

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, Sarah Choyke

Project No: 15268508.20000
 Job ID.: 680-88592-1
 Associated Samples: Refer to Attachment A (Sample Summary)
 Date(s) Collected: 03/20/2013
 Date: 04/04/2013
 Date: 04/10/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAH were not detected during the analysis of rinsate blank 032013-RB-Bowls+Spoons (680-88527-34).	
12. Are equipment/rinsate blanks associated with every sample? If	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which	

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

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
no, note in DV report.				occurs once per week per the client. A rinsate blank (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)		✓			
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> CV1360V-CS (680-88592-2) and CV1360V-CSD (680-88592-3) CV0715A-CS (680-88592-14) and CV0715A-CSD (680-88592-15) 	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> 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. 	✓			<ul style="list-style-type: none"> Initial Calibration: 02/22/2013, instrument BSMC5973 ICV: 02/22/2013 @ 14:06 CCV: 03/27/2013 @ 10:35 CCV: 03/28/2013 @ 11:59 CCV: 04/01/2013 @ 11:31 	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> 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)): <ul style="list-style-type: none"> 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 		✓		ICV 02/22/2013 @ 14:06, instrument BSMC5973: <ul style="list-style-type: none"> Chrysene @ -20.6%D (Lab: ≤ 35, Project: ≤ 20), 79.5%R Benzo(a)pyrene @ -21.7%D (Lab: ≤ 35, Project: ≤ 20), 78.5%R A negative bias is indicated by the ICV percent difference and both analytes were detected in all samples; therefore, J-flag detected chrysene and	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> ○ 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 $RF \geq 0.050$ (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ○ 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 				benzo(a)pyrene results.	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when $\%R > \text{Upper Control Limit (UCL)}$ and J/R-flag results when $\%R < \text{Lower Control Limit (LCL)}$.	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓			<ul style="list-style-type: none"> • Prep Batch 135754: 680-88527-21 (Batch sample), MS/MSD • Prep Batch 135800: 680-88592-19 (CV1156B-CS), 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> <ul style="list-style-type: none"> • 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 $< \text{LCL}$: J-Flag positive and UJ-flag non-detect results • MS and MSD $R\% > \text{UCL}$ (or 140): J-Flag positive results 		✓		CV1156B-CS (680-88592-19): Benzo(b)fluoranthene @ 50& 197%R (37-130). Qualification of data is not necessary, because MS %R is within specifications.	
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> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If $\%RPD > \text{UCL}$, J-flag positive result and UJ-flag non-detect result. 		✓		CV1156B-CS (680-88592-19): <ul style="list-style-type: none"> • Benzo(b)fluoranthene @ 53% RPD (≤ 40). J-Flag result • Indeno(1,2,3-cd)pyrene @ 44% RPD (≤ 40). J-Flag result 	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> • 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? <ul style="list-style-type: none"> • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample 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)	
<p>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.</p>					

Data Validation Checklist (Continued)

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: 680-88592-1
SDG: 68088592-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88592-1	CV1360U-CS	Solid	03/20/13 08:20	03/22/13 09:39
680-88592-2	CV1360V-CS	Solid	03/20/13 08:30	03/22/13 09:39
680-88592-3	CV1360V-CSD	Solid	03/20/13 08:30	03/22/13 09:39
680-88592-4	CV1360W-CS	Solid	03/20/13 08:50	03/22/13 09:39
680-88592-5	CV1360X-CS	Solid	03/20/13 09:00	03/22/13 09:39
680-88592-6	CV1360Y-CS	Solid	03/20/13 09:10	03/22/13 09:39
680-88592-7	CV1360Z-CS	Solid	03/20/13 09:25	03/22/13 09:39
680-88592-8	CV1360AA-CS	Solid	03/20/13 09:50	03/22/13 09:39
680-88592-9	CV1360BB-CS	Solid	03/20/13 09:45	03/22/13 09:39
680-88592-10	CV1360CC-CS	Solid	03/20/13 09:58	03/22/13 09:39
680-88592-11	CV1328A-CS	Solid	03/20/13 09:00	03/22/13 09:39
680-88592-12	CV1328B-CS	Solid	03/20/13 09:10	03/22/13 09:39
680-88592-13	CV0101A-CS	Solid	03/20/13 08:15	03/22/13 09:39
680-88592-14	CV0715A-CS	Solid	03/20/13 12:20	03/22/13 09:39
680-88592-15	CV0715A-CSD	Solid	03/20/13 12:20	03/22/13 09:39
680-88592-16	CV0862A-CS	Solid	03/20/13 13:00	03/22/13 09:39
680-88592-17	CV0862B-CS	Solid	03/20/13 13:15	03/22/13 09:39
680-88592-18	CV1156A-CS	Solid	03/20/13 13:25	03/22/13 09:39
680-88592-19	CV1156B-CS	Solid	03/20/13 13:45	03/22/13 09:39
680-88592-20	CV1240A-CS	Solid	03/20/13 14:50	03/22/13 09:39

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1360V-CS (680-88592-2)	RL	CV1360V-CSD (680-88592-3)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Anthracene	39	42	49	45	µg/kg	217.5	NA	10	87	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	240	40	260	43	µg/kg	207.5	8	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	250	52	310	56	µg/kg	270	NA	60	108	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	420	61	530	65	µg/kg	315	23	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	220	100	230	110	µg/kg	525	NA	10	210	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	160	40	200	43	µg/kg	207.5	NA	40	83	None, absolute difference ≤ 2x Avg RL
Chrysene	270	45	330	48	µg/kg	232.5	20	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	67	100	68	110	µg/kg	525	NA	1	210	None, absolute difference ≤ 2x Avg RL
Fluoranthene	370	100	530	110	µg/kg	525	NA	160	210	None, absolute difference ≤ 2x Avg RL
Fluorene		100	26	110	µg/kg	525	NA	26	210	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	170	100	170	110	µg/kg	525	NA	0	210	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	34	200	43	210	µg/kg	1025	NA	9	410	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	60	200	91	210	µg/kg	1025	NA	31	410	None, absolute difference ≤ 2x Avg RL
Naphthalene	55	200	83	210	µg/kg	1025	NA	28	410	None, absolute difference ≤ 2x Avg RL
Phenanthrene	170	40	210	43	µg/kg	207.5	NA	40	83	None, absolute difference ≤ 2x Avg RL
Pyrene	350	100	460	110	µg/kg	525	NA	110	210	None, absolute difference ≤ 2x Avg RL

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

Analyte	CV0715A-CS (680-88592-14)	RL	CV0715A-CSD (680-88592-15)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	6.6	48		54	µg/kg	255	NA	6.6	102	None, absolute difference ≤ 2x Avg RL
Anthracene	13	10		69	µg/kg	52.5	NA	56	21	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	47	9.6		190	µg/kg	51.5	NA	143	20.6	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)pyrene	49	12		150	µg/kg	65	NA	101	26	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	81	15		240	µg/kg	77.5	99	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	42	24		90	µg/kg	127.5	NA	48	51	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	41	9.6		110	µg/kg	51.5	NA	69	20.6	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	76	11		210	µg/kg	57.5	94	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	18	24		35	µg/kg	127.5	NA	17	51	None, absolute difference ≤ 2x Avg RL
Fluoranthene	62	24		410	µg/kg	127.5	NA	348	51	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene		24		21	µg/kg	127.5	NA	21	51	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	31	24		96	µg/kg	127.5	NA	65	51	J/UJ-flag, absolute difference > 2x Avg RL
1-Methylnaphthalene	44	48		37	µg/kg	255	NA	7	102	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	39	48		36	µg/kg	255	NA	3	102	None, absolute difference ≤ 2x Avg RL
Naphthalene	30	48		43	µg/kg	255	NA	13	102	None, absolute difference ≤ 2x Avg RL
Phenanthrene	66	9.6		330	µg/kg	51.5	133	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	69	24		370	µg/kg	127.5	NA	301	51	J/UJ-flag, absolute difference > 2x Avg RL

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

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

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

ATTACHMENT C
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-88592-1
SDG: 68088592-1

Job ID: 680-88592-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88592-1

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

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

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

RECEIPT

The samples were received on 03/22/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1360U-CS (680-88592-1), CV1360V-CS (680-88592-2), CV1360V-CSD (680-88592-3), CV1360W-CS (680-88592-4), CV1360X-CS (680-88592-5), CV1360Y-CS (680-88592-6), CV1360Z-CS (680-88592-7), CV1360AA-CS (680-88592-8), CV1360BB-CS (680-88592-9), CV1360CC-CS (680-88592-10), CV1328A-CS (680-88592-11), CV1328B-CS (680-88592-12), CV0101A-CS (680-88592-13), CV0715A-CS (680-88592-14), CV0715A-CSD (680-88592-15), CV0862A-CS (680-88592-16), CV0862B-CS (680-88592-17), CV1156A-CS (680-88592-18), CV1156B-CS (680-88592-19) and CV1240A-CS (680-88592-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/25/2013 and 03/26/2013 and analyzed on 03/27/2013, 03/28/2013 and 04/01/2013.

Samples CV1360U-CS (680-88592-1)[4X], CV1360V-CS (680-88592-2)[4X], CV1360V-CSD (680-88592-3)[4X], CV1360Y-CS (680-88592-6)[4X], CV1360AA-CS (680-88592-8)[4X], CV1360BB-CS (680-88592-9)[4X], CV1328A-CS (680-88592-11)[4X], CV1328B-CS (680-88592-12)[4X], CV0862A-CS (680-88592-16)[4X], CV1156A-CS (680-88592-18)[4X], CV1156B-CS (680-88592-19)[4X] and CV1240A-CS (680-88592-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MSD of sample CV1156B-CS (680-88592-19) in batch 660-135830. Benzo[b]fluoranthene and Indeno[1,2,3-cd]pyrene exceeded the rpd limit.

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: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360U-CS

Lab Sample ID: 680-88592-1

Date Collected: 03/20/13 08:20

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 72.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Acenaphthylene	220	U	220	27	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Anthracene	46	U	46	23	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Benzo[a]anthracene	140		44	21	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Benzo[a]pyrene	100	J	57	28	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Benzo[b]fluoranthene	150		67	33	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Benzo[g,h,i]perylene	93	J	110	24	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Benzo[k]fluoranthene	58		44	20	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Chrysene	130	J	49	25	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Dibenz(a,h)anthracene	110	U	110	22	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Fluoranthene	160		110	22	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Fluorene	24	J	110	22	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Indeno[1,2,3-cd]pyrene	82	J	110	39	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
1-Methylnaphthalene	41	J	220	24	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
2-Methylnaphthalene	75	J	220	39	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Naphthalene	55	J	220	24	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Phenanthrene	150		44	21	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Pyrene	160		110	20	ug/Kg	☐	03/25/13 16:58	03/28/13 17:12	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	93		30 - 130				03/25/13 16:58	03/28/13 17:12	4

Client Sample ID: CV1360V-CS

Lab Sample ID: 680-88592-2

Date Collected: 03/20/13 08:30

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Acenaphthylene	200	U	200	25	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Anthracene	39	J	42	21	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Benzo[a]anthracene	240		40	20	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Benzo[a]pyrene	250	J	52	26	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Benzo[b]fluoranthene	420		61	31	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Benzo[g,h,i]perylene	220		100	22	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Benzo[k]fluoranthene	160		40	18	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Chrysene	270	J	45	23	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Dibenz(a,h)anthracene	67	J	100	21	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Fluoranthene	370		100	20	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Fluorene	100	U	100	21	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Indeno[1,2,3-cd]pyrene	170		100	36	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
1-Methylnaphthalene	34	J	200	22	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
2-Methylnaphthalene	60	J	200	36	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Naphthalene	55	J	200	22	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Phenanthrene	170		40	20	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Pyrene	350		100	19	ug/Kg	☐	03/25/13 16:58	03/28/13 17:31	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	85		30 - 130				03/25/13 16:58	03/28/13 17:31	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360V-CSD

Lab Sample ID: 680-88592-3

Date Collected: 03/20/13 08:30

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 75.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Acenaphthylene	210	U	210	27	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Anthracene	49		45	22	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Benzo[a]anthracene	260		43	21	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Benzo[a]pyrene	310	J	56	28	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Benzo[b]fluoranthene	530		65	33	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Benzo[g,h,i]perylene	230		110	24	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Benzo[k]fluoranthene	200		43	19	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Chrysene	330	J	48	24	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Dibenz(a,h)anthracene	68	J	110	22	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Fluoranthene	530		110	21	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Fluorene	26	J	110	22	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Indeno[1,2,3-cd]pyrene	170		110	38	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
1-Methylnaphthalene	43	J	210	24	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
2-Methylnaphthalene	91	J	210	38	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Naphthalene	83	J	210	24	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Phenanthrene	210		43	21	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Pyrene	460		110	20	ug/Kg	☐	03/25/13 16:58	03/28/13 17:49	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		30 - 130				03/25/13 16:58	03/28/13 17:49	4

Client Sample ID: CV1360W-CS

Lab Sample ID: 680-88592-4

Date Collected: 03/20/13 08:50

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 60.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	72	J	160	33	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Acenaphthylene	9.2	J	65	8.2	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Anthracene	82		14	6.9	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Benzo[a]anthracene	350		13	6.4	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Benzo[a]pyrene	320	J	17	8.5	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Benzo[b]fluoranthene	530		20	10	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Benzo[g,h,i]perylene	220		33	7.2	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Benzo[k]fluoranthene	230		13	5.9	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Chrysene	410	J	15	7.3	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Dibenz(a,h)anthracene	73		33	6.7	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Fluoranthene	840		33	6.5	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Fluorene	54		33	6.7	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Indeno[1,2,3-cd]pyrene	210		33	12	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
1-Methylnaphthalene	27	J	65	7.2	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
2-Methylnaphthalene	35	J	65	12	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Naphthalene	63	J	65	7.2	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Phenanthrene	530		13	6.4	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Pyrene	660		33	6.0	ug/Kg	☐	03/25/13 16:58	03/28/13 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130				03/25/13 16:58	03/28/13 18:08	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360X-CS

Lab Sample ID: 680-88592-5

Date Collected: 03/20/13 09:00

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 66.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Acenaphthylene	59	U	59	7.4	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Anthracene	11	J	12	6.2	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Benzo[a]anthracene	59		12	5.8	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Benzo[a]pyrene	59	J	15	7.7	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Benzo[b]fluoranthene	110		18	9.0	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Benzo[g,h,i]perylene	35		30	6.5	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Benzo[k]fluoranthene	25		12	5.3	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Chrysene	70	J	13	6.7	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Dibenz(a,h)anthracene	12	J	30	6.1	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Fluoranthene	100		30	5.9	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Fluorene	7.4	J	30	6.1	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Indeno[1,2,3-cd]pyrene	38		30	10	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
1-Methylnaphthalene	11	J	59	6.5	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
2-Methylnaphthalene	13	J	59	10	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Naphthalene	20	J	59	6.5	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Phenanthrene	59		12	5.8	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Pyrene	96		30	5.5	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	64		30 - 130				03/25/13 16:58	03/28/13 18:26	1

Client Sample ID: CV1360Y-CS

Lab Sample ID: 680-88592-6

Date Collected: 03/20/13 09:10

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 68.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	300		140	28	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Acenaphthylene	22	J	57	7.1	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Anthracene	420		12	6.0	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Benzo[a]anthracene	2100		11	5.6	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Benzo[a]pyrene	1800	J	15	7.4	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Benzo[b]fluoranthene	3100		17	8.7	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Benzo[g,h,i]perylene	1000		28	6.3	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Benzo[k]fluoranthene	1200		11	5.1	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Chrysene	2100	J	13	6.4	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Dibenz(a,h)anthracene	350		28	5.8	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Fluorene	250		28	5.8	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Indeno[1,2,3-cd]pyrene	1100		28	10	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
1-Methylnaphthalene	58		57	6.3	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
2-Methylnaphthalene	92		57	10	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Naphthalene	160		57	6.3	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Phenanthrene	2900		11	5.6	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Pyrene	3700		28	5.3	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	65		30 - 130				03/25/13 16:58	03/28/13 18:44	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360Y-CS

Lab Sample ID: 680-88592-6

Date Collected: 03/20/13 09:10

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 68.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	4000		110	23	ug/Kg	☐	03/25/13 16:58	04/01/13 14:33	4

Client Sample ID: CV1360Z-CS

Lab Sample ID: 680-88592-7

Date Collected: 03/20/13 09:25

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	38	J	130	26	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Acenaphthylene	18	J	51	6.4	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Anthracene	88		11	5.4	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Benzo[a]anthracene	550		10	5.0	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Benzo[a]pyrene	480	J	13	6.7	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Benzo[b]fluoranthene	820		16	7.8	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Benzo[g,h,i]perylene	300		26	5.6	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Benzo[k]fluoranthene	280		10	4.6	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Chrysene	540	J	12	5.8	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Dibenz(a,h)anthracene	93		26	5.3	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Fluoranthene	1000		26	5.1	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Fluorene	44		26	5.3	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Indeno[1,2,3-cd]pyrene	290		26	9.1	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
1-Methylnaphthalene	29	J	51	5.6	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
2-Methylnaphthalene	39	J	51	9.1	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Naphthalene	39	J	51	5.6	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Phenanthrene	440		10	5.0	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1
Pyrene	870		26	4.7	ug/Kg	☐	03/25/13 16:58	03/28/13 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130	03/25/13 16:58	03/28/13 19:03	1

Client Sample ID: CV1360AA-CS

Lab Sample ID: 680-88592-8

Date Collected: 03/20/13 09:50

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
Acenaphthylene	44	J	200	24	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
Anthracene	37	J	41	21	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
Benzo[a]anthracene	190		39	19	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
Benzo[a]pyrene	250	J	51	25	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
Benzo[b]fluoranthene	320		60	30	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
Benzo[g,h,i]perylene	200		98	22	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
Benzo[k]fluoranthene	180		39	18	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
Chrysene	260	J	44	22	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
Dibenz(a,h)anthracene	78	J	98	20	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
Fluoranthene	270		98	20	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
Fluorene	27	J	98	20	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
Indeno[1,2,3-cd]pyrene	160		98	35	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4
1-Methylnaphthalene	88	J	200	22	ug/Kg	☐	03/25/13 16:58	03/28/13 19:21	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360AA-CS

Lab Sample ID: 680-88592-8

Date Collected: 03/20/13 09:50

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	120	J	200	35	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:21	4
Naphthalene	64	J	200	22	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:21	4
Phenanthrene	150		39	19	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:21	4
Pyrene	270		98	18	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:21	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	89		30 - 130				03/25/13 16:58	03/28/13 19:21	4

Client Sample ID: CV1360BB-CS

Lab Sample ID: 680-88592-9

Date Collected: 03/20/13 09:45

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 69.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	570	U	570	110	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Acenaphthylene	100	J	230	29	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Anthracene	98		48	24	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Benzo[a]anthracene	490		46	22	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Benzo[a]pyrene	670	J	60	30	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Benzo[b]fluoranthene	960		70	35	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Benzo[g,h,i]perylene	580		110	25	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Benzo[k]fluoranthene	360		46	21	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Chrysene	660	J	52	26	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Dibenz(a,h)anthracene	140		110	23	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Fluoranthene	1000		110	23	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Fluorene	36	J	110	23	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Indeno[1,2,3-cd]pyrene	520		110	41	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
1-Methylnaphthalene	62	J	230	25	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
2-Methylnaphthalene	70	J	230	41	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Naphthalene	120	J	230	25	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Phenanthrene	670		46	22	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
Pyrene	1100		110	21	ug/Kg	⊖	03/25/13 16:58	03/28/13 19:39	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	98		30 - 130				03/25/13 16:58	03/28/13 19:39	4

Client Sample ID: CV1360CC-CS

Lab Sample ID: 680-88592-10

Date Collected: 03/20/13 09:58

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	J	130	26	ug/Kg	⊖	03/26/13 16:07	03/27/13 13:15	1
Acenaphthylene	14	J	52	6.4	ug/Kg	⊖	03/26/13 16:07	03/27/13 13:15	1
Anthracene	87		11	5.4	ug/Kg	⊖	03/26/13 16:07	03/27/13 13:15	1
Benzo[a]anthracene	310		10	5.0	ug/Kg	⊖	03/26/13 16:07	03/27/13 13:15	1
Benzo[a]pyrene	260	J	13	6.7	ug/Kg	⊖	03/26/13 16:07	03/27/13 13:15	1
Benzo[b]fluoranthene	480		16	7.9	ug/Kg	⊖	03/26/13 16:07	03/27/13 13:15	1
Benzo[g,h,i]perylene	190		26	5.7	ug/Kg	⊖	03/26/13 16:07	03/27/13 13:15	1
Benzo[k]fluoranthene	170		10	4.6	ug/Kg	⊖	03/26/13 16:07	03/27/13 13:15	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360CC-CS

Lab Sample ID: 680-88592-10

Date Collected: 03/20/13 09:58

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	330	J	12	5.8	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:15	1
Dibenz(a,h)anthracene	65		26	5.3	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:15	1
Fluoranthene	600		26	5.2	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:15	1
Fluorene	40		26	5.3	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:15	1
Indeno[1,2,3-cd]pyrene	140		26	9.1	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:15	1
1-Methylnaphthalene	52		52	5.7	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:15	1
2-Methylnaphthalene	59		52	9.1	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:15	1
Naphthalene	57		52	5.7	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:15	1
Phenanthrene	370		10	5.0	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:15	1
Pyrene	510		26	4.8	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/26/13 16:07	03/27/13 13:15	1

Client Sample ID: CV1328A-CS

Lab Sample ID: 680-88592-11

Date Collected: 03/20/13 09:00

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Acenaphthylene	31	J	200	25	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Anthracene	62		41	21	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Benzo[a]anthracene	280		39	19	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Benzo[a]pyrene	260	J	51	25	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Benzo[b]fluoranthene	400		60	30	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Benzo[g,h,i]perylene	170		98	22	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Benzo[k]fluoranthene	170		39	18	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Chrysene	280	J	44	22	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Dibenz(a,h)anthracene	98	U	98	20	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Fluoranthene	420		98	20	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Fluorene	39	J	98	20	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Indeno[1,2,3-cd]pyrene	120		98	35	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
1-Methylnaphthalene	73	J	200	22	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
2-Methylnaphthalene	58	J	200	35	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Naphthalene	48	J	200	22	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Phenanthrene	260		39	19	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Pyrene	470		98	18	ug/Kg	⊛	03/25/13 16:58	03/28/13 19:57	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		30 - 130				03/25/13 16:58	03/28/13 19:57	4

Client Sample ID: CV1328B-CS

Lab Sample ID: 680-88592-12

Date Collected: 03/20/13 09:10

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.2

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	⊛	03/25/13 16:58	03/28/13 20:16	4
Acenaphthylene	200	U	200	26	ug/Kg	⊛	03/25/13 16:58	03/28/13 20:16	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1328B-CS

Lab Sample ID: 680-88592-12

Date Collected: 03/20/13 09:10

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Anthracene	34	J	43	21	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Benzo[a]anthracene	260		41	20	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Benzo[a]pyrene	240	J	53	27	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Benzo[b]fluoranthene	430		62	31	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Benzo[g,h,i]perylene	230		100	22	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Benzo[k]fluoranthene	200		41	18	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Chrysene	300	J	46	23	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Dibenz(a,h)anthracene	70	J	100	21	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Fluoranthene	290		100	20	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Fluorene	100	U	100	21	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Indeno[1,2,3-cd]pyrene	160		100	36	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
1-Methylnaphthalene	100	J	200	22	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
2-Methylnaphthalene	110	J	200	36	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Naphthalene	79	J	200	22	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Phenanthrene	170		41	20	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Pyrene	240		100	19	ug/Kg	☉	03/25/13 16:58	03/28/13 20:16	4	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
<i>o</i> -Terphenyl	89		30 - 130				03/25/13 16:58	03/28/13 20:16	4	

Client Sample ID: CV0101A-CS

Lab Sample ID: 680-88592-13

Date Collected: 03/20/13 08:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 61.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	160	U	160	33	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Acenaphthylene	65	U	65	8.1	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Anthracene	14	U	14	6.8	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Benzo[a]anthracene	33		13	6.4	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Benzo[a]pyrene	25	J	17	8.5	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Benzo[b]fluoranthene	38		20	9.9	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Benzo[g,h,i]perylene	22	J	33	7.2	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Benzo[k]fluoranthene	19		13	5.9	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Chrysene	48	J	15	7.3	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Dibenz(a,h)anthracene	9.2	J	33	6.7	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Fluoranthene	45		33	6.5	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Fluorene	33	U	33	6.7	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Indeno[1,2,3-cd]pyrene	16	J	33	12	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
1-Methylnaphthalene	59	J	65	7.2	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
2-Methylnaphthalene	67		65	12	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Naphthalene	72		65	7.2	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Phenanthrene	53		13	6.4	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Pyrene	40		33	6.0	ug/Kg	☉	03/25/13 16:58	03/28/13 20:34	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
<i>o</i> -Terphenyl	62		30 - 130				03/25/13 16:58	03/28/13 20:34	1	

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV0715A-CS

Lab Sample ID: 680-88592-14

Date Collected: 03/20/13 12:20

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Acenaphthylene	6.6	J	48	6.0	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Anthracene	13	J	10	5.0	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Benzo[a]anthracene	47	J	9.6	4.7	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Benzo[a]pyrene	49	J	12	6.2	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Benzo[b]fluoranthene	81	J	15	7.3	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Benzo[g,h,i]perylene	42	J	24	5.3	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Benzo[k]fluoranthene	41	J	9.6	4.3	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Chrysene	76	J	11	5.4	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Dibenz(a,h)anthracene	18	J	24	4.9	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Fluoranthene	62	J	24	4.8	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Fluorene	24	U	24	4.9	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Indeno[1,2,3-cd]pyrene	31	J	24	8.5	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
1-Methylnaphthalene	44	J	48	5.3	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
2-Methylnaphthalene	39	J	48	8.5	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Naphthalene	30	J	48	5.3	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Phenanthrene	66	J	9.6	4.7	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
Pyrene	69	J	24	4.4	ug/Kg	☐	03/25/13 16:58	03/28/13 20:52	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	53		30 - 130				03/25/13 16:58	03/28/13 20:52	1

Client Sample ID: CV0715A-CSD

Lab Sample ID: 680-88592-15

Date Collected: 03/20/13 12:20

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 73.1

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	27	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Acenaphthylene	54	U	54	6.7	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Anthracene	69	J	11	5.6	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Benzo[a]anthracene	190	J	11	5.2	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Benzo[a]pyrene	150	J	14	7.0	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Benzo[b]fluoranthene	240	J	16	8.2	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Benzo[g,h,i]perylene	90	J	27	5.9	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Benzo[k]fluoranthene	110	J	11	4.8	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Chrysene	210	J	12	6.0	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Dibenz(a,h)anthracene	35	J	27	5.5	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Fluoranthene	410	J	27	5.4	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Fluorene	21	J	27	5.5	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Indeno[1,2,3-cd]pyrene	96	J	27	9.5	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
1-Methylnaphthalene	37	J	54	5.9	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
2-Methylnaphthalene	36	J	54	9.5	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Naphthalene	43	J	54	5.9	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Phenanthrene	330	J	11	5.2	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
Pyrene	370	J	27	5.0	ug/Kg	☐	03/25/13 16:58	03/28/13 21:11	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	73		30 - 130				03/25/13 16:58	03/28/13 21:11	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV0862A-CS

Lab Sample ID: 680-88592-16

Date Collected: 03/20/13 13:00

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.9

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	⊛	03/25/13 16:58	03/28/13 21:29	4
Acenaphthylene	210	U	210	26	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Anthracene	44	U	44	22	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Benzo[a]anthracene	180		42	20	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Benzo[a]pyrene	170	J	54	27	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Benzo[b]fluoranthene	200		64	32	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Benzo[g,h,i]perylene	140		100	23	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Benzo[k]fluoranthene	110		42	19	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Chrysene	240	J	47	23	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Dibenz(a,h)anthracene	83	J	100	21	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Fluoranthene	240		100	21	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Fluorene	100	U	100	21	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Indeno[1,2,3-cd]pyrene	100		100	37	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
1-Methylnaphthalene	85	J	210	23	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
2-Methylnaphthalene	120	J	210	37	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Naphthalene	68	J	210	23	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Phenanthrene	170		42	20	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
Pyrene	260		100	19	ug/Kg	⊛	03/25/13 16:58	03/28/13 21:29	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	78		30 - 130				03/25/13 16:58	03/28/13 21:29	4

Client Sample ID: CV0862B-CS

Lab Sample ID: 680-88592-17

Date Collected: 03/20/13 13:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 67.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Acenaphthylene	13	J	58	7.2	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Anthracene	10	J	12	6.1	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Benzo[a]anthracene	64		12	5.6	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Benzo[a]pyrene	49	J	15	7.5	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Benzo[b]fluoranthene	86		18	8.8	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Benzo[g,h,i]perylene	31		29	6.4	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Benzo[k]fluoranthene	33		12	5.2	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Chrysene	48	J	13	6.5	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Dibenz(a,h)anthracene	8.9	J	29	5.9	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Fluoranthene	73		29	5.8	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Fluorene	29	U	29	5.9	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Indeno[1,2,3-cd]pyrene	30		29	10	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
1-Methylnaphthalene	45	J	58	6.4	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
2-Methylnaphthalene	40	J	58	10	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Naphthalene	55	J	58	6.4	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Phenanthrene	60		12	5.6	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
Pyrene	64		29	5.4	ug/Kg	⊛	03/26/13 16:07	03/27/13 13:34	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	69		30 - 130				03/26/13 16:07	03/27/13 13:34	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1156A-CS

Lab Sample ID: 680-88592-18

Date Collected: 03/20/13 13:25

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 71.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Acenaphthylene	220	U	220	28	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Anthracene	47	U	47	23	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Benzo[a]anthracene	160		45	22	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Benzo[a]pyrene	160	J	58	29	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Benzo[b]fluoranthene	230		68	34	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Benzo[g,h,i]perylene	120		110	24	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Benzo[k]fluoranthene	110		45	20	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Chrysene	170	J	50	25	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Dibenz(a,h)anthracene	60	J	110	23	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Fluoranthene	170		110	22	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Fluorene	110	U	110	23	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Indeno[1,2,3-cd]pyrene	110		110	40	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
1-Methylnaphthalene	58	J	220	24	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
2-Methylnaphthalene	64	J	220	40	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Naphthalene	75	J	220	24	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Phenanthrene	120		45	22	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Pyrene	160		110	21	ug/Kg	☐	03/26/13 16:07	03/27/13 13:52	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		30 - 130				03/26/13 16:07	03/27/13 13:52	4

Client Sample ID: CV1156B-CS

Lab Sample ID: 680-88592-19

Date Collected: 03/20/13 13:45

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 66.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	600	U	600	120	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Acenaphthylene	31	J	240	30	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Anthracene	75		50	25	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Benzo[a]anthracene	650		48	23	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Benzo[a]pyrene	740	J	63	31	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Benzo[b]fluoranthene	1500	fJ	73	37	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Benzo[g,h,i]perylene	800		120	26	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Benzo[k]fluoranthene	410		48	22	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Chrysene	670	J	54	27	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Dibenz(a,h)anthracene	270		120	25	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Fluoranthene	720		120	24	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Fluorene	120	U	120	25	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Indeno[1,2,3-cd]pyrene	750	fJ	120	43	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
1-Methylnaphthalene	60	J	240	26	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
2-Methylnaphthalene	110	J	240	43	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Naphthalene	160	J	240	26	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Phenanthrene	370		48	23	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Pyrene	690		120	22	ug/Kg	☐	03/26/13 16:07	03/27/13 12:20	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/26/13 16:07	03/27/13 12:20	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1240A-CS

Lab Sample ID: 680-88592-20

Date Collected: 03/20/13 14:50

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Acenaphthylene	36	J	210	26	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Anthracene	98		44	22	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Benzo[a]anthracene	300		42	21	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Benzo[a]pyrene	260	J	55	27	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Benzo[b]fluoranthene	450		64	32	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Benzo[g,h,i]perylene	190		110	23	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Benzo[k]fluoranthene	150		42	19	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Chrysene	330	J	47	24	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Dibenz[a,h]anthracene	68	J	110	22	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Fluoranthene	440		110	21	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Fluorene	39	J	110	22	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Indeno[1,2,3-cd]pyrene	140		110	37	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
1-Methylnaphthalene	98	J	210	23	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
2-Methylnaphthalene	110	J	210	37	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Naphthalene	94	J	210	23	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Phenanthrene	340		42	21	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
Pyrene	420		110	19	ug/Kg	⊛	03/26/13 16:07	03/27/13 14:11	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	75		30 - 130				03/26/13 16:07	03/27/13 14:11	4



TestAmerica Savannah

ANALYTICAL REPORT

Job Number: 680-88592-1

SDG Number: 68088592-1

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.
Bernard Kirkland
Project Manager I
4/3/2013 11:46 AM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

04/03/2013

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: 680-88592-1

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

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

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

RECEIPT

The samples were received on 03/22/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1360U-CS (680-88592-1), CV1360V-CS (680-88592-2), CV1360V-CSD (680-88592-3), CV1360W-CS (680-88592-4), CV1360X-CS (680-88592-5), CV1360Y-CS (680-88592-6), CV1360Z-CS (680-88592-7), CV1360AA-CS (680-88592-8), CV1360BB-CS (680-88592-9), CV1360CC-CS (680-88592-10), CV1328A-CS (680-88592-11), CV1328B-CS (680-88592-12), CV0101A-CS (680-88592-13), CV0715A-CS (680-88592-14), CV0715A-CSD (680-88592-15), CV0862A-CS (680-88592-16), CV0862B-CS (680-88592-17), CV1156A-CS (680-88592-18), CV1156B-CS (680-88592-19) and CV1240A-CS (680-88592-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/25/2013 and 03/26/2013 and analyzed on 03/27/2013, 03/28/2013 and 04/01/2013.

Samples CV1360U-CS (680-88592-1)[4X], CV1360V-CS (680-88592-2)[4X], CV1360V-CSD (680-88592-3)[4X], CV1360Y-CS (680-88592-6)[4X], CV1360AA-CS (680-88592-8)[4X], CV1360BB-CS (680-88592-9)[4X], CV1328A-CS (680-88592-11)[4X], CV1328B-CS (680-88592-12)[4X], CV0862A-CS (680-88592-16)[4X], CV1156A-CS (680-88592-18)[4X], CV1156B-CS (680-88592-19)[4X] and CV1240A-CS (680-88592-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MSD of sample CV1156B-CS (680-88592-19) in batch 660-135830. Benzo[b]fluoranthene and Indeno[1,2,3-cd]pyrene exceeded the rpd limit.

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: 680-88592-1

Sdg Number: 68088592-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88592-1	CV1360U-CS	Solid	03/20/2013 0820	03/22/2013 0939
680-88592-2	CV1360V-CS	Solid	03/20/2013 0830	03/22/2013 0939
680-88592-3	CV1360V-CSD	Solid	03/20/2013 0830	03/22/2013 0939
680-88592-4	CV1360W-CS	Solid	03/20/2013 0850	03/22/2013 0939
680-88592-5	CV1360X-CS	Solid	03/20/2013 0900	03/22/2013 0939
680-88592-6	CV1360Y-CS	Solid	03/20/2013 0910	03/22/2013 0939
680-88592-7	CV1360Z-CS	Solid	03/20/2013 0925	03/22/2013 0939
680-88592-8	CV1360AA-CS	Solid	03/20/2013 0950	03/22/2013 0939
680-88592-9	CV1360BB-CS	Solid	03/20/2013 0945	03/22/2013 0939
680-88592-10	CV1360CC-CS	Solid	03/20/2013 0958	03/22/2013 0939
680-88592-11	CV1328A-CS	Solid	03/20/2013 0900	03/22/2013 0939
680-88592-12	CV1328B-CS	Solid	03/20/2013 0910	03/22/2013 0939
680-88592-13	CV0101A-CS	Solid	03/20/2013 0815	03/22/2013 0939
680-88592-14	CV0715A-CS	Solid	03/20/2013 1220	03/22/2013 0939
680-88592-15	CV0715A-CSD	Solid	03/20/2013 1220	03/22/2013 0939
680-88592-16	CV0862A-CS	Solid	03/20/2013 1300	03/22/2013 0939
680-88592-17	CV0862B-CS	Solid	03/20/2013 1315	03/22/2013 0939
680-88592-18	CV1156A-CS	Solid	03/20/2013 1325	03/22/2013 0939
680-88592-19	CV1156B-CS	Solid	03/20/2013 1345	03/22/2013 0939
680-88592-19MS	CV1156B-CS	Solid	03/20/2013 1345	03/22/2013 0939
680-88592-19MSD	CV1156B-CS	Solid	03/20/2013 1345	03/22/2013 0939
680-88592-20	CV1240A-CS	Solid	03/20/2013 1450	03/22/2013 0939

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-1
Sdg Number: 68088592-1

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-1

Sdg Number: 68088592-1

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-1

Sdg Number: 68088592-1

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

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-1

Sdg Number: 68088592-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS Semi VOA					
Prep Batch: 660-135754					
LCS 660-135754/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135754/1-A	Method Blank	T	Solid	3546	
680-88527-A-21-B MS	Matrix Spike	T	Solid	3546	
680-88527-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88592-1	CV1360U-CS	T	Solid	3546	
680-88592-2	CV1360V-CS	T	Solid	3546	
680-88592-3	CV1360V-CSD	T	Solid	3546	
680-88592-4	CV1360W-CS	T	Solid	3546	
680-88592-5	CV1360X-CS	T	Solid	3546	
680-88592-6	CV1360Y-CS	T	Solid	3546	
680-88592-6DL	CV1360Y-CS	T	Solid	3546	
680-88592-7	CV1360Z-CS	T	Solid	3546	
680-88592-8	CV1360AA-CS	T	Solid	3546	
680-88592-9	CV1360BB-CS	T	Solid	3546	
680-88592-11	CV1328A-CS	T	Solid	3546	
680-88592-12	CV1328B-CS	T	Solid	3546	
680-88592-13	CV0101A-CS	T	Solid	3546	
680-88592-14	CV0715A-CS	T	Solid	3546	
680-88592-15	CV0715A-CSD	T	Solid	3546	
680-88592-16	CV0862A-CS	T	Solid	3546	
Prep Batch: 660-135800					
LCS 660-135800/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135800/1-A	Method Blank	T	Solid	3546	
680-88592-10	CV1360CC-CS	T	Solid	3546	
680-88592-17	CV0862B-CS	T	Solid	3546	
680-88592-18	CV1156A-CS	T	Solid	3546	
680-88592-19	CV1156B-CS	T	Solid	3546	
680-88592-19MS	Matrix Spike	T	Solid	3546	
680-88592-19MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88592-20	CV1240A-CS	T	Solid	3546	
Analysis Batch:660-135830					
LCS 660-135800/2-A	Lab Control Sample	T	Solid	8270C LL	660-135800
MB 660-135800/1-A	Method Blank	T	Solid	8270C LL	660-135800
680-88592-10	CV1360CC-CS	T	Solid	8270C LL	660-135800
680-88592-17	CV0862B-CS	T	Solid	8270C LL	660-135800
680-88592-18	CV1156A-CS	T	Solid	8270C LL	660-135800
680-88592-19	CV1156B-CS	T	Solid	8270C LL	660-135800
680-88592-19MS	Matrix Spike	T	Solid	8270C LL	660-135800
680-88592-19MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135800
680-88592-20	CV1240A-CS	T	Solid	8270C LL	660-135800

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-1

Sdg Number: 68088592-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-135902					
LCS 660-135754/2-A	Lab Control Sample	T	Solid	8270C LL	660-135754
MB 660-135754/1-A	Method Blank	T	Solid	8270C LL	660-135754
680-88527-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-135754
680-88527-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135754
680-88592-1	CV1360U-CS	T	Solid	8270C LL	660-135754
680-88592-2	CV1360V-CS	T	Solid	8270C LL	660-135754
680-88592-3	CV1360V-CSD	T	Solid	8270C LL	660-135754
680-88592-4	CV1360W-CS	T	Solid	8270C LL	660-135754
680-88592-5	CV1360X-CS	T	Solid	8270C LL	660-135754
680-88592-6	CV1360Y-CS	T	Solid	8270C LL	660-135754
680-88592-7	CV1360Z-CS	T	Solid	8270C LL	660-135754
680-88592-8	CV1360AA-CS	T	Solid	8270C LL	660-135754
680-88592-9	CV1360BB-CS	T	Solid	8270C LL	660-135754
680-88592-11	CV1328A-CS	T	Solid	8270C LL	660-135754
680-88592-12	CV1328B-CS	T	Solid	8270C LL	660-135754
680-88592-13	CV0101A-CS	T	Solid	8270C LL	660-135754
680-88592-14	CV0715A-CS	T	Solid	8270C LL	660-135754
680-88592-15	CV0715A-CSD	T	Solid	8270C LL	660-135754
680-88592-16	CV0862A-CS	T	Solid	8270C LL	660-135754
Analysis Batch:660-135996					
680-88592-6DL	CV1360Y-CS	T	Solid	8270C LL	660-135754

Report Basis

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-1

Sdg Number: 68088592-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135737					
MB 660-135737/1	Method Blank	T	Solid	Moisture	
680-88592-5	CV1360X-CS	T	Solid	Moisture	
680-88592-6	CV1360Y-CS	T	Solid	Moisture	
680-88592-7	CV1360Z-CS	T	Solid	Moisture	
680-88592-8	CV1360AA-CS	T	Solid	Moisture	
680-88592-9	CV1360BB-CS	T	Solid	Moisture	
680-88592-10	CV1360CC-CS	T	Solid	Moisture	
680-88592-11	CV1328A-CS	T	Solid	Moisture	
680-88592-12	CV1328B-CS	T	Solid	Moisture	
680-88592-13	CV0101A-CS	T	Solid	Moisture	
680-88592-14	CV0715A-CS	T	Solid	Moisture	
680-88592-15	CV0715A-CSD	T	Solid	Moisture	
680-88592-16	CV0862A-CS	T	Solid	Moisture	
680-88592-17	CV0862B-CS	T	Solid	Moisture	
680-88592-18	CV1156A-CS	T	Solid	Moisture	
680-88592-19	CV1156B-CS	T	Solid	Moisture	
680-88592-19MS	Matrix Spike	T	Solid	Moisture	
680-88592-19MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88592-20	CV1240A-CS	T	Solid	Moisture	
680-88592-A-21 MS	Matrix Spike	T	Solid	Moisture	
680-88592-A-21 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
Analysis Batch:660-135743					
LCS 660-135743/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-135743/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-88592-1	CV1360U-CS	T	Solid	Moisture	
680-88592-2	CV1360V-CS	T	Solid	Moisture	
680-88592-3	CV1360V-CSD	T	Solid	Moisture	
680-88592-4	CV1360W-CS	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Instrument 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: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:13

Lab Sample ID: IC 660-134776/4 Client Sample ID: _____Date Analyzed: 02/22/13 12:16 Lab File ID: 1CB22004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.22	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/5 Client Sample ID: _____Date Analyzed: 02/22/13 12:34 Lab File ID: 1CB22005.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: IC 660-134776/6 Client Sample ID: _____Date Analyzed: 02/22/13 12:53 Lab File ID: 1CB22006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:14

Lab Sample ID: ICIS 660-134776/7 Client Sample ID: _____Date Analyzed: 02/22/13 13:11 Lab File ID: 1CB22007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:11

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1

SDG No.: 68088592-1

Instrument ID: BSMC5973 Analysis Batch Number: 134776

Lab Sample ID: IC 660-134776/8 Client Sample ID: _____

Date Analyzed: 02/22/13 13:29 Lab File ID: 1CB22008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: IC 660-134776/9 Client Sample ID: _____

Date Analyzed: 02/22/13 13:48 Lab File ID: 1CB22009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/22/13 14:15

Lab Sample ID: ICV 660-134776/10 Client Sample ID: _____

Date Analyzed: 02/22/13 14:06 Lab File ID: 1CB22010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.23	Split Peak	cantins	02/22/13 14:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Instrument ID: BSMC5973 Analysis Batch Number: 135830Lab Sample ID: CCVIS 660-135830/3 Client Sample ID: _____Date Analyzed: 03/27/13 10:35 Lab File ID: 1CC27003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/27/13 10:50

Lab Sample ID: LCS 660-135800/2-A Client Sample ID: _____Date Analyzed: 03/27/13 11:44 Lab File ID: 1CC27006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/27/13 12:18

Lab Sample ID: 680-88592-19 Client Sample ID: CV1156B-CSDate Analyzed: 03/27/13 12:20 Lab File ID: 1CC27008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/27/13 13:34

Lab Sample ID: 680-88592-19 MS Client Sample ID: CV1156B-CS MSDate Analyzed: 03/27/13 12:39 Lab File ID: 1CC27009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	03/27/13 13:34

Lab Sample ID: 680-88592-19 MSD Client Sample ID: CV1156B-CS MSDDate Analyzed: 03/27/13 12:57 Lab File ID: 1CC27010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/27/13 13:35

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Instrument ID: BSMC5973 Analysis Batch Number: 135830Lab Sample ID: 680-88592-10 Client Sample ID: CV1360CC-CSDate Analyzed: 03/27/13 13:15 Lab File ID: 1CC27011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 11:09

Lab Sample ID: 680-88592-17 Client Sample ID: CV0862B-CSDate Analyzed: 03/27/13 13:34 Lab File ID: 1CC27012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.56	Analyte Misidentified by the Data System	cantins	04/01/13 11:10
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 11:10

Lab Sample ID: 680-88592-18 Client Sample ID: CV1156A-CSDate Analyzed: 03/27/13 13:52 Lab File ID: 1CC27013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 11:11

Lab Sample ID: 680-88592-20 Client Sample ID: CV1240A-CSDate Analyzed: 03/27/13 14:11 Lab File ID: 1CC27014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/01/13 11:13
Dibenz(a,h)anthracene	10.05	Baseline Event	cantins	04/01/13 11:13
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	04/01/13 11:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Instrument ID: BSMC5973 Analysis Batch Number: 135902Lab Sample ID: CCVIS 660-135902/3 Client Sample ID: _____Date Analyzed: 03/28/13 11:59 Lab File ID: 1CC28003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	03/28/13 12:17

Lab Sample ID: LCS 660-135754/2-A Client Sample ID: _____Date Analyzed: 03/28/13 15:04 Lab File ID: 1CC28013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	03/28/13 16:59

Lab Sample ID: 680-88527-A-21-B MS Client Sample ID: _____Date Analyzed: 03/28/13 15:41 Lab File ID: 1CC28015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	03/28/13 17:04

Lab Sample ID: 680-88527-A-21-C MSD Client Sample ID: _____Date Analyzed: 03/28/13 15:59 Lab File ID: 1CC28016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	03/28/13 17:12

Lab Sample ID: 680-88592-1 Client Sample ID: CV1360U-CSDate Analyzed: 03/28/13 17:12 Lab File ID: 1CC28020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 12:18
Benzo[g,h,i]perylene	10.38	Baseline Event	cantins	04/01/13 12:18

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Instrument ID: BSMC5973 Analysis Batch Number: 135902Lab Sample ID: 680-88592-2 Client Sample ID: CV1360V-CSDate Analyzed: 03/28/13 17:31 Lab File ID: 1CC28021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/01/13 12:20
Dibenz(a,h)anthracene	10.06	Baseline Event	cantins	04/01/13 12:19

Lab Sample ID: 680-88592-3 Client Sample ID: CV1360V-CSDDate Analyzed: 03/28/13 17:49 Lab File ID: 1CC28022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/01/13 13:22
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/13 13:22
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	04/01/13 13:23

Lab Sample ID: 680-88592-4 Client Sample ID: CV1360W-CSDate Analyzed: 03/28/13 18:08 Lab File ID: 1CC28023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 13:30

Lab Sample ID: 680-88592-5 Client Sample ID: CV1360X-CSDate Analyzed: 03/28/13 18:26 Lab File ID: 1CC28024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.53	Split Peak	cantins	04/01/13 13:32
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/13 13:32
Indeno[1,2,3-cd]pyrene	10.03	Baseline Event	cantins	04/01/13 13:34
Dibenz(a,h)anthracene	10.06	Baseline Event	cantins	04/01/13 13:34

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Instrument ID: BSMC5973 Analysis Batch Number: 135902Lab Sample ID: 680-88592-6 Client Sample ID: CV1360Y-CSDate Analyzed: 03/28/13 18:44 Lab File ID: 1CC28025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.55	Split Peak	cantins	04/01/13 13:38
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/13 13:39
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 13:39

Lab Sample ID: 680-88592-7 Client Sample ID: CV1360Z-CSDate Analyzed: 03/28/13 19:03 Lab File ID: 1CC28026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/01/13 13:39
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/13 13:40
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 13:40

Lab Sample ID: 680-88592-8 Client Sample ID: CV1360AA-CSDate Analyzed: 03/28/13 19:21 Lab File ID: 1CC28027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.03	Split Peak	cantins	04/01/13 13:41
Dibenz(a,h)anthracene	10.06	Baseline Event	cantins	04/01/13 13:41

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Instrument ID: BSMC5973 Analysis Batch Number: 135902Lab Sample ID: 680-88592-9 Client Sample ID: CV1360BB-CSDate Analyzed: 03/28/13 19:39 Lab File ID: 1CC28028.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/01/13 13:42
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/13 13:42
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/01/13 13:42
Dibenz(a,h)anthracene	10.06	Baseline Event	cantins	04/01/13 13:42
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	04/01/13 13:42

Lab Sample ID: 680-88592-11 Client Sample ID: CV1328A-CSDate Analyzed: 03/28/13 19:57 Lab File ID: 1CC28029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/01/13 13:43
Benzo[k]fluoranthene	8.56	Baseline Event	cantins	04/01/13 13:43
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/01/13 13:44
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	04/01/13 13:44

Lab Sample ID: 680-88592-12 Client Sample ID: CV1328B-CSDate Analyzed: 03/28/13 20:16 Lab File ID: 1CC28030.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/01/13 13:46

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Instrument ID: BSMC5973 Analysis Batch Number: 135902Lab Sample ID: 680-88592-13 Client Sample ID: CV0101A-CSDate Analyzed: 03/28/13 20:34 Lab File ID: 1CC28031.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/01/13 13:53
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/01/13 13:53
Indeno[1,2,3-cd]pyrene	10.04	Baseline Event	cantins	04/01/13 13:54
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	04/01/13 13:53

Lab Sample ID: 680-88592-14 Client Sample ID: CV0715A-CSDate Analyzed: 03/28/13 20:52 Lab File ID: 1CC28032.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.05	Split Peak	cantins	04/01/13 13:56
Dibenz(a,h)anthracene	10.06	Baseline Event	cantins	04/01/13 13:55
Benzo[g,h,i]perylene	10.39	Baseline Event	cantins	04/01/13 13:55

Lab Sample ID: 680-88592-15 Client Sample ID: CV0715A-CSDDate Analyzed: 03/28/13 21:11 Lab File ID: 1CC28033.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.54	Split Peak	cantins	04/01/13 13:56
Benzo[k]fluoranthene	8.55	Baseline Event	cantins	04/01/13 13:56
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/01/13 13:57
Dibenz(a,h)anthracene	10.06	Baseline Event	cantins	04/01/13 13:57

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Instrument ID: BSMC5973 Analysis Batch Number: 135902Lab Sample ID: 680-88592-16 Client Sample ID: CV0862A-CSDate Analyzed: 03/28/13 21:29 Lab File ID: 1CC28034.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/01/13 13:58
Dibenz(a,h)anthracene	10.05	Baseline Event	cantins	04/01/13 13:58

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Instrument 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: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.04	Split Peak	cantins	04/01/13 11:49

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.: 680-88592-1

SDG No.: 68088592-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1360U-CS	680-88592-1	93
CV1360V-CS	680-88592-2	85
CV1360V-CSD	680-88592-3	75
CV1360W-CS	680-88592-4	70
CV1360X-CS	680-88592-5	64
CV1360Y-CS	680-88592-6	65
CV1360Z-CS	680-88592-7	62
CV1360AA-CS	680-88592-8	89
CV1360BB-CS	680-88592-9	98
CV1360CC-CS	680-88592-10	62
CV1328A-CS	680-88592-11	66
CV1328B-CS	680-88592-12	89
CV0101A-CS	680-88592-13	62
CV0715A-CS	680-88592-14	53
CV0715A-CSD	680-88592-15	73
CV0862A-CS	680-88592-16	78
CV0862B-CS	680-88592-17	69
CV1156A-CS	680-88592-18	72
CV1156B-CS	680-88592-19	62
CV1240A-CS	680-88592-20	75
	MB 660-135754/1-A	82
	MB 660-135800/1-A	69
	LCS 660-135754/2-A	90
	LCS 660-135800/2-A	73
	680-88527-A-21-B MS	71
CV1156B-CS MS	680-88592-19 MS	55
	680-88527-A-21-C MSD	75
CV1156B-CS MSD	680-88592-19 MSD	69

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.: 680-88592-1
 SDG No.: 68088592-1
 Matrix: Solid Level: Low Lab File ID: 1CC28013.D
 Lab ID: LCS 660-135754/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	653	560	86	39-130	
Acenaphthylene	653	589	90	38-130	
Anthracene	653	581	89	37-130	
Benzo[a]anthracene	653	617	95	40-130	
Benzo[a]pyrene	653	595	91	49-130	
Benzo[b]fluoranthene	653	631	97	37-130	
Benzo[g,h,i]perylene	653	585	90	32-130	
Benzo[k]fluoranthene	653	644	99	32-130	
Chrysene	653	597	91	41-130	
Dibenz(a,h)anthracene	653	604	92	27-130	
Fluoranthene	653	612	94	40-130	
Fluorene	653	593	91	40-130	
Indeno[1,2,3-cd]pyrene	653	608	93	30-130	
1-Methylnaphthalene	653	619	95	31-130	
2-Methylnaphthalene	653	636	97	33-130	
Naphthalene	653	612	94	36-130	
Phenanthrene	653	547	84	42-130	
Pyrene	653	647	99	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.: 680-88592-1
 SDG No.: 68088592-1
 Matrix: Solid Level: Low Lab File ID: 1CC27006.D
 Lab ID: LCS 660-135800/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	670	534	80	39-130	
Acenaphthylene	670	518	77	38-130	
Anthracene	670	533	80	37-130	
Benzo[a]anthracene	670	502	75	40-130	
Benzo[a]pyrene	670	483	72	49-130	
Benzo[b]fluoranthene	670	554	83	37-130	
Benzo[g,h,i]perylene	670	493	74	32-130	
Benzo[k]fluoranthene	670	514	77	32-130	
Chrysene	670	494	74	41-130	
Dibenz(a,h)anthracene	670	525	78	27-130	
Fluoranthene	670	540	81	40-130	
Fluorene	670	558	83	40-130	
Indeno[1,2,3-cd]pyrene	670	495	74	30-130	
1-Methylnaphthalene	670	553	83	31-130	
2-Methylnaphthalene	670	503	75	33-130	
Naphthalene	670	505	75	36-130	
Phenanthrene	670	503	75	42-130	
Pyrene	670	517	77	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.: 680-88592-1
 SDG No.: 68088592-1
 Matrix: Solid Level: Low Lab File ID: 1CC28015.D
 Lab ID: 680-88527-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	1100	160 U	838	76	39-130	
Acenaphthylene	1100	18 J	903	80	38-130	
Anthracene	1100	29	920	81	37-130	
Benzo[a]anthracene	1100	130	904	70	40-130	
Benzo[a]pyrene	1100	130	933	73	49-130	
Benzo[b]fluoranthene	1100	230	977	68	37-130	
Benzo[g,h,i]perylene	1100	100	847	68	32-130	
Benzo[k]fluoranthene	1100	72	959	81	32-130	
Chrysene	1100	170	933	70	41-130	
Dibenz(a,h)anthracene	1100	28 J	876	77	27-130	
Fluoranthene	1100	270	1040	70	40-130	
Fluorene	1100	15 J	898	80	40-130	
Indeno[1,2,3-cd]pyrene	1100	95	806	65	30-130	
1-Methylnaphthalene	1100	39 J	981	86	31-130	
2-Methylnaphthalene	1100	59 J	912	77	33-130	
Naphthalene	1100	91	949	78	36-130	
Phenanthrene	1100	140	938	72	42-130	
Pyrene	1100	250	1060	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.: 680-88592-1
 SDG No.: 68088592-1
 Matrix: Solid Level: Low Lab File ID: 1CC27009.D
 Lab ID: 680-88592-19 MS Client ID: CV1156B-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1000	600 U	681	68	39-130	
Acenaphthylene	1000	31 J	617	58	38-130	
Anthracene	1000	75	583	51	37-130	
Benzo[a]anthracene	1000	650	1120	47	40-130	
Benzo[a]pyrene	1000	740	1280	54	49-130	
Benzo[b]fluoranthene	1000	1500	2010	50	37-130	
Benzo[g,h,i]perylene	1000	800	1370	56	32-130	
Benzo[k]fluoranthene	1000	410	1150	74	32-130	
Chrysene	1000	670	1240	57	41-130	
Dibenz(a,h)anthracene	1000	270	768	50	27-130	
Fluoranthene	1000	720	1280	55	40-130	
Fluorene	1000	120 U	671	67	40-130	
Indeno[1,2,3-cd]pyrene	1000	750	1110	35	30-130	
1-Methylnaphthalene	1000	60 J	781	72	31-130	
2-Methylnaphthalene	1000	110 J	690	58	33-130	
Naphthalene	1000	160 J	865	70	36-130	
Phenanthrene	1000	370	870	50	42-130	
Pyrene	1000	690	1240	54	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.: 680-88592-1
 SDG No.: 68088592-1
 Matrix: Solid Level: Low Lab File ID: 1CC28016.D
 Lab ID: 680-88527-A-21-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1100	828	75	1	40	39-130	
Acenaphthylene	1100	888	79	2	40	38-130	
Anthracene	1100	930	82	1	40	37-130	
Benzo[a]anthracene	1100	1110	89	21	40	40-130	
Benzo[a]pyrene	1100	984	78	5	40	49-130	
Benzo[b]fluoranthene	1100	1120	82	14	40	37-130	
Benzo[g,h,i]perylene	1100	943	76	11	40	32-130	
Benzo[k]fluoranthene	1100	1060	90	10	40	32-130	
Chrysene	1100	935	70	0	40	41-130	
Dibenz(a,h)anthracene	1100	899	79	3	40	27-130	
Fluoranthene	1100	1180	83	13	40	40-130	
Fluorene	1100	911	81	1	40	40-130	
Indeno[1,2,3-cd]pyrene	1100	965	79	18	40	30-130	
1-Methylnaphthalene	1100	995	87	1	40	31-130	
2-Methylnaphthalene	1100	928	79	2	40	33-130	
Naphthalene	1100	967	80	2	40	36-130	
Phenanthrene	1100	1030	80	9	40	42-130	
Pyrene	1100	1250	91	17	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.: 680-88592-1
 SDG No.: 68088592-1
 Matrix: Solid Level: Low Lab File ID: 1CC27010.D
 Lab ID: 680-88592-19 MSD Client ID: CV1156B-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1000	616	61	10	40	39-130	
Acenaphthylene	1000	693	66	12	40	38-130	
Anthracene	1000	763	69	27	40	37-130	
Benzo[a]anthracene	1000	1550	89	32	40	40-130	
Benzo[a]pyrene	1000	1700	95	28	40	49-130	
Benzo[b]fluoranthene	1000	3480	197	53	40	37-130	F
Benzo[g,h,i]perylene	1000	1900	109	32	40	32-130	
Benzo[k]fluoranthene	1000	1420	100	21	40	32-130	
Chrysene	1000	1760	109	35	40	41-130	
Dibenz(a,h)anthracene	1000	1010	74	27	40	27-130	
Fluoranthene	1000	1780	105	33	40	40-130	
Fluorene	1000	829	83	21	40	40-130	
Indeno[1,2,3-cd]pyrene	1000	1740	99	44	40	30-130	F
1-Methylnaphthalene	1000	882	82	12	40	31-130	
2-Methylnaphthalene	1000	985	87	35	40	33-130	
Naphthalene	1000	946	78	9	40	36-130	
Phenanthrene	1000	1170	80	30	40	42-130	
Pyrene	1000	1580	89	24	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.: 680-88592-1
 SDG No.: 68088592-1
 Lab File ID: 1CC28012.D Lab Sample ID: MB 660-135754/1-A
 Matrix: Solid Date Extracted: 03/25/2013 16:58
 Instrument ID: BSMC5973 Date Analyzed: 03/28/2013 14:46
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135754/2-A	1CC28013.D	03/28/2013 15:04
	680-88527-A-21-B MS	1CC28015.D	03/28/2013 15:41
	680-88527-A-21-C MSD	1CC28016.D	03/28/2013 15:59
CV1360U-CS	680-88592-1	1CC28020.D	03/28/2013 17:12
CV1360V-CS	680-88592-2	1CC28021.D	03/28/2013 17:31
CV1360V-CSD	680-88592-3	1CC28022.D	03/28/2013 17:49
CV1360W-CS	680-88592-4	1CC28023.D	03/28/2013 18:08
CV1360X-CS	680-88592-5	1CC28024.D	03/28/2013 18:26
CV1360Y-CS	680-88592-6	1CC28025.D	03/28/2013 18:44
CV1360Z-CS	680-88592-7	1CC28026.D	03/28/2013 19:03
CV1360AA-CS	680-88592-8	1CC28027.D	03/28/2013 19:21
CV1360BB-CS	680-88592-9	1CC28028.D	03/28/2013 19:39
CV1328A-CS	680-88592-11	1CC28029.D	03/28/2013 19:57
CV1328B-CS	680-88592-12	1CC28030.D	03/28/2013 20:16
CV0101A-CS	680-88592-13	1CC28031.D	03/28/2013 20:34
CV0715A-CS	680-88592-14	1CC28032.D	03/28/2013 20:52
CV0715A-CSD	680-88592-15	1CC28033.D	03/28/2013 21:11
CV0862A-CS	680-88592-16	1CC28034.D	03/28/2013 21:29
CV1360Y-CS DL	680-88592-6 DL	1CD01012.D	04/01/2013 14:33

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
SDG No.: 68088592-1
Lab File ID: 1CC27005.D Lab Sample ID: MB 660-135800/1-A
Matrix: Solid Date Extracted: 03/26/2013 16:07
Instrument ID: BSMC5973 Date Analyzed: 03/27/2013 11:26
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135800/2-A	1CC27006.D	03/27/2013 11:44
CV1156B-CS	680-88592-19	1CC27008.D	03/27/2013 12:20
CV1156B-CS MS	680-88592-19 MS	1CC27009.D	03/27/2013 12:39
CV1156B-CS MSD	680-88592-19 MSD	1CC27010.D	03/27/2013 12:57
CV1360CC-CS	680-88592-10	1CC27011.D	03/27/2013 13:15
CV0862B-CS	680-88592-17	1CC27012.D	03/27/2013 13:34
CV1156A-CS	680-88592-18	1CC27013.D	03/27/2013 13:52
CV1240A-CS	680-88592-20	1CC27014.D	03/27/2013 14:11

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Lab File ID: 1CB22002.D DFTPP Injection Date: 02/22/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:41
 Analysis Batch No.: 134776

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

1-Value is % mass 69

2-Value is % mass 442

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

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

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Lab File ID: 1CC27002.D DFTPP Injection Date: 03/27/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 10:18
 Analysis Batch No.: 135830

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	38.7
68	Less than 2.0 % of mass 69	1.0 (2.0)1
69	Mass 69 relative abundance	49.9
70	Less than 2.0 % of mass 69	0.4 (0.8)1
127	10.0 - 80.0 % of mass 198	47.6
197	Less than 2.0 % of mass 198	1.1
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.2
275	10.0 - 60.0 % of mass 198	18.4
365	Greater than 1.0 % of mass 198	2.7
441	Present but less than mass 443	8.2
442	Greater than 50.0 % of mass 198	55.2
443	15.0 - 24.0 % of mass 442	12.1 (21.9)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135830/3	1CC27003.D	03/27/2013	10:35
	MB 660-135800/1-A	1CC27005.D	03/27/2013	11:26
	LCS 660-135800/2-A	1CC27006.D	03/27/2013	11:44
CV1156B-CS	680-88592-19	1CC27008.D	03/27/2013	12:20
CV1156B-CS MS	680-88592-19 MS	1CC27009.D	03/27/2013	12:39
CV1156B-CS MSD	680-88592-19 MSD	1CC27010.D	03/27/2013	12:57
CV1360CC-CS	680-88592-10	1CC27011.D	03/27/2013	13:15
CV0862B-CS	680-88592-17	1CC27012.D	03/27/2013	13:34
CV1156A-CS	680-88592-18	1CC27013.D	03/27/2013	13:52
CV1240A-CS	680-88592-20	1CC27014.D	03/27/2013	14:11

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Lab File ID: 1CC28002.D DFTPP Injection Date: 03/28/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:42
 Analysis Batch No.: 135902

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	33.0
68	Less than 2.0 % of mass 69	0.6 (1.4) 1
69	Mass 69 relative abundance	43.3
70	Less than 2.0 % of mass 69	0.3 (0.8) 1
127	10.0 - 80.0 % of mass 198	48.0
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	7.1
275	10.0 - 60.0 % of mass 198	23.6
365	Greater than 1.0 % of mass 198	4.4
441	Present but less than mass 443	13.2
442	Greater than 50.0 % of mass 198	91.4
443	15.0 - 24.0 % of mass 442	20.8 (22.7) 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 660-135902/3	1CC28003.D	03/28/2013	11:59
	MB 660-135754/1-A	1CC28012.D	03/28/2013	14:46
	LCS 660-135754/2-A	1CC28013.D	03/28/2013	15:04
	680-88527-A-21-B MS	1CC28015.D	03/28/2013	15:41
	680-88527-A-21-C MSD	1CC28016.D	03/28/2013	15:59
CV1360U-CS	680-88592-1	1CC28020.D	03/28/2013	17:12
CV1360V-CS	680-88592-2	1CC28021.D	03/28/2013	17:31
CV1360V-CSD	680-88592-3	1CC28022.D	03/28/2013	17:49
CV1360W-CS	680-88592-4	1CC28023.D	03/28/2013	18:08
CV1360X-CS	680-88592-5	1CC28024.D	03/28/2013	18:26
CV1360Y-CS	680-88592-6	1CC28025.D	03/28/2013	18:44
CV1360Z-CS	680-88592-7	1CC28026.D	03/28/2013	19:03
CV1360AA-CS	680-88592-8	1CC28027.D	03/28/2013	19:21
CV1360BB-CS	680-88592-9	1CC28028.D	03/28/2013	19:39
CV1328A-CS	680-88592-11	1CC28029.D	03/28/2013	19:57
CV1328B-CS	680-88592-12	1CC28030.D	03/28/2013	20:16
CV0101A-CS	680-88592-13	1CC28031.D	03/28/2013	20:34
CV0715A-CS	680-88592-14	1CC28032.D	03/28/2013	20:52
CV0715A-CSD	680-88592-15	1CC28033.D	03/28/2013	21:11
CV0862A-CS	680-88592-16	1CC28034.D	03/28/2013	21:29

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 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
CV1360Y-CS DL	680-88592-6 DL	1CD01012.D	04/01/2013	14:33

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N
 Calibration ID: 2760

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

NPT = Naphthalene-d8
 ANT = Acenaphthene-d10
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Sample No.: ICIS 660-134776/7 Date Analyzed: 02/22/2013 13:11
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CB22007.D Heated Purge: (Y/N) N
 Calibration ID: 2760

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

CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Sample No.: CCVIS 660-135830/3 Date Analyzed: 03/27/2013 10:35
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC27003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	740866	3.73	575327	4.82	1092531	5.76	
UPPER LIMIT	1481732	4.23	1150654	5.32	2185062	6.26	
LOWER LIMIT	370433	3.23	287664	4.32	546266	5.26	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135800/1-A	733449	3.73	569617	4.82	1053797	5.77	
LCS 660-135800/2-A	652625	3.73	502253	4.82	992616	5.76	
680-88592-19	CV1156B-CS	909551	3.73	732897	4.82	1363986	5.76
680-88592-19 MS	CV1156B-CS MS	788710	3.73	620741	4.82	1191395	5.76
680-88592-19 MSD	CV1156B-CS MSD	715305	3.73	593203	4.82	1086522	5.76
680-88592-10	CV1360CC-CS	804520	3.73	638302	4.82	1118423	5.76
680-88592-17	CV0862B-CS	736521	3.73	575535	4.82	1106593	5.76
680-88592-18	CV1156A-CS	779565	3.73	631720	4.82	1172185	5.76
680-88592-20	CV1240A-CS	735646	3.73	584434	4.82	1081421	5.76

NPT = Naphthalene-d8
 ANT = Acenaphthene-d10
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Sample No.: CCVIS 660-135830/3 Date Analyzed: 03/27/2013 10:35
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC27003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1389214	7.70	1427635	8.89		
UPPER LIMIT	2778428	8.20	2855270	9.39		
LOWER LIMIT	694607	7.20	713818	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135800/1-A		1355661	7.72	1428942	8.91	
LCS 660-135800/2-A		1311274	7.70	1340417	8.89	
680-88592-19	CV1156B-CS	1626422	7.70	1645805	8.89	
680-88592-19 MS	CV1156B-CS MS	1439736	7.70	1443512	8.89	
680-88592-19 MSD	CV1156B-CS MSD	1295155	7.70	1276318	8.89	
680-88592-10	CV1360CC-CS	1325113	7.70	1292528	8.89	
680-88592-17	CV0862B-CS	1283779	7.70	1244288	8.89	
680-88592-18	CV1156A-CS	1342893	7.70	1320894	8.89	
680-88592-20	CV1240A-CS	1204552	7.70	1177853	8.89	

CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Sample No.: CCVIS 660-135902/3 Date Analyzed: 03/28/2013 11:59
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC28003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	797659	3.72	631634	4.81	1190245	5.76	
UPPER LIMIT	1595318	4.22	1263268	5.31	2380490	6.26	
LOWER LIMIT	398830	3.22	315817	4.31	595123	5.26	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135754/1-A		719073	3.72	559054	4.81	1066935	5.76
LCS 660-135754/2-A		707514	3.72	575821	4.81	1089761	5.76
680-88527-A-21-B MS		757603	3.72	608144	4.81	1106477	5.76
680-88527-A-21-C MSD		774119	3.72	632579	4.81	1127385	5.76
680-88592-1	CV1360U-CS	825600	3.72	648641	4.81	1175196	5.76
680-88592-2	CV1360V-CS	778579	3.72	602377	4.81	1084285	5.76
680-88592-3	CV1360V-CSD	723750	3.72	571510	4.81	1057922	5.76
680-88592-4	CV1360W-CS	749432	3.72	603430	4.81	1115512	5.76
680-88592-5	CV1360X-CS	827979	3.72	643987	4.81	1188920	5.76
680-88592-6	CV1360Y-CS	820450	3.72	649941	4.81	1192866	5.76
680-88592-7	CV1360Z-CS	819781	3.72	640623	4.81	1166909	5.76
680-88592-8	CV1360AA-CS	725783	3.72	554388	4.81	1017529	5.76
680-88592-9	CV1360BB-CS	803421	3.72	626537	4.81	1112510	5.76
680-88592-11	CV1328A-CS	787537	3.72	598484	4.81	1061811	5.76
680-88592-12	CV1328B-CS	805293	3.72	619002	4.81	1082882	5.76
680-88592-13	CV0101A-CS	995934	3.72	784118	4.81	1427357	5.76
680-88592-14	CV0715A-CS	806522	3.72	623672	4.81	1150850	5.76
680-88592-15	CV0715A-CSD	842616	3.72	656280	4.81	1142409	5.76
680-88592-16	CV0862A-CS	791948	3.72	614538	4.81	1125085	5.76

NPT = Naphthalene-d8
 ANT = Acenaphthene-d10
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Sample No.: CCVIS 660-135902/3 Date Analyzed: 03/28/2013 11:59
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC28003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1432718	7.70	1426297	8.89		
UPPER LIMIT	2865436	8.20	2852594	9.39		
LOWER LIMIT	716359	7.20	713149	8.39		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135754/1-A		1235853	7.70	1249019	8.88	
LCS 660-135754/2-A		1256595	7.70	1278924	8.88	
680-88527-A-21-B MS		1334075	7.70	1313910	8.88	
680-88527-A-21-C MSD		1291838	7.70	1252337	8.88	
680-88592-1	CV1360U-CS	1266852	7.70	1238284	8.89	
680-88592-2	CV1360V-CS	1210905	7.70	1201002	8.88	
680-88592-3	CV1360V-CSD	1223691	7.70	1234178	8.88	
680-88592-4	CV1360W-CS	1230923	7.70	1212028	8.89	
680-88592-5	CV1360X-CS	1305847	7.70	1278167	8.89	
680-88592-6	CV1360Y-CS	1348916	7.70	1245835	8.89	
680-88592-7	CV1360Z-CS	1298113	7.70	1275038	8.89	
680-88592-8	CV1360AA-CS	1168615	7.70	1125238	8.89	
680-88592-9	CV1360BB-CS	1212386	7.70	1188794	8.89	
680-88592-11	CV1328A-CS	1187448	7.70	1163420	8.88	
680-88592-12	CV1328B-CS	1244931	7.70	1200339	8.89	
680-88592-13	CV0101A-CS	1552451	7.70	1514028	8.89	
680-88592-14	CV0715A-CS	1269297	7.70	1205247	8.89	
680-88592-15	CV0715A-CSD	1269358	7.70	1221074	8.89	
680-88592-16	CV0862A-CS	1191040	7.70	1153131	8.89	

CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 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							
680-88592-6 DL	CV1360Y-CS DL		689240	3.72	533515	4.80	1020797	5.75

NPT = Naphthalene-d8
 ANT = Acenaphthene-d10
 PHN = Phenanthrene-d10

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 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					
680-88592-6 DL	CV1360Y-CS DL		1346226	7.69	1288945	8.87

CRY = Chrysene-d12
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1360U-CS Lab Sample ID: 680-88592-1
 Matrix: Solid Lab File ID: 1CC28020.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 08:20
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.08(g) Date Analyzed: 03/28/2013 17:12
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 27.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	220	U	220	27
120-12-7	Anthracene	46	U	46	23
56-55-3	Benzo[a]anthracene	140		44	21
50-32-8	Benzo[a]pyrene	100		57	28
205-99-2	Benzo[b]fluoranthene	150		67	33
191-24-2	Benzo[g,h,i]perylene	93	J	110	24
207-08-9	Benzo[k]fluoranthene	58		44	20
218-01-9	Chrysene	130		49	25
53-70-3	Dibenz(a,h)anthracene	110	U	110	22
206-44-0	Fluoranthene	160		110	22
86-73-7	Fluorene	24	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	82	J	110	39
90-12-0	1-Methylnaphthalene	41	J	220	24
91-57-6	2-Methylnaphthalene	75	J	220	39
91-20-3	Naphthalene	55	J	220	24
85-01-8	Phenanthrene	150		44	21
129-00-0	Pyrene	160		110	20

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28020.D
 Lab Smp Id: 680-88592-A-1-A Client Smp ID: CV1360U-CS
 Inj Date : 28-MAR-2013 17:12
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-1-a
 Misc Info : 680-88592-A-1-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 20
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	27.260	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.721	3.722	(1.000)	825600	40.0000	
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	648641	40.0000	
* 10 Phenanthrene-d10	188		5.763	5.763	(1.000)	1175196	40.0000	
\$ 14 o-Terphenyl	230		6.010	6.010	(1.043)	41175	2.32057	846.2129
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1266852	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1238284	40.0000	
2 Naphthalene	128		3.733	3.733	(1.003)	3239	0.15070	54.9526(Q)
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	2936	0.20478	74.6756
4 1-Methylnaphthalene	142		4.227	4.222	(1.136)	1480	0.11334	41.3314
9 Fluorene	166		5.151	5.151	(1.071)	1370	0.06665	24.3025(Q)
11 Phenanthrene	178		5.774	5.774	(1.002)	13595	0.40007	145.8885
15 Fluoranthene	202		6.610	6.616	(1.147)	16320	0.43855	159.9190
16 Pyrene	202		6.780	6.780	(0.880)	14532	0.42685	155.6533
17 Benzo(a)anthracene	228		7.698	7.698	(0.999)	14311	0.39140	142.7259

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		----	-----	-----	-----	-----	-----
19 Chrysene	228		7.721	7.721	(1.002)	13060	0.35692	130.1517
20 Benzo(b)fluoranthene	252		8.533	8.539	(0.960)	13503	0.41726	152.1574
21 Benzo(k)fluoranthene	252		8.556	8.562	(0.963)	5282	0.15911	58.0202(Q)
22 Benzo(a)pyrene	252		8.821	8.827	(0.993)	8606	0.27379	99.8385
24 Indeno(1,2,3-cd)pyrene	276		10.045	10.045	(1.130)	6662	0.22530	82.1566(M)
26 Benzo(g,h,i)perylene	276		10.380	10.398	(1.168)	7894	0.25520	93.0612(M)

QC Flag Legend

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

Data File: 1CC28020.D

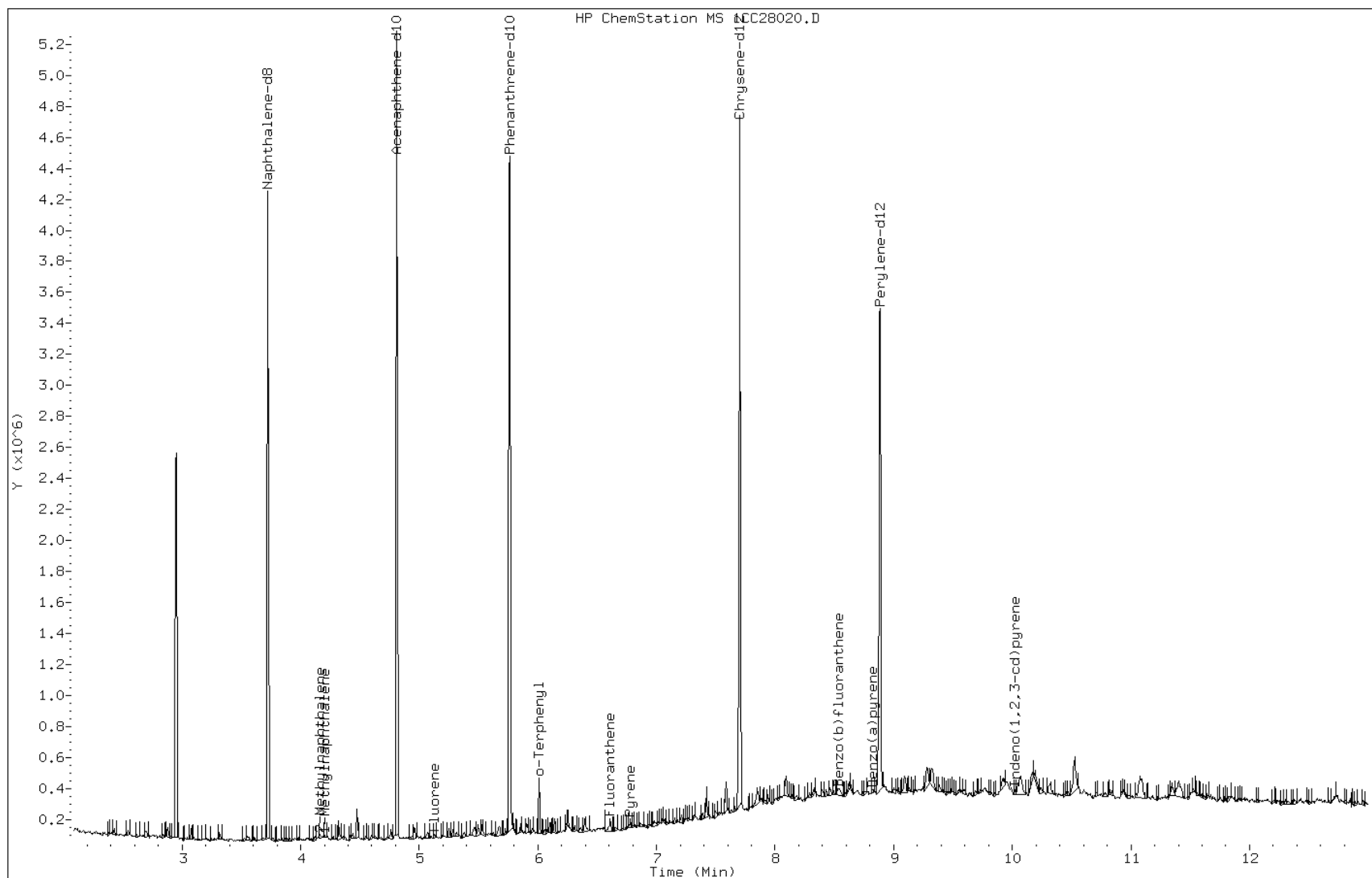
Date: 28-MAR-2013 17:12

Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

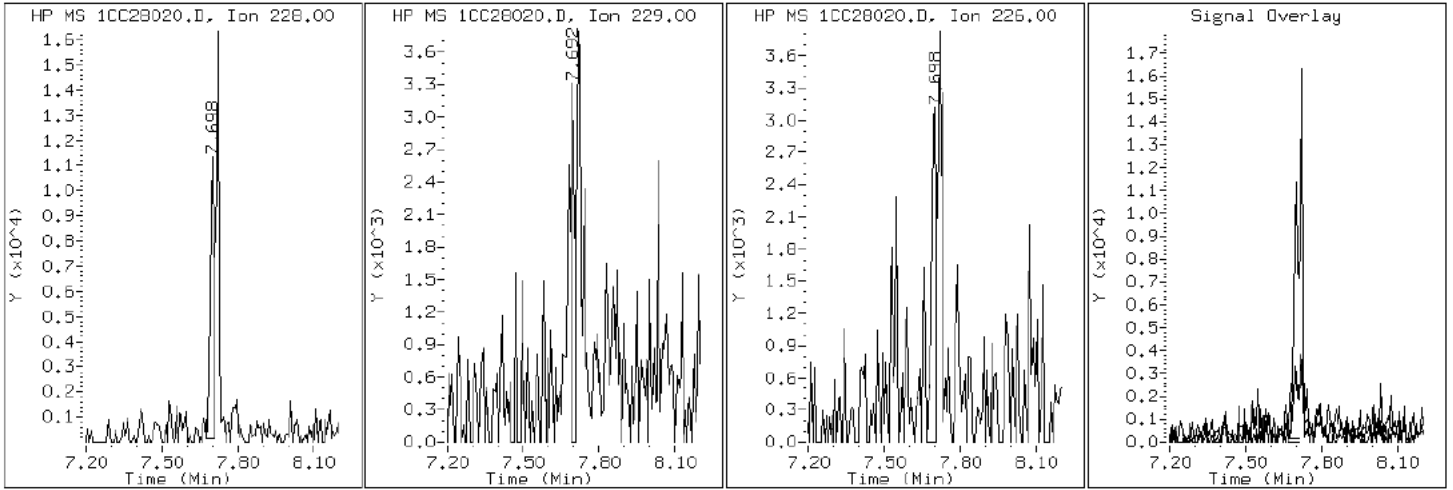
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

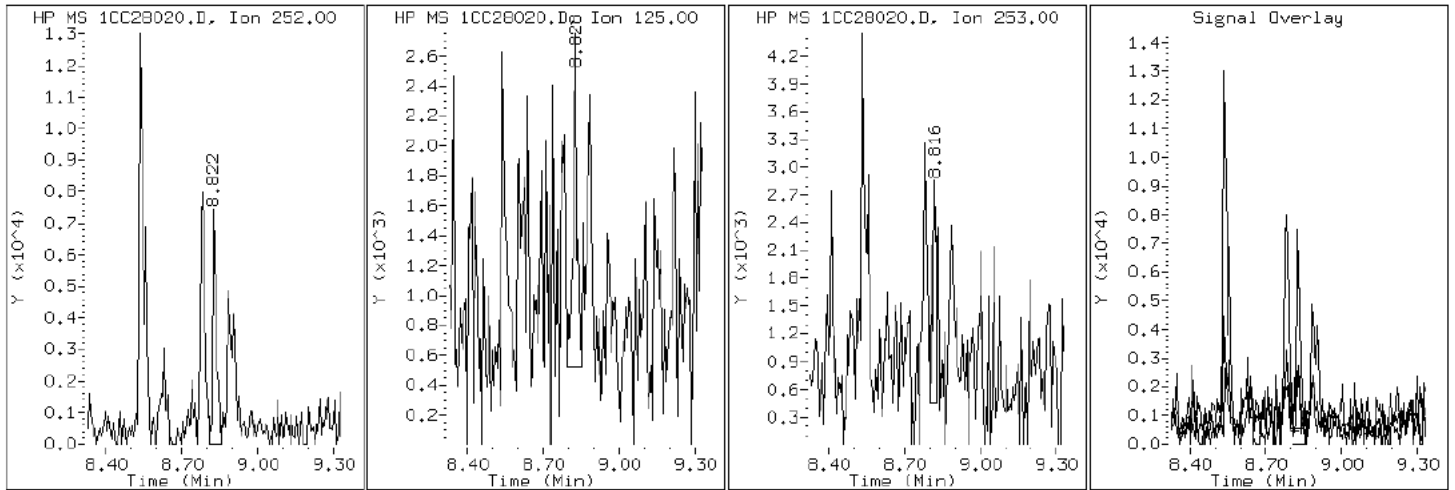
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

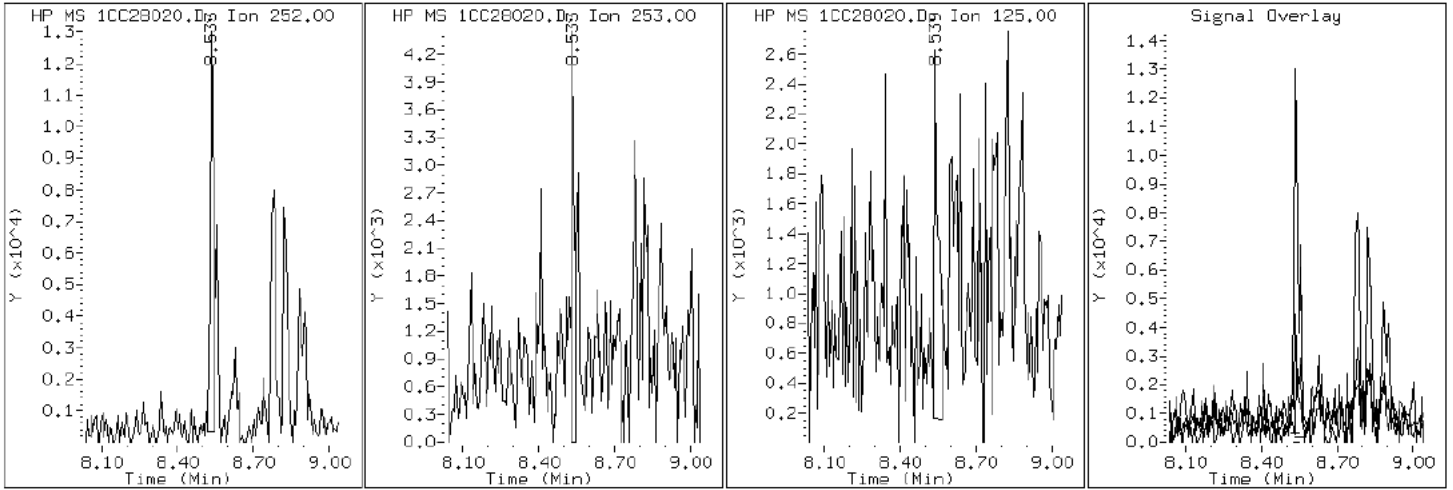
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

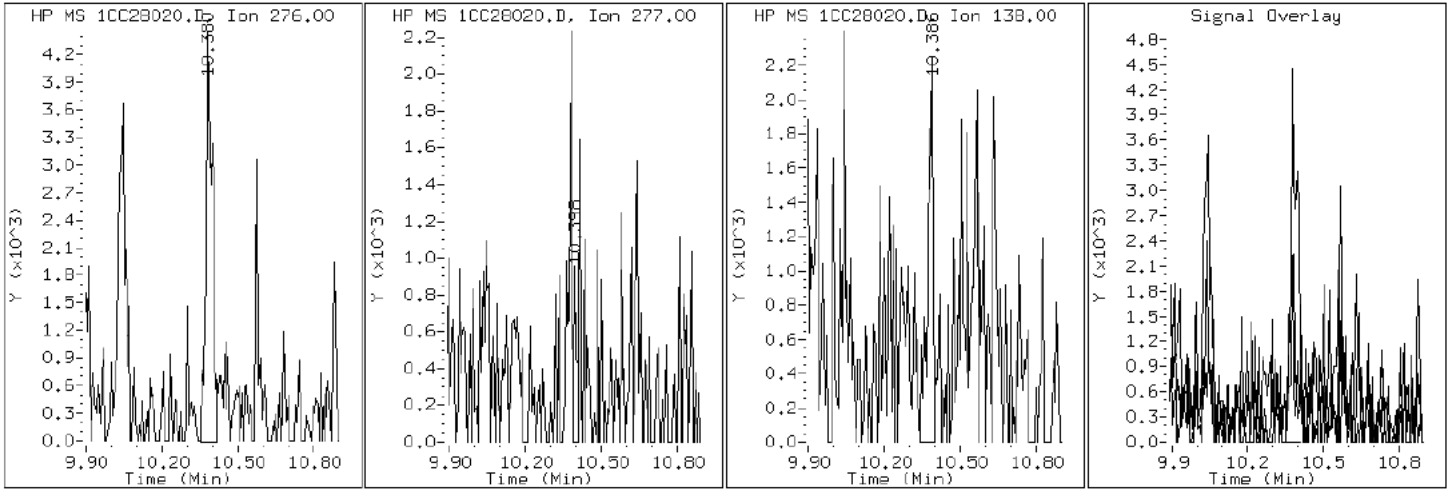
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

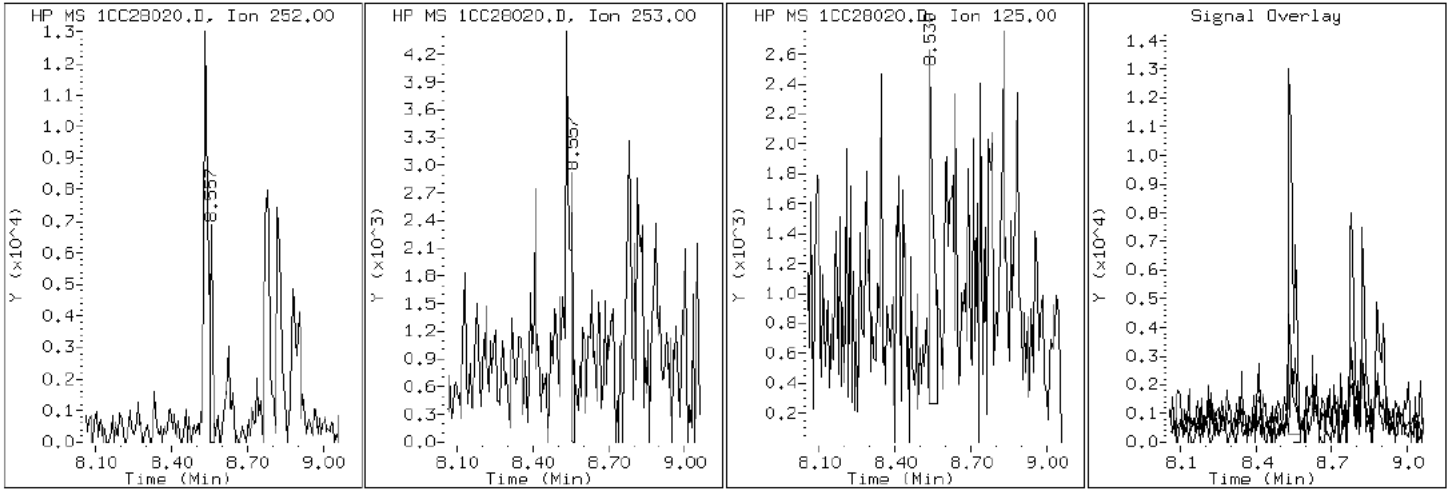
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

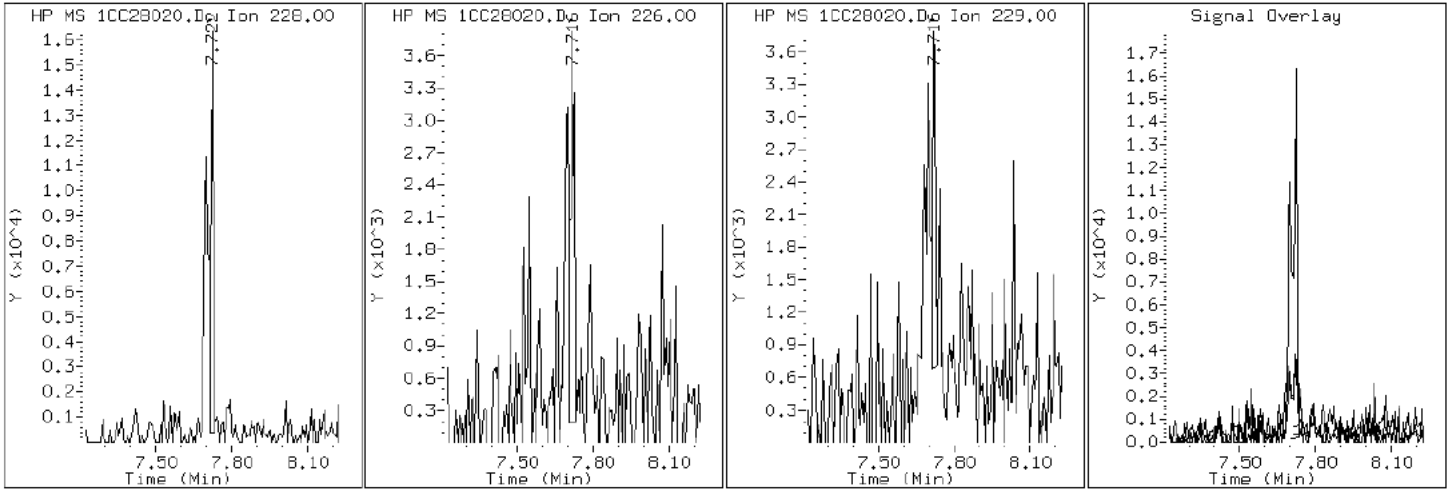
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

19 Chrysene



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

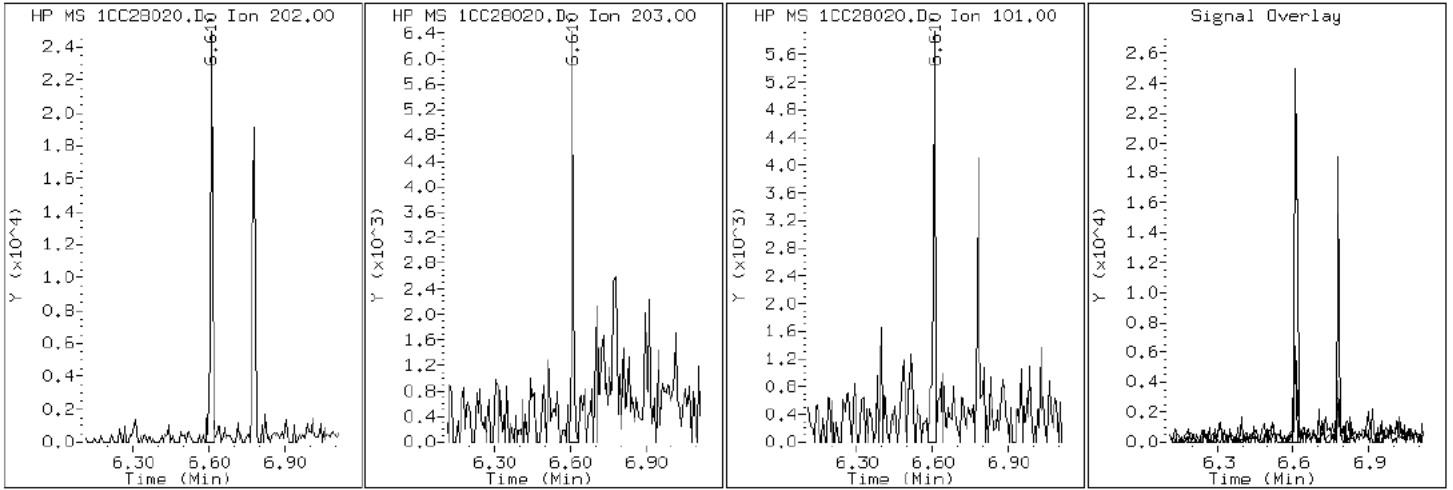
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

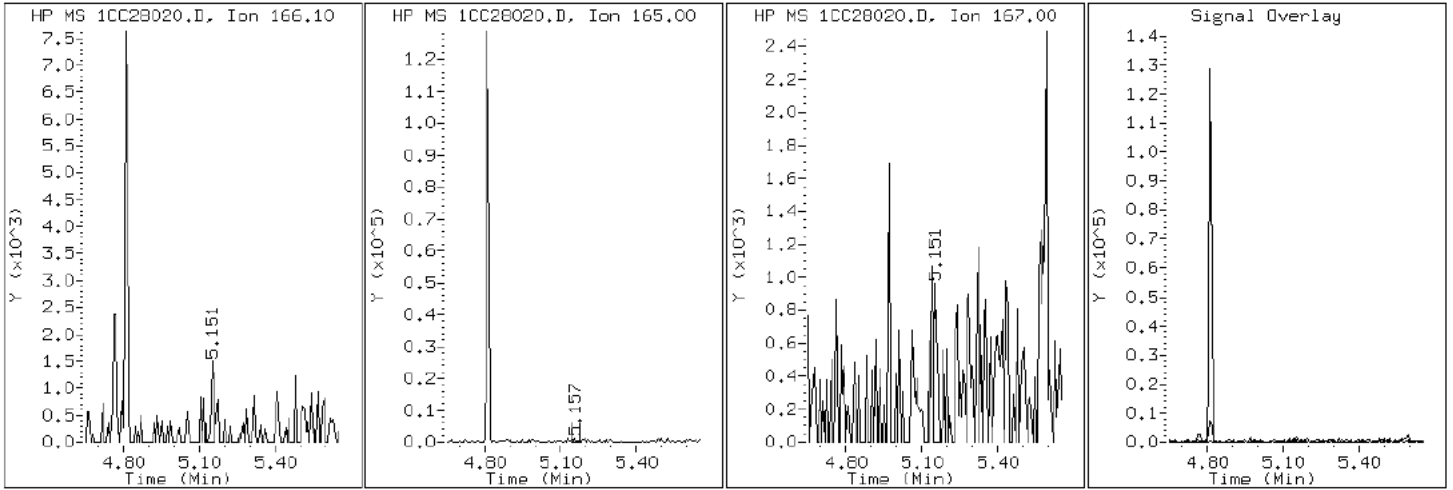
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

9 Fluorene



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

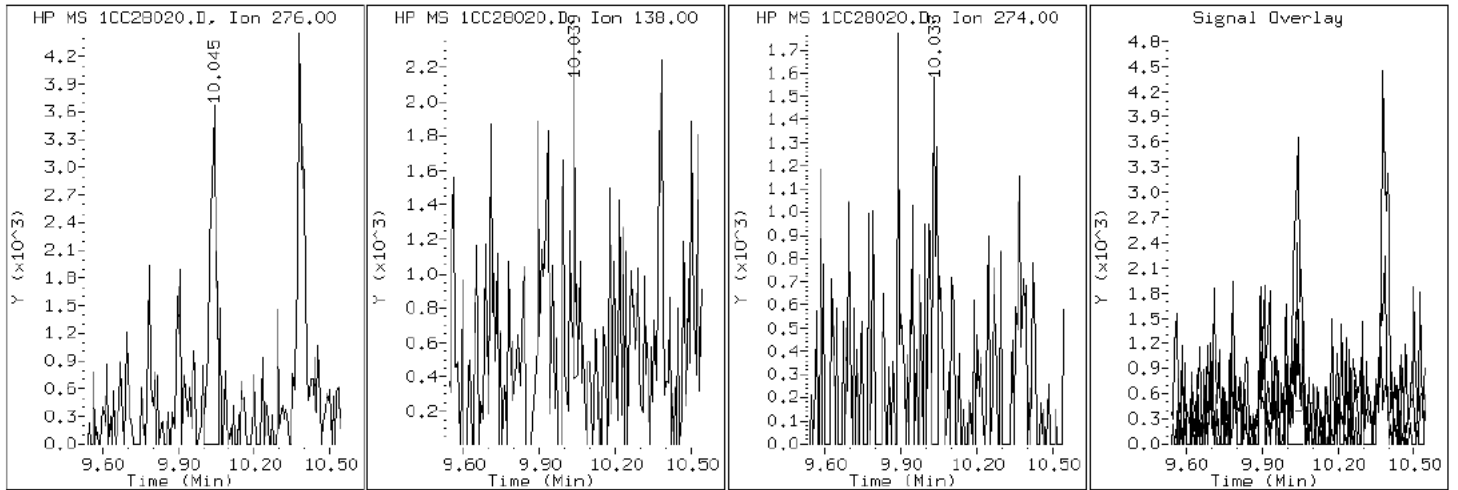
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

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



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

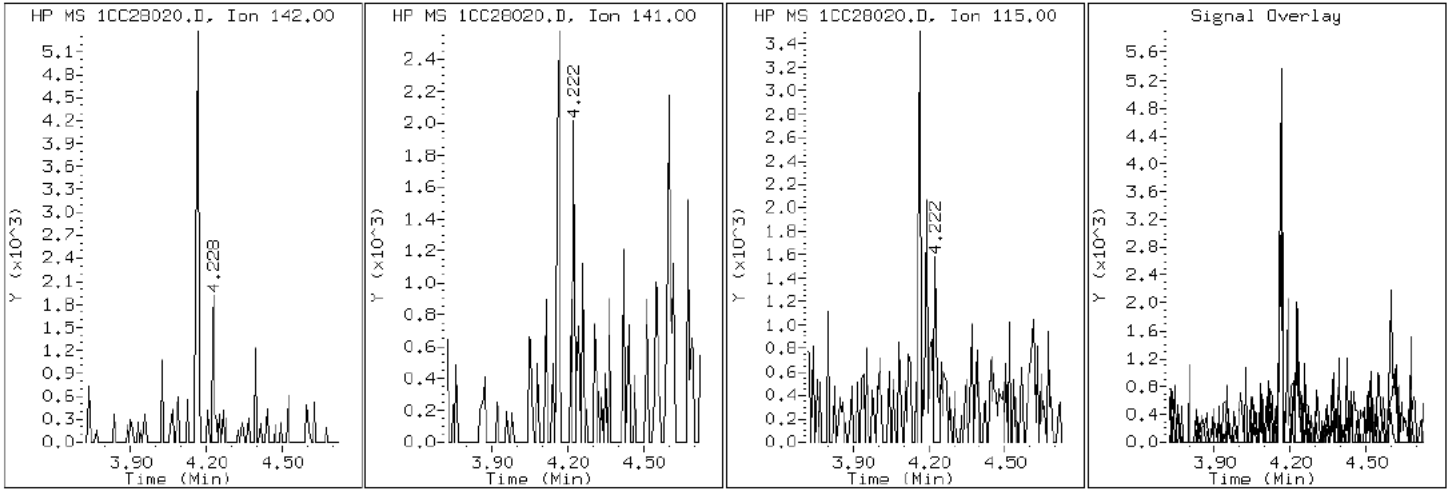
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

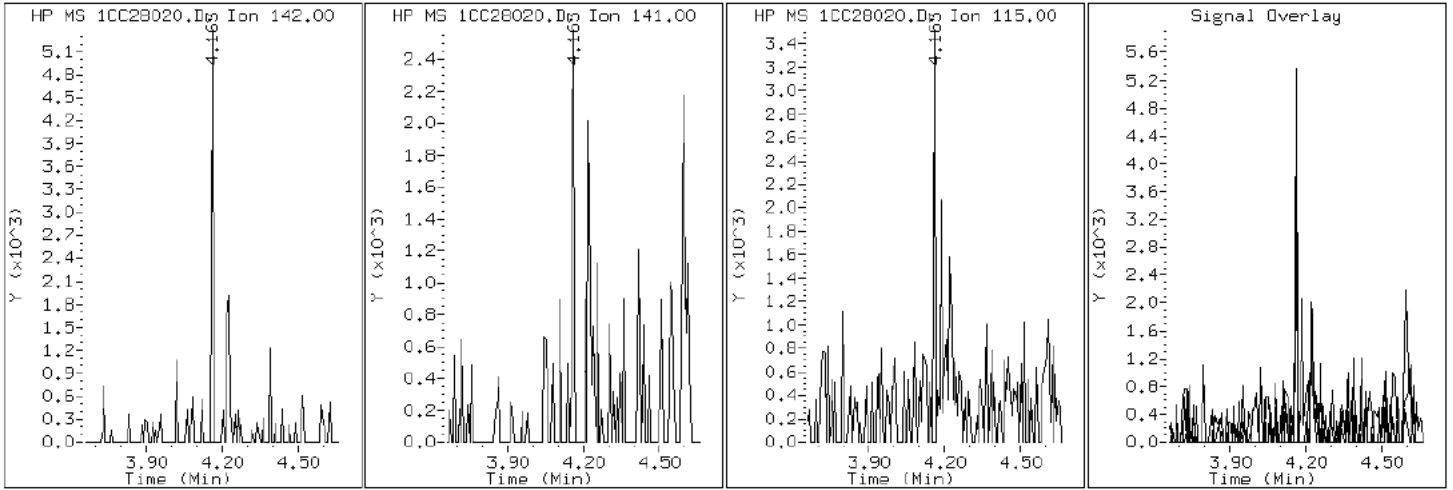
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

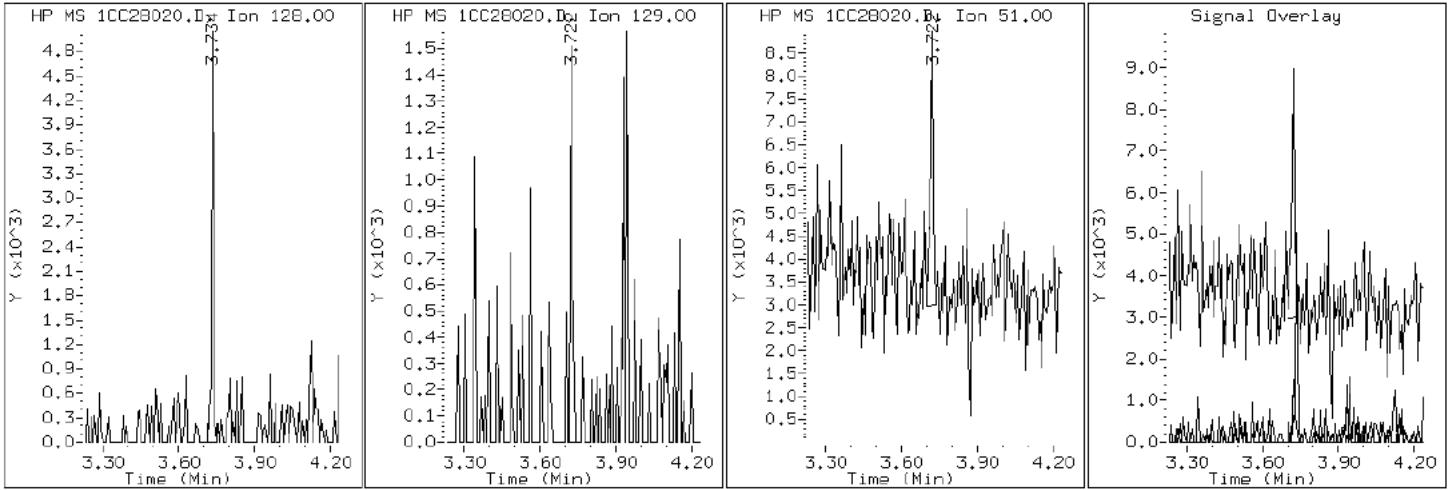
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

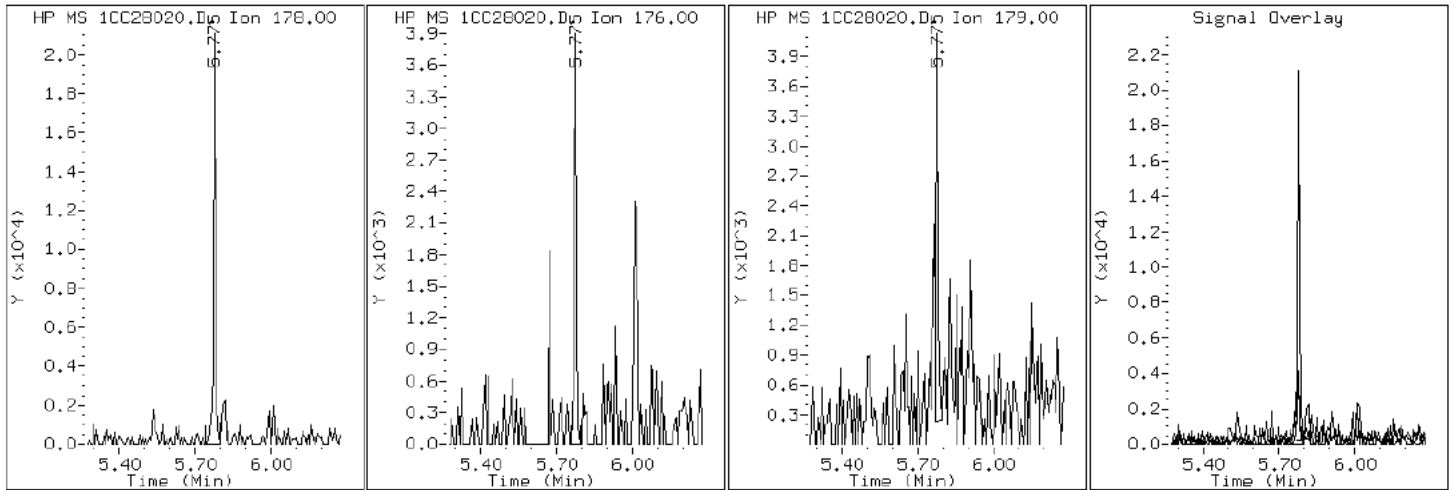
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28020.D

Date: 28-MAR-2013 17:12

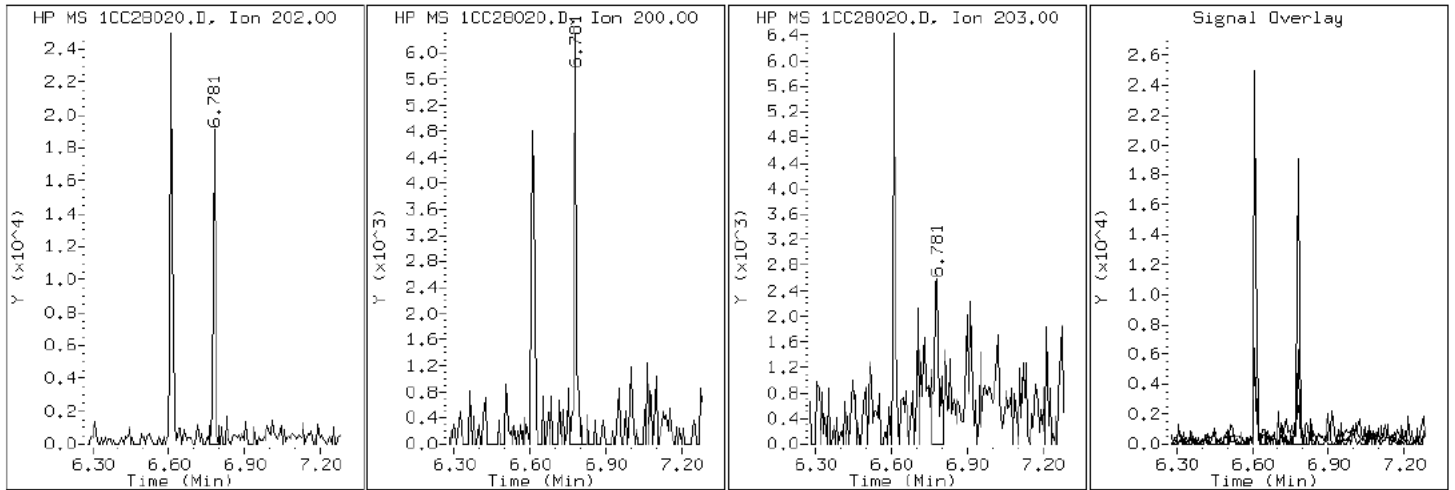
Client ID: CV1360U-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-1-a

Operator: SCC

16 Pyrene

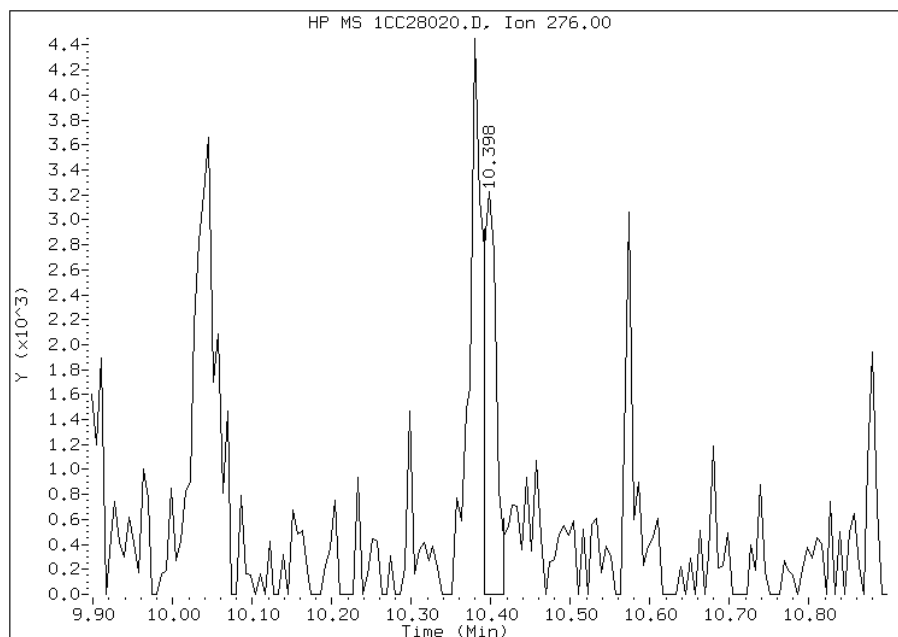


Manual Integration Report

Data File: 1CC28020.D
Inj. Date and Time: 28-MAR-2013 17:12
Instrument ID: BSMC5973.i
Client ID: CV1360U-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/01/2013

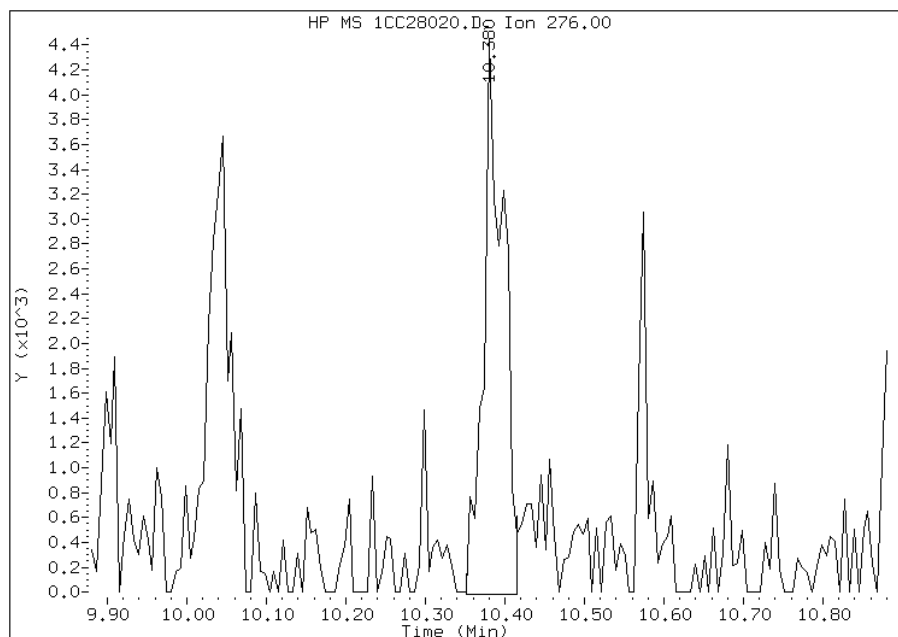
Processing Integration Results

RT: 10.40
Response: 3543
Amount: 0
Conc: 42



Manual Integration Results

RT: 10.38
Response: 7894
Amount: 0
Conc: 93



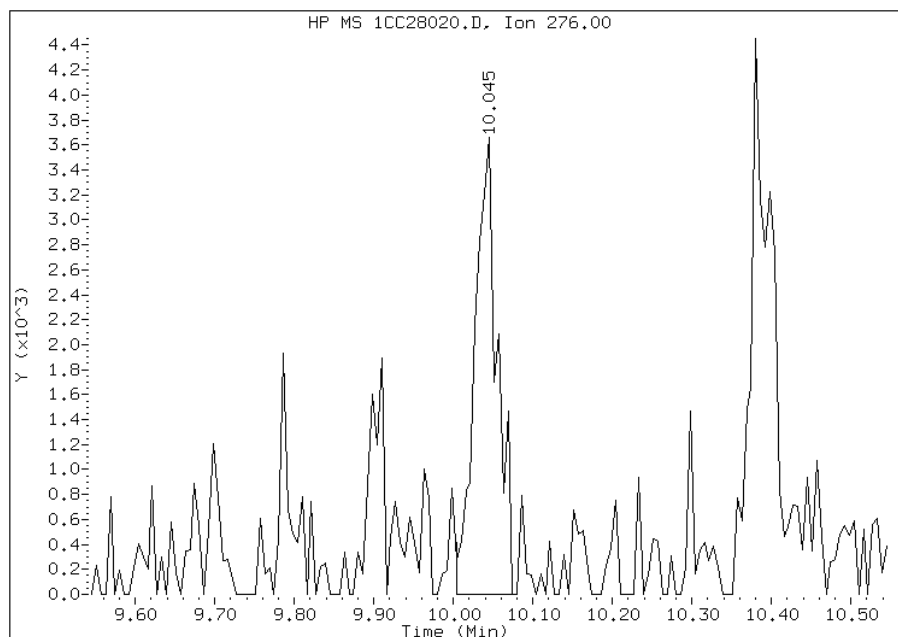
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 12:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28020.D
Inj. Date and Time: 28-MAR-2013 17:12
Instrument ID: BSMC5973.i
Client ID: CV1360U-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

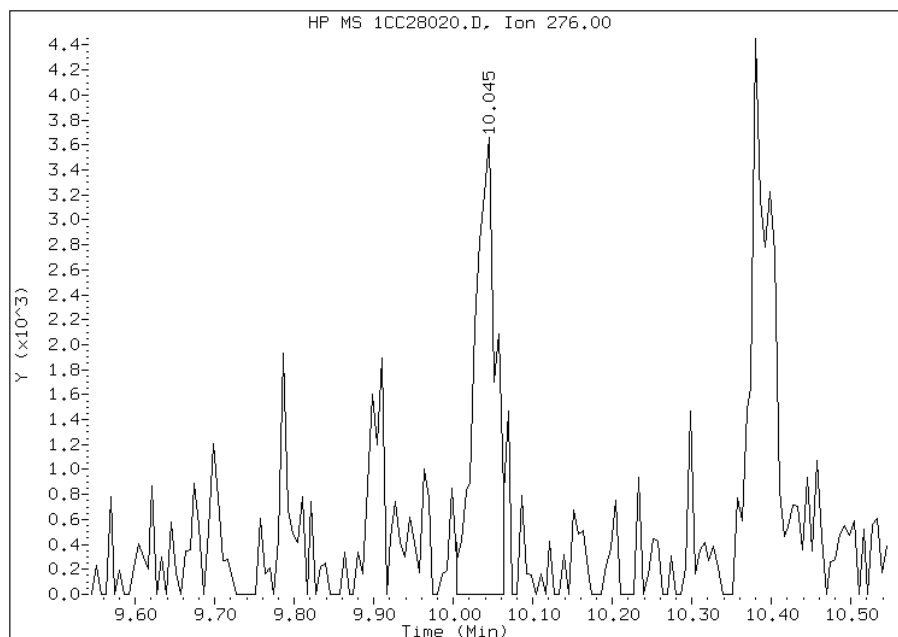
Processing Integration Results

RT: 10.05
Response: 7181
Amount: 0
Conc: 89



Manual Integration Results

RT: 10.05
Response: 6662
Amount: 0
Conc: 82



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 12:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1360V-CS Lab Sample ID: 680-88592-2
 Matrix: Solid Lab File ID: 1CC28021.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 08:30
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.26(g) Date Analyzed: 03/28/2013 17:31
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 21.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	200	U	200	25
120-12-7	Anthracene	39	J	42	21
56-55-3	Benzo[a]anthracene	240		40	20
50-32-8	Benzo[a]pyrene	250		52	26
205-99-2	Benzo[b]fluoranthene	420		61	31
191-24-2	Benzo[g,h,i]perylene	220		100	22
207-08-9	Benzo[k]fluoranthene	160		40	18
218-01-9	Chrysene	270		45	23
53-70-3	Dibenz(a,h)anthracene	67	J	100	21
206-44-0	Fluoranthene	370		100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	170		100	36
90-12-0	1-Methylnaphthalene	34	J	200	22
91-57-6	2-Methylnaphthalene	60	J	200	36
91-20-3	Naphthalene	55	J	200	22
85-01-8	Phenanthrene	170		40	20
129-00-0	Pyrene	350		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	85		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28021.D
 Lab Smp Id: 680-88592-A-2-A Client Smp ID: CV1360V-CS
 Inj Date : 28-MAR-2013 17:31
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-2-a
 Misc Info : 680-88592-A-2-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 21
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	Weight Extracted
M	21.754	% 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			3.721	3.722	(1.000)	778579	40.0000	
* 6 Acenaphthene-d10	164			4.810	4.810	(1.000)	602377	40.0000	
* 10 Phenanthrene-d10	188			5.757	5.763	(1.000)	1084285	40.0000	
\$ 14 o-Terphenyl	230			6.010	6.010	(1.044)	34727	2.12127	710.6203
* 18 Chrysene-d12	240			7.704	7.704	(1.000)	1210905	40.0000	
* 23 Perylene-d12	264			8.880	8.886	(1.000)	1201002	40.0000	
2 Naphthalene	128			3.733	3.733	(1.003)	3319	0.16374	54.8540(Q)
3 2-Methylnaphthalene	142			4.163	4.163	(1.119)	2419	0.17891	59.9353
4 1-Methylnaphthalene	142			4.227	4.222	(1.136)	1252	0.10167	34.0602(Q)
11 Phenanthrene	178			5.774	5.774	(1.003)	16073	0.51265	171.7367
12 Anthracene	178			5.810	5.810	(1.009)	3565	0.11626	38.9484
15 Fluoranthene	202			6.610	6.616	(1.148)	38250	1.11402	373.1949
16 Pyrene	202			6.780	6.780	(0.880)	33955	1.04344	349.5506
17 Benzo(a)anthracene	228			7.692	7.698	(0.998)	25009	0.71558	239.7190

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		----	-----	-----	-----	-----	-----
19 Chrysene	228		7.721	7.721	(1.002)	28210	0.80657	270.1987
20 Benzo(b)fluoranthene	252		8.533	8.539	(0.961)	39352	1.25378	420.0138
21 Benzo(k)fluoranthene	252		8.556	8.562	(0.964)	15233	0.47311	158.4895(Q)
22 Benzo(a)pyrene	252		8.821	8.827	(0.993)	22745	0.74606	249.9292
24 Indeno(1,2,3-cd)pyrene	276		10.039	10.045	(1.130)	14376	0.50127	167.9230(M)
25 Dibenzo(a,h)anthracene	278		10.056	10.062	(1.132)	5617	0.20023	67.0772(M)
26 Benzo(g,h,i)perylene	276		10.386	10.398	(1.170)	19774	0.65911	220.8005

QC Flag Legend

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

Data File: 1CC28021.D

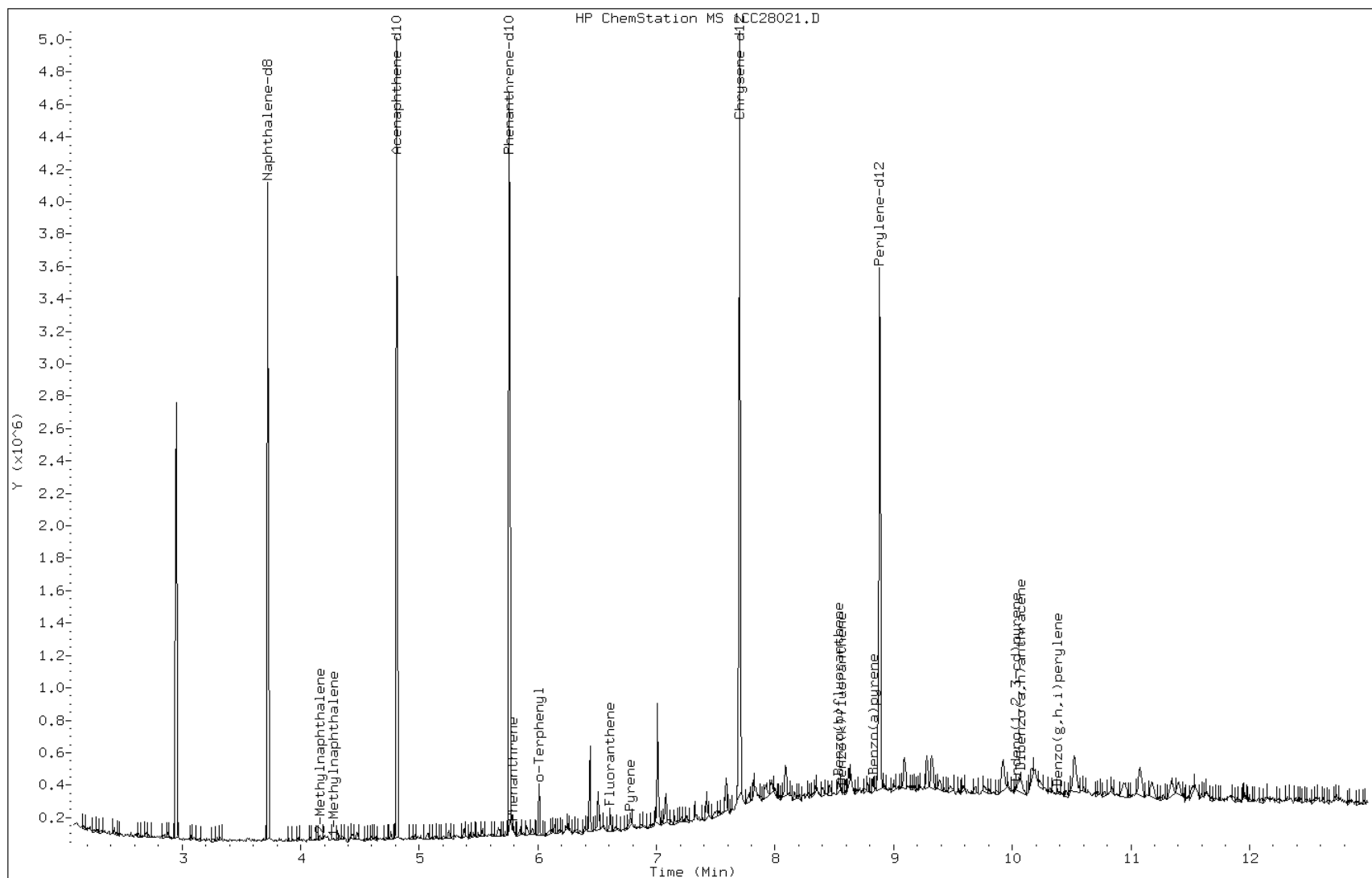
Date: 28-MAR-2013 17:31

Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

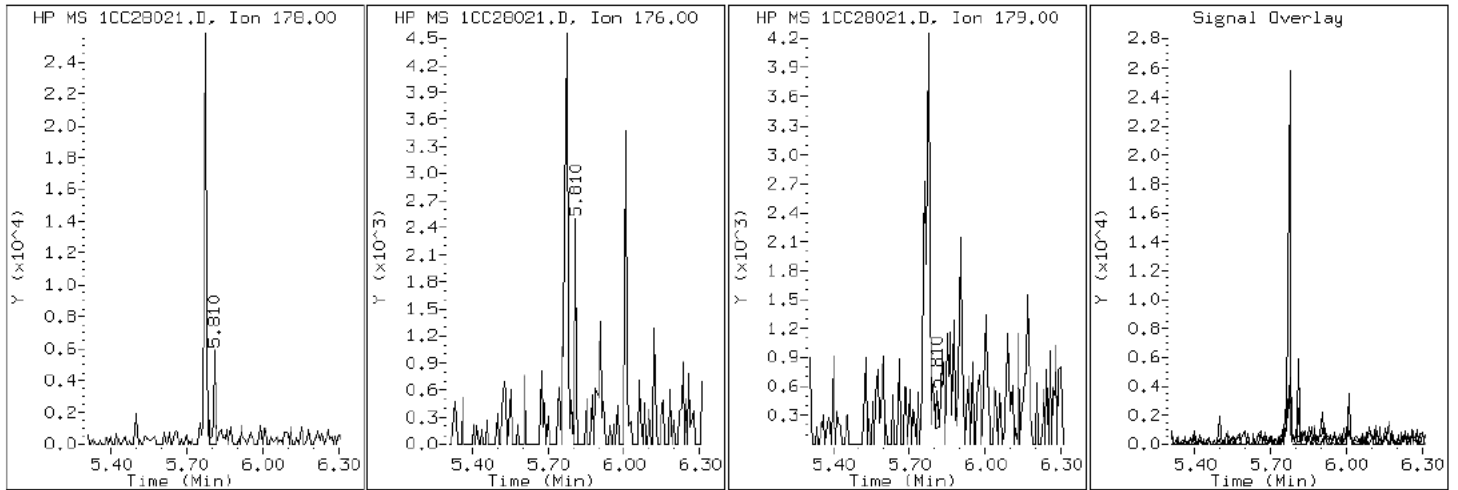
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

12 Anthracene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

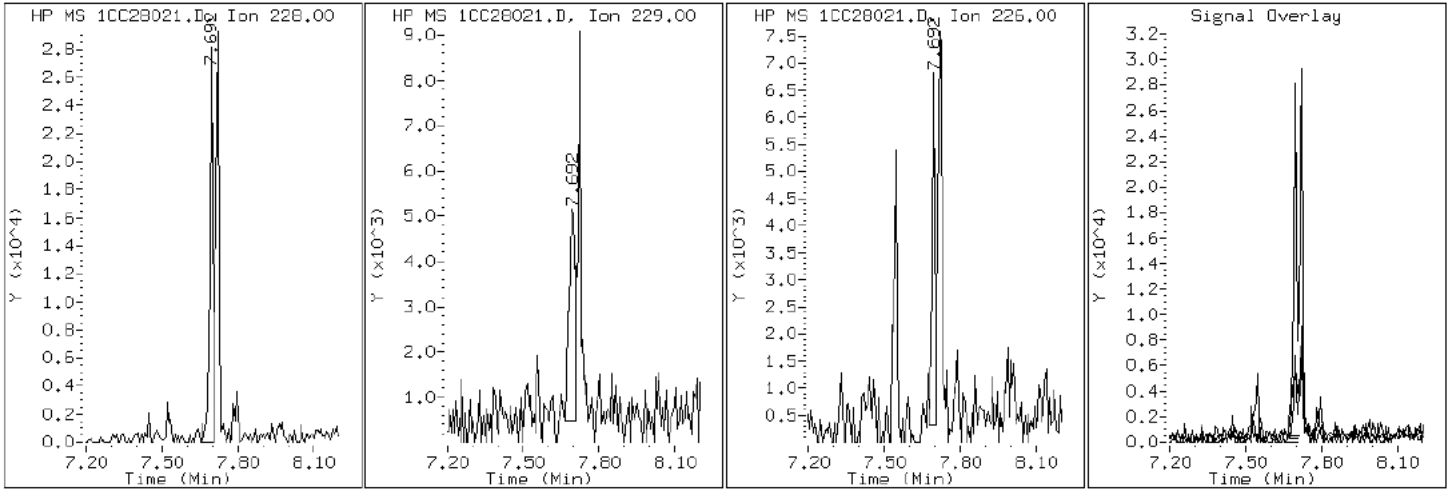
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

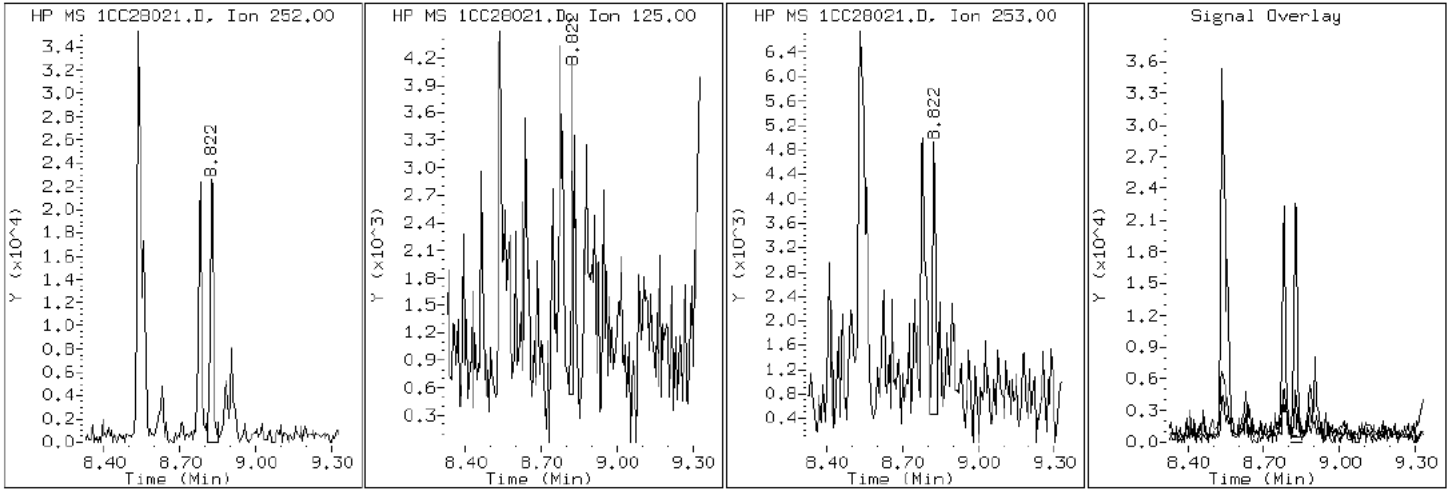
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

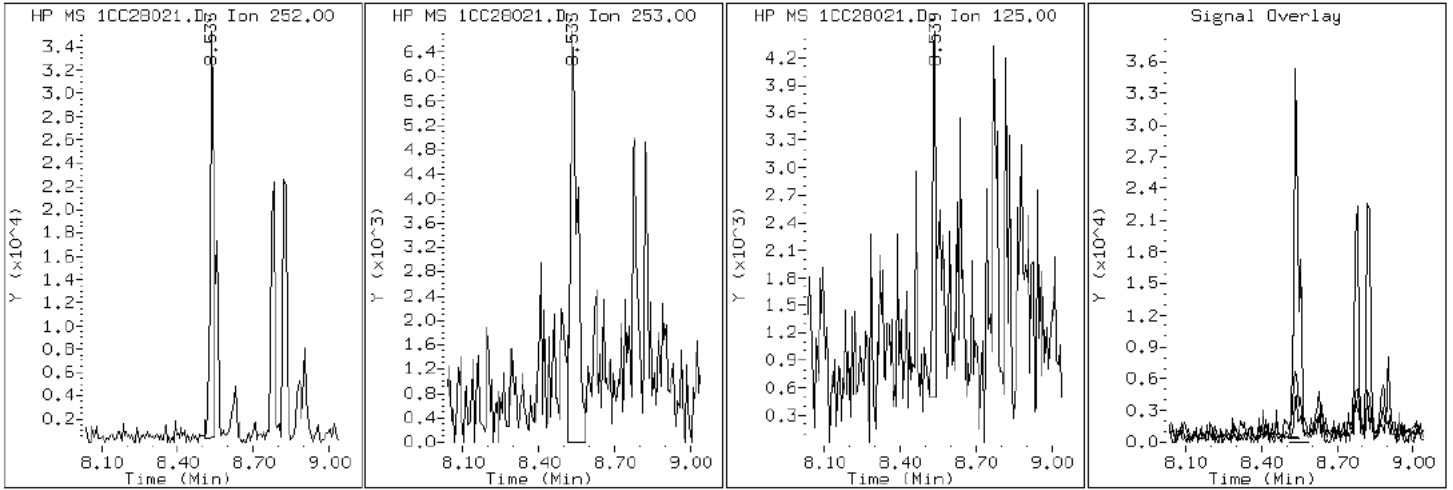
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

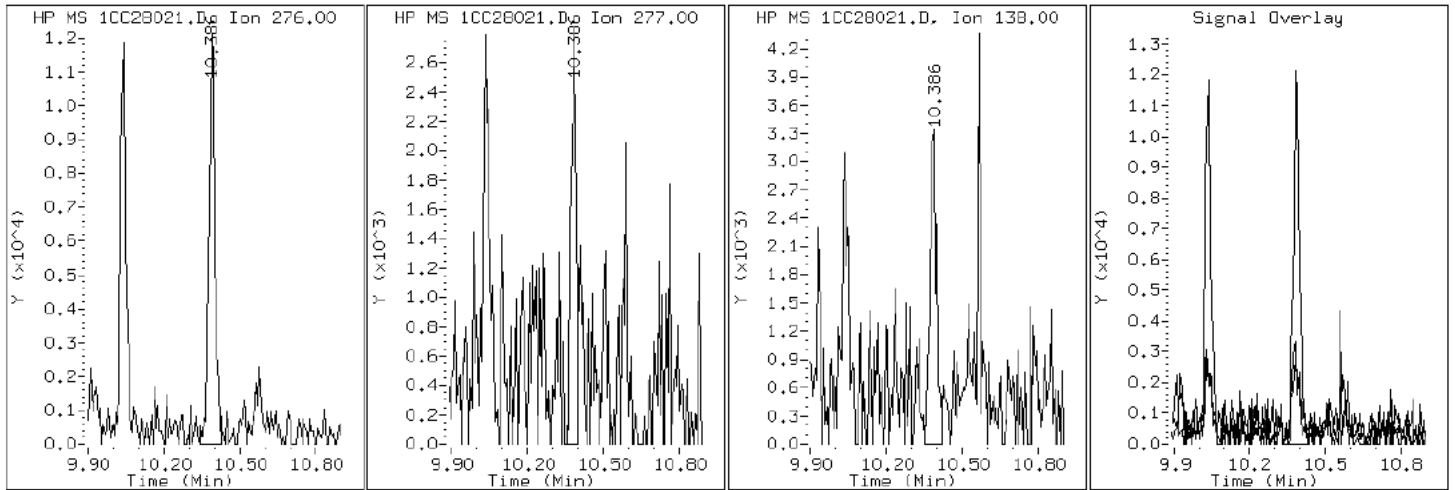
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

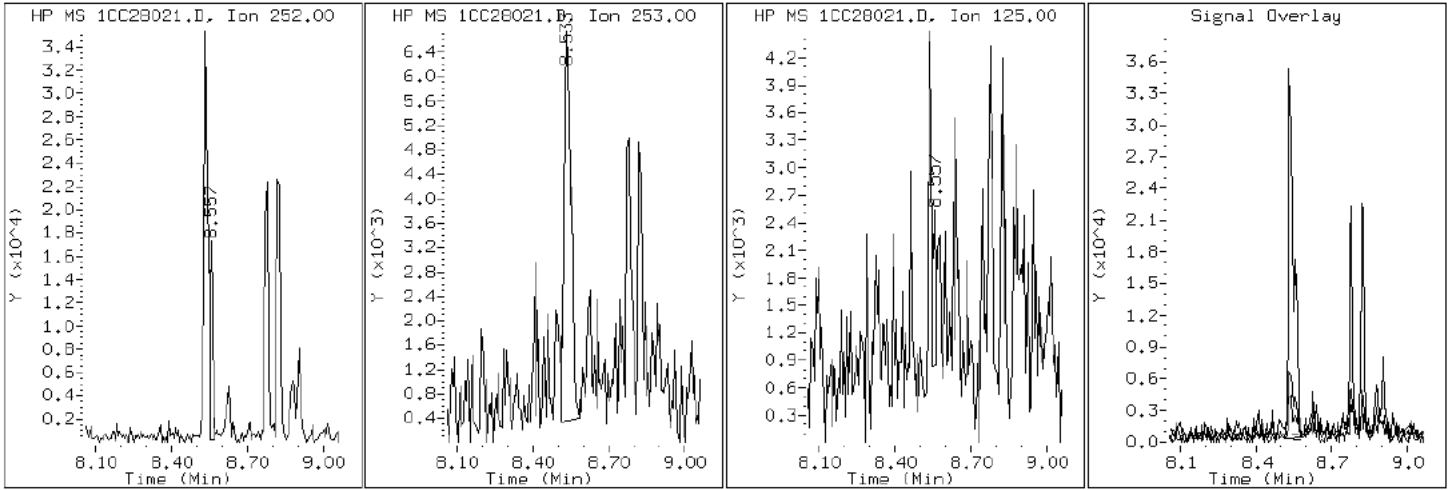
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

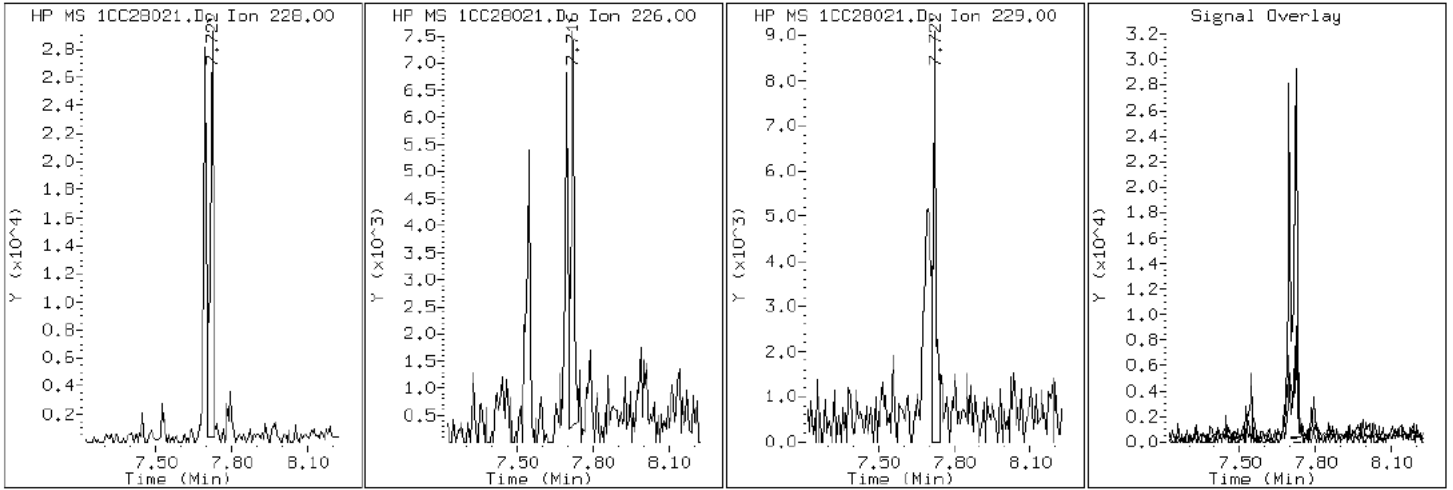
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

19 Chrysene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

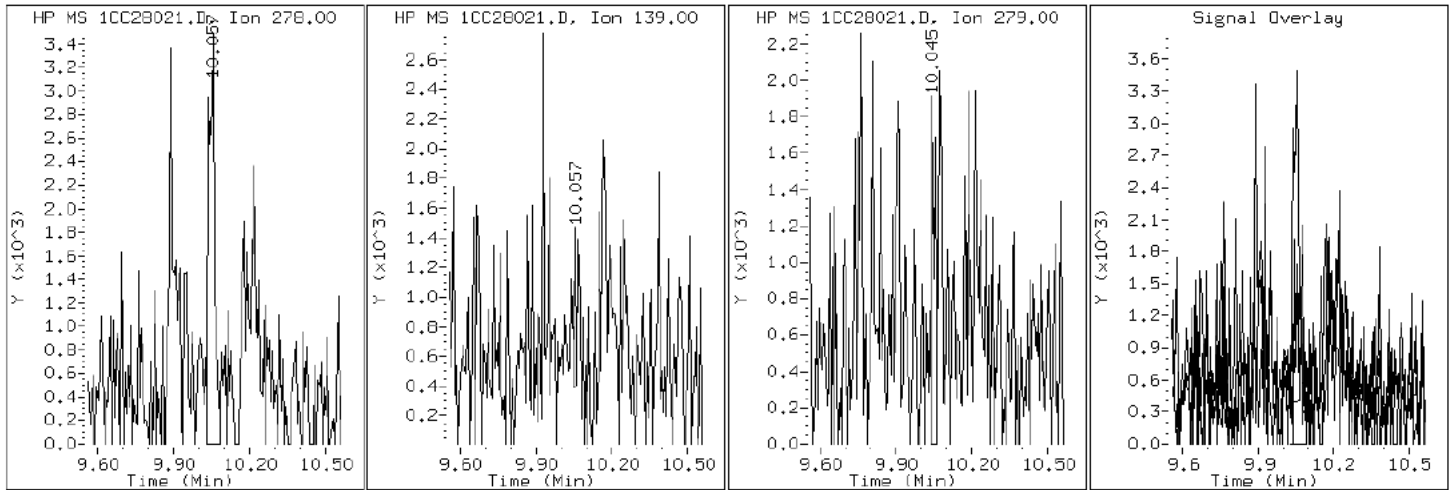
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

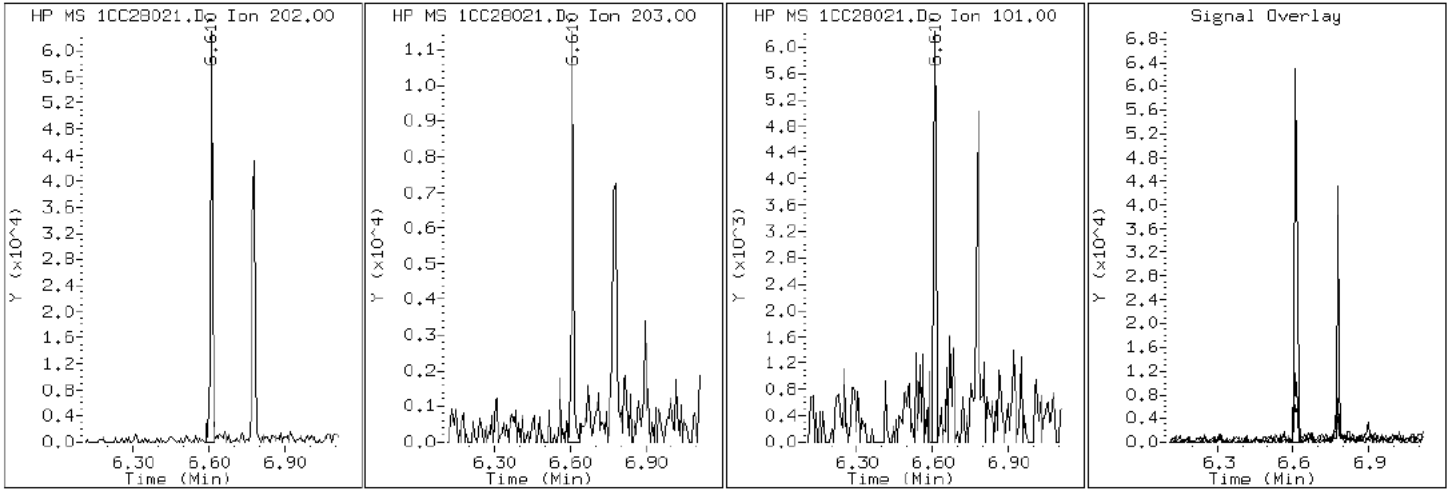
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

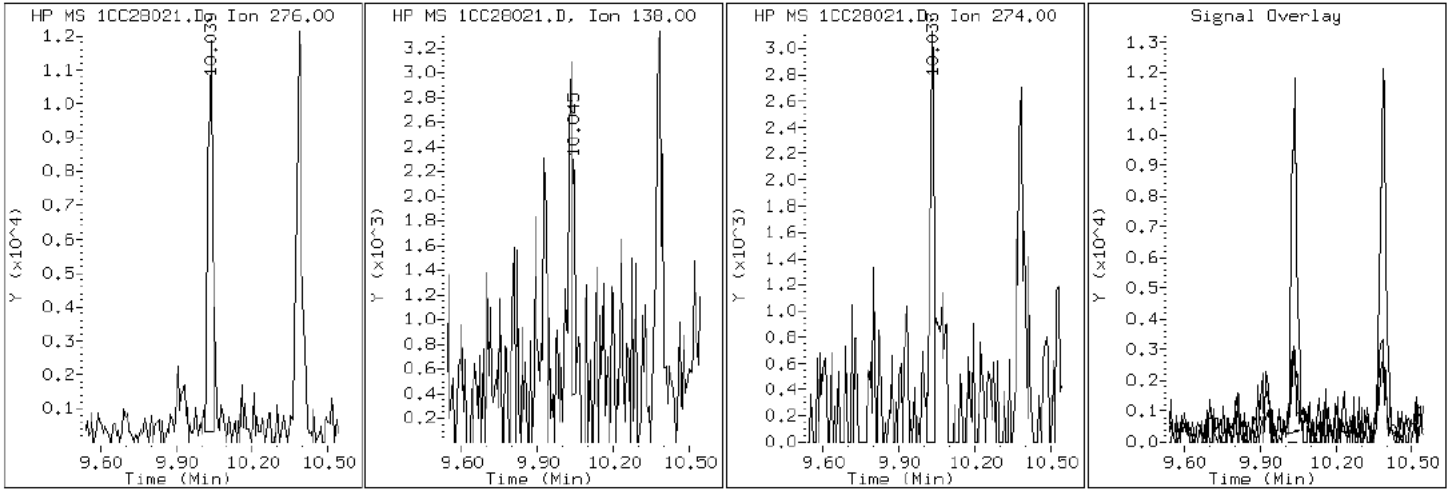
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

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



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

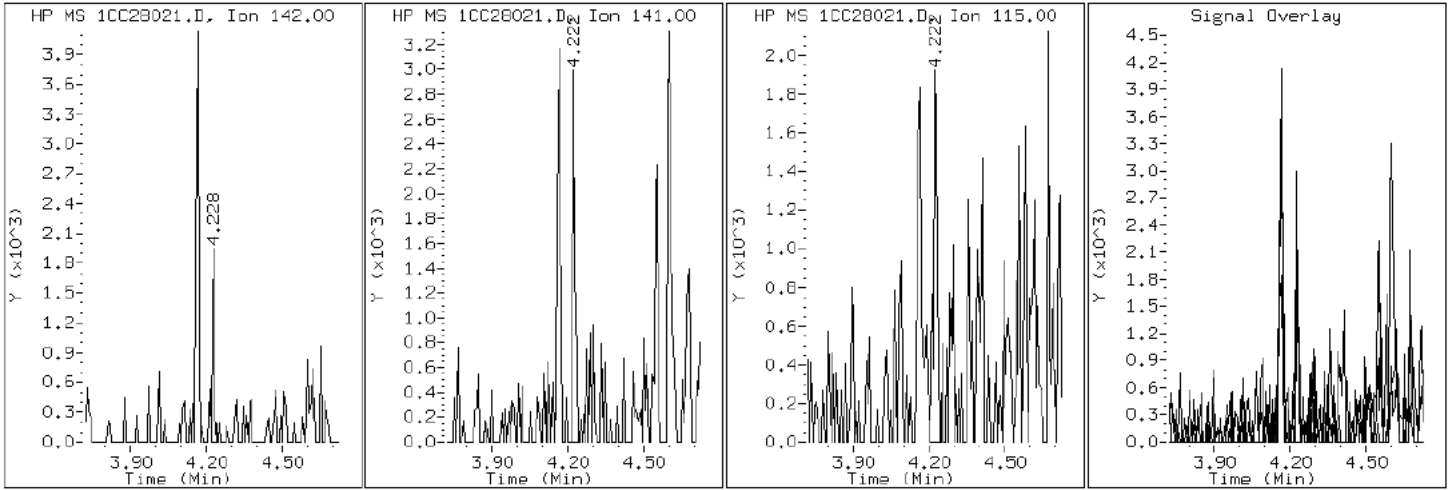
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

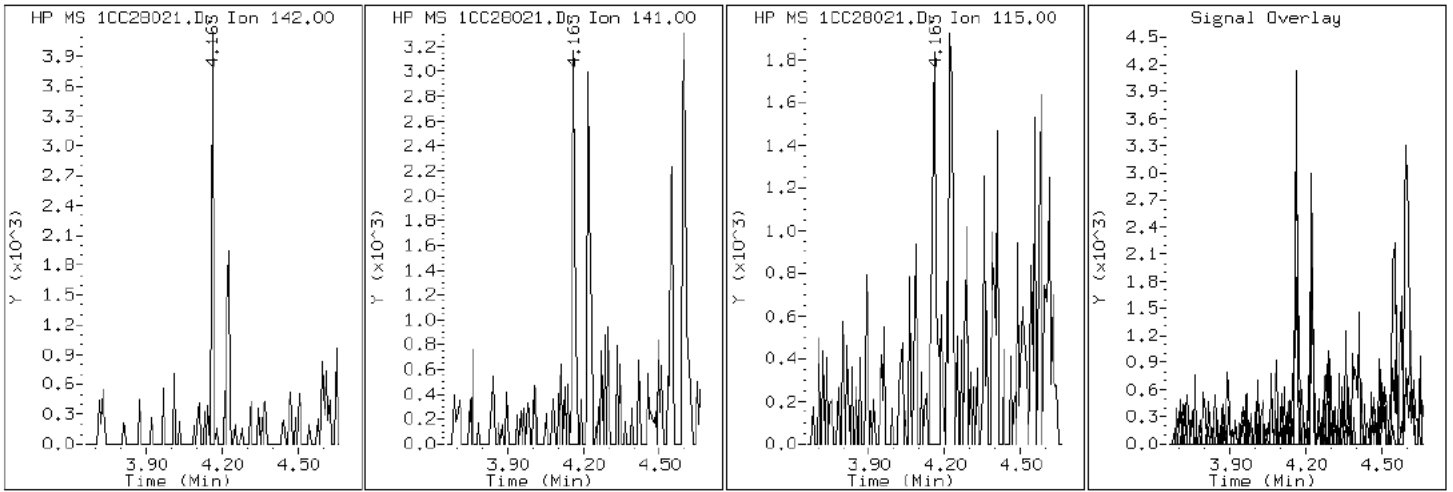
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

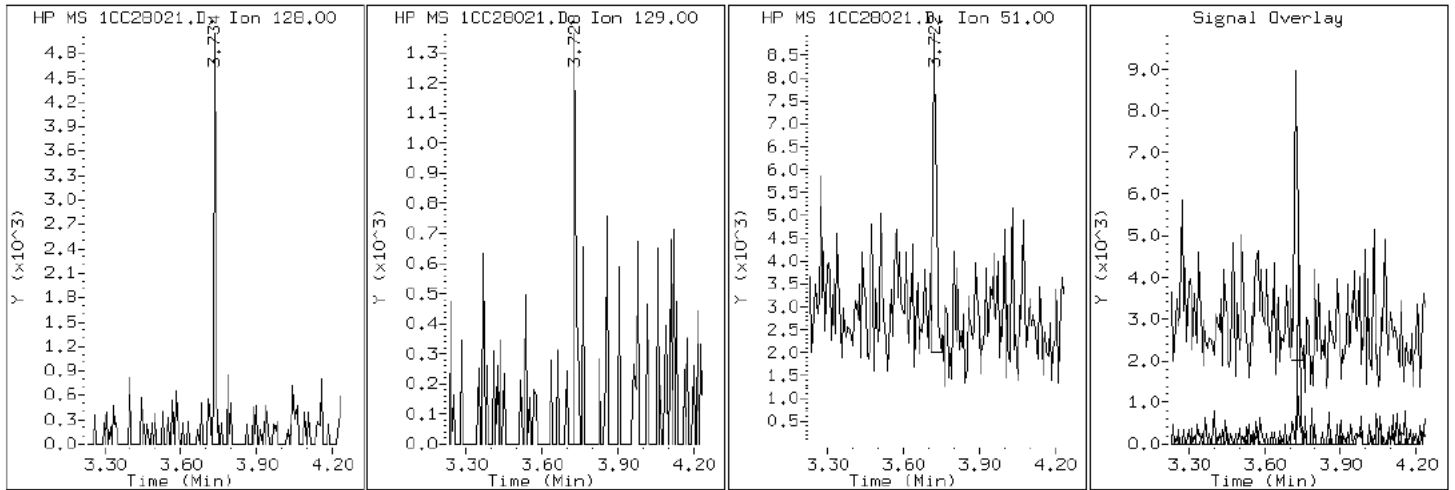
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

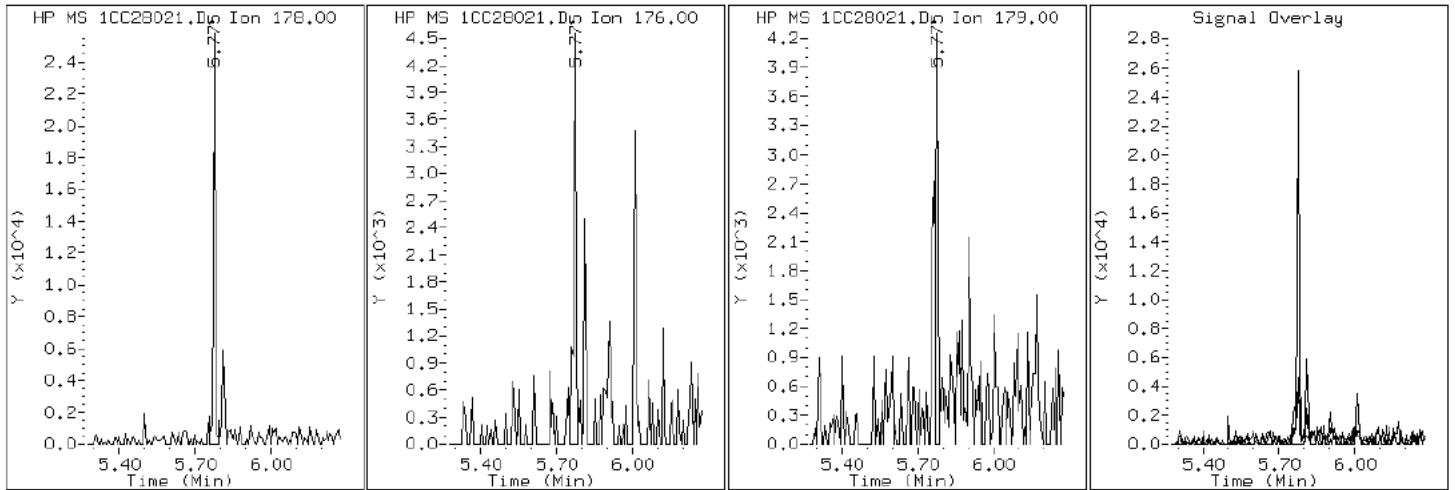
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28021.D

Date: 28-MAR-2013 17:31

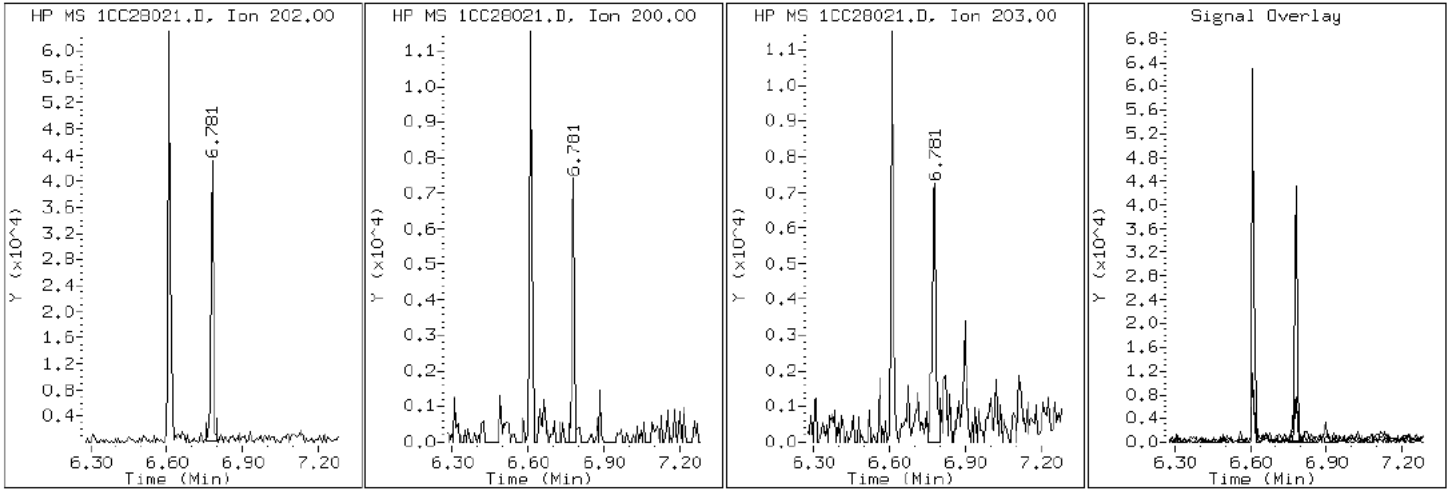
Client ID: CV1360V-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-2-a

Operator: SCC

16 Pyrene

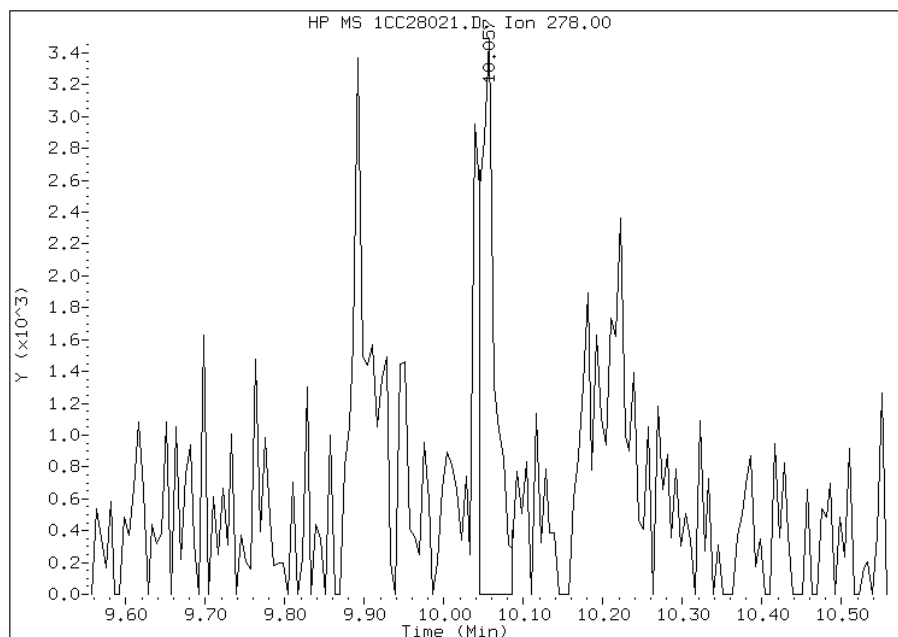


Manual Integration Report

Data File: 1CC28021.D
Inj. Date and Time: 28-MAR-2013 17:31
Instrument ID: BSMC5973.i
Client ID: CV1360V-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/01/2013

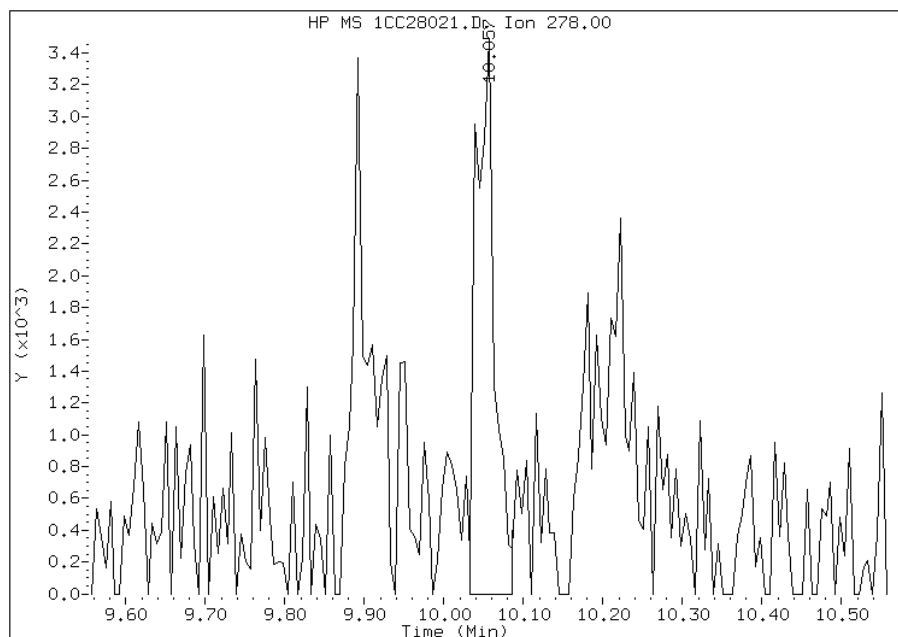
Processing Integration Results

RT: 10.06
Response: 4477
Amount: 0
Conc: 53



Manual Integration Results

RT: 10.06
Response: 5617
Amount: 0
Conc: 67



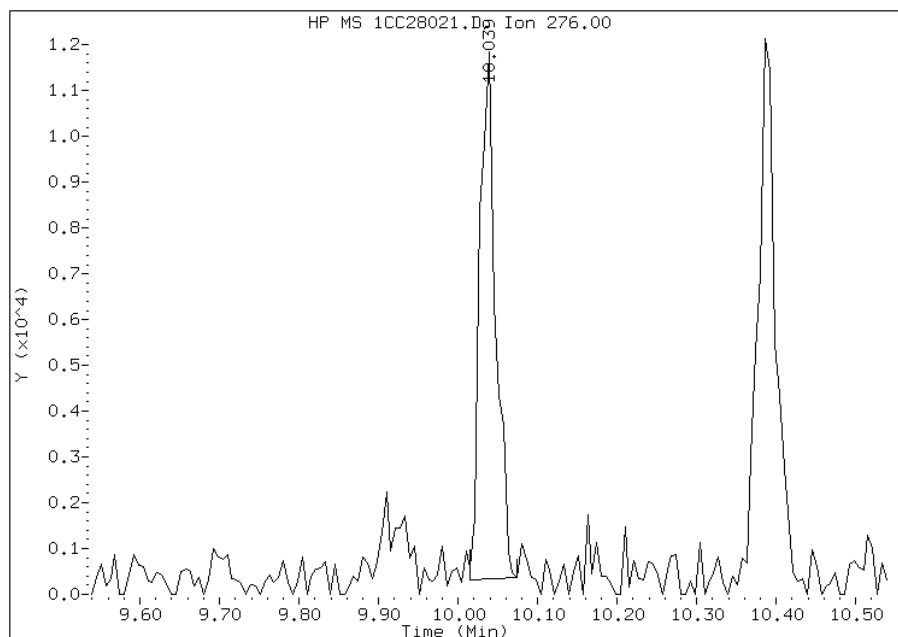
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 12:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28021.D
Inj. Date and Time: 28-MAR-2013 17:31
Instrument ID: BSMC5973.i
Client ID: CV1360V-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

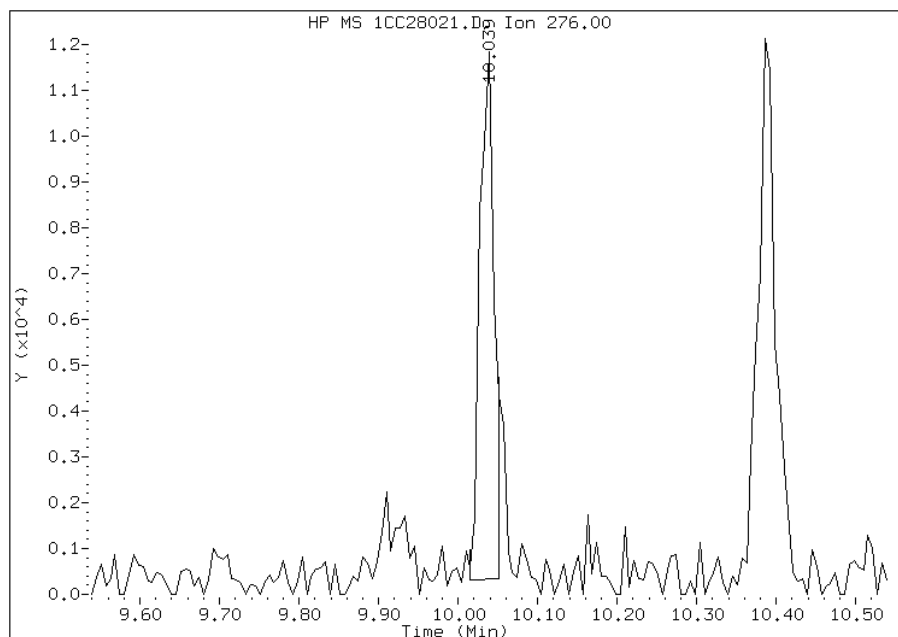
Processing Integration Results

RT: 10.04
Response: 15807
Amount: 1
Conc: 185



Manual Integration Results

RT: 10.04
Response: 14376
Amount: 1
Conc: 168



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 12:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1360V-CSD Lab Sample ID: 680-88592-3
 Matrix: Solid Lab File ID: 1CC28022.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 08:30
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 14.94 (g) Date Analyzed: 03/28/2013 17:49
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 24.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	210	U	210	27
120-12-7	Anthracene	49		45	22
56-55-3	Benzo[a]anthracene	260		43	21
50-32-8	Benzo[a]pyrene	310		56	28
205-99-2	Benzo[b]fluoranthene	530		65	33
191-24-2	Benzo[g,h,i]perylene	230		110	24
207-08-9	Benzo[k]fluoranthene	200		43	19
218-01-9	Chrysene	330		48	24
53-70-3	Dibenz(a,h)anthracene	68	J	110	22
206-44-0	Fluoranthene	530		110	21
86-73-7	Fluorene	26	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	170		110	38
90-12-0	1-Methylnaphthalene	43	J	210	24
91-57-6	2-Methylnaphthalene	91	J	210	38
91-20-3	Naphthalene	83	J	210	24
85-01-8	Phenanthrene	210		43	21
129-00-0	Pyrene	460		110	20

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032813.b\1CC28022.D
 Lab Smp Id: 680-88592-A-3-A Client Smp ID: CV1360V-CSD
 Inj Date : 28-MAR-2013 17:49
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-3-a
 Misc Info : 680-88592-A-3-A
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 22
 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	14.940	Weight Extracted
M	24.833	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.722	3.722	(1.000)	723750	40.0000		
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	571510	40.0000		
* 10 Phenanthrene-d10	188		5.757	5.763	(1.000)	1057922	40.0000		
\$ 14 o-Terphenyl	230		6.010	6.010	(1.044)	29847	1.86861	665.5798	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1223691	40.0000		
* 23 Perylene-d12	264		8.880	8.886	(1.000)	1234178	40.0000		
2 Naphthalene	128		3.733	3.733	(1.003)	4378	0.23235	82.7620(Q)	
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	3201	0.25469	90.7165	
4 1-Methylnaphthalene	142		4.222	4.222	(1.134)	1381	0.12064	42.9724	
9 Fluorene	166		5.151	5.151	(1.071)	1314	0.07255	25.8407	
11 Phenanthrene	178		5.774	5.774	(1.003)	17837	0.58309	207.6908	
12 Anthracene	178		5.810	5.810	(1.009)	4081	0.13641	48.5876(Q)	
13 Carbazole	167		5.916	5.921	(1.028)	3575	0.13443	47.8815	
15 Fluoranthene	202		6.610	6.616	(1.148)	50106	1.49569	532.7496	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.780	6.780	(0.880)	42621	1.29606	461.6445
17 Benzo(a)anthracene	228	7.692	7.698	(0.998)	25621	0.72544	258.3925
19 Chrysene	228	7.721	7.721	(1.002)	33058	0.93531	333.1458
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.962)	48031	1.48916	530.4246(M)
21 Benzo(k)fluoranthene	252	8.557	8.562	(0.964)	18256	0.55175	196.5287(QM)
22 Benzo(a)pyrene	252	8.827	8.827	(0.994)	27405	0.87475	311.5775
24 Indeno(1,2,3-cd)pyrene	276	10.033	10.045	(1.130)	14050	0.47673	169.8062(M)
25 Dibenzo(a,h)anthracene	278	10.045	10.062	(1.131)	5539	0.19214	68.4396
26 Benzo(g,h,i)perylene	276	10.386	10.398	(1.170)	20174	0.65437	233.0788

QC Flag Legend

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

Data File: 1CC28022.D

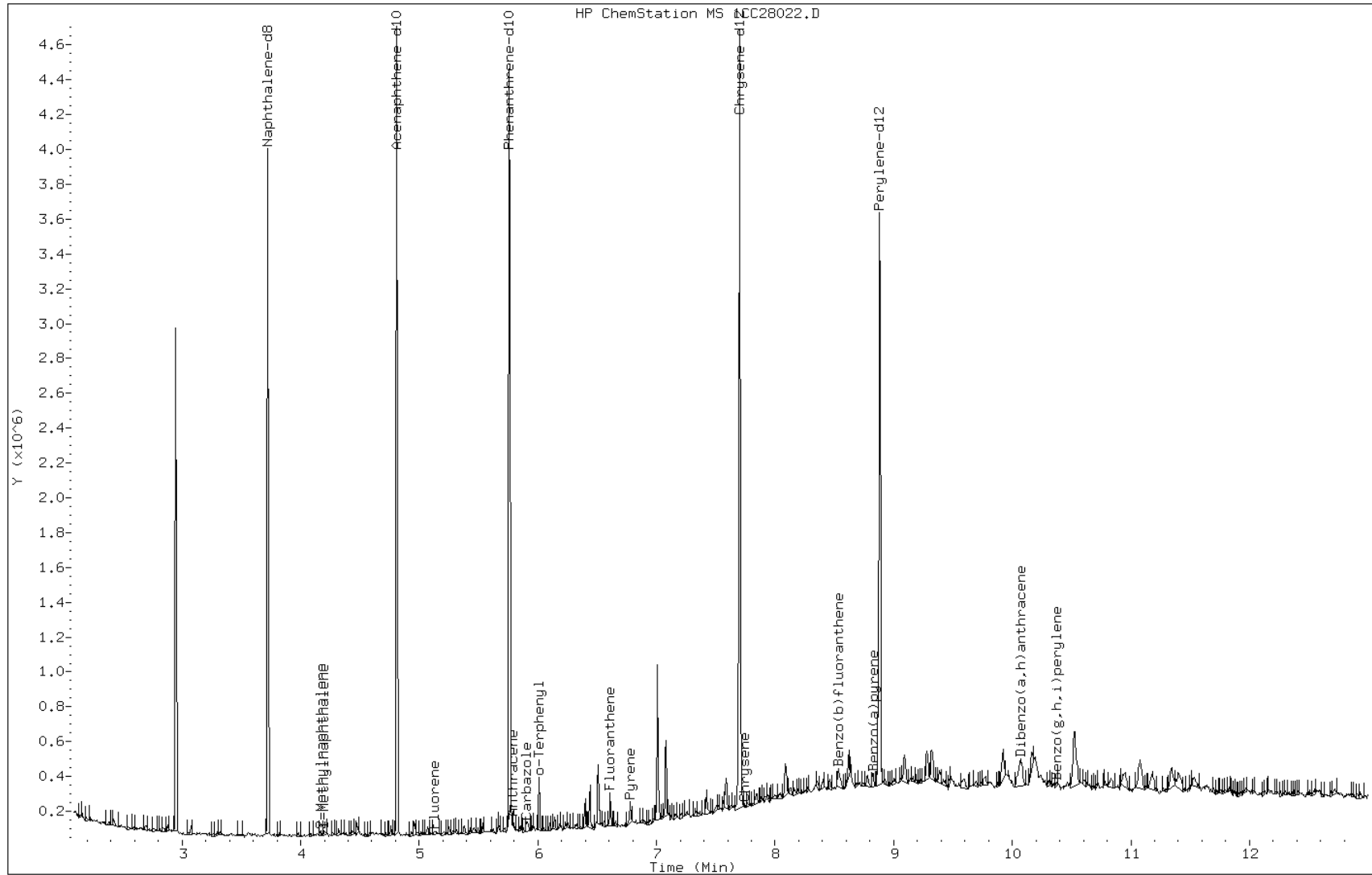
Date: 28-MAR-2013 17:49

Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

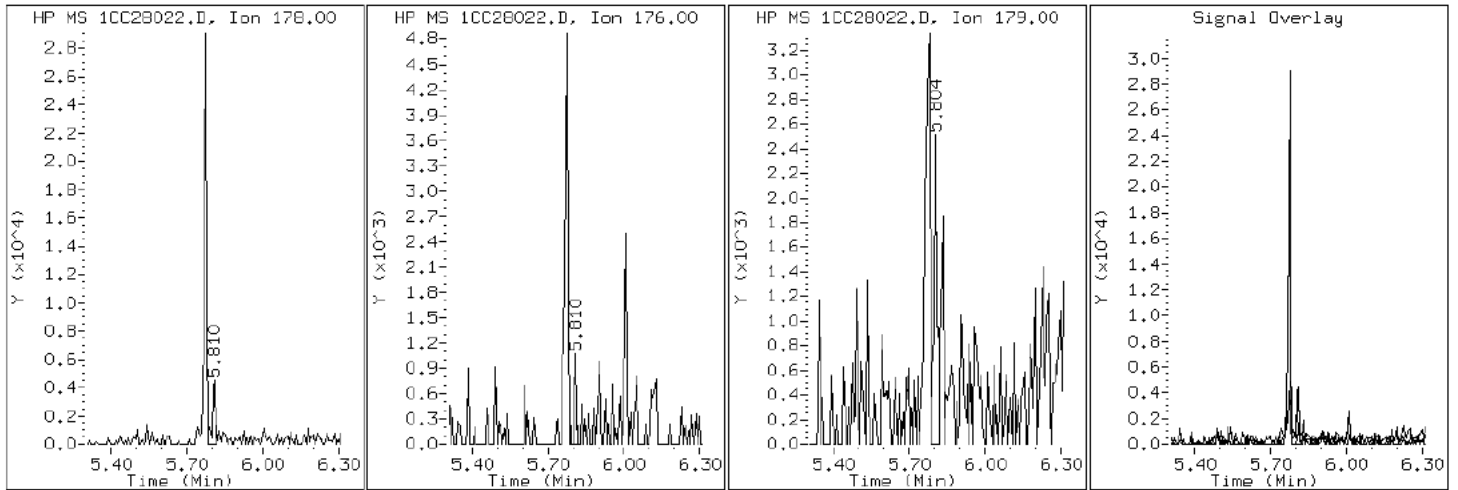
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

12 Anthracene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

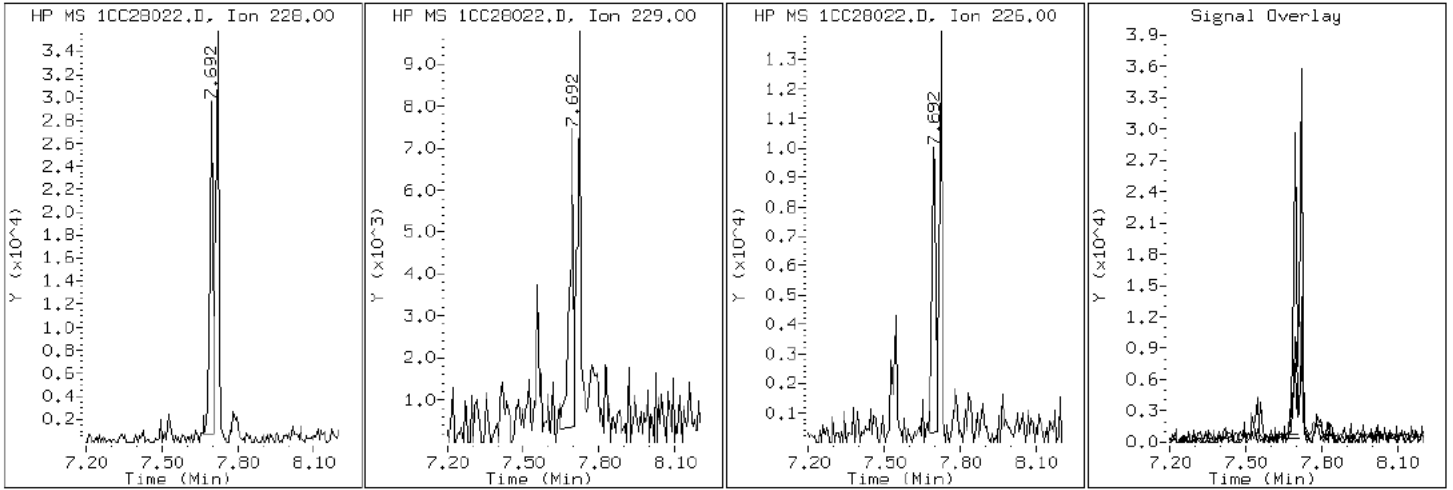
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

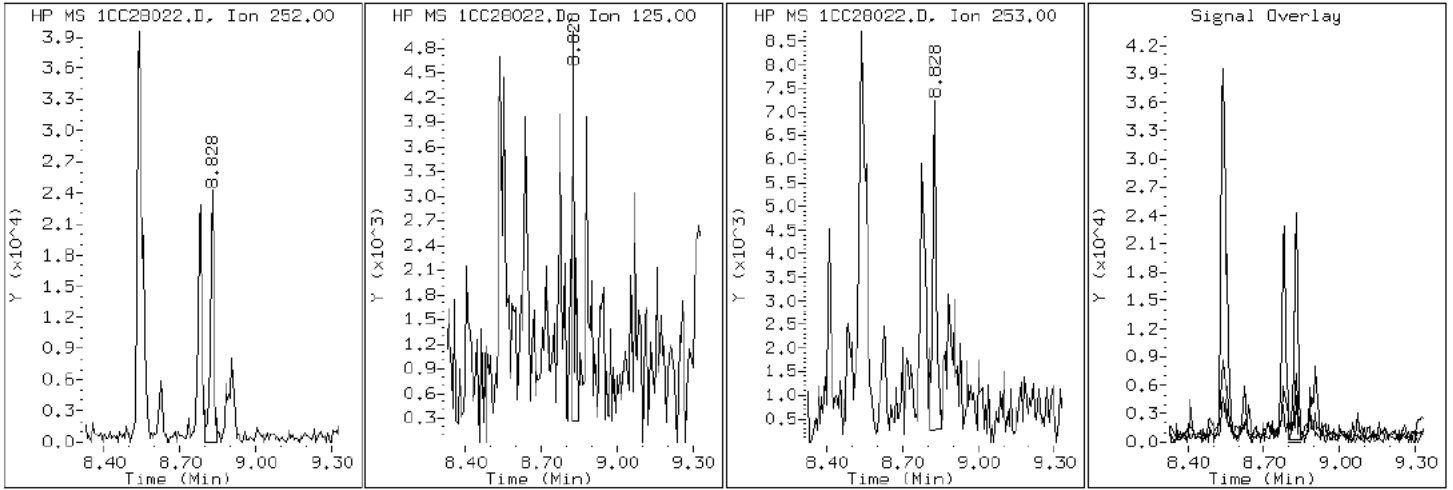
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

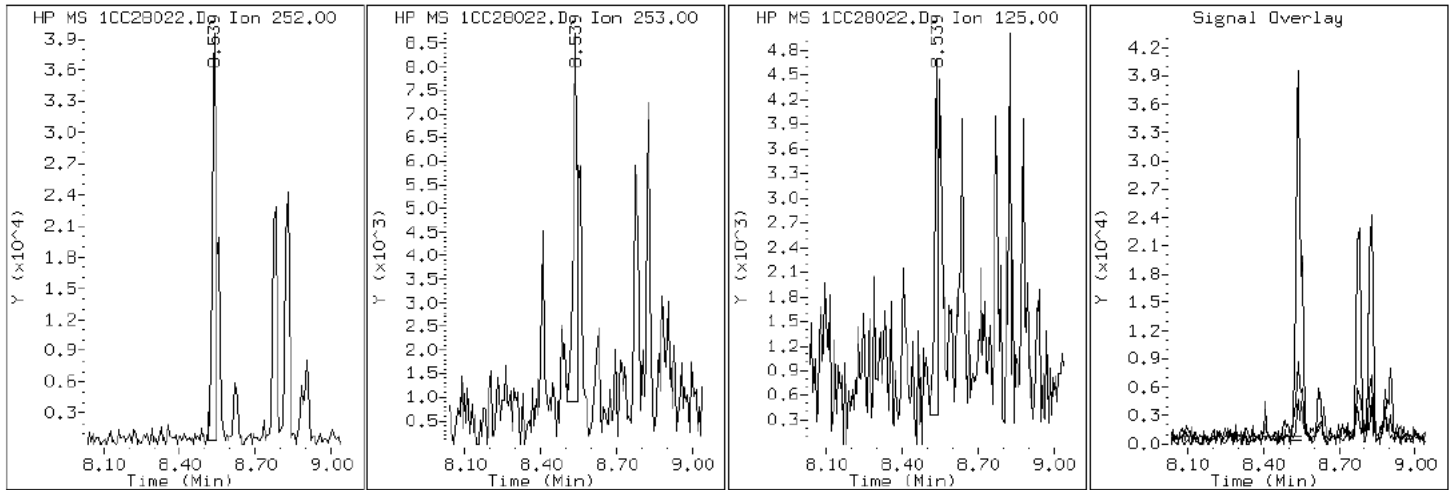
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

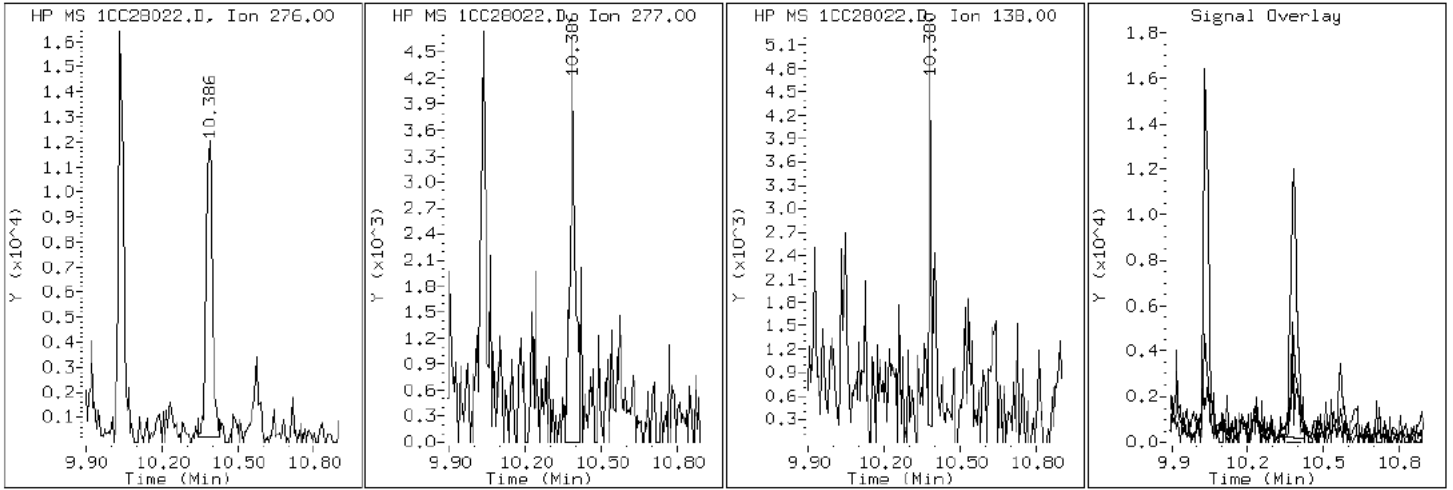
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

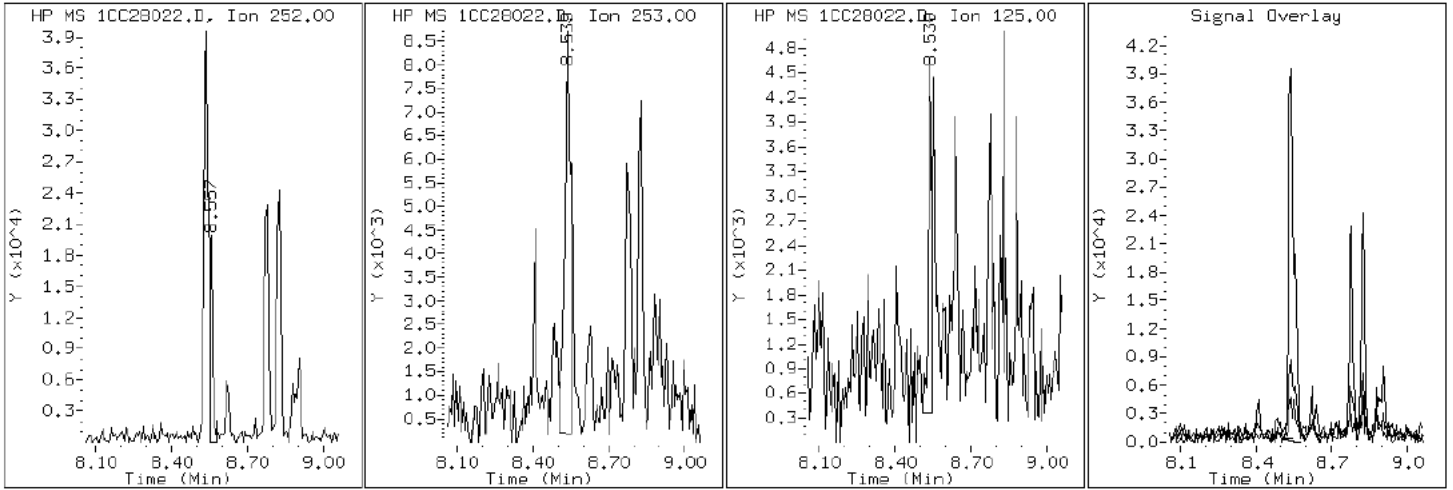
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

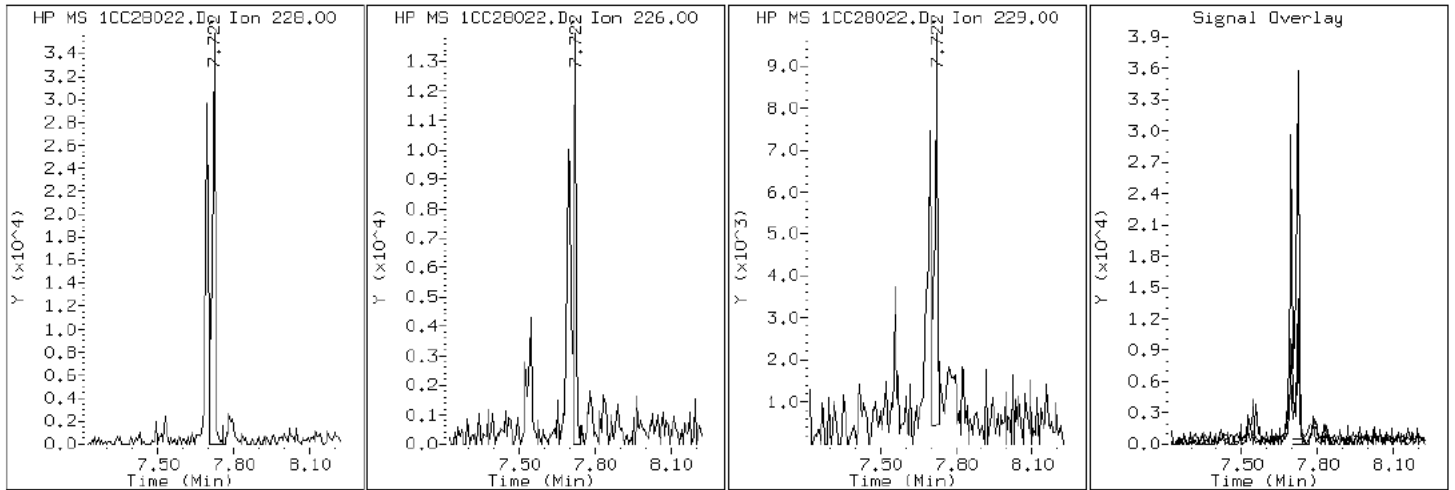
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

19 Chrysene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

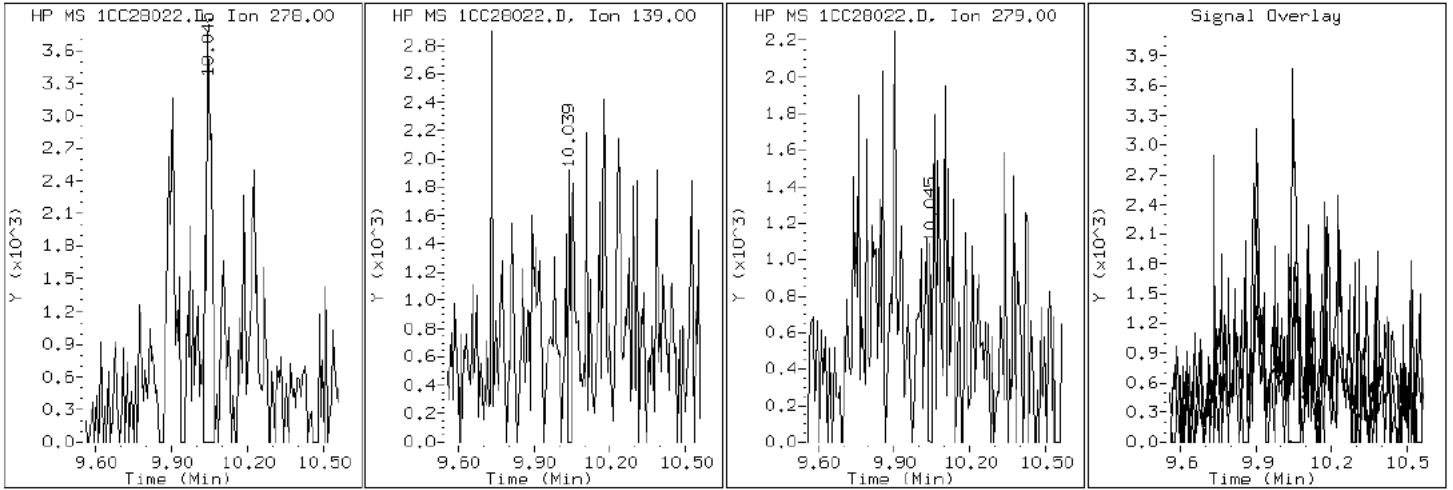
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

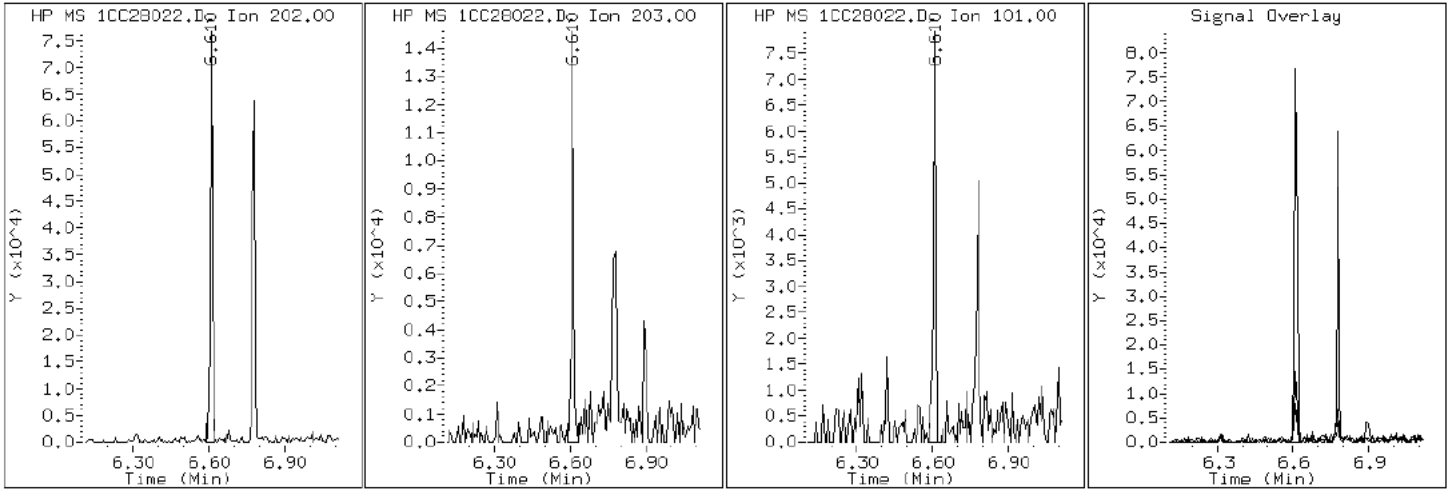
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

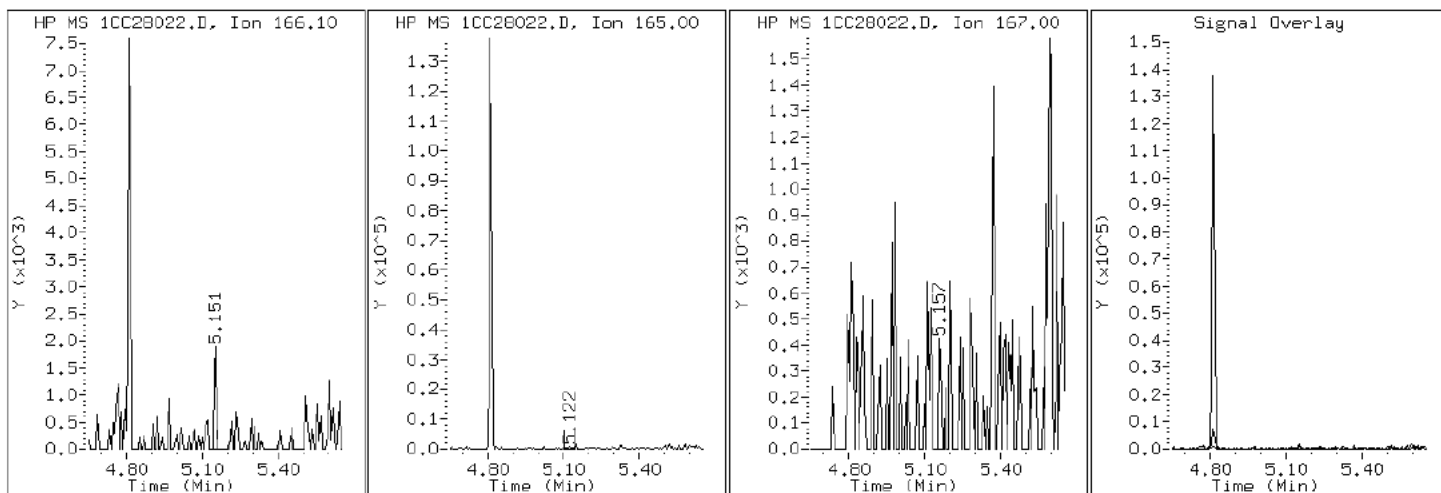
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

9 Fluorene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

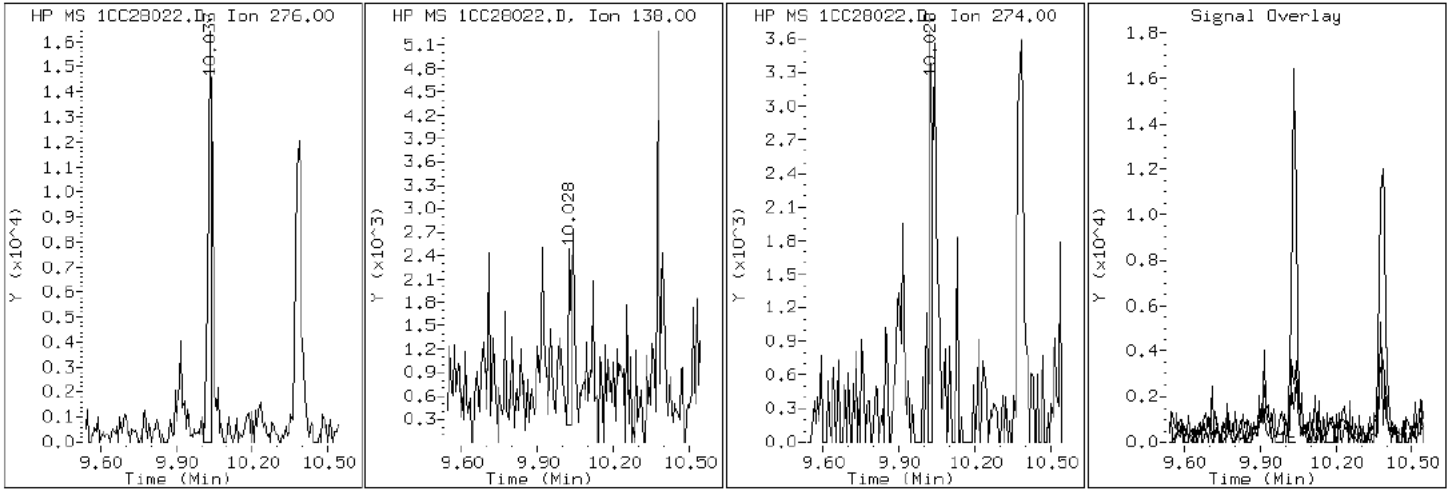
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

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



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

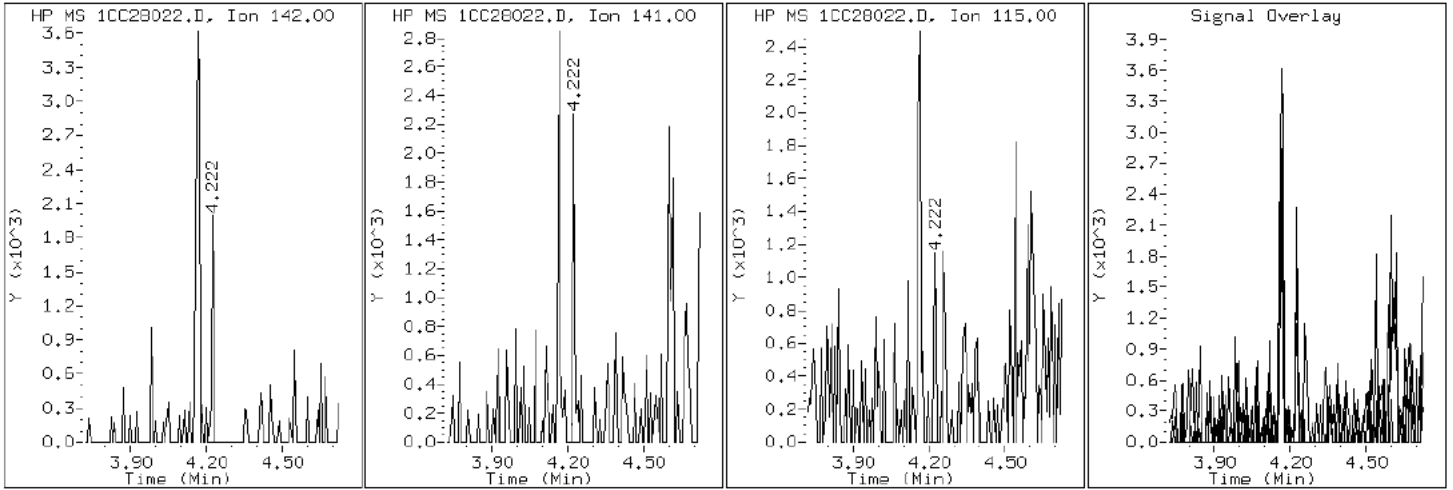
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

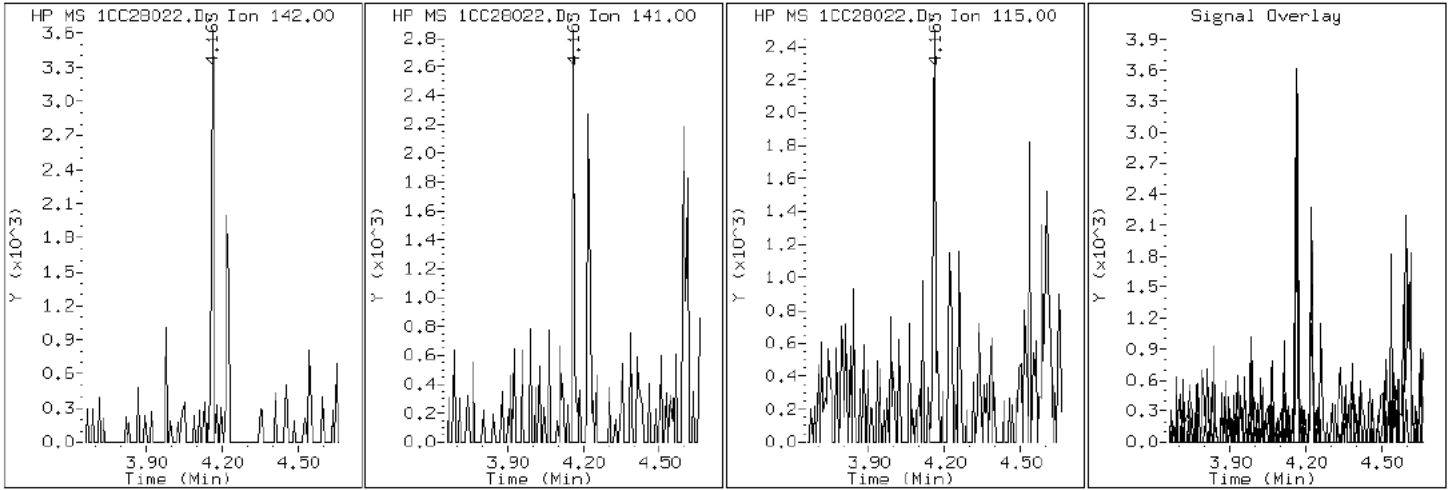
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

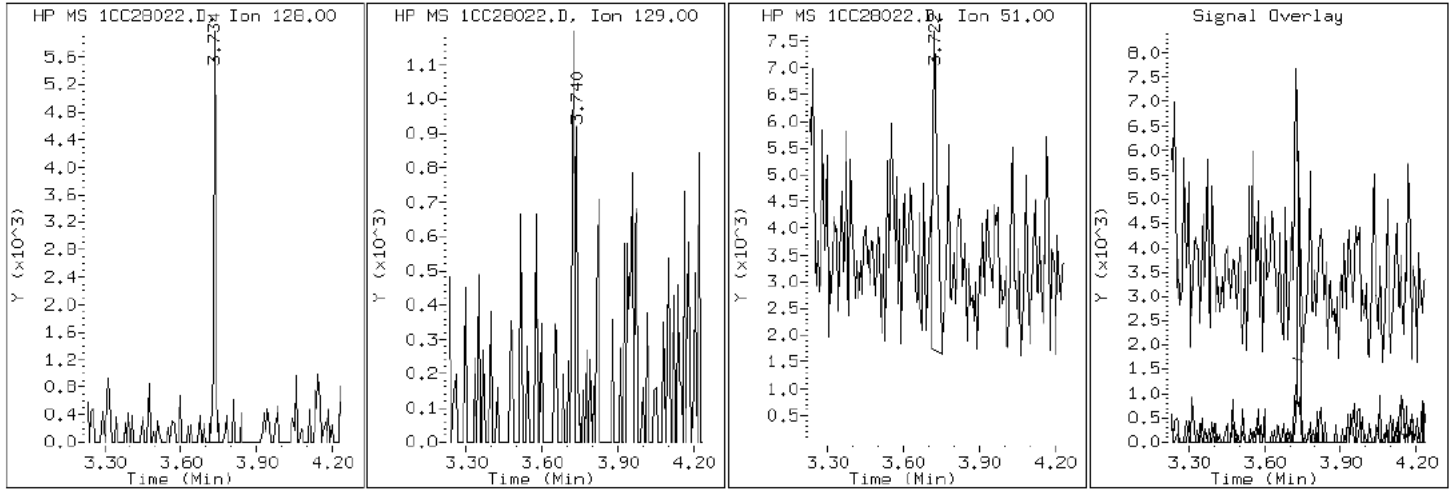
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

2 Naphthalene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

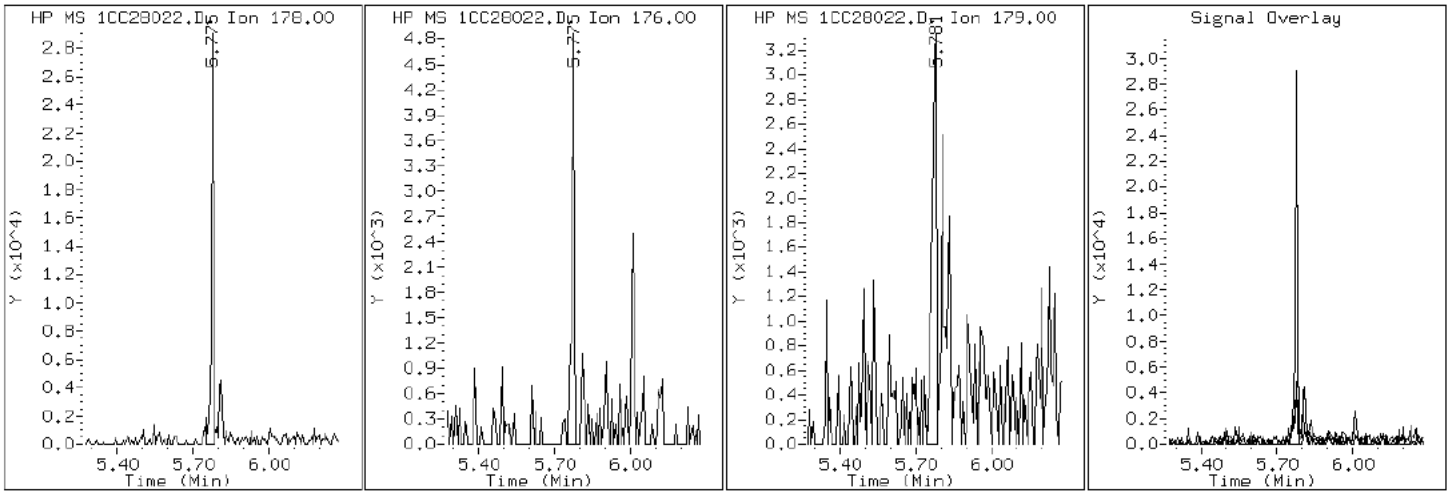
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28022.D

Date: 28-MAR-2013 17:49

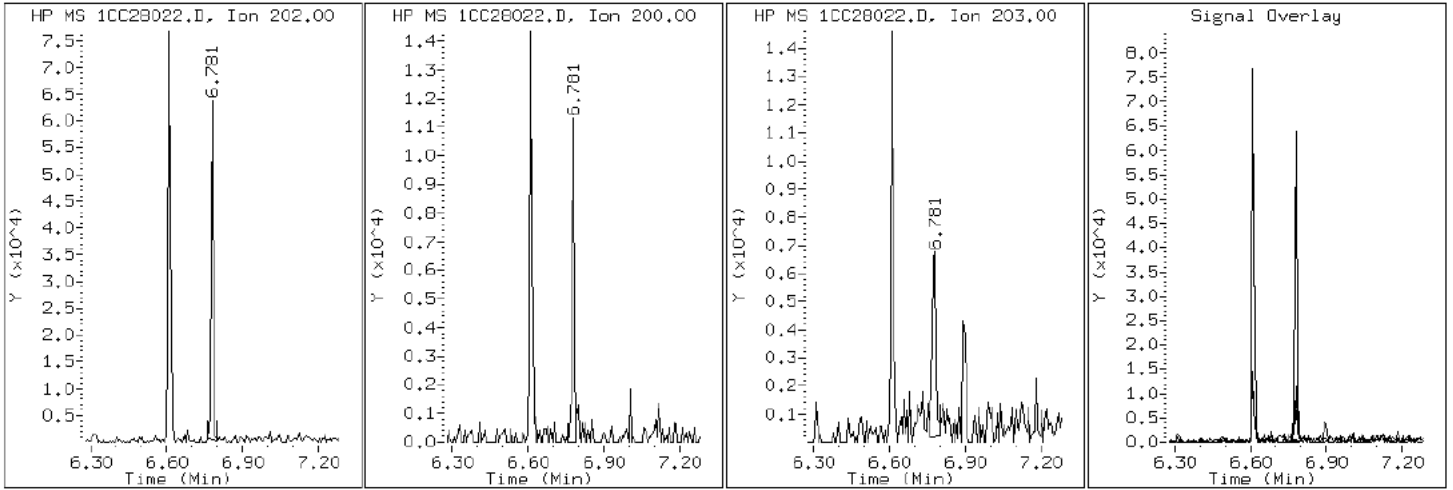
Client ID: CV1360V-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-3-a

Operator: SCC

16 Pyrene

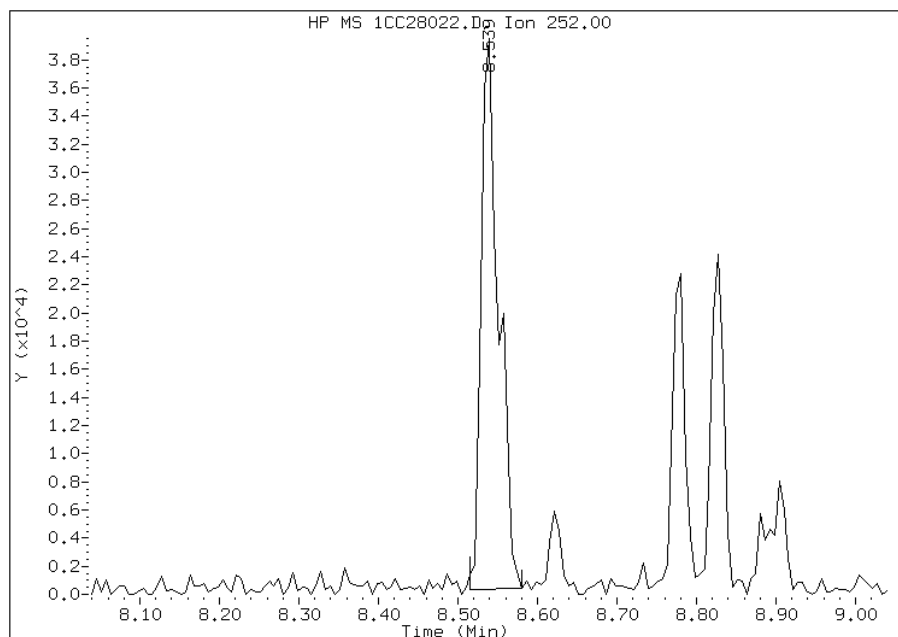


Manual Integration Report

Data File: 1CC28022.D
Inj. Date and Time: 28-MAR-2013 17:49
Instrument ID: BSMC5973.i
Client ID: CV1360V-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/01/2013

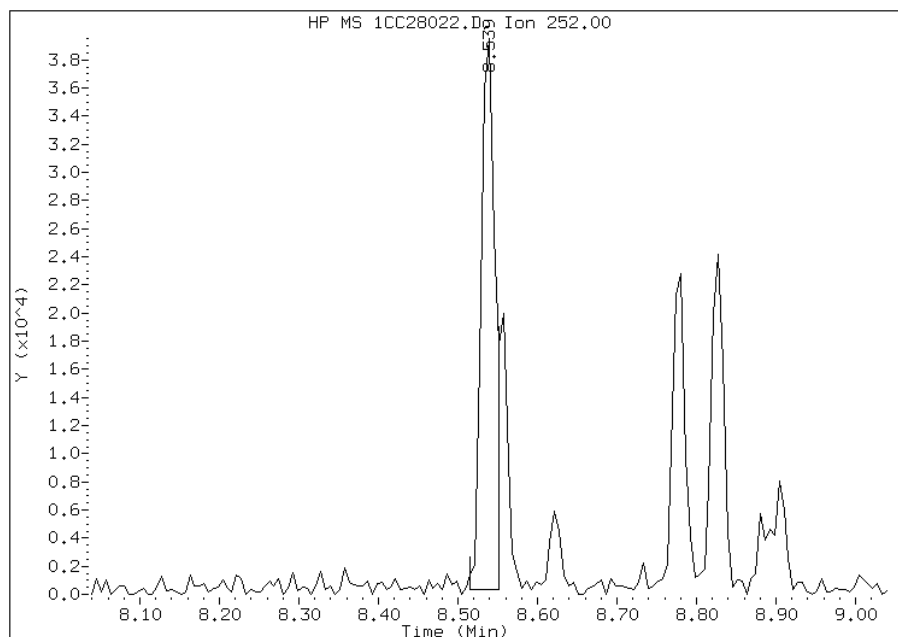
Processing Integration Results

RT: 8.54
Response: 59442
Amount: 2
Conc: 656



Manual Integration Results

RT: 8.54
Response: 48031
Amount: 1
Conc: 530



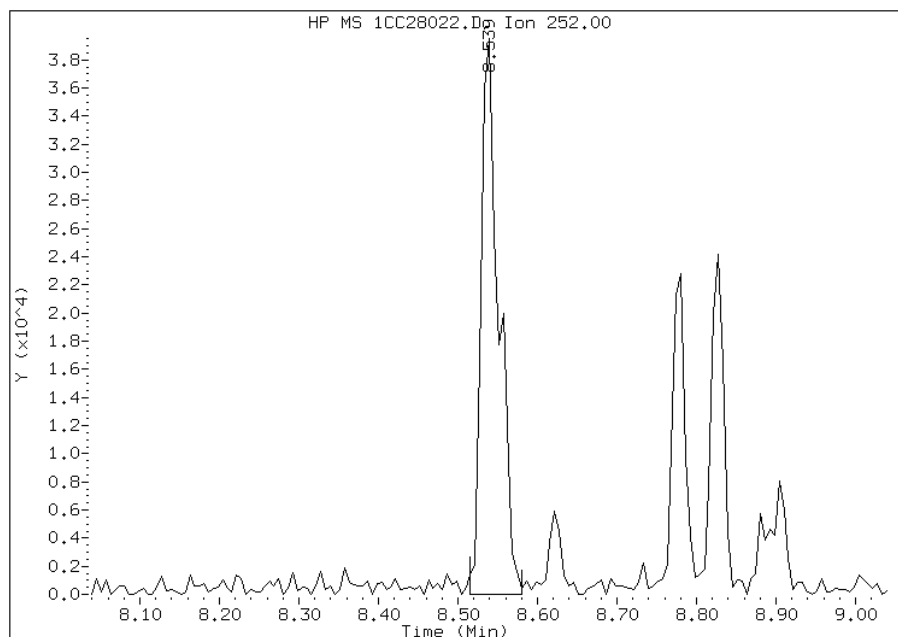
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC28022.D
Inj. Date and Time: 28-MAR-2013 17:49
Instrument ID: BSMC5973.i
Client ID: CV1360V-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/01/2013

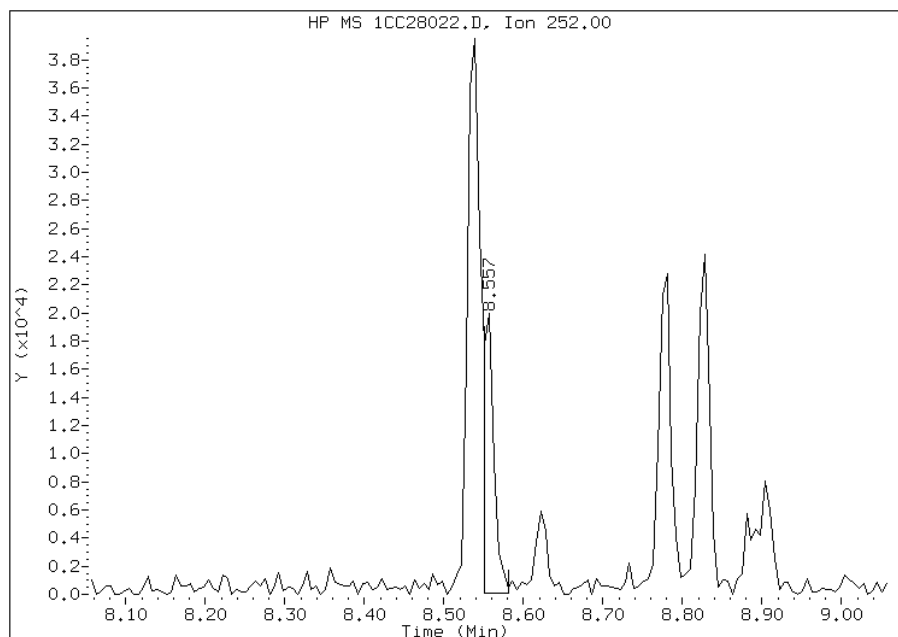
Processing Integration Results

RT: 8.54
Response: 61013
Amount: 2
Conc: 657



Manual Integration Results

RT: 8.56
Response: 18256
Amount: 1
Conc: 197



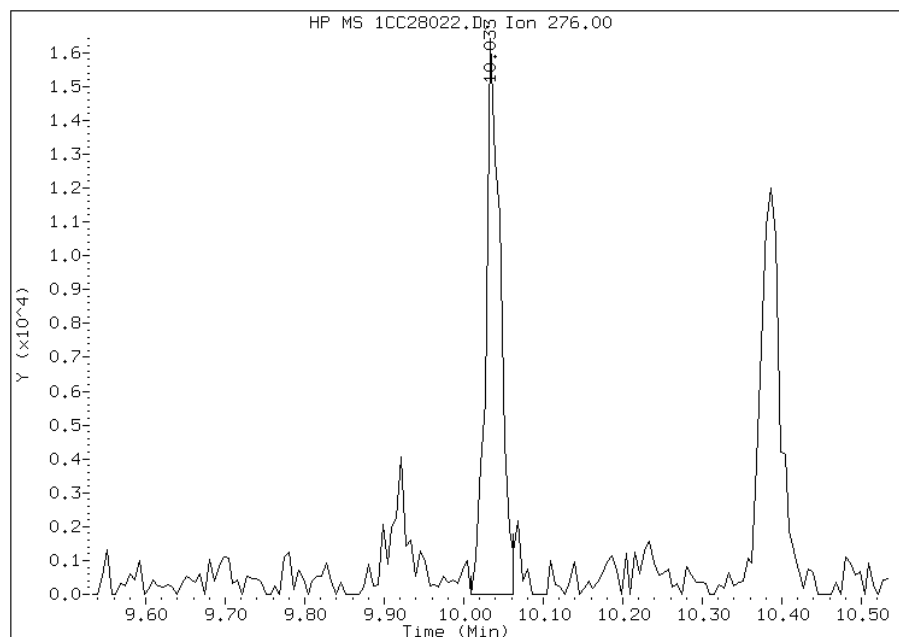
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28022.D
Inj. Date and Time: 28-MAR-2013 17:49
Instrument ID: BSMC5973.i
Client ID: CV1360V-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

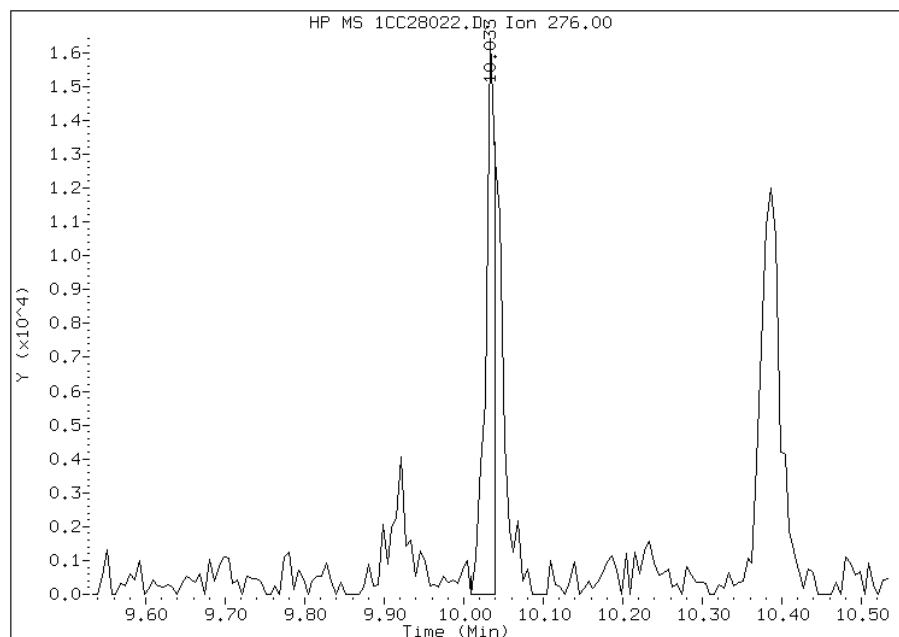
Processing Integration Results

RT: 10.03
Response: 20690
Amount: 1
Conc: 250



Manual Integration Results

RT: 10.03
Response: 14050
Amount: 0
Conc: 170



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1360W-CS Lab Sample ID: 680-88592-4
 Matrix: Solid Lab File ID: 1CC28023.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 08:50
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.10(g) Date Analyzed: 03/28/2013 18:08
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 39.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	72	J	160	33
208-96-8	Acenaphthylene	9.2	J	65	8.2
120-12-7	Anthracene	82		14	6.9
56-55-3	Benzo[a]anthracene	350		13	6.4
50-32-8	Benzo[a]pyrene	320		17	8.5
205-99-2	Benzo[b]fluoranthene	530		20	10
191-24-2	Benzo[g,h,i]perylene	220		33	7.2
207-08-9	Benzo[k]fluoranthene	230		13	5.9
218-01-9	Chrysene	410		15	7.3
53-70-3	Dibenz(a,h)anthracene	73		33	6.7
206-44-0	Fluoranthene	840		33	6.5
86-73-7	Fluorene	54		33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	210		33	12
90-12-0	1-Methylnaphthalene	27	J	65	7.2
91-57-6	2-Methylnaphthalene	35	J	65	12
91-20-3	Naphthalene	63	J	65	7.2
85-01-8	Phenanthrene	530		13	6.4
129-00-0	Pyrene	660		33	6.0

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28023.D
 Lab Smp Id: 680-88592-A-4-A Client Smp ID: CV1360W-CS
 Inj Date : 28-MAR-2013 18:08
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-4-a
 Misc Info : 680-88592-A-4-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 23
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	39.133	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.721	3.722	(1.000)	749432	40.0000	
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	603430	40.0000	
* 10 Phenanthrene-d10	188		5.762	5.763	(1.000)	1115512	40.0000	
\$ 14 o-Terphenyl	230		6.010	6.010	(1.043)	117427	6.97214	758.5839
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1230923	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1212028	40.0000	
2 Naphthalene	128		3.733	3.733	(1.003)	11211	0.57461	62.5191
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	4169	0.32034	34.8534
4 1-Methylnaphthalene	142		4.221	4.222	(1.134)	2985	0.25184	27.4002
5 Acenaphthylene	152		4.727	4.722	(0.983)	2053	0.08439	9.1814
7 Acenaphthene	154		4.833	4.833	(1.005)	9952	0.65814	71.6068
9 Fluorene	166		5.151	5.151	(1.071)	9480	0.49572	53.9350
11 Phenanthrene	178		5.774	5.774	(1.002)	157393	4.87954	530.9053
12 Anthracene	178		5.810	5.810	(1.008)	23747	0.75278	81.9038

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.915	5.921	(1.027)	29393	1.04818	114.0438
15 Fluoranthene	202	6.609	6.616	(1.147)	272642	7.71835	839.7739
16 Pyrene	202	6.780	6.780	(0.880)	201652	6.09602	663.2607
17 Benzo(a)anthracene	228	7.692	7.698	(0.998)	115796	3.25940	354.6297
19 Chrysene	228	7.721	7.721	(1.002)	132672	3.73162	406.0081
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	153930	4.85970	528.7462
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.963)	68638	2.11237	229.8301
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	89706	2.91569	317.2340
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.045	(1.130)	56261	1.94388	211.4982(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.062	(1.132)	18912	0.66803	72.6834
26 Benzo(g,h,i)perylene	276	10.392	10.398	(1.169)	60049	1.98336	215.7936

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC28023.D

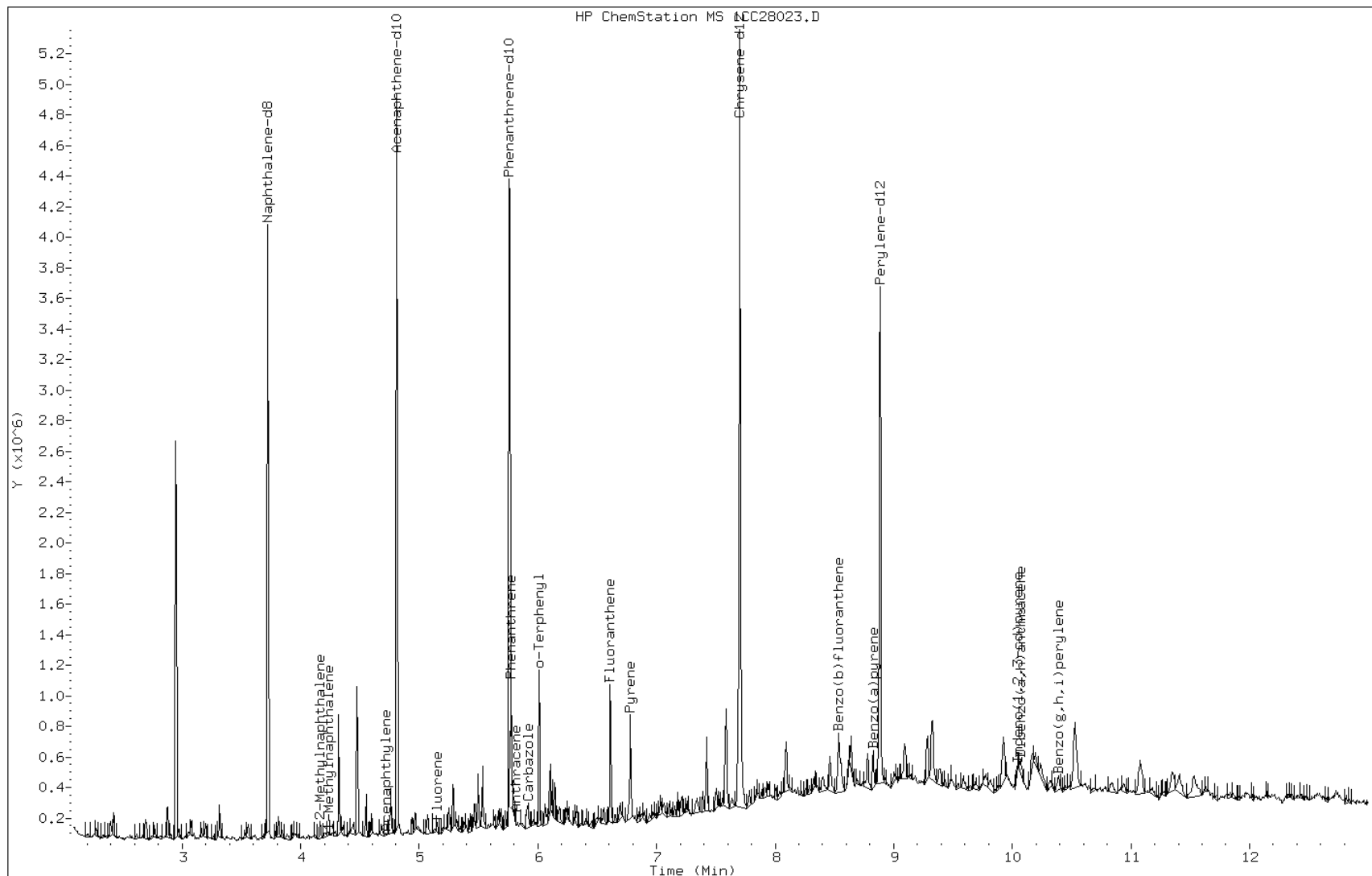
Date: 28-MAR-2013 18:08

Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

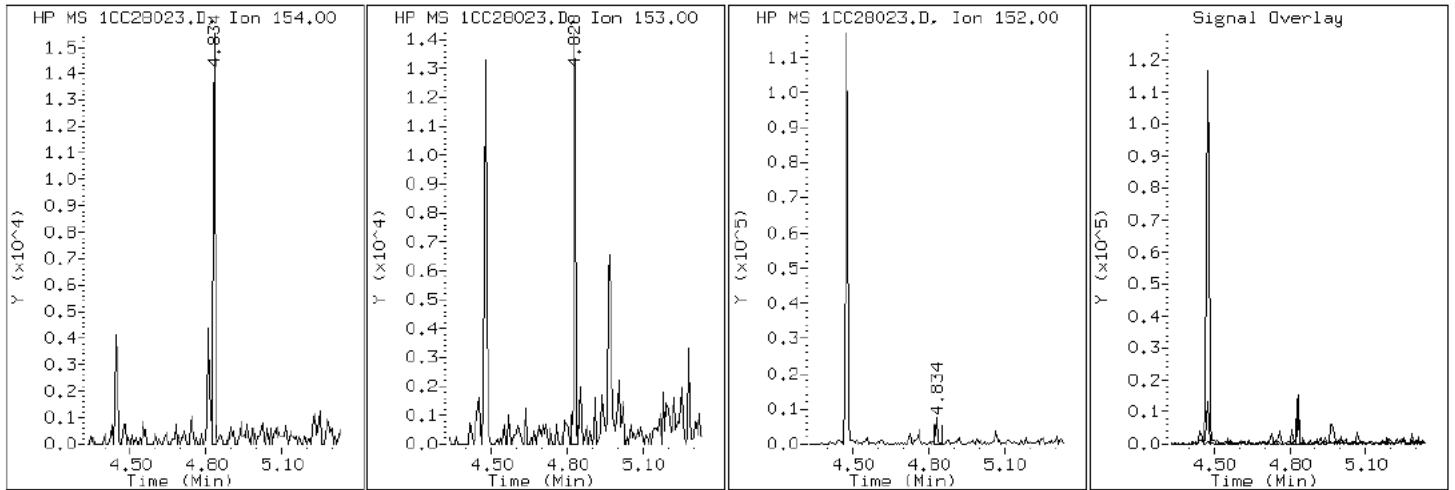
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

7 Acenaphthene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

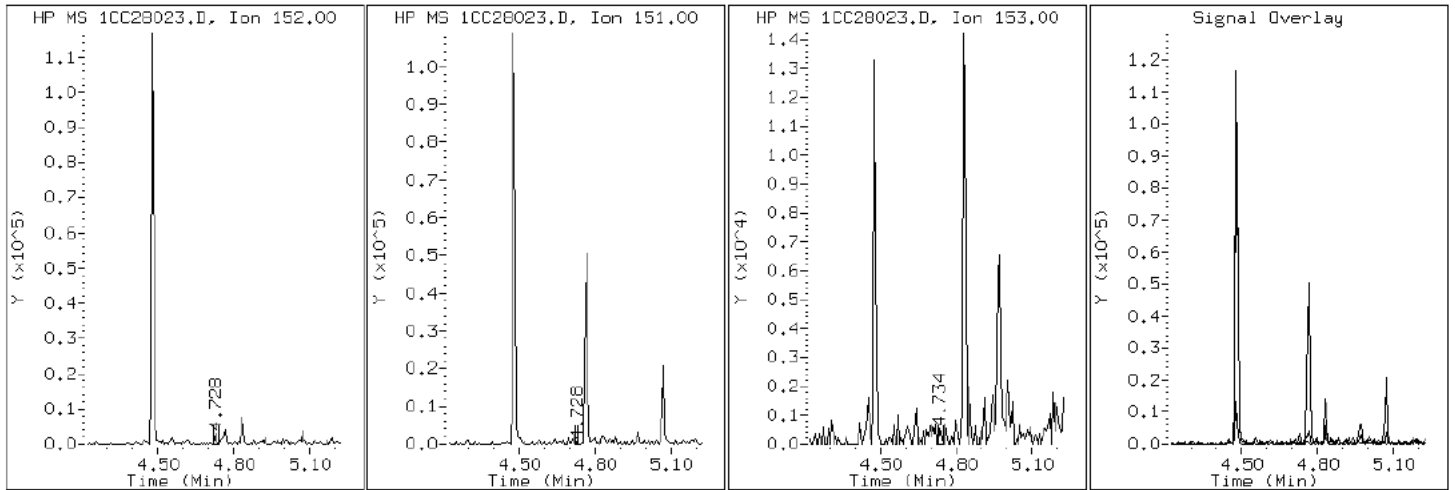
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

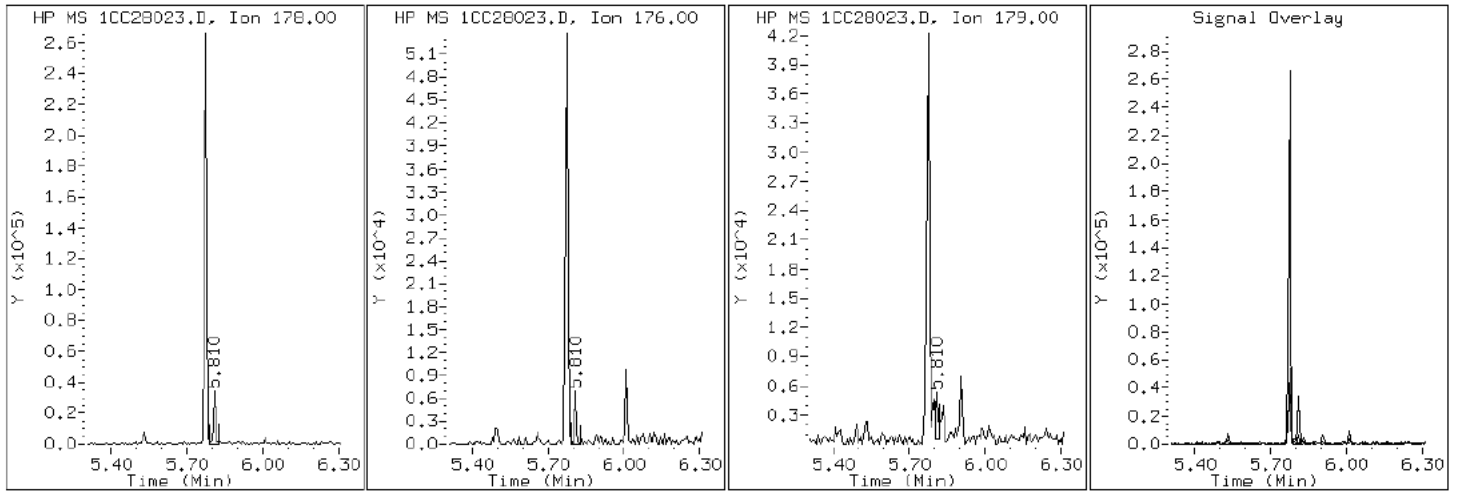
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

12 Anthracene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

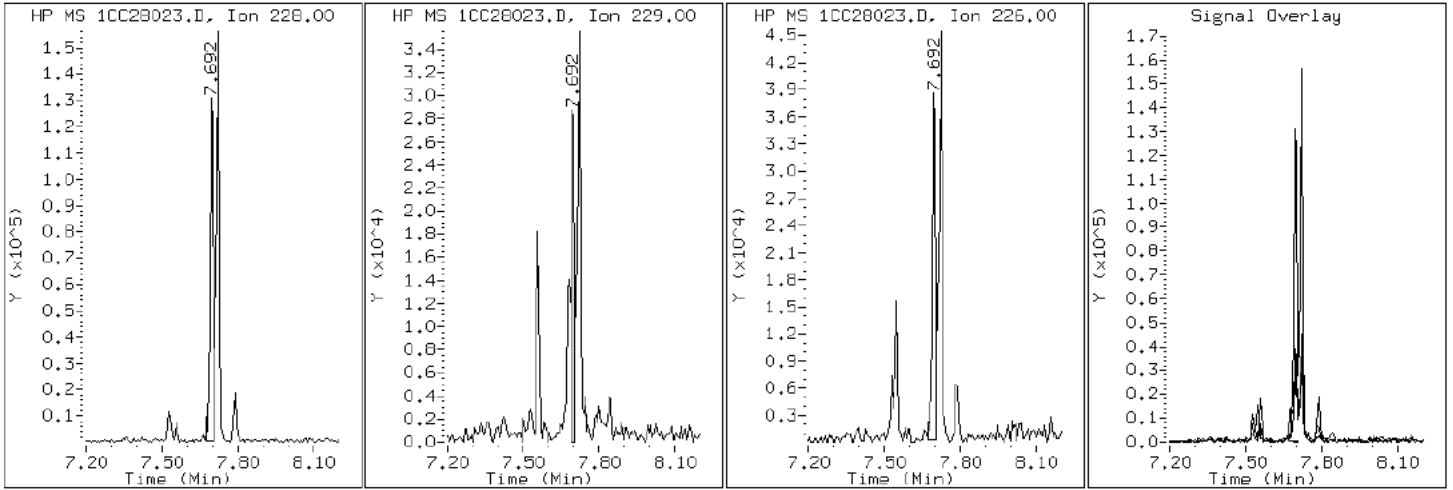
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

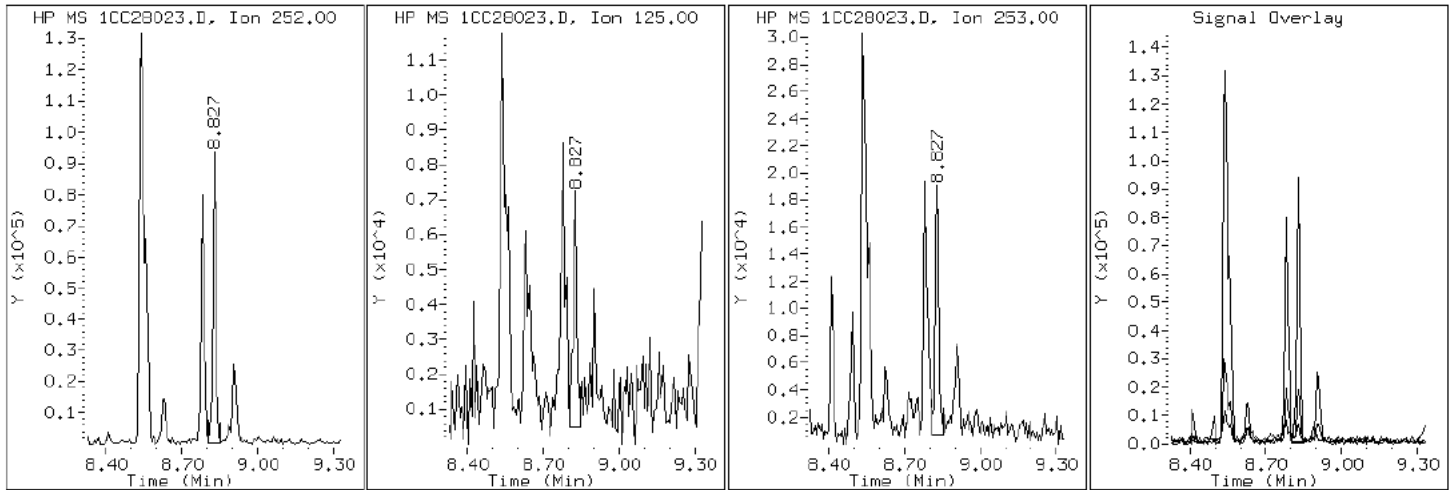
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

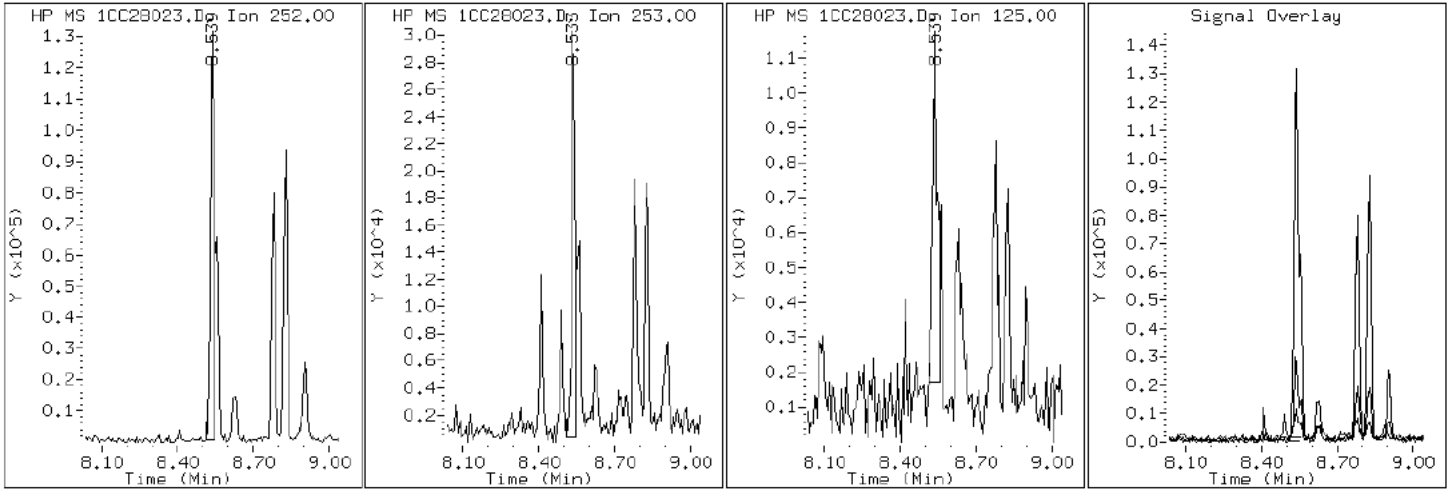
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

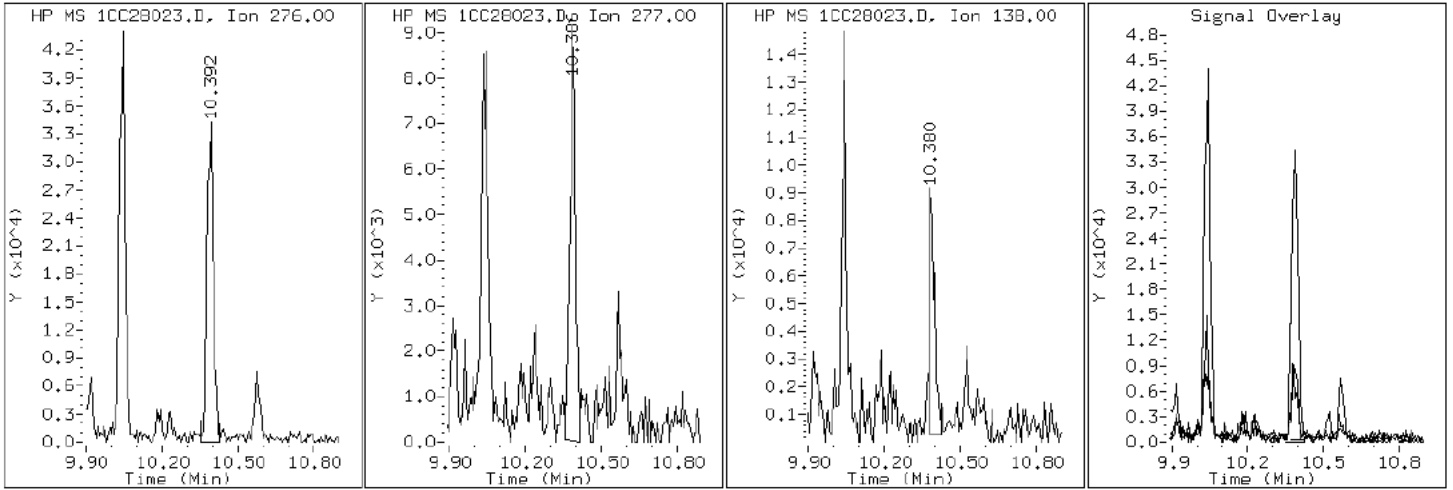
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

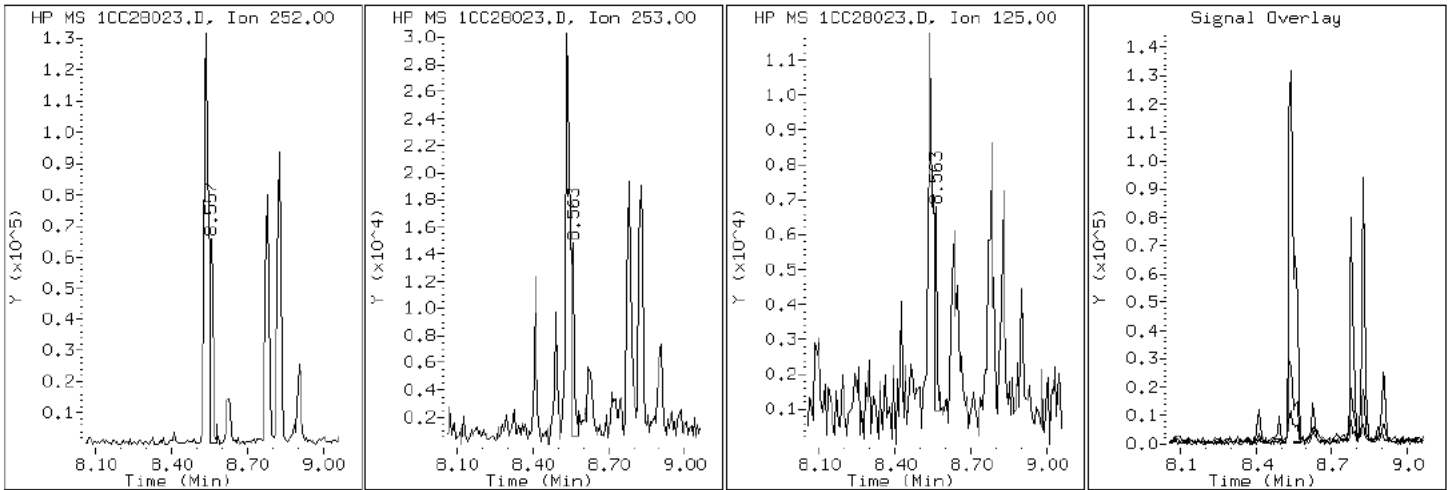
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

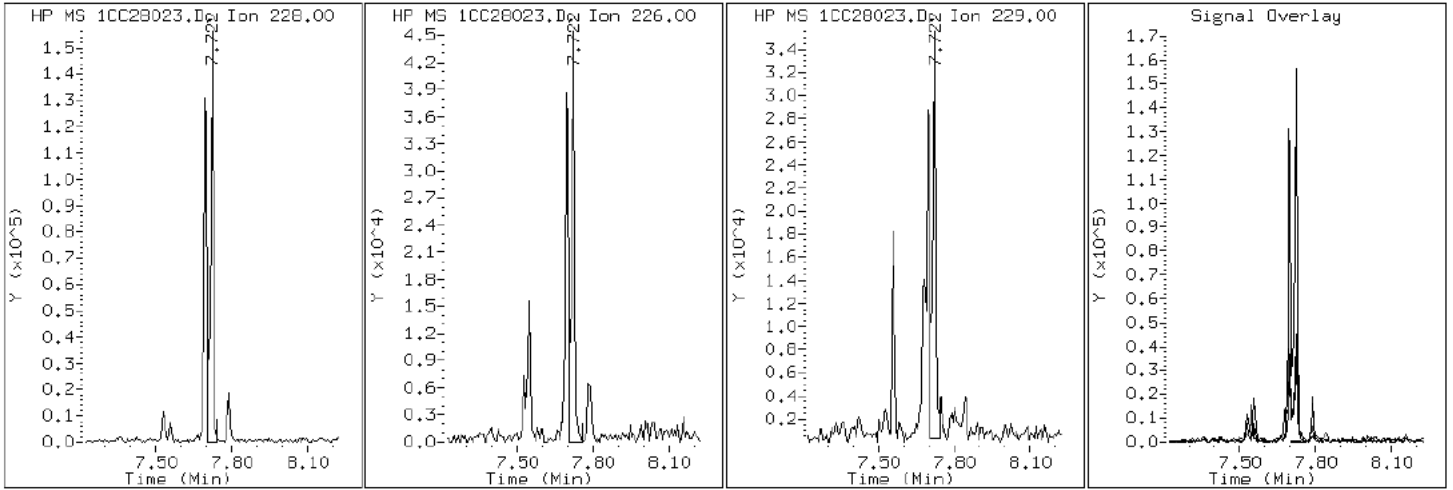
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

19 Chrysene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

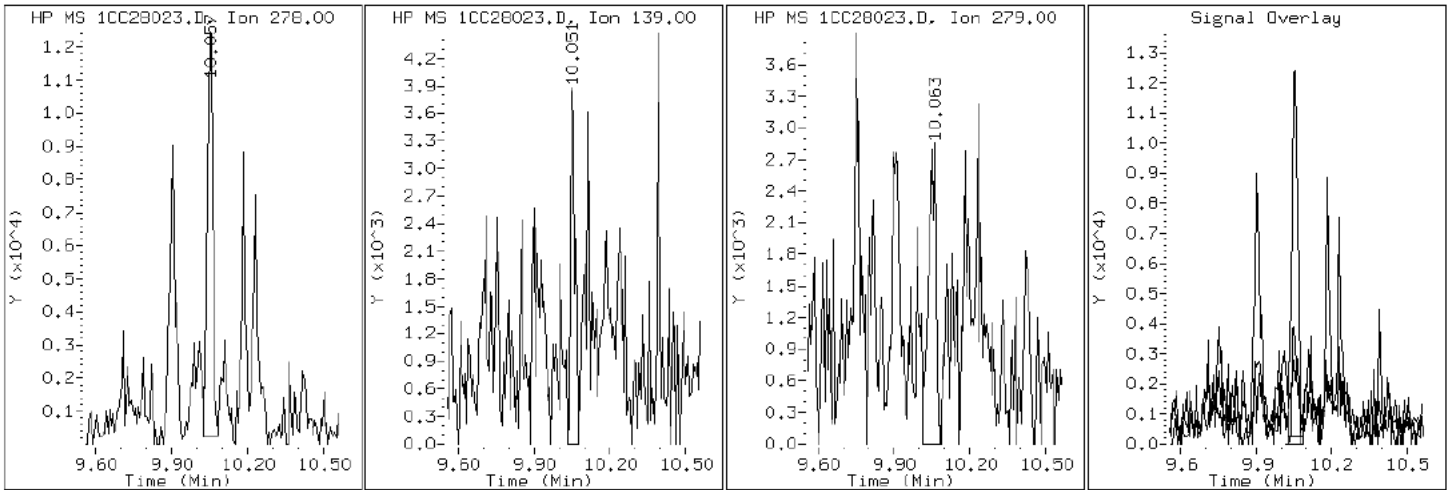
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

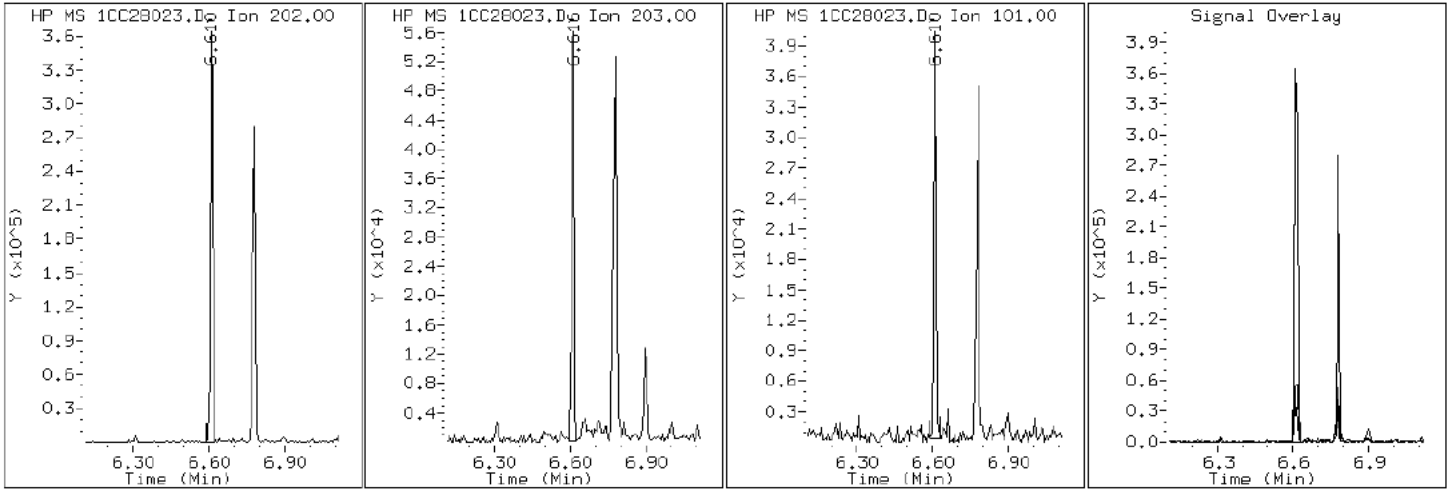
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

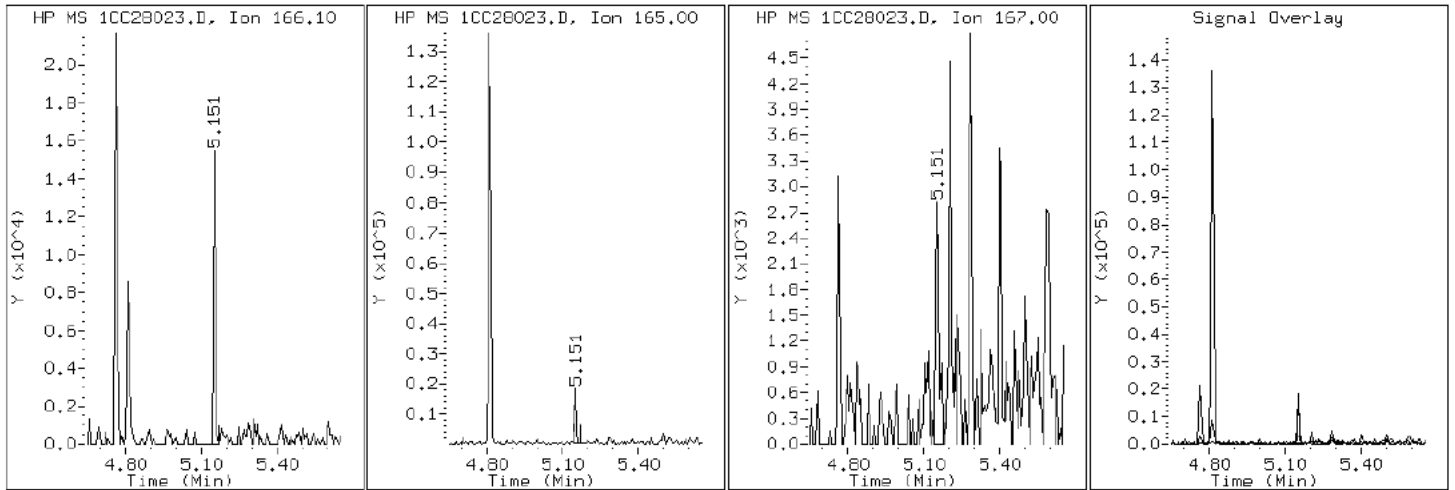
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

9 Fluorene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

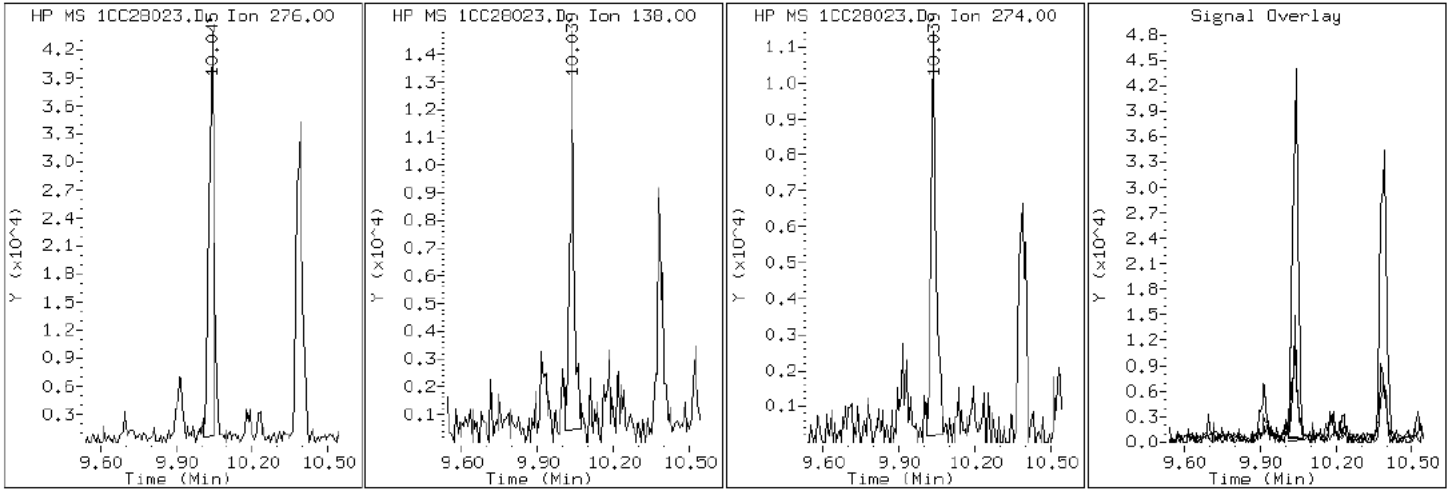
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

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



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

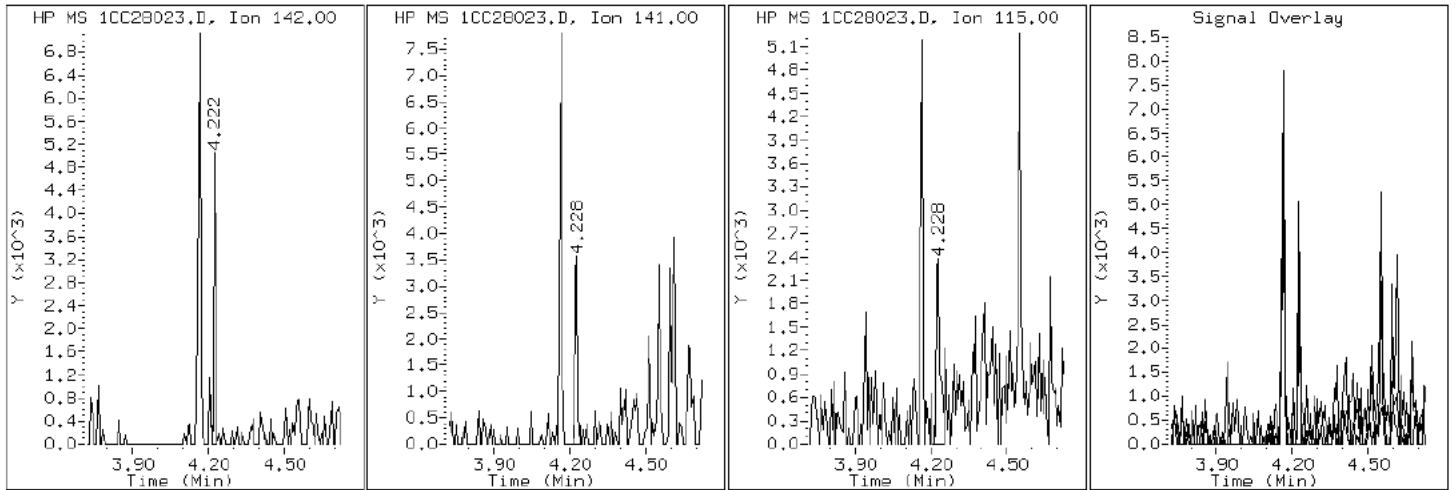
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

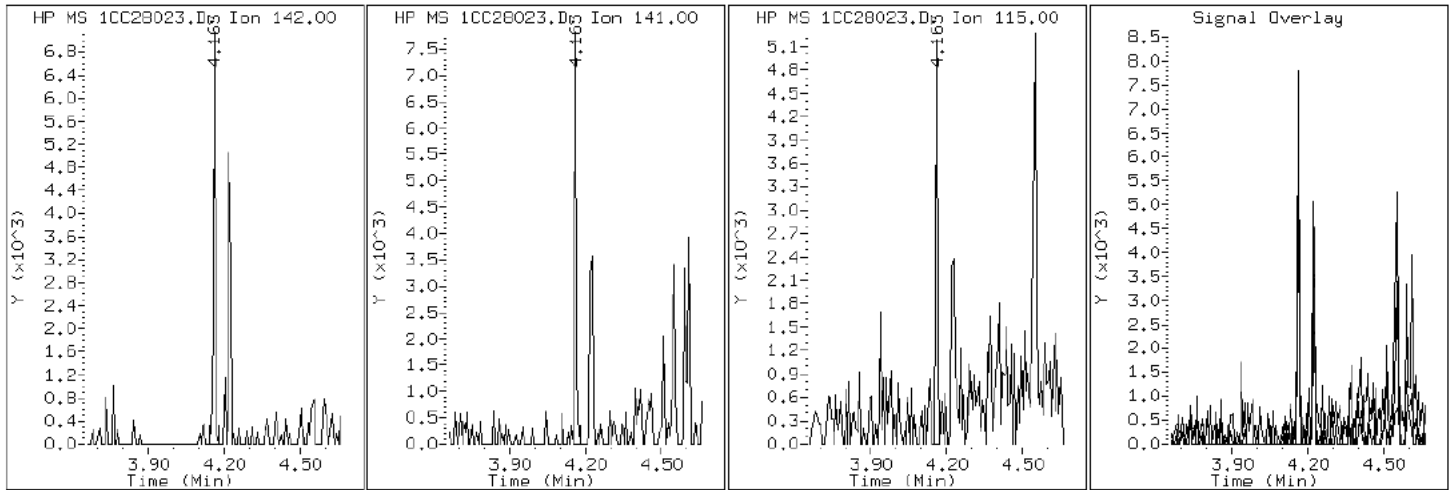
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

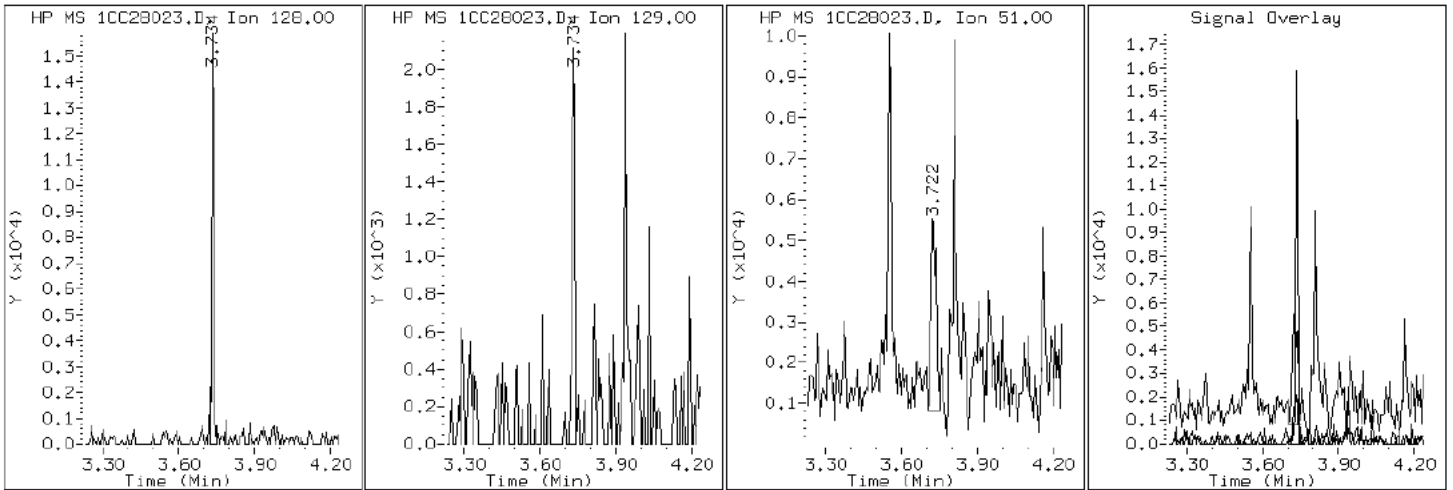
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

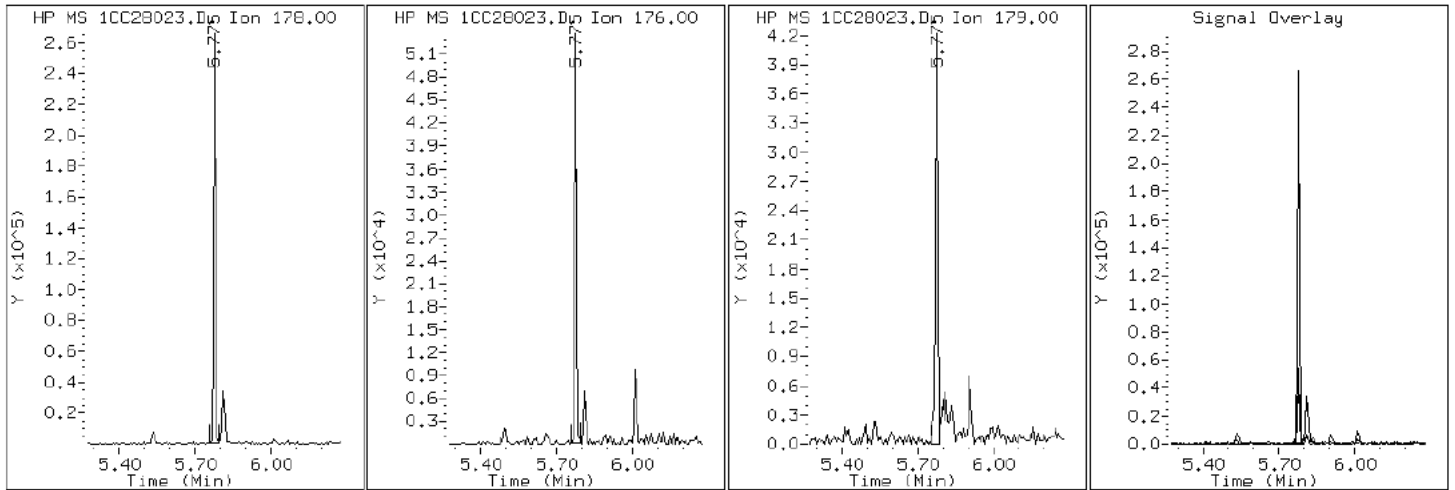
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28023.D

Date: 28-MAR-2013 18:08

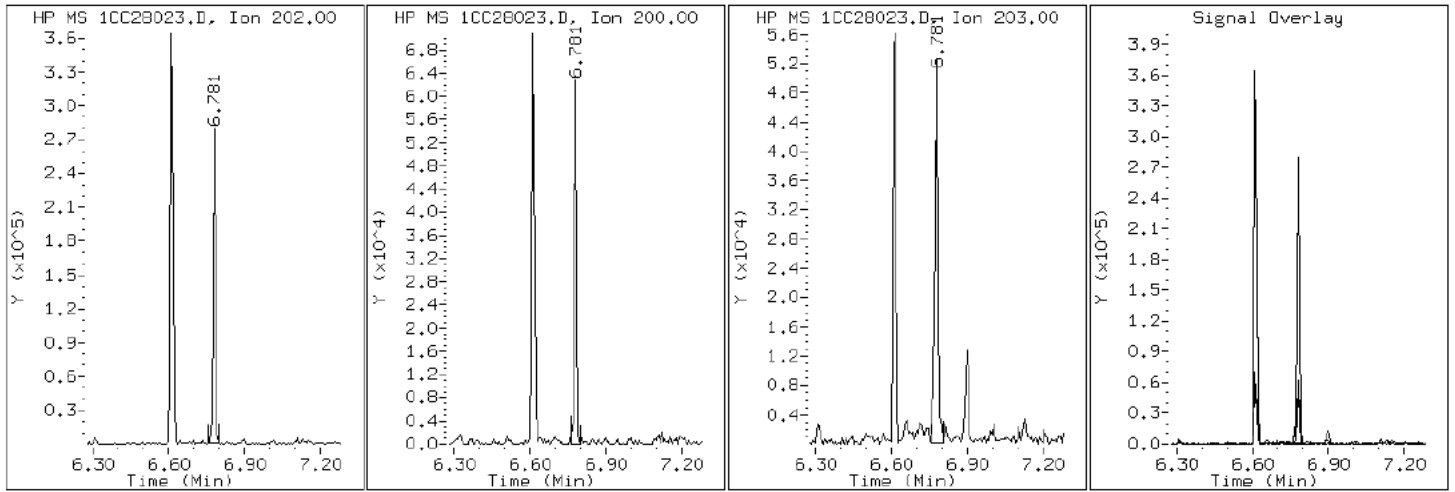
Client ID: CV1360W-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-4-a

Operator: SCC

16 Pyrene

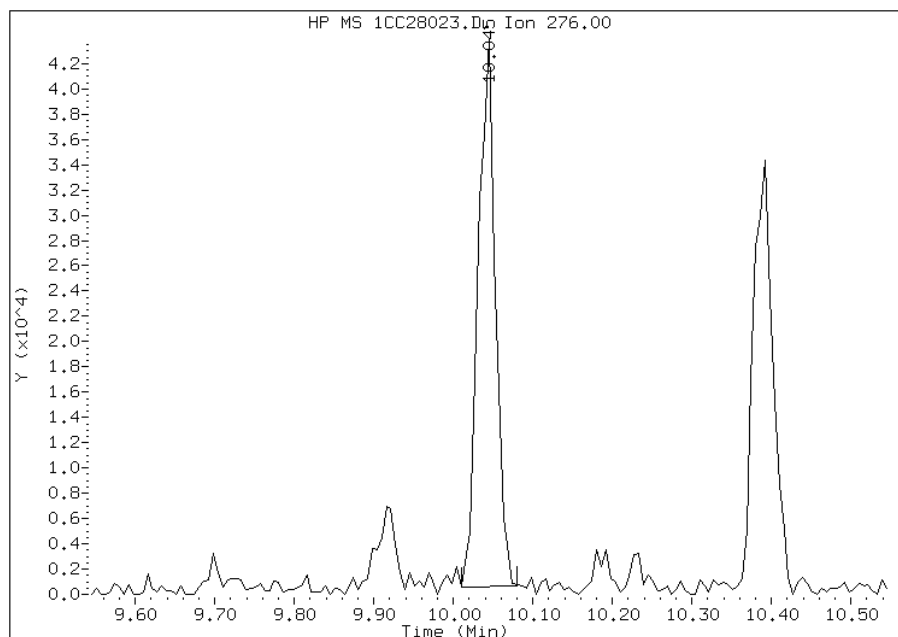


Manual Integration Report

Data File: 1CC28023.D
Inj. Date and Time: 28-MAR-2013 18:08
Instrument ID: BSMC5973.i
Client ID: CV1360W-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

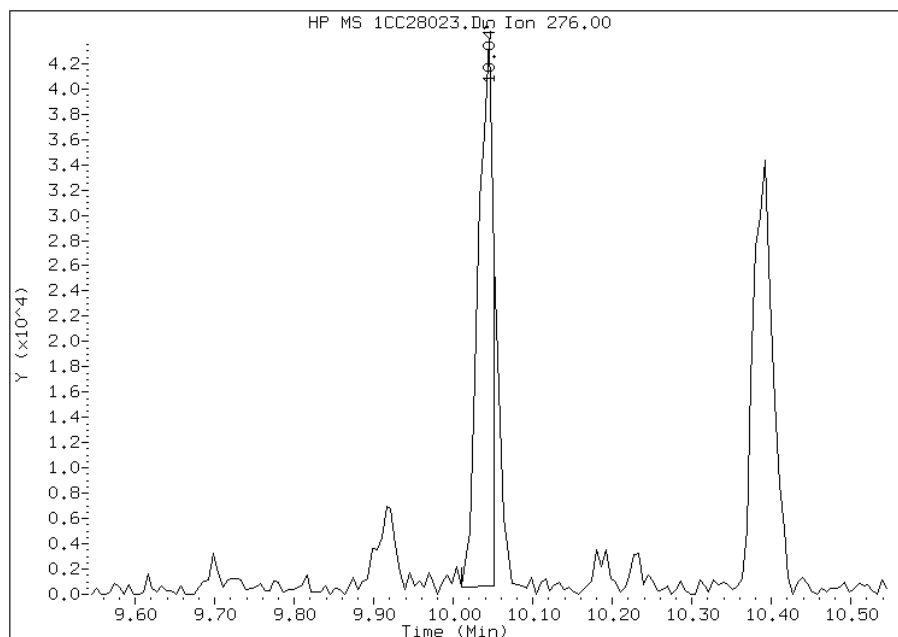
Processing Integration Results

RT: 10.05
Response: 64645
Amount: 2
Conc: 243



Manual Integration Results

RT: 10.05
Response: 56261
Amount: 2
Conc: 211



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1360X-CS Lab Sample ID: 680-88592-5
 Matrix: Solid Lab File ID: 1CC28024.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 09:00
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.23(g) Date Analyzed: 03/28/2013 18:26
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 33.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	59	U	59	7.4
120-12-7	Anthracene	11	J	12	6.2
56-55-3	Benzo[a]anthracene	59		12	5.8
50-32-8	Benzo[a]pyrene	59		15	7.7
205-99-2	Benzo[b]fluoranthene	110		18	9.0
191-24-2	Benzo[g,h,i]perylene	35		30	6.5
207-08-9	Benzo[k]fluoranthene	25		12	5.3
218-01-9	Chrysene	70		13	6.7
53-70-3	Dibenz(a,h)anthracene	12	J	30	6.1
206-44-0	Fluoranthene	100		30	5.9
86-73-7	Fluorene	7.4	J	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	38		30	10
90-12-0	1-Methylnaphthalene	11	J	59	6.5
91-57-6	2-Methylnaphthalene	13	J	59	10
91-20-3	Naphthalene	20	J	59	6.5
85-01-8	Phenanthrene	59		12	5.8
129-00-0	Pyrene	96		30	5.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	64		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28024.D
 Lab Smp Id: 680-88592-A-5-A Client Smp ID: CV1360X-CS
 Inj Date : 28-MAR-2013 18:26
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-5-a
 Misc Info : 680-88592-A-5-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.230	Weight Extracted
M	33.402	% 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		3.722	3.722	(1.000)	827979	40.0000		
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	643987	40.0000		
* 10 Phenanthrene-d10	188		5.757	5.763	(1.000)	1188920	40.0000		
\$ 14 o-Terphenyl	230		6.010	6.010	(1.044)	114528	6.38015	629.0246	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1305847	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1278167	40.0000		
2 Naphthalene	128		3.733	3.733	(1.003)	4446	0.20626	20.3352(Q)	
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	1940	0.13492	13.3023(Q)	
4 1-Methylnaphthalene	142		4.221	4.222	(1.134)	1496	0.11424	11.2629	
9 Fluorene	166		5.157	5.151	(1.072)	1537	0.07531	7.4248	
11 Phenanthrene	178		5.774	5.774	(1.003)	20631	0.60012	59.1660	
12 Anthracene	178		5.810	5.810	(1.009)	3810	0.11332	11.1722	
13 Carbazole	167		5.915	5.921	(1.028)	4758	0.15920	15.6954	
15 Fluoranthene	202		6.610	6.616	(1.148)	38616	1.02570	101.1246	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.780	6.780	(0.880)	34179	0.97396	96.0236
17 Benzo(a)anthracene	228	7.692	7.698	(0.998)	22730	0.60309	59.4590
19 Chrysene	228	7.721	7.721	(1.002)	26933	0.71407	70.4007
20 Benzo(b)fluoranthene	252	8.533	8.539	(0.960)	36224	1.08445	106.9163(M)
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.963)	8535	0.24908	24.5566(QMH)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	19420	0.59854	59.0107
24 Indeno(1,2,3-cd)pyrene	276	10.033	10.045	(1.129)	11912	0.39028	38.4775(MH)
25 Dibenzo(a,h)anthracene	278	10.062	10.062	(1.132)	3649	0.12222	12.0502(M)
26 Benzo(g,h,i)perylene	276	10.380	10.398	(1.168)	11414	0.35749	35.2447

QC Flag Legend

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

Data File: 1CC28024.D

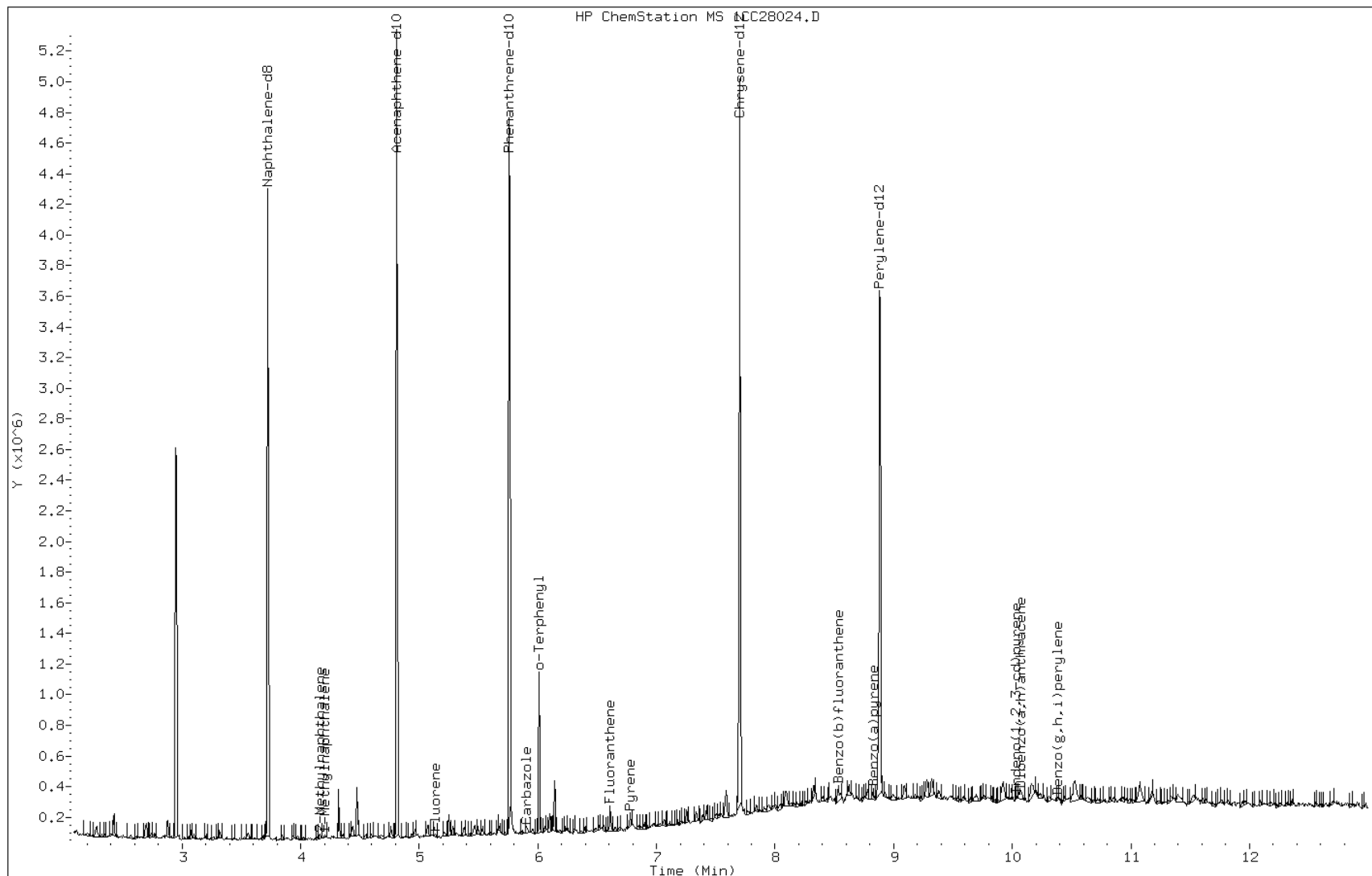
Date: 28-MAR-2013 18:26

Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

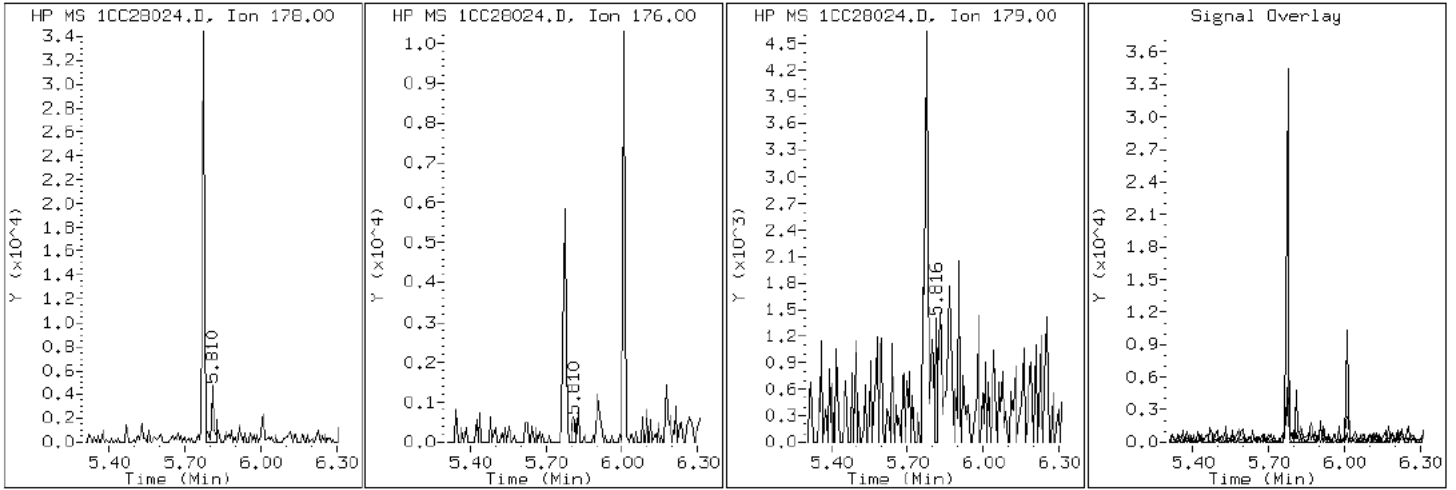
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

12 Anthracene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

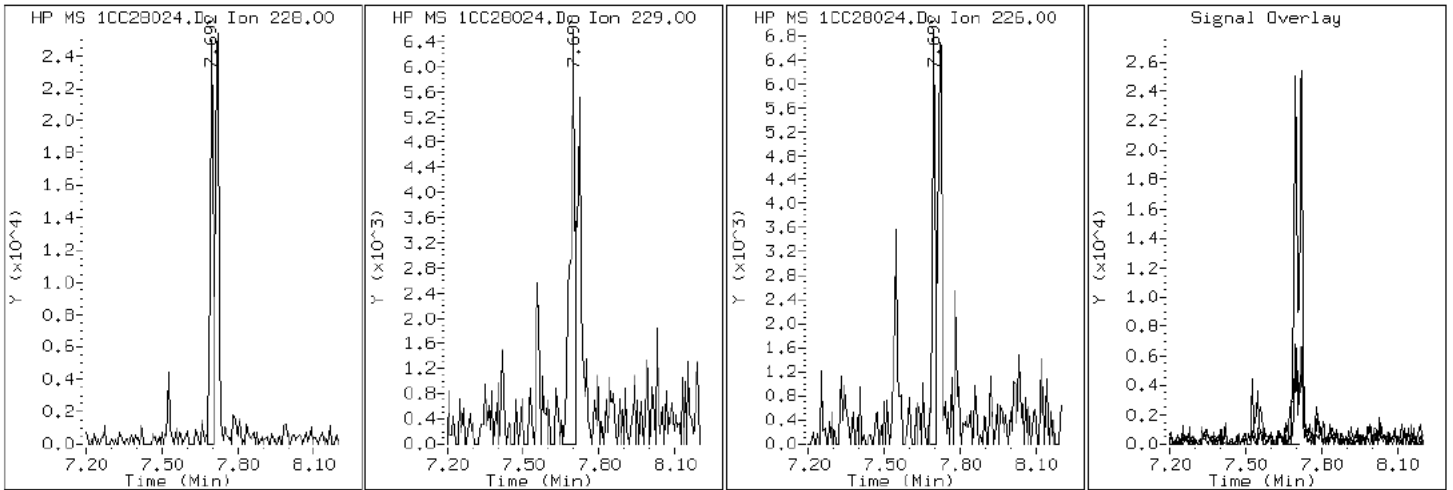
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

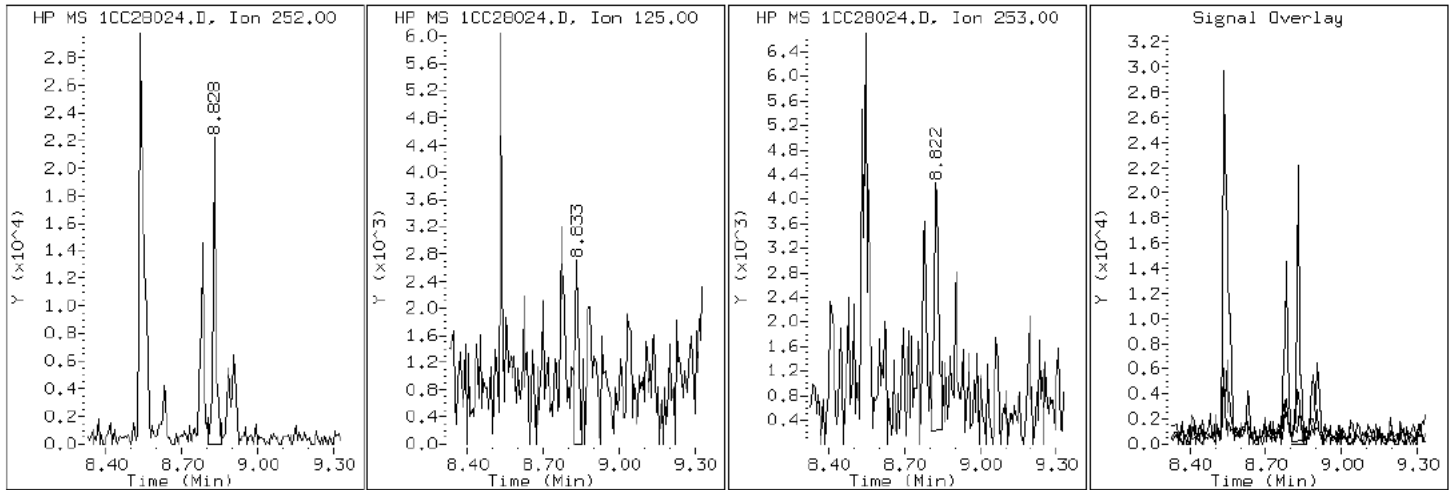
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

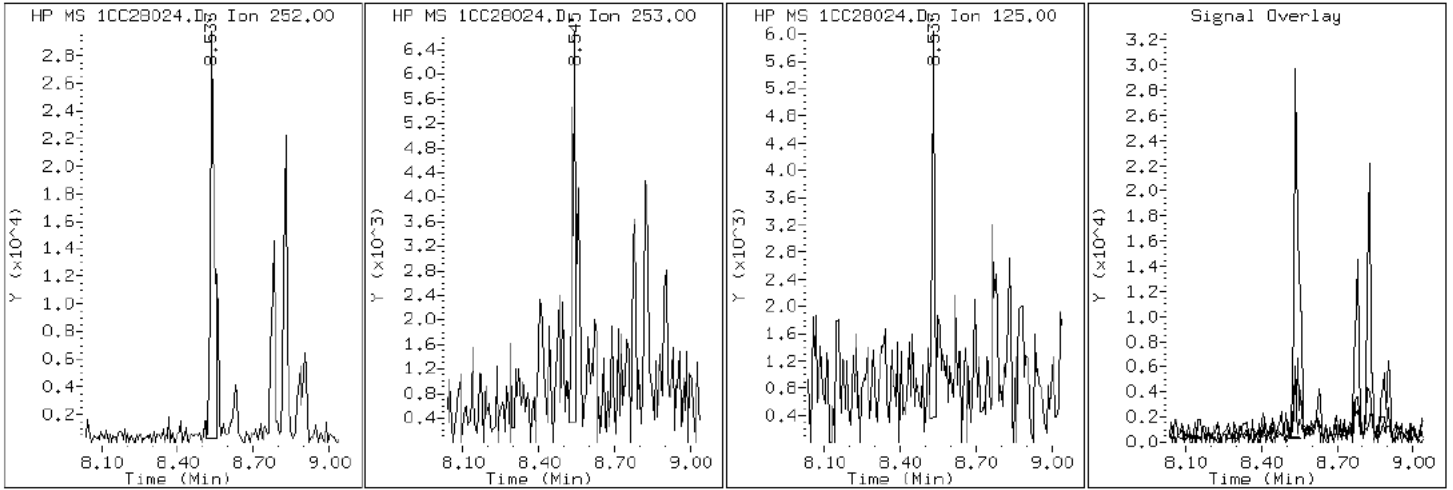
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

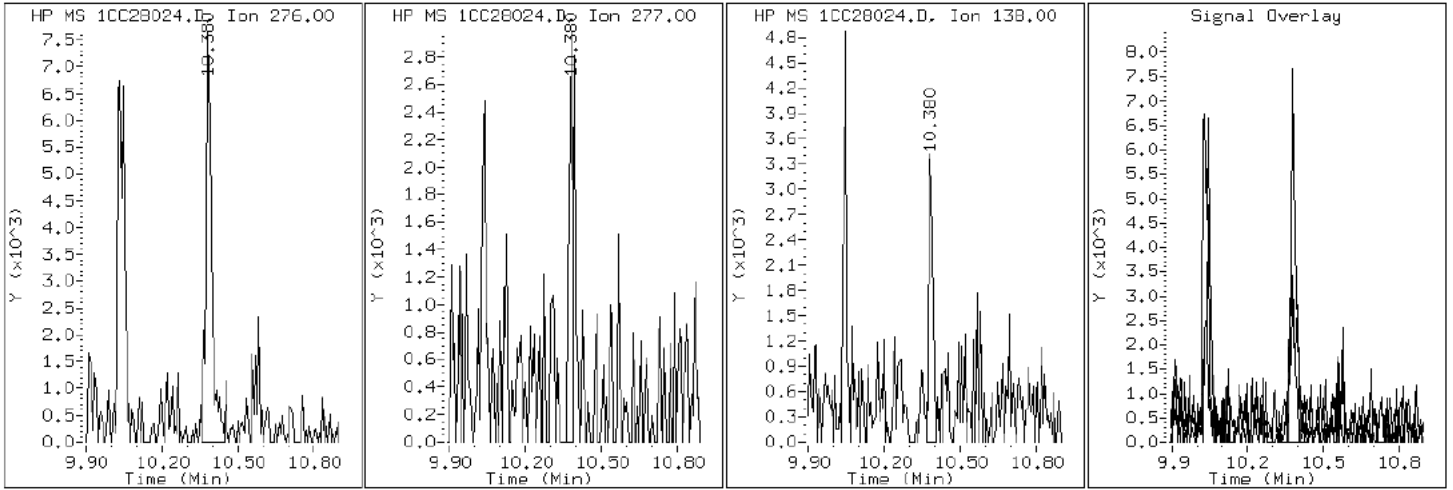
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

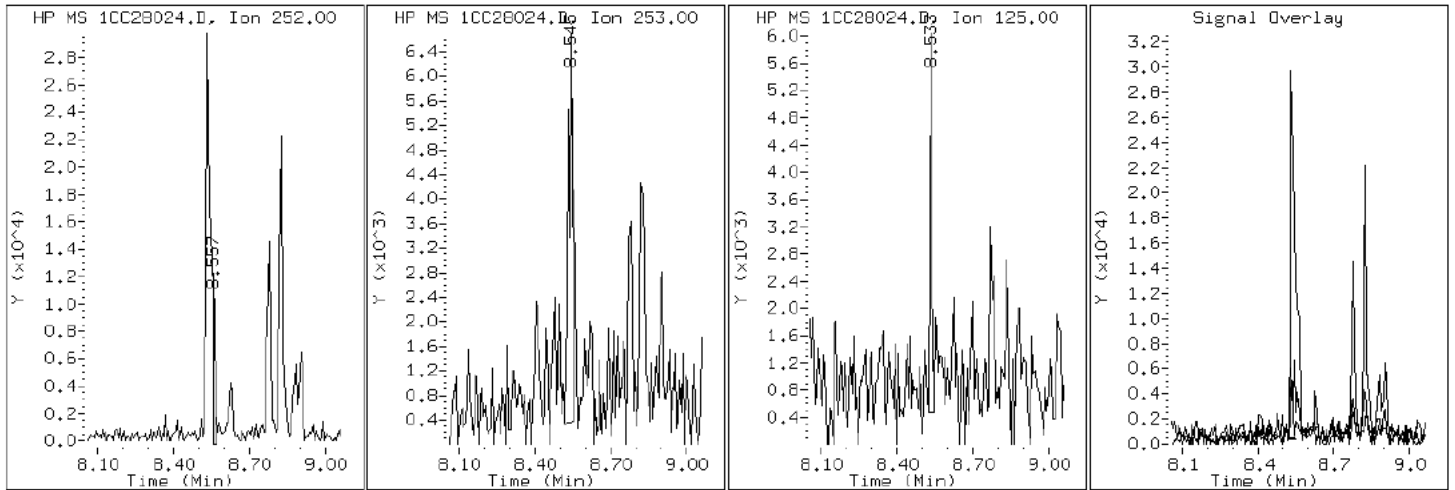
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

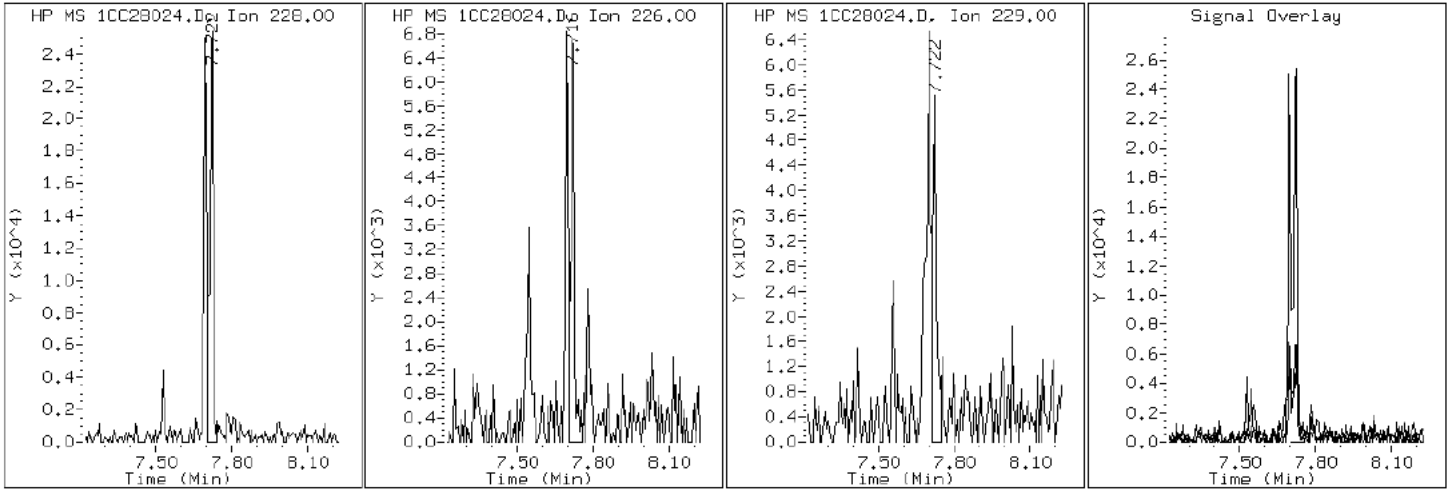
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

19 Chrysene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

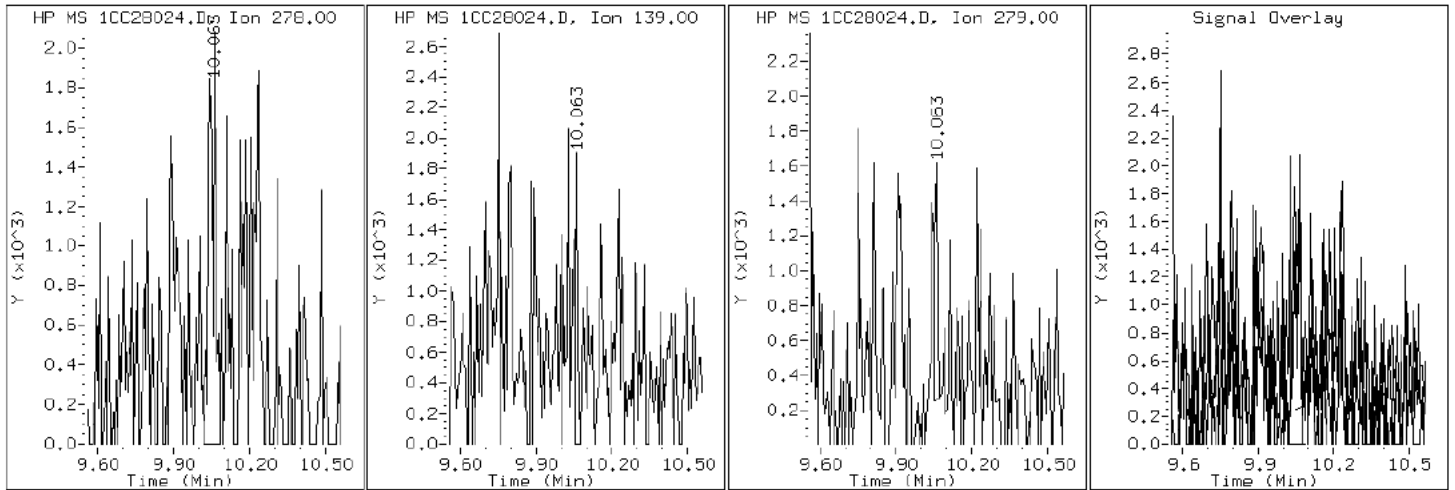
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

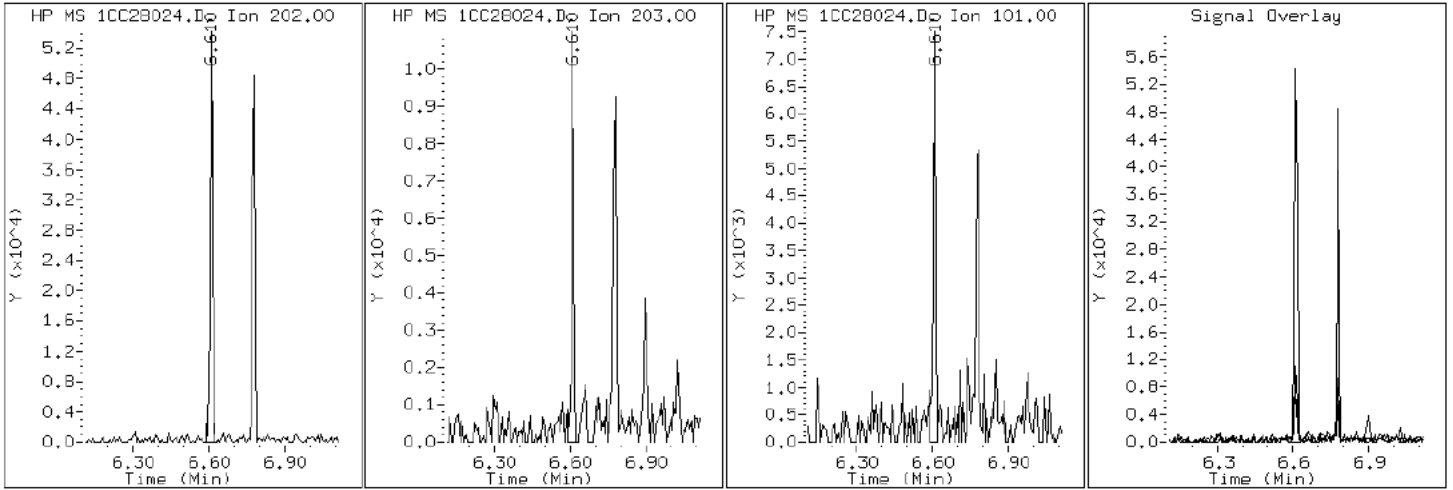
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

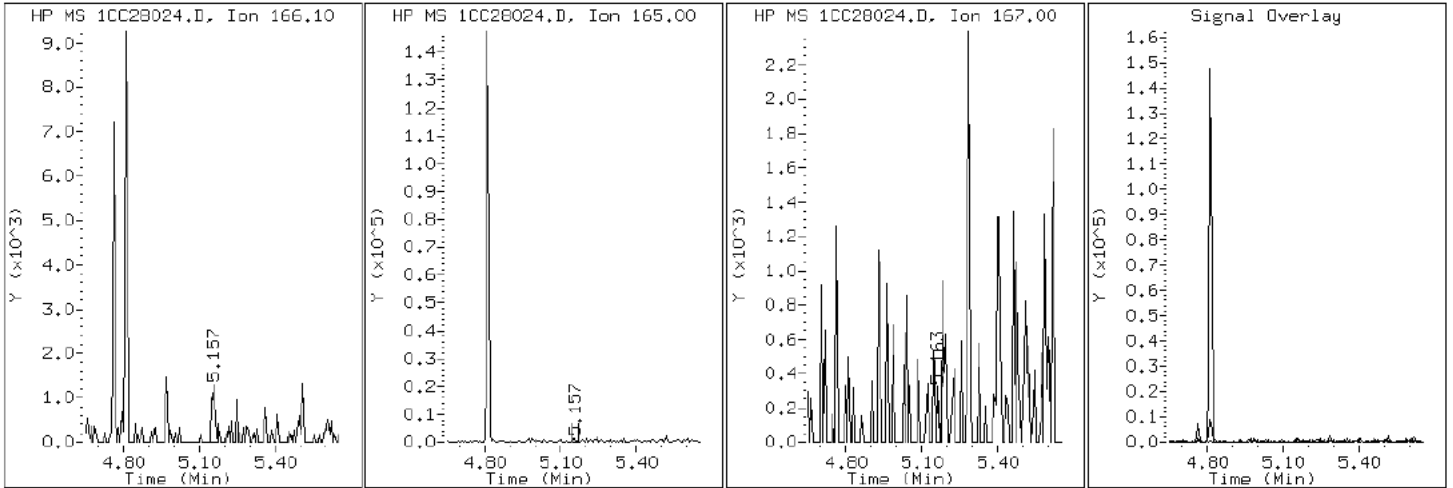
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

9 Fluorene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

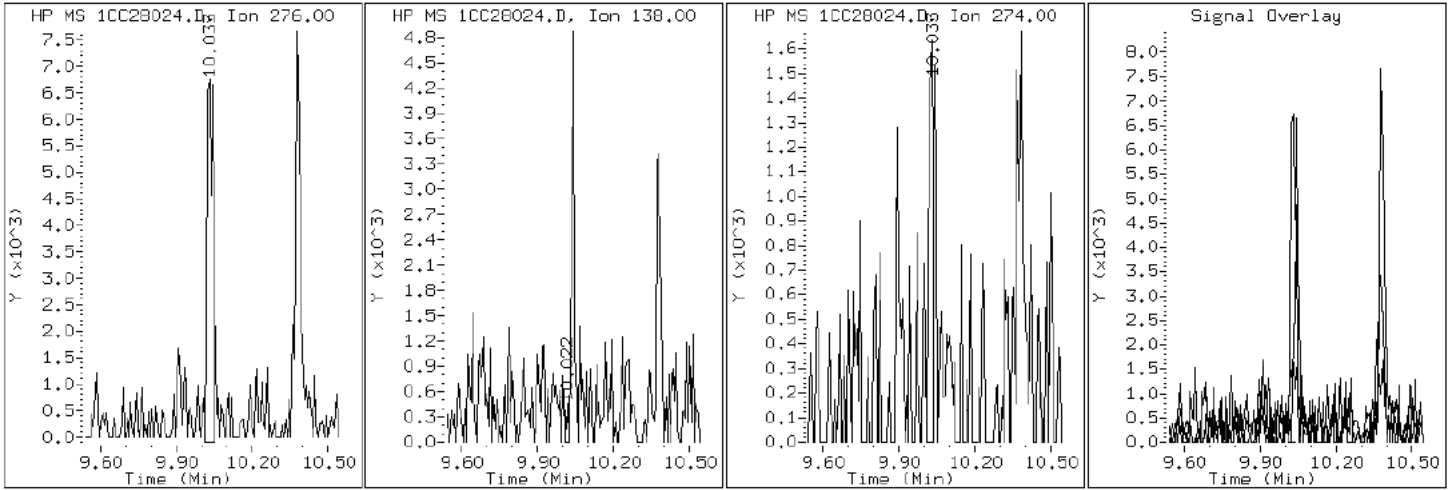
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

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



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

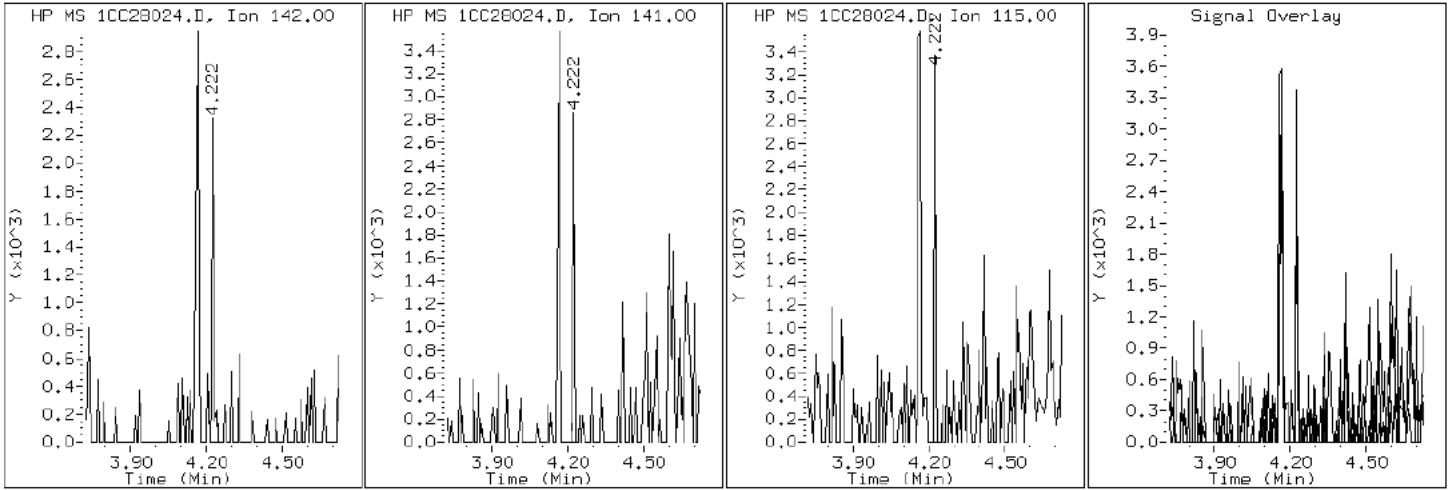
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

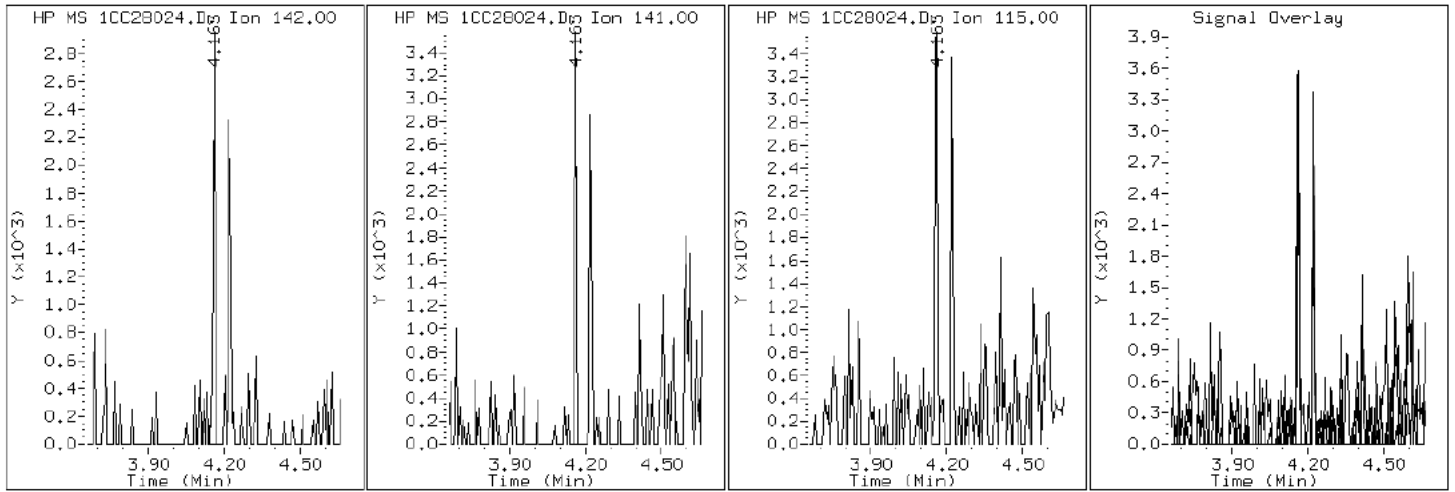
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

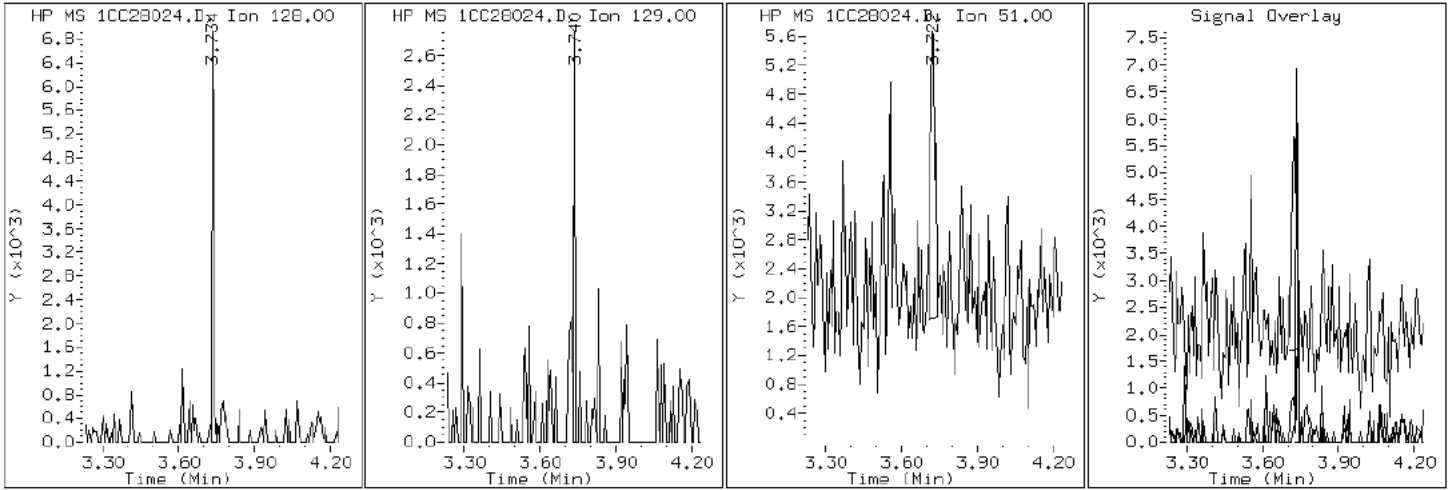
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

2 Naphthalene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

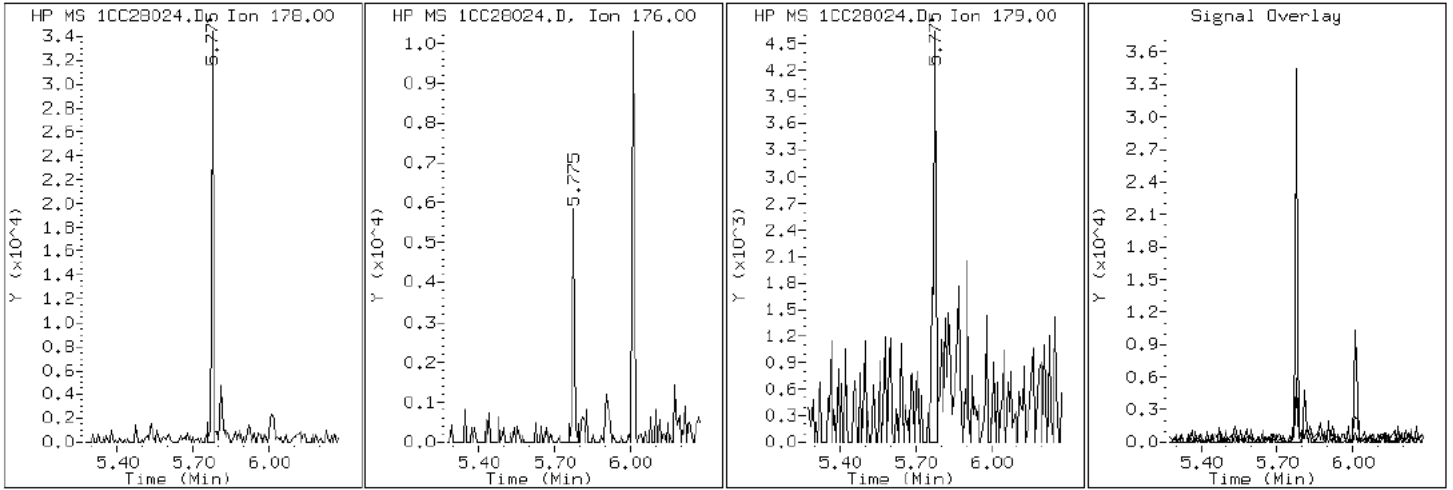
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28024.D

Date: 28-MAR-2013 18:26

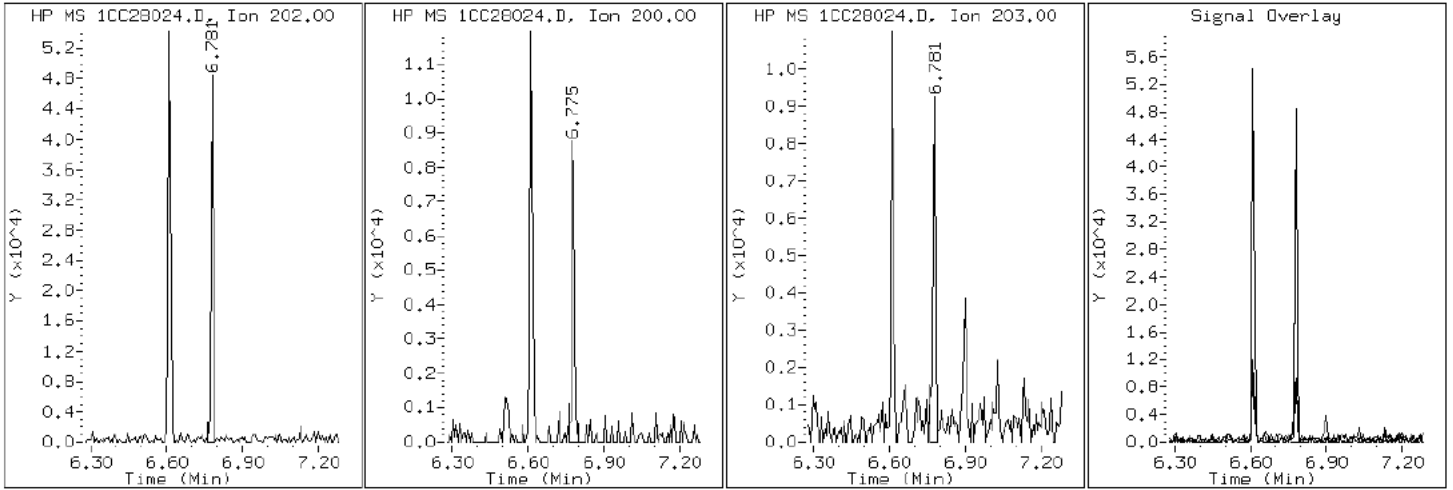
Client ID: CV1360X-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-5-a

Operator: SCC

16 Pyrene

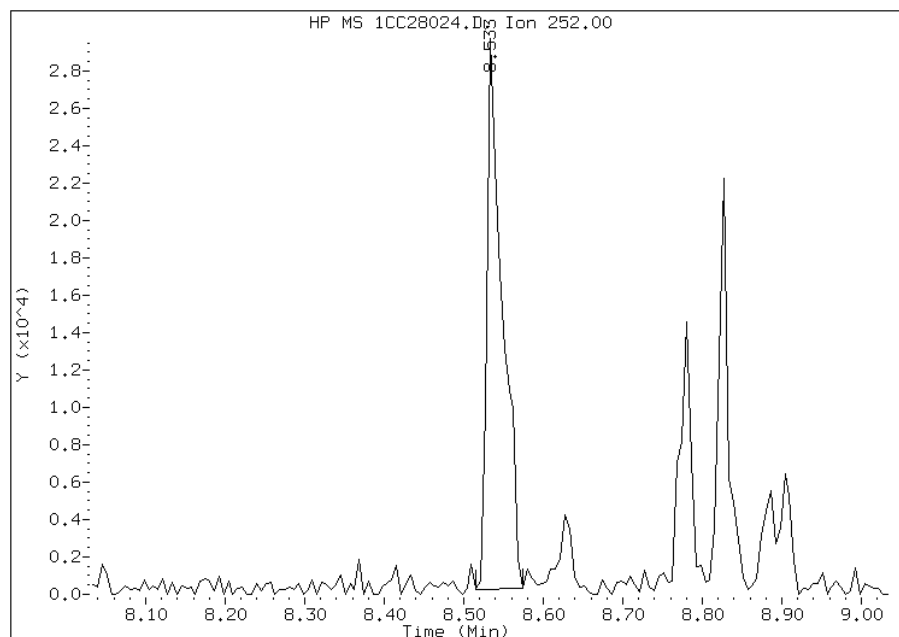


Manual Integration Report

Data File: 1CC28024.D
Inj. Date and Time: 28-MAR-2013 18:26
Instrument ID: BSMC5973.i
Client ID: CV1360X-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/01/2013

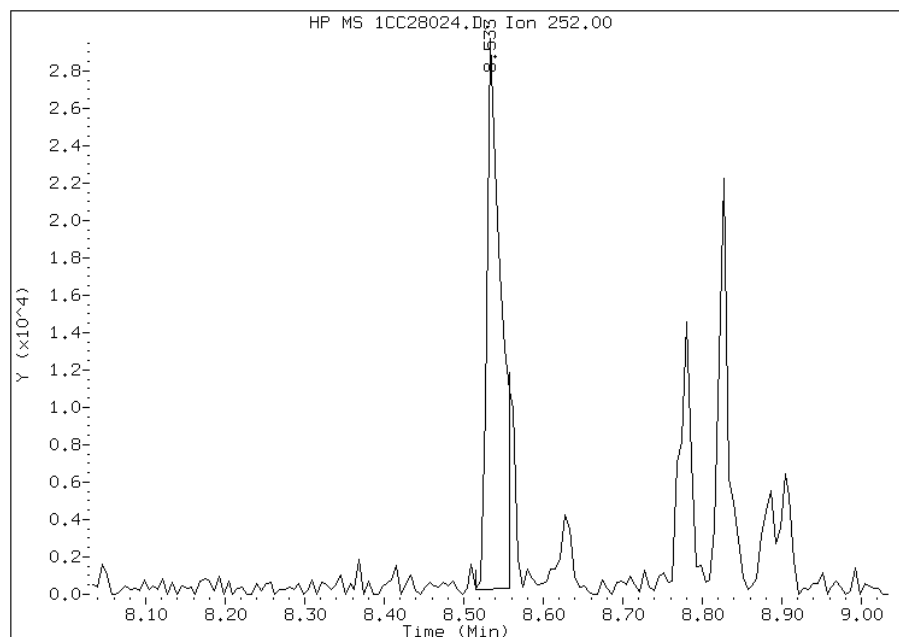
Processing Integration Results

RT: 8.53
Response: 40212
Amount: 1
Conc: 119



Manual Integration Results

RT: 8.53
Response: 36224
Amount: 1
Conc: 107



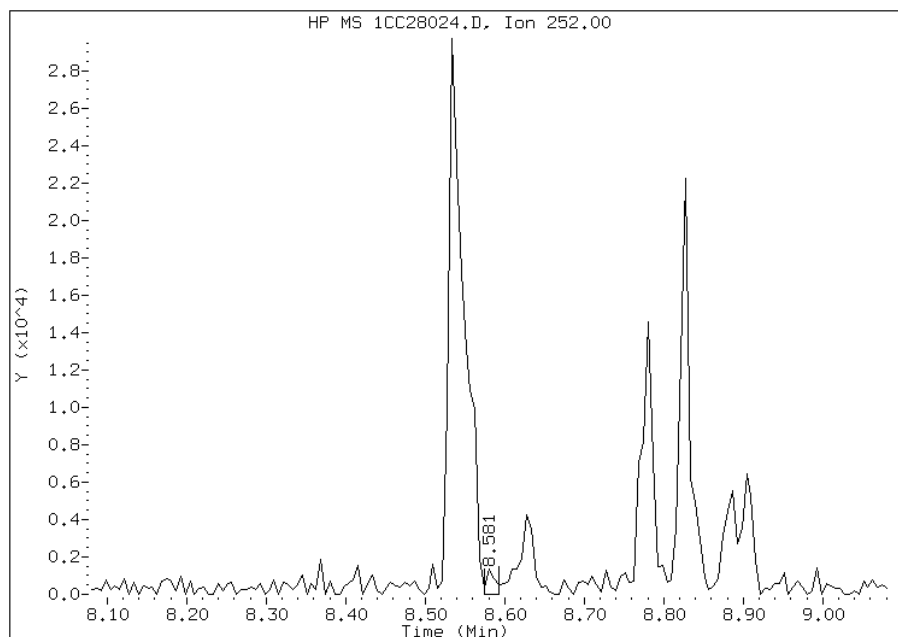
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC28024.D
Inj. Date and Time: 28-MAR-2013 18:26
Instrument ID: BSMC5973.i
Client ID: CV1360X-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/01/2013

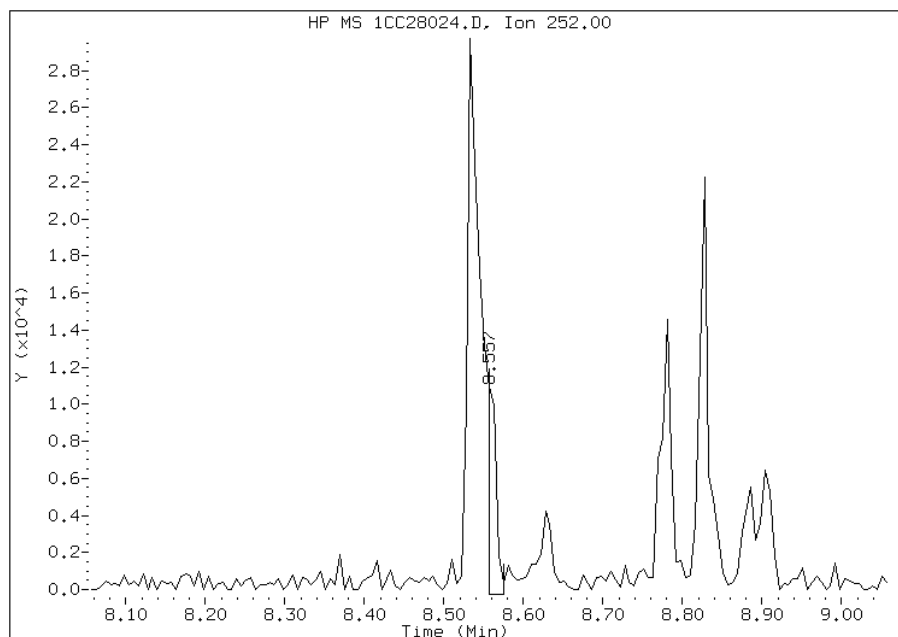
Processing Integration Results

RT: 8.58
Response: 1078
Amount: 0
Conc: 3



Manual Integration Results

RT: 8.56
Response: 8535
Amount: 0
Conc: 25



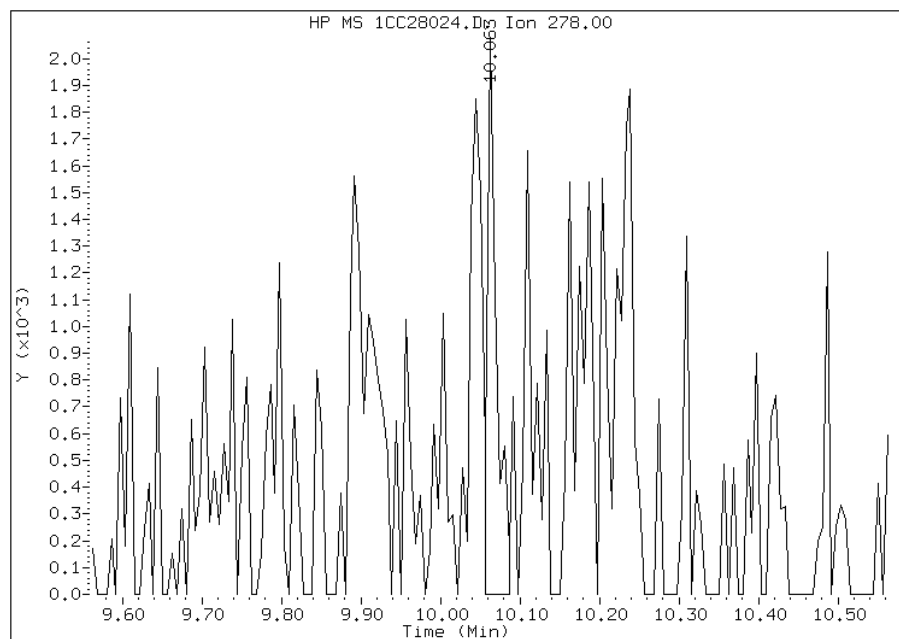
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28024.D
Inj. Date and Time: 28-MAR-2013 18:26
Instrument ID: BSMC5973.i
Client ID: CV1360X-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/01/2013

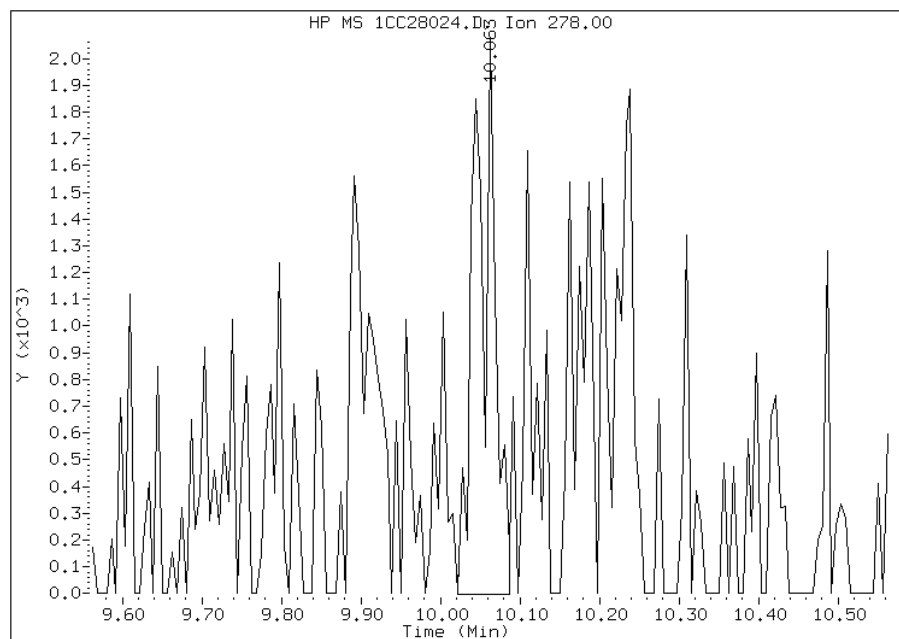
Processing Integration Results

RT: 10.06
Response: 1721
Amount: 0
Conc: 6



Manual Integration Results

RT: 10.06
Response: 3649
Amount: 0
Conc: 12



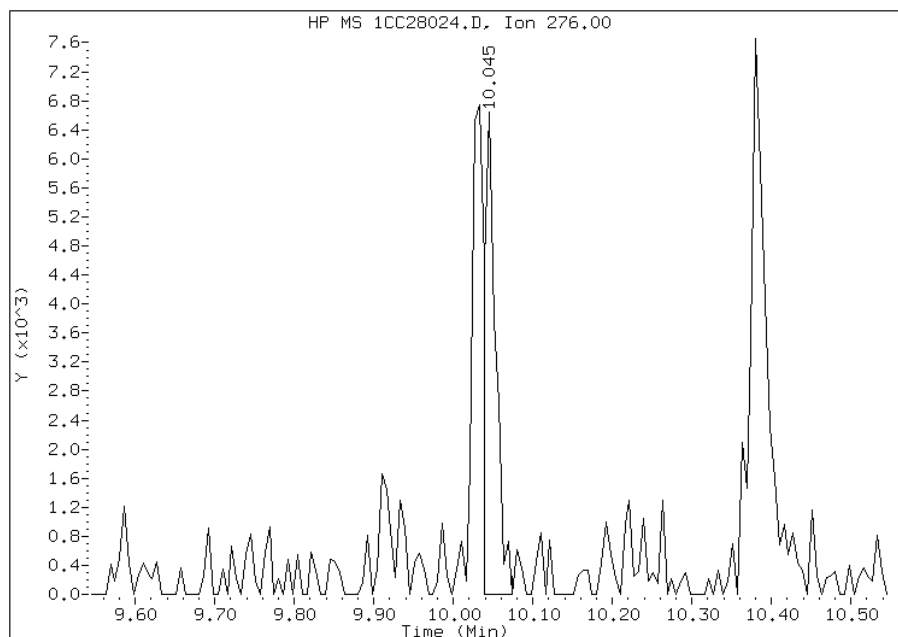
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:34
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28024.D
Inj. Date and Time: 28-MAR-2013 18:26
Instrument ID: BSMC5973.i
Client ID: CV1360X-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

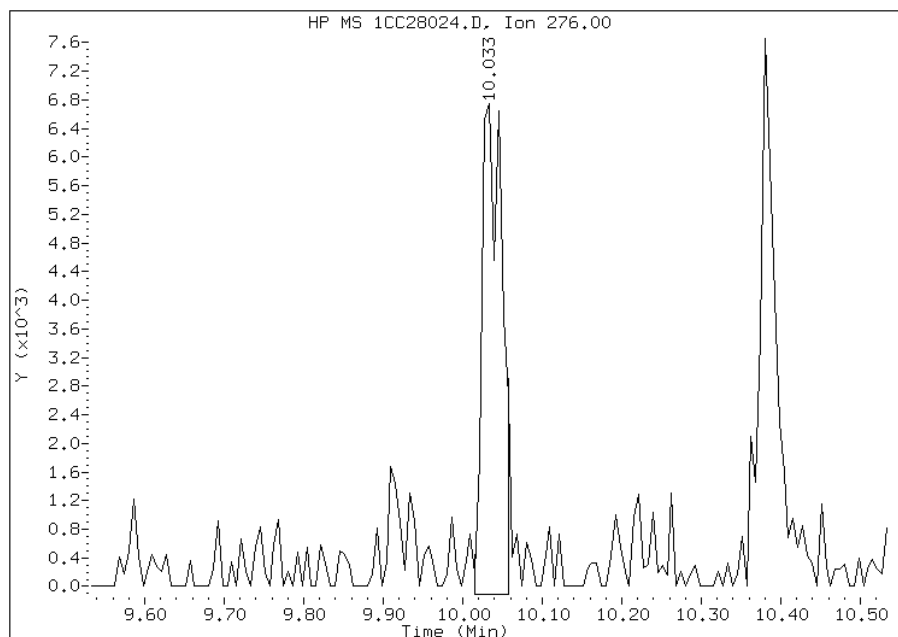
Processing Integration Results

RT: 10.05
Response: 6625
Amount: 0
Conc: 21



Manual Integration Results

RT: 10.03
Response: 11912
Amount: 0
Conc: 38



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:34
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1360Y-CS Lab Sample ID: 680-88592-6
 Matrix: Solid Lab File ID: 1CC28025.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 09:10
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.34(g) Date Analyzed: 03/28/2013 18:44
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 31.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	300		140	28
208-96-8	Acenaphthylene	22	J	57	7.1
120-12-7	Anthracene	420		12	6.0
56-55-3	Benzo[a]anthracene	2100		11	5.6
50-32-8	Benzo[a]pyrene	1800		15	7.4
205-99-2	Benzo[b]fluoranthene	3100		17	8.7
191-24-2	Benzo[g,h,i]perylene	1000		28	6.3
207-08-9	Benzo[k]fluoranthene	1200		11	5.1
218-01-9	Chrysene	2100		13	6.4
53-70-3	Dibenz(a,h)anthracene	350		28	5.8
86-73-7	Fluorene	250		28	5.8
193-39-5	Indeno[1,2,3-cd]pyrene	1100		28	10
90-12-0	1-Methylnaphthalene	58		57	6.3
91-57-6	2-Methylnaphthalene	92		57	10
91-20-3	Naphthalene	160		57	6.3
85-01-8	Phenanthrene	2900		11	5.6
129-00-0	Pyrene	3700		28	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28025.D
 Lab Smp Id: 680-88592-A-6-A Client Smp ID: CV1360Y-CS
 Inj Date : 28-MAR-2013 18:44
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-6-a
 Misc Info : 680-88592-A-6-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 25
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.340	Weight Extracted
M	31.349	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.721	3.722	(1.000)	820450	40.0000	
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	649941	40.0000	
* 10 Phenanthrene-d10	188		5.763	5.763	(1.000)	1192866	40.0000	
\$ 14 o-Terphenyl	230		6.010	6.010	(1.043)	116833	6.48703	615.9919
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1348916	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1245835	40.0000	
2 Naphthalene	128		3.733	3.733	(1.003)	36551	1.71124	162.4946
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	13818	0.96984	92.0938
4 1-Methylnaphthalene	142		4.221	4.222	(1.134)	7990	0.61574	58.4692
5 Acenaphthylene	152		4.727	4.722	(0.983)	6159	0.23504	22.3192
7 Acenaphthene	154		4.833	4.833	(1.005)	51243	3.14625	298.7602
9 Fluorene	166		5.151	5.151	(1.071)	54015	2.62236	249.0125
11 Phenanthrene	178		5.774	5.774	(1.002)	1052604	30.5170	2897.8140
12 Anthracene	178		5.810	5.810	(1.008)	149077	4.41927	419.6430

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.915	5.921 (1.027)		176265	5.87812	558.1717
15 Fluoranthene	202	6.615	6.616 (1.148)		1895663	50.1852	4765.4573(A)
16 Pyrene	202	6.780	6.780 (0.880)		1412219	38.9576	3699.3122
17 Benzo(a)anthracene	228	7.698	7.698 (0.999)		879410	22.5882	2144.9154
19 Chrysene	228	7.721	7.721 (1.002)		853280	21.9006	2079.6213
20 Benzo(b)fluoranthene	252	8.545	8.539 (0.962)		1046568	32.1444	3052.3535(M)
21 Benzo(k)fluoranthene	252	8.562	8.562 (0.964)		419830	12.5699	1193.6010(QM)
22 Benzo(a)pyrene	252	8.833	8.827 (0.994)		584826	18.4927	1756.0154
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.045 (1.130)		336445	11.3091	1073.8826(M)
25 Dibenzo(a,h)anthracene	278	10.062	10.062 (1.132)		108260	3.72032	353.2722
26 Benzo(g,h,i)perylene	276	10.398	10.398 (1.170)		339019	10.8936	1034.4278

QC Flag Legend

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

Data File: 1CC28025.D

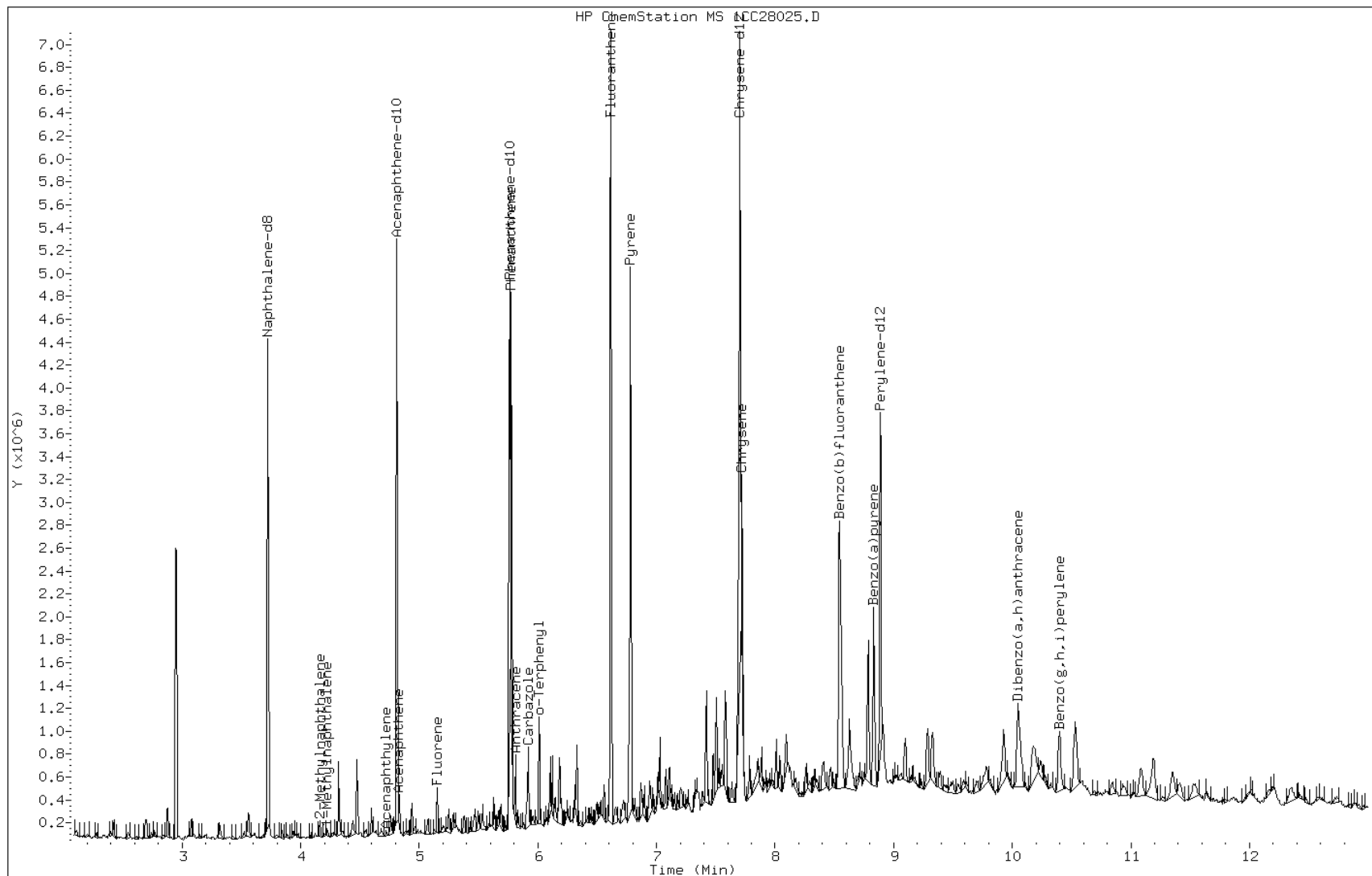
Date: 28-MAR-2013 18:44

Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

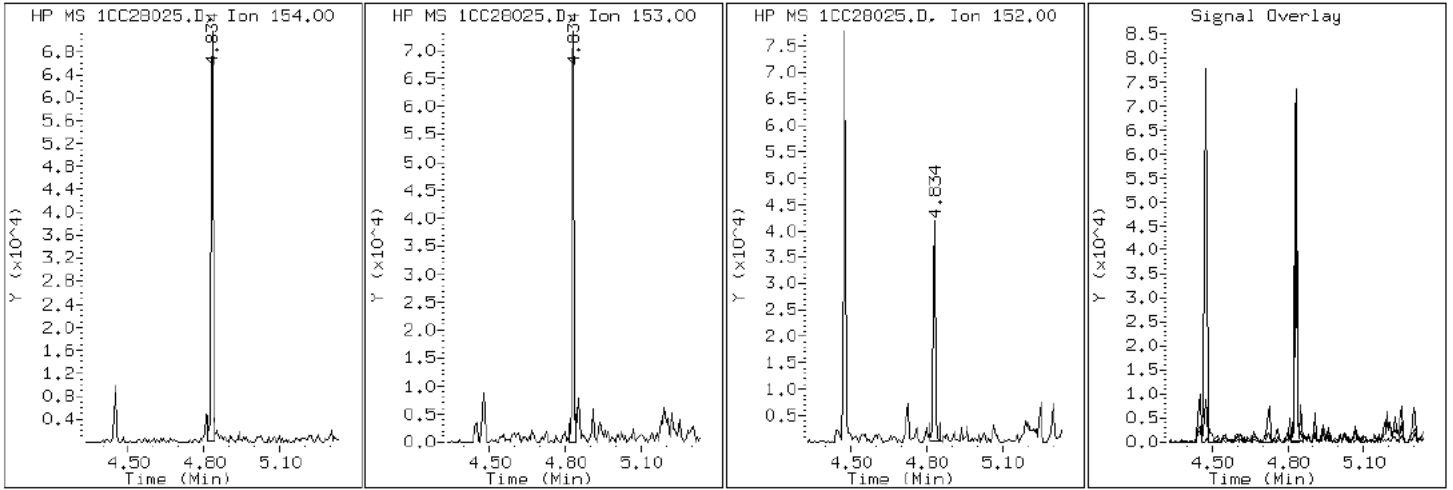
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

7 Acenaphthene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

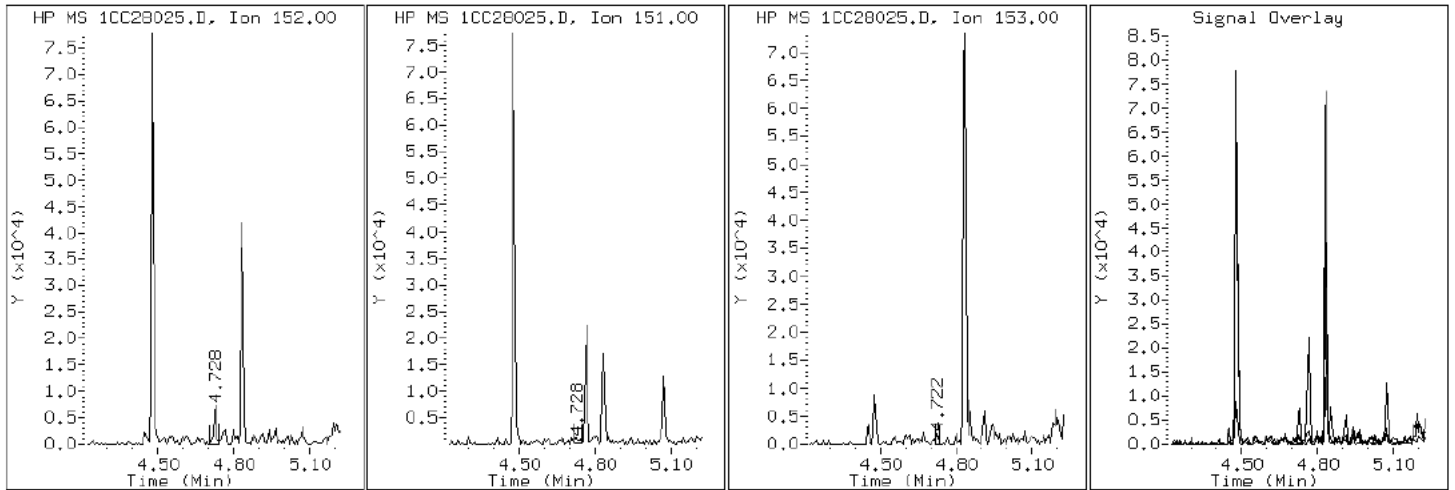
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

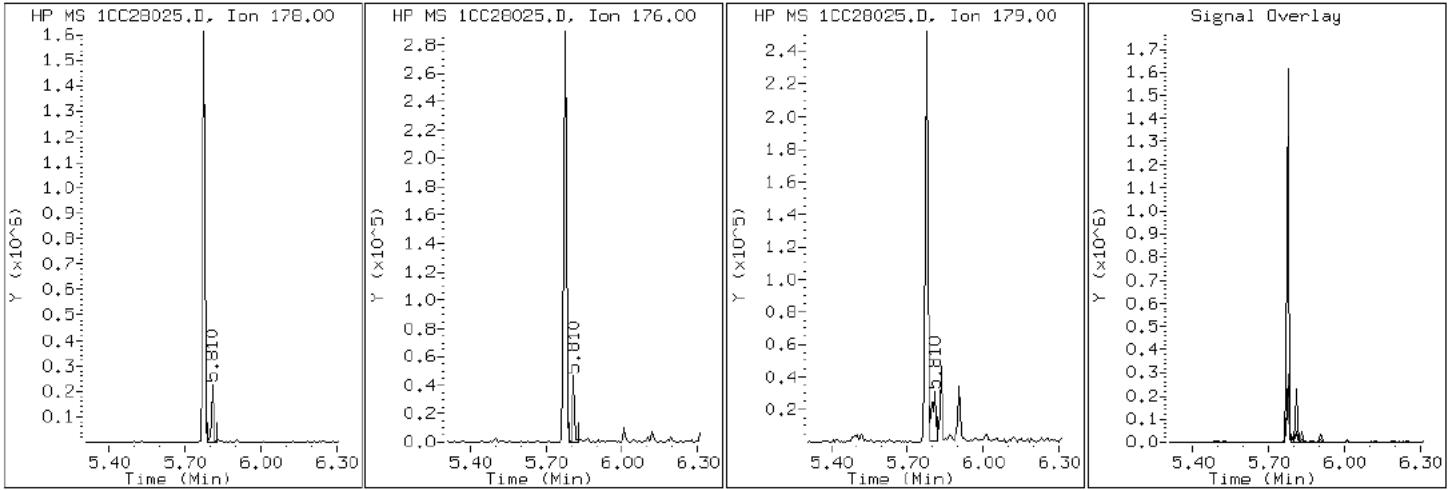
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

12 Anthracene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

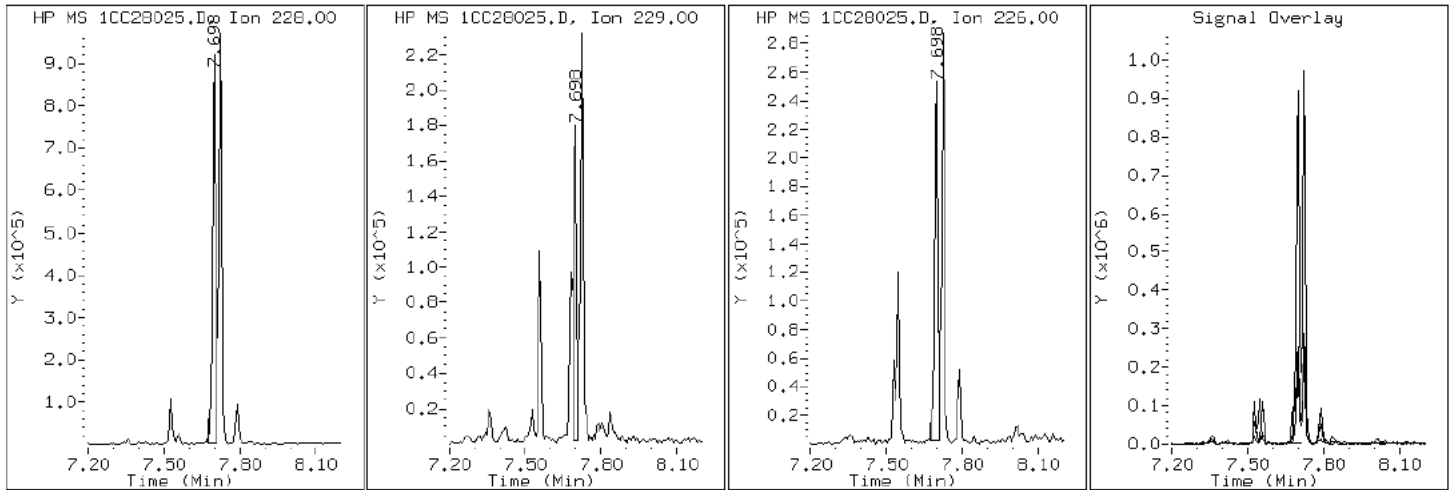
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

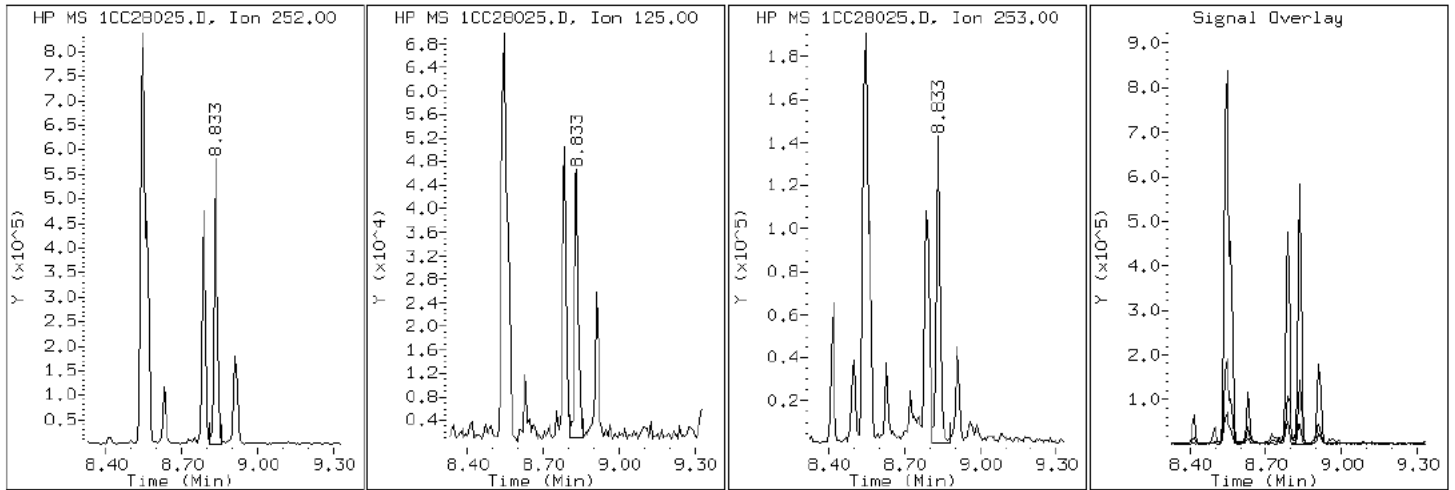
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

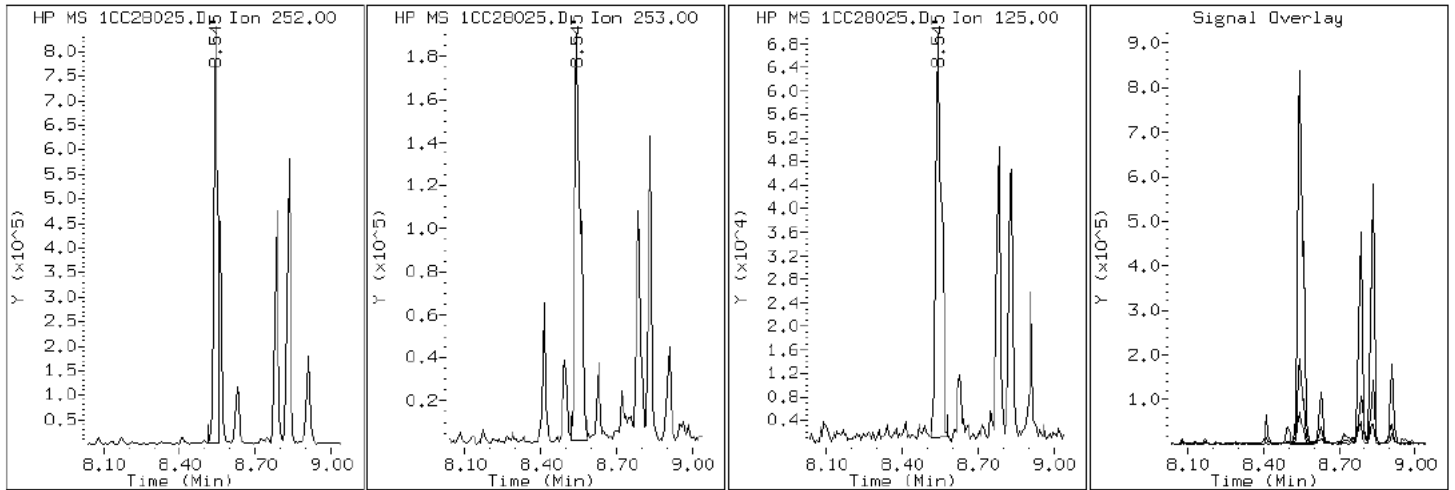
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

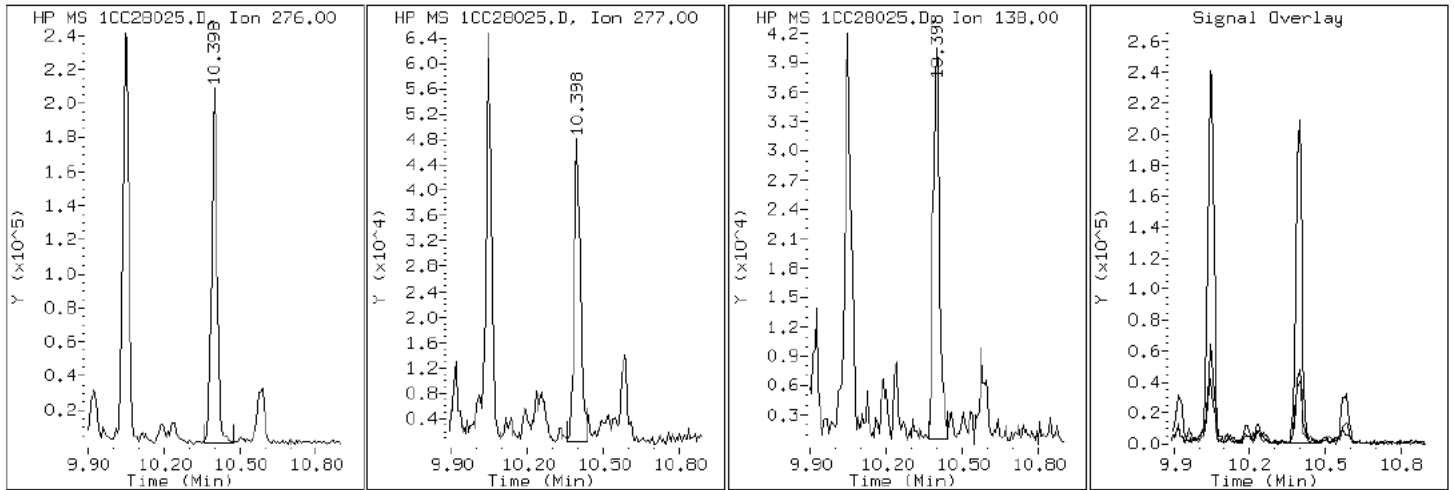
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

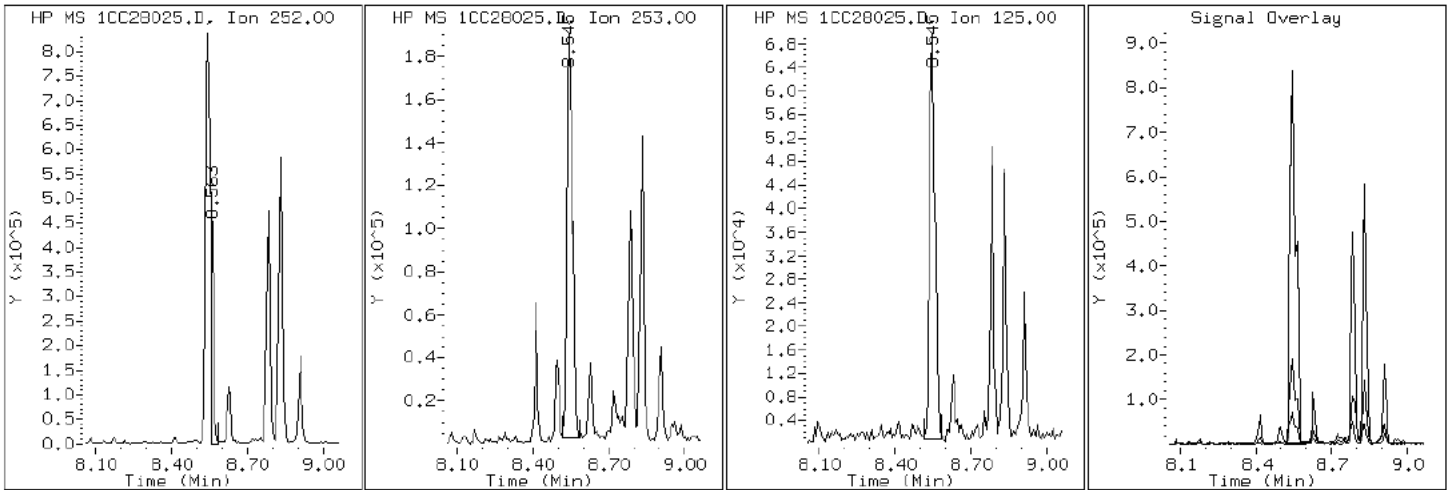
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

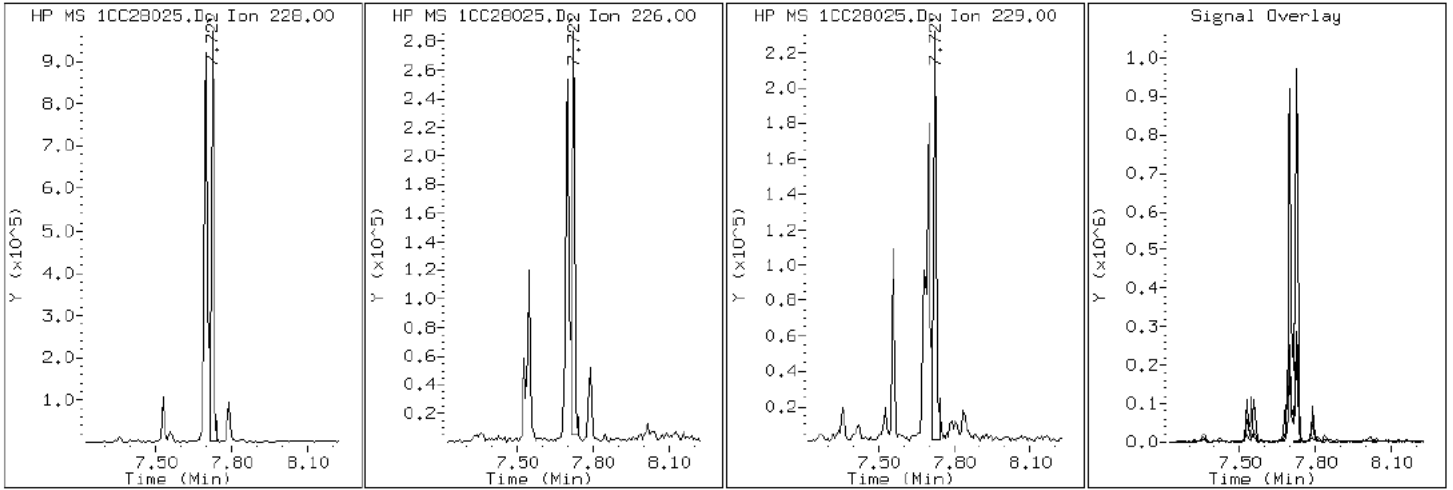
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

19 Chrysene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

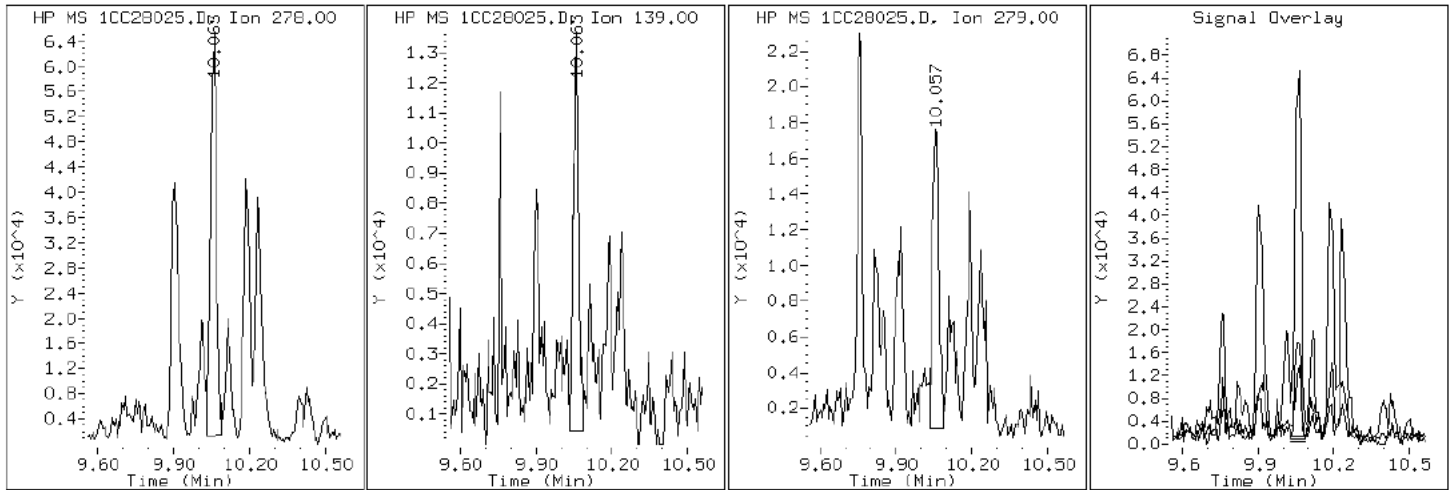
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

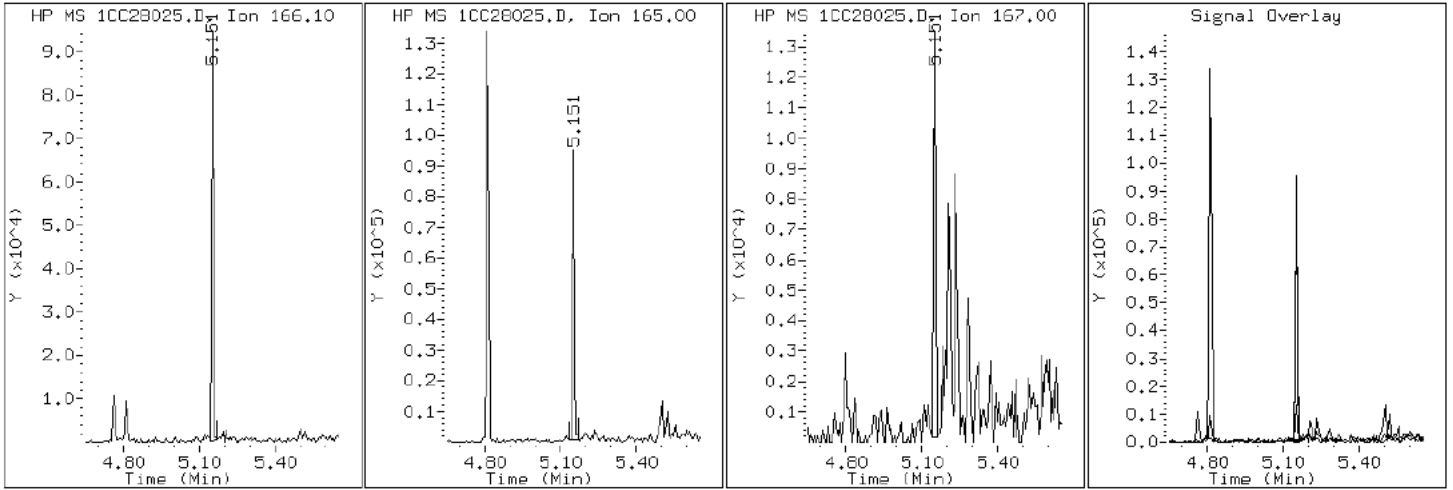
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

9 Fluorene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

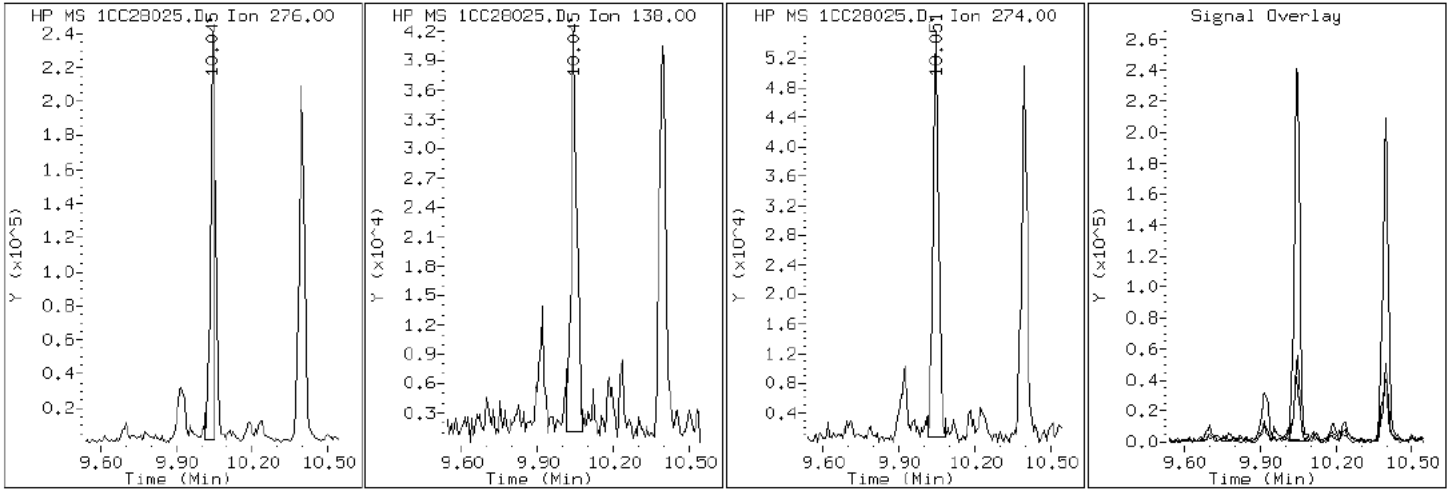
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

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



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

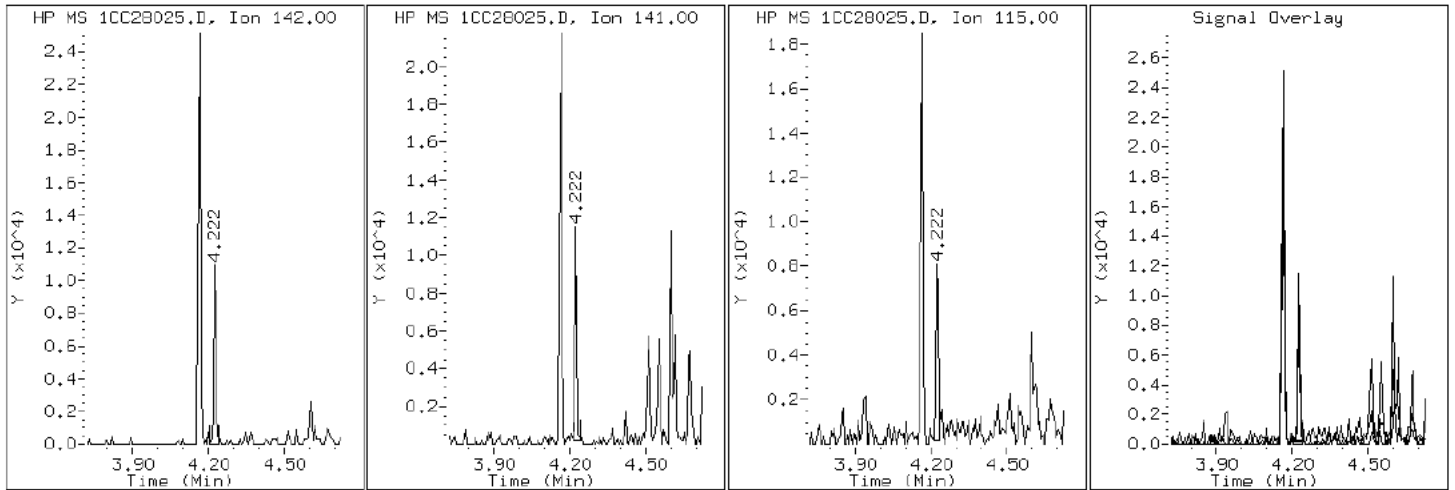
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

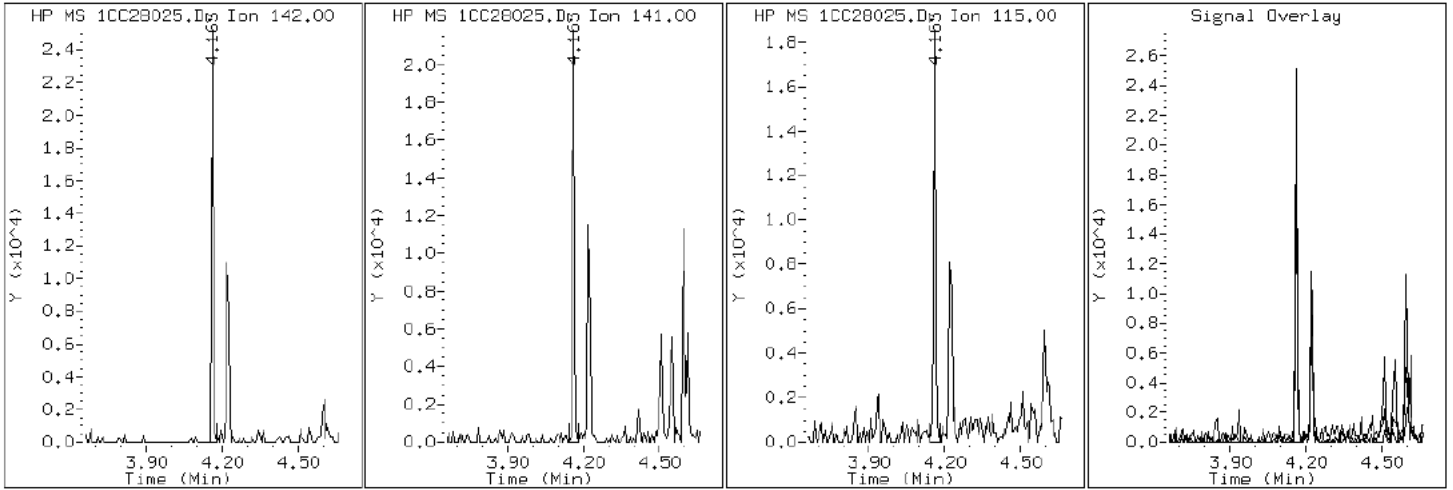
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

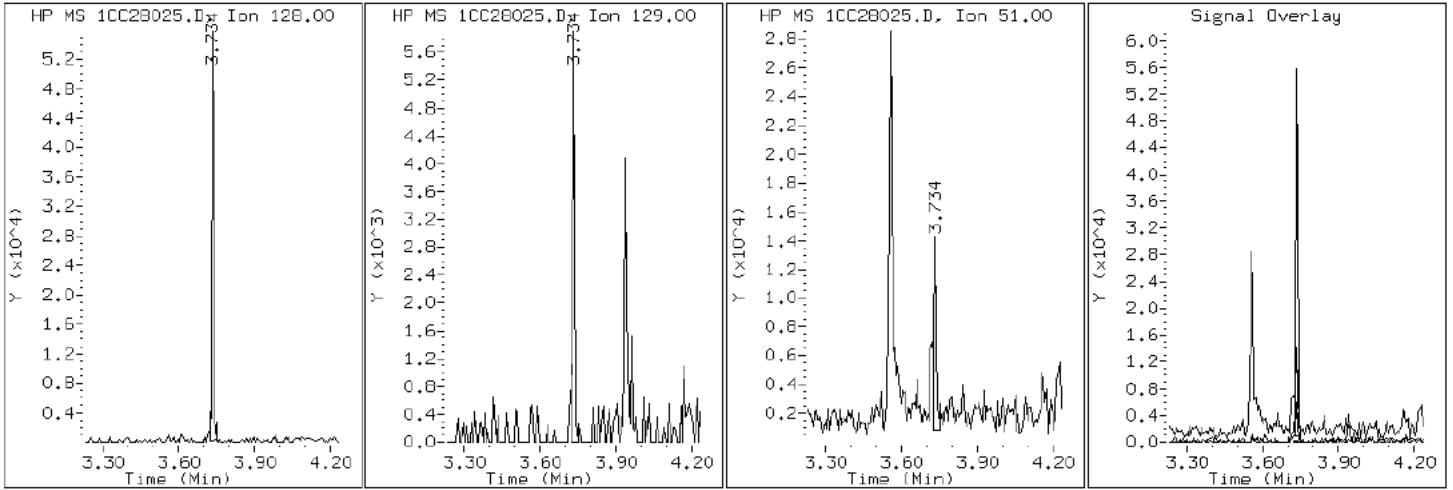
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

2 Naphthalene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

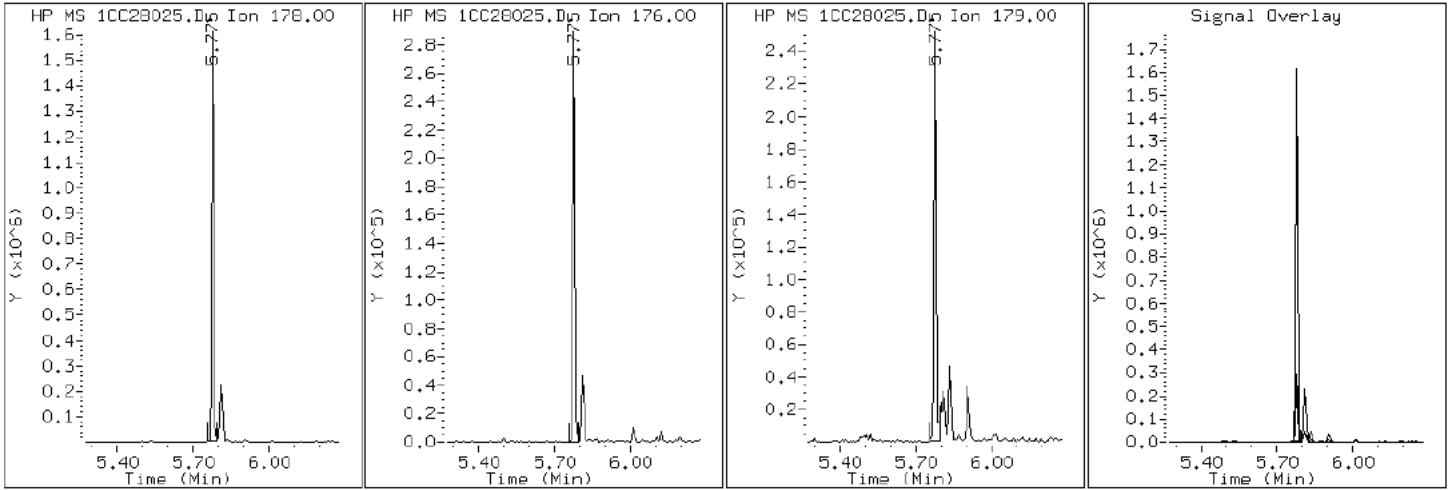
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28025.D

Date: 28-MAR-2013 18:44

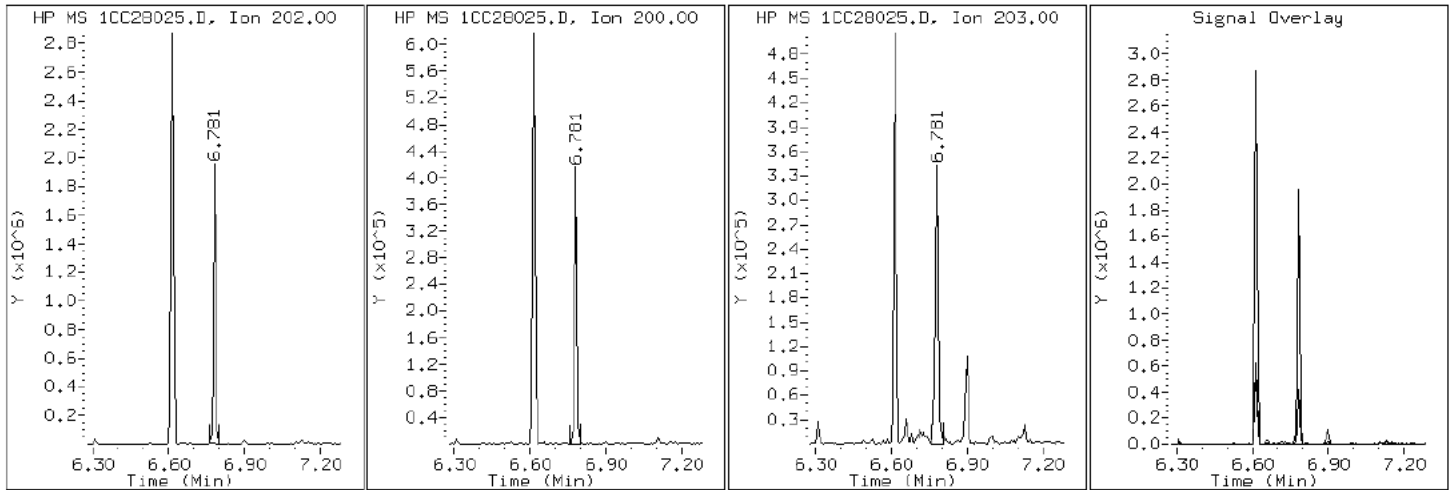
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-6-a

Operator: SCC

16 Pyrene

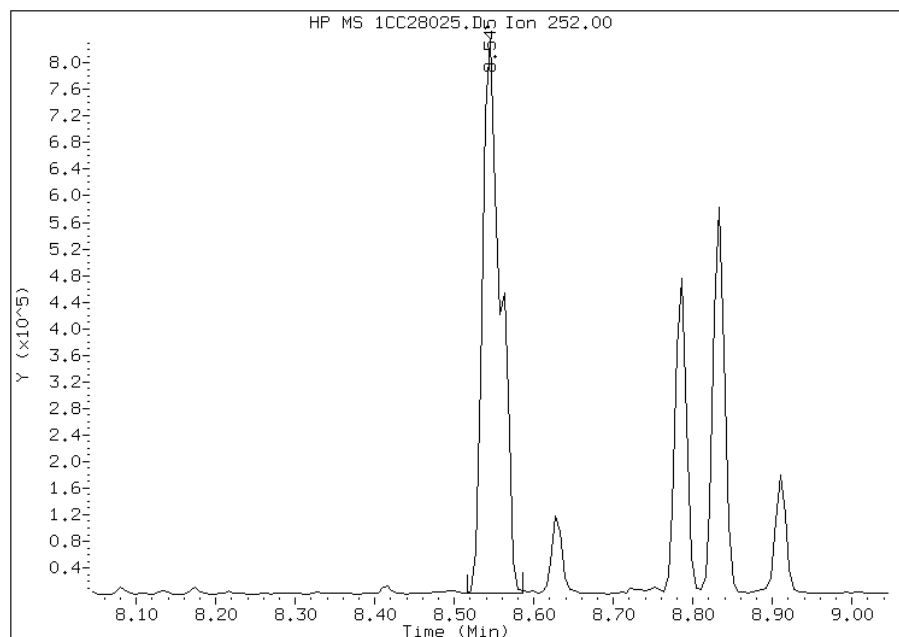


Manual Integration Report

Data File: 1CC28025.D
Inj. Date and Time: 28-MAR-2013 18:44
Instrument ID: BSMC5973.i
Client ID: CV1360Y-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/01/2013

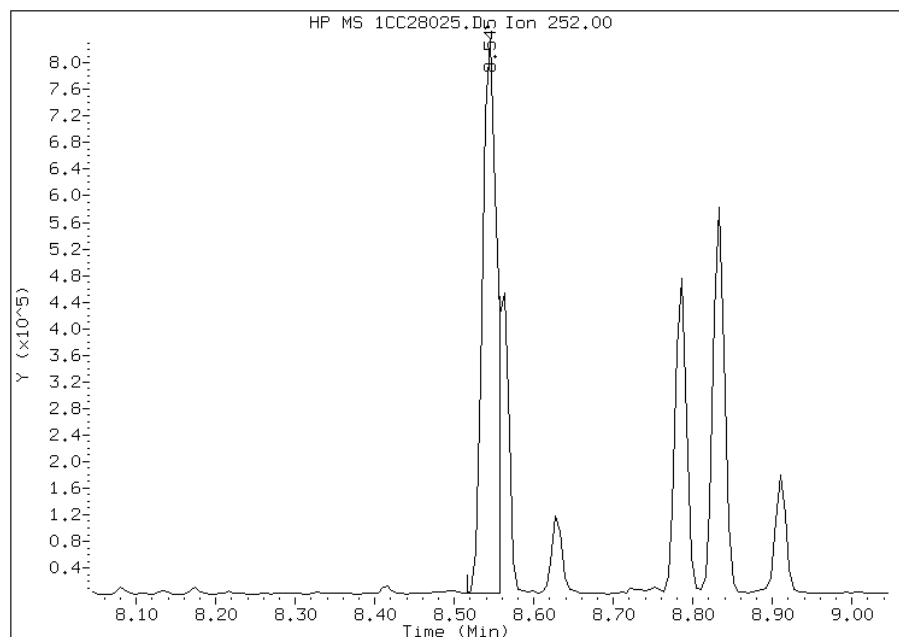
Processing Integration Results

RT: 8.55
Response: 1311624
Amount: 40
Conc: 3825



Manual Integration Results

RT: 8.55
Response: 1046568
Amount: 32
Conc: 3052



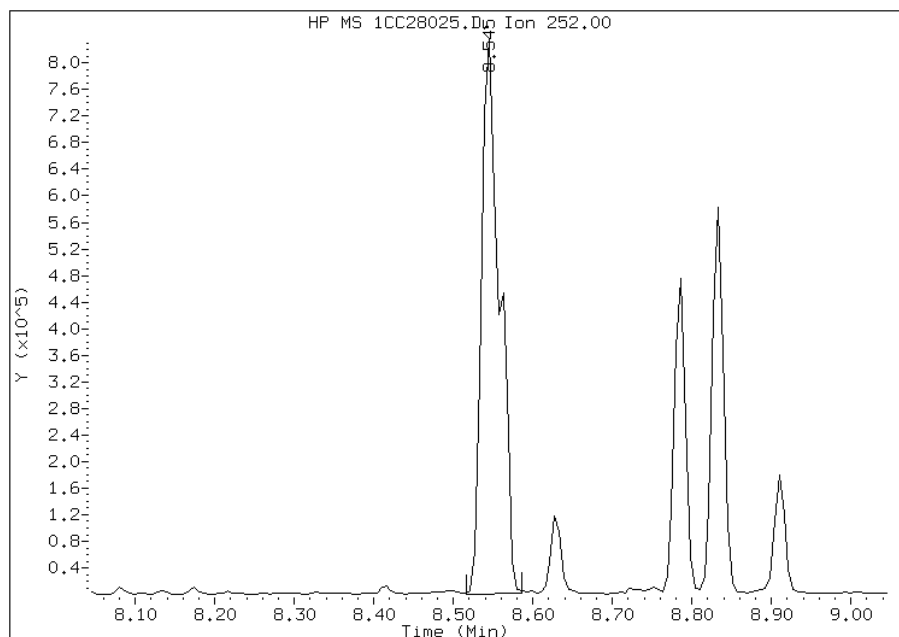
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC28025.D
Inj. Date and Time: 28-MAR-2013 18:44
Instrument ID: BSMC5973.i
Client ID: CV1360Y-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/01/2013

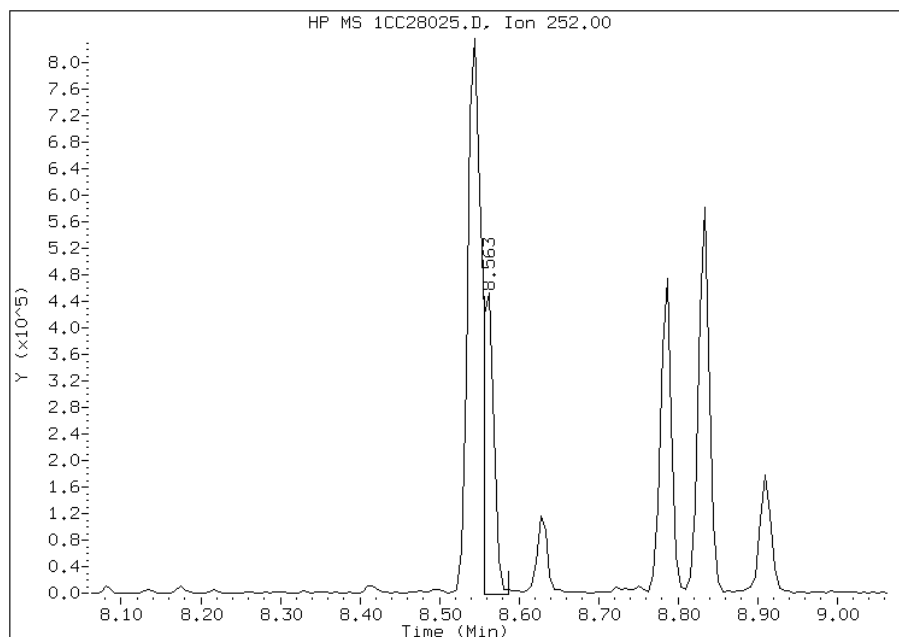
Processing Integration Results

RT: 8.55
Response: 1317320
Amount: 39
Conc: 3745



Manual Integration Results

RT: 8.56
Response: 419830
Amount: 13
Conc: 1194



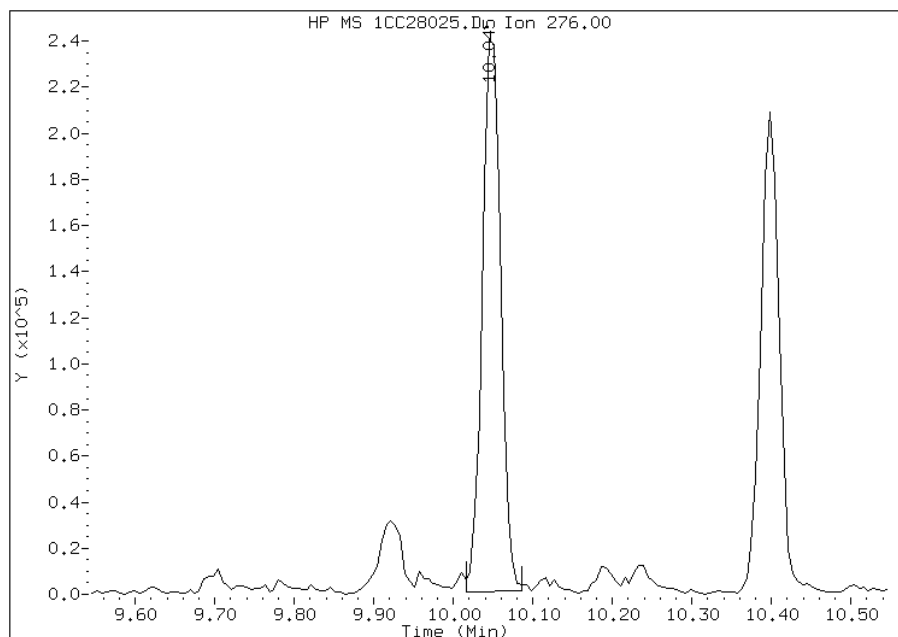
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28025.D
Inj. Date and Time: 28-MAR-2013 18:44
Instrument ID: BSMC5973.i
Client ID: CV1360Y-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

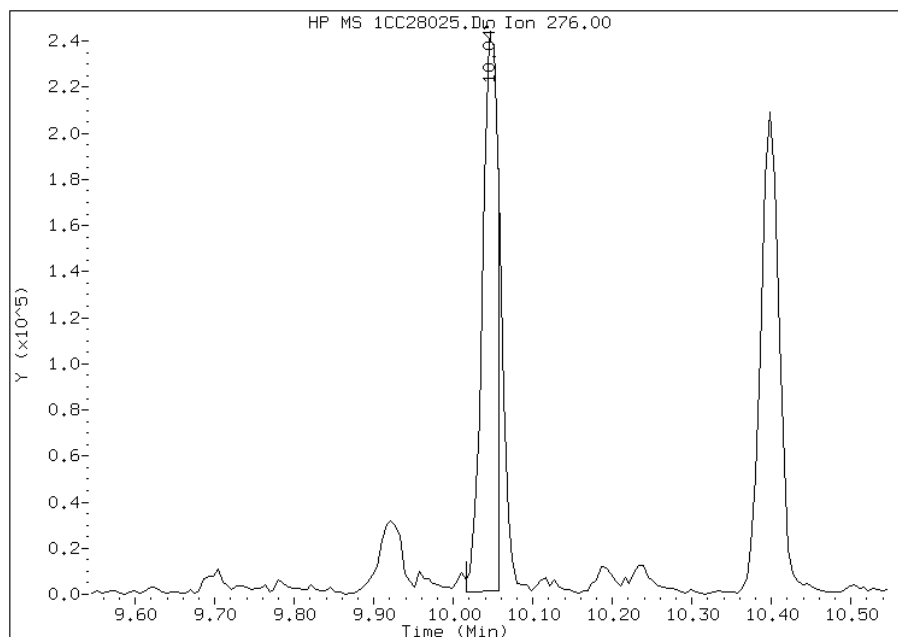
Processing Integration Results

RT: 10.05
Response: 384909
Amount: 13
Conc: 1229



Manual Integration Results

RT: 10.05
Response: 336445
Amount: 11
Conc: 1074



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1360Y-CS DL Lab Sample ID: 680-88592-6 DL
 Matrix: Solid Lab File ID: 1CD01012.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 09:10
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.34(g) Date Analyzed: 04/01/2013 14:33
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 31.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135996 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	4000		110	23

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\1CD01012.D
 Lab Smp Id: 680-88592-A-6-A Client Smp ID: CV1360Y-CS
 Inj Date : 01-APR-2013 14:33
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-A-6-A
 Misc Info : 680-88592-A-6-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C040113.b\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: 12
 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	15.340	Weight Extracted
M	31.349	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.715	3.716	(1.000)	689240	40.0000		
* 6 Acenaphthene-d10	164		4.804	4.804	(1.000)	533515	40.0000		
* 10 Phenanthrene-d10	188		5.751	5.757	(1.000)	1020797	40.0000		
\$ 14 o-Terphenyl	230		6.004	6.004	(1.044)	21097	1.36884	519.9271	
* 18 Chrysene-d12	240		7.692	7.698	(1.000)	1346226	40.0000		
* 23 Perylene-d12	264		8.874	8.886	(1.000)	1288945	40.0000		
2 Naphthalene	128		3.733	3.733	(1.005)	6430	0.35835	136.1107(Q)	
3 2-Methylnaphthalene	142		4.157	4.157	(1.119)	3571	0.29835	113.3226	
4 1-Methylnaphthalene	142		4.215	4.222	(1.135)	2299	0.21090	80.1053(Q)	
5 Acenaphthylene	152		4.715	4.716	(0.982)	910	0.04231	16.0693(aQ)	
7 Acenaphthene	154		4.827	4.827	(1.005)	9954	0.74453	282.7959	
9 Fluorene	166		5.145	5.145	(1.071)	10707	0.63325	240.5259	
11 Phenanthrene	178		5.768	5.768	(1.003)	187230	6.34314	2409.3128	
12 Anthracene	178		5.804	5.804	(1.009)	25599	0.88678	336.8252	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.909	5.910	(1.028)	30737	1.19781	454.9623
15 Fluoranthene	202	6.604	6.604	(1.148)	341692	10.5706	4015.0460
16 Pyrene	202	6.774	6.774	(0.881)	261095	7.21698	2741.2233
17 Benzo(a)anthracene	228	7.686	7.692	(0.999)	172885	4.44953	1690.0634
19 Chrysene	228	7.709	7.715	(1.002)	173772	4.46900	1697.4594
20 Benzo(b)fluoranthene	252	8.527	8.539	(0.961)	263379	7.81890	2969.8510
21 Benzo(k)fluoranthene	252	8.527	8.562	(0.961)	265973	7.69698	2923.5425
22 Benzo(a)pyrene	252	8.815	8.827	(0.993)	121581	3.71590	1411.4109
24 Indeno(1,2,3-cd)pyrene	276	10.021	10.039	(1.129)	83683	2.71880	1032.6808
25 Dibenzo(a,h)anthracene	278	10.033	10.056	(1.131)	25577	0.84955	322.6838
26 Benzo(g,h,i)perylene	276	10.368	10.386	(1.168)	70007	2.17428	825.8549

QC Flag Legend

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

Data File: 1CD01012.D

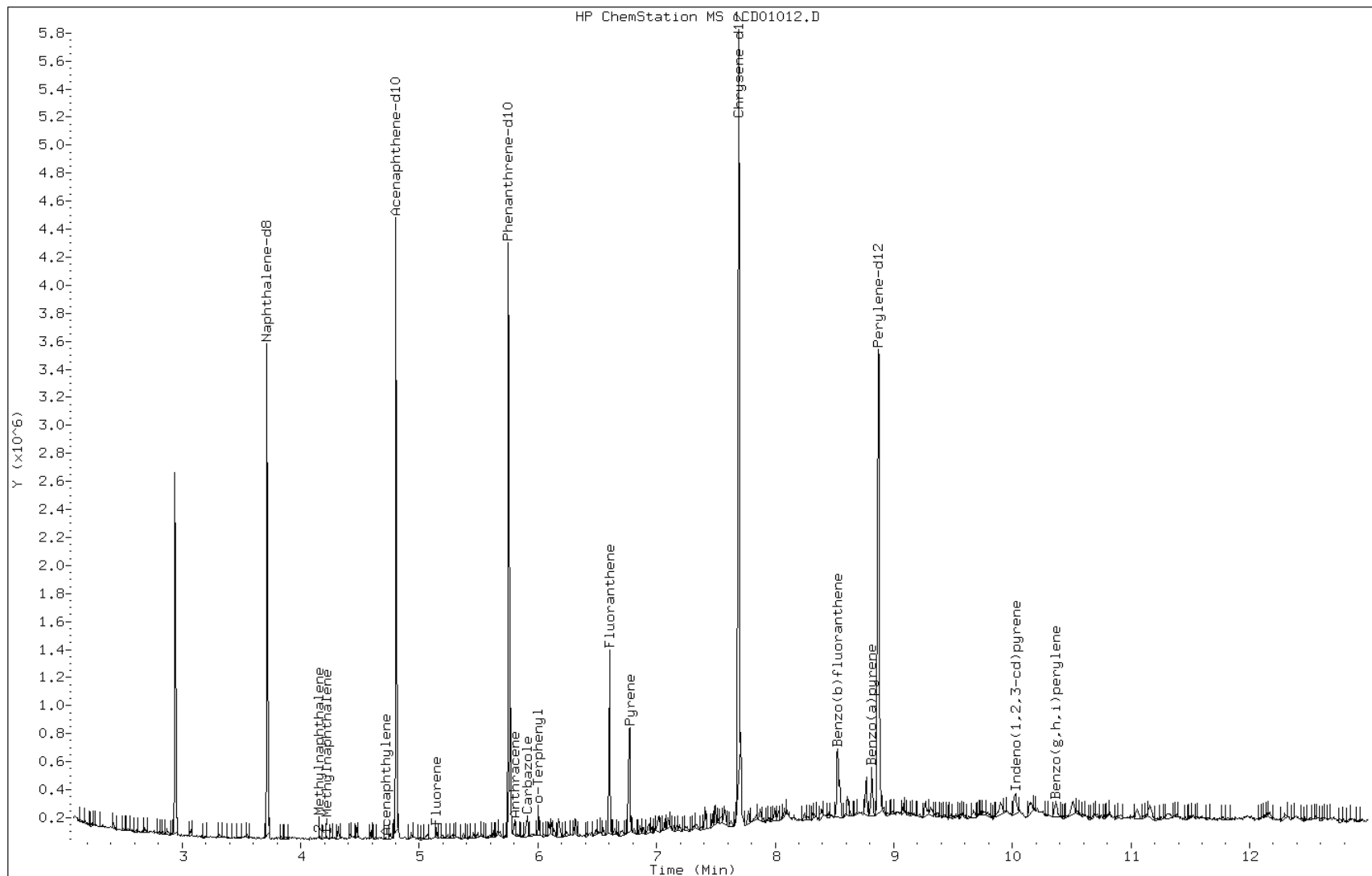
Date: 01-APR-2013 14:33

Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-A-6-A

Operator: SCC



Data File: 1CD01012.D

Date: 01-APR-2013 14:33

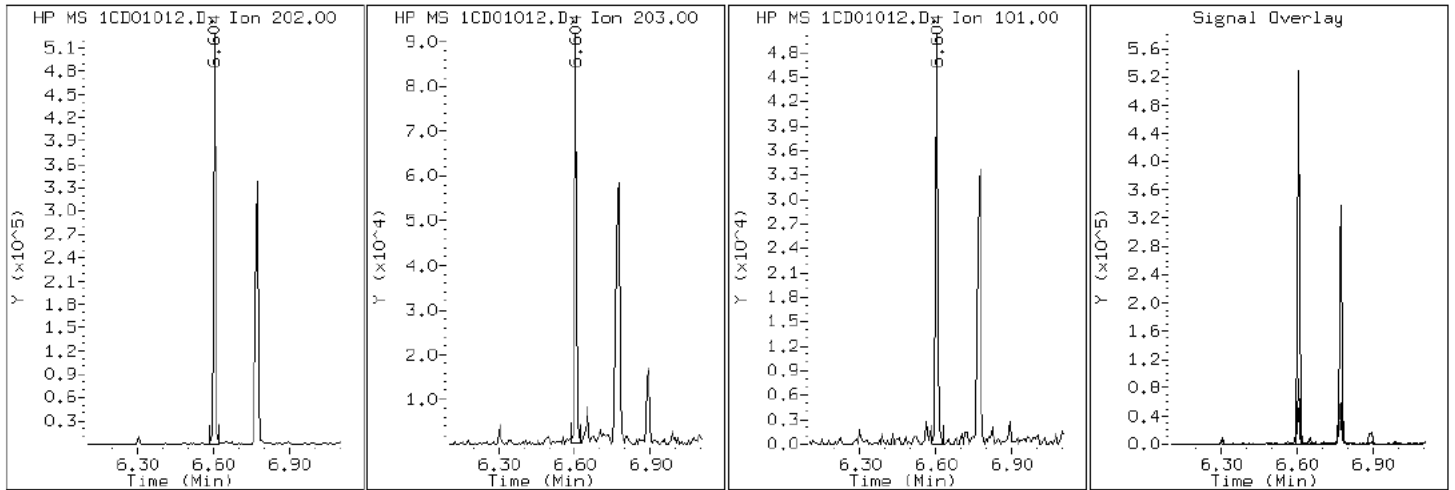
Client ID: CV1360Y-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-A-6-A

Operator: SCC

15 Fluoranthene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1360Z-CS Lab Sample ID: 680-88592-7
 Matrix: Solid Lab File ID: 1CC28026.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 09:25
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.24(g) Date Analyzed: 03/28/2013 19:03
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 23.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	38	J	130	26
208-96-8	Acenaphthylene	18	J	51	6.4
120-12-7	Anthracene	88		11	5.4
56-55-3	Benzo[a]anthracene	550		10	5.0
50-32-8	Benzo[a]pyrene	480		13	6.7
205-99-2	Benzo[b]fluoranthene	820		16	7.8
191-24-2	Benzo[g,h,i]perylene	300		26	5.6
207-08-9	Benzo[k]fluoranthene	280		10	4.6
218-01-9	Chrysene	540		12	5.8
53-70-3	Dibenz(a,h)anthracene	93		26	5.3
206-44-0	Fluoranthene	1000		26	5.1
86-73-7	Fluorene	44		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	290		26	9.1
90-12-0	1-Methylnaphthalene	29	J	51	5.6
91-57-6	2-Methylnaphthalene	39	J	51	9.1
91-20-3	Naphthalene	39	J	51	5.6
85-01-8	Phenanthrene	440		10	5.0
129-00-0	Pyrene	870		26	4.7

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

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28026.D
 Lab Smp Id: 680-88592-A-7-A Client Smp ID: CV1360Z-CS
 Inj Date : 28-MAR-2013 19:03
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-7-a
 Misc Info : 680-88592-A-7-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 26
 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	15.240	Weight Extracted
M	23.163	% 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		3.721	3.722	(1.000)	819781	40.0000		
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	640623	40.0000		
* 10 Phenanthrene-d10	188		5.762	5.763	(1.000)	1166909	40.0000		
\$ 14 o-Terphenyl	230		6.009	6.010	(1.043)	108790	6.17482	527.3103	
* 18 Chrysene-d12	240		7.703	7.704	(1.000)	1298113	40.0000		
* 23 Perylene-d12	264		8.892	8.886	(1.000)	1275038	40.0000		
2 Naphthalene	128		3.733	3.733	(1.003)	9760	0.45731	39.0532(Q)	
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	6493	0.45610	38.9491	
4 1-Methylnaphthalene	142		4.227	4.222	(1.136)	4360	0.33627	28.7167	
5 Acenaphthylene	152		4.727	4.722	(0.983)	5513	0.21345	18.2280	
7 Acenaphthene	154		4.827	4.833	(1.004)	7176	0.44701	38.1729	
9 Fluorene	166		5.151	5.151	(1.071)	10497	0.51703	44.1526	
11 Phenanthrene	178		5.774	5.774	(1.002)	173562	5.14382	439.2663	
12 Anthracene	178		5.809	5.810	(1.008)	33861	1.02611	87.6268	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.915	5.921	(1.027)	33697	1.14873	98.0981
15 Fluoranthene	202	6.609	6.616	(1.147)	449472	12.1639	1038.7569
16 Pyrene	202	6.780	6.780	(0.880)	357379	10.2445	874.8498
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	241458	6.44471	550.3588
19 Chrysene	228	7.721	7.721	(1.002)	236910	6.31858	539.5872
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.960)	321440	9.64663	823.7925(M)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.963)	112579	3.29345	281.2507(QMH)
22 Benzo(a)pyrene	252	8.833	8.827	(0.993)	181098	5.59530	477.8216
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.045	(1.130)	104943	3.44671	294.3383(M)
25 Dibenzo(a,h)anthracene	278	10.062	10.062	(1.132)	32500	1.09127	93.1913
26 Benzo(g,h,i)perylene	276	10.392	10.398	(1.169)	112695	3.53825	302.1560

QC Flag Legend

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

Data File: 1CC28026.D

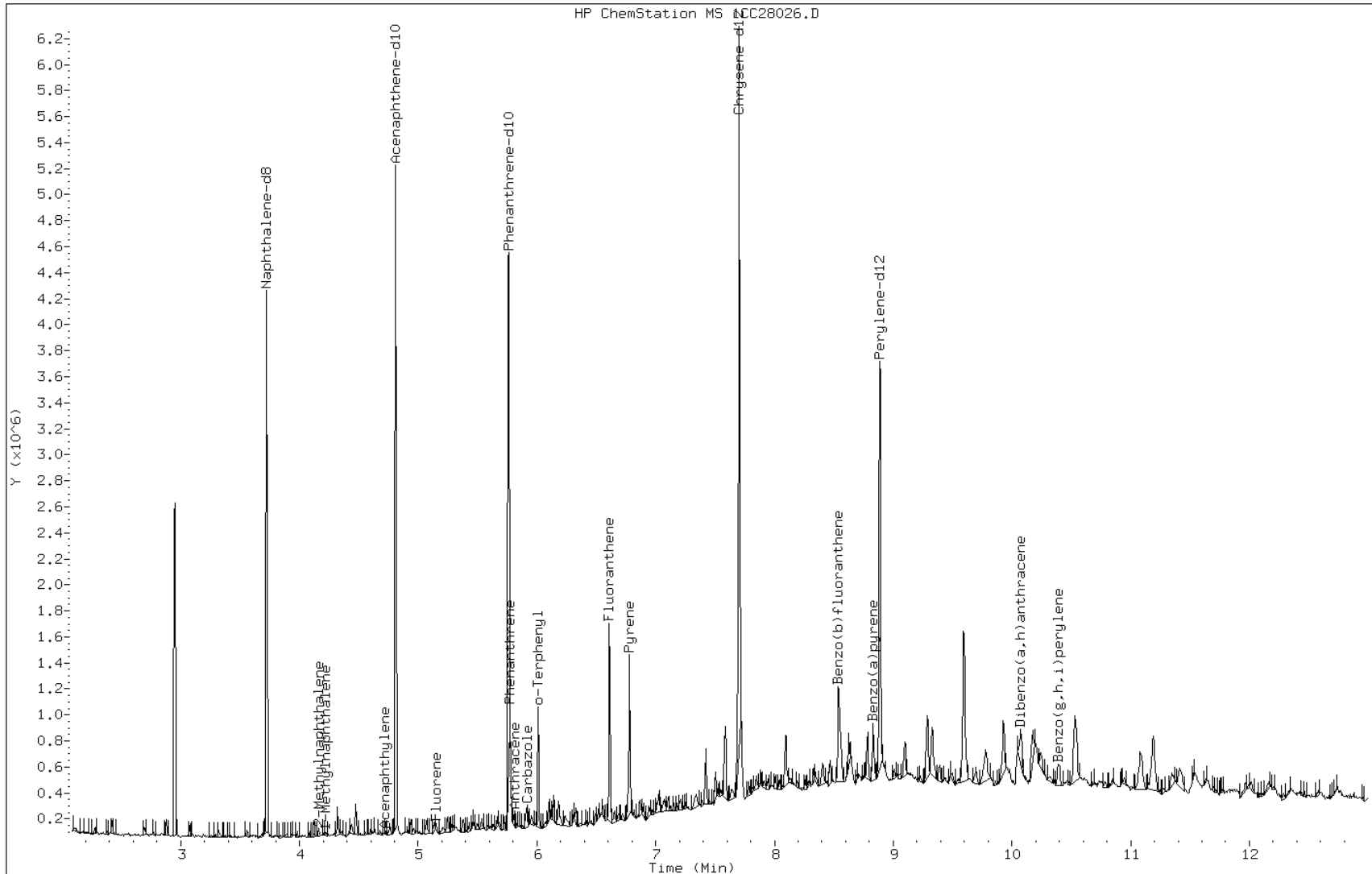
Date: 28-MAR-2013 19:03

Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

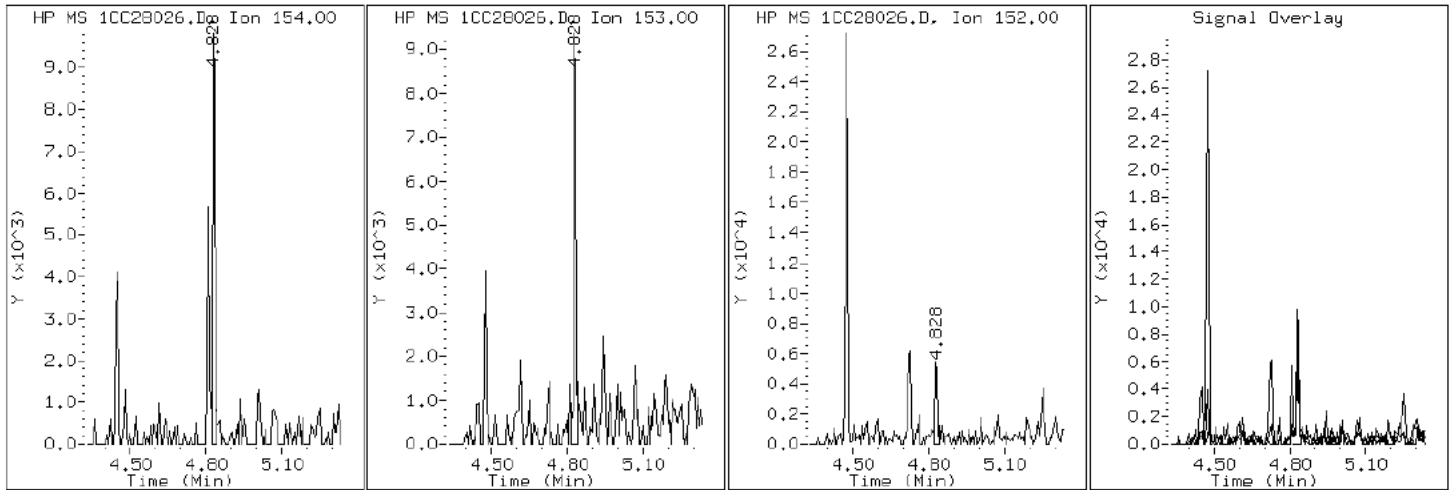
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

7 Acenaphthene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

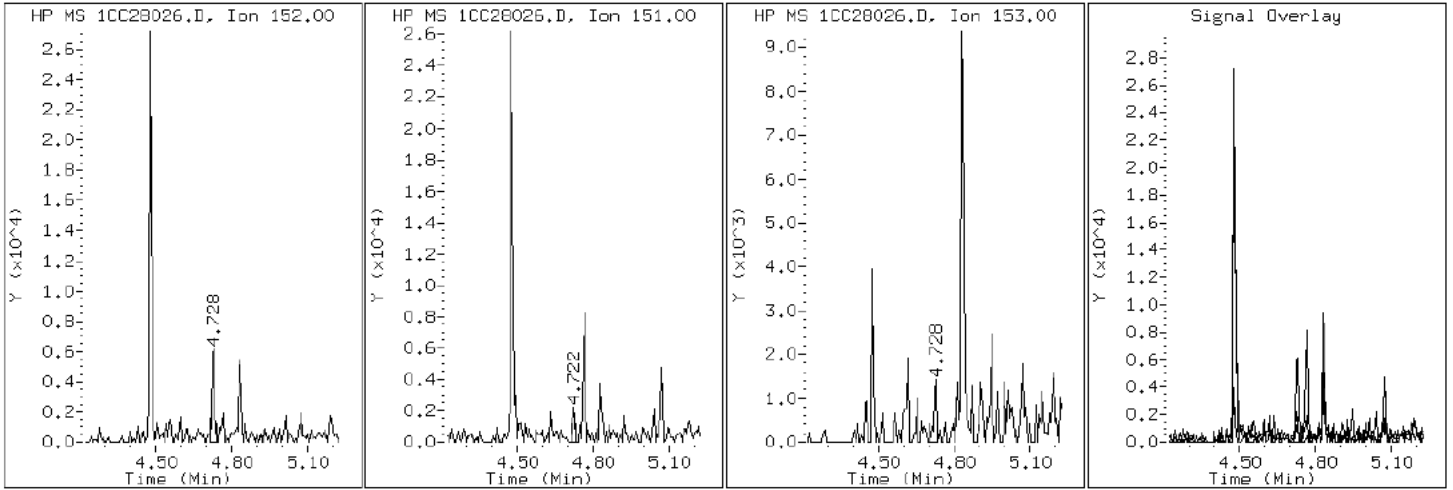
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

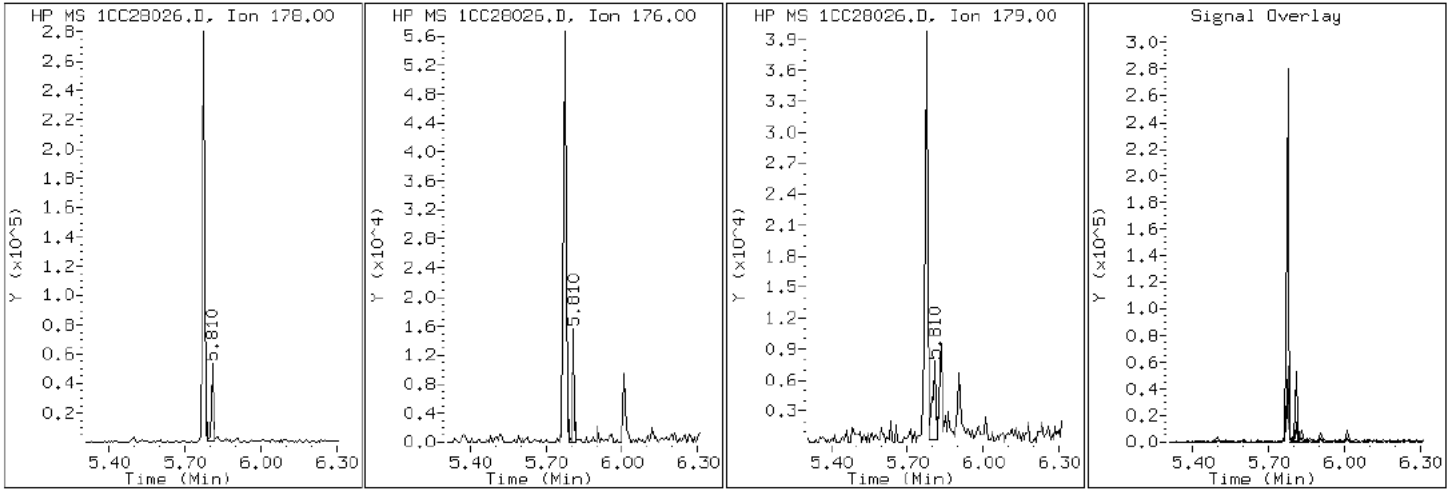
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

12 Anthracene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

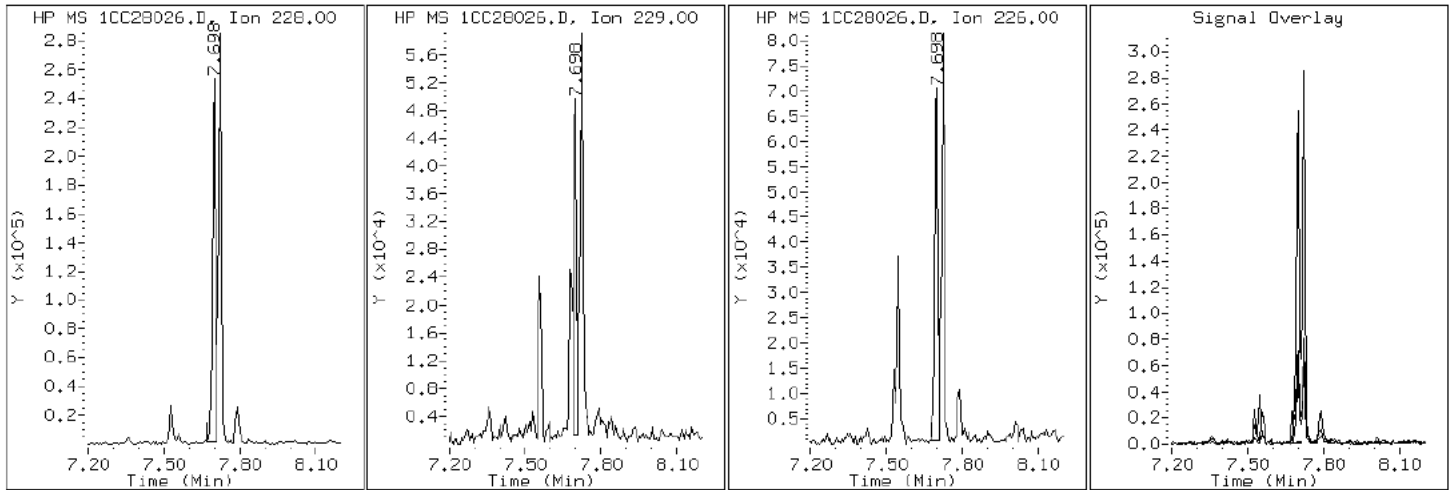
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

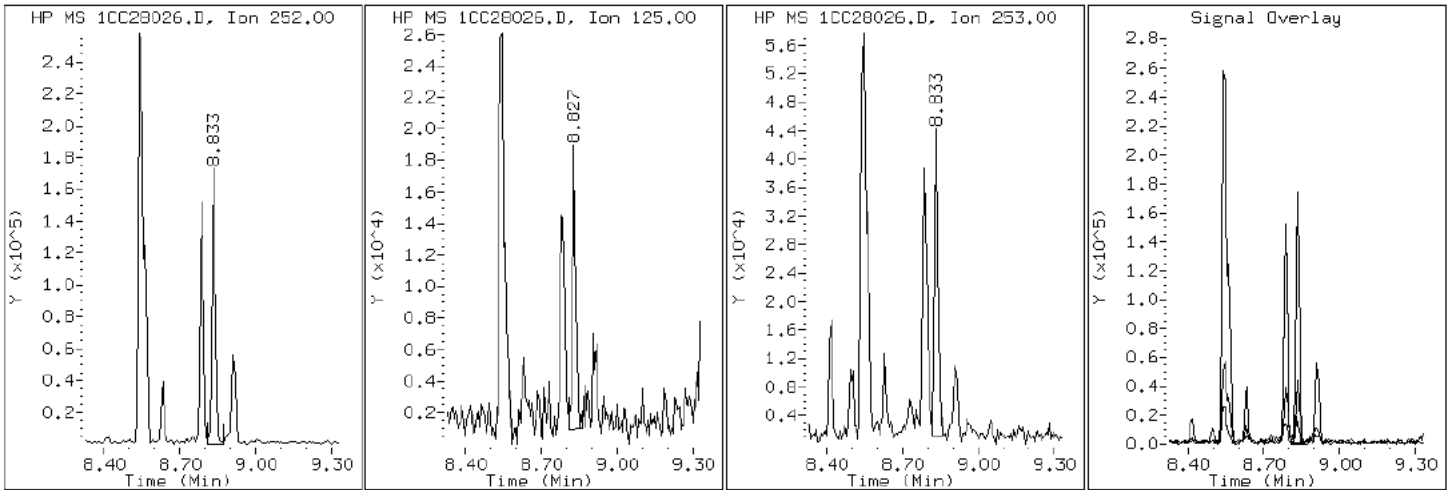
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

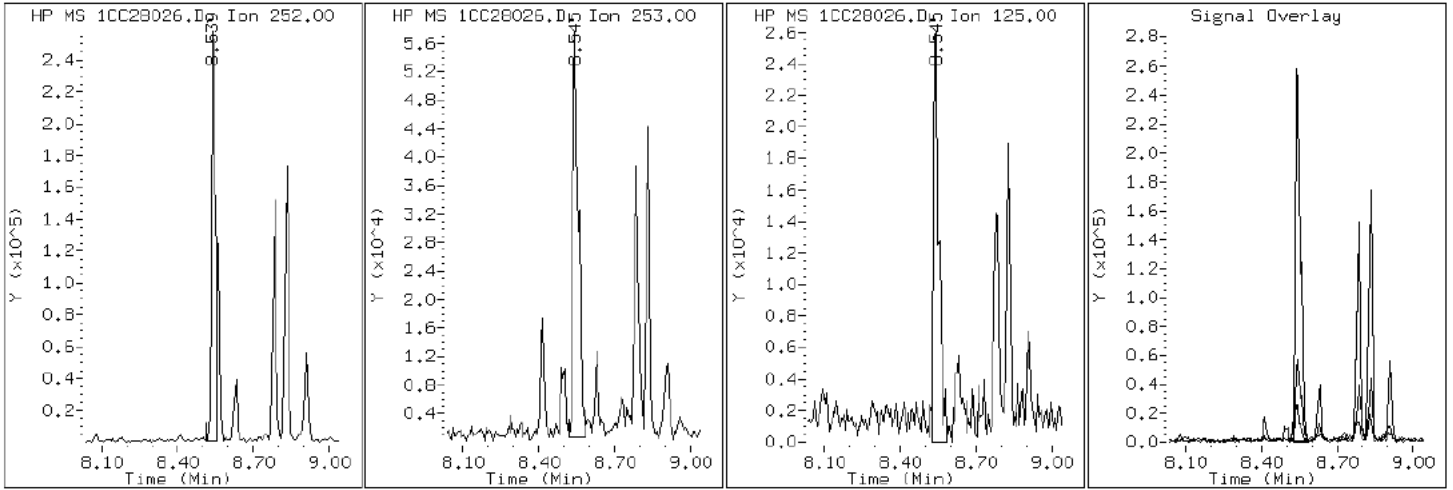
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

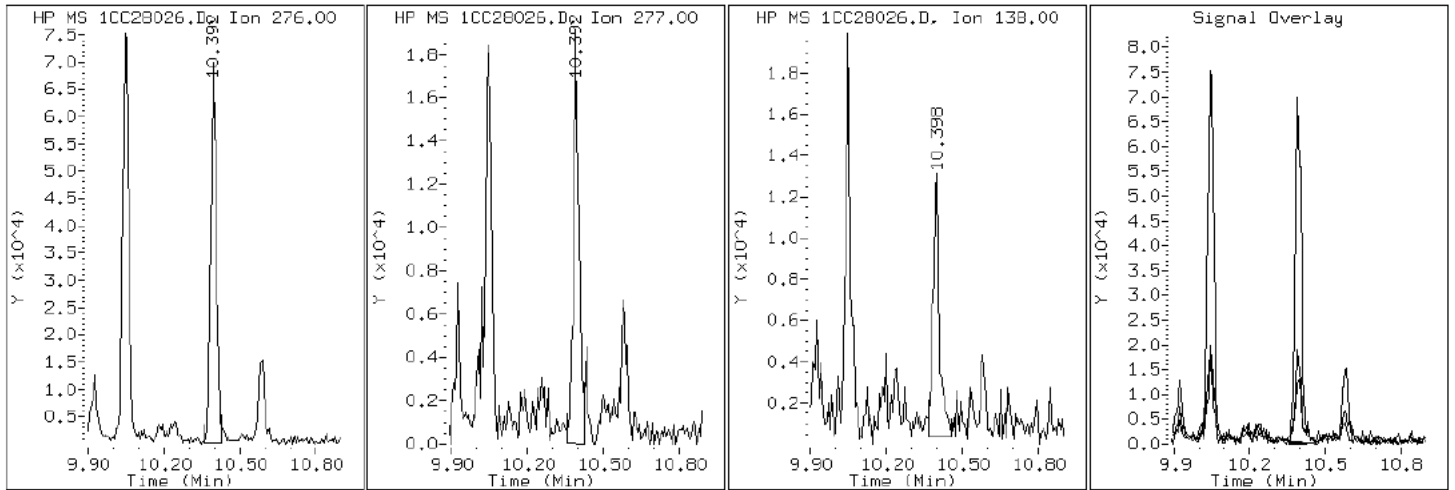
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

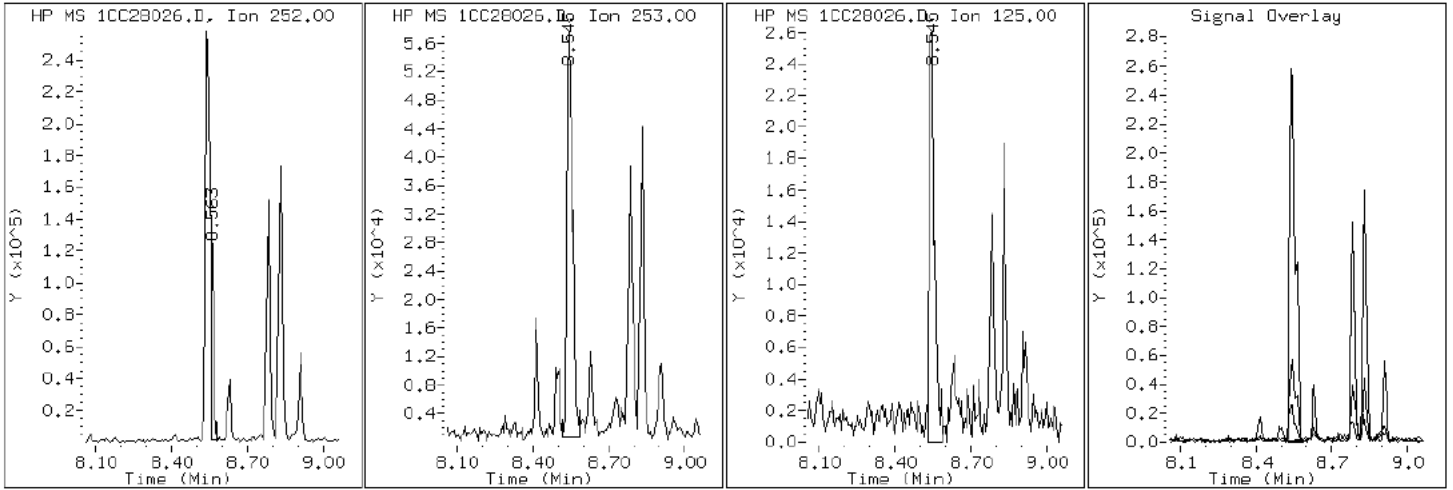
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

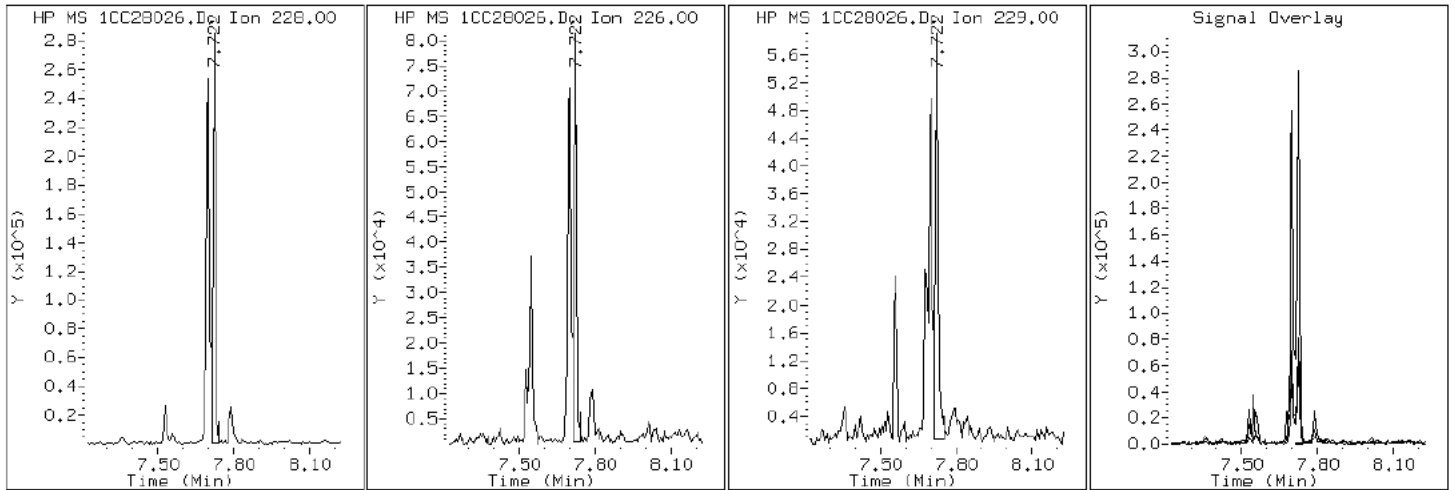
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

19 Chrysene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

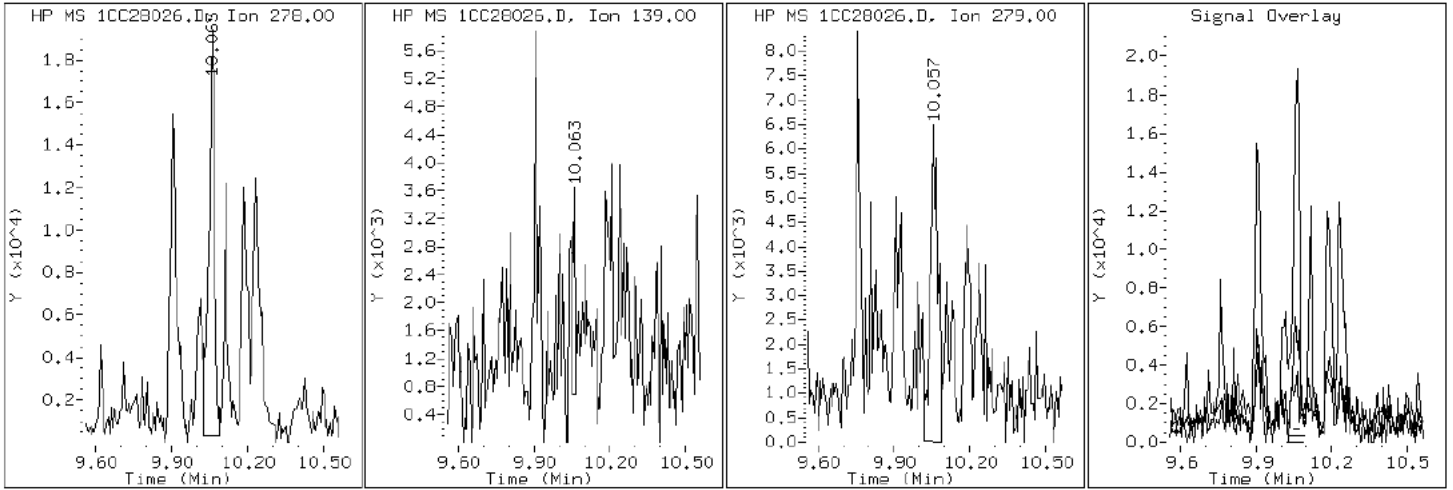
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

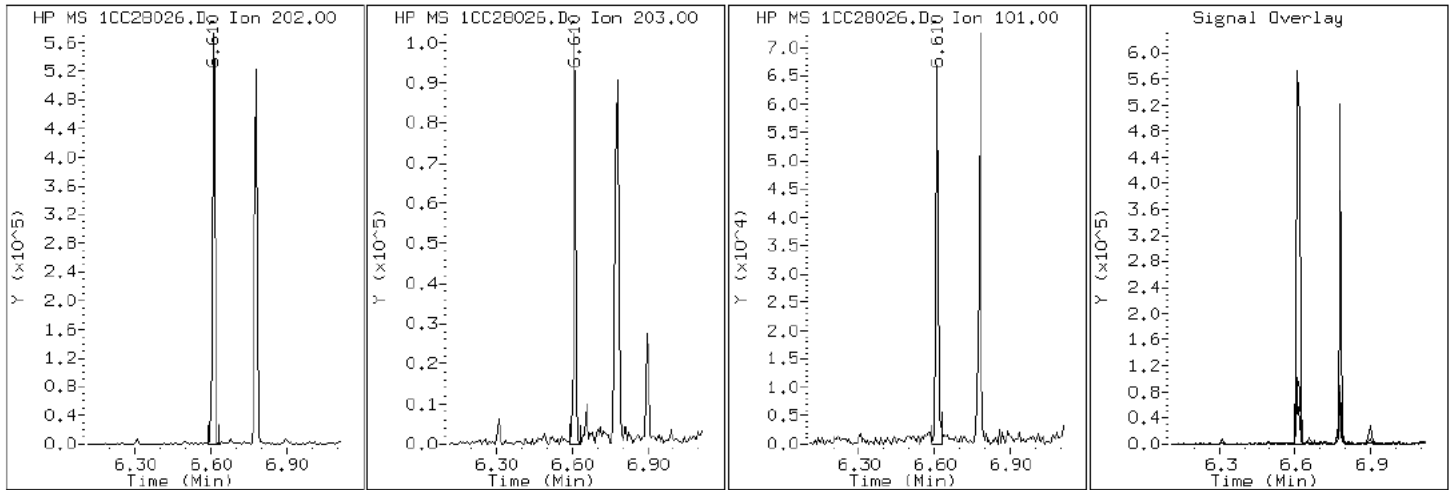
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

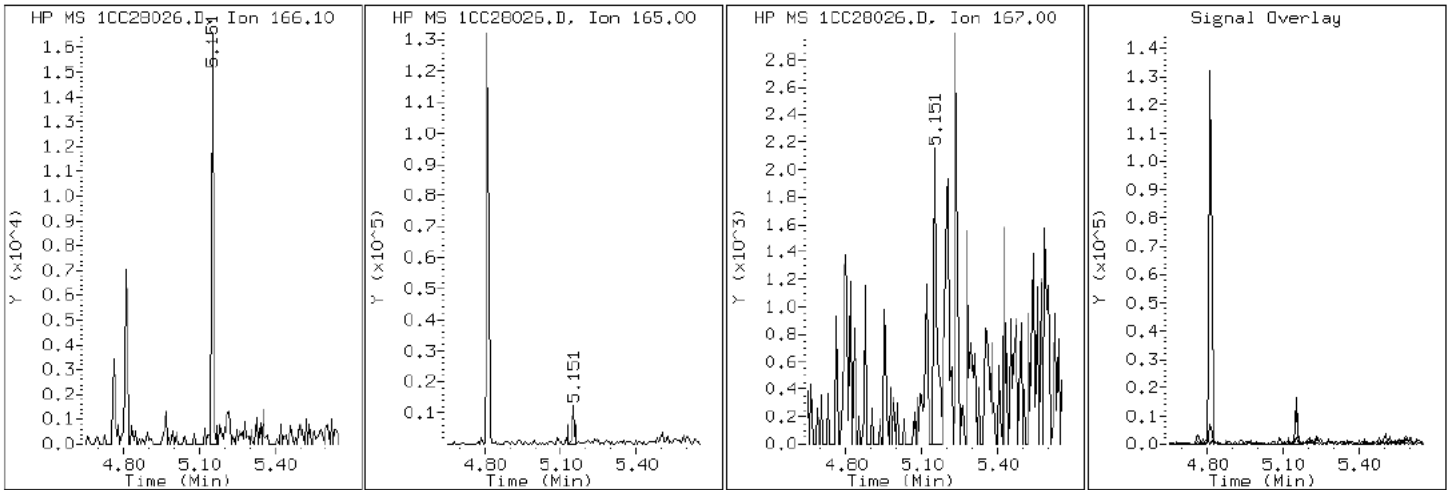
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

9 Fluorene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

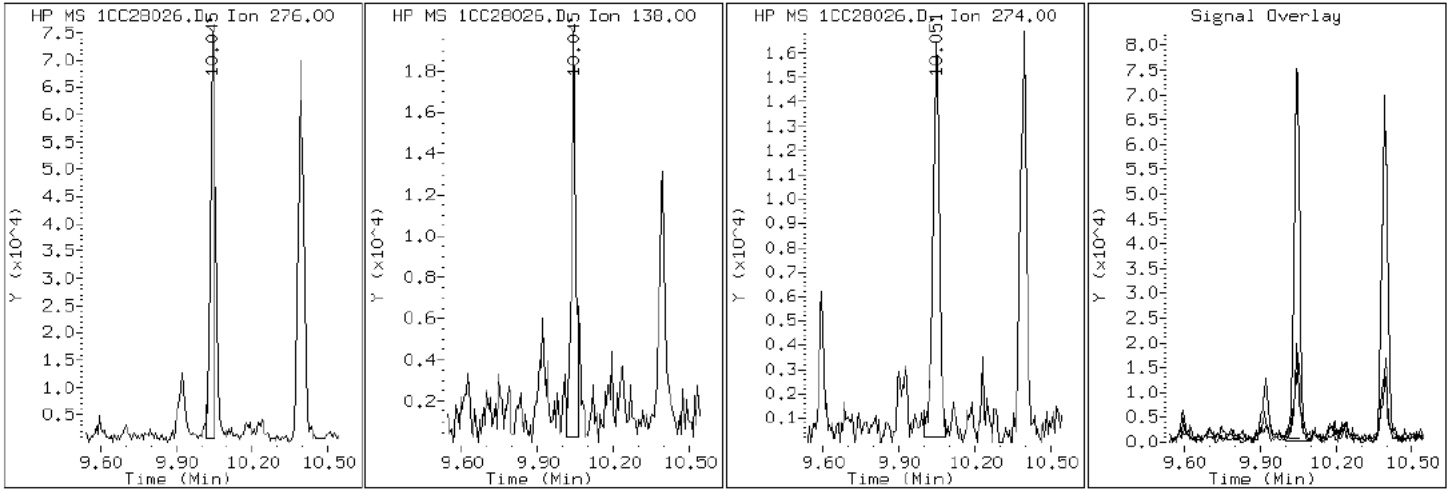
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

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



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

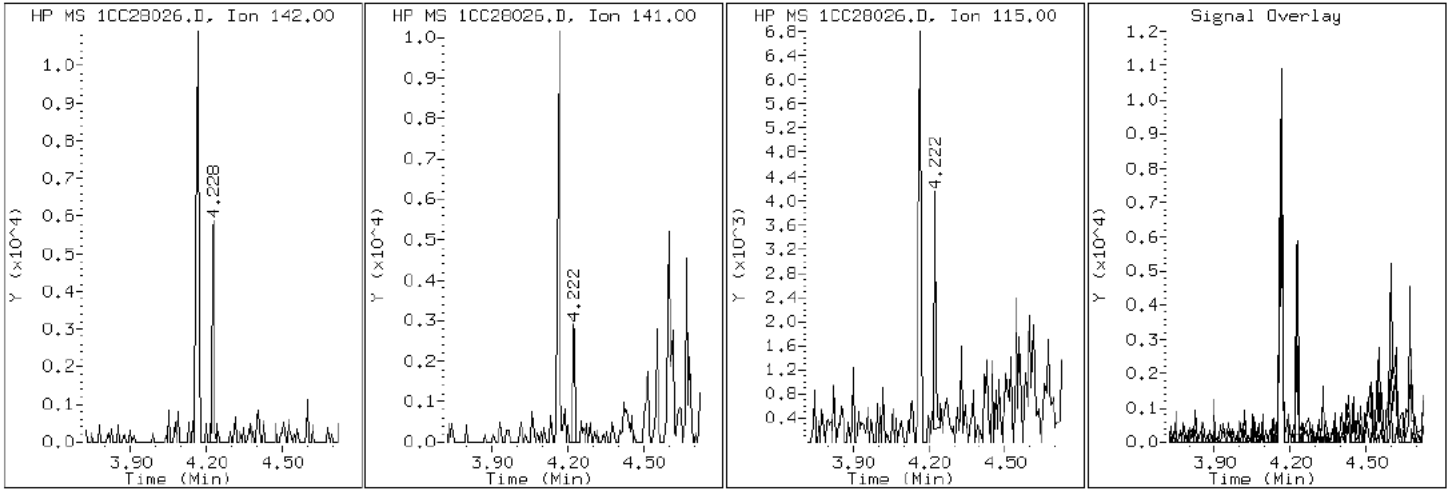
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

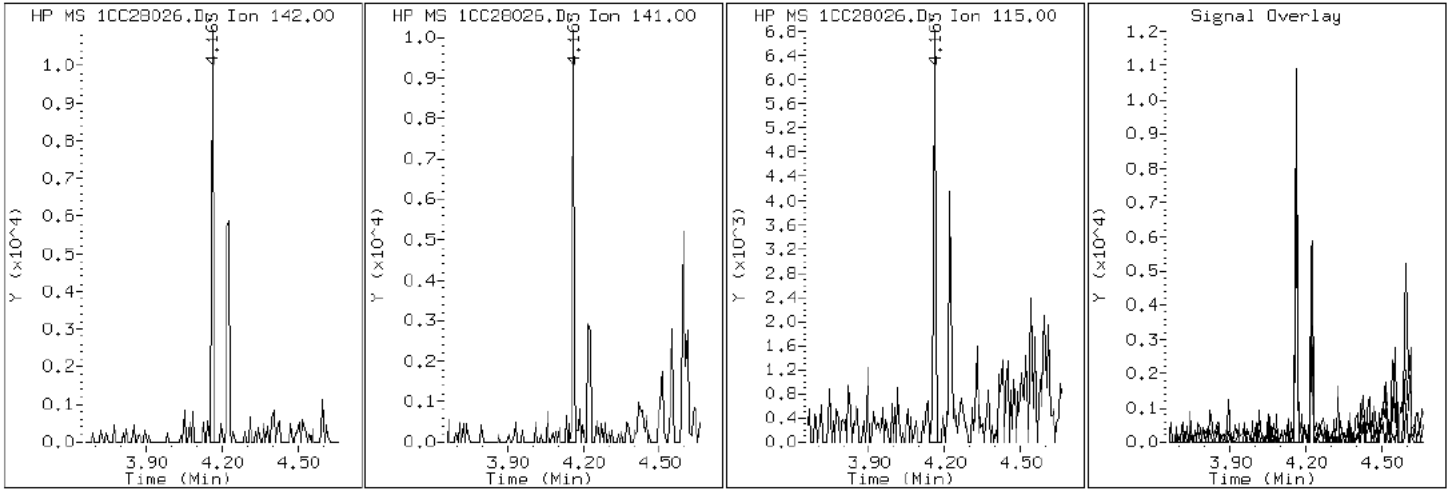
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

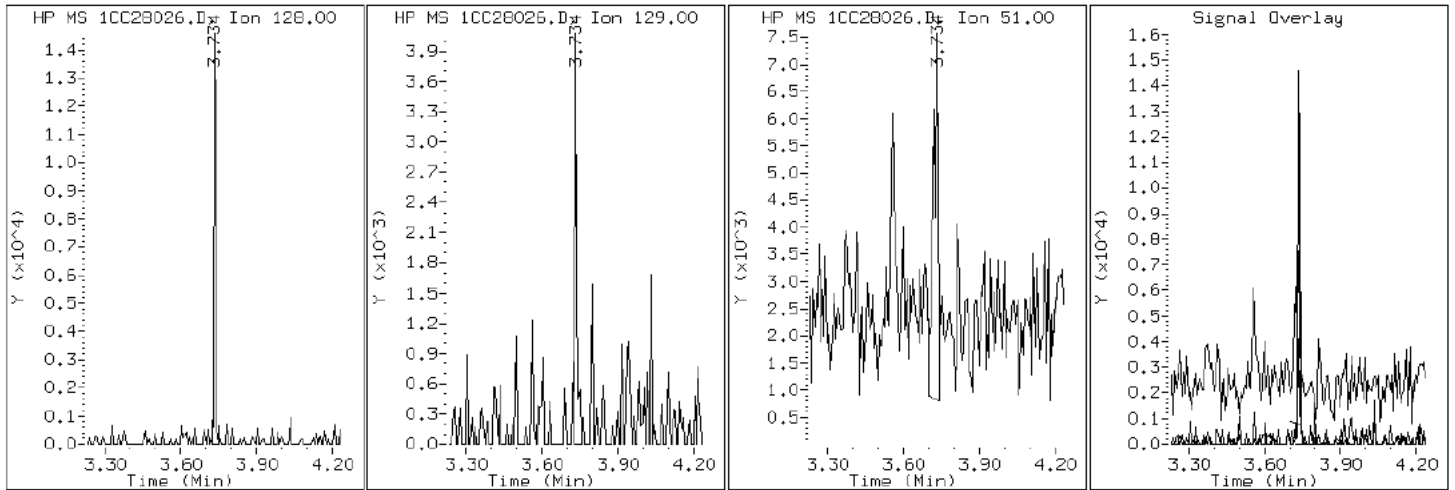
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

2 Naphthalene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

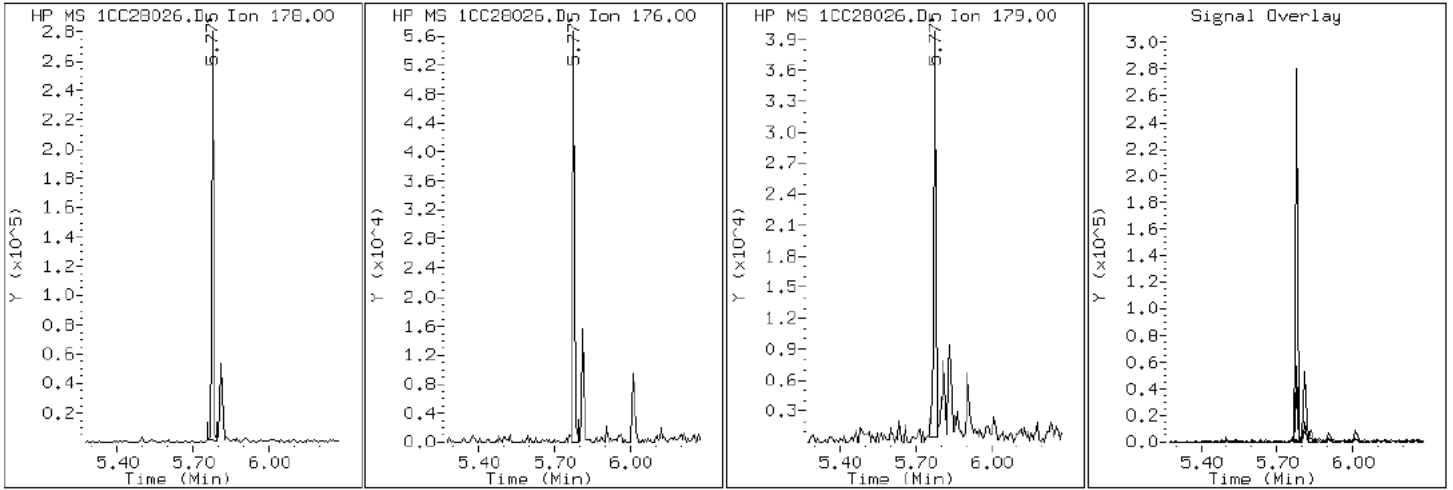
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28026.D

Date: 28-MAR-2013 19:03

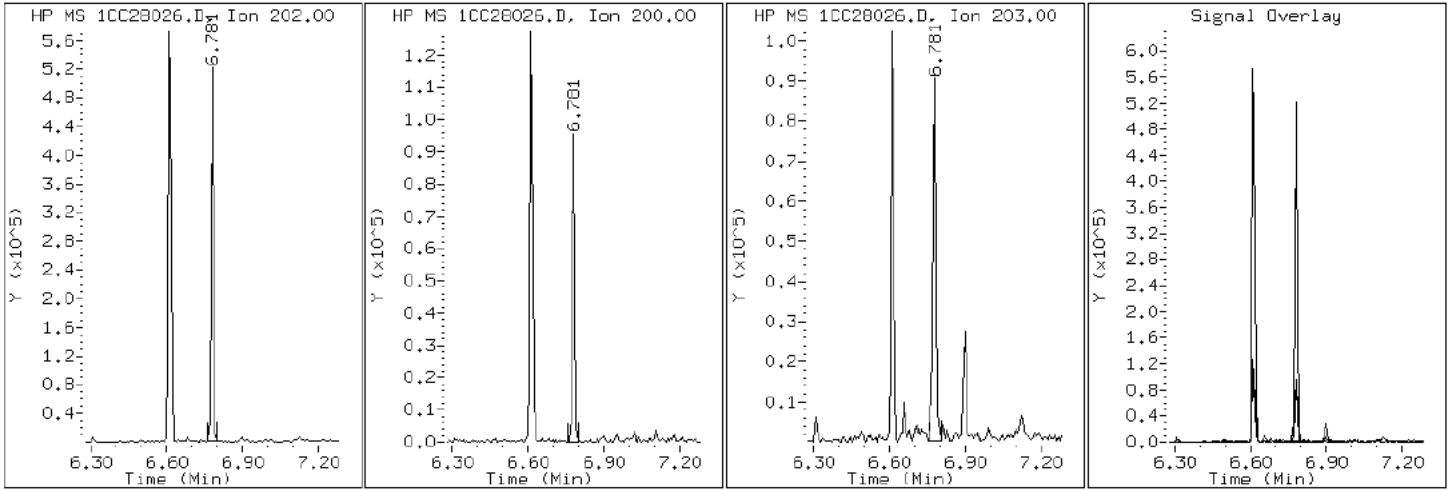
Client ID: CV1360Z-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-7-a

Operator: SCC

16 Pyrene

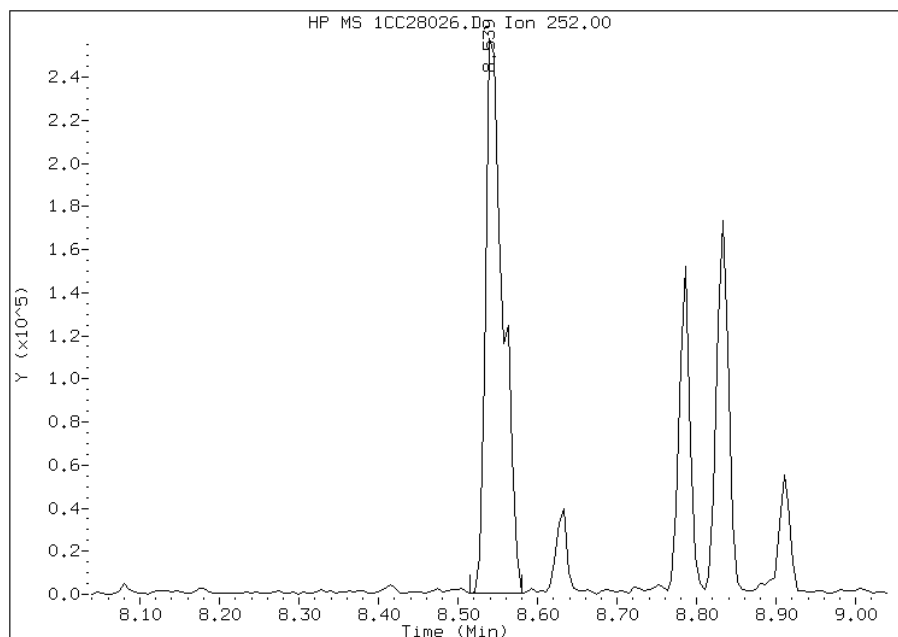


Manual Integration Report

Data File: 1CC28026.D
Inj. Date and Time: 28-MAR-2013 19:03
Instrument ID: BSMC5973.i
Client ID: CV1360Z-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/01/2013

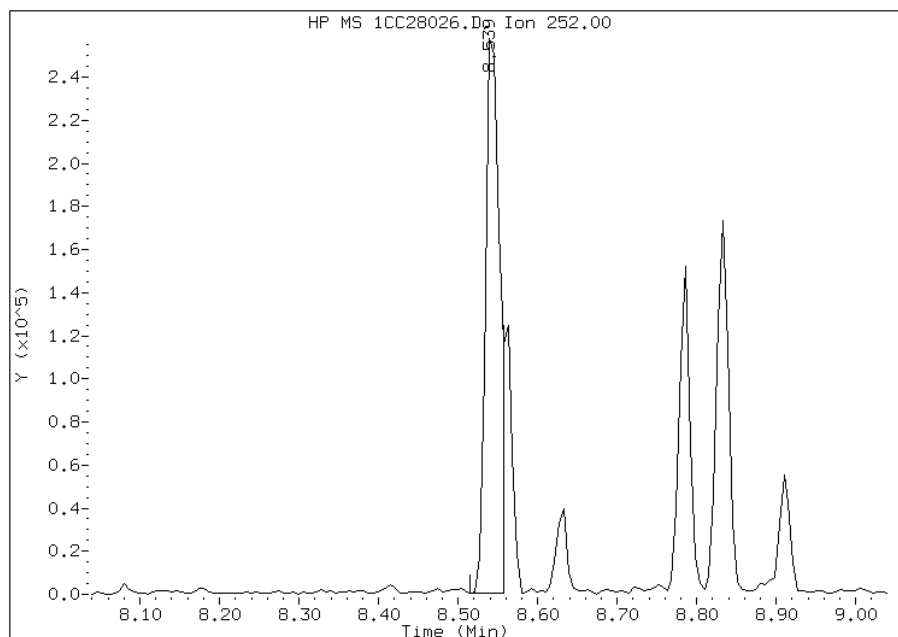
Processing Integration Results

RT: 8.54
Response: 394504
Amount: 12
Conc: 1011



Manual Integration Results

RT: 8.54
Response: 321440
Amount: 10
Conc: 824



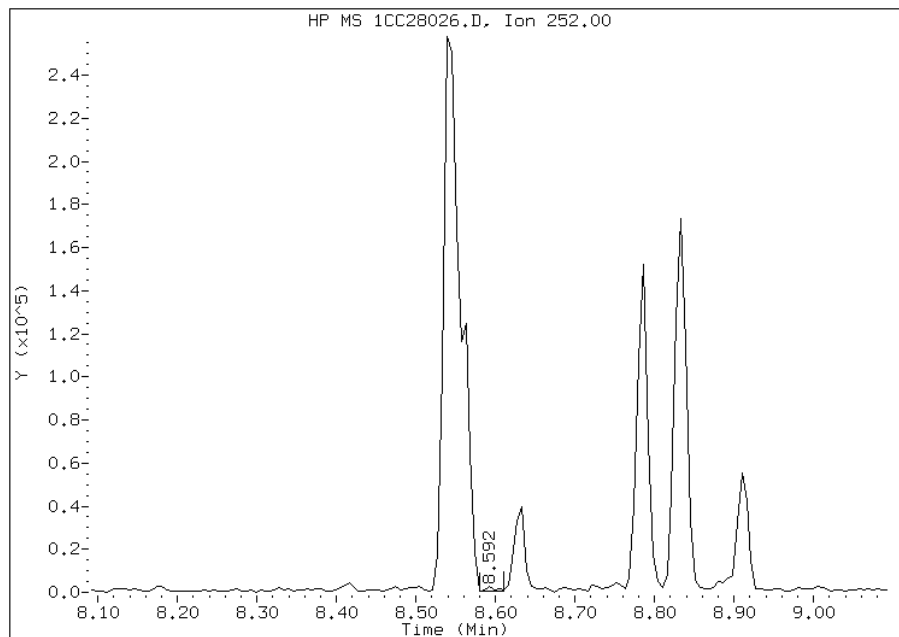
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC28026.D
Inj. Date and Time: 28-MAR-2013 19:03
Instrument ID: BSMC5973.i
Client ID: CV1360Z-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/01/2013

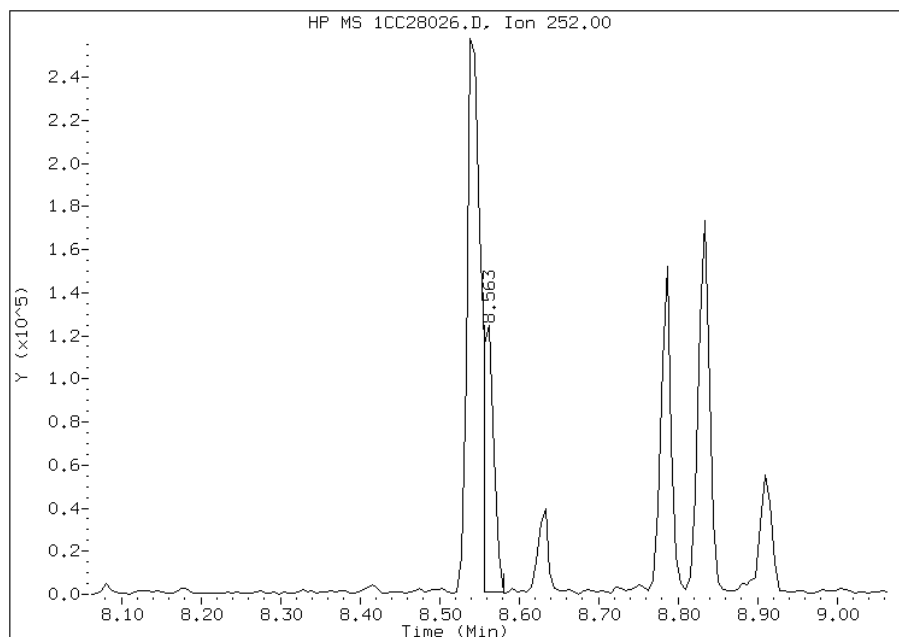
Processing Integration Results

RT: 8.59
Response: 2075
Amount: 0
Conc: 5



Manual Integration Results

RT: 8.56
Response: 112579
Amount: 3
Conc: 281



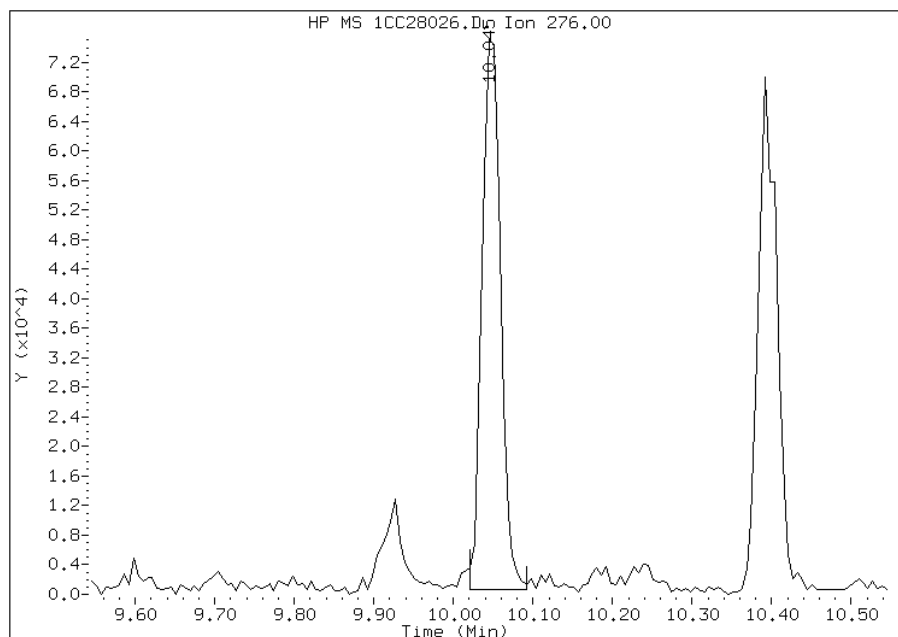
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28026.D
Inj. Date and Time: 28-MAR-2013 19:03
Instrument ID: BSMC5973.i
Client ID: CV1360Z-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

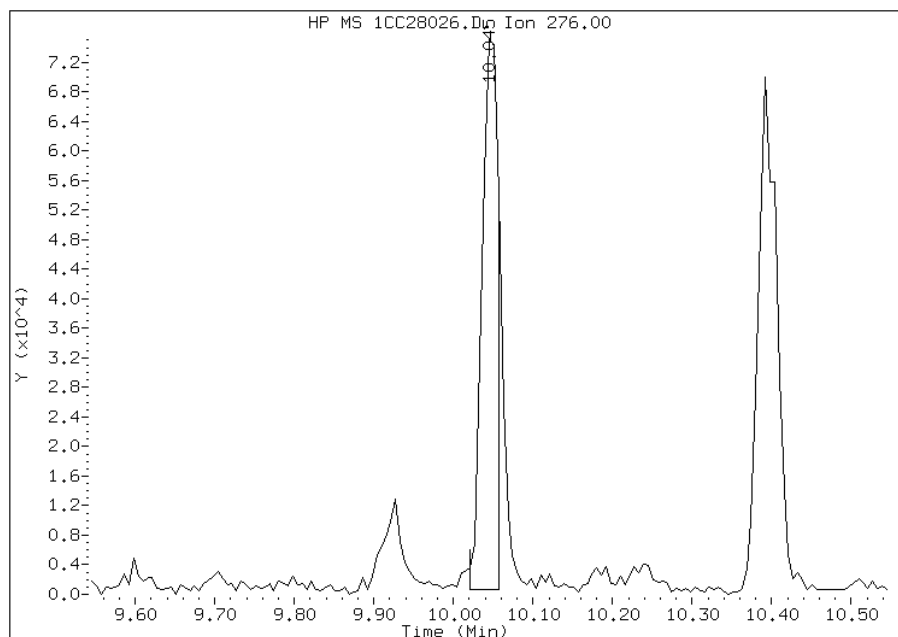
Processing Integration Results

RT: 10.05
Response: 120318
Amount: 4
Conc: 337



Manual Integration Results

RT: 10.05
Response: 104943
Amount: 3
Conc: 294



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1360AA-CS Lab Sample ID: 680-88592-8
 Matrix: Solid Lab File ID: 1CC28027.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 09:50
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.38(g) Date Analyzed: 03/28/2013 19:21
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 20.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	44	J	200	24
120-12-7	Anthracene	37	J	41	21
56-55-3	Benzo[a]anthracene	190		39	19
50-32-8	Benzo[a]pyrene	250		51	25
205-99-2	Benzo[b]fluoranthene	320		60	30
191-24-2	Benzo[g,h,i]perylene	200		98	22
207-08-9	Benzo[k]fluoranthene	180		39	18
218-01-9	Chrysene	260		44	22
53-70-3	Dibenz(a,h)anthracene	78	J	98	20
206-44-0	Fluoranthene	270		98	20
86-73-7	Fluorene	27	J	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	160		98	35
90-12-0	1-Methylnaphthalene	88	J	200	22
91-57-6	2-Methylnaphthalene	120	J	200	35
91-20-3	Naphthalene	64	J	200	22
85-01-8	Phenanthrene	150		39	19
129-00-0	Pyrene	270		98	18

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28027.D
 Lab Smp Id: 680-88592-A-8-A Client Smp ID: CV1360AA-CS
 Inj Date : 28-MAR-2013 19:21
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-8-a
 Misc Info : 680-88592-A-8-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 27
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.380	Weight Extracted
M	20.374	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.721	3.722	(1.000)	725783	40.0000		
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	554388	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.763	(1.000)	1017529	40.0000		
\$ 14 o-Terphenyl	230		6.010	6.010	(1.043)	34338	2.23512	730.0460	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1168615	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1125238	40.0000		
2 Naphthalene	128		3.739	3.733	(1.005)	3726	0.19720	64.4093(Q)	
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	4577	0.36315	118.6130	
4 1-Methylnaphthalene	142		4.221	4.222	(1.134)	3080	0.26832	87.6391	
5 Acenaphthylene	152		4.727	4.722	(0.983)	3020	0.13512	44.1322(Q)	
9 Fluorene	166		5.151	5.151	(1.071)	1431	0.08145	26.6028	
11 Phenanthrene	178		5.774	5.774	(1.002)	13323	0.45282	147.9017	
12 Anthracene	178		5.810	5.810	(1.008)	3279	0.11395	37.2200	
13 Carbazole	167		5.915	5.921	(1.027)	2916	0.11400	37.2353	

Compounds	QUANT SIG							CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
-----	----		-----	-----	-----	-----	-----	-----	
15 Fluoranthene	202		6.610	6.616	(1.147)	26537	0.82359	269.0053	
16 Pyrene	202		6.780	6.780	(0.880)	26391	0.84035	274.4789	
17 Benzo(a)anthracene	228		7.692	7.698	(0.998)	19650	0.58259	190.2898	
19 Chrysene	228		7.721	7.721	(1.002)	26682	0.79049	258.1935	
20 Benzo(b)fluoranthene	252		8.539	8.539	(0.961)	29076	0.98876	322.9527	
21 Benzo(k)fluoranthene	252		8.556	8.562	(0.963)	16227	0.53791	175.6956	
22 Benzo(a)pyrene	252		8.827	8.827	(0.993)	21988	0.76979	251.4342	
24 Indeno(1,2,3-cd)pyrene	276		10.033	10.045	(1.129)	13377	0.49784	162.6067(M)	
25 Dibenzo(a,h)anthracene	278		10.056	10.062	(1.132)	6245	0.23761	77.6087(M)	
26 Benzo(g,h,i)perylene	276		10.386	10.398	(1.169)	17260	0.61405	200.5644	

QC Flag Legend

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

Data File: 1CC28027.D

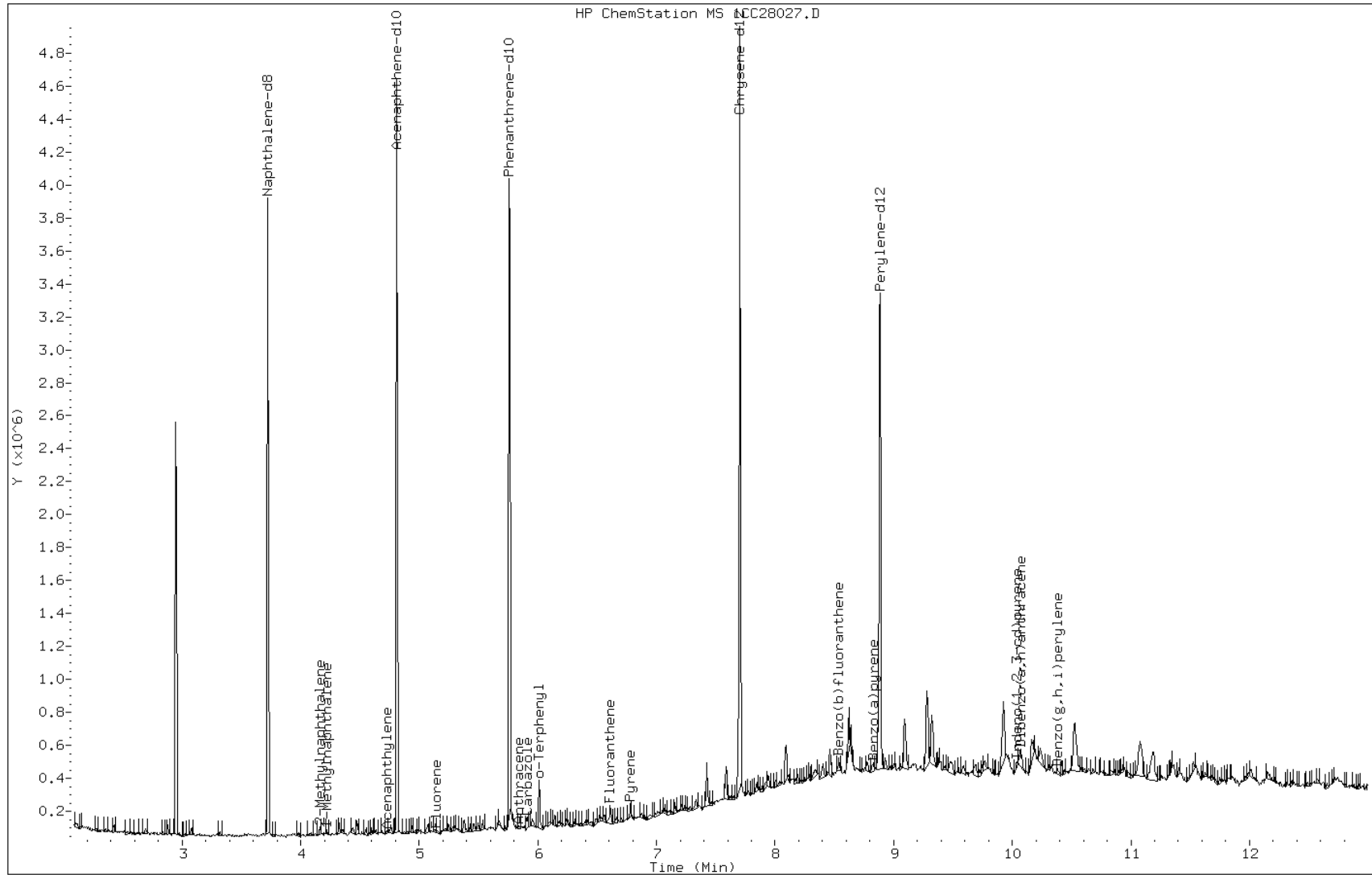
Date: 28-MAR-2013 19:21

Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

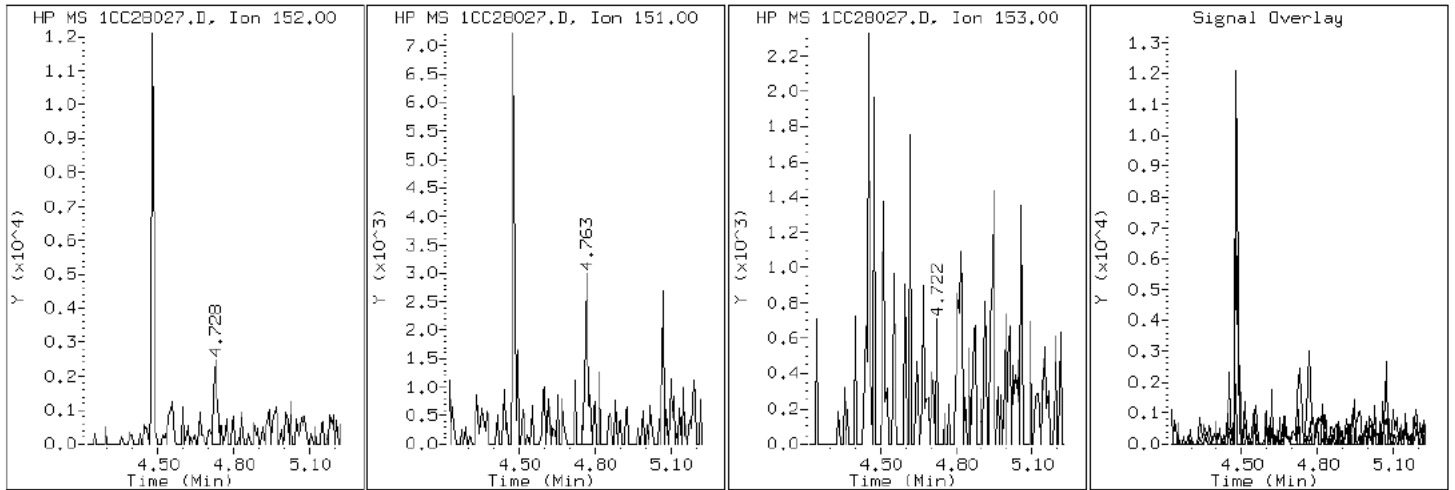
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

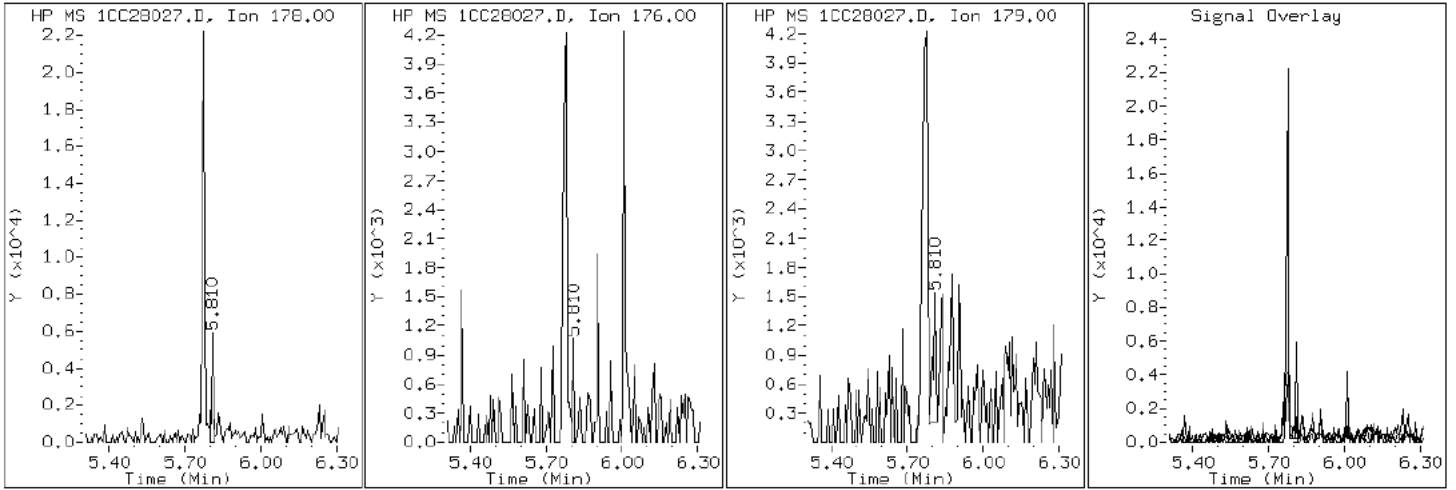
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

12 Anthracene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

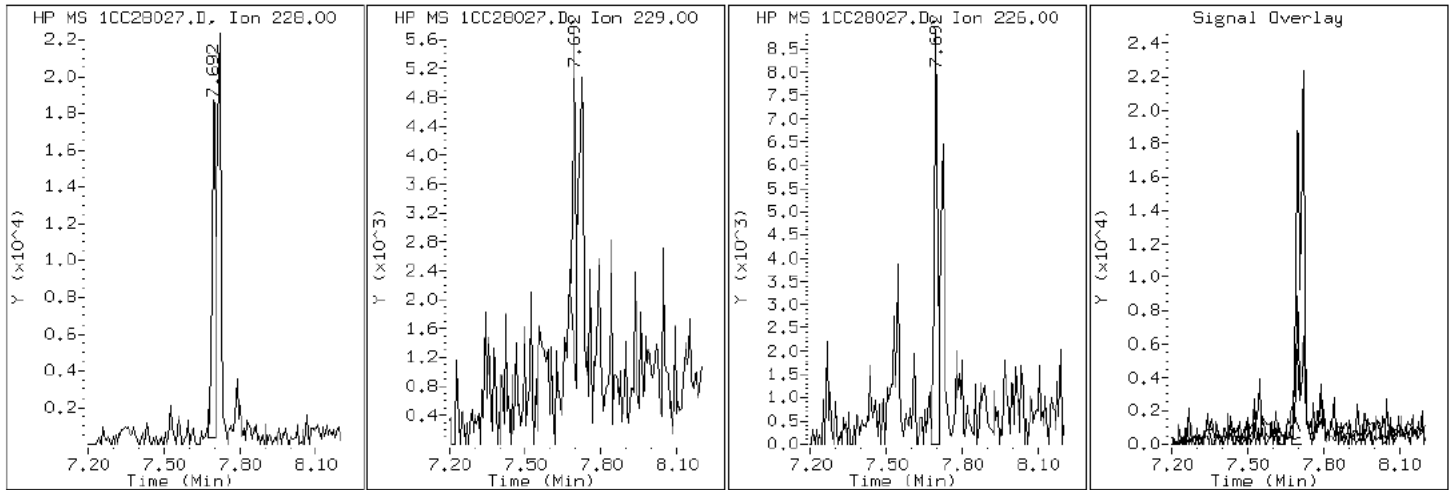
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

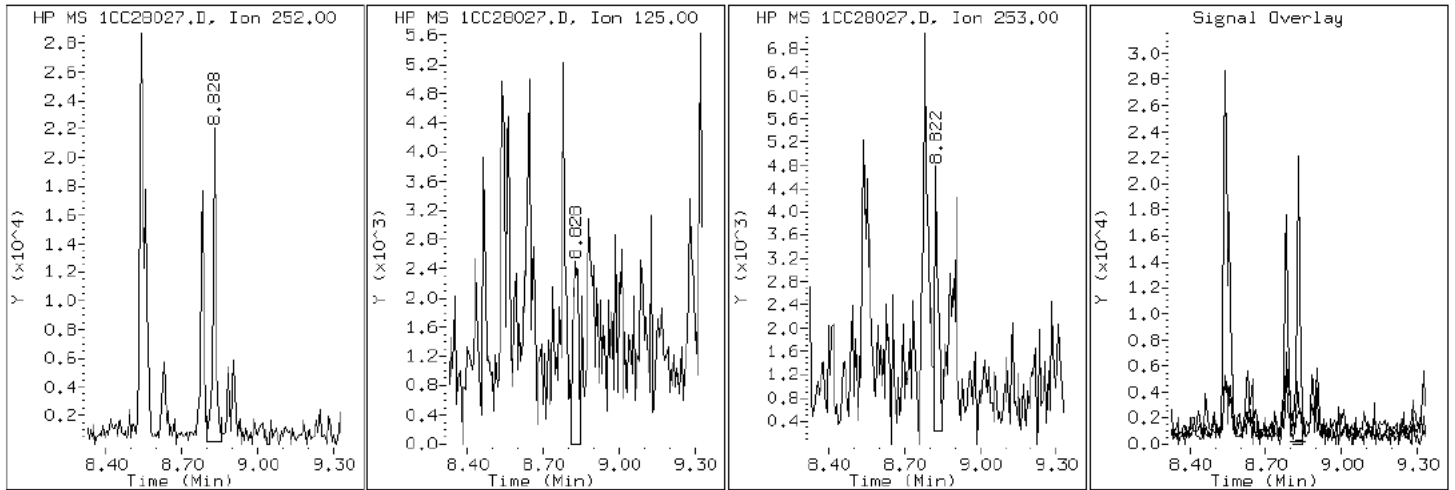
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

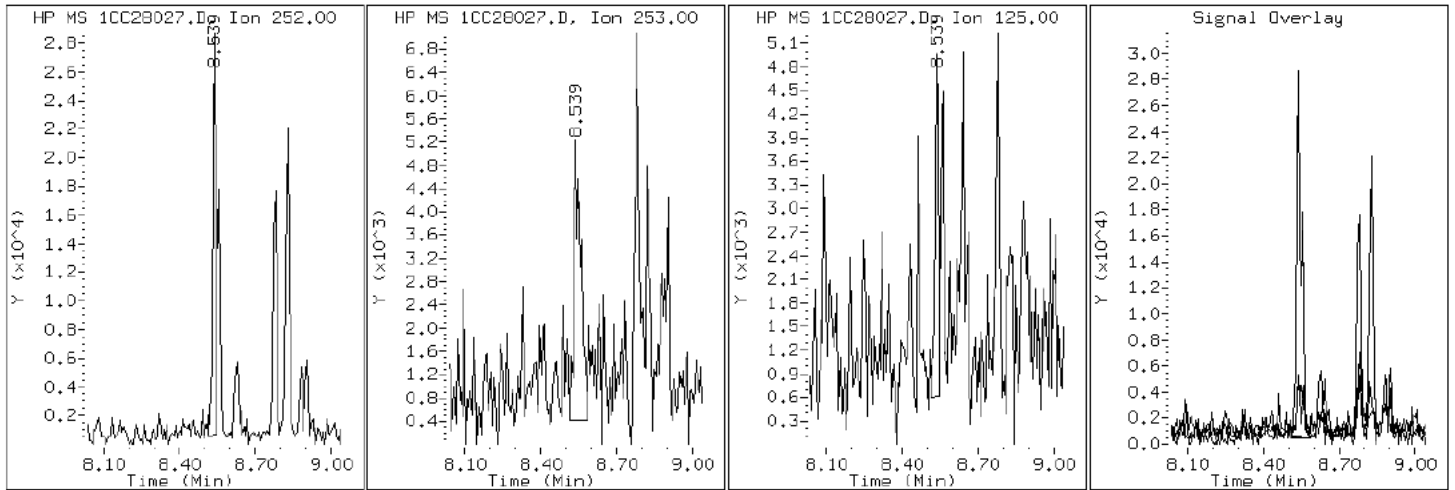
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

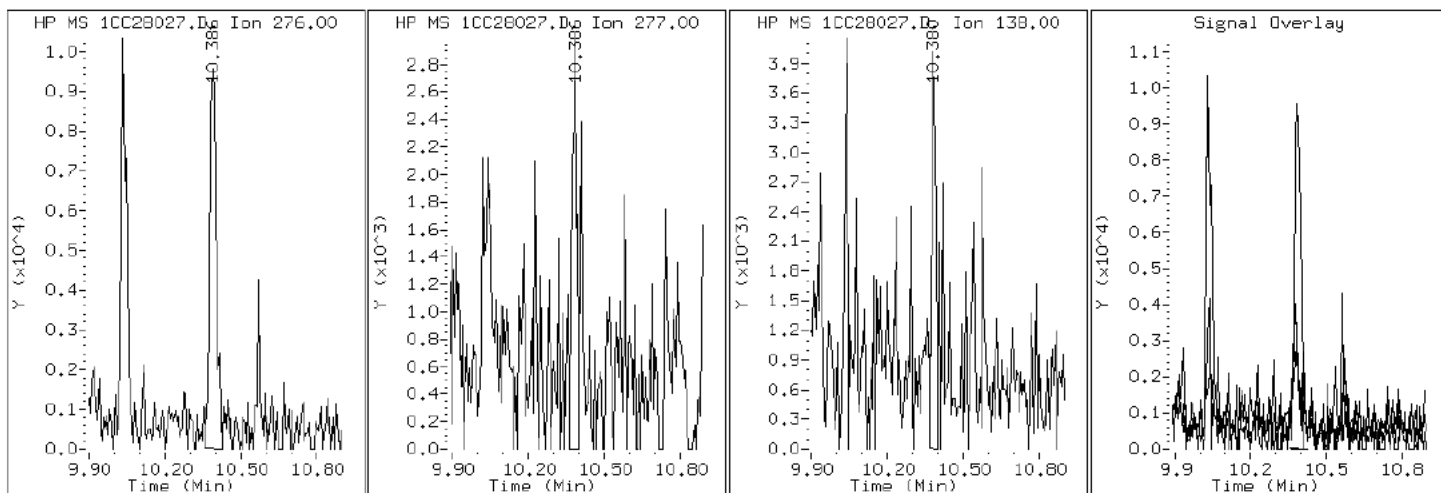
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

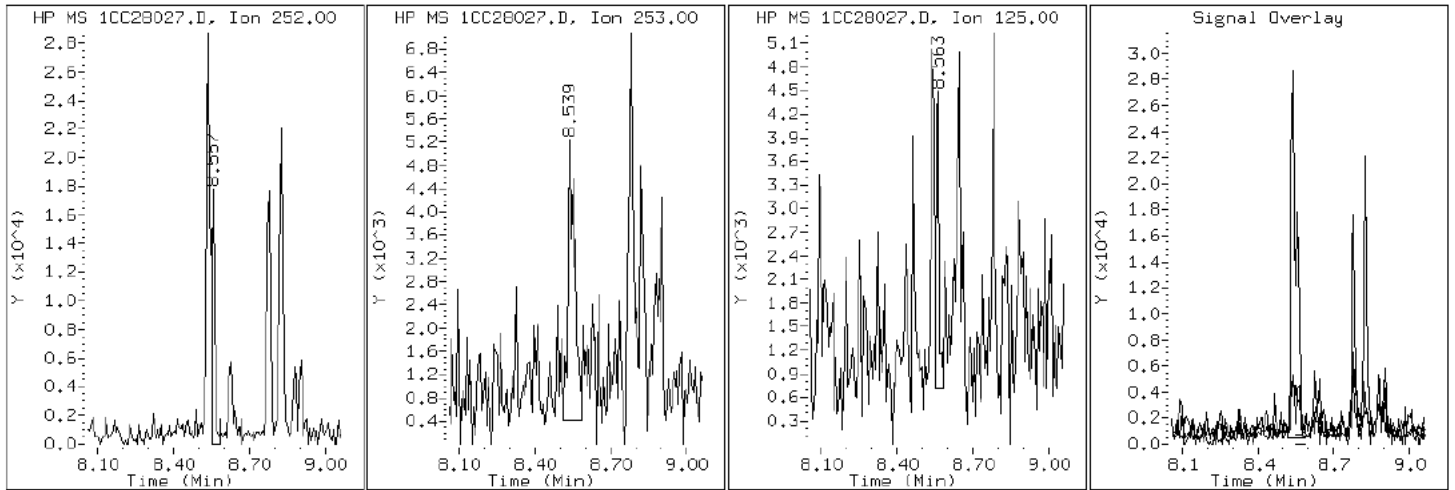
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

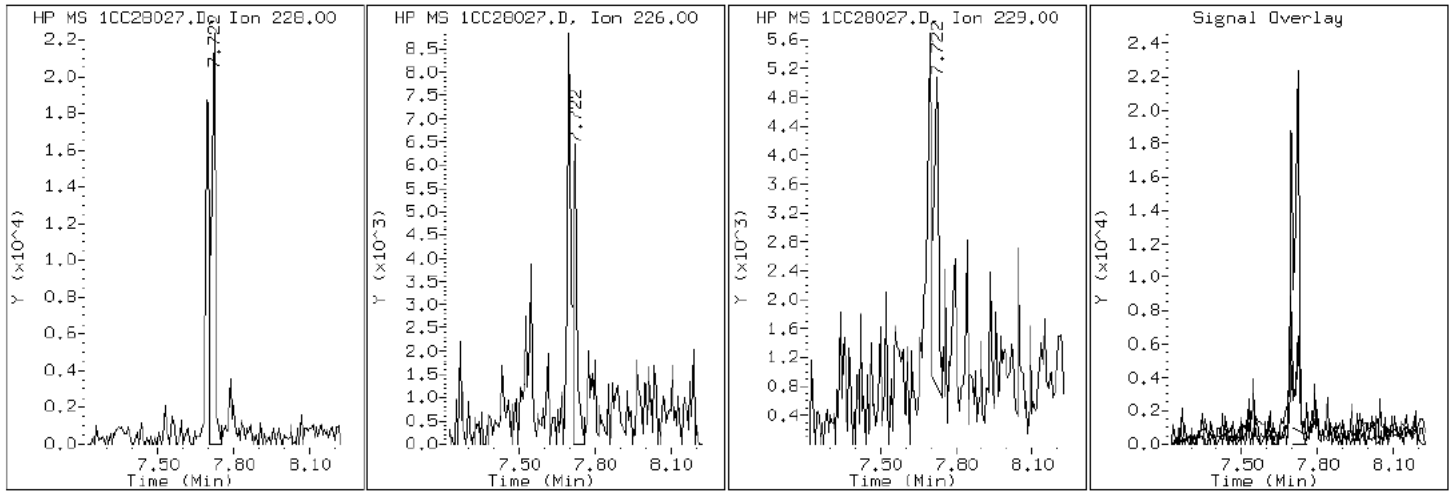
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

19 Chrysene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

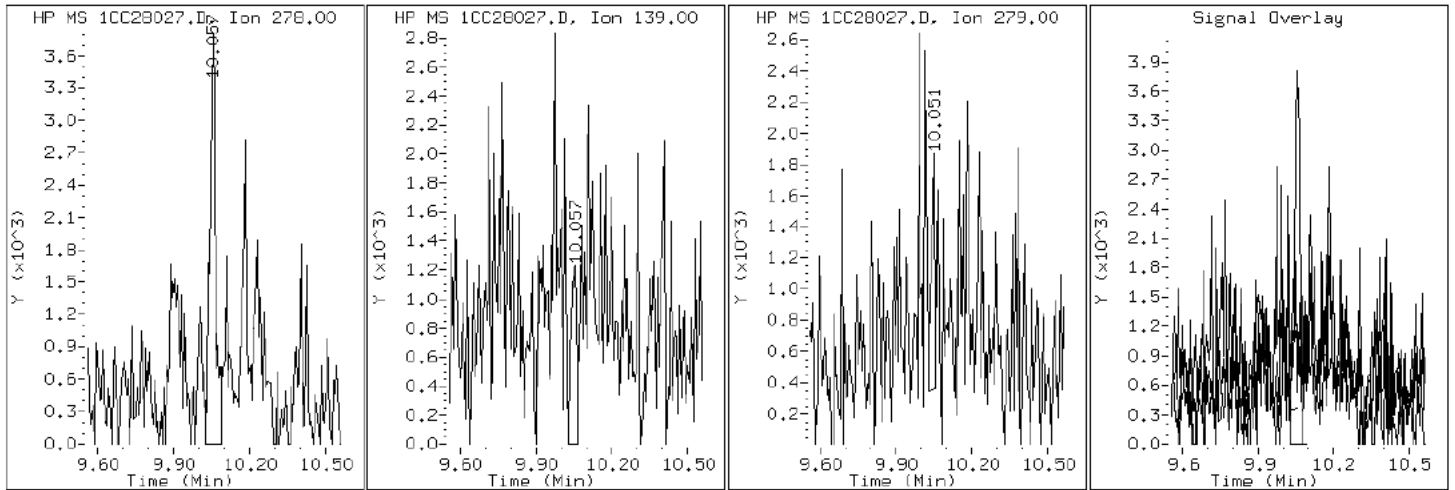
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

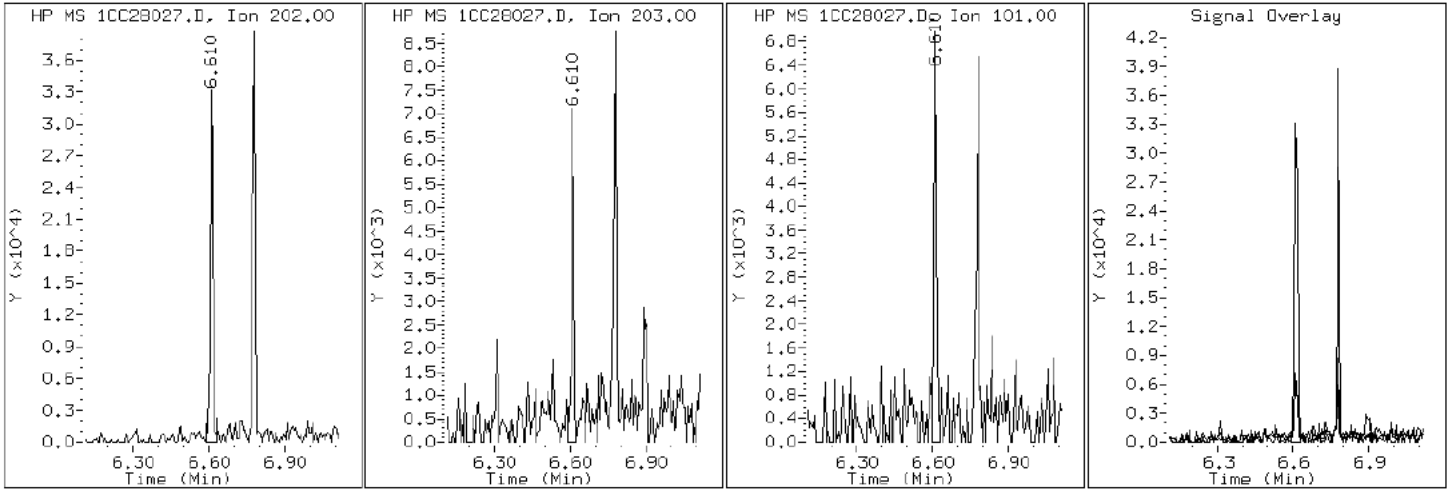
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

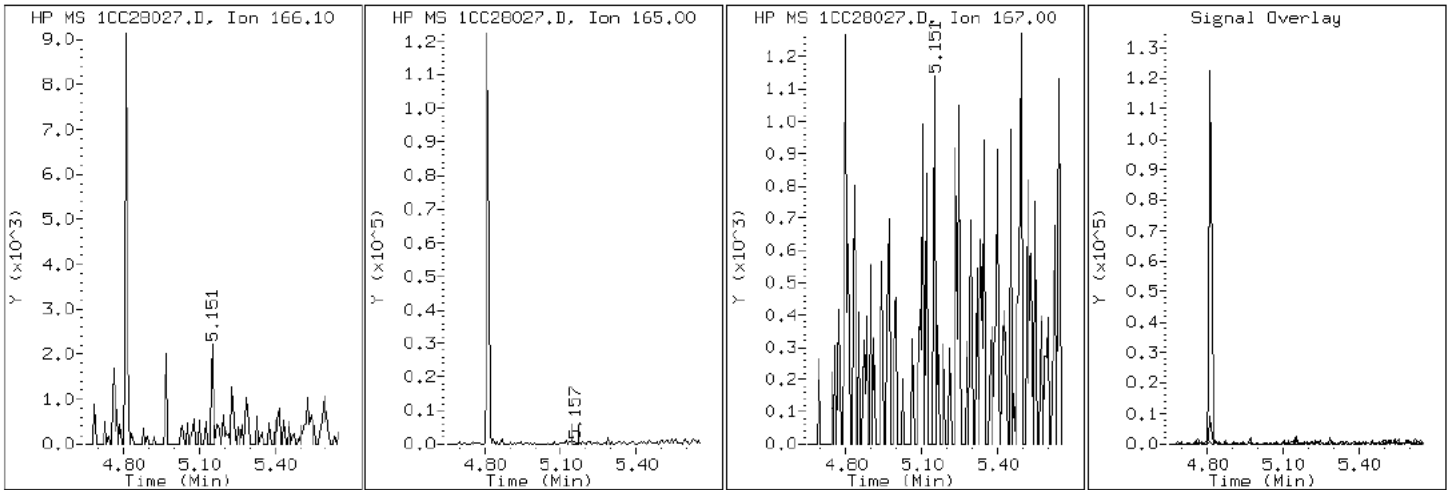
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

9 Fluorene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

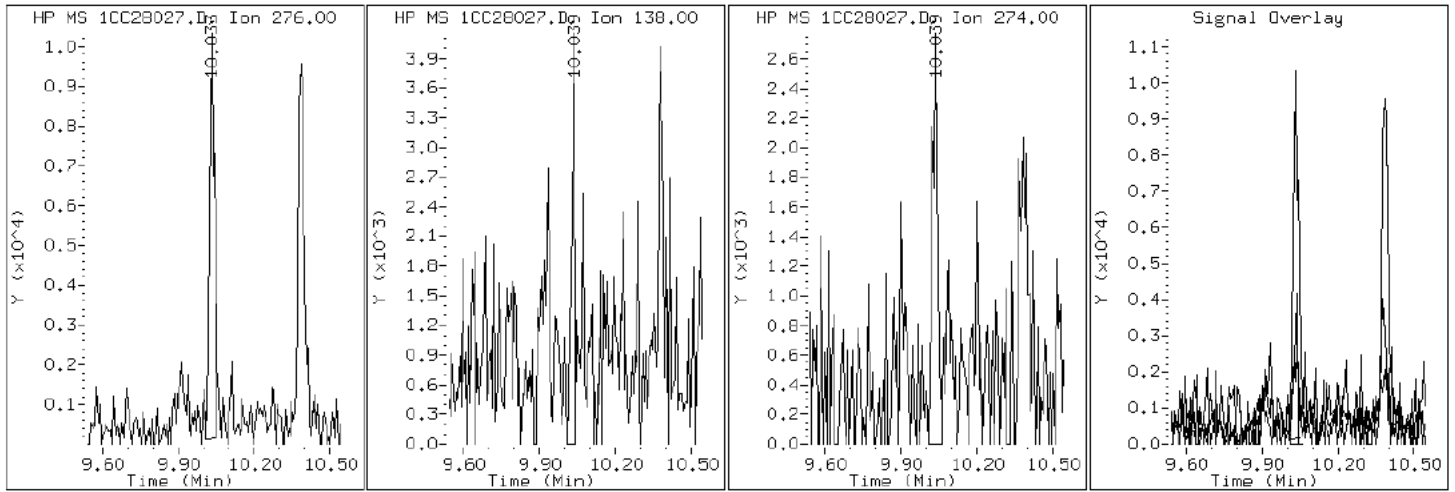
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

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



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

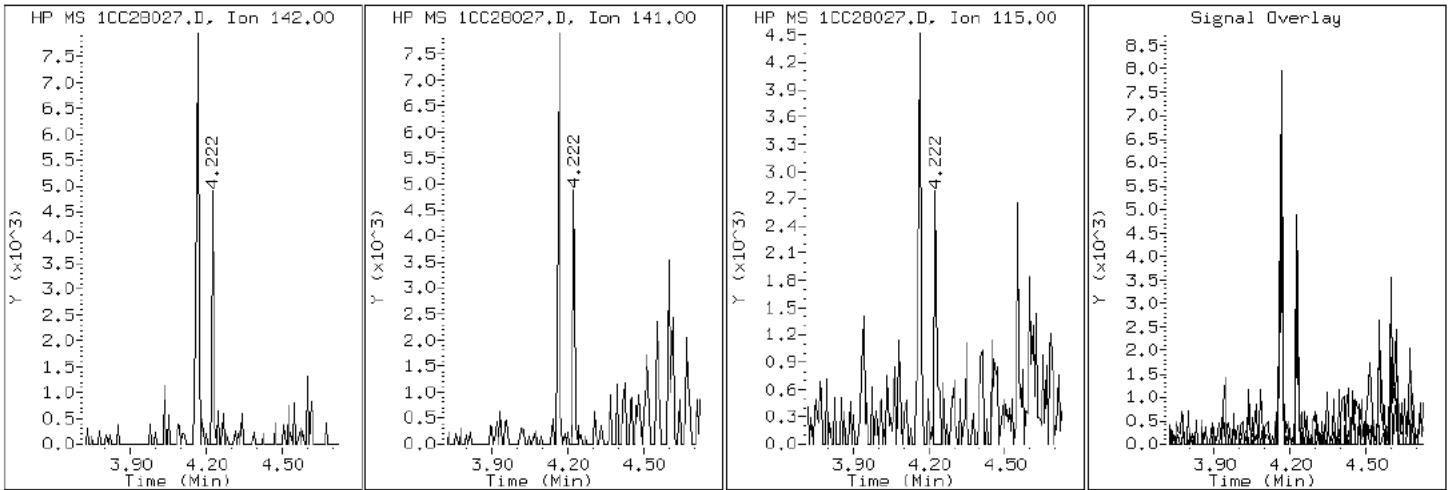
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

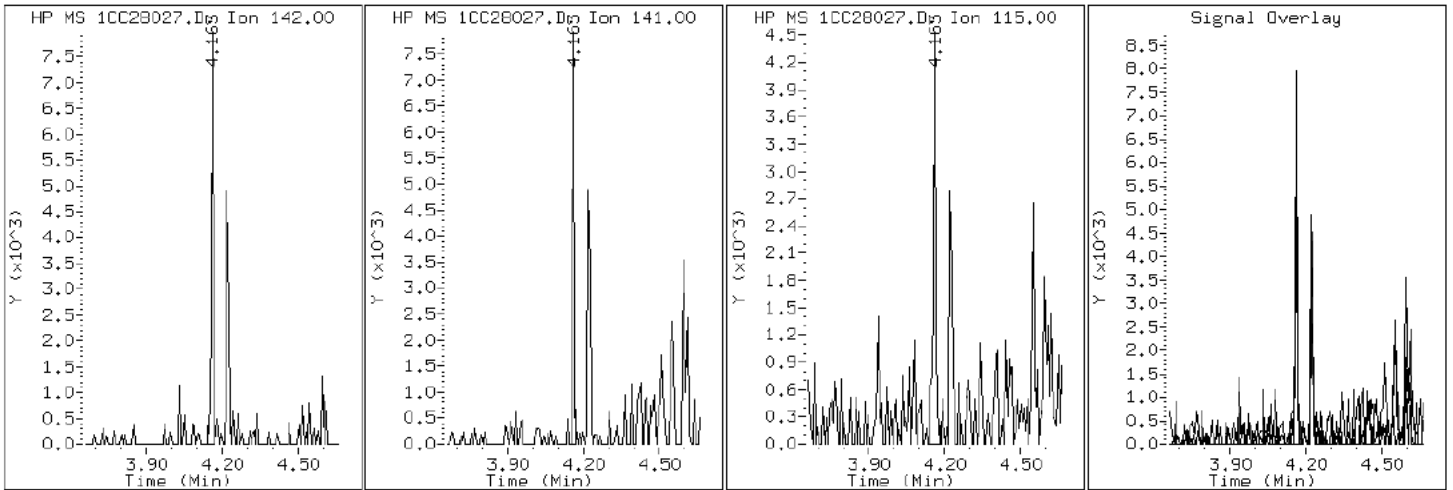
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

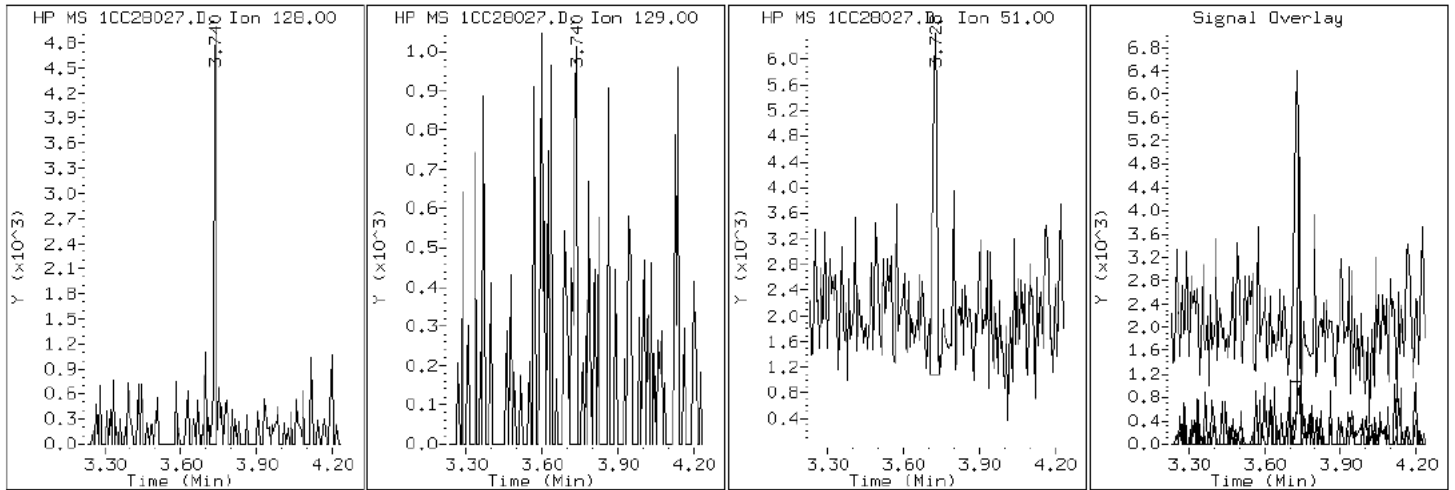
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

2 Naphthalene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

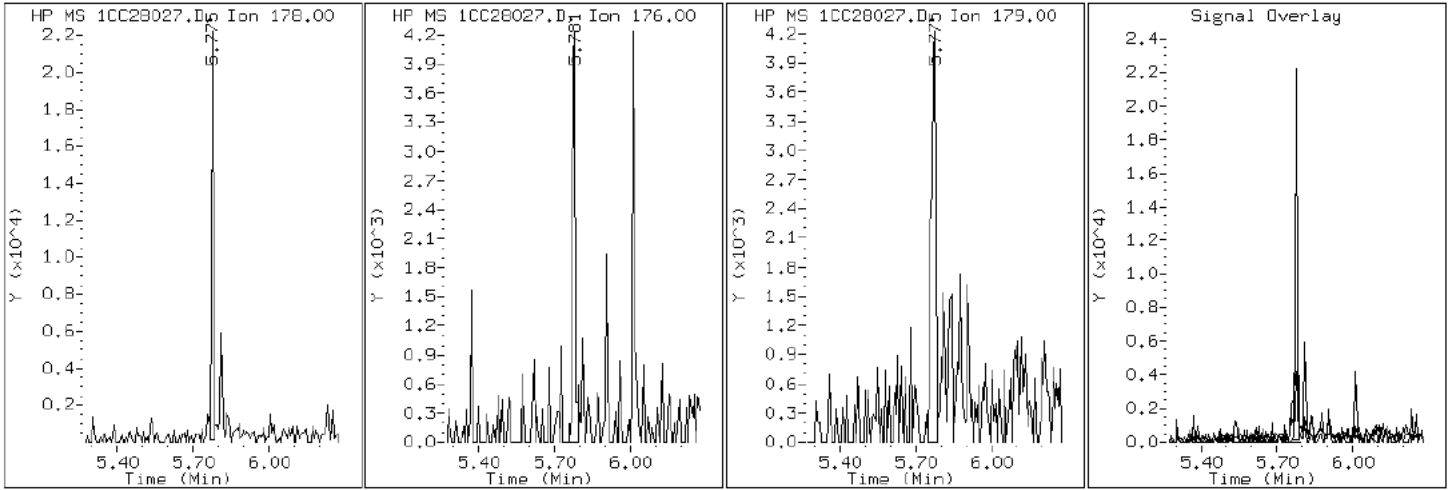
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28027.D

Date: 28-MAR-2013 19:21

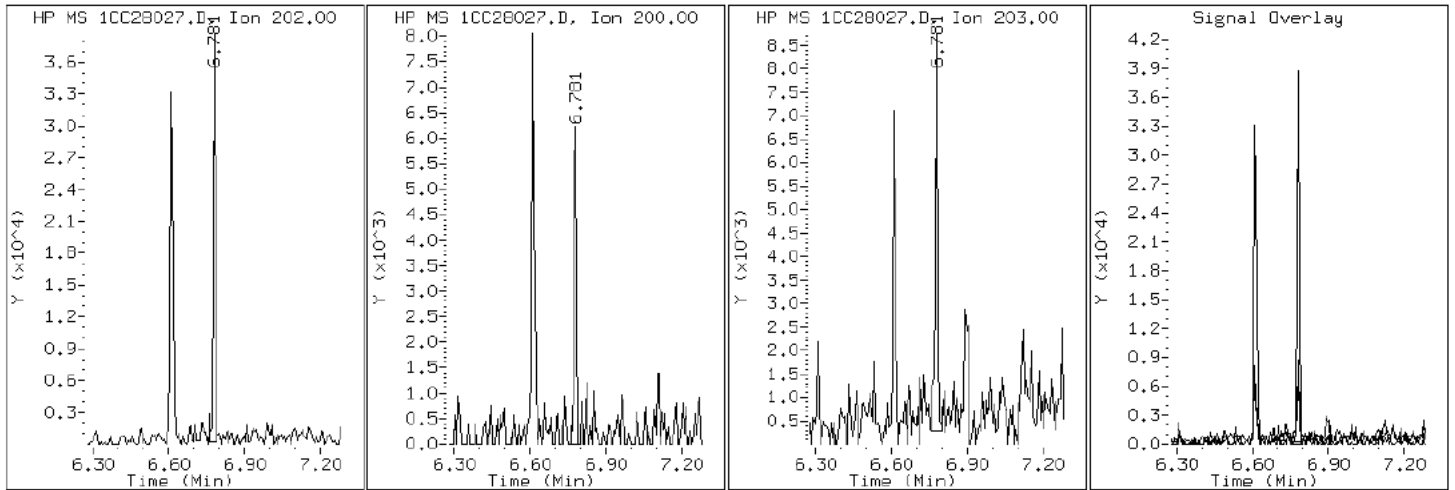
Client ID: CV1360AA-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-8-a

Operator: SCC

16 Pyrene

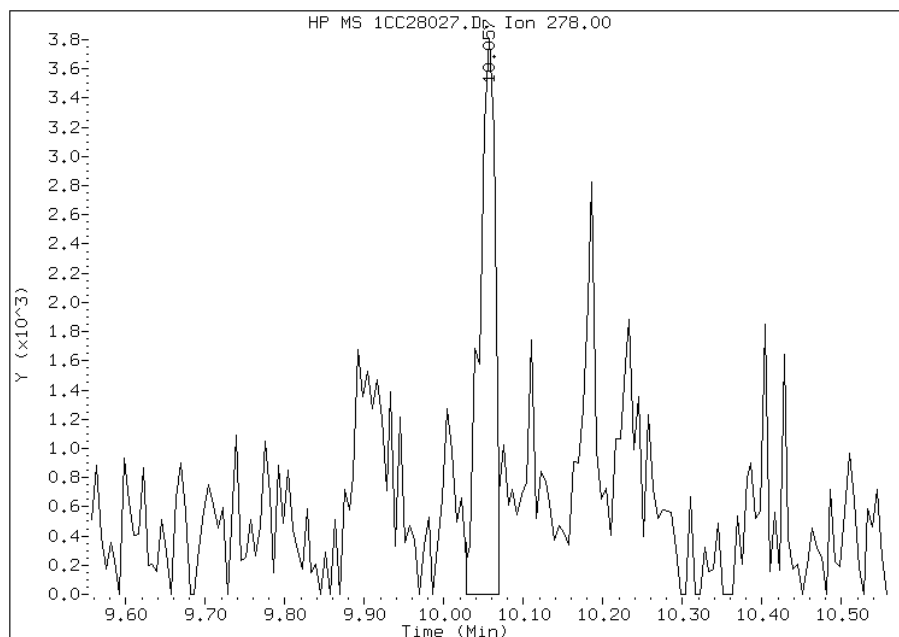


Manual Integration Report

Data File: 1CC28027.D
Inj. Date and Time: 28-MAR-2013 19:21
Instrument ID: BSMC5973.i
Client ID: CV1360AA-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/01/2013

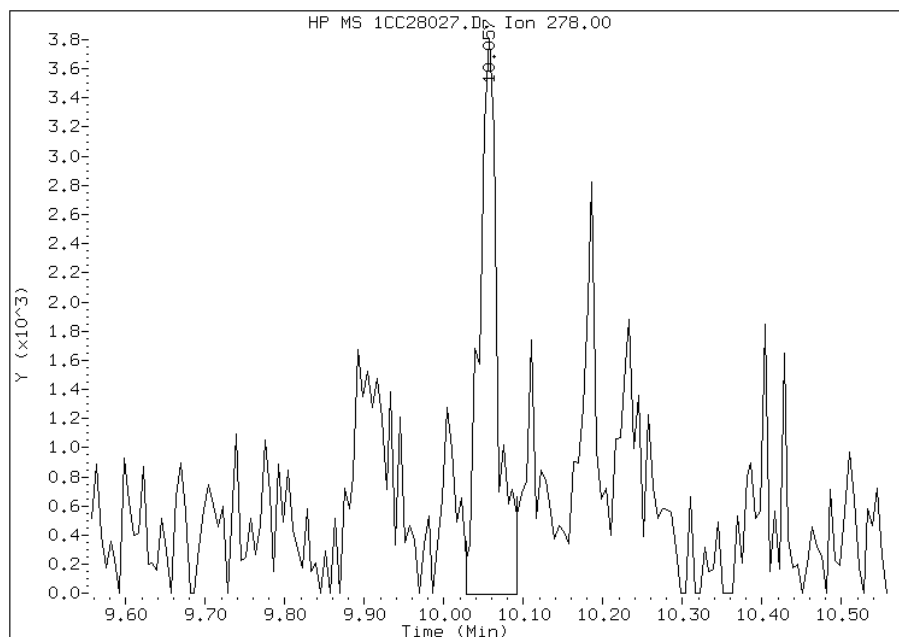
Processing Integration Results

RT: 10.06
Response: 5199
Amount: 0
Conc: 65



Manual Integration Results

RT: 10.06
Response: 6245
Amount: 0
Conc: 78



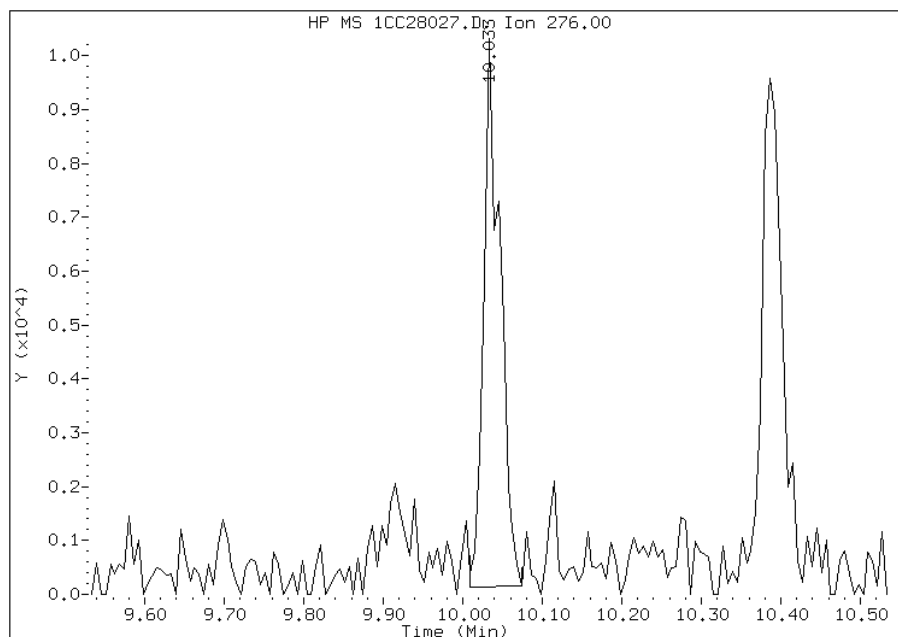
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28027.D
Inj. Date and Time: 28-MAR-2013 19:21
Instrument ID: BSMC5973.i
Client ID: CV1360AA-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

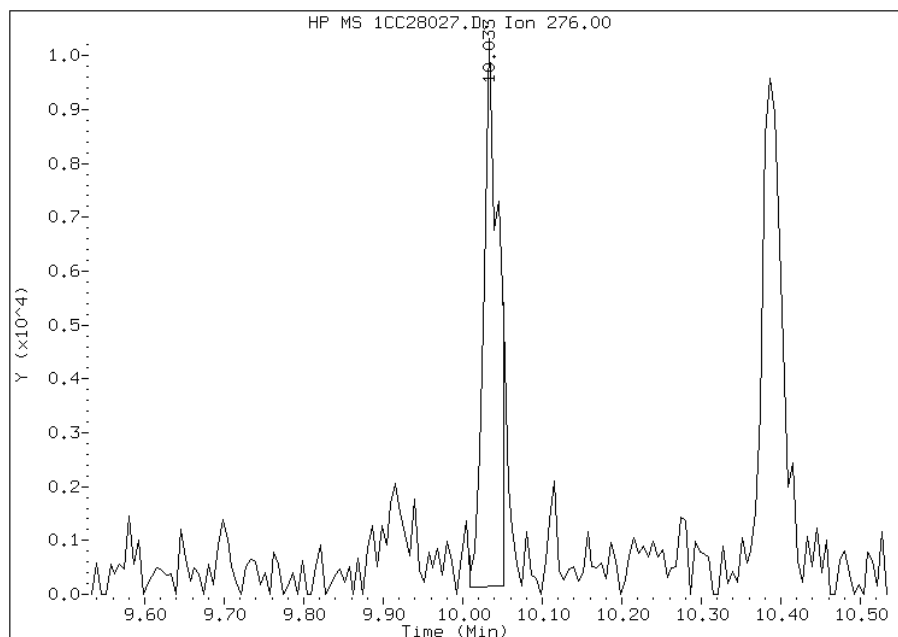
Processing Integration Results

RT: 10.03
Response: 14543
Amount: 1
Conc: 177



Manual Integration Results

RT: 10.03
Response: 13377
Amount: 0
Conc: 163



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:41
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1360BB-CS Lab Sample ID: 680-88592-9
 Matrix: Solid Lab File ID: 1CC28028.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 09:45
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.08(g) Date Analyzed: 03/28/2013 19:39
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 30.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	570	U	570	110
208-96-8	Acenaphthylene	100	J	230	29
120-12-7	Anthracene	98		48	24
56-55-3	Benzo[a]anthracene	490		46	22
50-32-8	Benzo[a]pyrene	670		60	30
205-99-2	Benzo[b]fluoranthene	960		70	35
191-24-2	Benzo[g,h,i]perylene	580		110	25
207-08-9	Benzo[k]fluoranthene	360		46	21
218-01-9	Chrysene	660		52	26
53-70-3	Dibenz(a,h)anthracene	140		110	23
206-44-0	Fluoranthene	1000		110	23
86-73-7	Fluorene	36	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	520		110	41
90-12-0	1-Methylnaphthalene	62	J	230	25
91-57-6	2-Methylnaphthalene	70	J	230	41
91-20-3	Naphthalene	120	J	230	25
85-01-8	Phenanthrene	670		46	22
129-00-0	Pyrene	1100		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	98		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28028.D
 Lab Smp Id: 680-88592-A-9-A Client Smp ID: CV1360BB-CS
 Inj Date : 28-MAR-2013 19:39
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-9-a
 Misc Info : 680-88592-A-9-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 28
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.080	Weight Extracted
M	30.512	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.721	3.722	(1.000)	803421	40.0000		
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	626537	40.0000		
* 10 Phenanthrene-d10	188		5.762	5.763	(1.000)	1112510	40.0000		
\$ 14 o-Terphenyl	230		6.009	6.010	(1.043)	41210	2.45341	936.5288	
* 18 Chrysene-d12	240		7.703	7.704	(1.000)	1212386	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1188794	40.0000		
2 Naphthalene	128		3.733	3.733	(1.003)	6554	0.31335	119.6124(Q)	
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	2560	0.18349	70.0415(Q)	
4 1-Methylnaphthalene	142		4.227	4.222	(1.136)	2057	0.16188	61.7939(Q)	
5 Acenaphthylene	152		4.727	4.722	(0.983)	6913	0.27367	104.4680	
9 Fluorene	166		5.151	5.151	(1.071)	1897	0.09554	36.4689(Q)	
11 Phenanthrene	178		5.774	5.774	(1.002)	56878	1.76811	674.9301	
12 Anthracene	178		5.809	5.810	(1.008)	8118	0.25803	98.4980	
13 Carbazole	167		5.915	5.921	(1.027)	8020	0.28677	109.4674	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.609	6.616	(1.147)	96751	2.74636	1048.3539
16 Pyrene	202	6.780	6.780	(0.880)	89813	2.75660	1052.2609
17 Benzo(a)anthracene	228	7.692	7.698	(0.998)	44677	1.27678	487.3804
19 Chrysene	228	7.721	7.721	(1.002)	60321	1.72257	657.5465
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	78164	2.51593	960.3938(M)
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.963)	30218	0.94815	361.9317(QMH)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	52851	1.75138	668.5441
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	38589	1.35935	518.8974(M)
25 Dibenzo(a,h)anthracene	278	10.062	10.062	(1.132)	9878	0.35574	135.7956(M)
26 Benzo(g,h,i)perylene	276	10.392	10.398	(1.169)	45309	1.52576	582.4194(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: 1CC28028.D

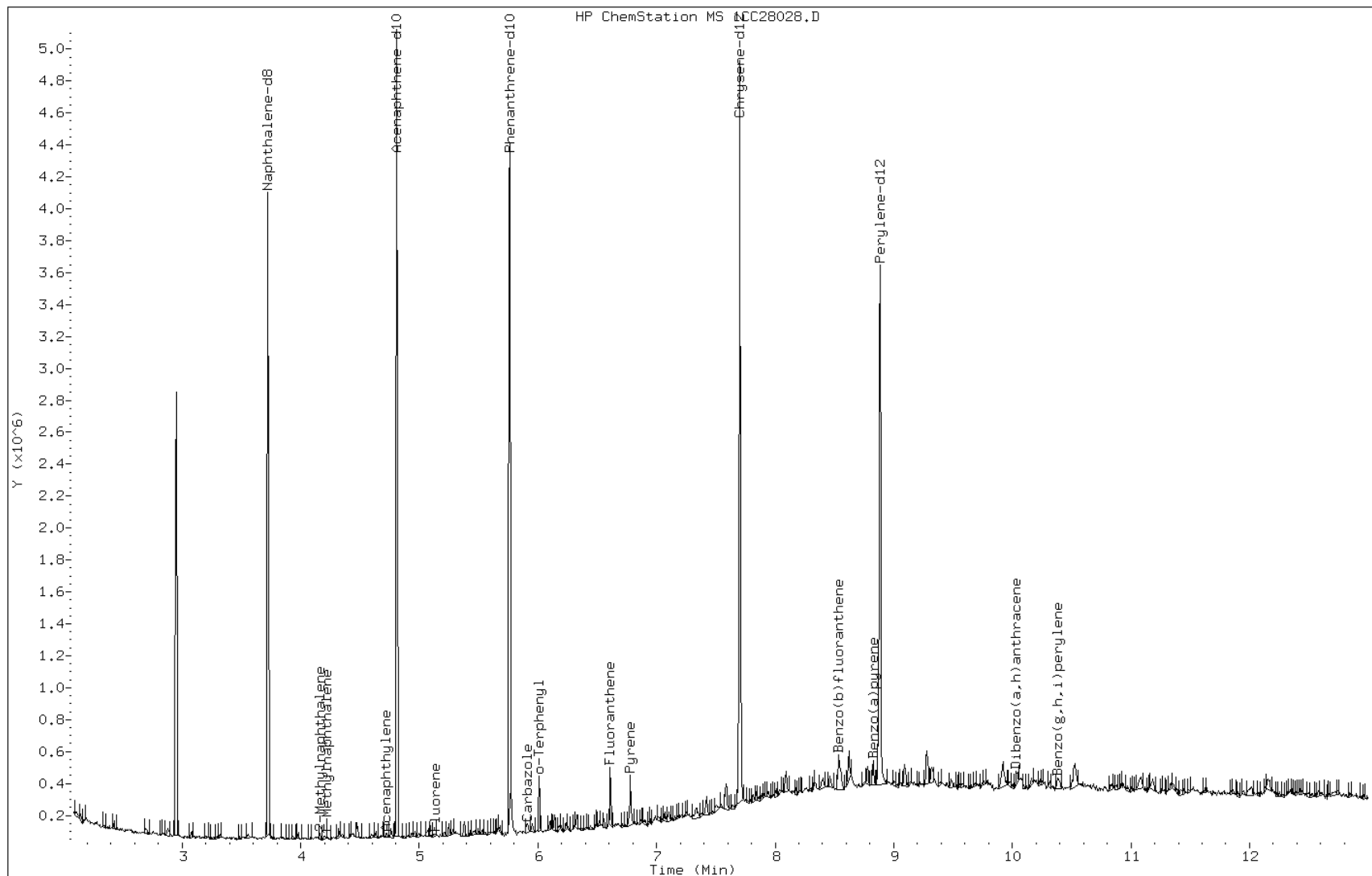
Date: 28-MAR-2013 19:39

Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

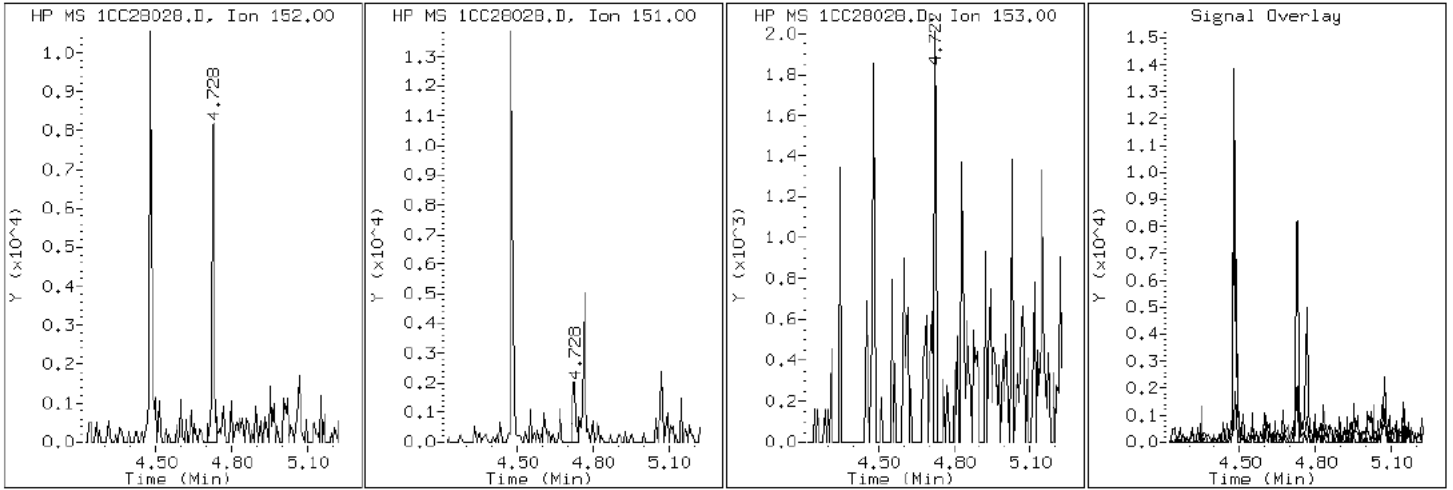
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

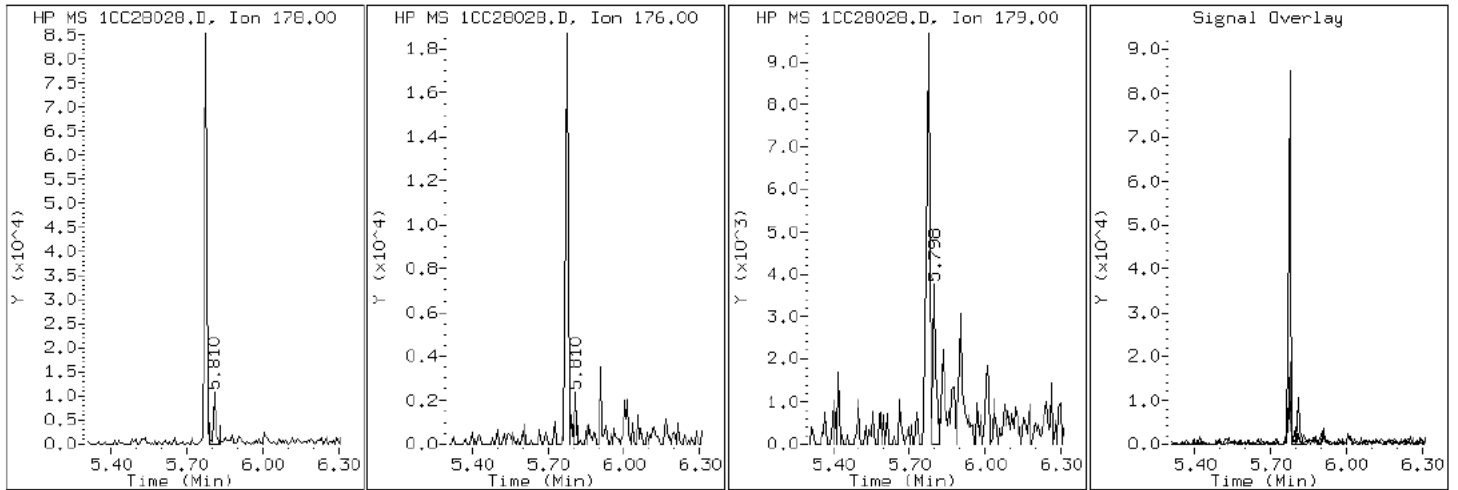
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

12 Anthracene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

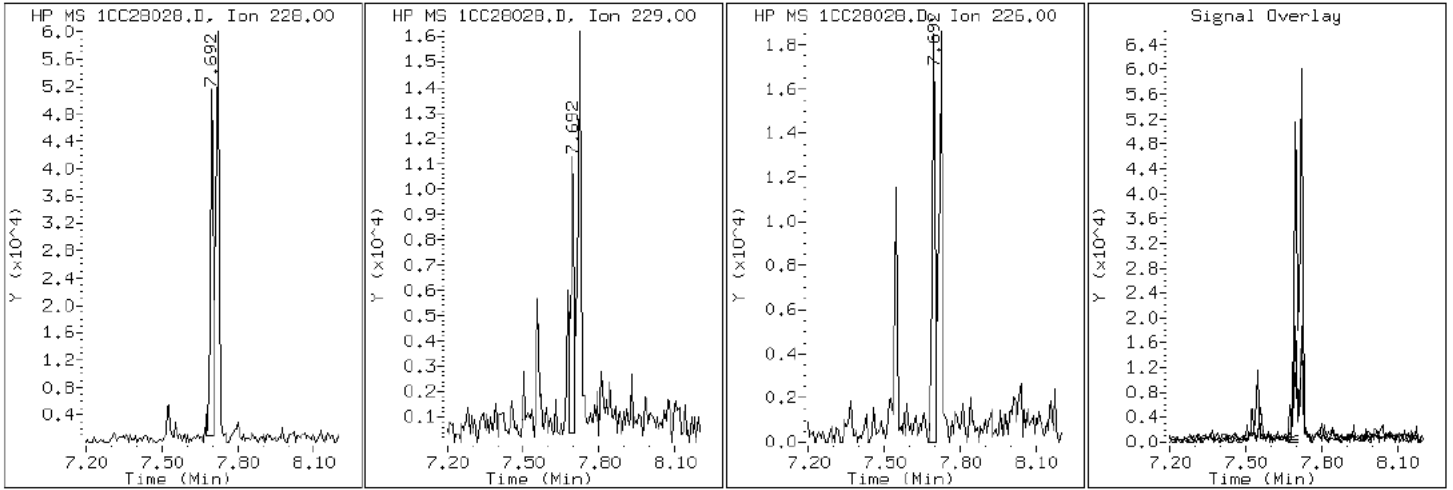
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

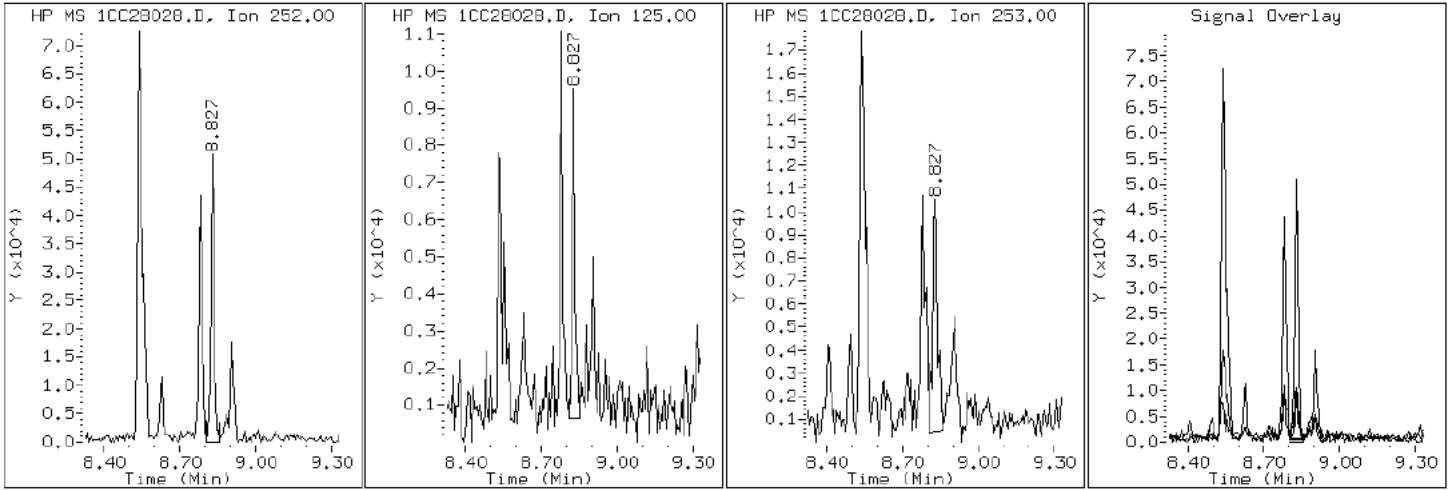
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

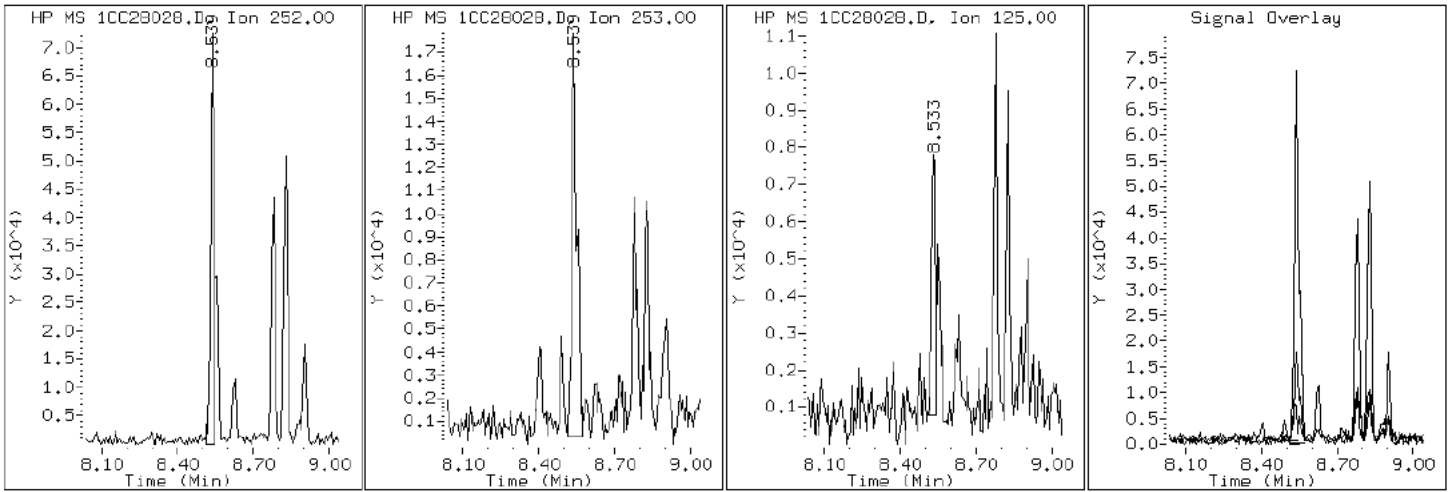
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

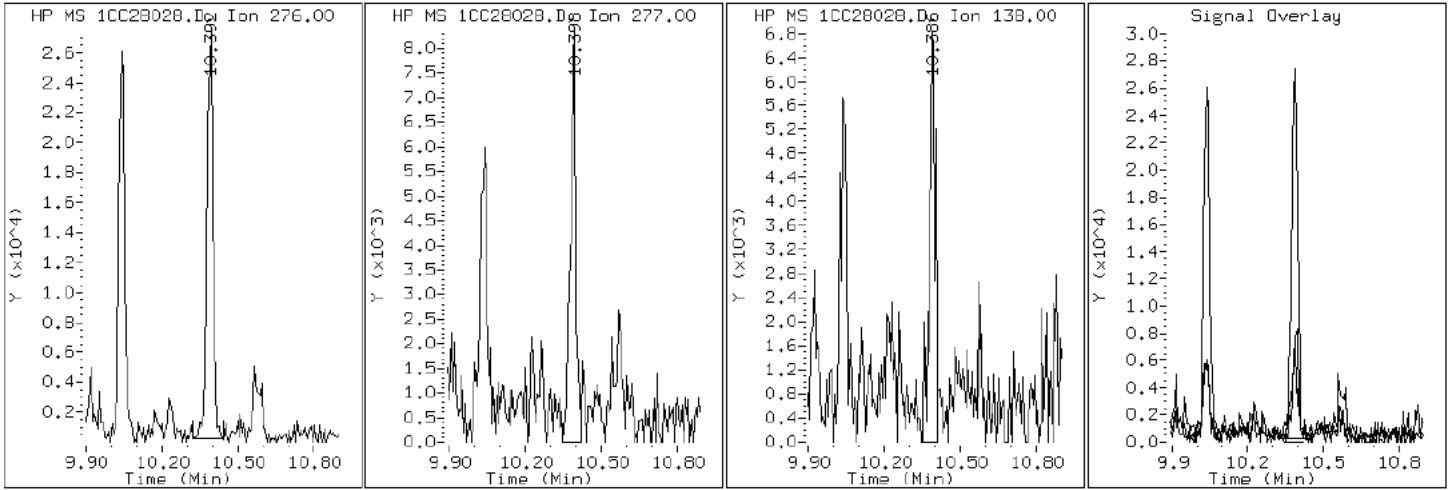
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

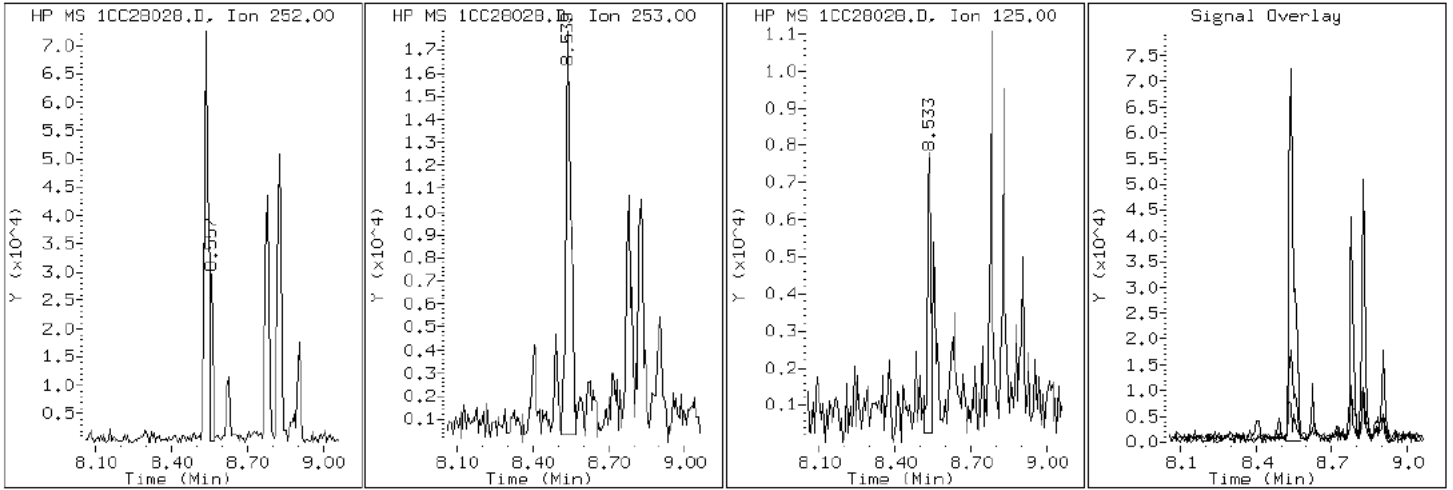
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

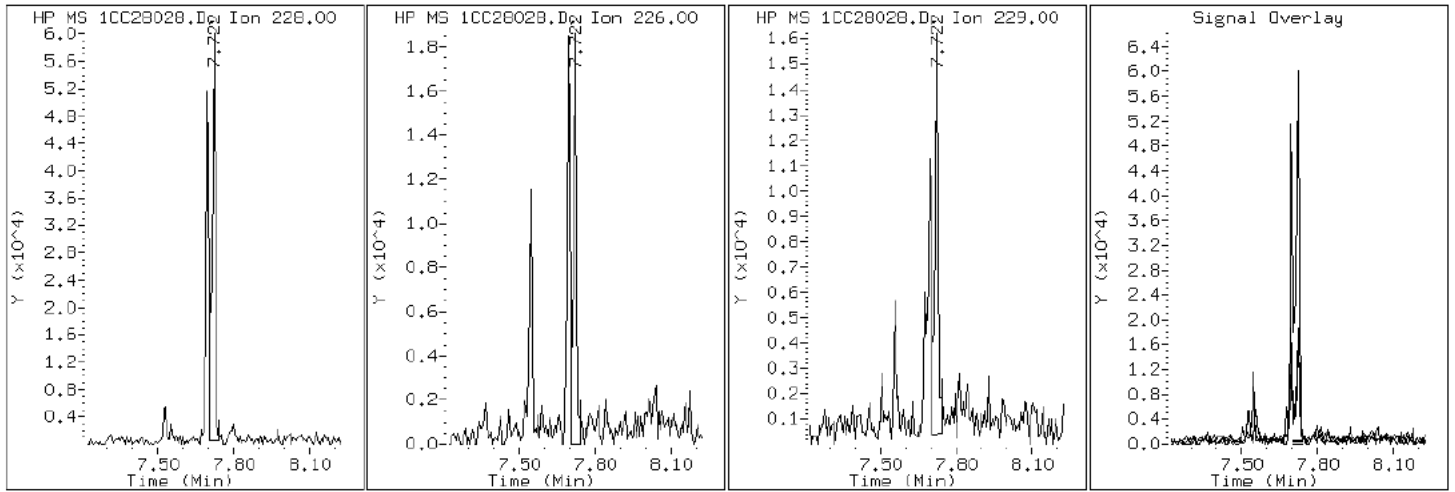
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

19 Chrysene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

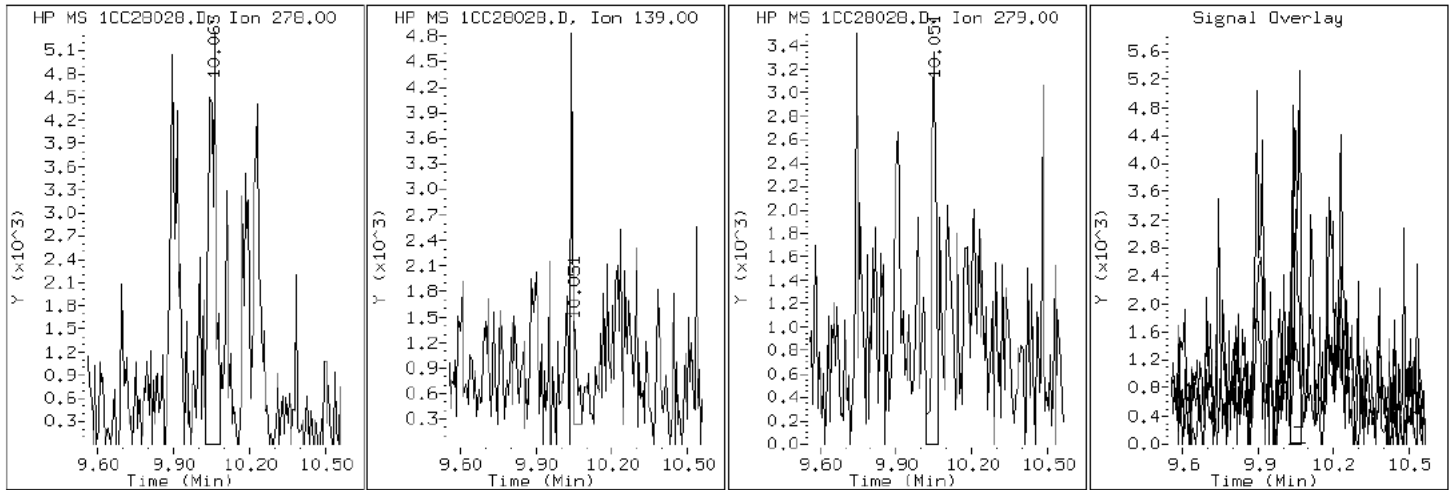
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

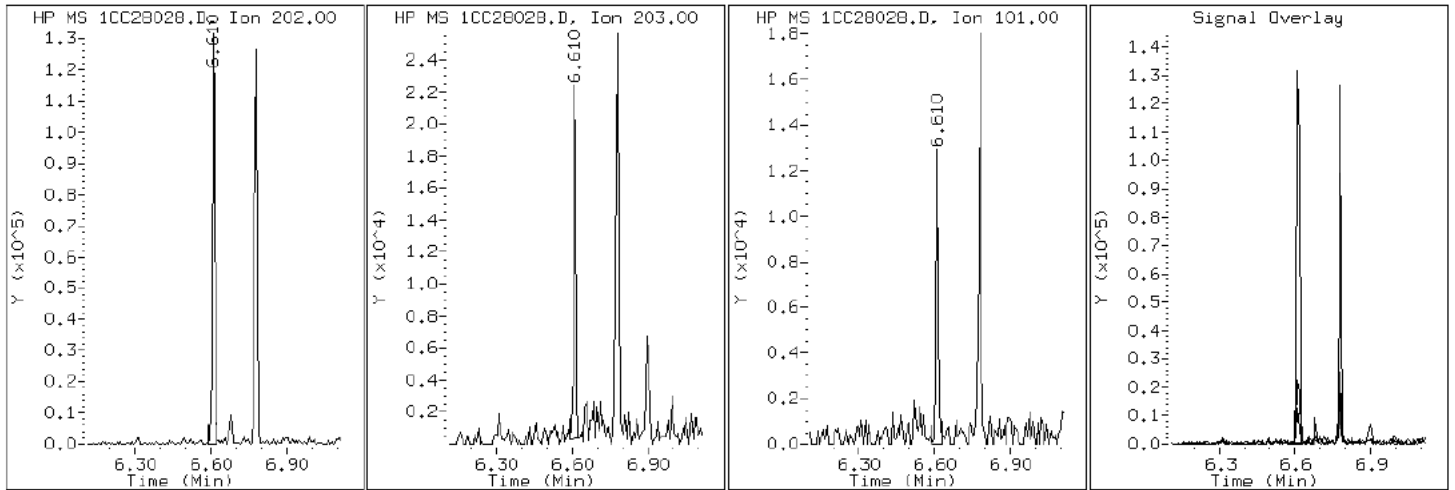
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

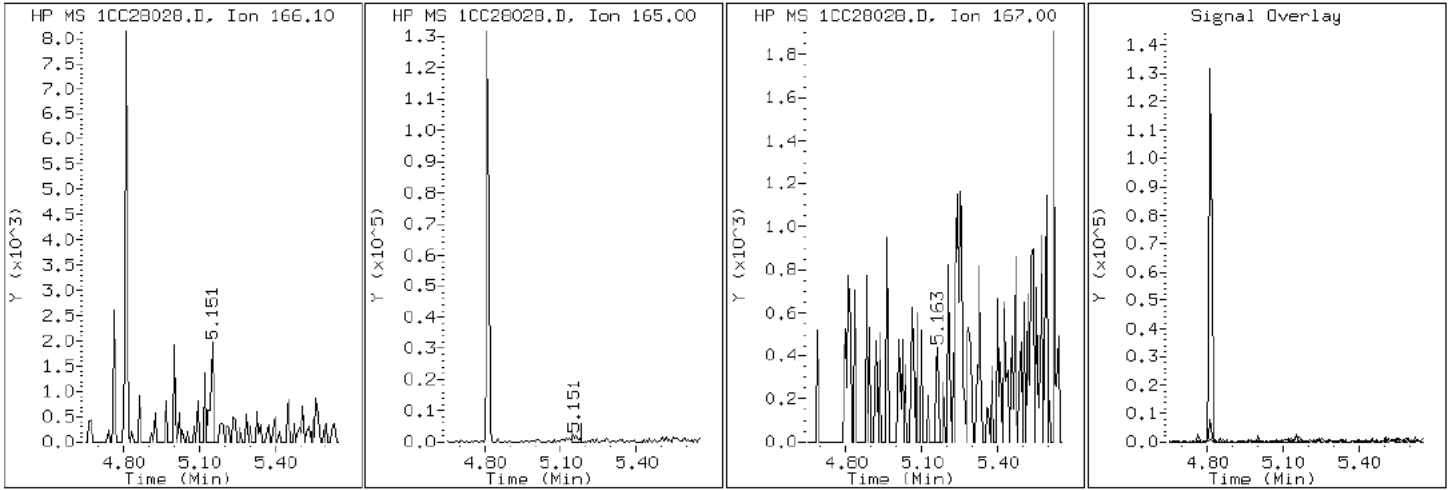
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

9 Fluorene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

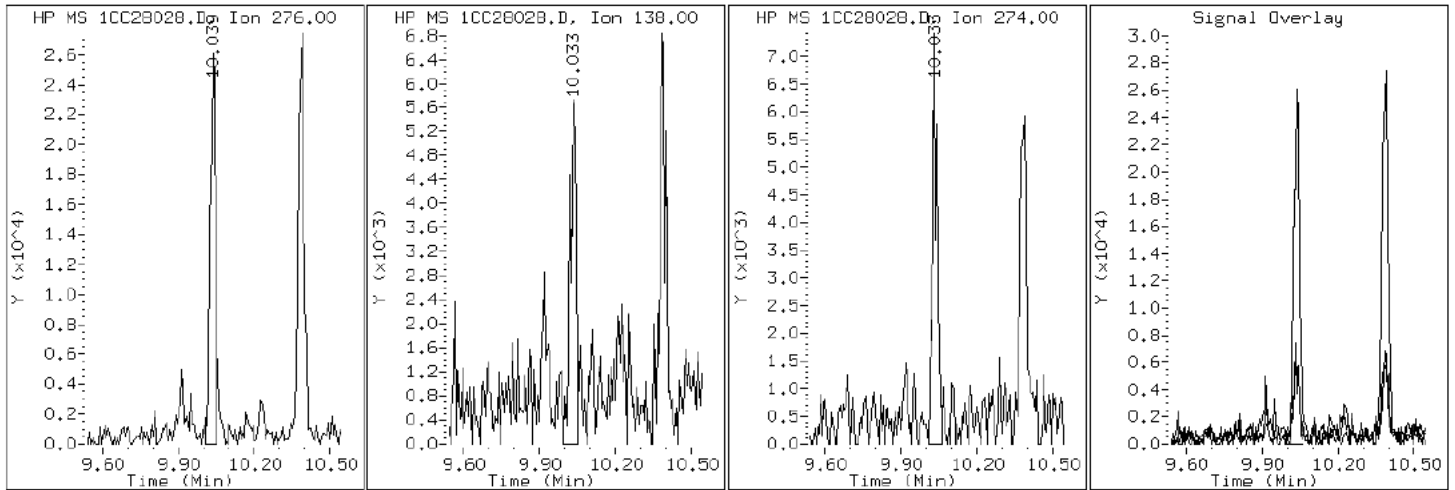
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

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



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

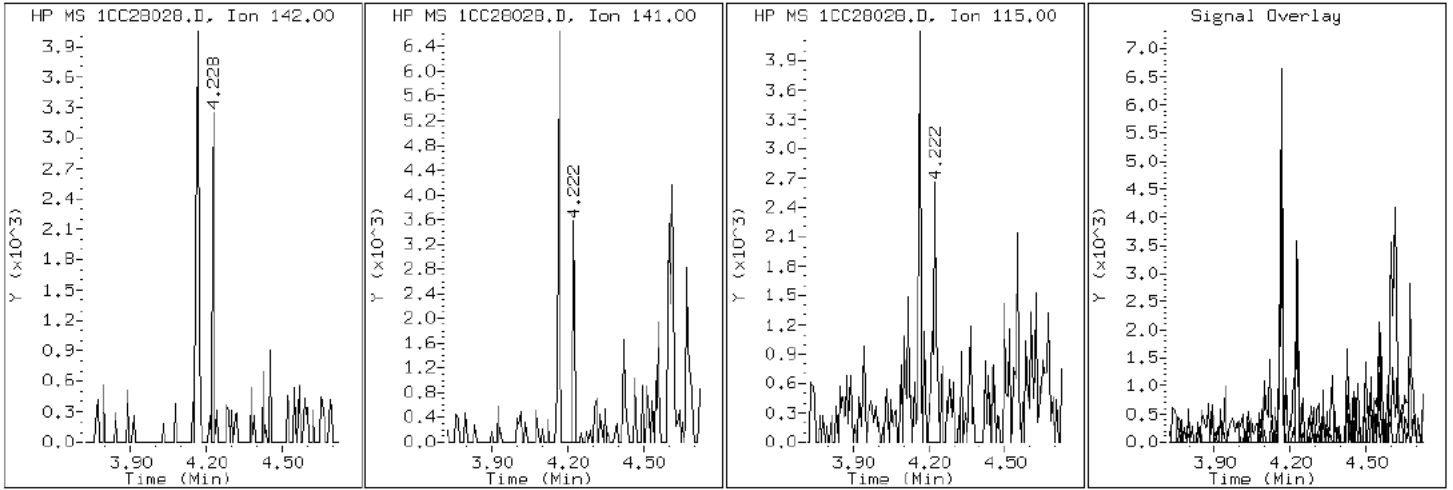
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

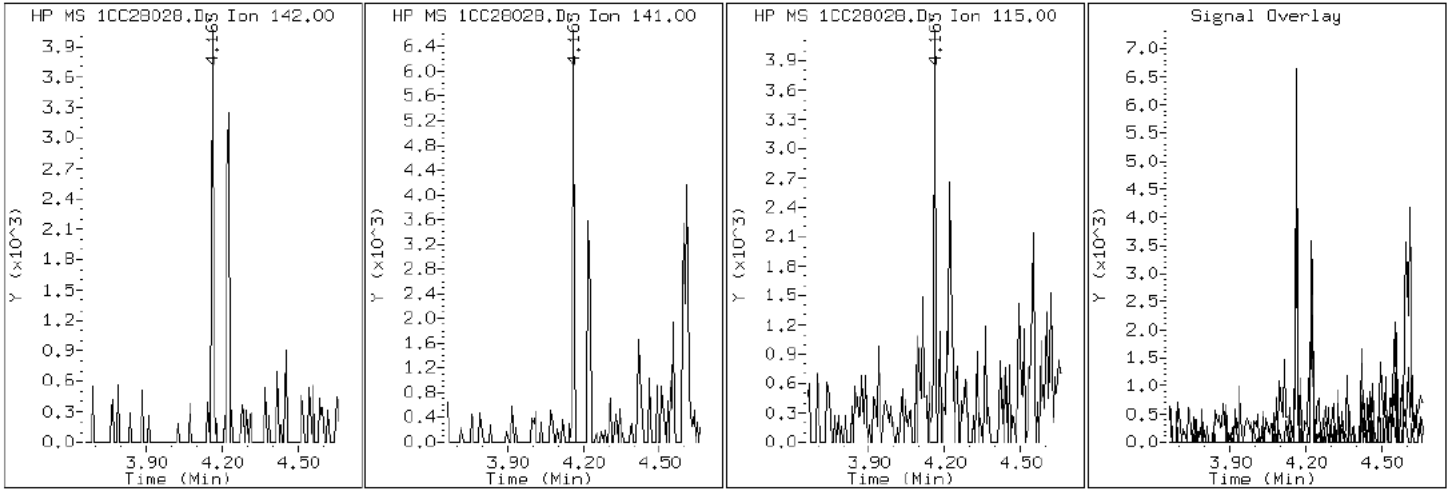
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

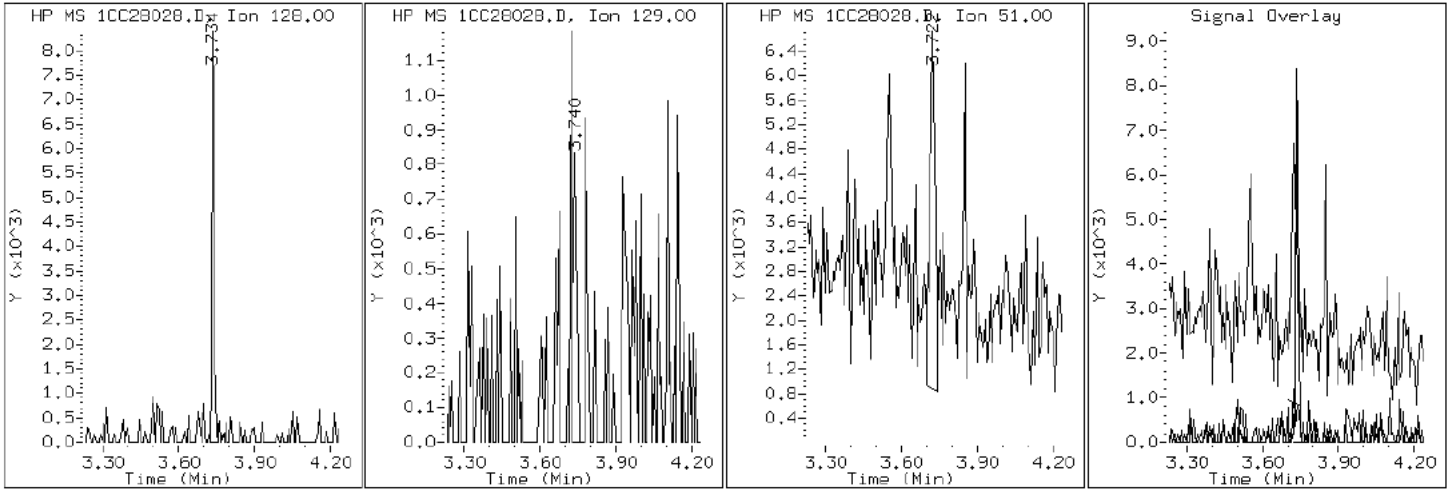
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

2 Naphthalene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

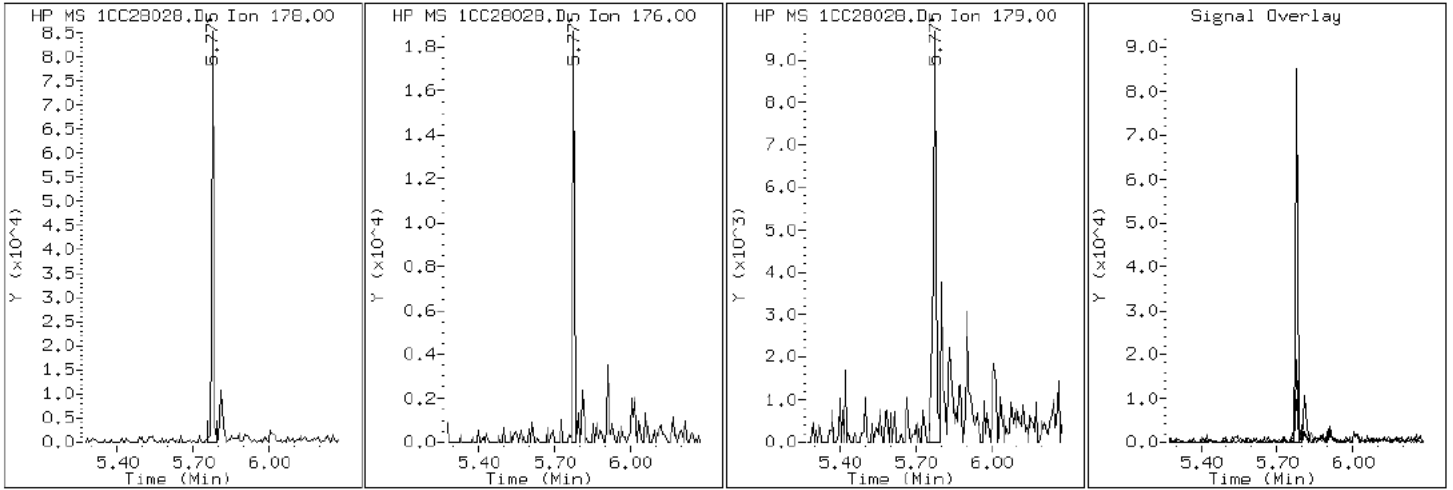
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28028.D

Date: 28-MAR-2013 19:39

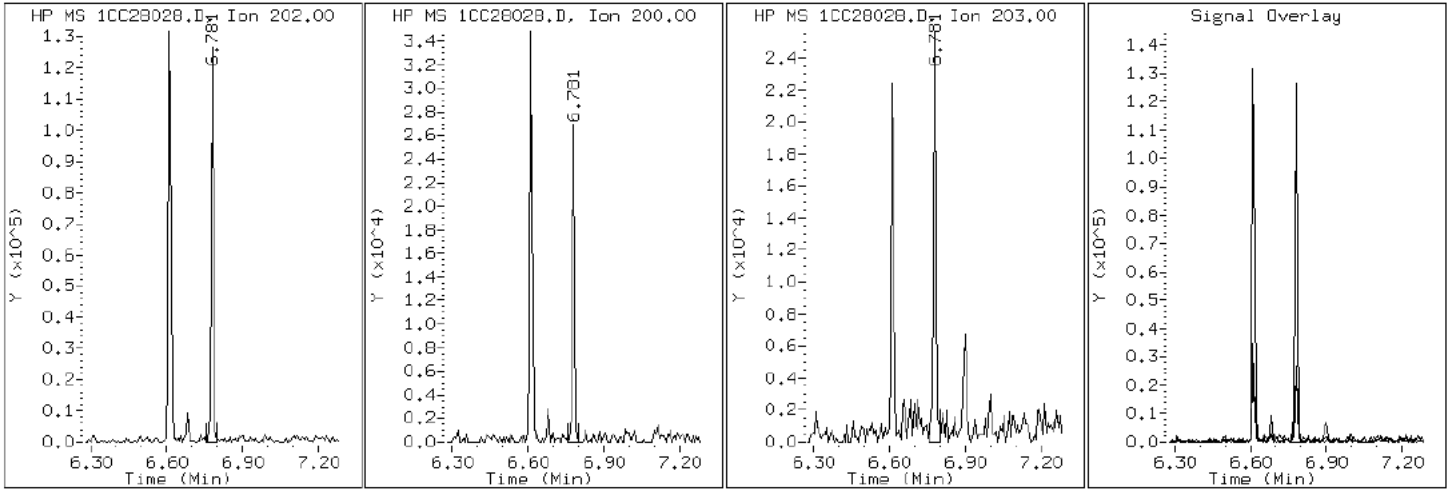
Client ID: CV1360BB-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-9-a

Operator: SCC

16 Pyrene

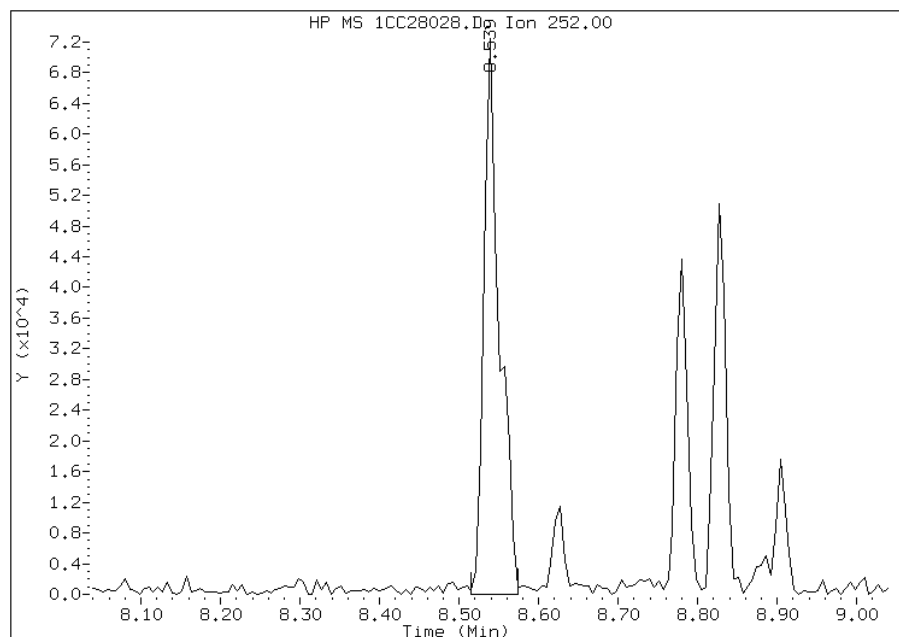


Manual Integration Report

Data File: 1CC28028.D
Inj. Date and Time: 28-MAR-2013 19:39
Instrument ID: BSMC5973.i
Client ID: CV1360BB-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/01/2013

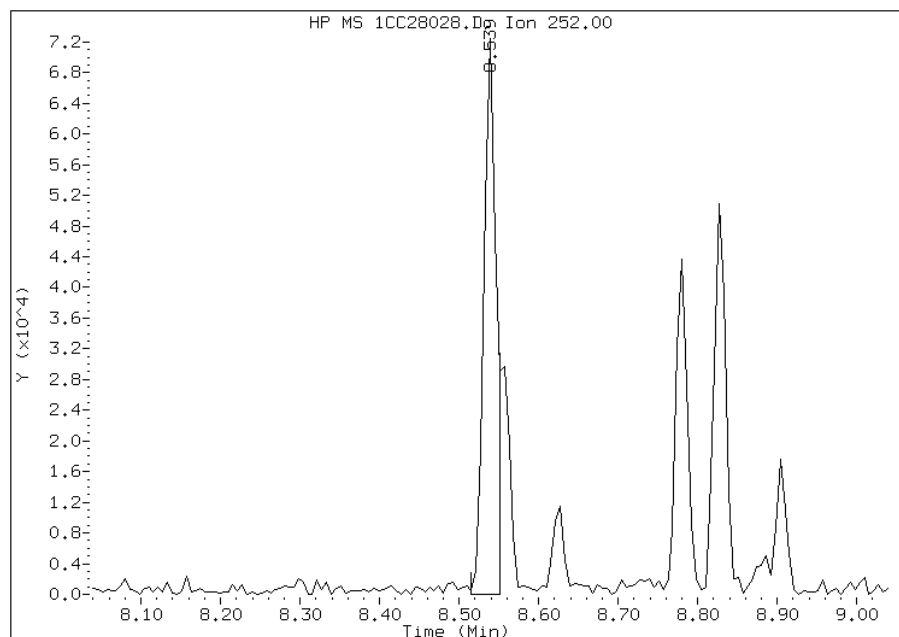
Processing Integration Results

RT: 8.54
Response: 98579
Amount: 3
Conc: 1211



Manual Integration Results

RT: 8.54
Response: 78164
Amount: 3
Conc: 960



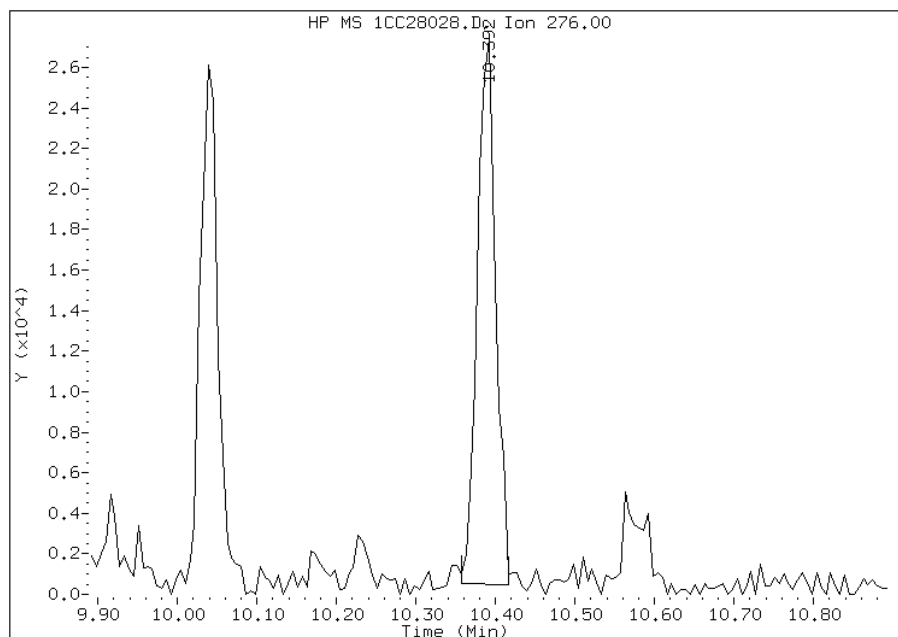
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC28028.D
Inj. Date and Time: 28-MAR-2013 19:39
Instrument ID: BSMC5973.i
Client ID: CV1360BB-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/01/2013

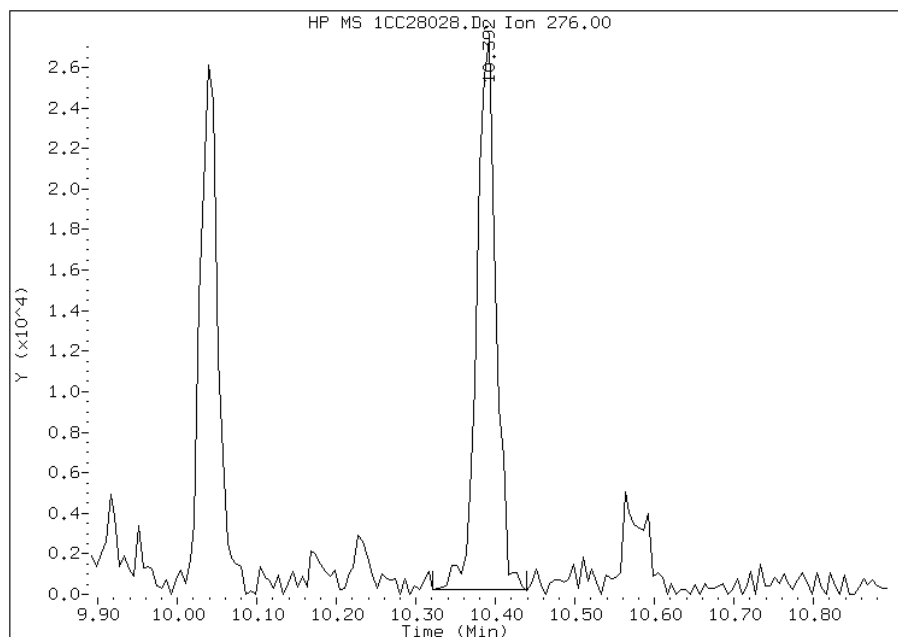
Processing Integration Results

RT: 10.39
Response: 42674
Amount: 1
Conc: 549



Manual Integration Results

RT: 10.39
Response: 45309
Amount: 2
Conc: 582



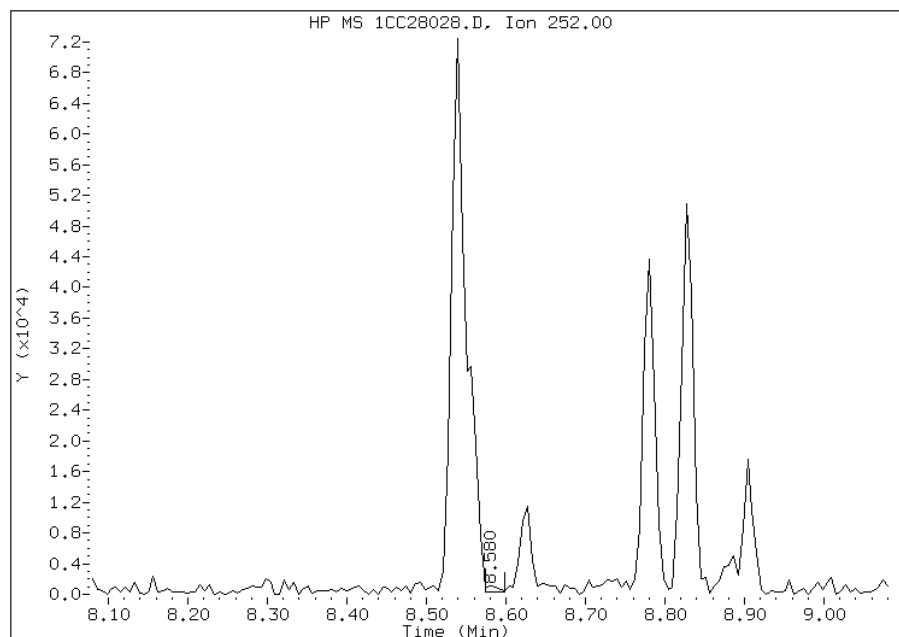
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28028.D
Inj. Date and Time: 28-MAR-2013 19:39
Instrument ID: BSMC5973.i
Client ID: CV1360BB-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/01/2013

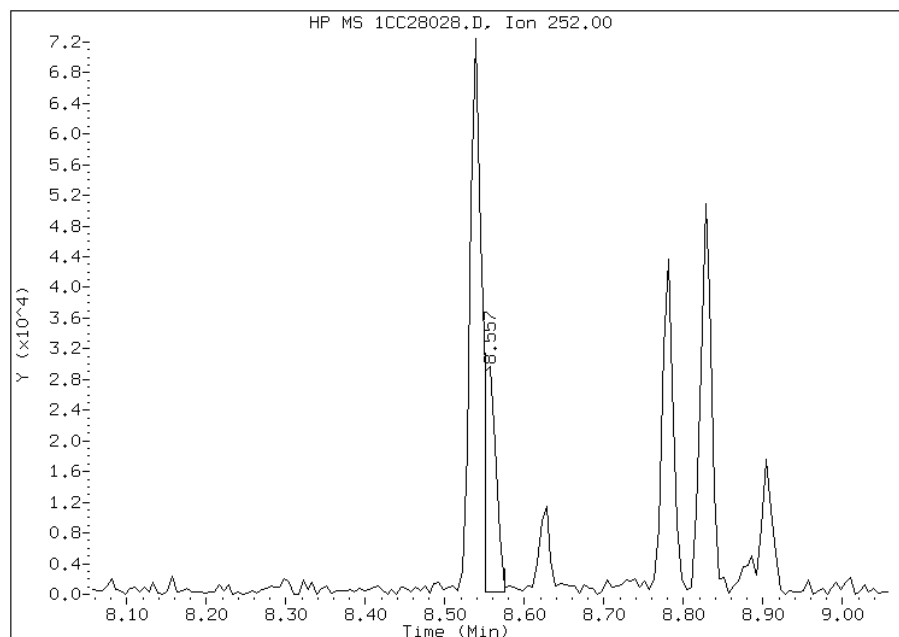
Processing Integration Results

RT: 8.58
Response: 950
Amount: 0
Conc: 11



Manual Integration Results

RT: 8.56
Response: 30218
Amount: 1
Conc: 362



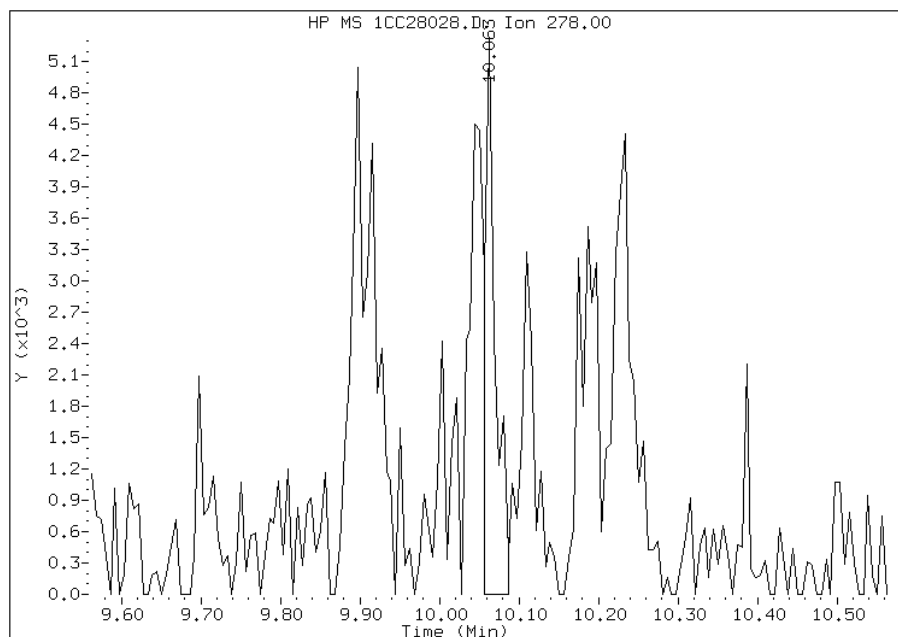
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28028.D
Inj. Date and Time: 28-MAR-2013 19:39
Instrument ID: BSMC5973.i
Client ID: CV1360BB-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/01/2013

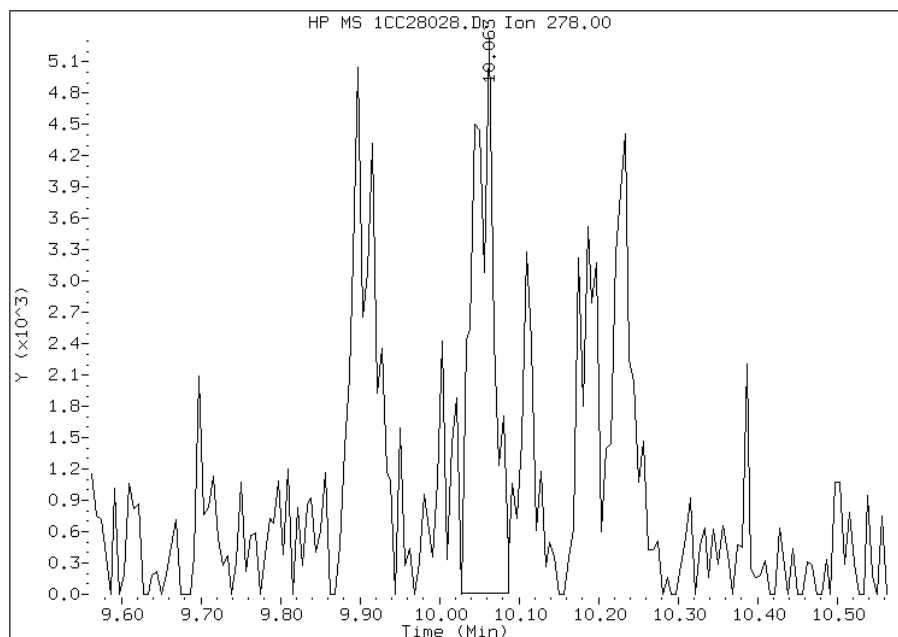
Processing Integration Results

RT: 10.06
Response: 5003
Amount: 0
Conc: 69



Manual Integration Results

RT: 10.06
Response: 9878
Amount: 0
Conc: 136



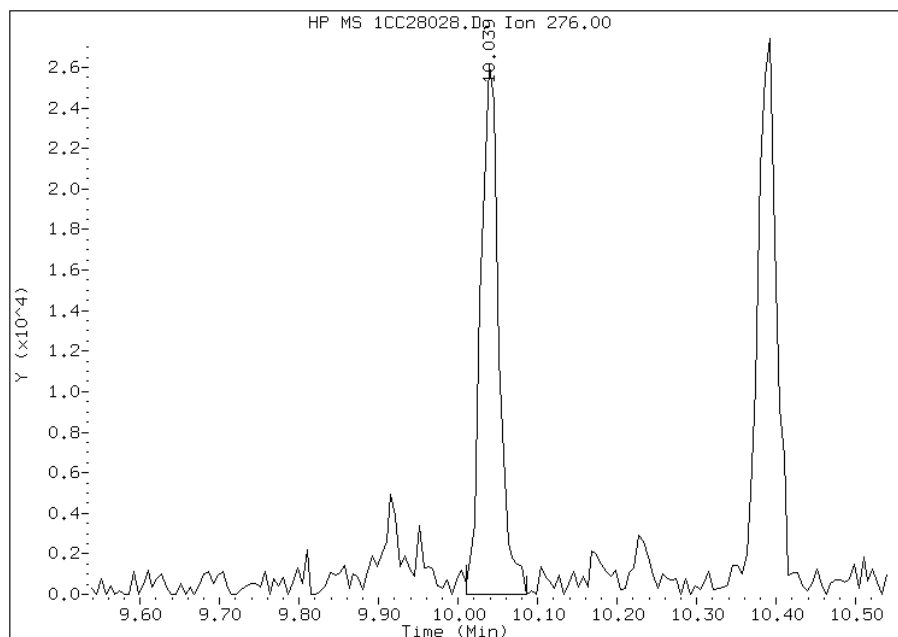
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:42
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28028.D
Inj. Date and Time: 28-MAR-2013 19:39
Instrument ID: BSMC5973.i
Client ID: CV1360BB-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

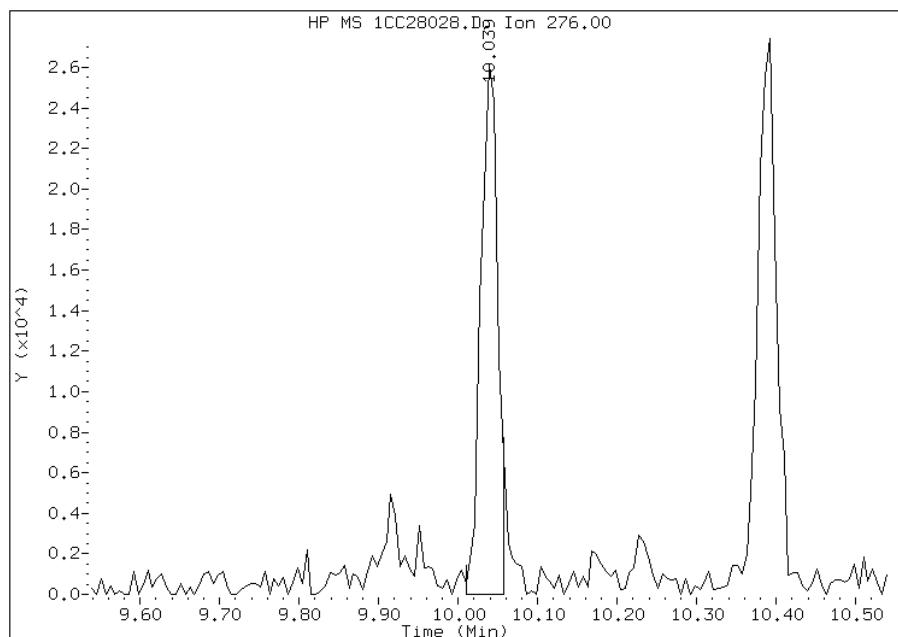
Processing Integration Results

RT: 10.04
Response: 41123
Amount: 1
Conc: 553



Manual Integration Results

RT: 10.04
Response: 38589
Amount: 1
Conc: 519



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1360CC-CS Lab Sample ID: 680-88592-10
 Matrix: Solid Lab File ID: 1CC27011.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 09:58
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07
 Sample wt/vol: 15.26(g) Date Analyzed: 03/27/2013 13:15
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 23.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	34	J	130	26
208-96-8	Acenaphthylene	14	J	52	6.4
120-12-7	Anthracene	87		11	5.4
56-55-3	Benzo[a]anthracene	310		10	5.0
50-32-8	Benzo[a]pyrene	260		13	6.7
205-99-2	Benzo[b]fluoranthene	480		16	7.9
191-24-2	Benzo[g,h,i]perylene	190		26	5.7
207-08-9	Benzo[k]fluoranthene	170		10	4.6
218-01-9	Chrysene	330		12	5.8
53-70-3	Dibenz(a,h)anthracene	65		26	5.3
206-44-0	Fluoranthene	600		26	5.2
86-73-7	Fluorene	40		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	140		26	9.1
90-12-0	1-Methylnaphthalene	52		52	5.7
91-57-6	2-Methylnaphthalene	59		52	9.1
91-20-3	Naphthalene	57		52	5.7
85-01-8	Phenanthrene	370		10	5.0
129-00-0	Pyrene	510		26	4.8

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\1C032713.b\1CC27011.D
 Lab Smp Id: 680-88592-A-10-B Client Smp ID: CV1360CC-CS
 Inj Date : 27-MAR-2013 13:15
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-10-b
 Misc Info : 680-88592-A-10-B
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	Weight Extracted
M	23.725	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	804520	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	638302	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1118423	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	105505	6.24797	536.7877	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1325113	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1292528	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	13914	0.66432	57.0744(Q)	
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	9627	0.68907	59.2005	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	7639	0.60035	51.5783	
5 Acenaphthylene	152		4.727	4.727	(0.982)	4340	0.16865	14.4890	
7 Acenaphthene	154		4.833	4.833	(1.004)	6314	0.39474	33.9136	
9 Fluorene	166		5.157	5.157	(1.071)	9347	0.46206	39.6973	
11 Phenanthrene	178		5.780	5.780	(1.003)	138499	4.28261	367.9359	
12 Anthracene	178		5.815	5.815	(1.009)	32202	1.01814	87.4726	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921	(1.028)	24797	0.88198	75.7741
15 Fluoranthene	202	6.615	6.615	(1.148)	248061	7.00420	601.7581
16 Pyrene	202	6.780	6.786	(0.880)	211638	5.94313	510.5979
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	138745	3.62776	311.6754
19 Chrysene	228	7.721	7.727	(1.002)	147537	3.85475	331.1769
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	189764	5.61788	482.6543
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	70019	2.02066	173.6027
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	100525	3.06385	263.2272
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050	(1.130)	51429	1.66626	143.1547(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.068	(1.132)	22969	0.76081	65.3639
26 Benzo(g,h,i)perylene	276	10.392	10.397	(1.169)	69746	2.16017	185.5882

QC Flag Legend

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

Data File: 1CC27011.D

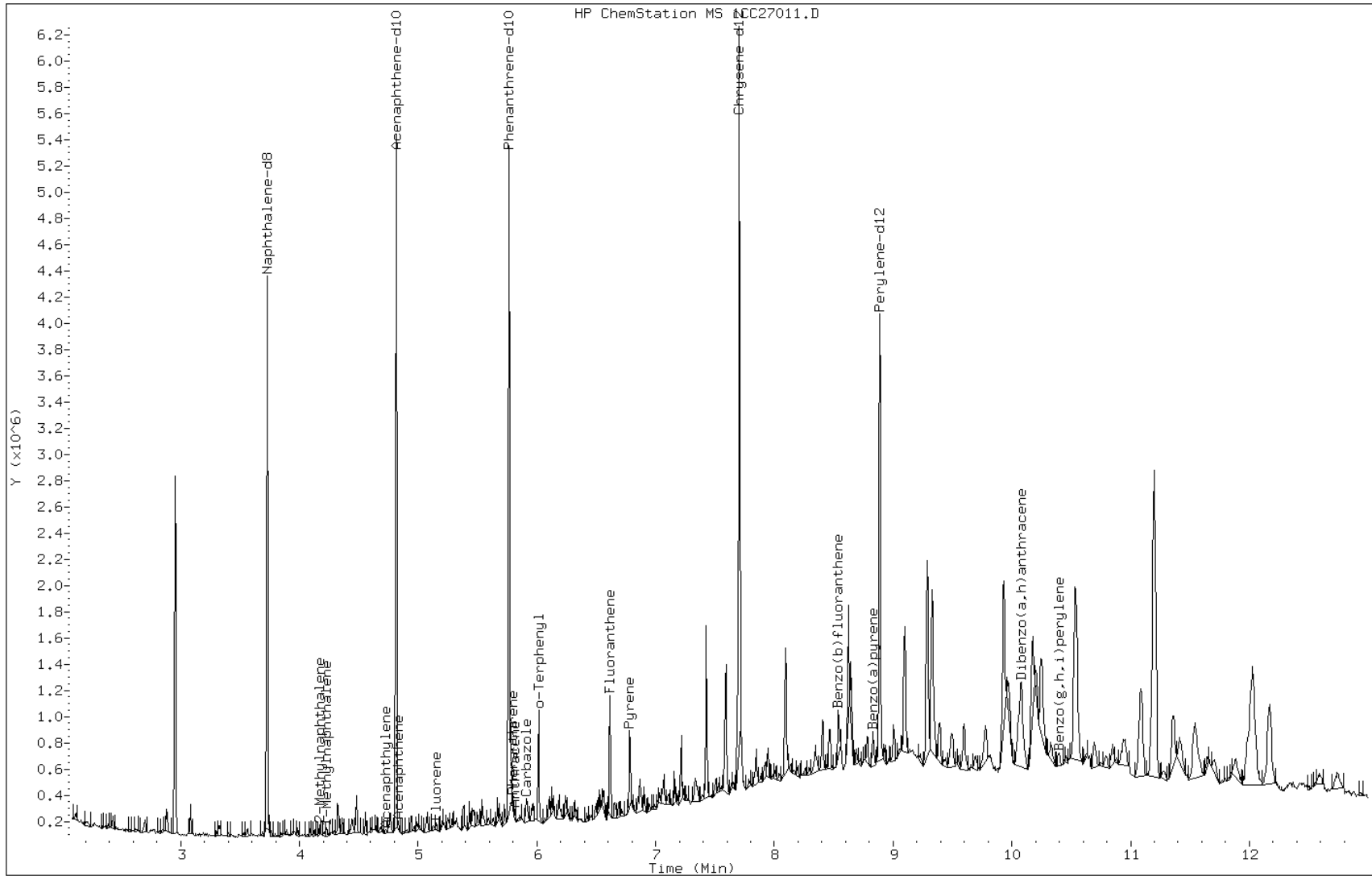
Date: 27-MAR-2013 13:15

Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

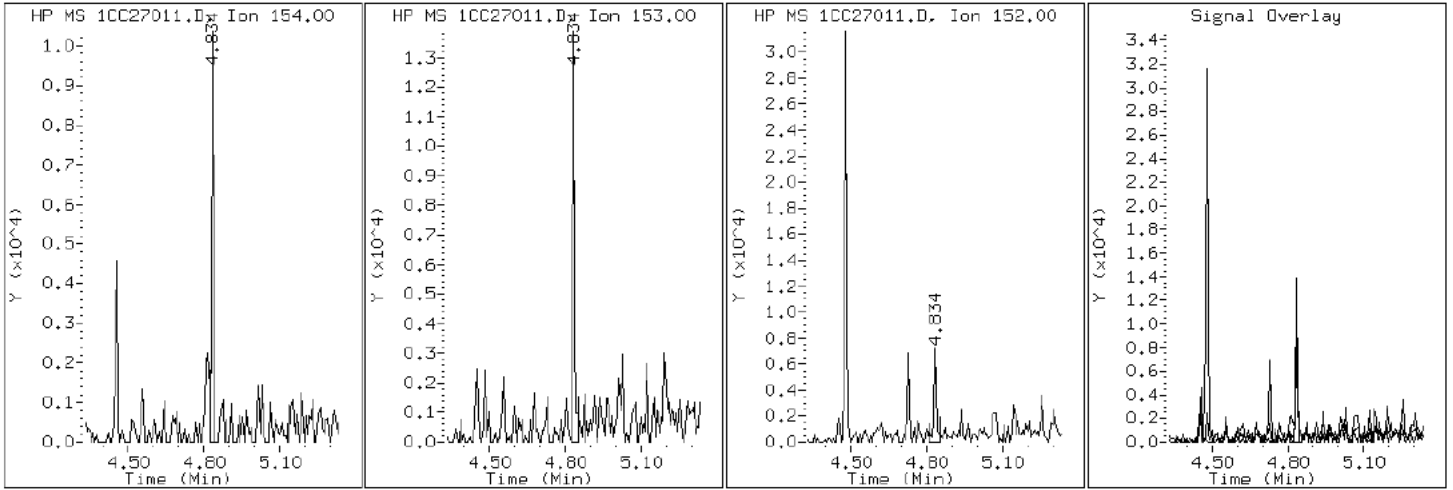
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

7 Acenaphthene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

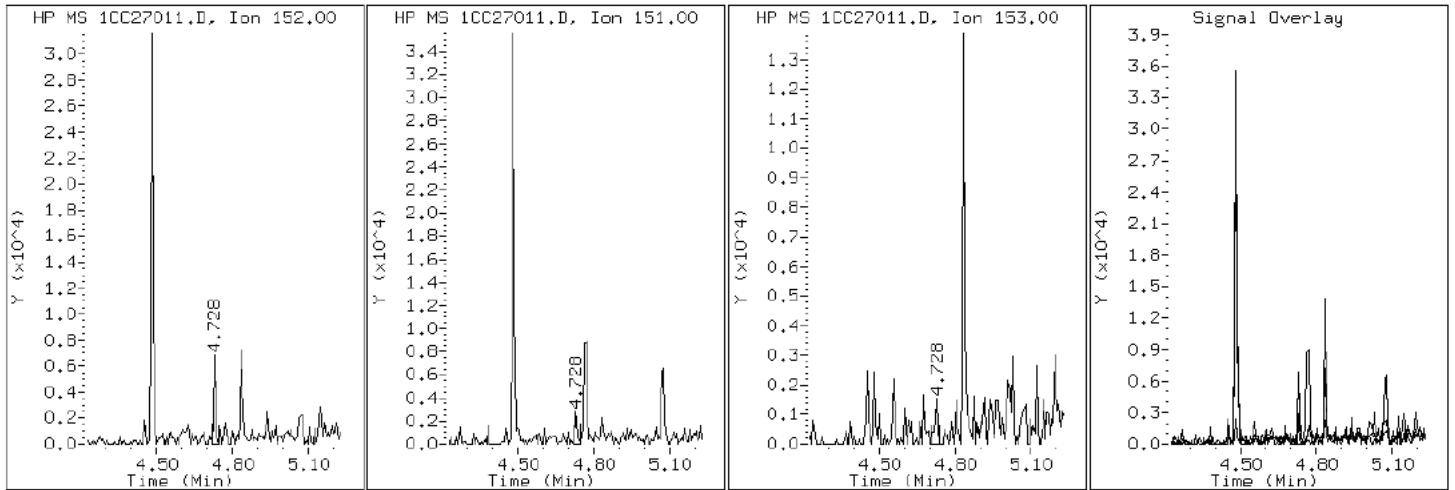
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

5 Acenaphthylene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

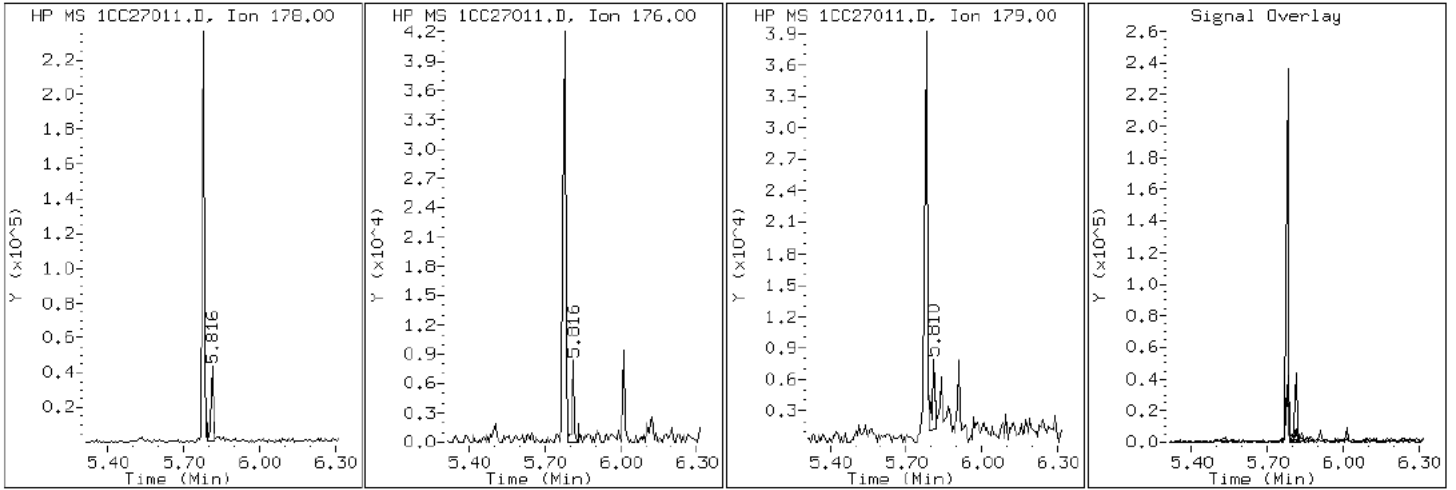
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

12 Anthracene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

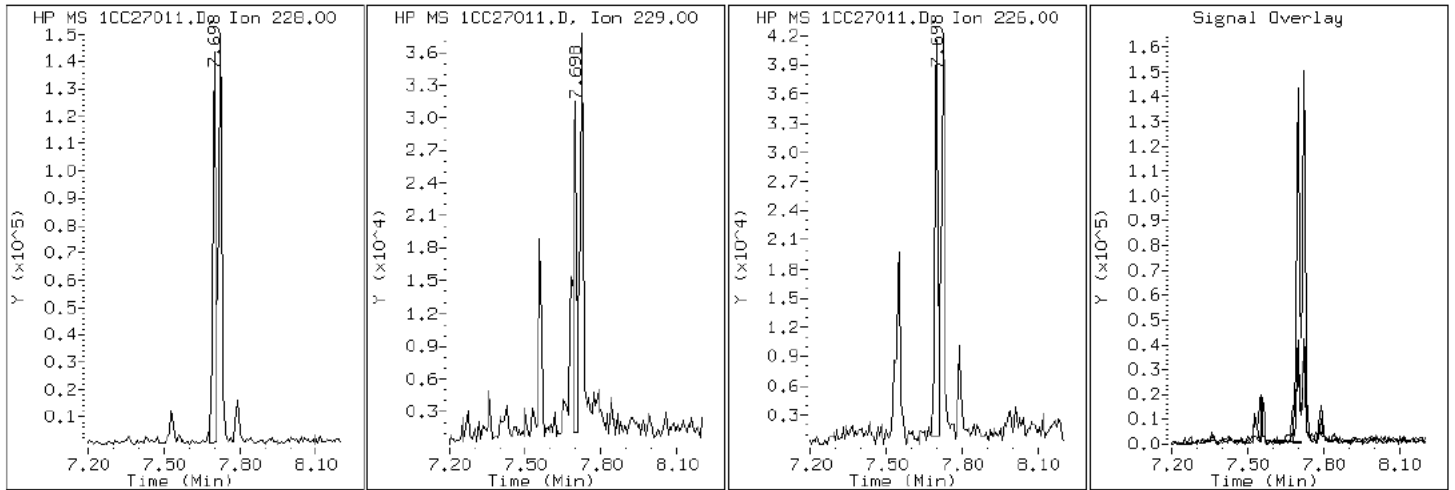
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

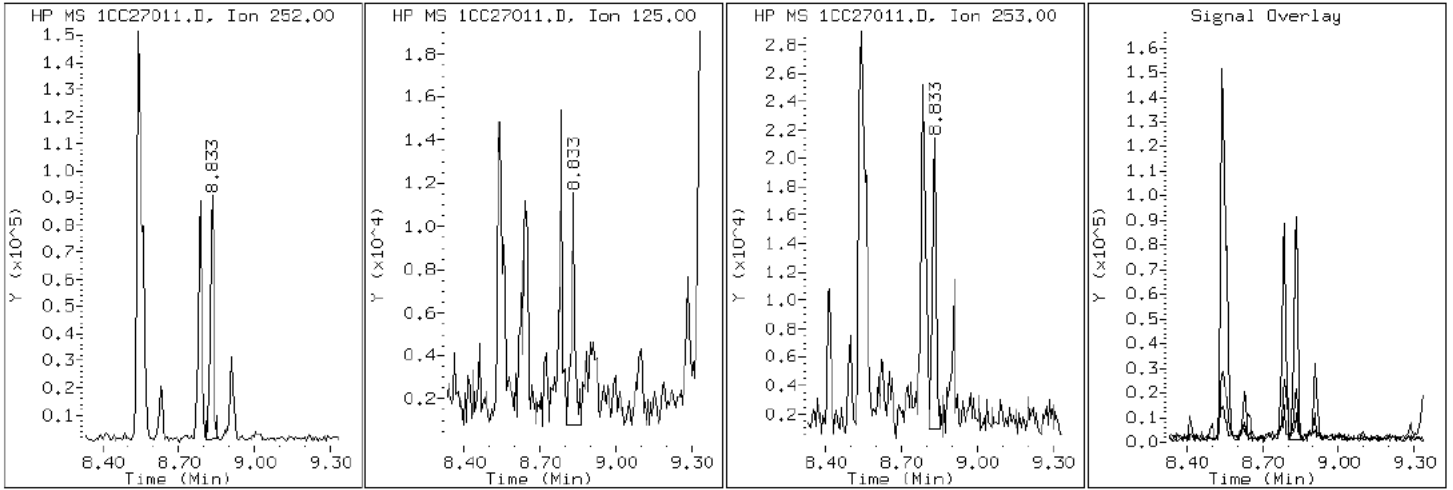
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

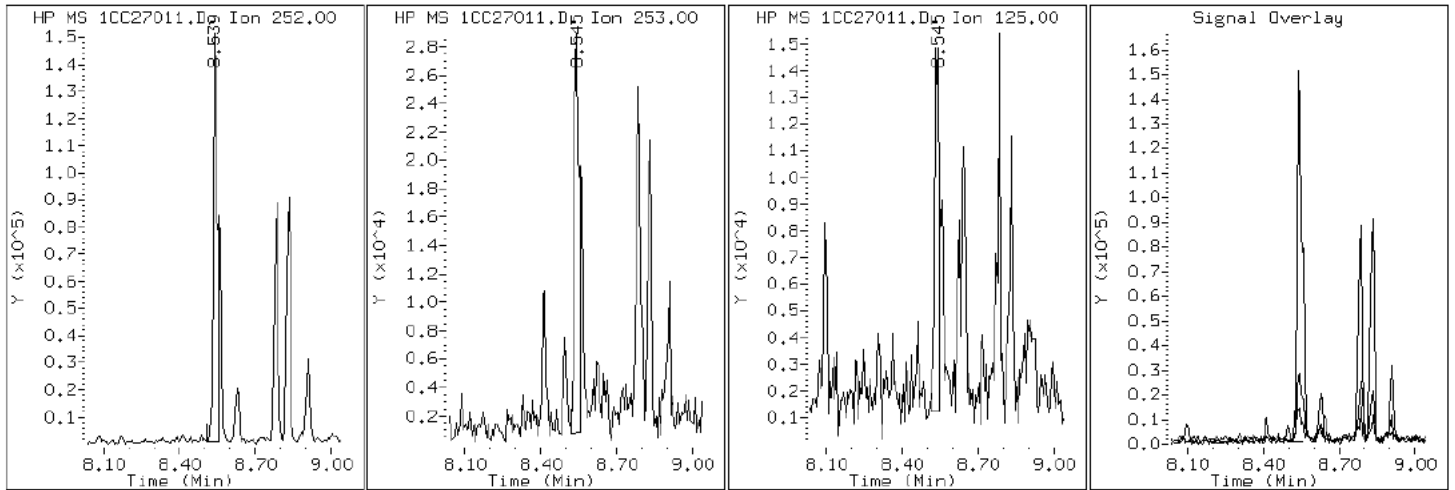
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

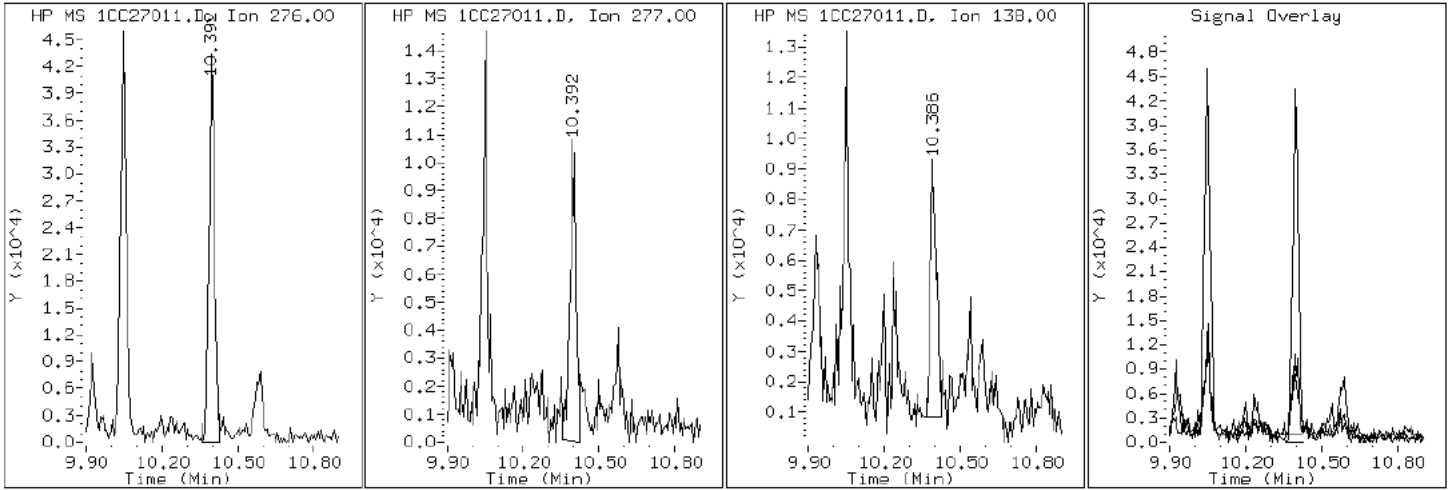
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

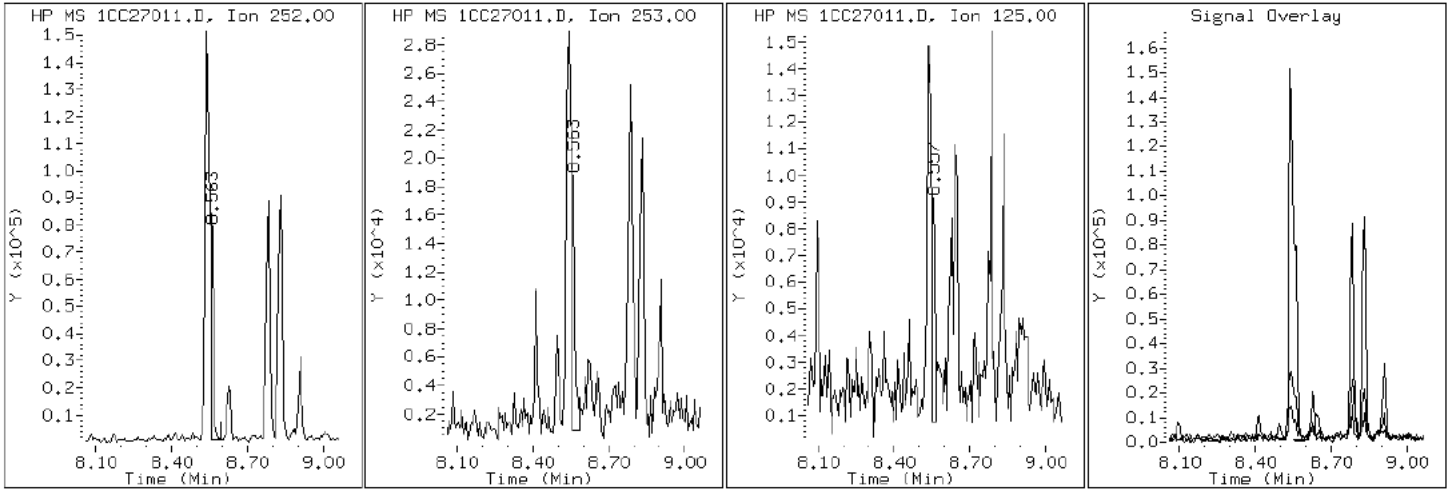
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

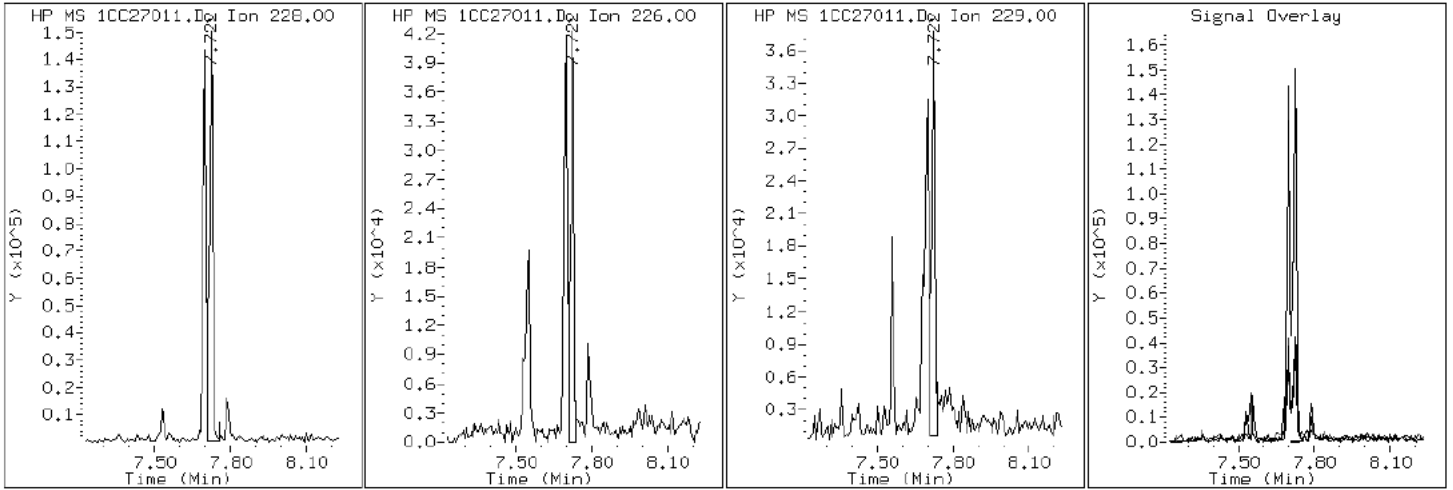
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

19 Chrysene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

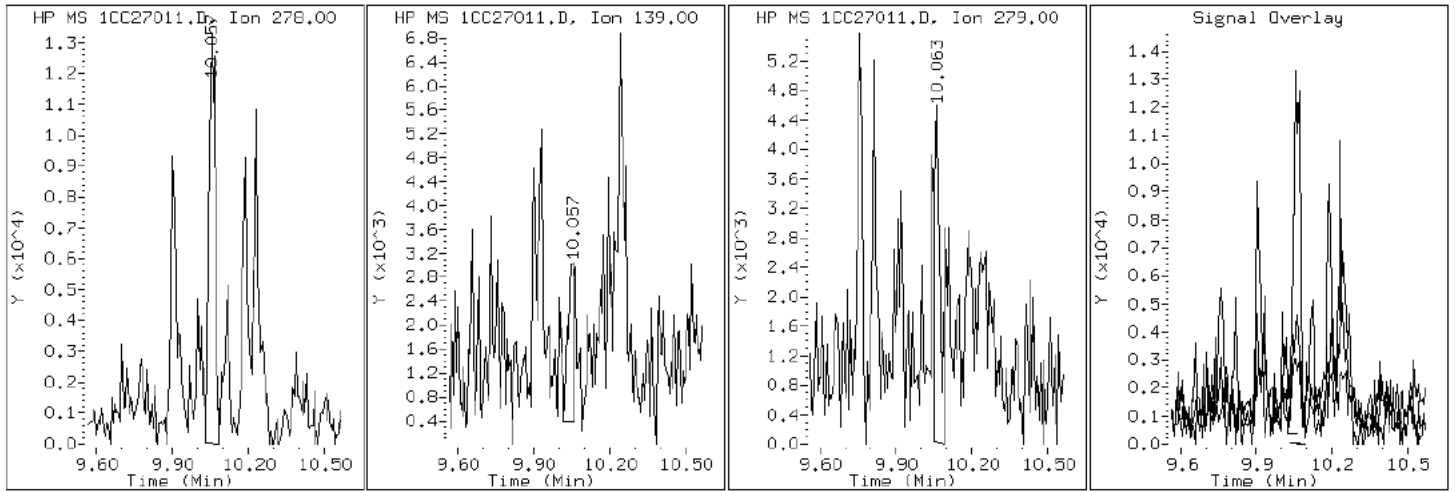
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

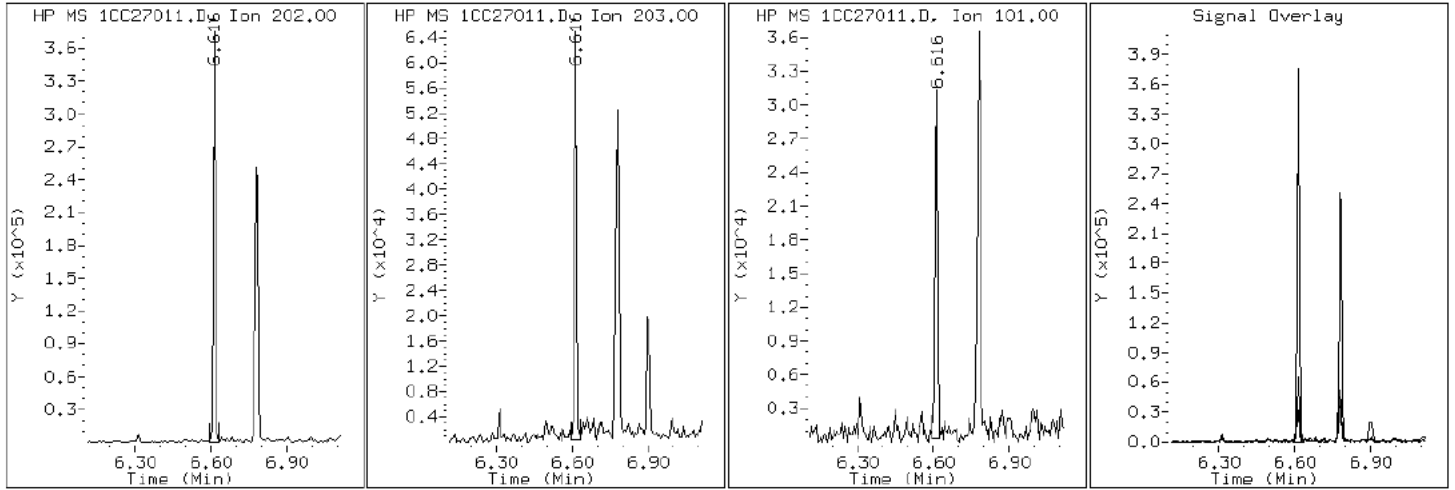
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

15 Fluoranthene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

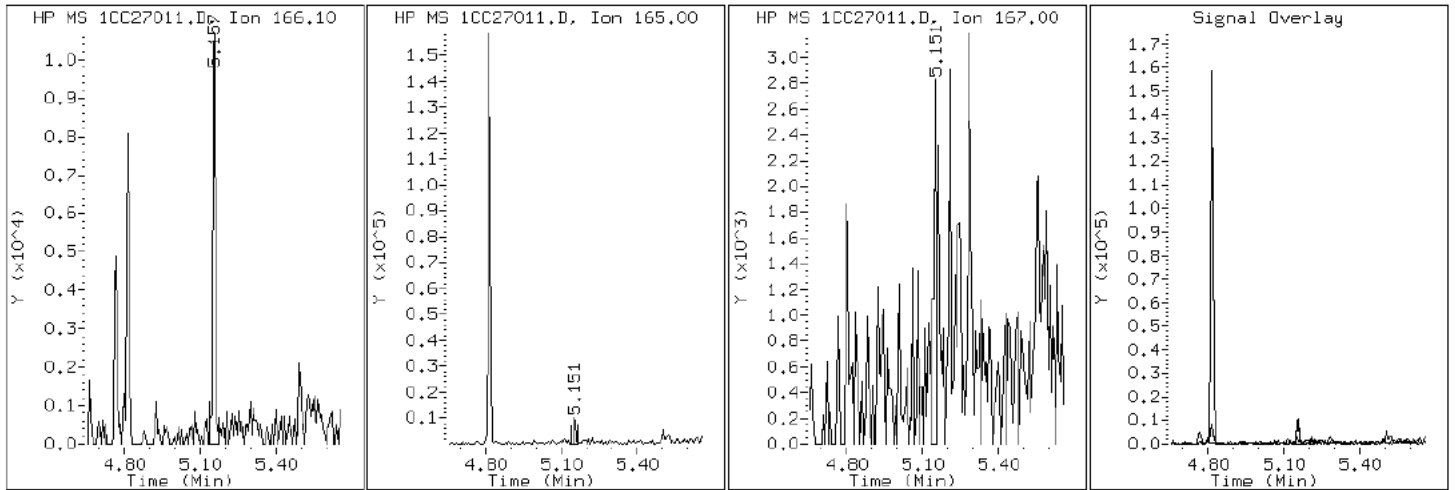
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

9 Fluorene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

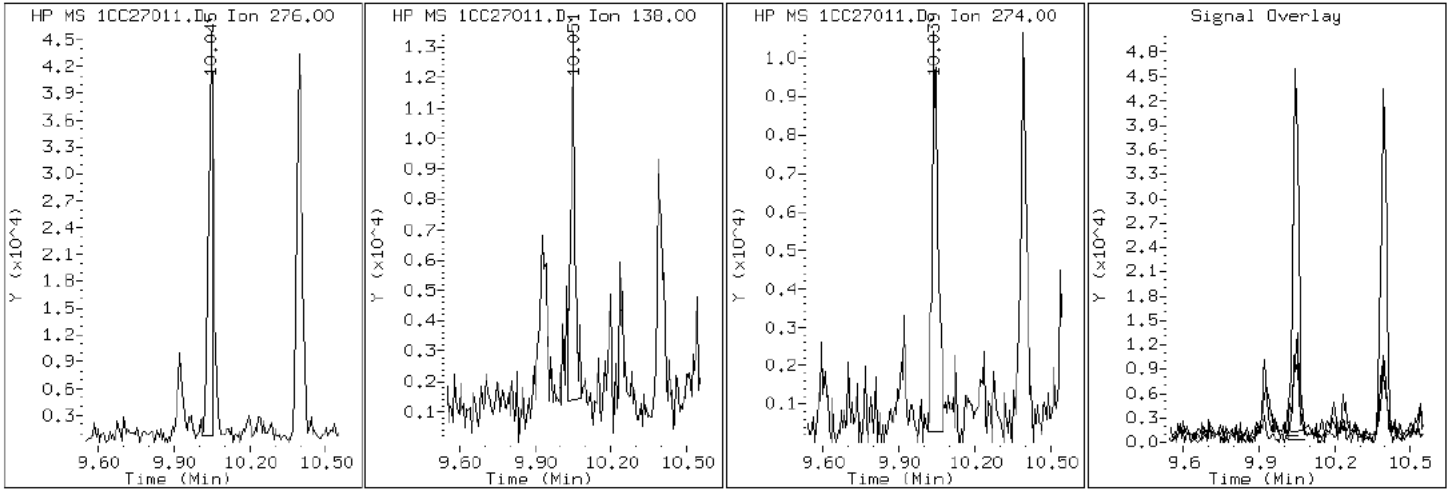
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

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



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

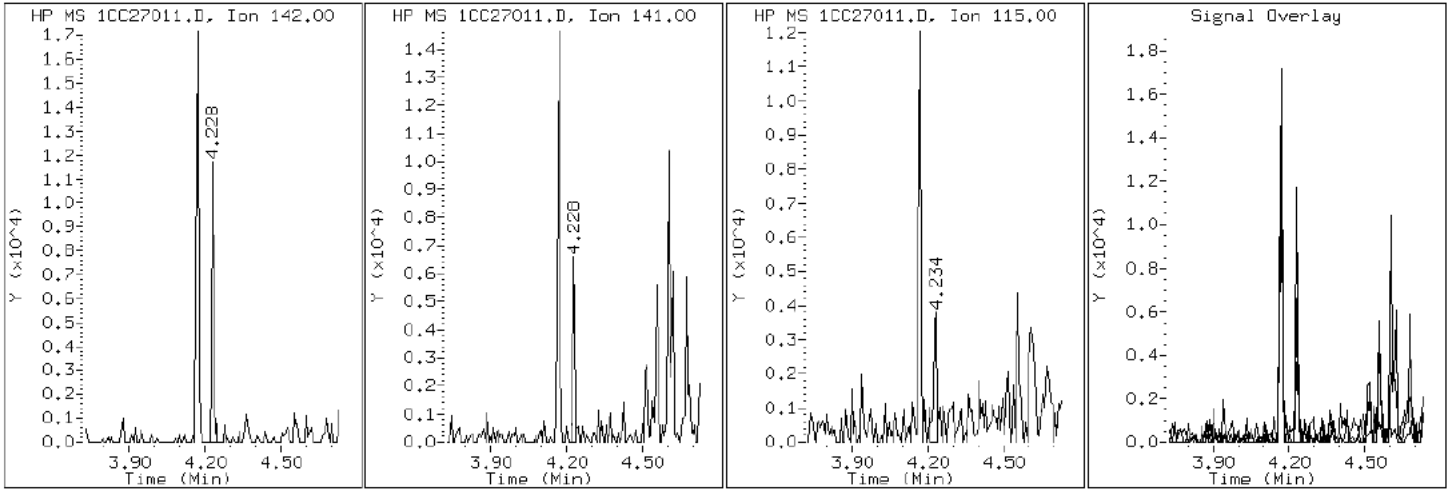
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

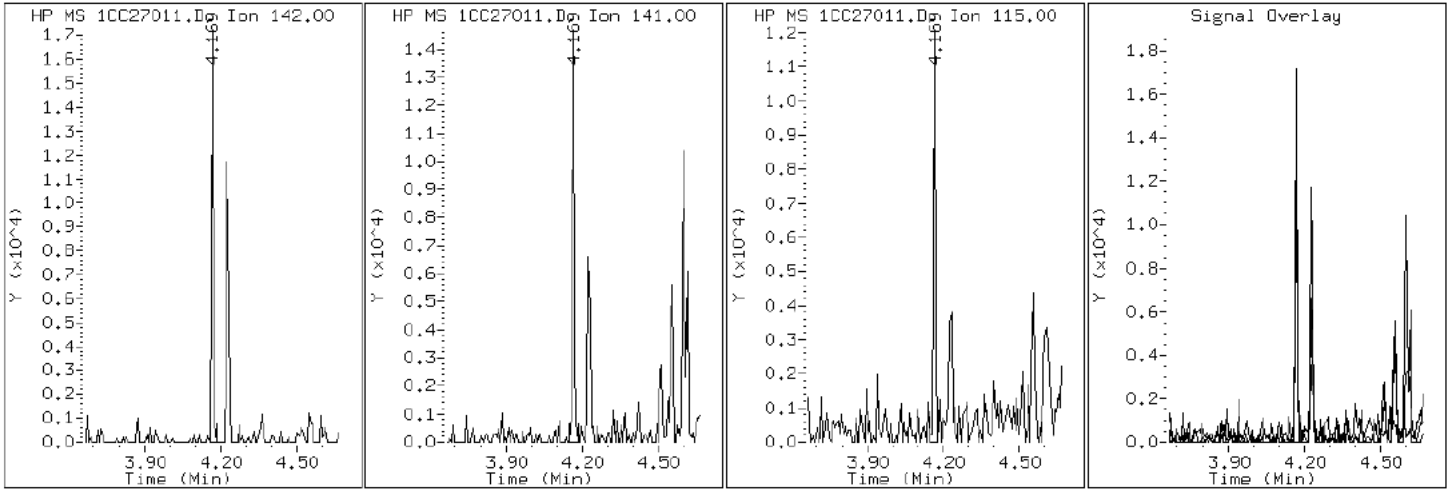
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

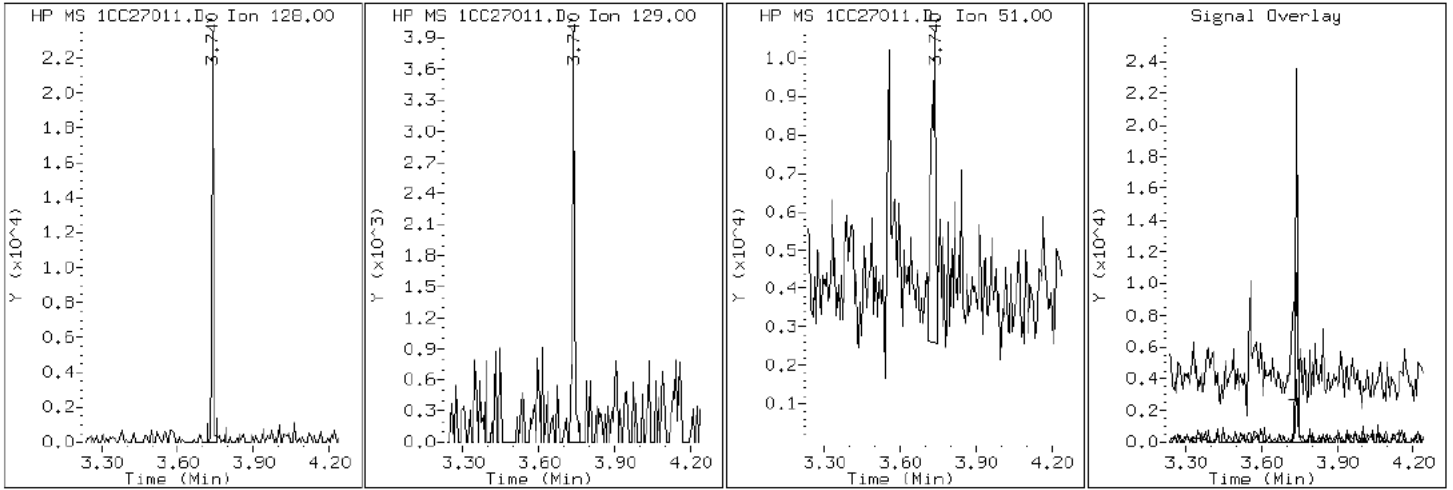
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

2 Naphthalene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

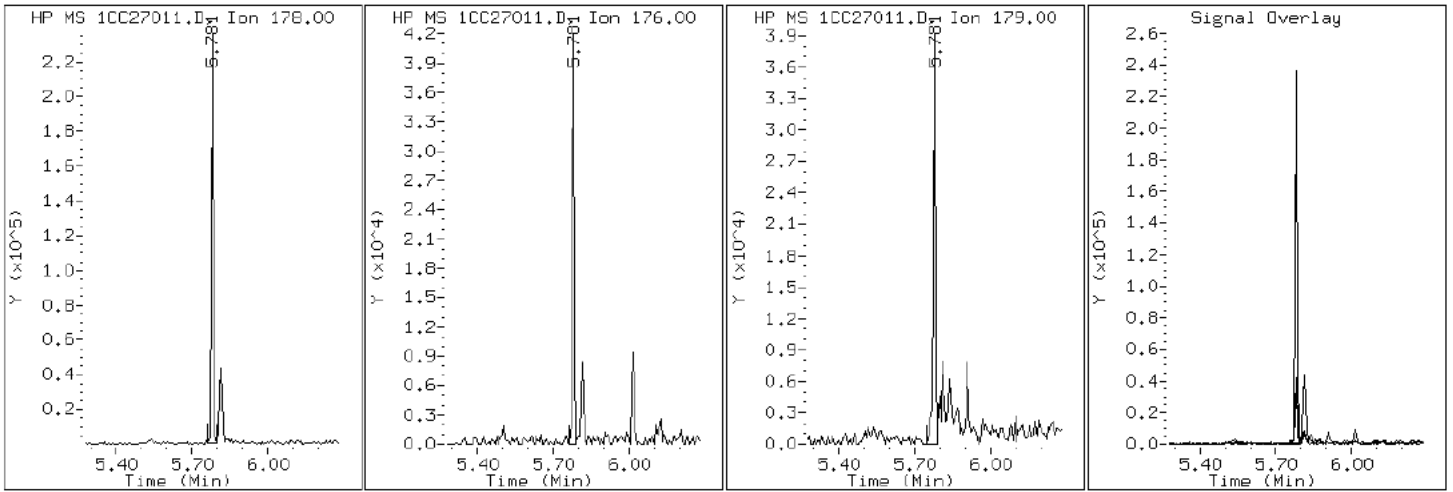
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

11 Phenanthrene



Data File: 1CC27011.D

Date: 27-MAR-2013 13:15

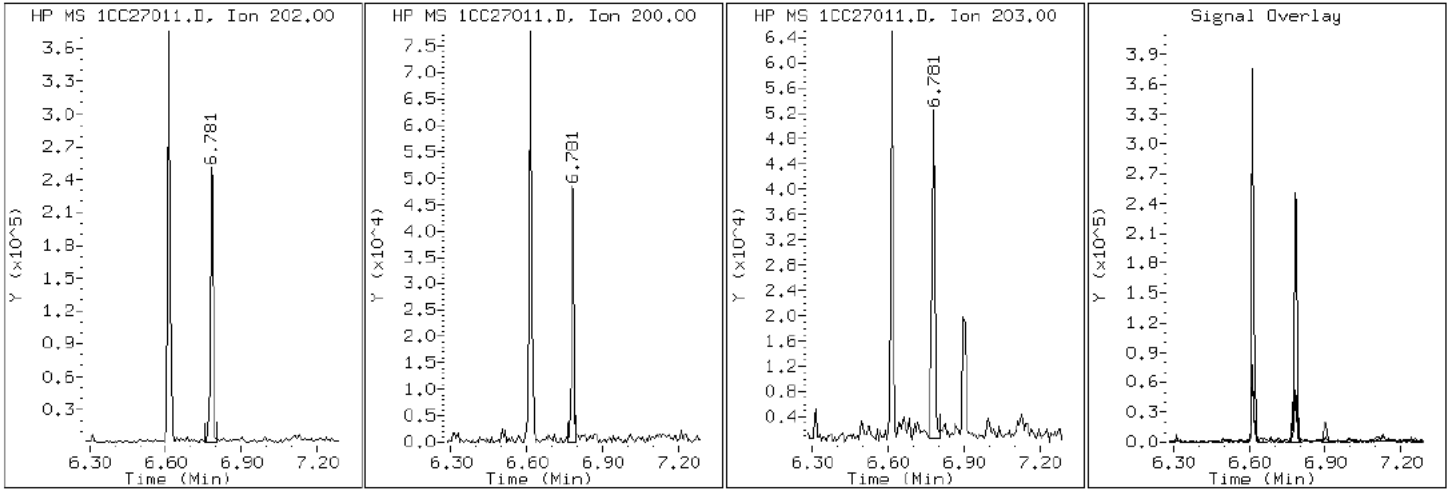
Client ID: CV1360CC-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-10-b

Operator: SCC

16 Pyrene

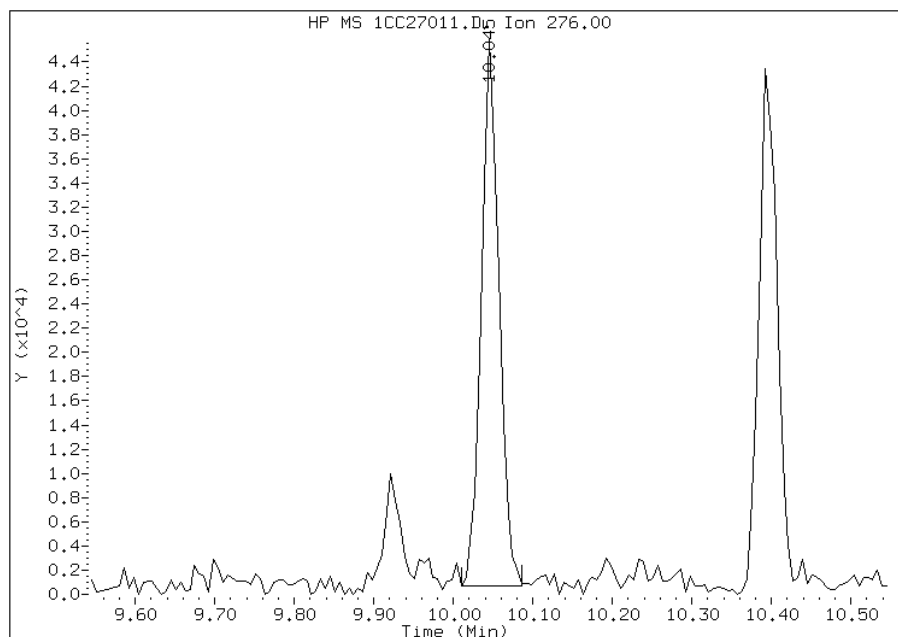


Manual Integration Report

Data File: 1CC27011.D
Inj. Date and Time: 27-MAR-2013 13:15
Instrument ID: BSMC5973.i
Client ID: CV1360CC-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

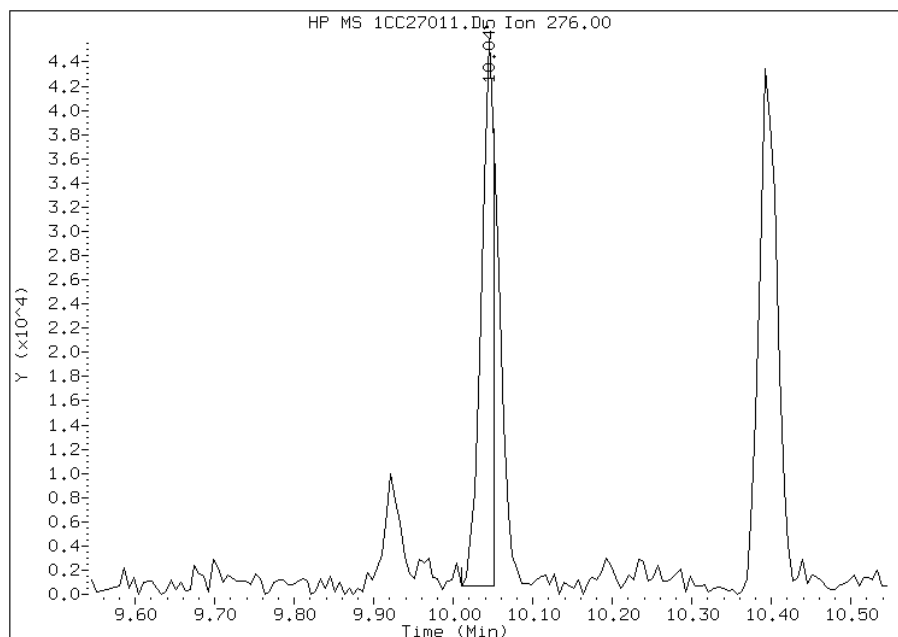
Processing Integration Results

RT: 10.05
Response: 68877
Amount: 2
Conc: 192



Manual Integration Results

RT: 10.05
Response: 51429
Amount: 2
Conc: 143



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 11:09
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1328A-CS Lab Sample ID: 680-88592-11
 Matrix: Solid Lab File ID: 1CC28029.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 09:00
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.22(g) Date Analyzed: 03/28/2013 19:57
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	31	J	200	25
120-12-7	Anthracene	62		41	21
56-55-3	Benzo[a]anthracene	280		39	19
50-32-8	Benzo[a]pyrene	260		51	25
205-99-2	Benzo[b]fluoranthene	400		60	30
191-24-2	Benzo[g,h,i]perylene	170		98	22
207-08-9	Benzo[k]fluoranthene	170		39	18
218-01-9	Chrysene	280		44	22
53-70-3	Dibenz(a,h)anthracene	98	U	98	20
206-44-0	Fluoranthene	420		98	20
86-73-7	Fluorene	39	J	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	120		98	35
90-12-0	1-Methylnaphthalene	73	J	200	22
91-57-6	2-Methylnaphthalene	58	J	200	35
91-20-3	Naphthalene	48	J	200	22
85-01-8	Phenanthrene	260		39	19
129-00-0	Pyrene	470		98	18

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\1C032813.b\1CC28029.D
 Lab Smp Id: 680-88592-A-11-A Client Smp ID: CV1328A-CS
 Inj Date : 28-MAR-2013 19:57
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-11-a
 Misc Info : 680-88592-A-11-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 29
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.220	Weight Extracted
M	19.599	% 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		3.722	3.722	(1.000)	787537	40.0000		
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	598484	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.763	(1.000)	1061811	40.0000		
\$ 14 o-Terphenyl	230		6.010	6.010	(1.043)	26429	1.64856	538.8775	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1187448	40.0000		
* 23 Perylene-d12	264		8.880	8.886	(1.000)	1163420	40.0000		
2 Naphthalene	128		3.733	3.733	(1.003)	3020	0.14730	48.1485	
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	2419	0.17688	57.8172	
4 1-Methylnaphthalene	142		4.222	4.222	(1.134)	2764	0.22191	72.5363	
5 Acenaphthylene	152		4.722	4.722	(0.982)	2295	0.09511	31.0905	
9 Fluorene	166		5.151	5.151	(1.071)	2249	0.11857	38.7590	
11 Phenanthrene	178		5.774	5.774	(1.002)	24744	0.80592	263.4360	
12 Anthracene	178		5.810	5.810	(1.008)	5669	0.18880	61.7128	
13 Carbazole	167		5.916	5.921	(1.027)	3448	0.12918	42.2249	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.610	6.616	(1.147)	42764	1.27185	415.7397
16 Pyrene	202	6.780	6.780	(0.880)	45898	1.43831	470.1521
17 Benzo(a)anthracene	228	7.692	7.698	(0.998)	29662	0.86549	282.9077
19 Chrysene	228	7.721	7.721	(1.002)	29868	0.87084	284.6587
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.962)	37305	1.22696	401.0641(M)
21 Benzo(k)fluoranthene	252	8.557	8.562	(0.964)	15852	0.50824	166.1304(QM)
22 Benzo(a)pyrene	252	8.827	8.827	(0.994)	23692	0.80223	262.2302
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	10074	0.36261	118.5288(M)
26 Benzo(g,h,i)perylene	276	10.386	10.398	(1.170)	14806	0.50946	166.5303(M)

QC Flag Legend

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

Data File: 1CC28029.D

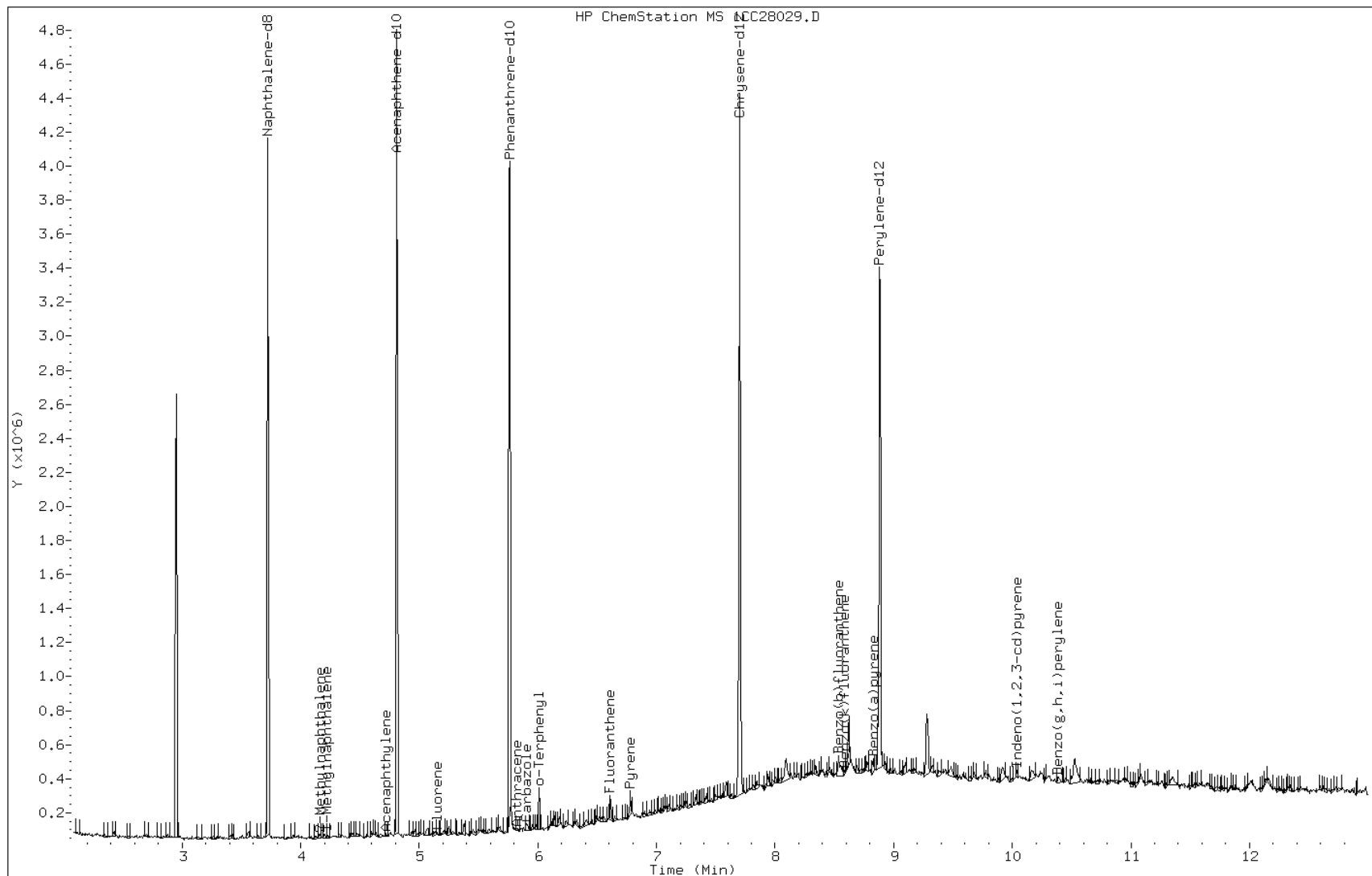
Date: 28-MAR-2013 19:57

Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

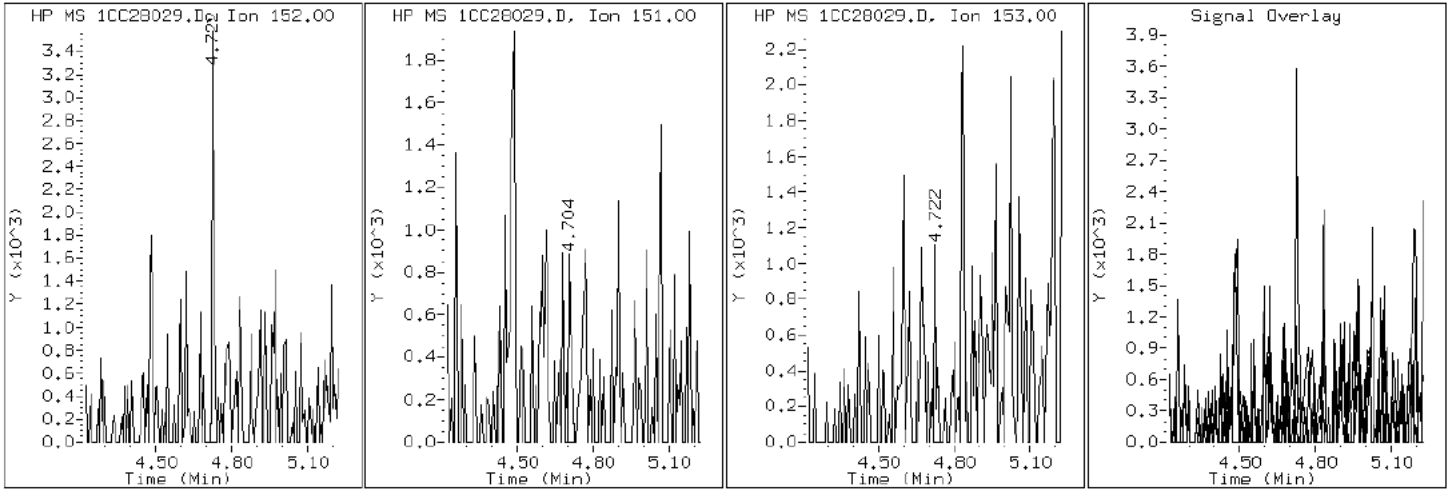
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

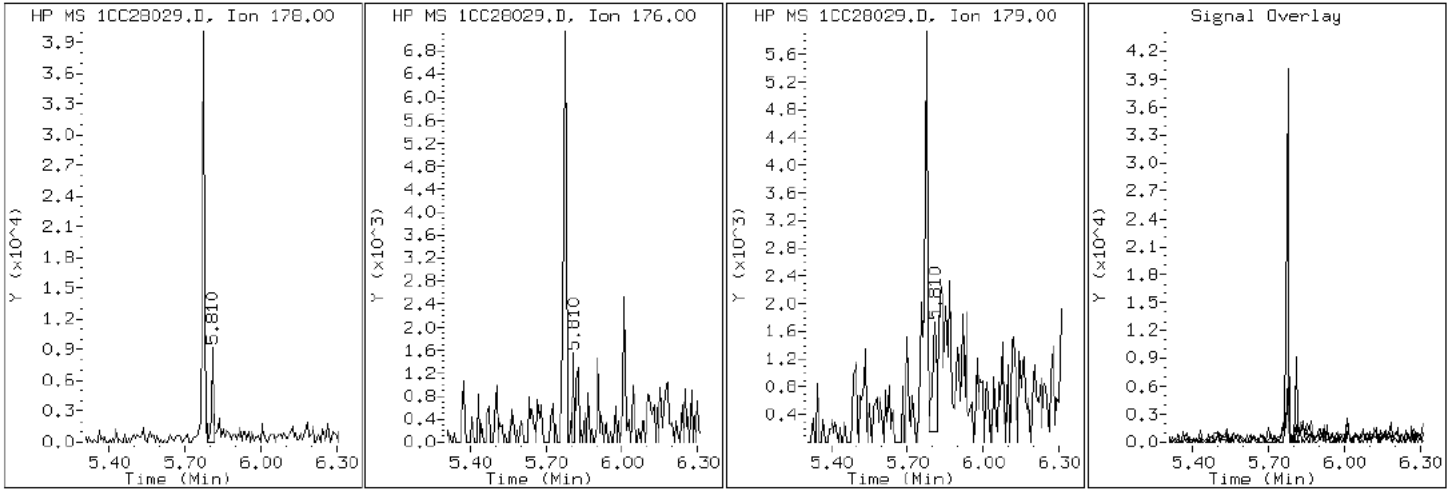
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

12 Anthracene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

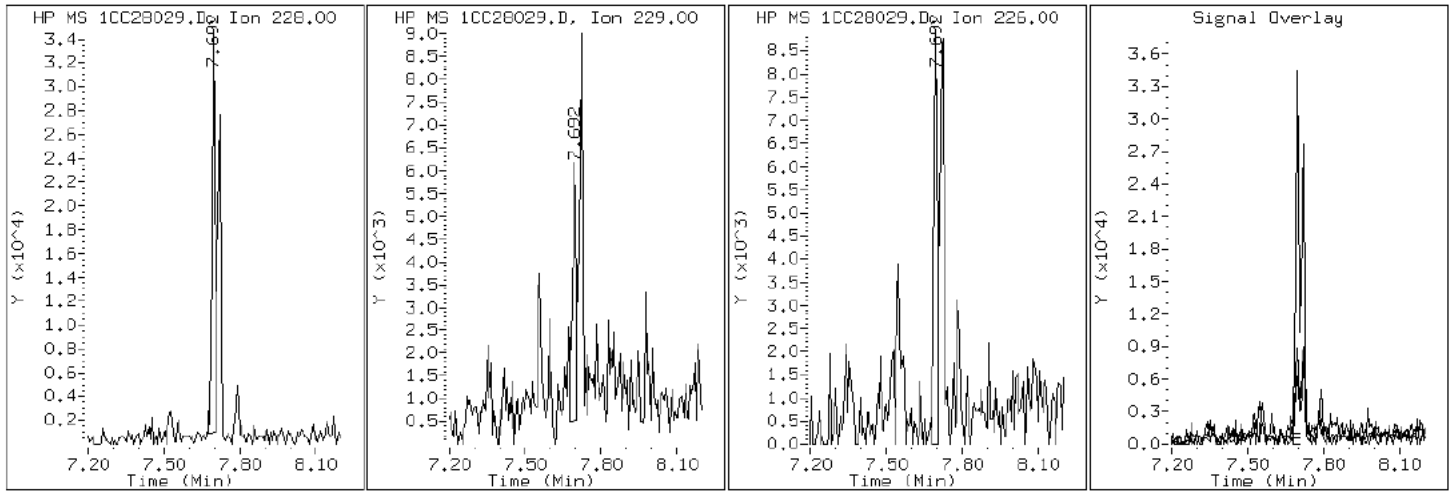
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

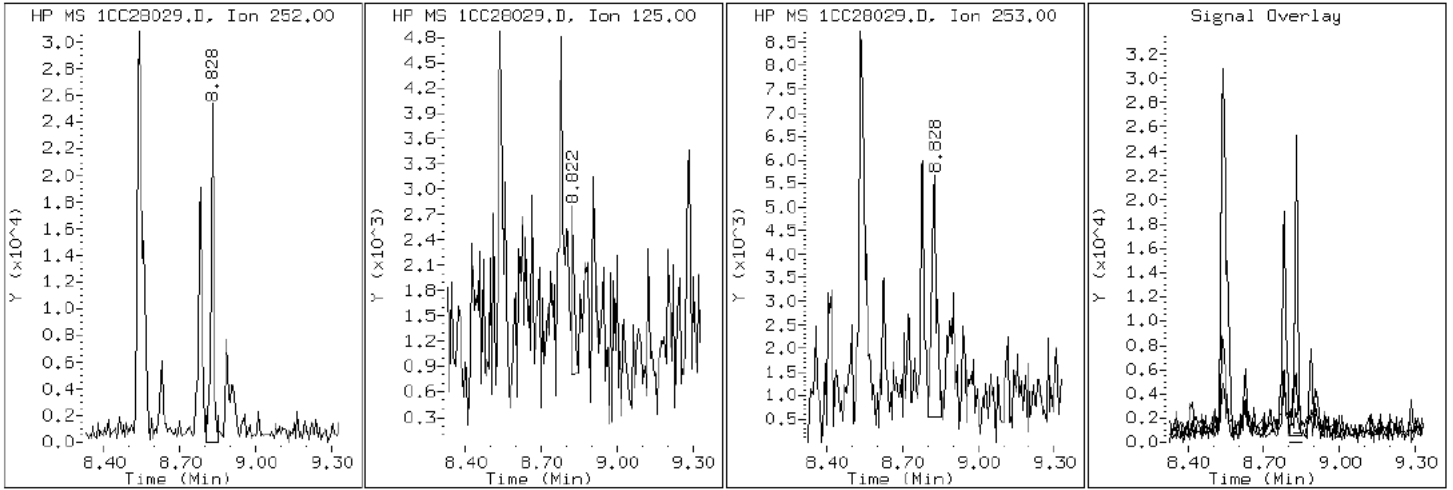
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

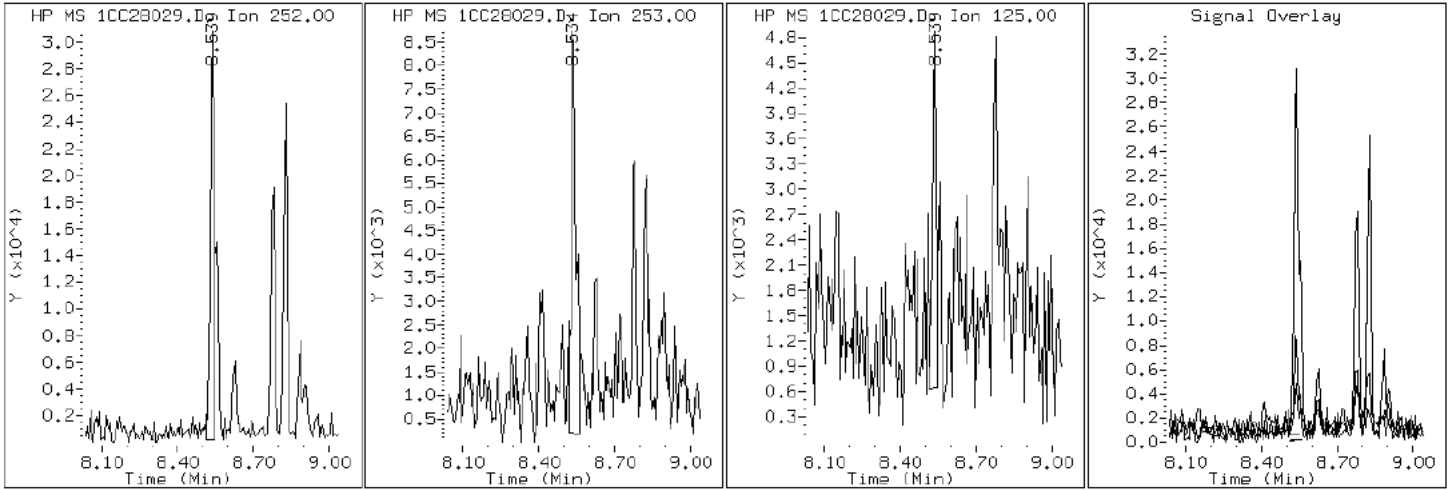
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

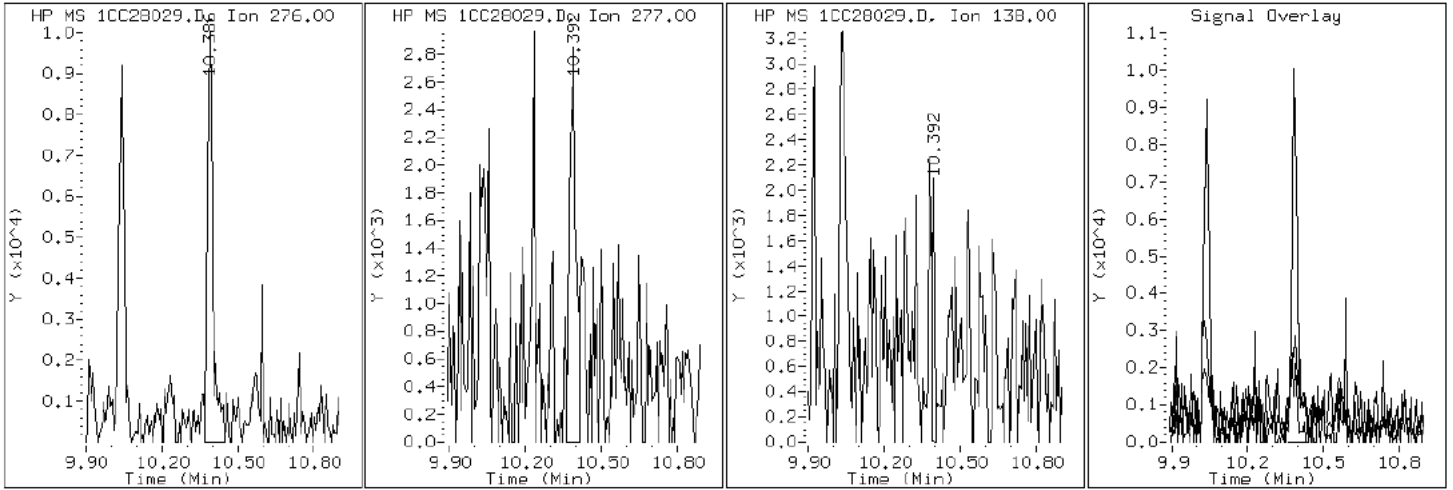
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

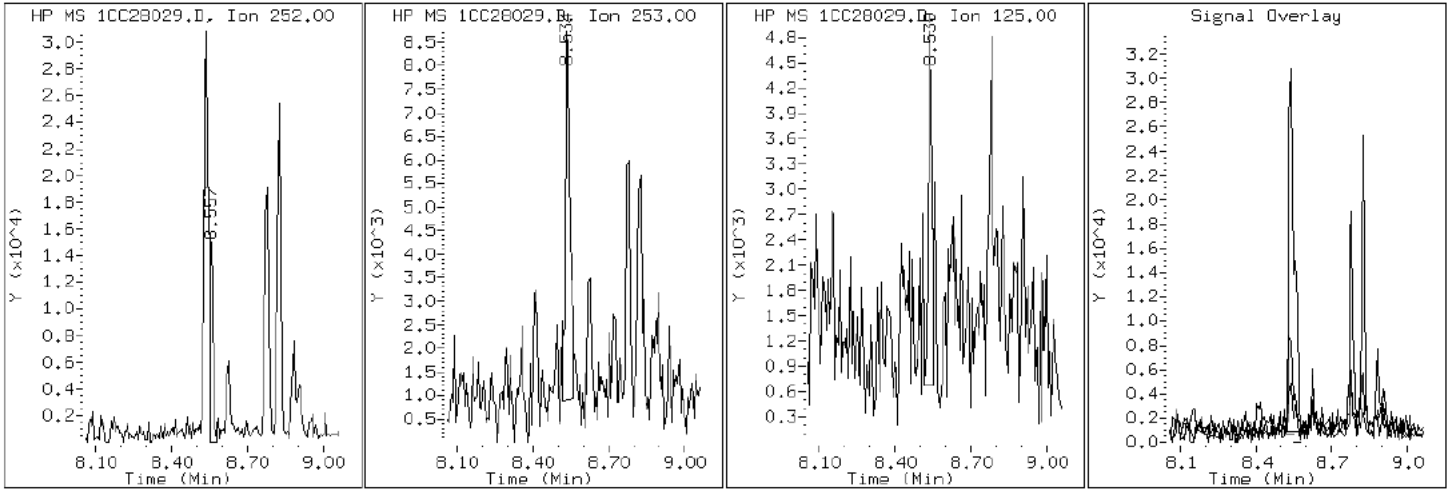
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

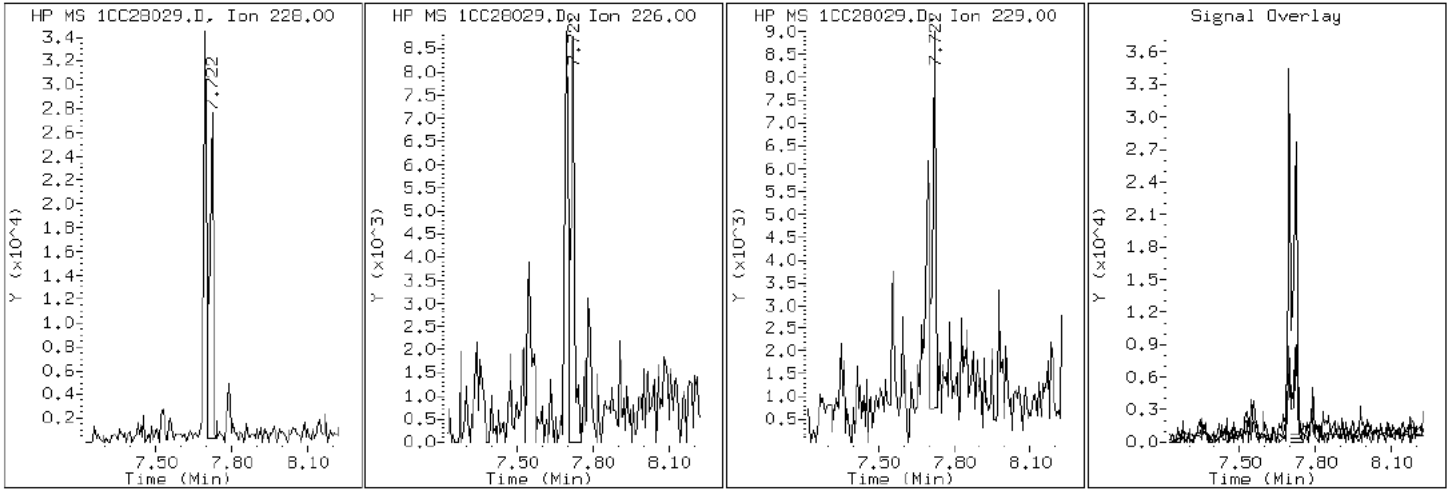
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

19 Chrysene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

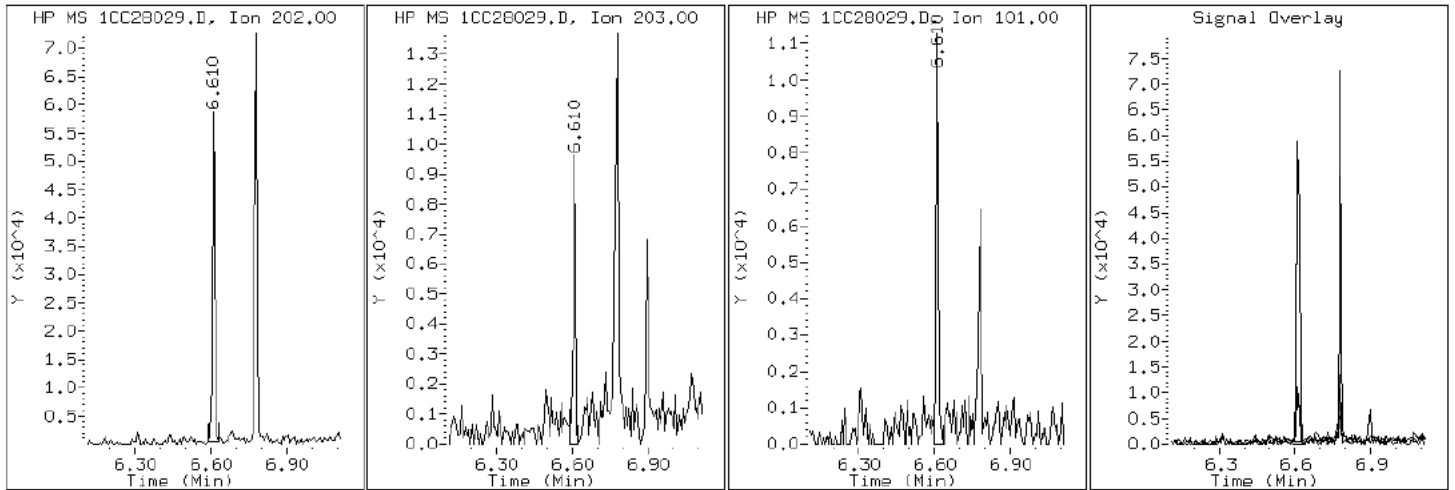
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

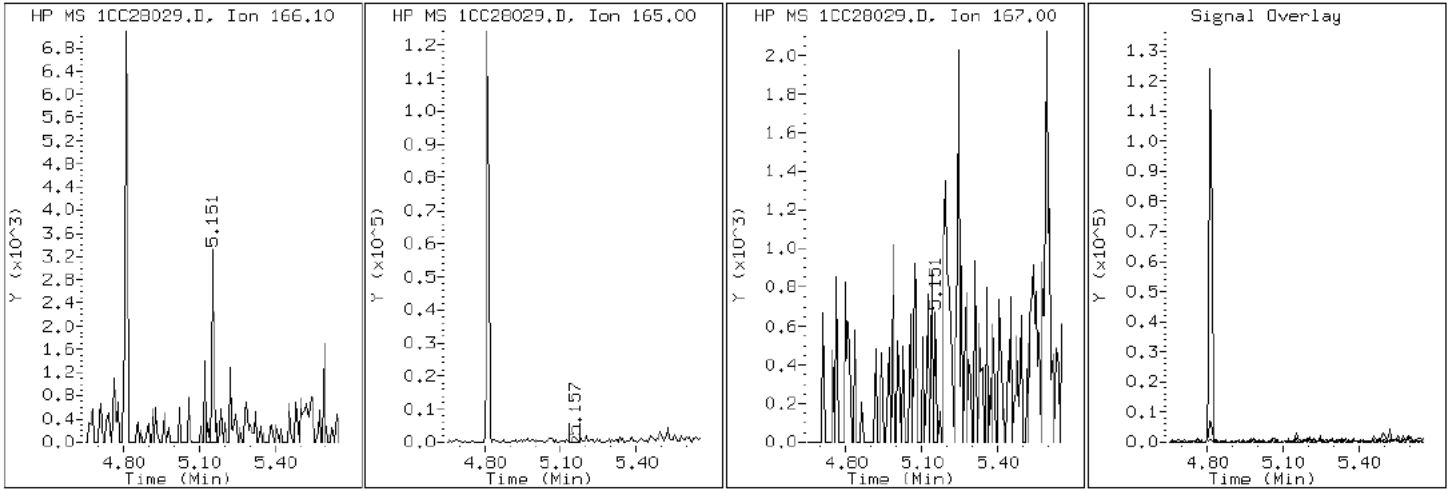
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

9 Fluorene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

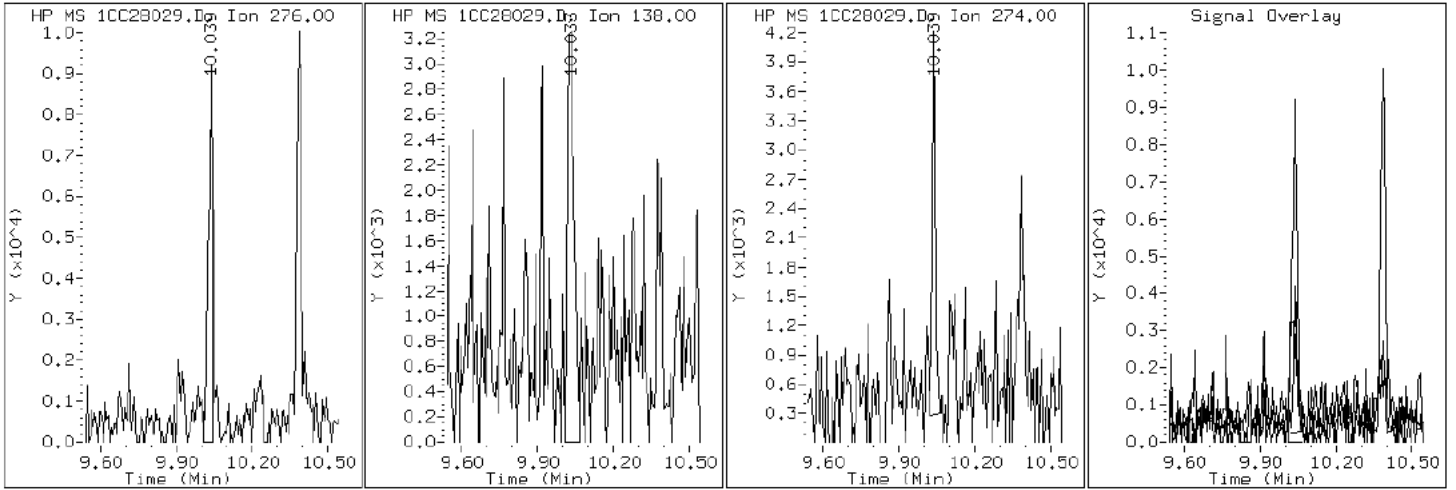
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

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



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

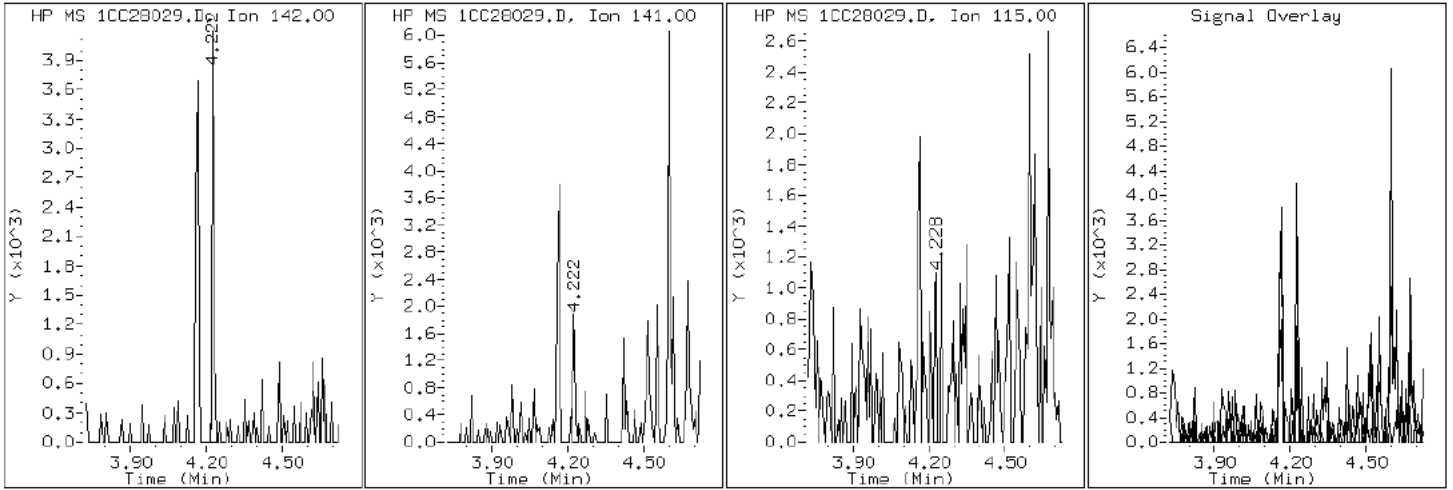
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

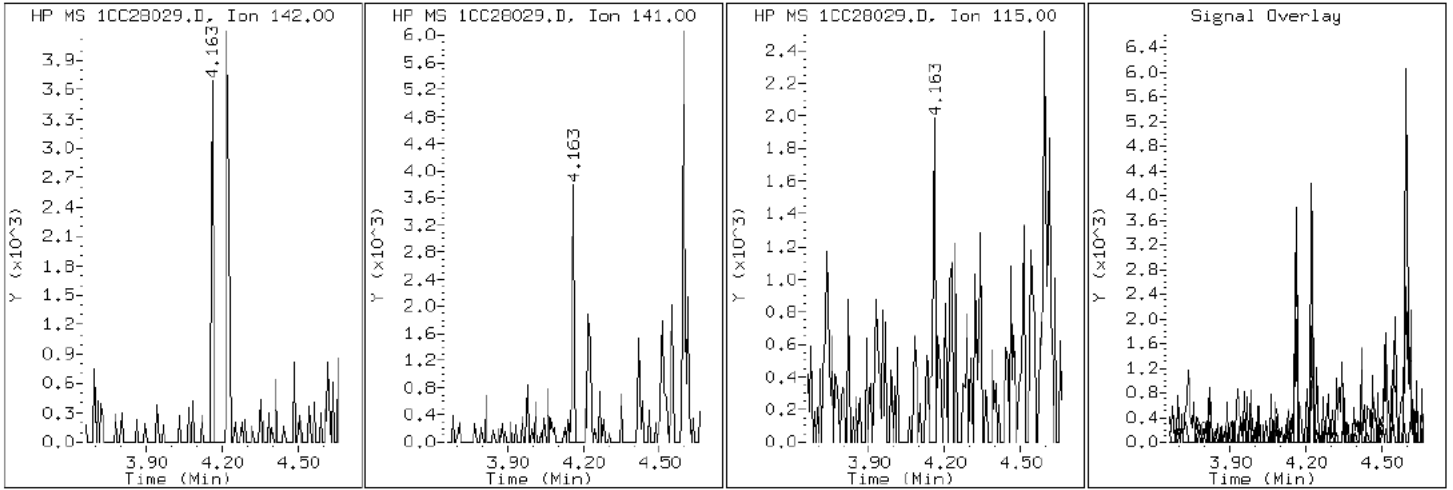
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

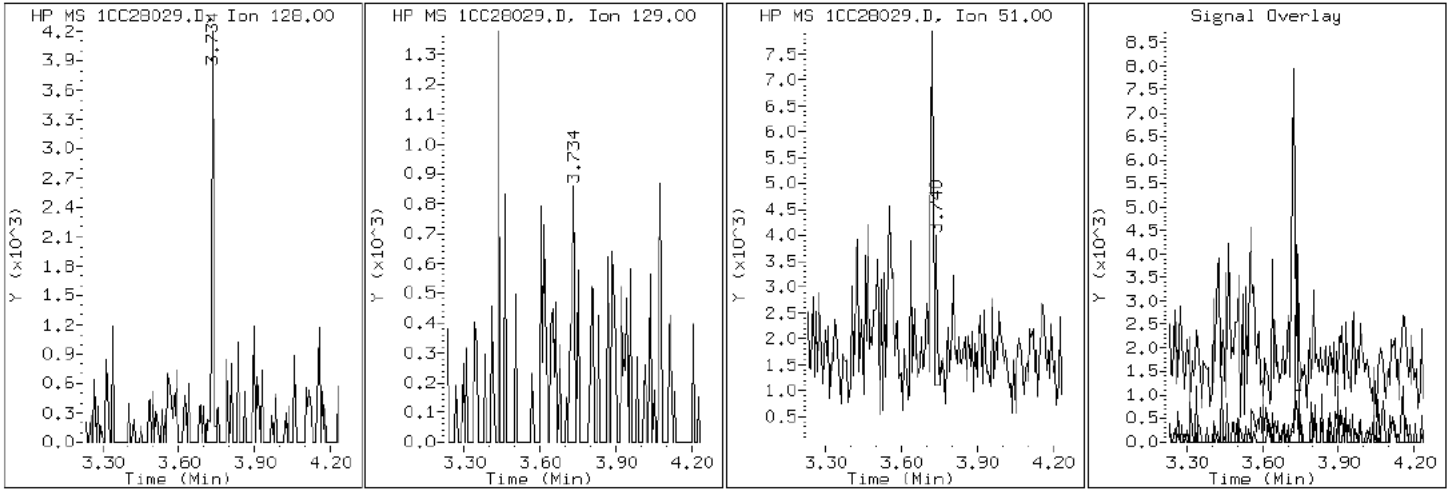
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

2 Naphthalene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

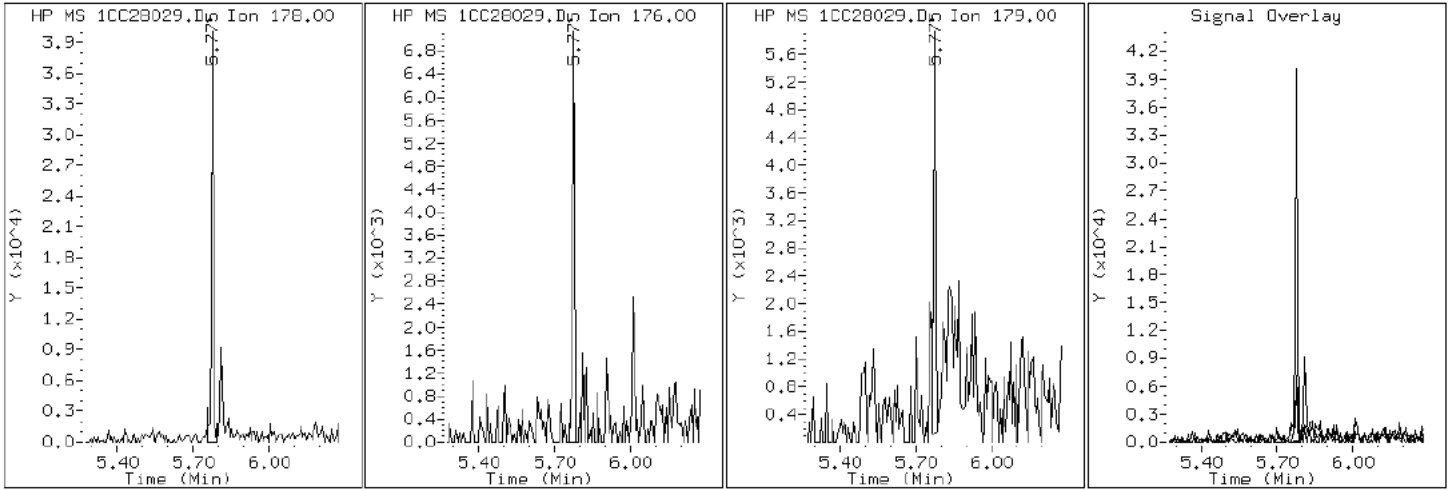
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28029.D

Date: 28-MAR-2013 19:57

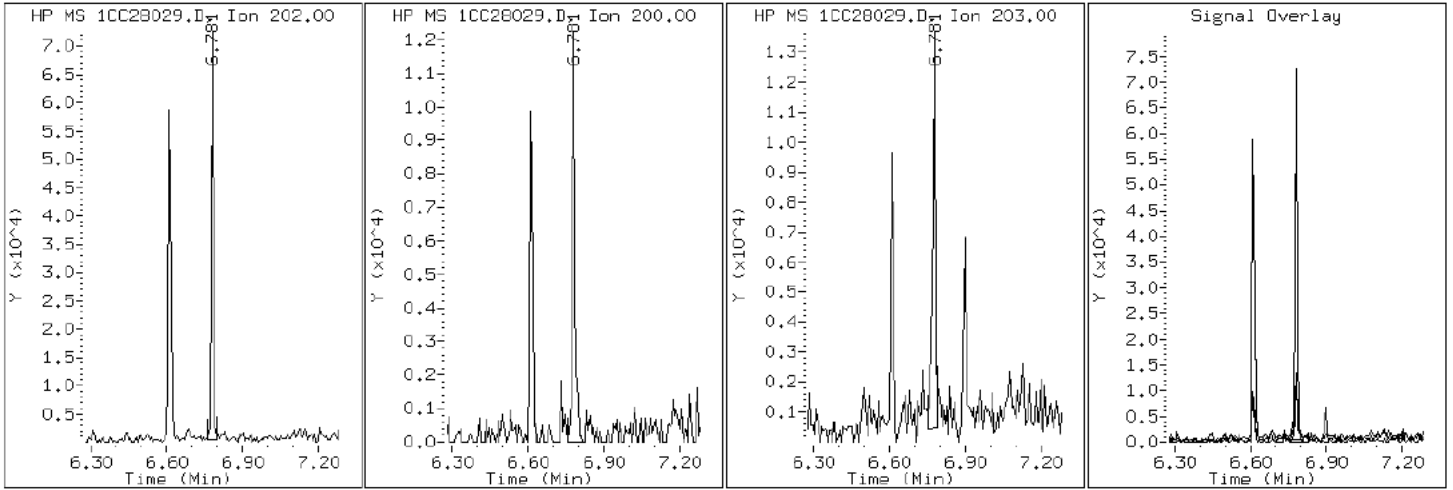
Client ID: CV1328A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-11-a

Operator: SCC

16 Pyrene

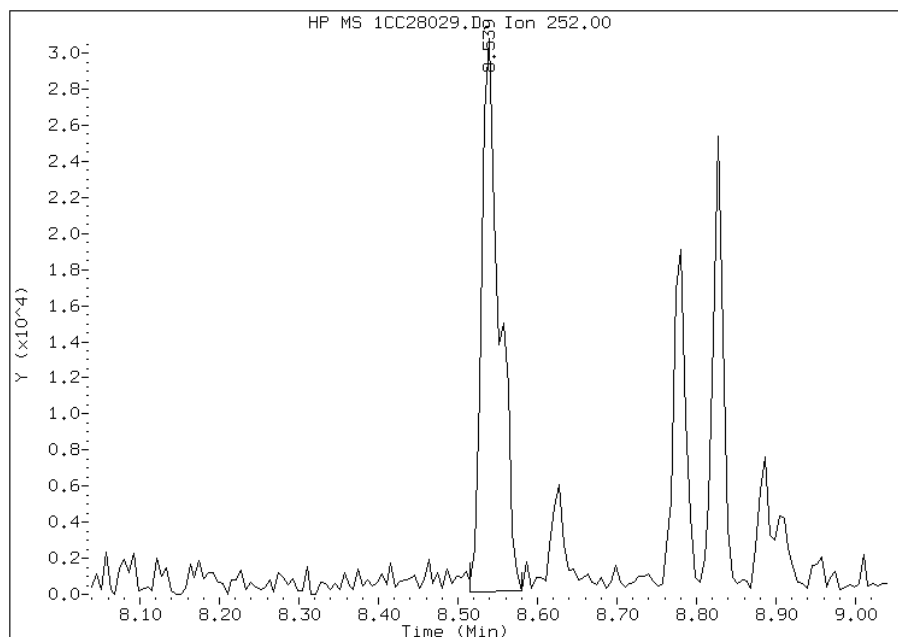


Manual Integration Report

Data File: 1CC28029.D
Inj. Date and Time: 28-MAR-2013 19:57
Instrument ID: BSMC5973.i
Client ID: CV1328A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/01/2013

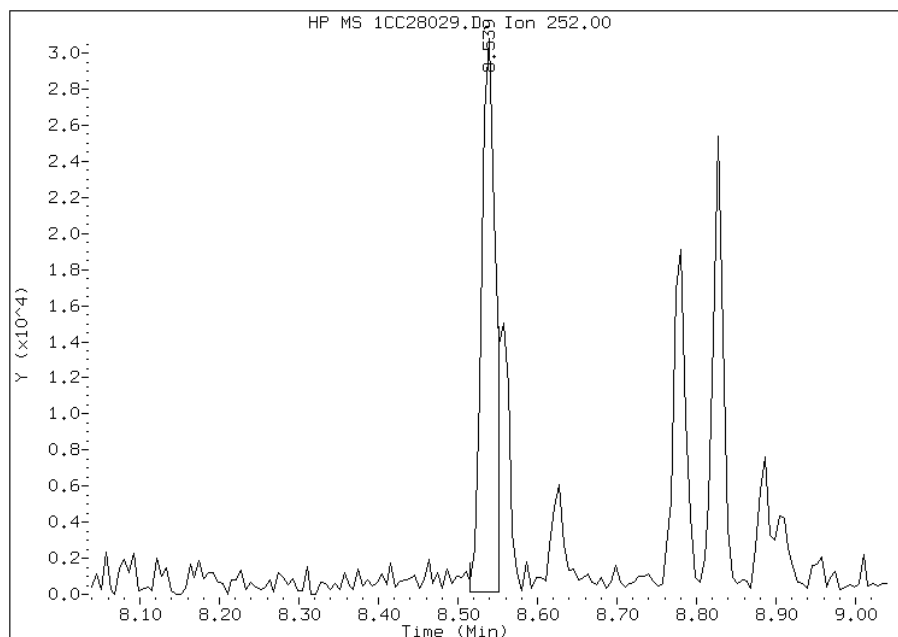
Processing Integration Results

RT: 8.54
Response: 48080
Amount: 2
Conc: 517



Manual Integration Results

RT: 8.54
Response: 37305
Amount: 1
Conc: 401



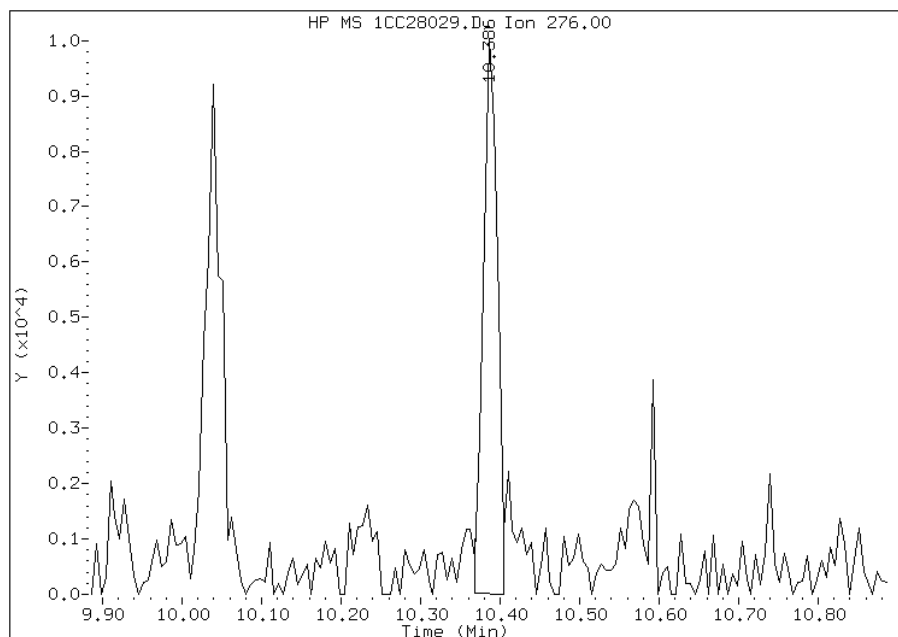
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:43
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC28029.D
Inj. Date and Time: 28-MAR-2013 19:57
Instrument ID: BSMC5973.i
Client ID: CV1328A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/01/2013

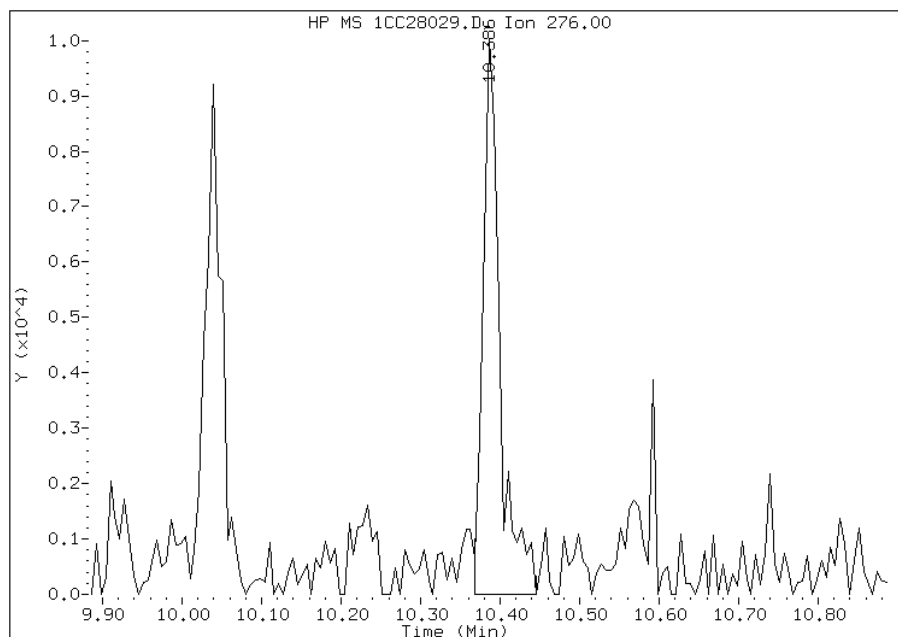
Processing Integration Results

RT: 10.39
Response: 12278
Amount: 0
Conc: 138



Manual Integration Results

RT: 10.39
Response: 14806
Amount: 1
Conc: 167



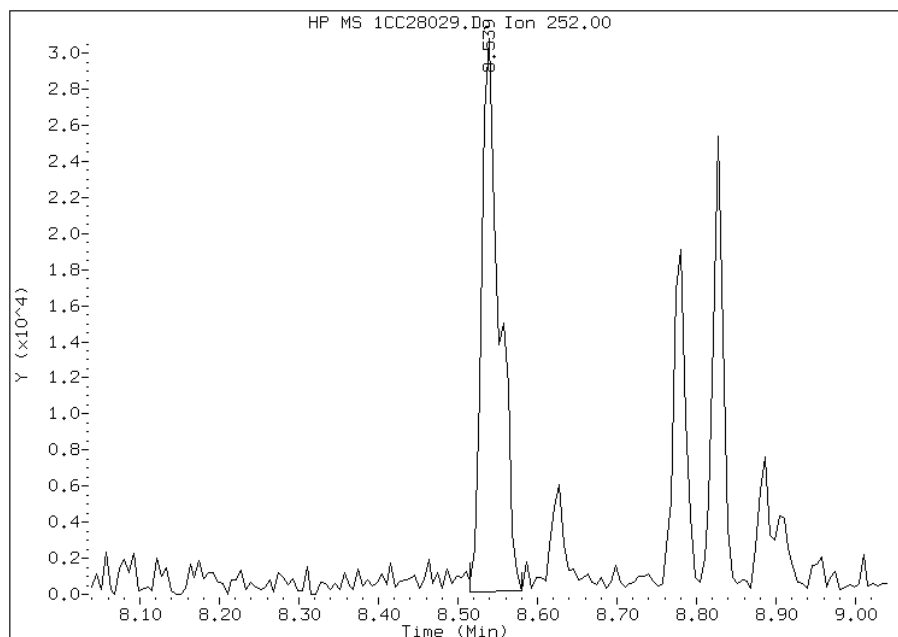
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:44
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28029.D
Inj. Date and Time: 28-MAR-2013 19:57
Instrument ID: BSMC5973.i
Client ID: CV1328A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/01/2013

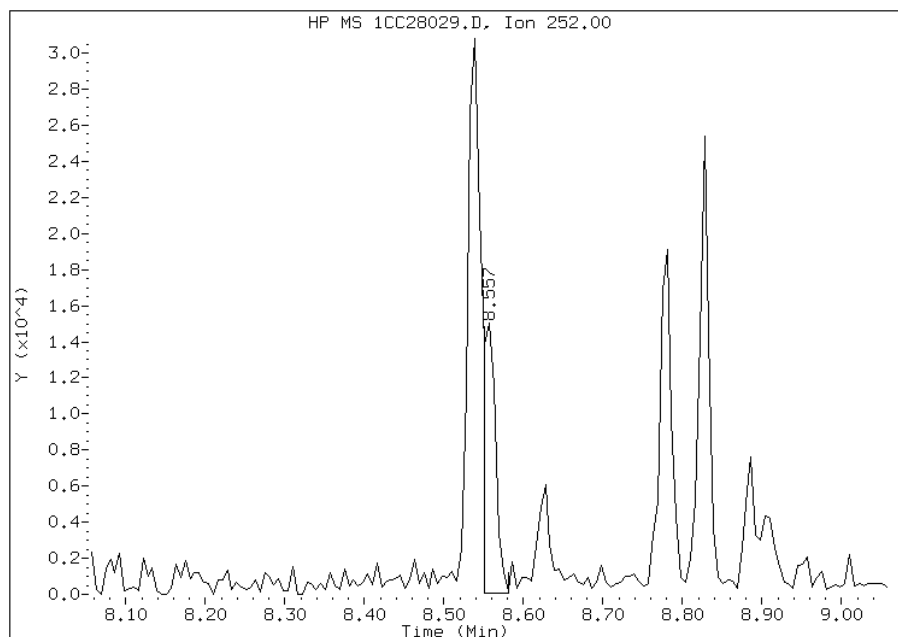
Processing Integration Results

RT: 8.54
Response: 48082
Amount: 2
Conc: 504



Manual Integration Results

RT: 8.56
Response: 15852
Amount: 1
Conc: 166



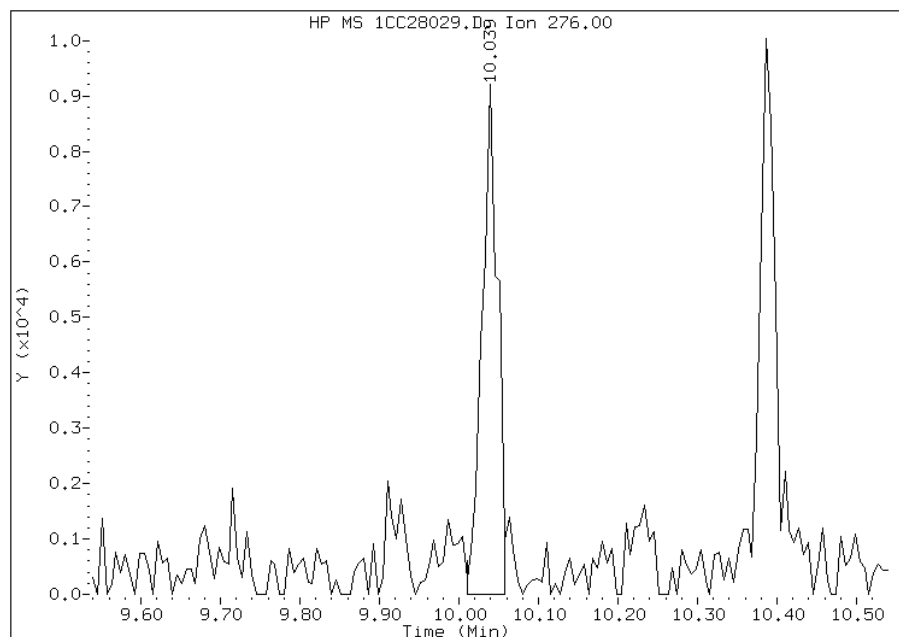
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28029.D
Inj. Date and Time: 28-MAR-2013 19:57
Instrument ID: BSMC5973.i
Client ID: CV1328A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

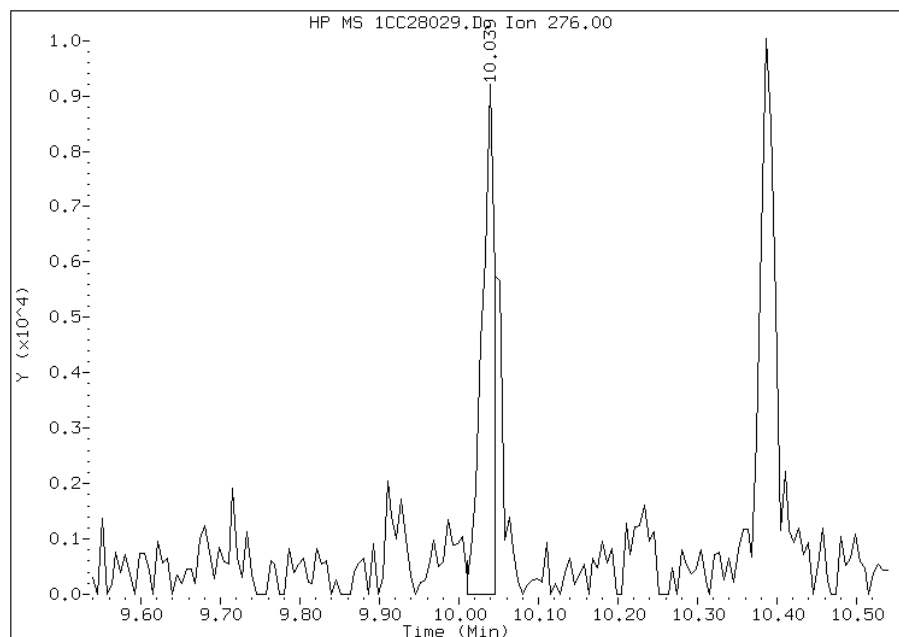
Processing Integration Results

RT: 10.04
Response: 12418
Amount: 0
Conc: 146



Manual Integration Results

RT: 10.04
Response: 10074
Amount: 0
Conc: 119



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:44
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1328B-CS Lab Sample ID: 680-88592-12
 Matrix: Solid Lab File ID: 1CC28030.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 09:10
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.41(g) Date Analyzed: 03/28/2013 20:16
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 23.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	200	U	200	26
120-12-7	Anthracene	34	J	43	21
56-55-3	Benzo[a]anthracene	260		41	20
50-32-8	Benzo[a]pyrene	240		53	27
205-99-2	Benzo[b]fluoranthene	430		62	31
191-24-2	Benzo[g,h,i]perylene	230		100	22
207-08-9	Benzo[k]fluoranthene	200		41	18
218-01-9	Chrysene	300		46	23
53-70-3	Dibenz(a,h)anthracene	70	J	100	21
206-44-0	Fluoranthene	290		100	20
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	160		100	36
90-12-0	1-Methylnaphthalene	100	J	200	22
91-57-6	2-Methylnaphthalene	110	J	200	36
91-20-3	Naphthalene	79	J	200	22
85-01-8	Phenanthrene	170		41	20
129-00-0	Pyrene	240		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	89		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28030.D
 Lab Smp Id: 680-88592-A-12-A Client Smp ID: CV1328B-CS
 Inj Date : 28-MAR-2013 20:16
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-12-a
 Misc Info : 680-88592-A-12-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 30
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.410	Weight Extracted
M	23.784	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.721	3.722	(1.000)	805293	40.0000	
* 6 Acenaphthene-d10	164		4.809	4.810	(1.000)	619002	40.0000	
* 10 Phenanthrene-d10	188		5.762	5.763	(1.000)	1082882	40.0000	
\$ 14 o-Terphenyl	230		6.009	6.010	(1.043)	36214	2.21497	754.3577
* 18 Chrysene-d12	240		7.703	7.704	(1.000)	1244931	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1200339	40.0000	
2 Naphthalene	128		3.733	3.733	(1.003)	4845	0.23110	78.7068(Q)
3 2-Methylnaphthalene	142		4.162	4.163	(1.119)	4690	0.33537	114.2187
4 1-Methylnaphthalene	142		4.221	4.222	(1.134)	3746	0.29412	100.1677
11 Phenanthrene	178		5.774	5.774	(1.002)	15354	0.49035	167.0007
12 Anthracene	178		5.809	5.810	(1.008)	3025	0.09878	33.6423
15 Fluoranthene	202		6.609	6.616	(1.147)	29678	0.86548	294.7606
16 Pyrene	202		6.780	6.780	(0.880)	23175	0.69271	235.9169
17 Benzo(a)anthracene	228		7.692	7.698	(0.998)	27344	0.76101	259.1798

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
19 Chrysene	228	7.721	7.721	(1.002)	31845	0.88561	301.6160
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	40018	1.27571	434.4704
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.963)	19264	0.59863	203.8776(Q)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	21911	0.71910	244.9070
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	13257	0.46250	157.5162(M)
25 Dibenzo(a,h)anthracene	278	10.050	10.062	(1.131)	5727	0.20427	69.5674
26 Benzo(g,h,i)perylene	276	10.386	10.398	(1.169)	20089	0.66998	228.1770

QC Flag Legend

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

Data File: 1CC28030.D

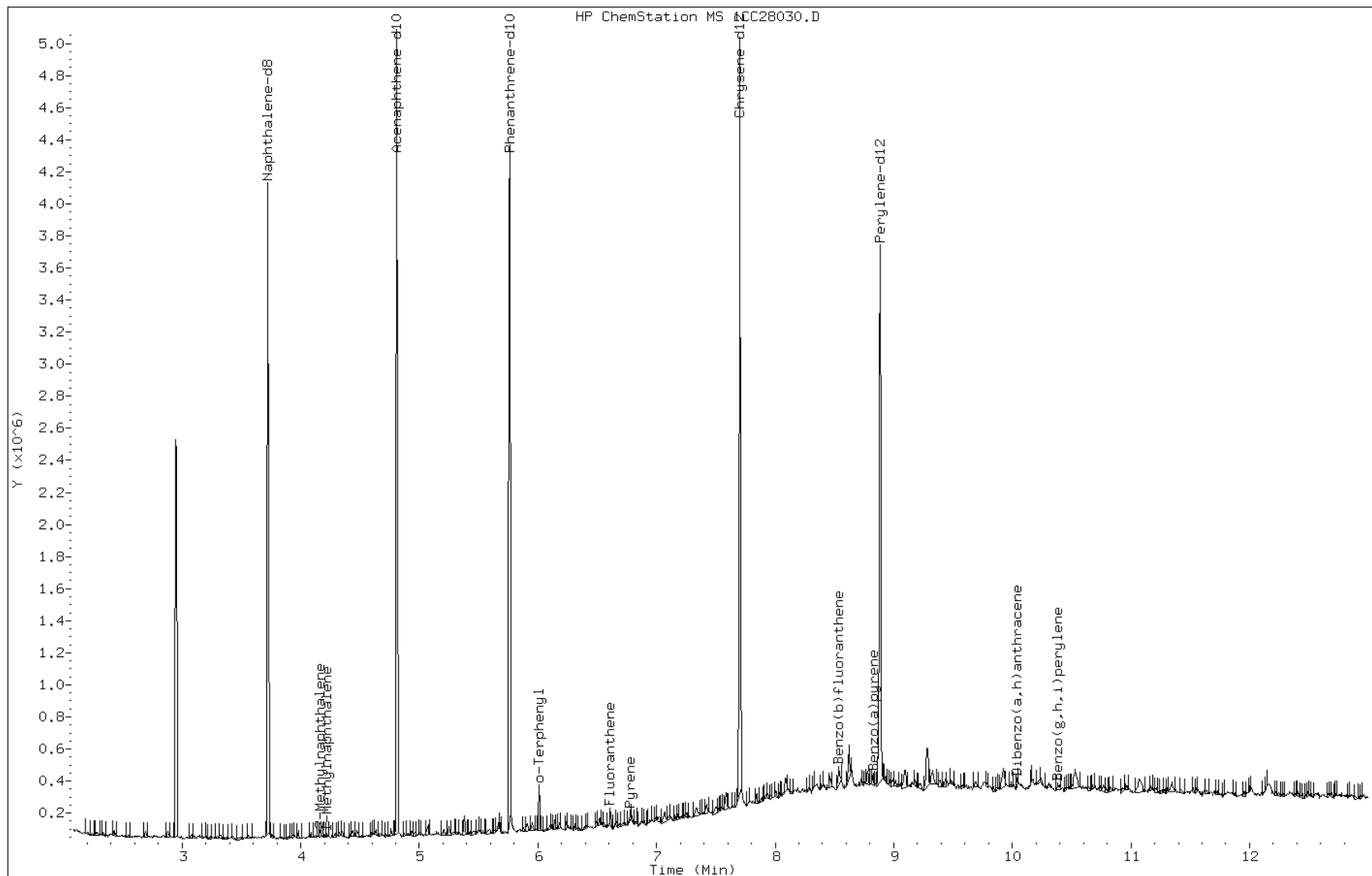
Date: 28-MAR-2013 20:16

Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

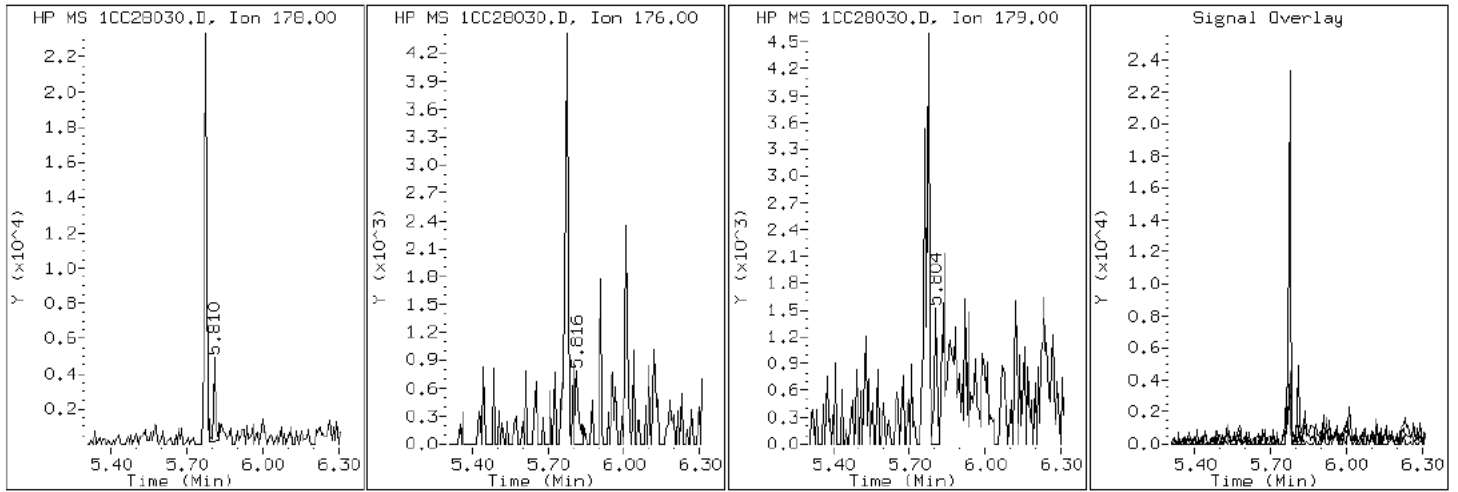
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

12 Anthracene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

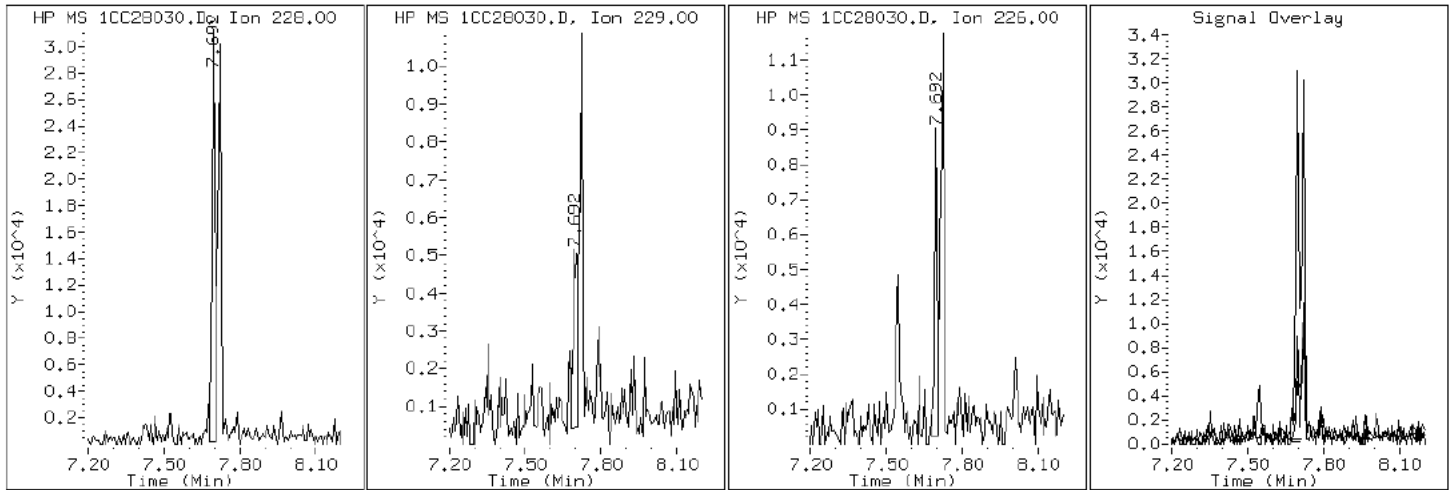
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

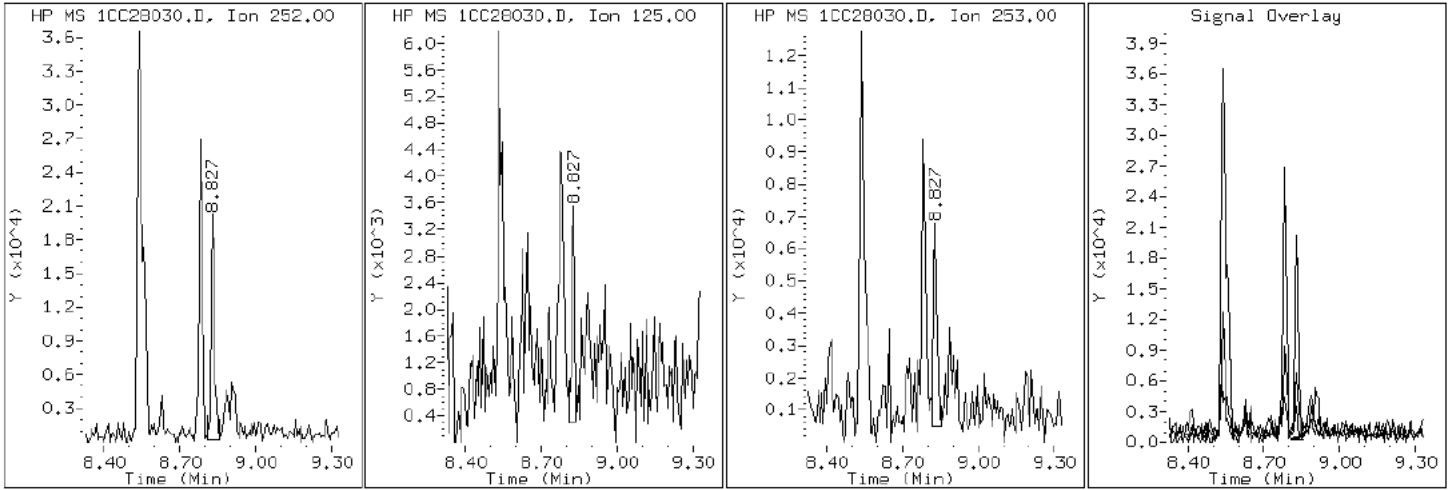
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

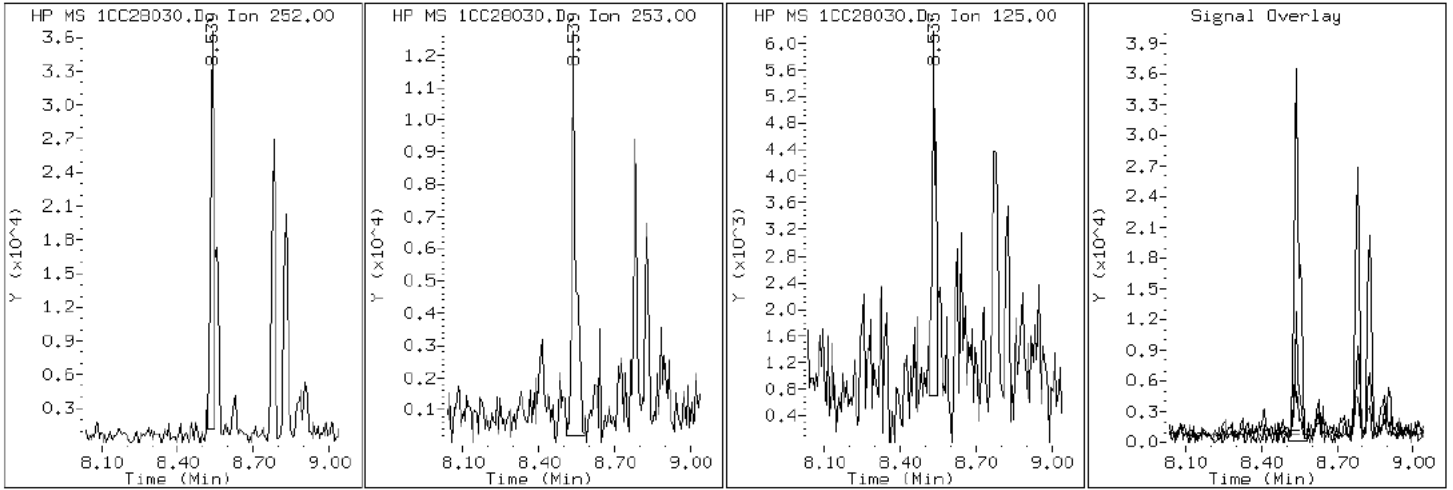
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

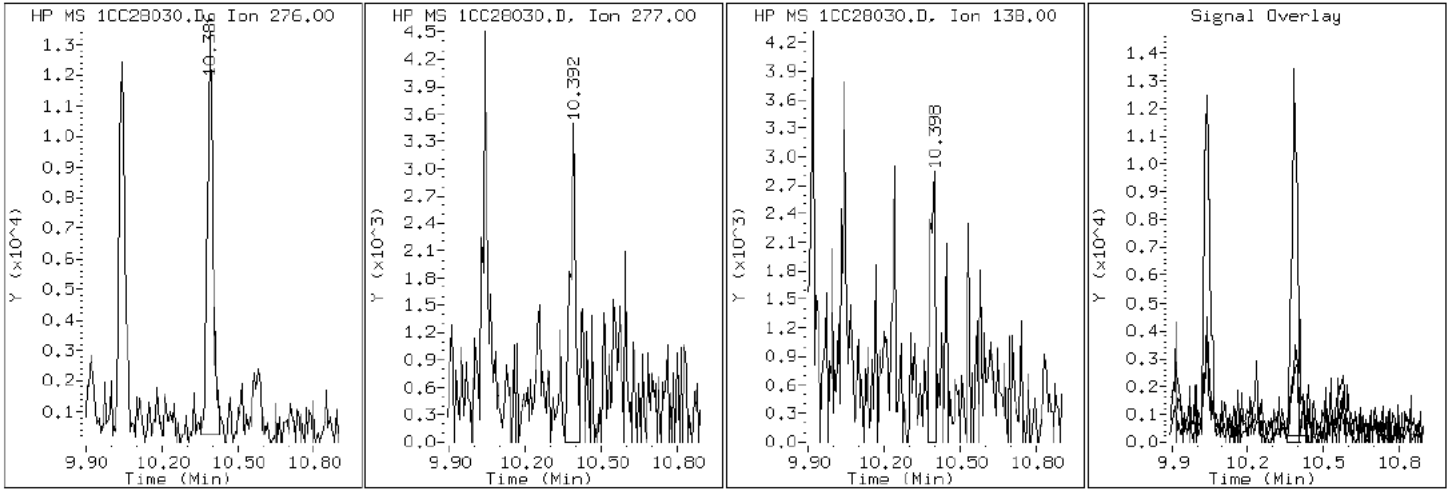
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

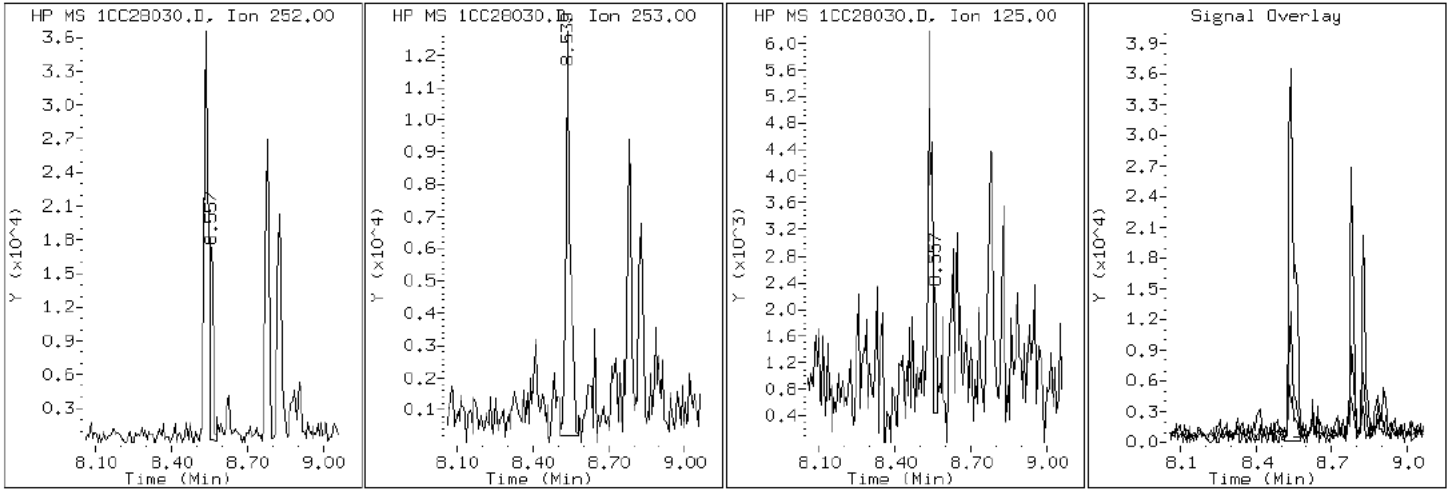
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

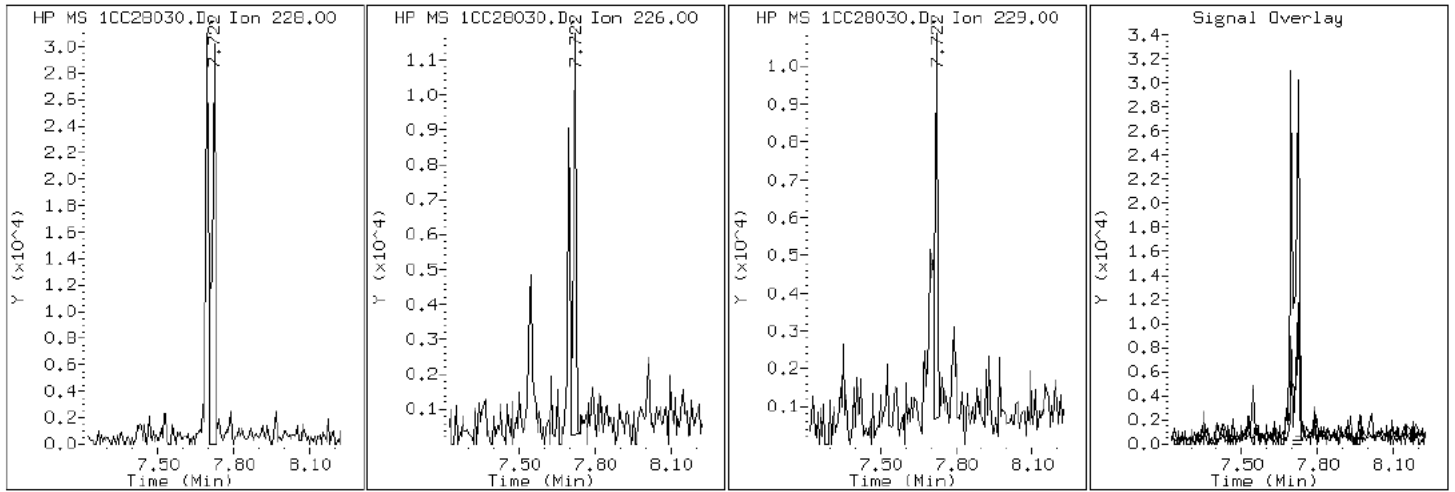
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

19 Chrysene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

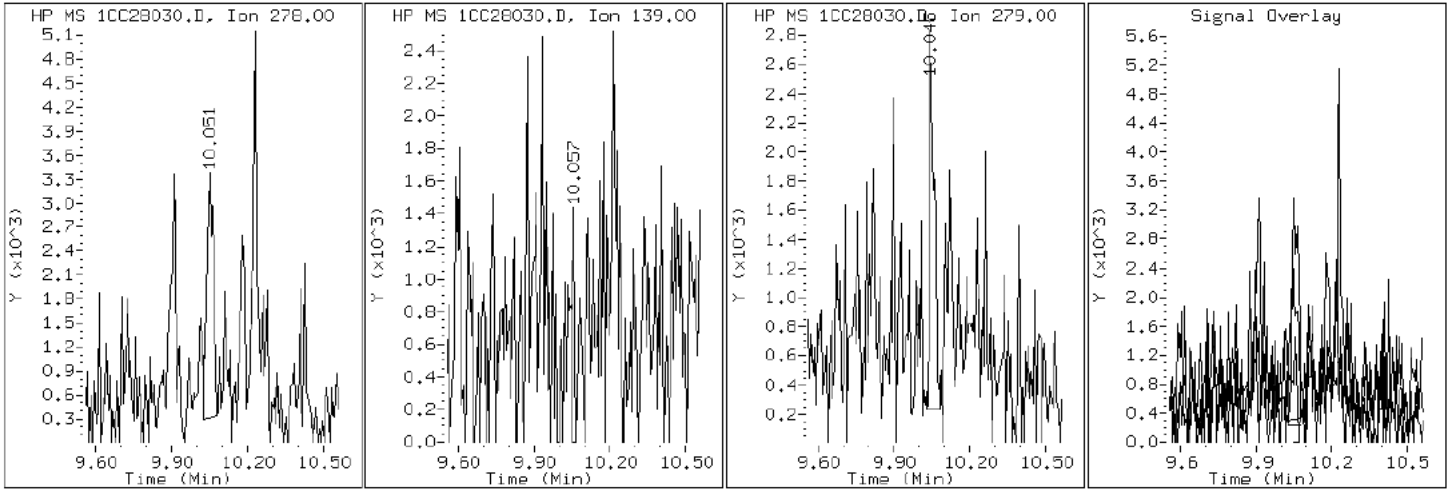
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

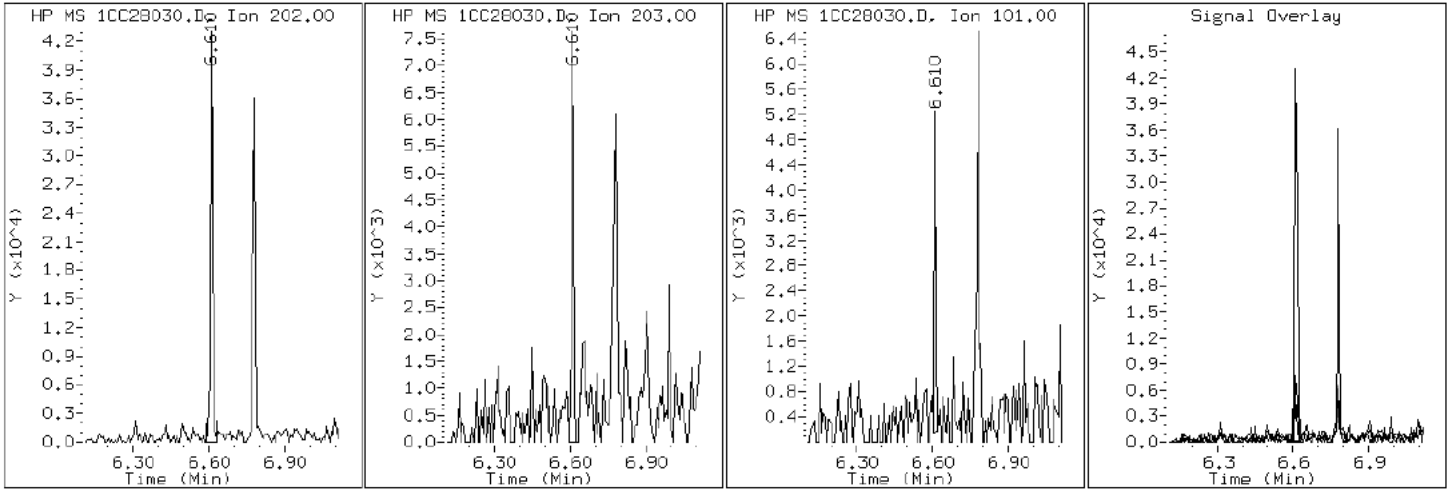
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

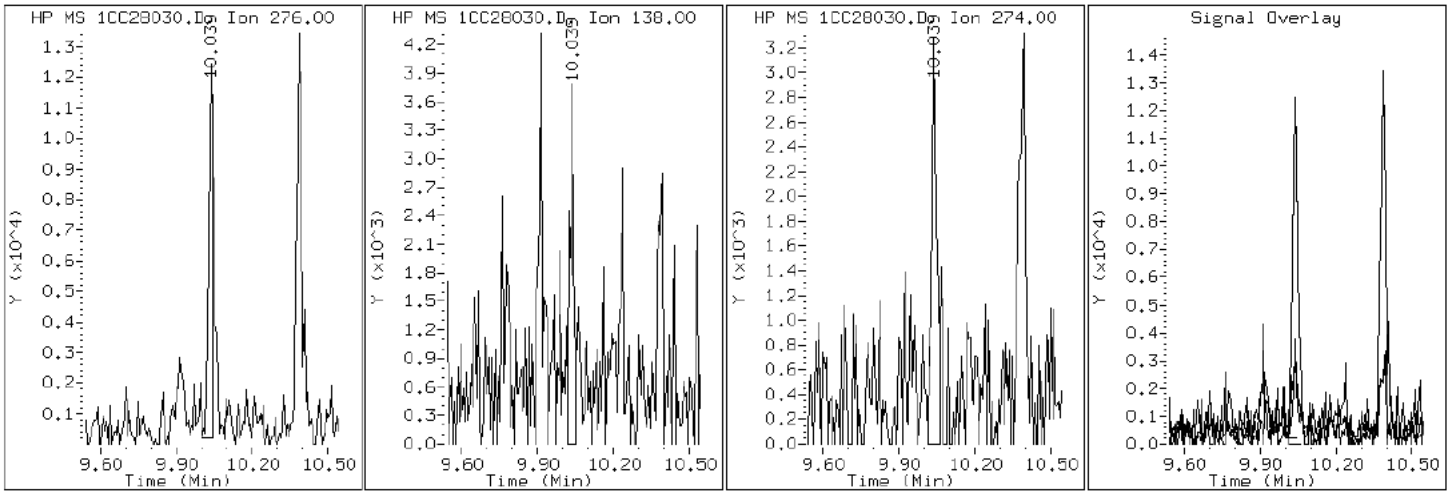
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

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



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

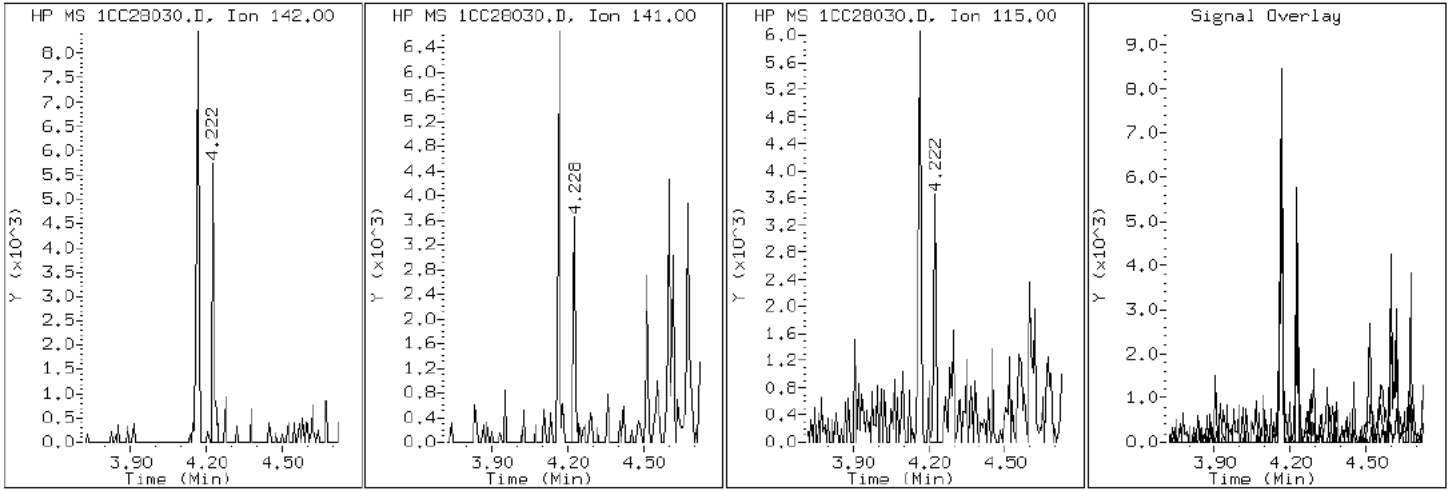
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

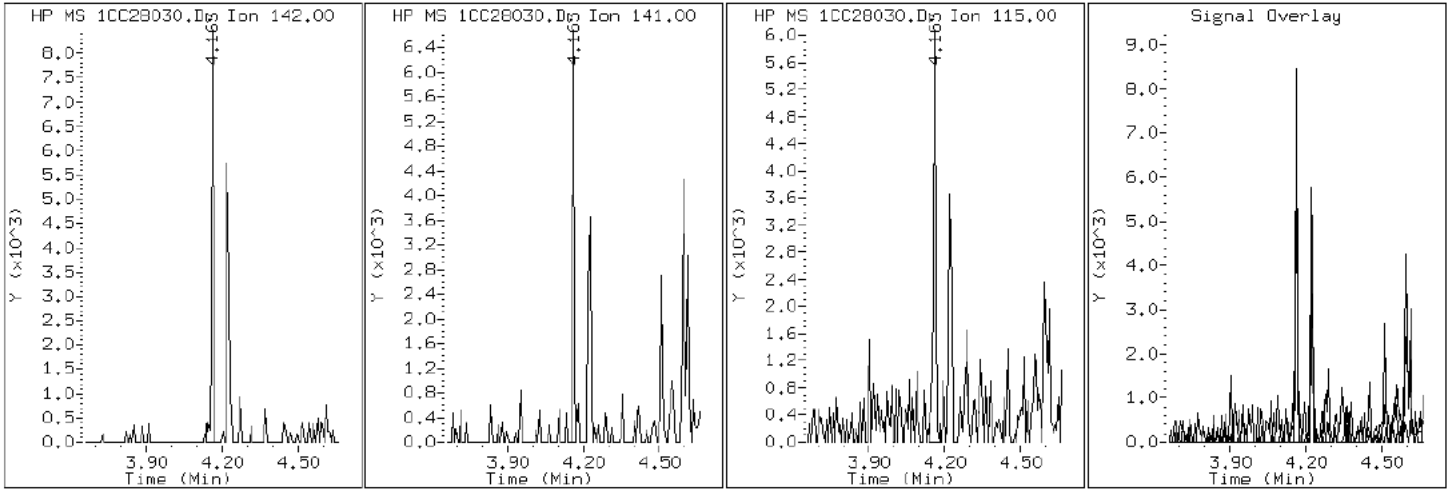
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

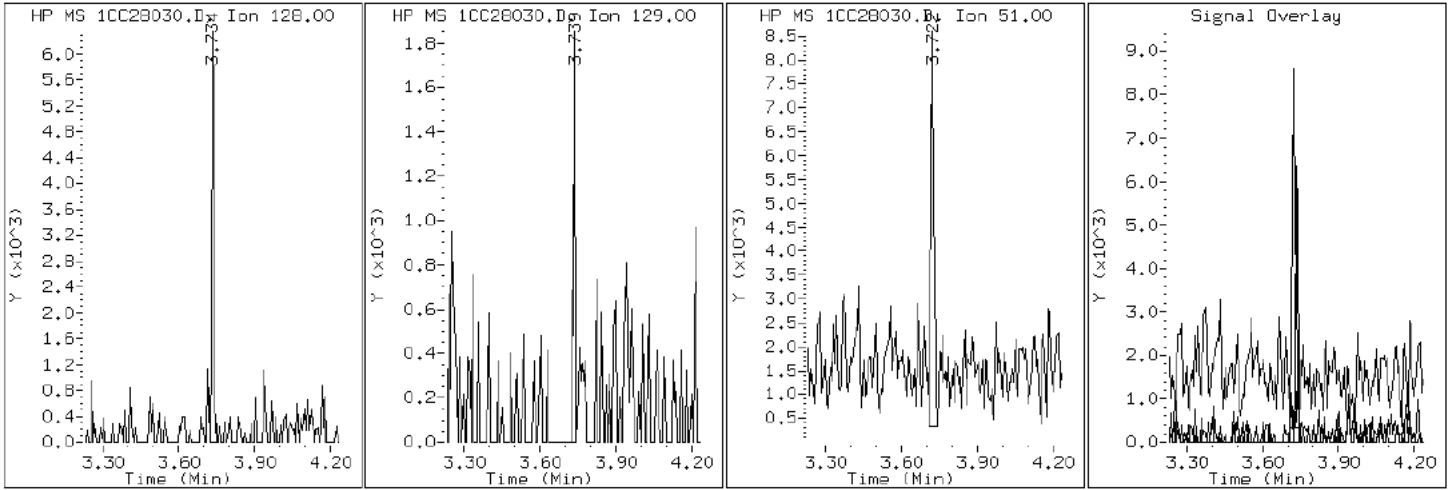
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

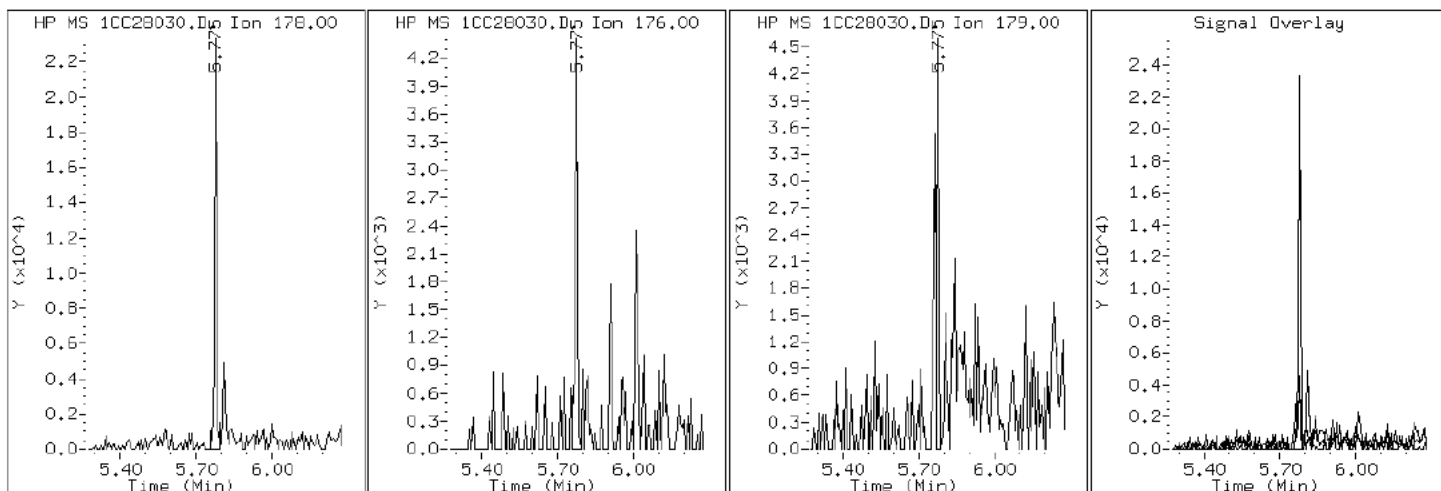
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28030.D

Date: 28-MAR-2013 20:16

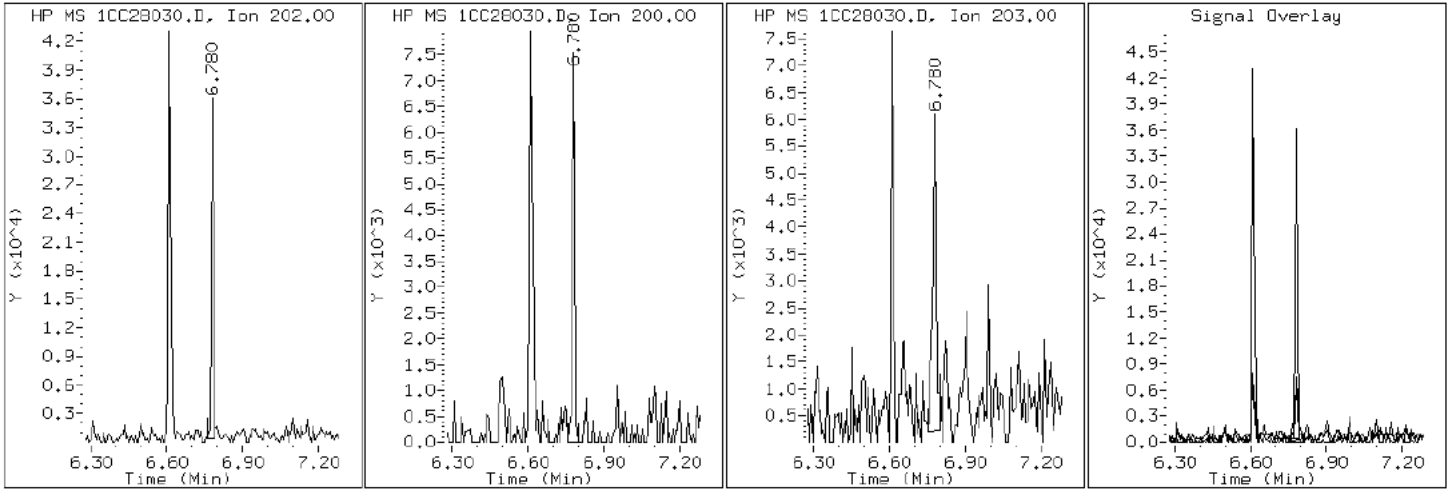
Client ID: CV1328B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-12-a

Operator: SCC

16 Pyrene

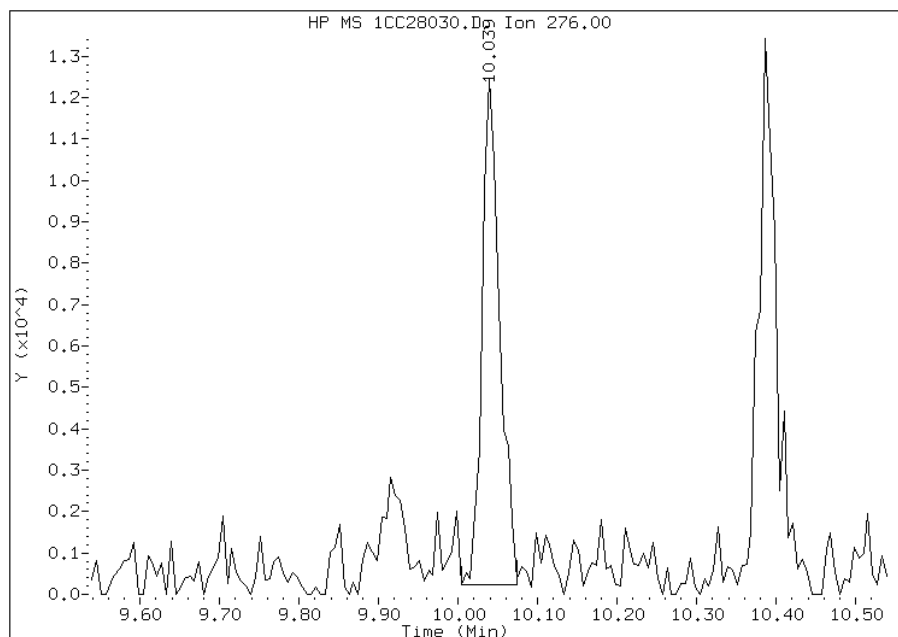


Manual Integration Report

Data File: 1CC28030.D
Inj. Date and Time: 28-MAR-2013 20:16
Instrument ID: BSMC5973.i
Client ID: CV1328B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

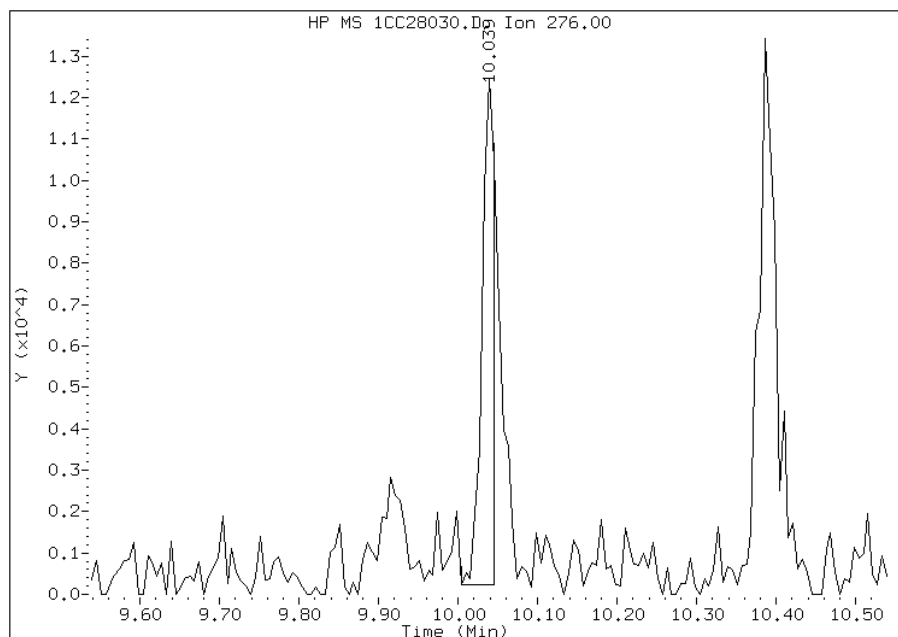
Processing Integration Results

RT: 10.04
Response: 18741
Amount: 1
Conc: 223



Manual Integration Results

RT: 10.04
Response: 13257
Amount: 0
Conc: 158



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:46
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV0101A-CS Lab Sample ID: 680-88592-13
 Matrix: Solid Lab File ID: 1CC28031.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 08:15
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.08(g) Date Analyzed: 03/28/2013 20:34
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 39.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	33
208-96-8	Acenaphthylene	65	U	65	8.1
120-12-7	Anthracene	14	U	14	6.8
56-55-3	Benzo[a]anthracene	33		13	6.4
50-32-8	Benzo[a]pyrene	25		17	8.5
205-99-2	Benzo[b]fluoranthene	38		20	9.9
191-24-2	Benzo[g,h,i]perylene	22	J	33	7.2
207-08-9	Benzo[k]fluoranthene	19		13	5.9
218-01-9	Chrysene	48		15	7.3
53-70-3	Dibenz(a,h)anthracene	9.2	J	33	6.7
206-44-0	Fluoranthene	45		33	6.5
86-73-7	Fluorene	33	U	33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	16	J	33	12
90-12-0	1-Methylnaphthalene	59	J	65	7.2
91-57-6	2-Methylnaphthalene	67		65	12
91-20-3	Naphthalene	72		65	7.2
85-01-8	Phenanthrene	53		13	6.4
129-00-0	Pyrene	40		33	6.0

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28031.D
 Lab Smp Id: 680-88592-A-13-A Client Smp ID: CV0101A-CS
 Inj Date : 28-MAR-2013 20:34
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-13-a
 Misc Info : 680-88592-A-13-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 31
 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	15.080	Weight Extracted
M	38.967	% 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		3.722	3.722	(1.000)	995934	40.0000		
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	784118	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.763	(1.000)	1427357	40.0000		
\$ 14 o-Terphenyl	230		6.010	6.010	(1.043)	132793	6.16190	669.4984	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1552451	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1514028	40.0000		
2 Naphthalene	128		3.733	3.733	(1.003)	17252	0.66538	72.2947(Q)	
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	10663	0.61653	66.9872	
4 1-Methylnaphthalene	142		4.222	4.222	(1.134)	8561	0.54350	59.0517	
11 Phenanthrene	178		5.774	5.774	(1.002)	19962	0.48366	52.5502	
15 Fluoranthene	202		6.610	6.616	(1.147)	18730	0.41439	45.0242	
16 Pyrene	202		6.780	6.780	(0.880)	15389	0.36886	40.0776	
17 Benzo(a)anthracene	228		7.698	7.698	(0.999)	13638	0.30437	33.0706	
19 Chrysene	228		7.721	7.721	(1.002)	19783	0.44119	47.9355	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	====	====	=====	=====	=====	=====	=====
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	13764	0.34786	37.7958(M)
21 Benzo(k)fluoranthene	252	8.551	8.562	(0.962)	6915	0.17036	18.5101(QM)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	8704	0.22647	24.6066(Q)
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	5404	0.14947	16.2401(MH)
25 Dibenzo(a,h)anthracene	278	10.051	10.062	(1.131)	3002	0.08489	9.2232
26 Benzo(g,h,i)perylene	276	10.392	10.398	(1.169)	7693	0.20341	22.1006(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: 1CC28031.D

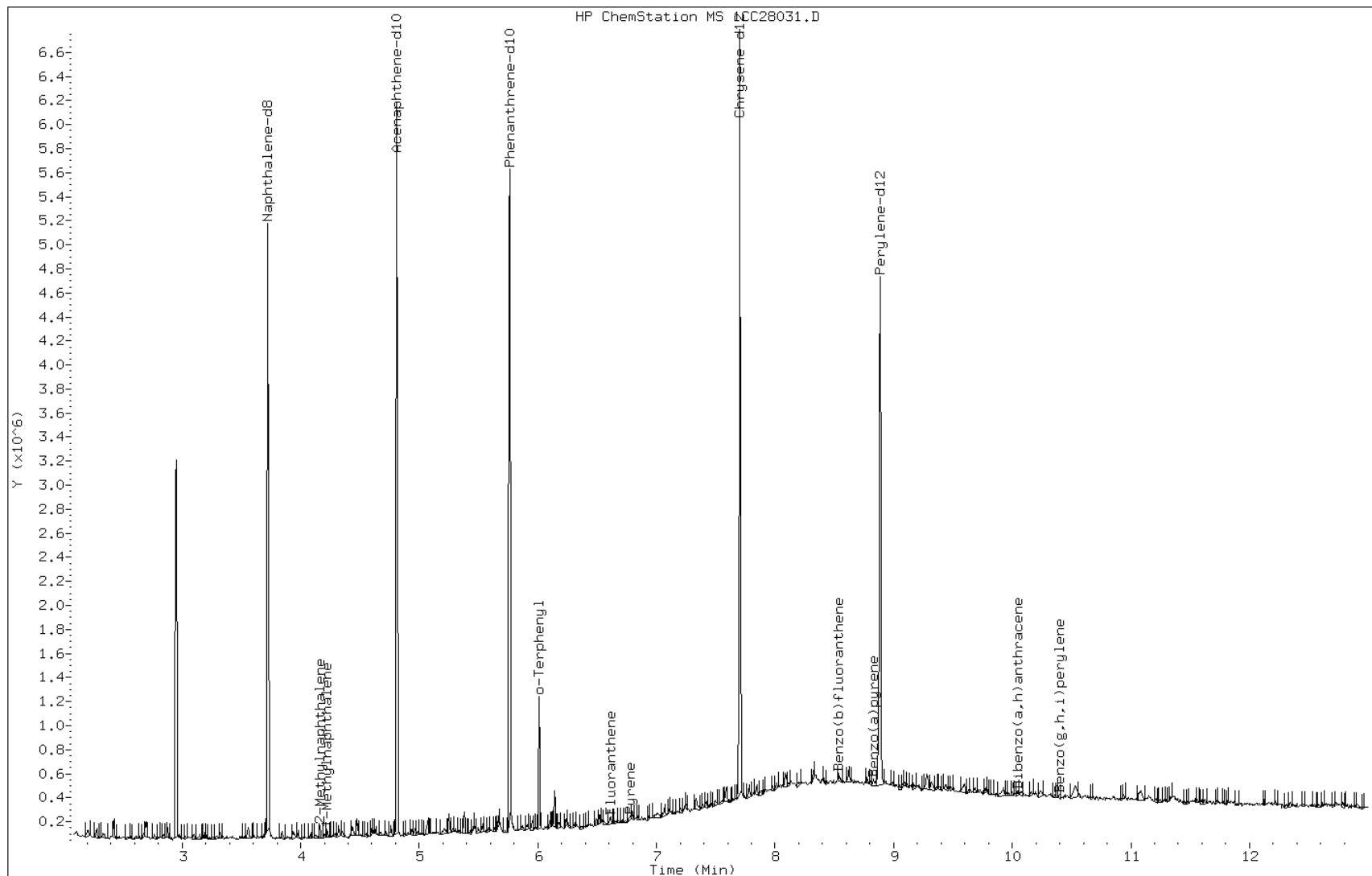
Date: 28-MAR-2013 20:34

Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

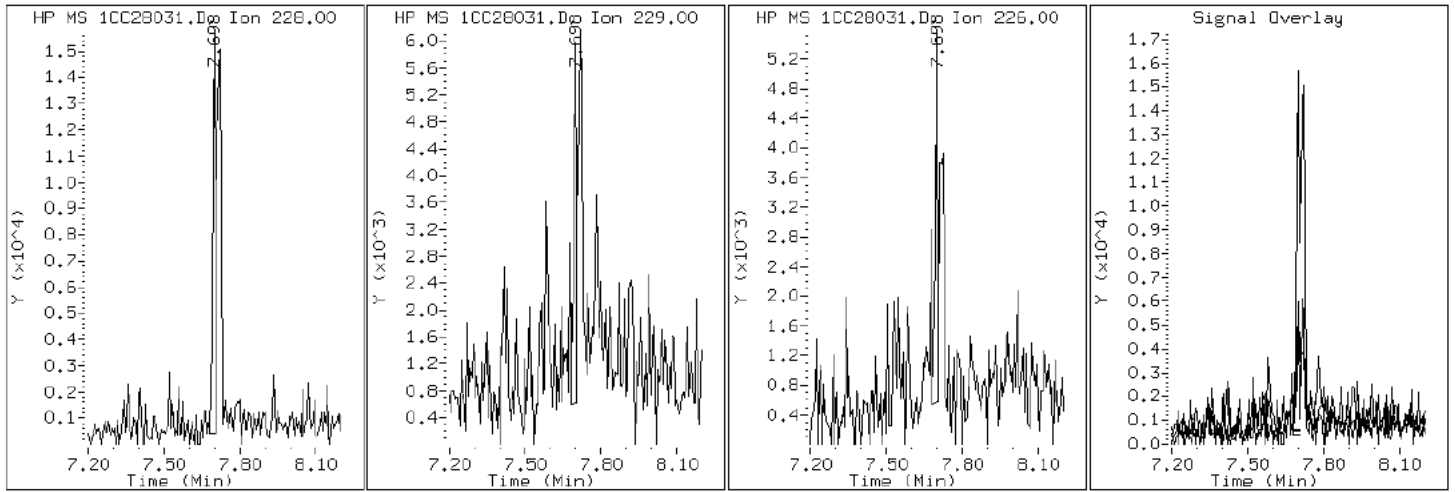
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

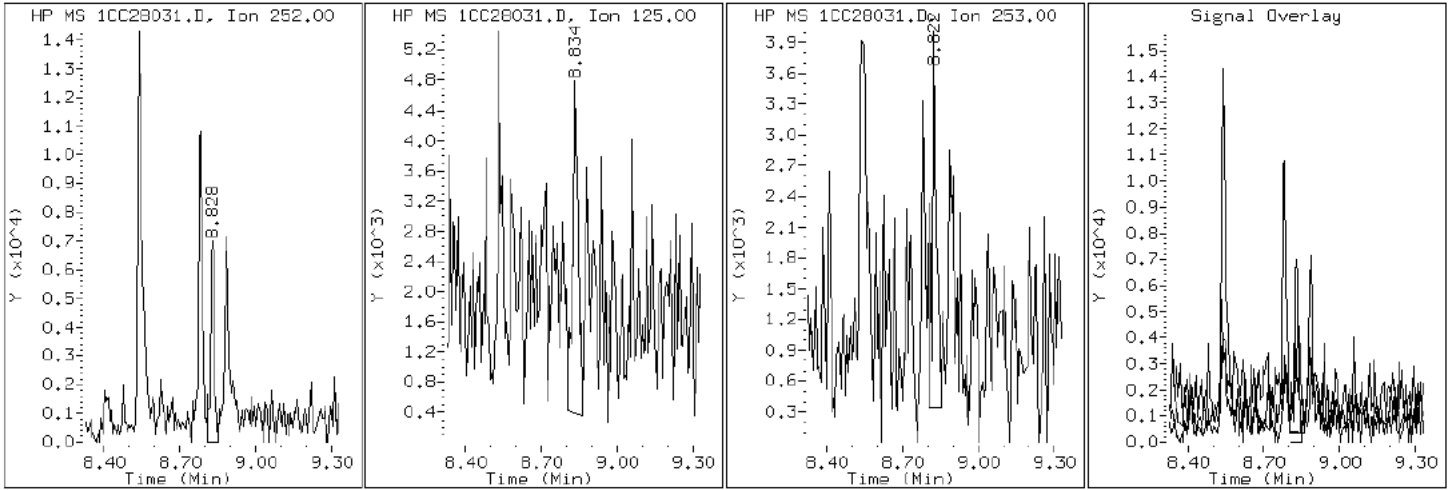
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

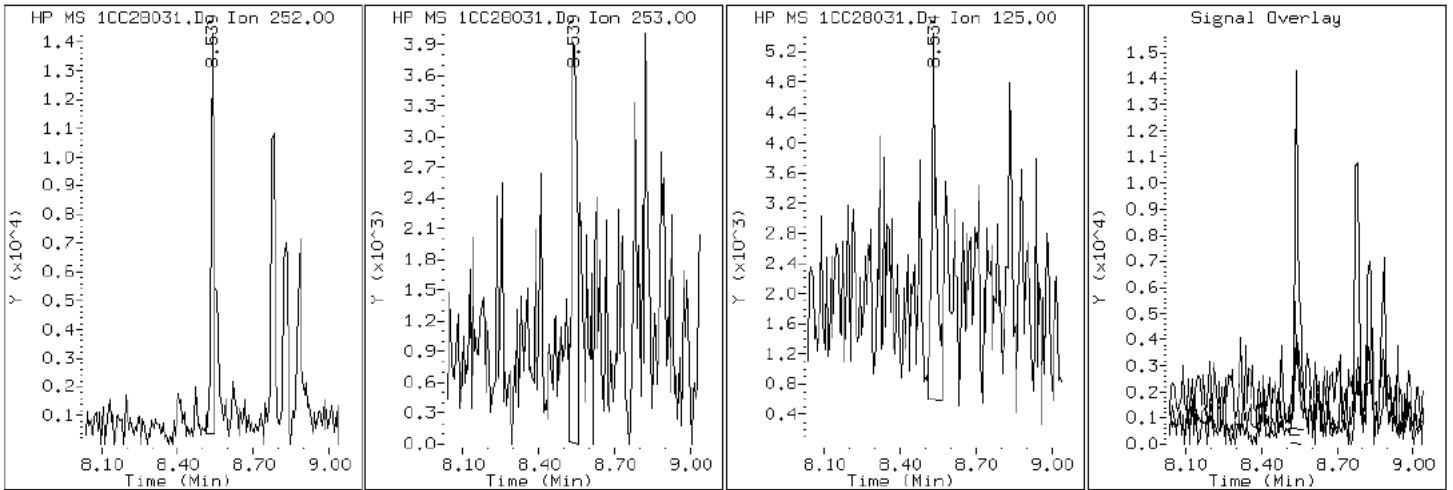
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

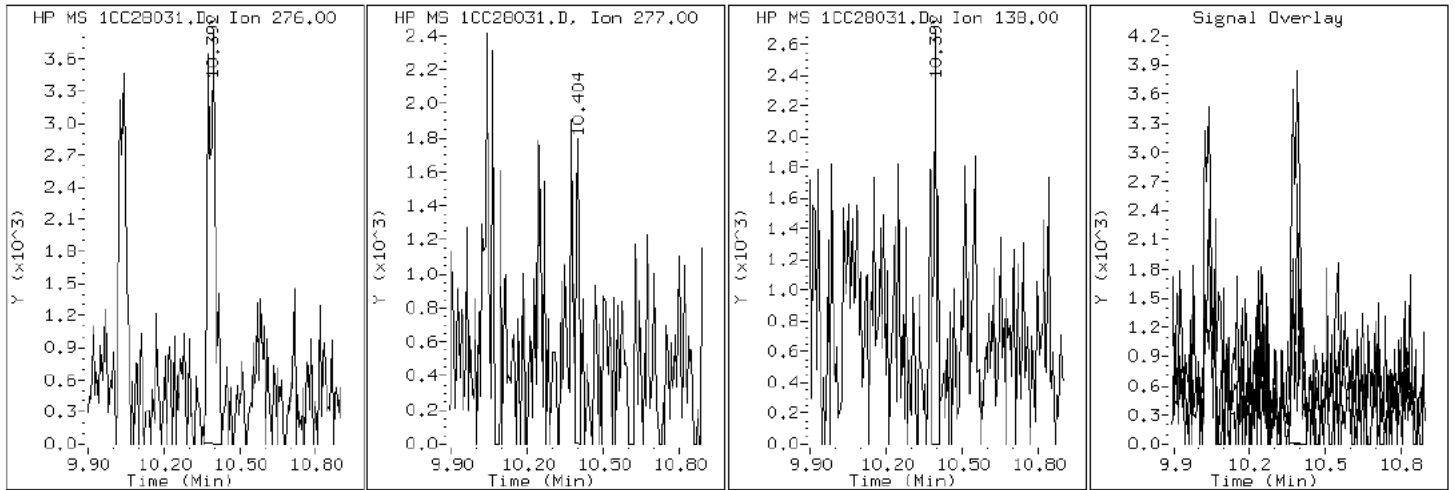
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

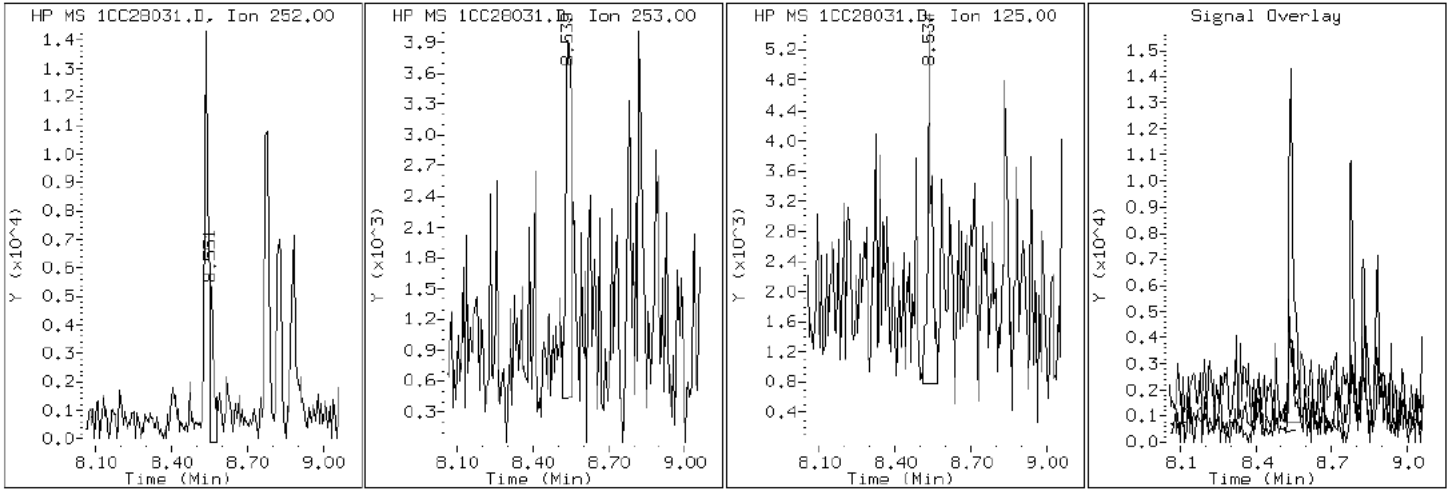
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

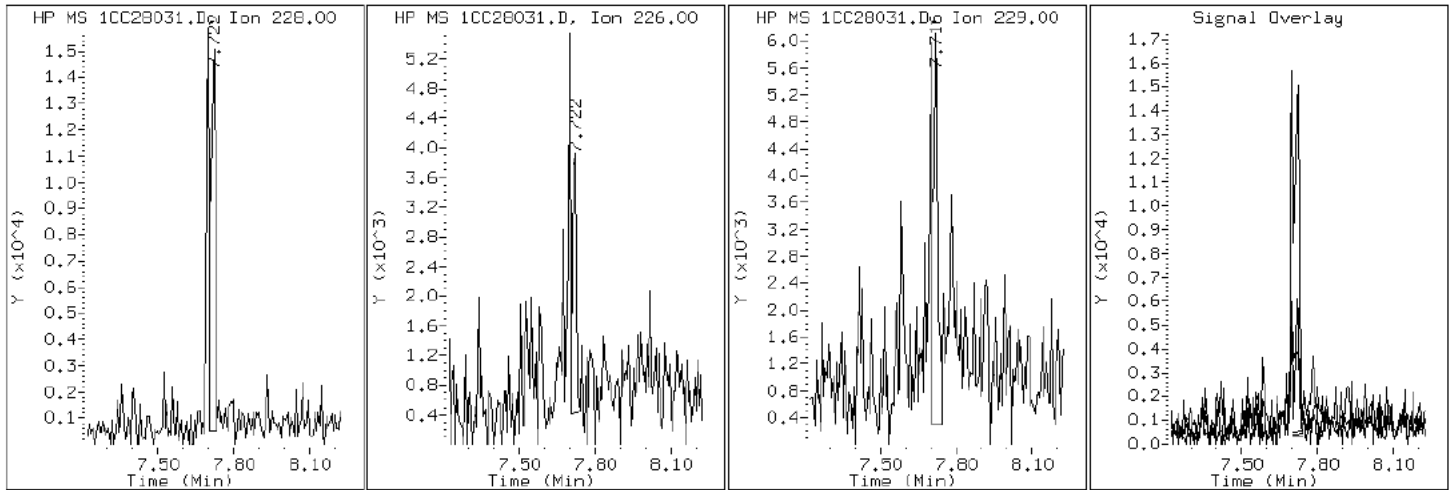
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

19 Chrysene



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

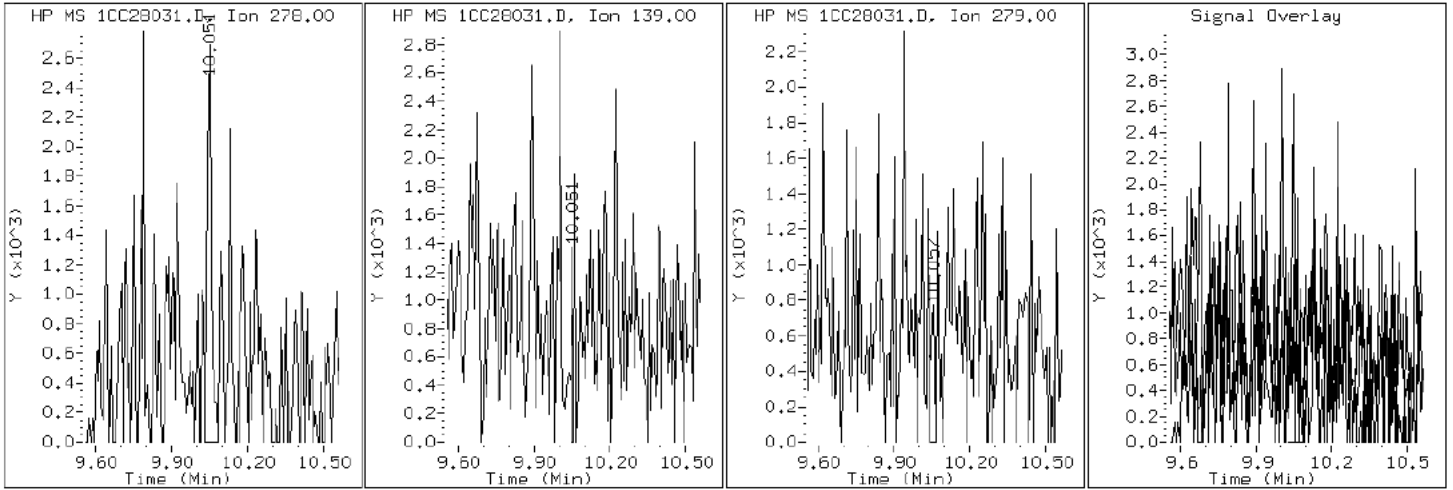
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

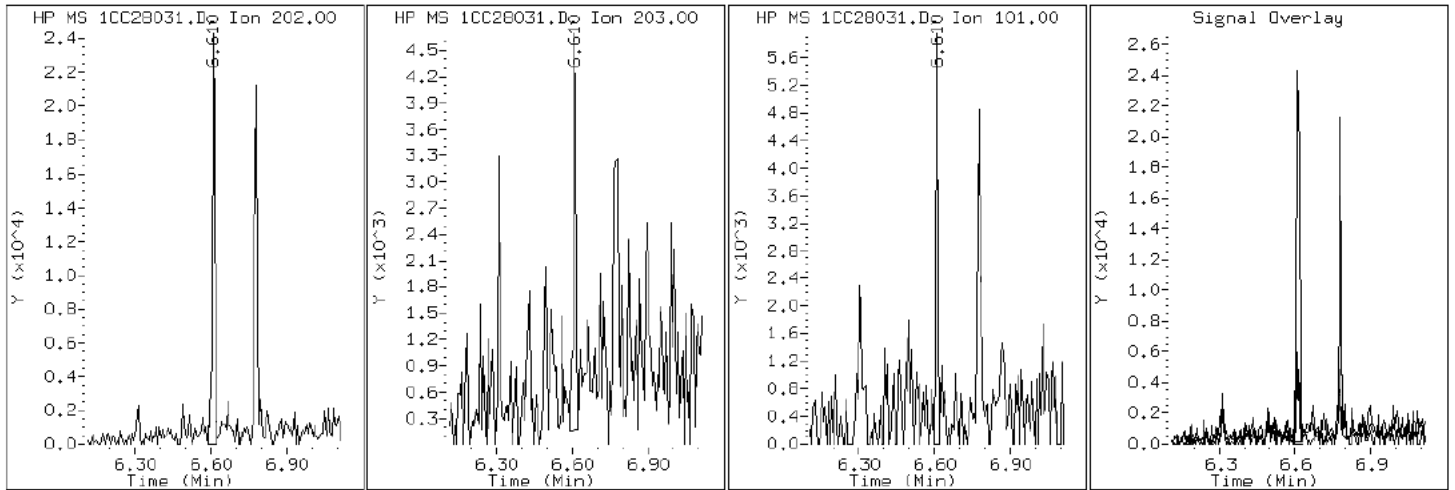
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

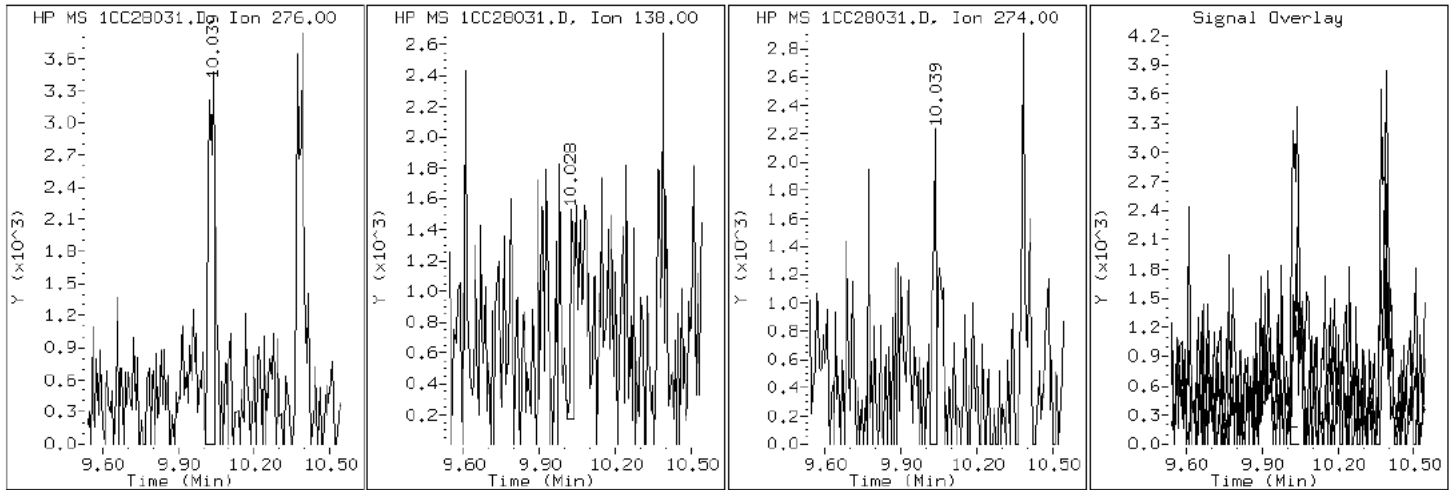
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

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



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

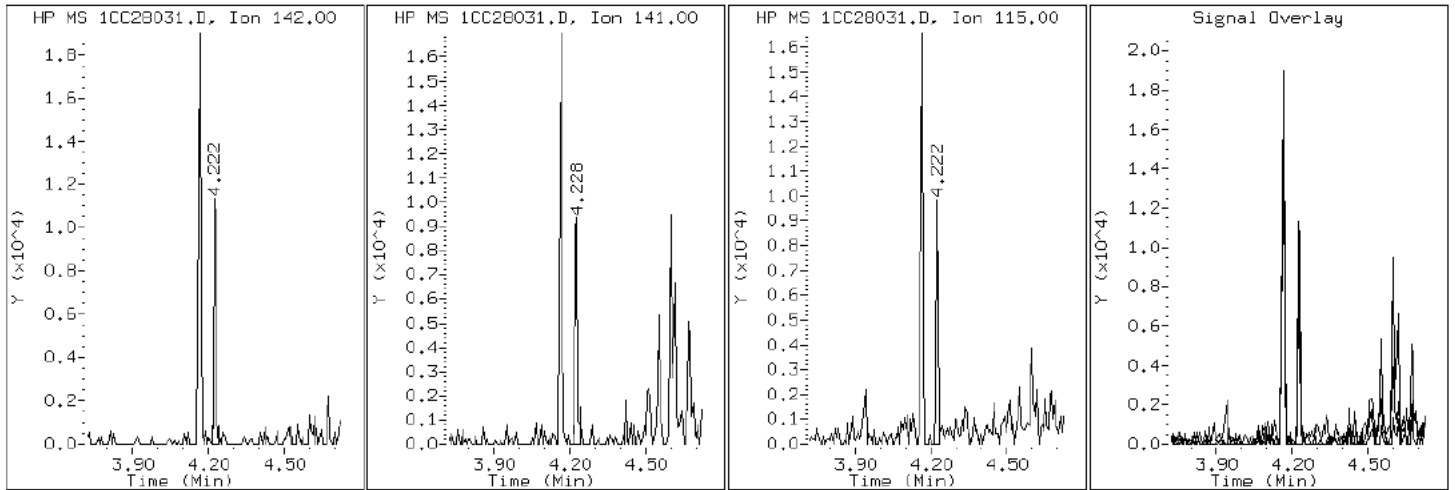
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

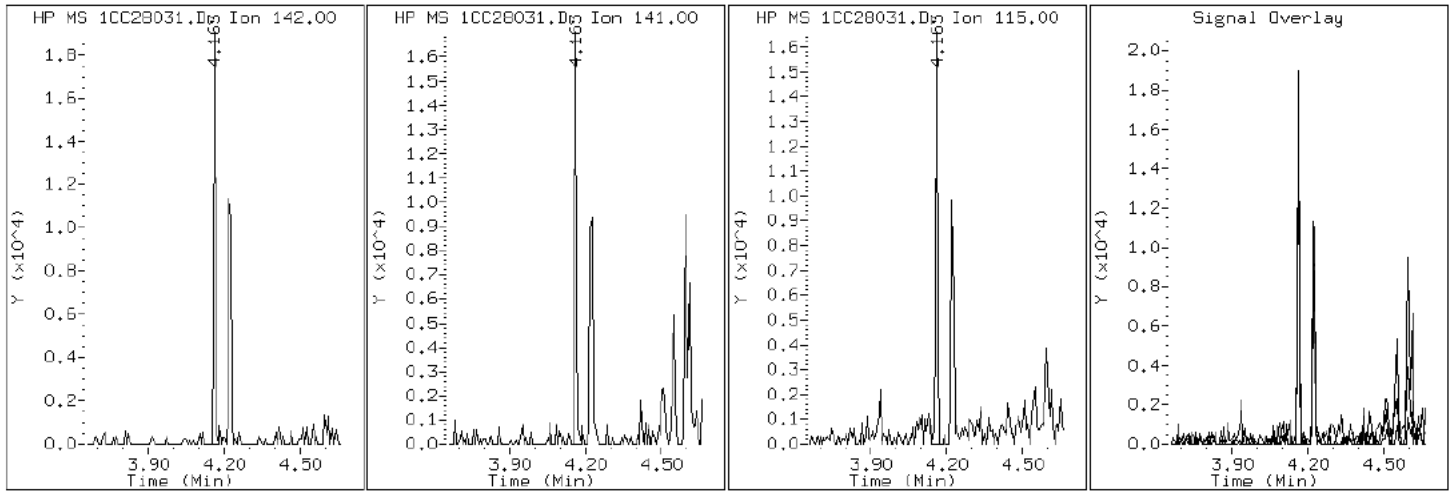
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

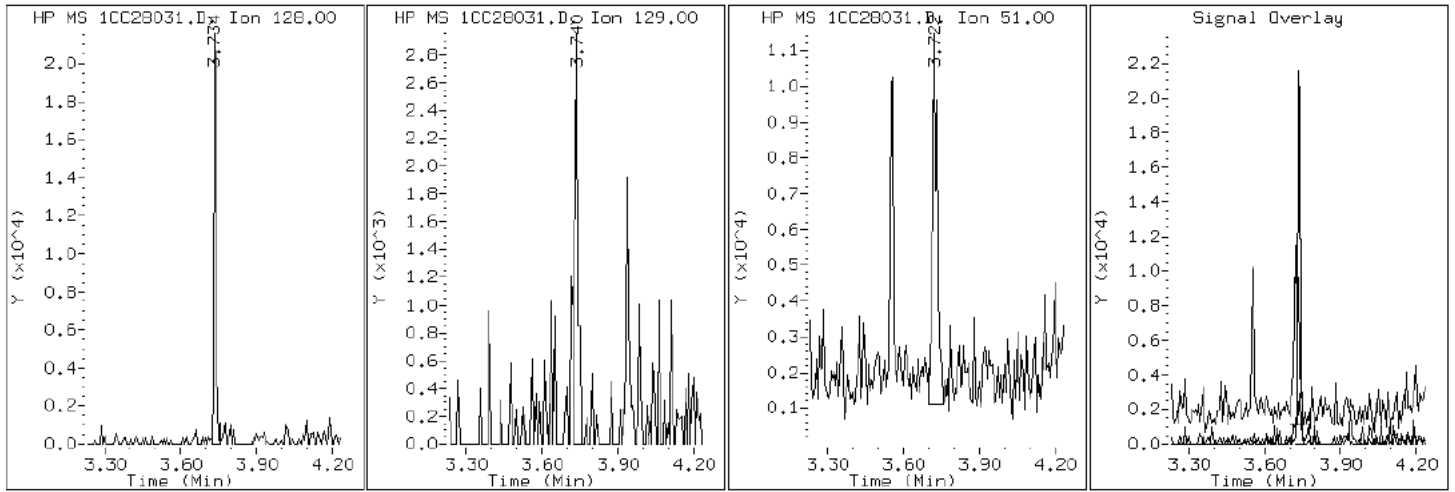
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

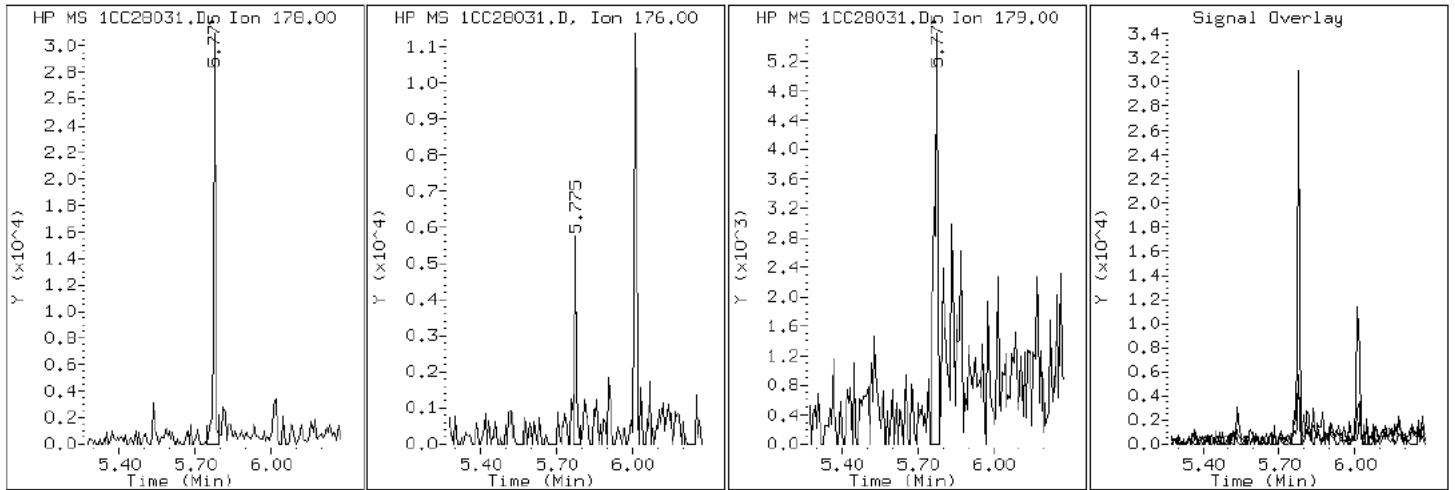
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28031.D

Date: 28-MAR-2013 20:34

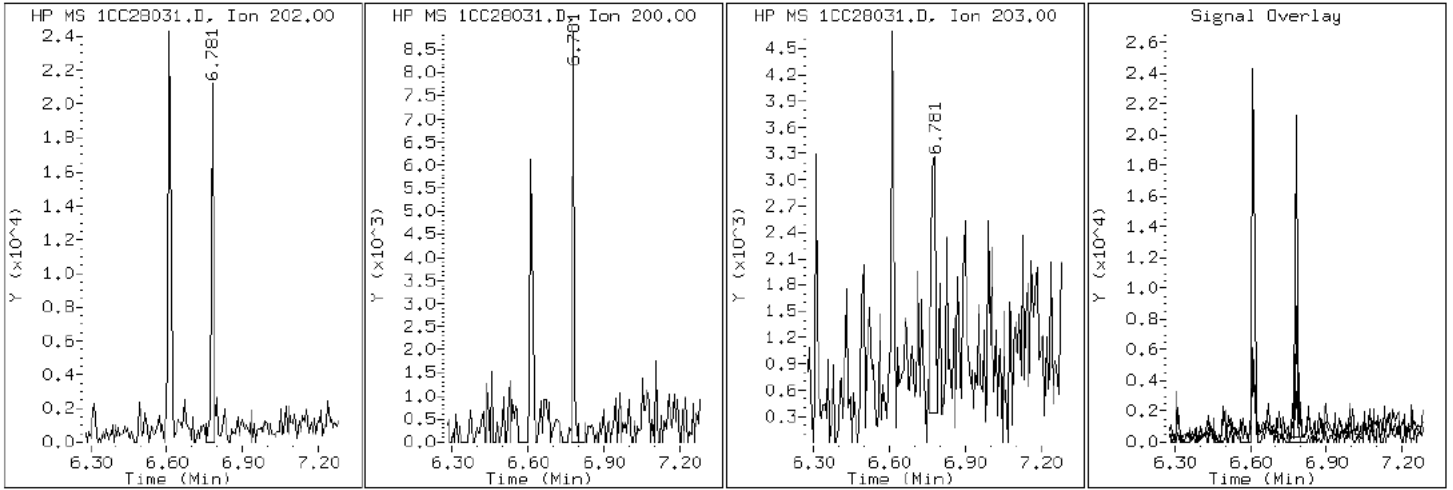
Client ID: CV0101A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-13-a

Operator: SCC

16 Pyrene

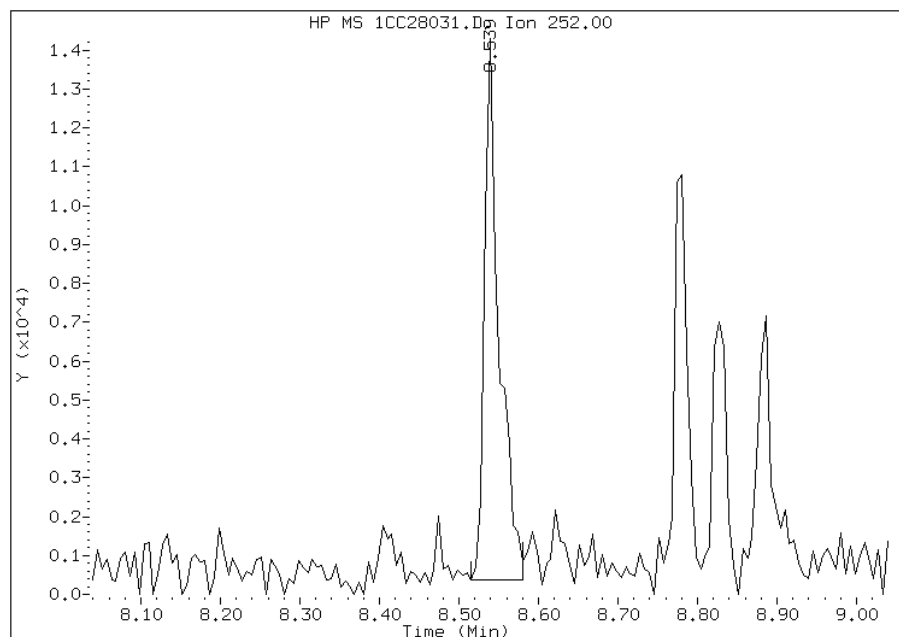


Manual Integration Report

Data File: 1CC28031.D
Inj. Date and Time: 28-MAR-2013 20:34
Instrument ID: BSMC5973.i
Client ID: CV0101A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/01/2013

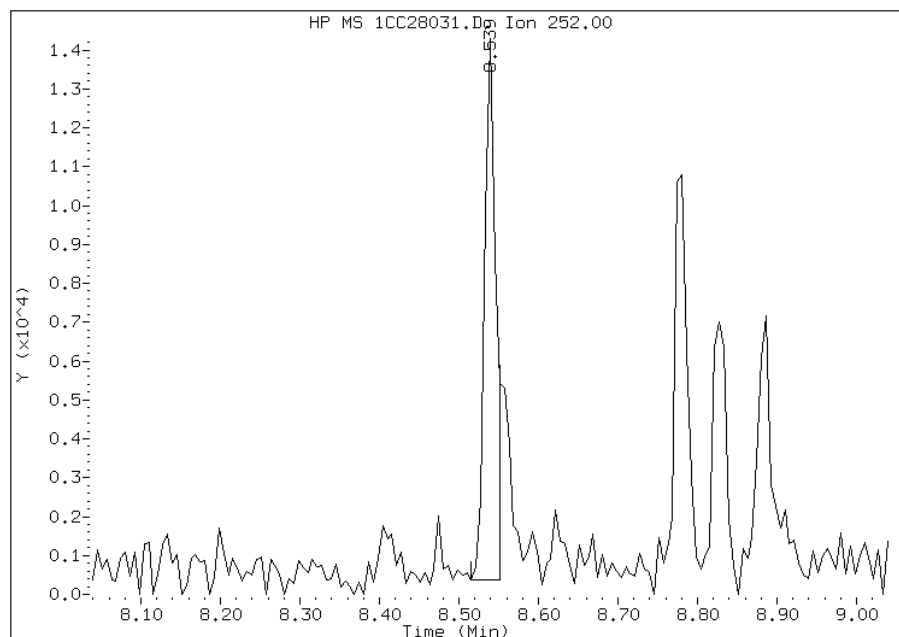
Processing Integration Results

RT: 8.54
Response: 17822
Amount: 0
Conc: 49



Manual Integration Results

RT: 8.54
Response: 13764
Amount: 0
Conc: 38



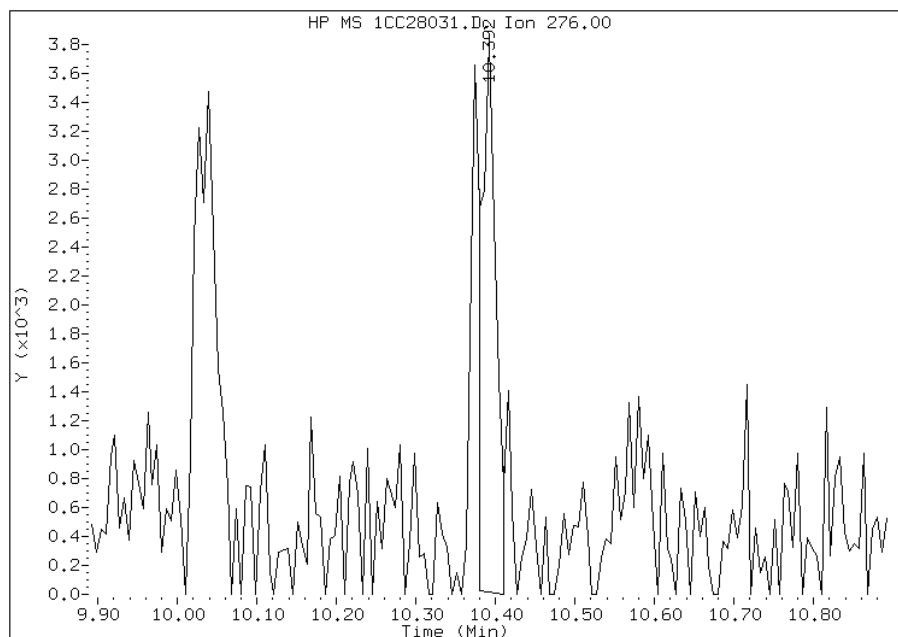
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:53
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC28031.D
Inj. Date and Time: 28-MAR-2013 20:34
Instrument ID: BSMC5973.i
Client ID: CV0101A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/01/2013

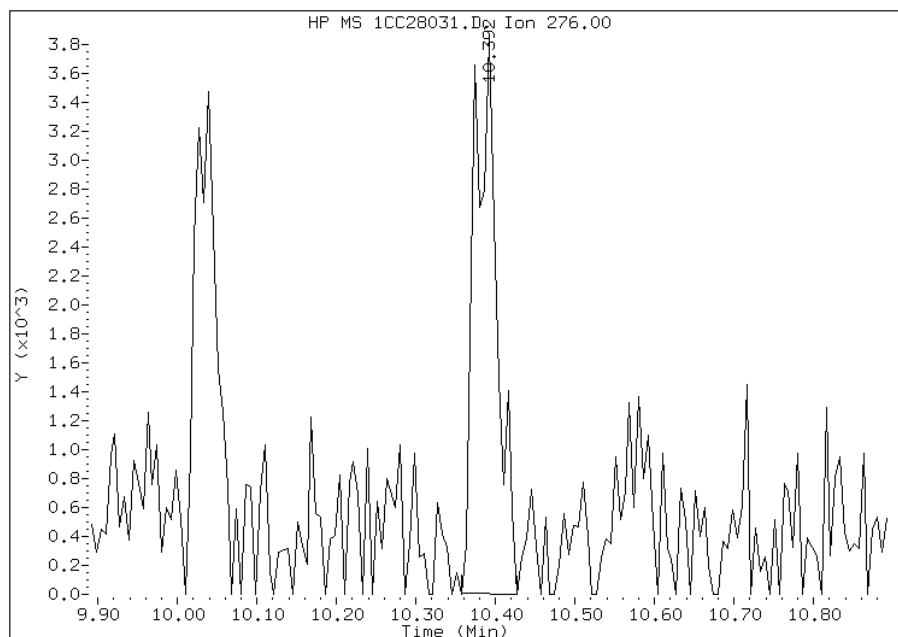
Processing Integration Results

RT: 10.39
Response: 4956
Amount: 0
Conc: 14



Manual Integration Results

RT: 10.39
Response: 7693
Amount: 0
Conc: 22



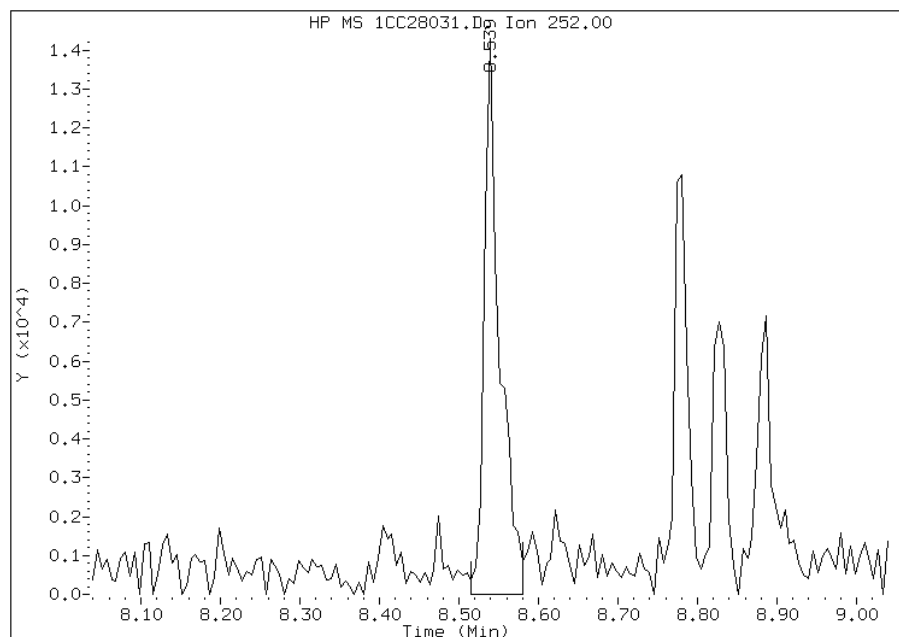
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28031.D
Inj. Date and Time: 28-MAR-2013 20:34
Instrument ID: BSMC5973.i
Client ID: CV0101A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/01/2013

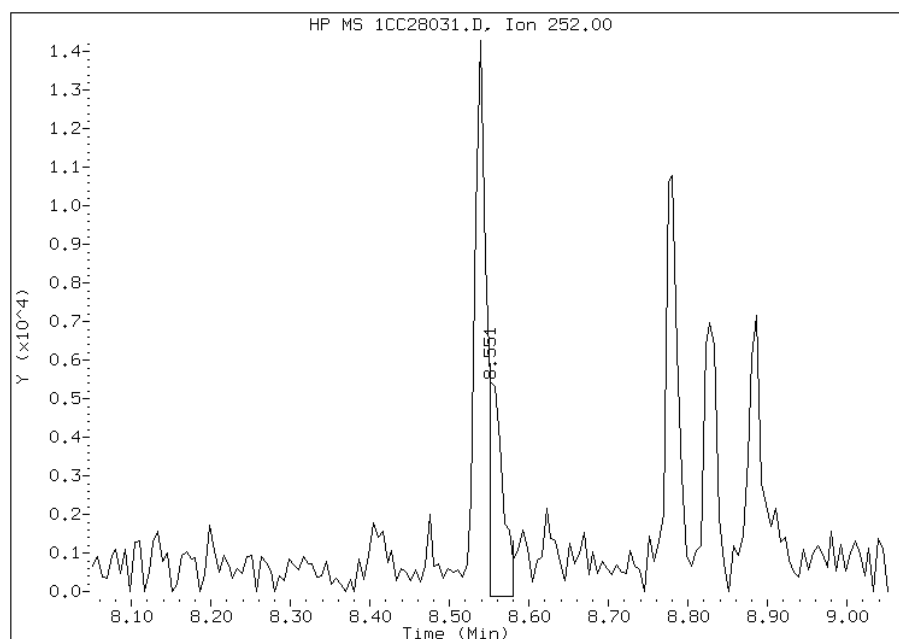
Processing Integration Results

RT: 8.54
Response: 19440
Amount: 0
Conc: 52



Manual Integration Results

RT: 8.55
Response: 6915
Amount: 0
Conc: 19



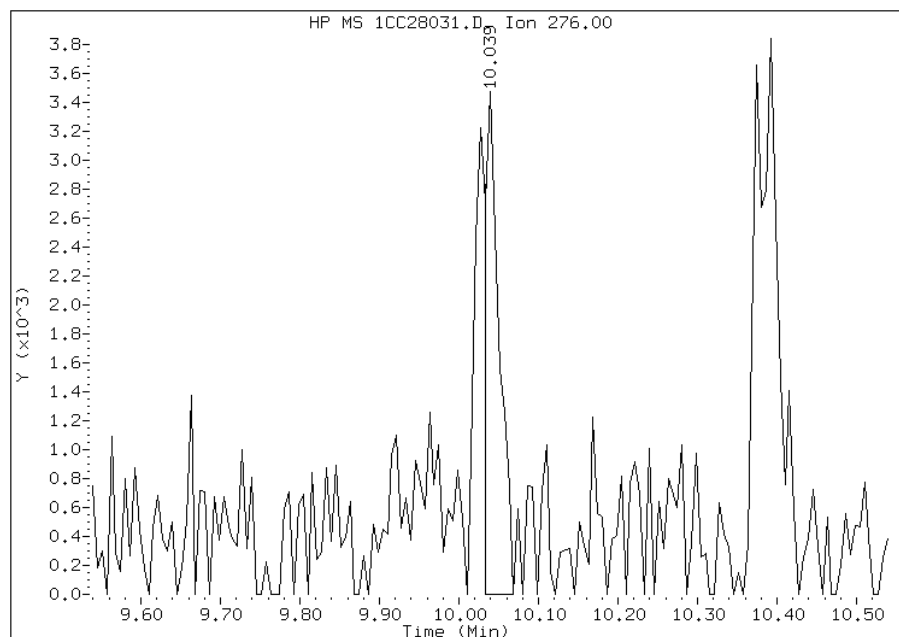
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28031.D
Inj. Date and Time: 28-MAR-2013 20:34
Instrument ID: BSMC5973.i
Client ID: CV0101A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

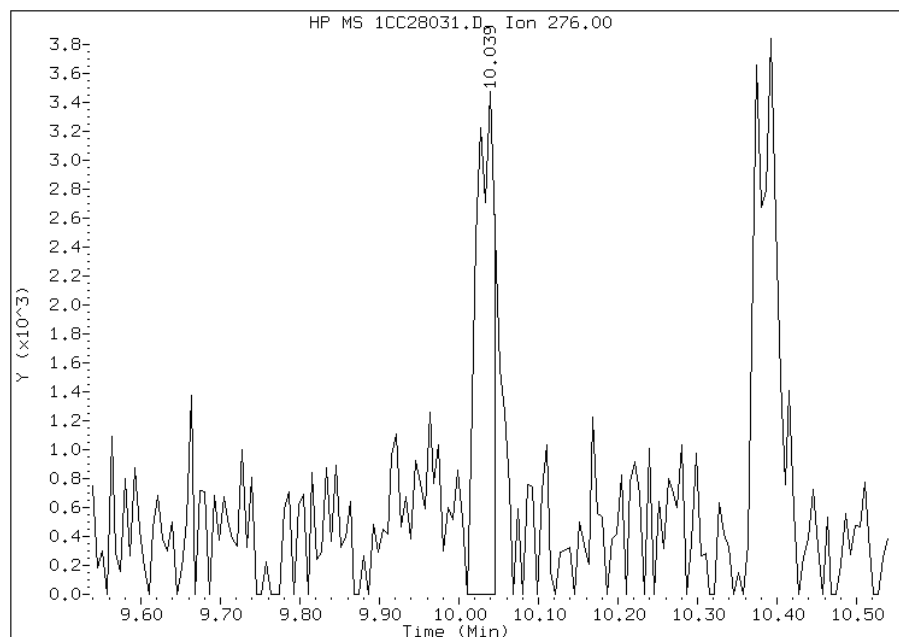
Processing Integration Results

RT: 10.04
Response: 4315
Amount: 0
Conc: 13



Manual Integration Results

RT: 10.04
Response: 5404
Amount: 0
Conc: 16



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:54
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV0715A-CS Lab Sample ID: 680-88592-14
 Matrix: Solid Lab File ID: 1CC28032.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 12:20
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.39(g) Date Analyzed: 03/28/2013 20:52
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 18.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	6.6	J	48	6.0
120-12-7	Anthracene	13		10	5.0
56-55-3	Benzo[a]anthracene	47		9.6	4.7
50-32-8	Benzo[a]pyrene	49		12	6.2
205-99-2	Benzo[b]fluoranthene	81		15	7.3
191-24-2	Benzo[g,h,i]perylene	42		24	5.3
207-08-9	Benzo[k]fluoranthene	41		9.6	4.3
218-01-9	Chrysene	76		11	5.4
53-70-3	Dibenz(a,h)anthracene	18	J	24	4.9
206-44-0	Fluoranthene	62		24	4.8
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	31		24	8.5
90-12-0	1-Methylnaphthalene	44	J	48	5.3
91-57-6	2-Methylnaphthalene	39	J	48	8.5
91-20-3	Naphthalene	30	J	48	5.3
85-01-8	Phenanthrene	66		9.6	4.7
129-00-0	Pyrene	69		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	53		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032813.b\1CC28032.D
 Lab Smp Id: 680-88592-A-14-A Client Smp ID: CV0715A-CS
 Inj Date : 28-MAR-2013 20:52
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-14-a
 Misc Info : 680-88592-A-14-A
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 32
 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	15.390	Weight Extracted
M	18.621	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.722	3.722	(1.000)	806522	40.0000		
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	623672	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.763	(1.000)	1150850	40.0000		
\$ 14 o-Terphenyl	230		6.010	6.010	(1.043)	91502	5.26604	420.4664	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1269297	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1205247	40.0000		
2 Naphthalene	128		3.733	3.733	(1.003)	7952	0.37872	30.2391(Q)	
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	6856	0.48951	39.0850	
4 1-Methylnaphthalene	142		4.227	4.222	(1.136)	7024	0.55065	43.9662	
5 Acenaphthylene	152		4.722	4.722	(0.982)	2093	0.08324	6.6462	
11 Phenanthrene	178		5.774	5.774	(1.002)	27614	0.82981	66.2561	
12 Anthracene	178		5.810	5.810	(1.008)	5103	0.15680	12.5194	
13 Carbazole	167		5.921	5.921	(1.028)	3019	0.10435	8.3321(Q)	
15 Fluoranthene	202		6.610	6.616	(1.147)	28098	0.77101	61.5616	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	6.780	6.780	(0.880)	29324	0.85968	68.6407
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	21772	0.59431	47.4522(Q)
19 Chrysene	228	7.721	7.721	(1.002)	35014	0.95505	76.2560
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	31967	1.01490	81.0348
21 Benzo(k)fluoranthene	252	8.557	8.562	(0.963)	16535	0.51174	40.8594
22 Benzo(a)pyrene	252	8.833	8.827	(0.994)	18903	0.61786	49.3327
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.045	(1.130)	11208	0.38943	31.0937(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.062	(1.132)	6328	0.22478	17.9477(M)
26 Benzo(g,h,i)perylene	276	10.392	10.398	(1.169)	15687	0.52104	41.6024(M)

QC Flag Legend

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

Data File: 1CC28032.D

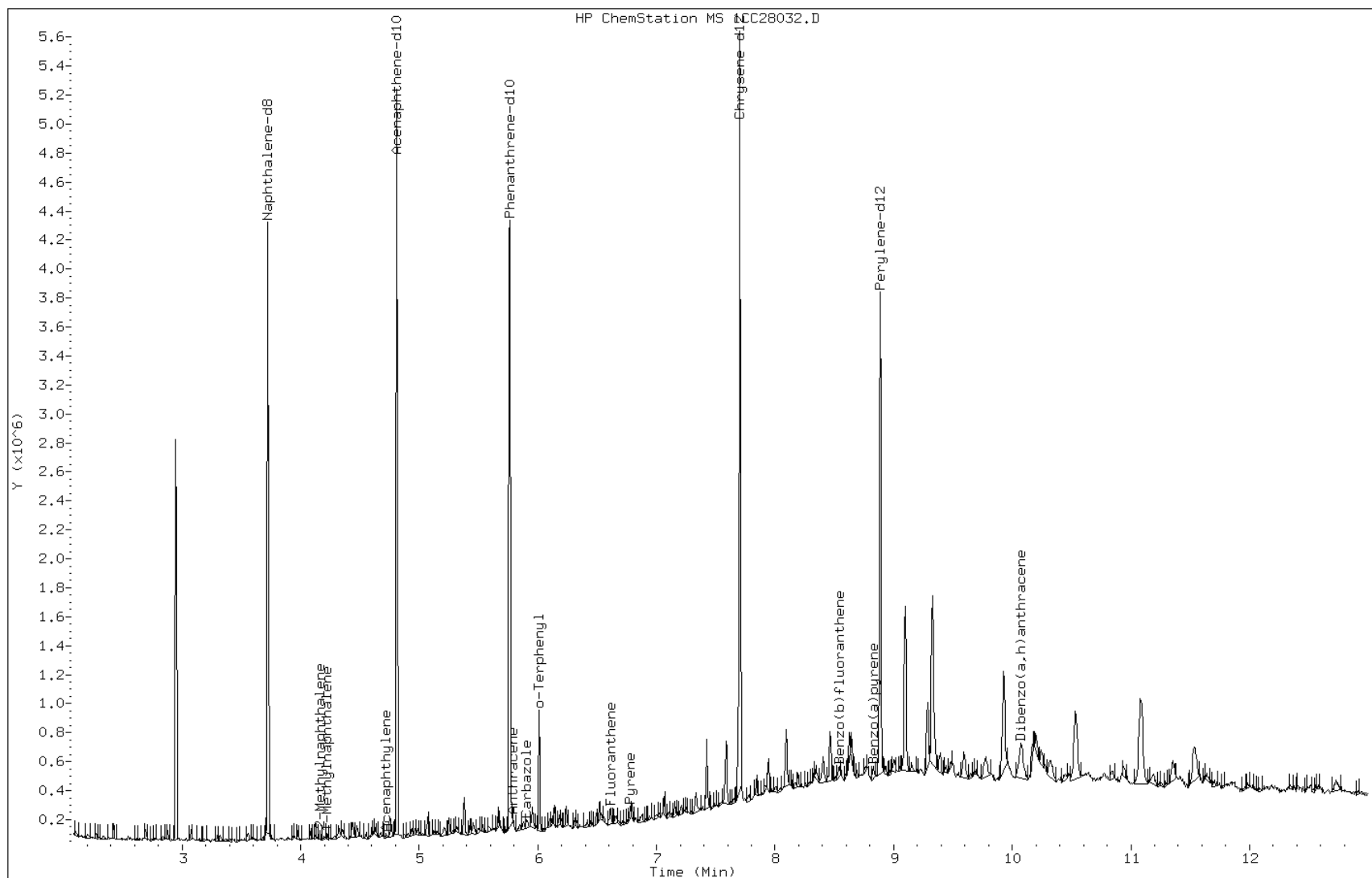
Date: 28-MAR-2013 20:52

Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

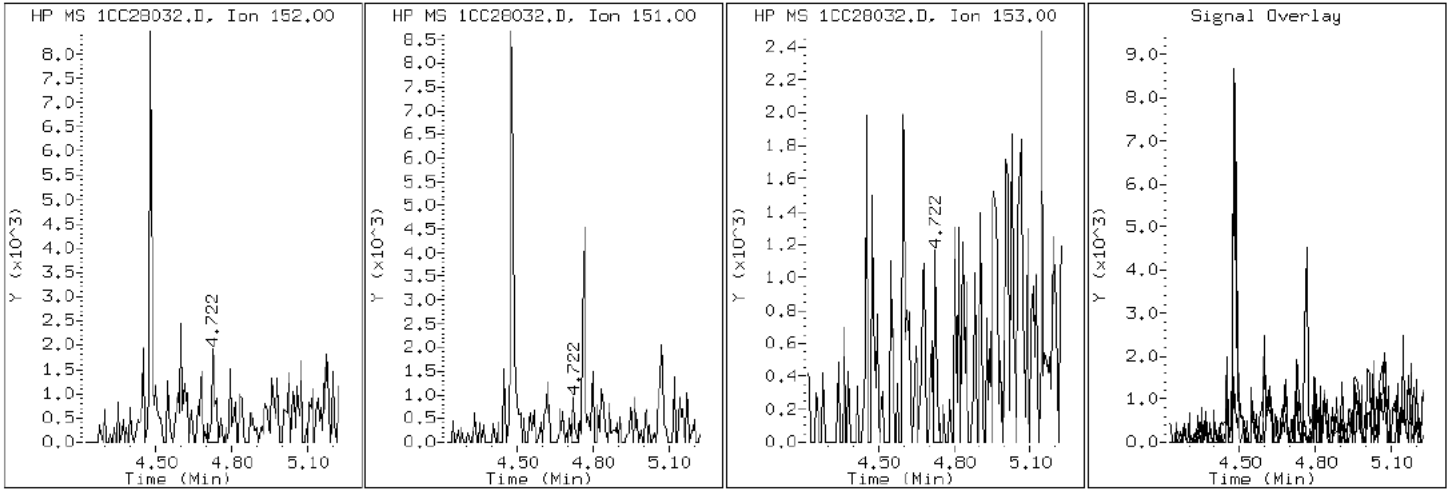
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

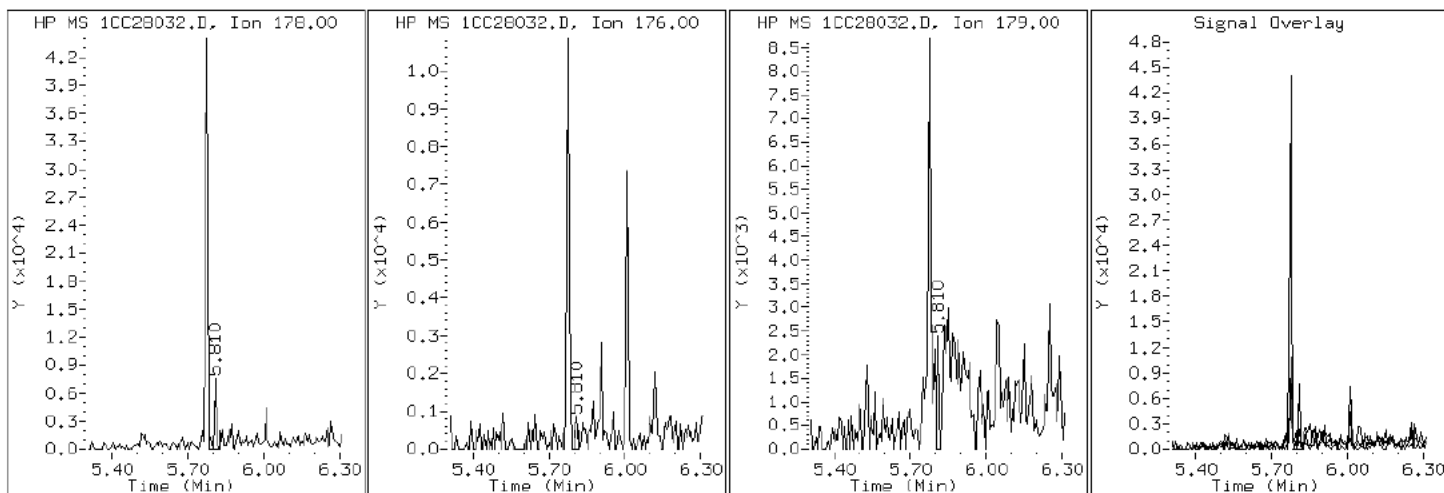
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

12 Anthracene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

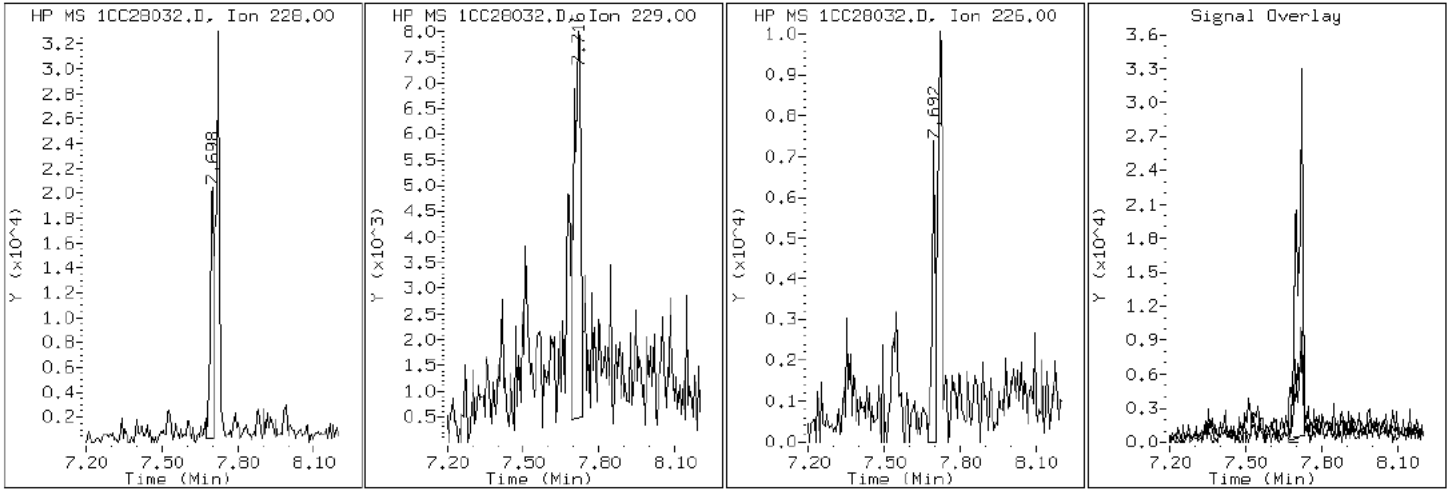
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

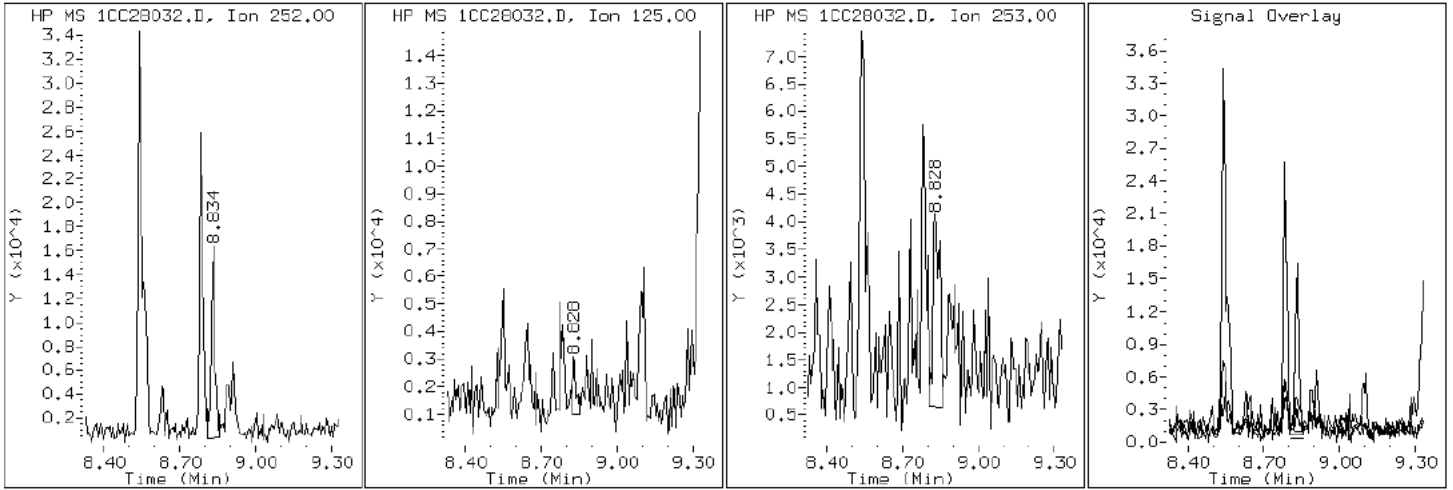
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

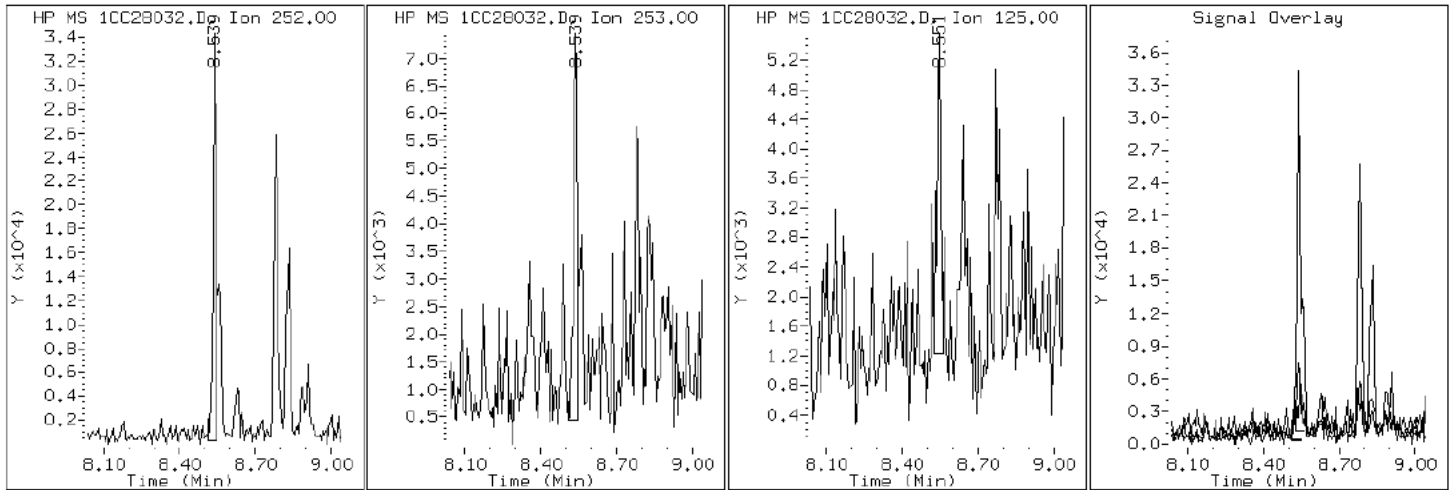
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

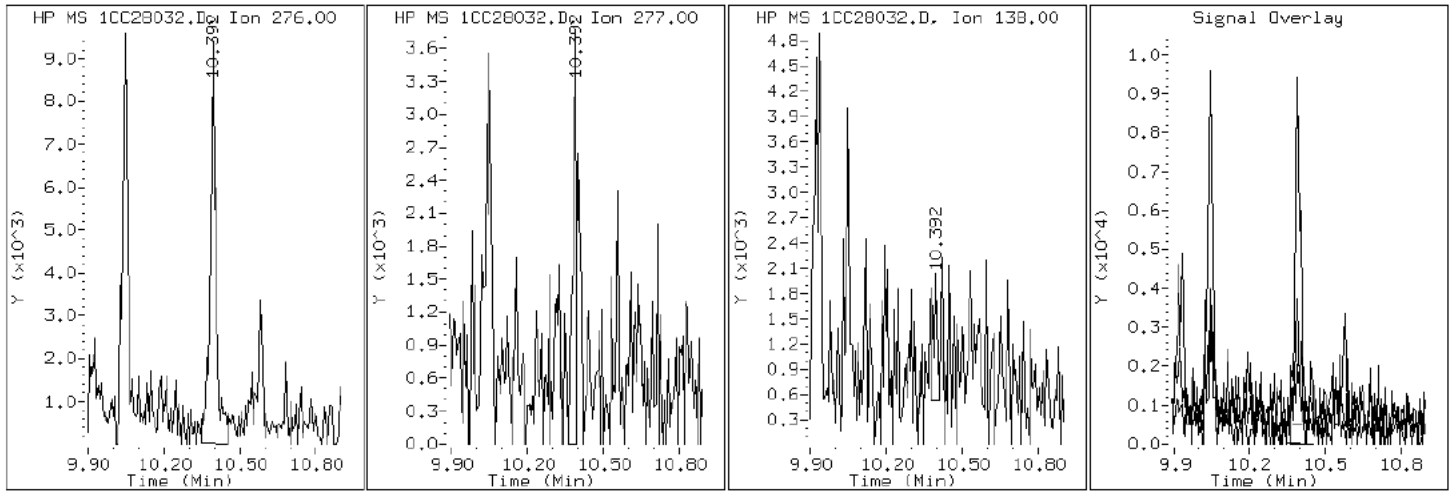
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

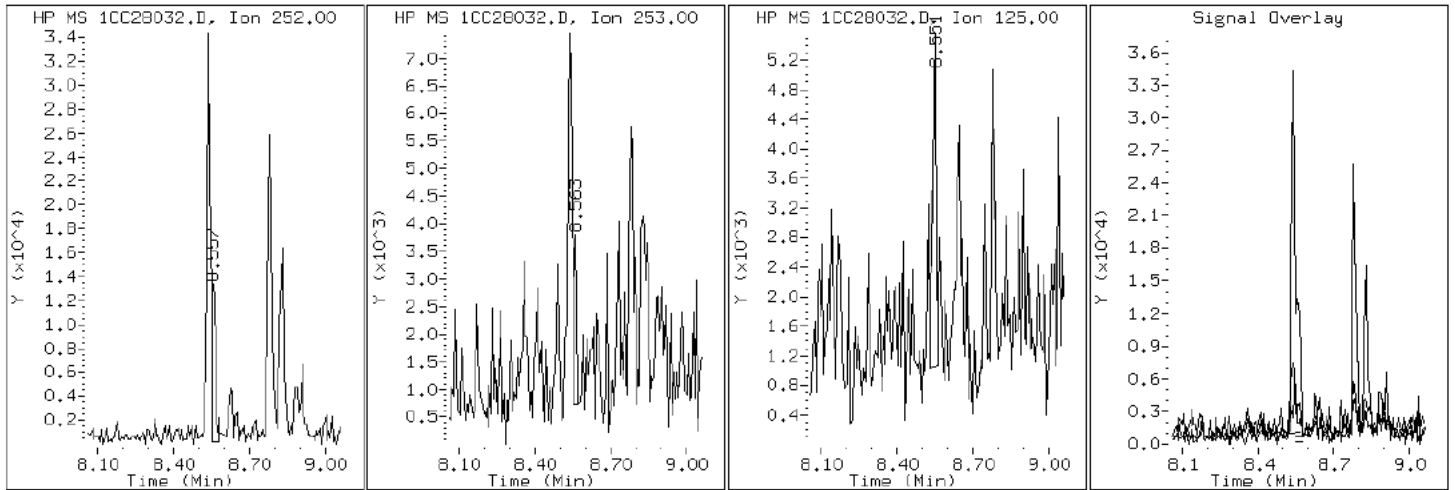
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

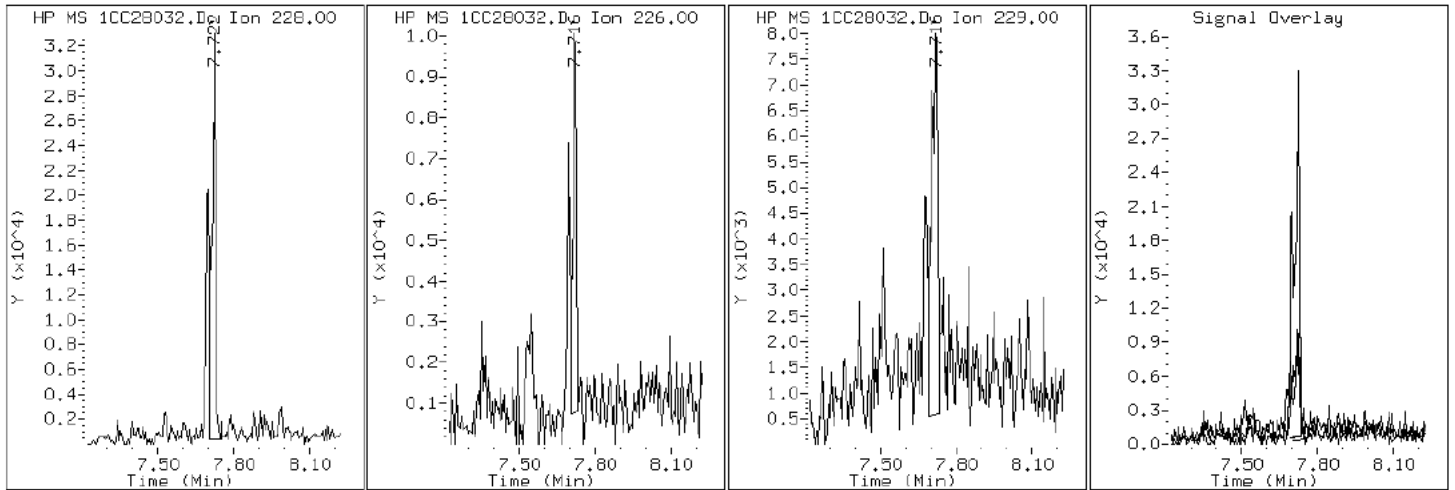
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

19 Chrysene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

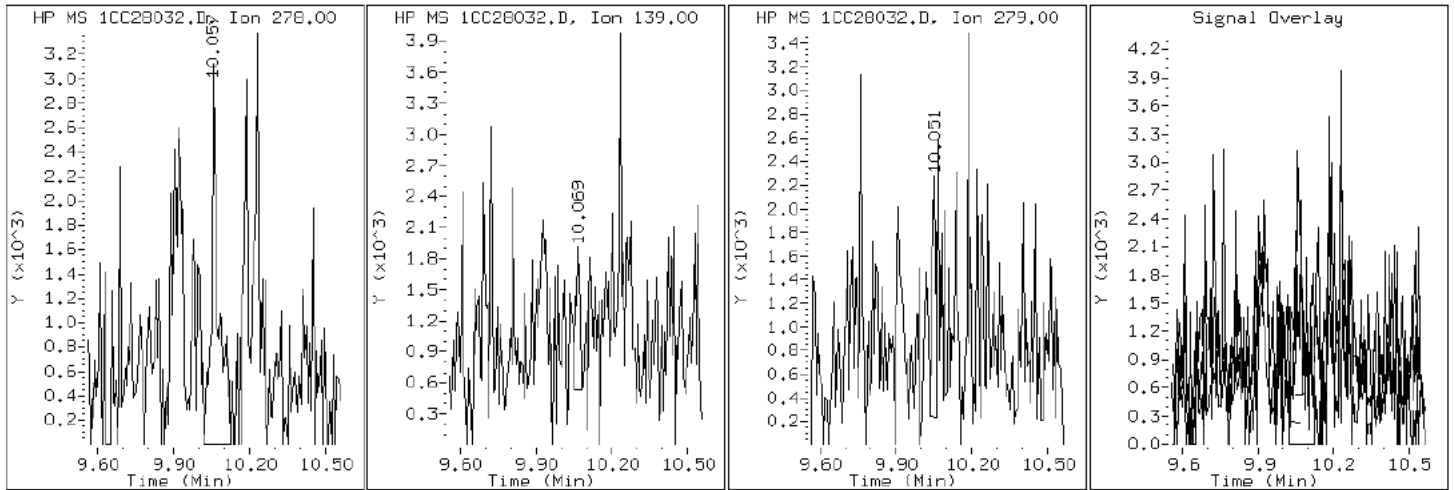
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

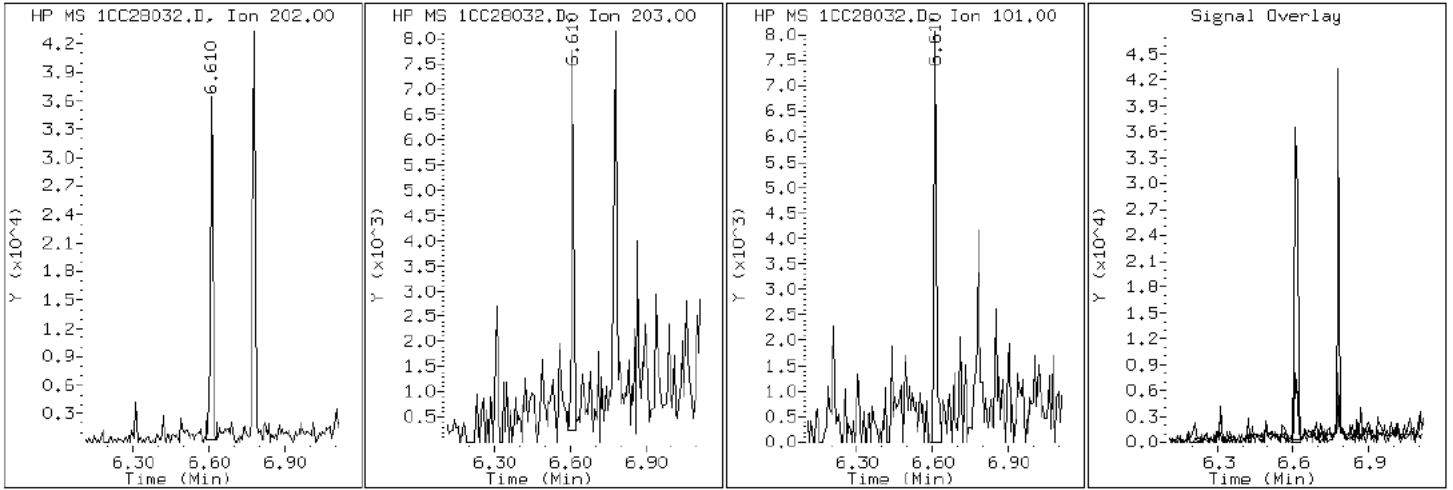
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

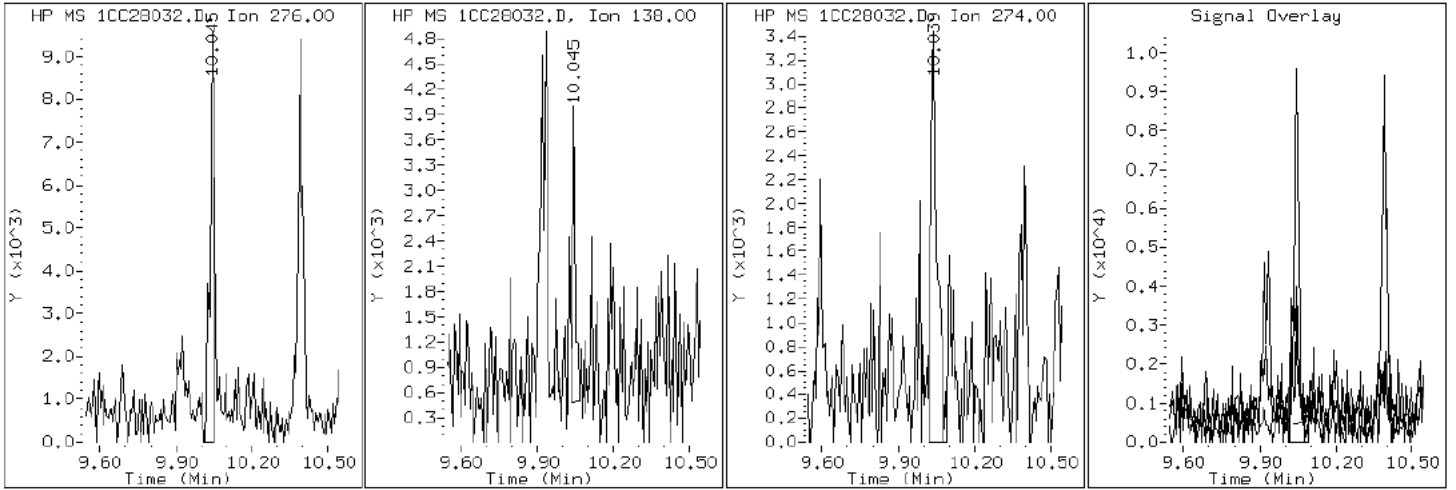
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

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



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

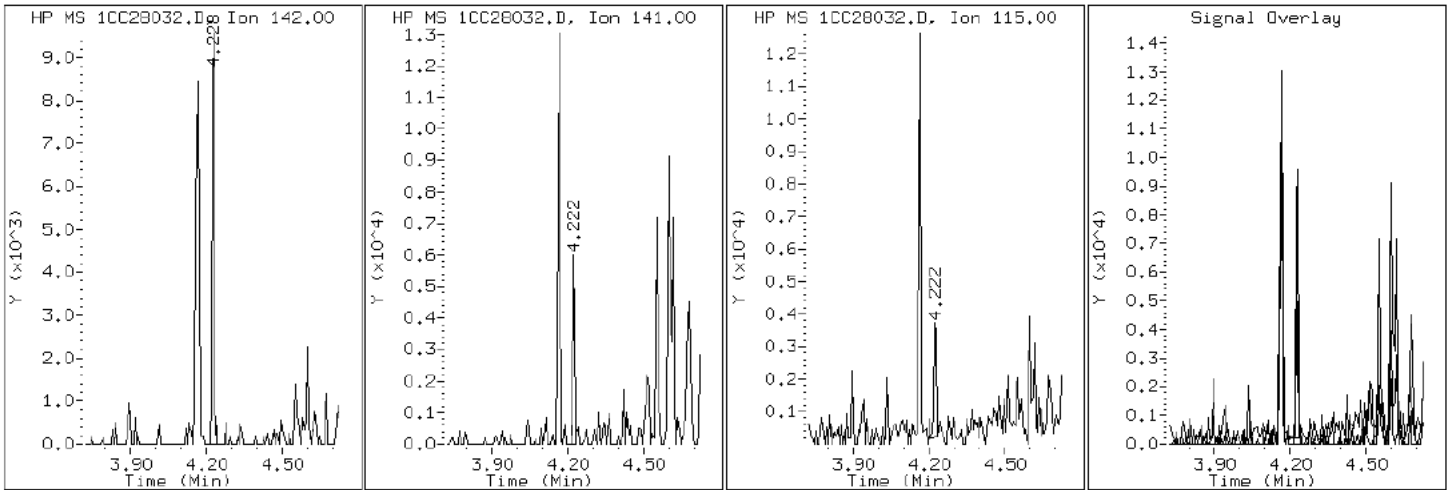
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

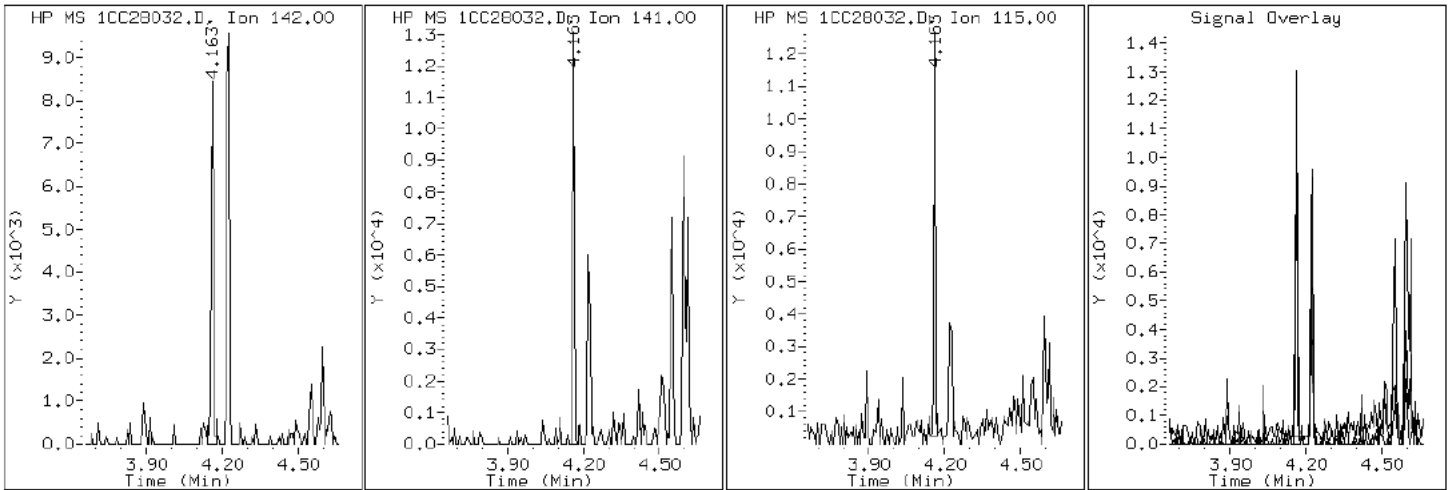
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

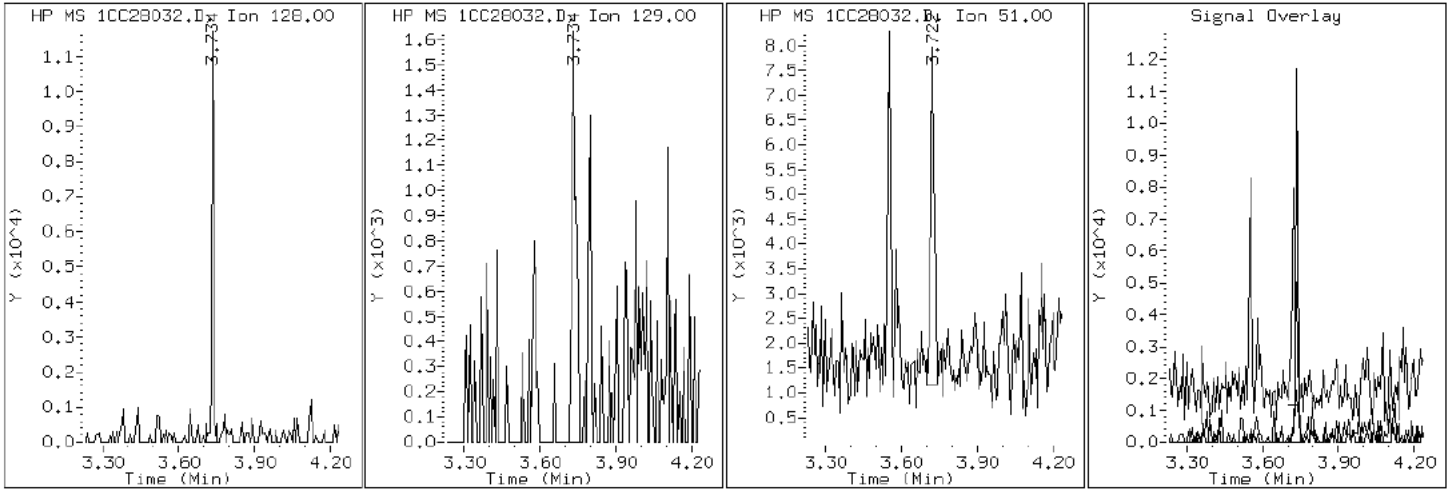
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

2 Naphthalene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

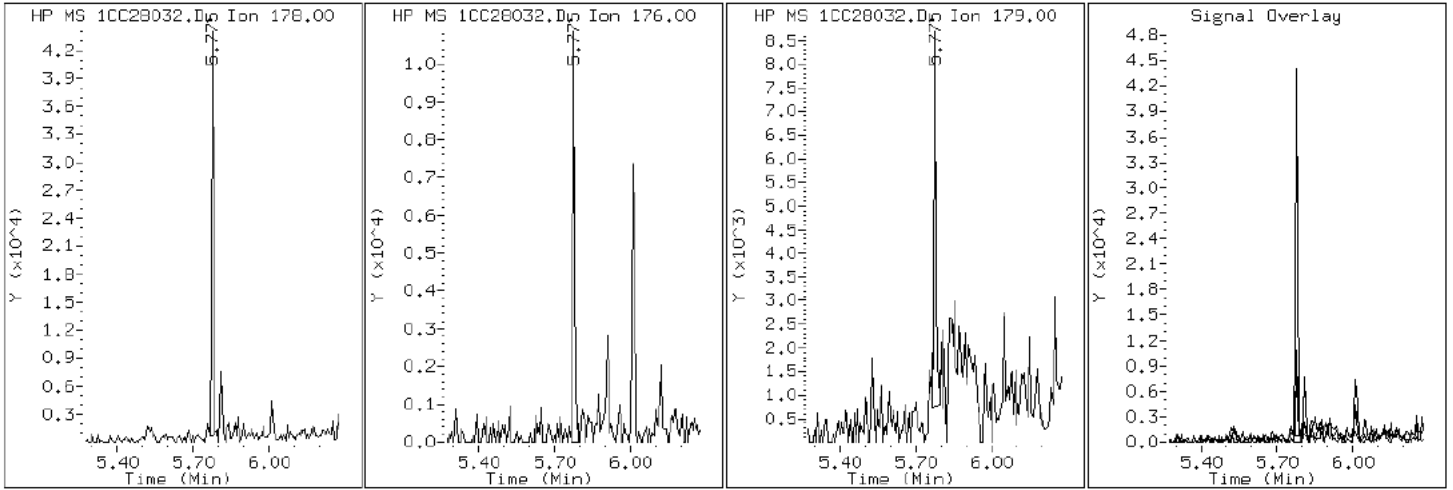
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28032.D

Date: 28-MAR-2013 20:52

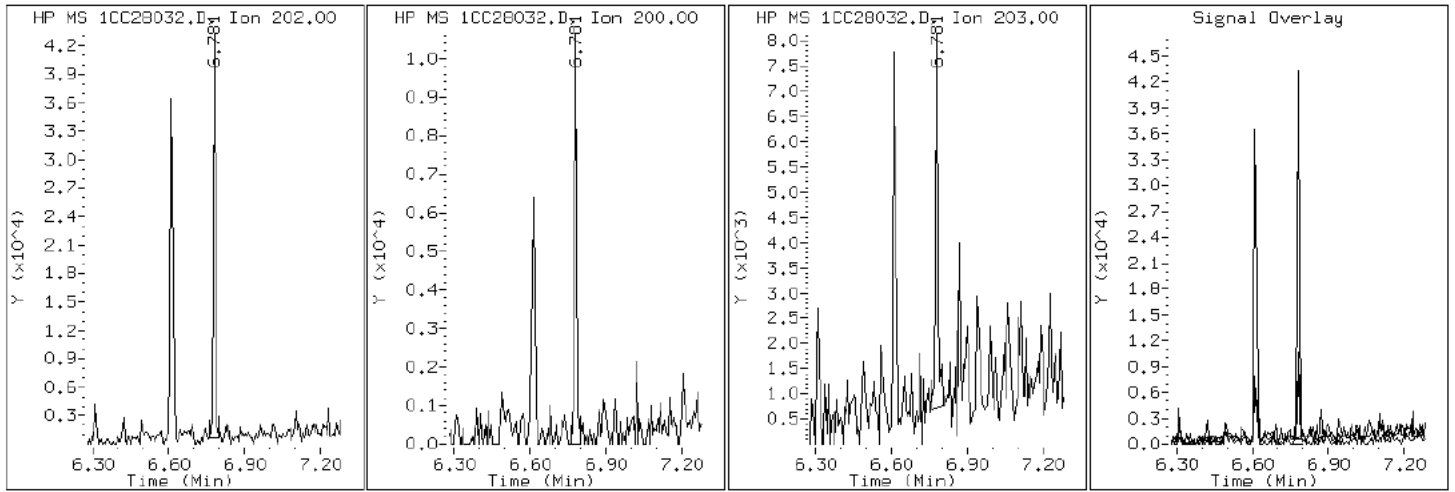
Client ID: CV0715A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-14-a

Operator: SCC

16 Pyrene

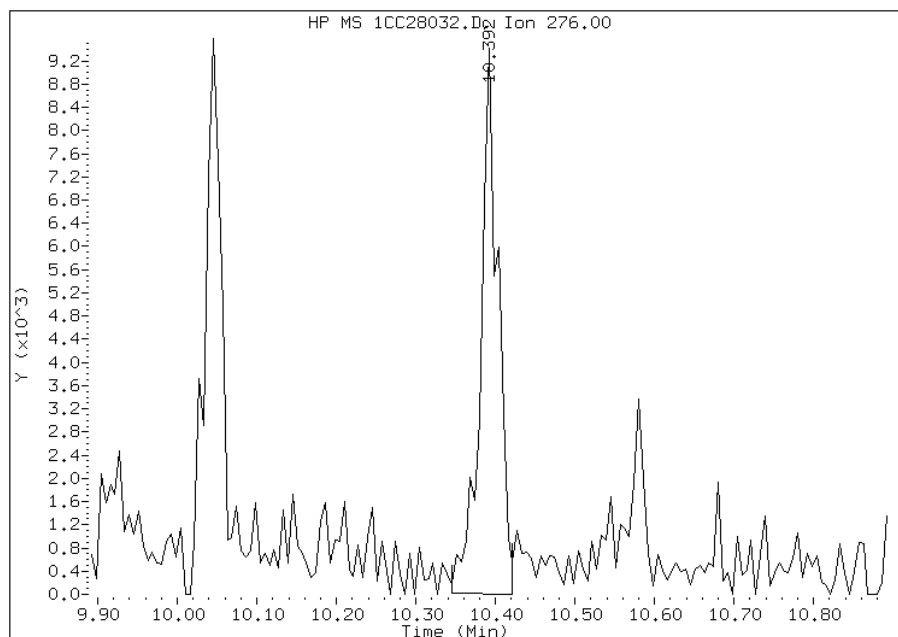


Manual Integration Report

Data File: 1CC28032.D
Inj. Date and Time: 28-MAR-2013 20:52
Instrument ID: BSMC5973.i
Client ID: CV0715A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/01/2013

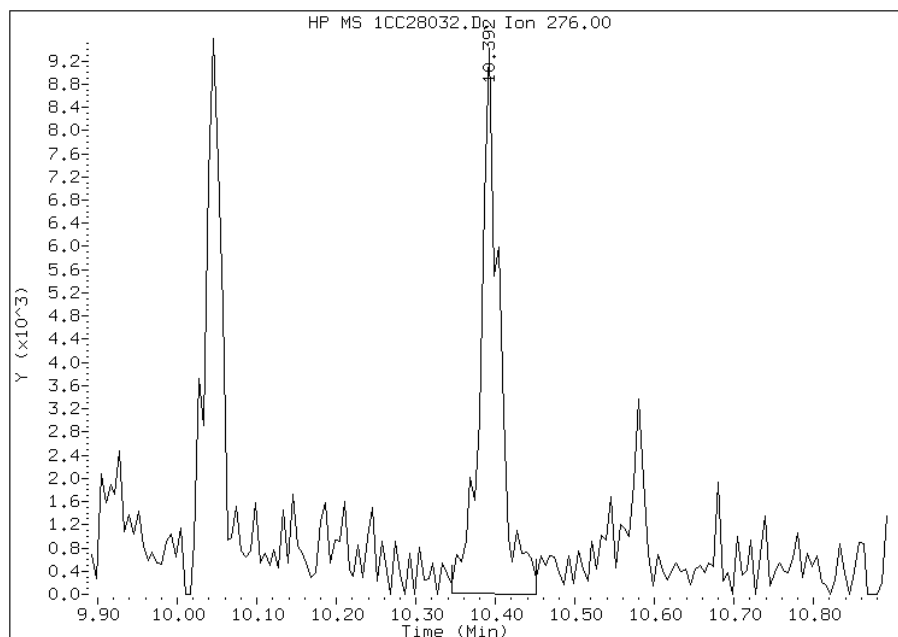
Processing Integration Results

RT: 10.39
Response: 14516
Amount: 0
Conc: 38



Manual Integration Results

RT: 10.39
Response: 15687
Amount: 1
Conc: 42



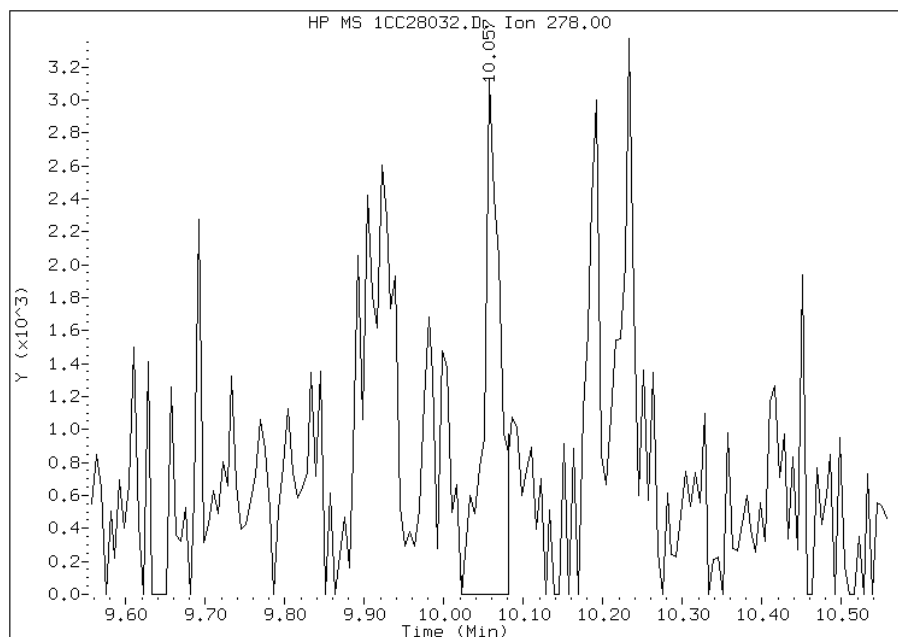
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28032.D
Inj. Date and Time: 28-MAR-2013 20:52
Instrument ID: BSMC5973.i
Client ID: CV0715A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/01/2013

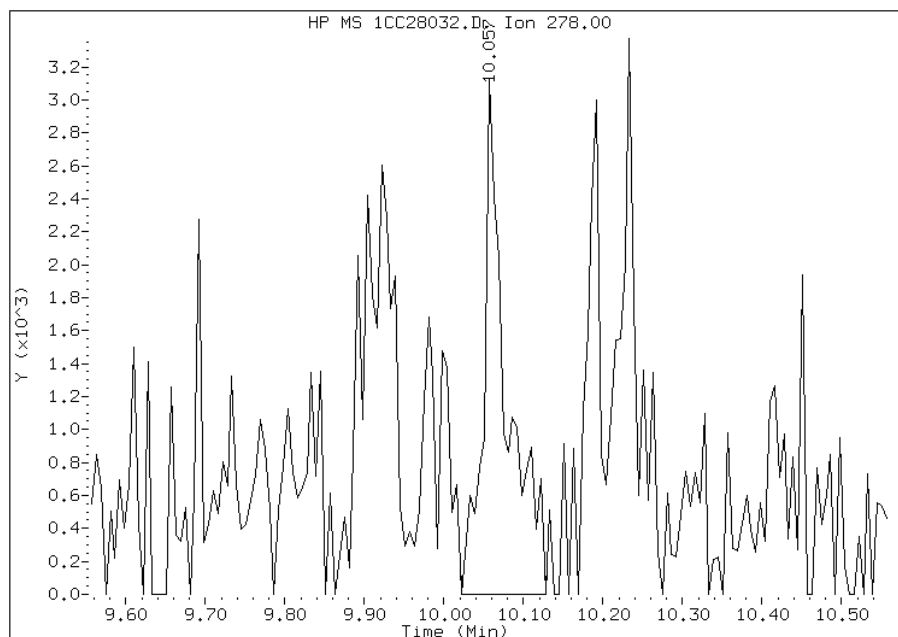
Processing Integration Results

RT: 10.06
Response: 4429
Amount: 0
Conc: 13



Manual Integration Results

RT: 10.06
Response: 6328
Amount: 0
Conc: 18



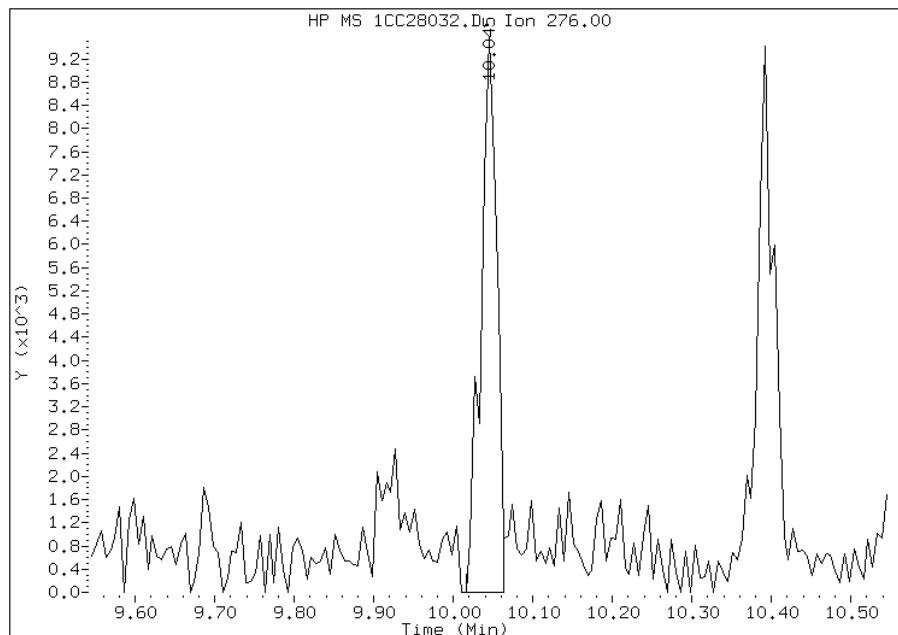
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28032.D
Inj. Date and Time: 28-MAR-2013 20:52
Instrument ID: BSMC5973.i
Client ID: CV0715A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

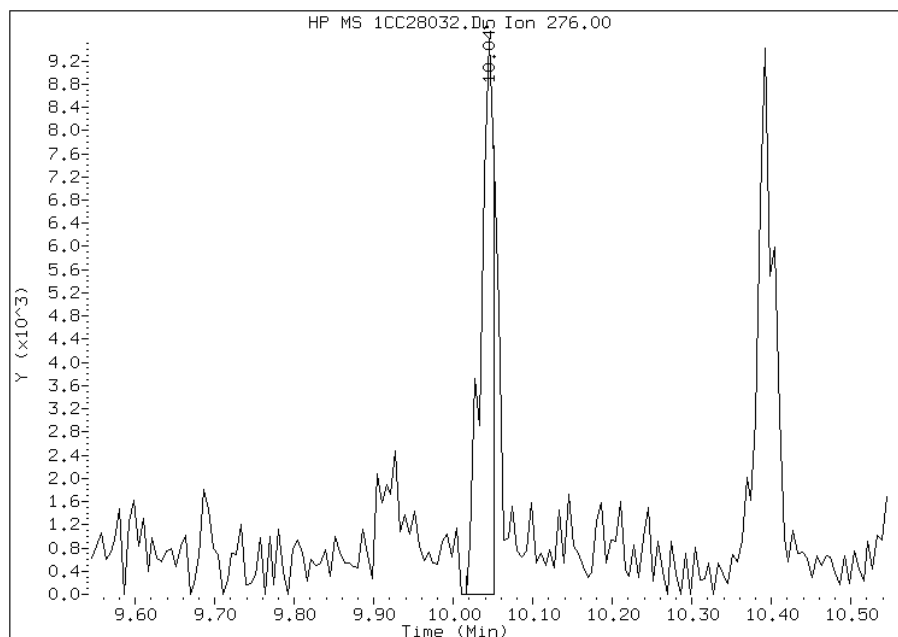
Processing Integration Results

RT: 10.05
Response: 13284
Amount: 0
Conc: 37



Manual Integration Results

RT: 10.05
Response: 11208
Amount: 0
Conc: 31



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV0715A-CSD Lab Sample ID: 680-88592-15
 Matrix: Solid Lab File ID: 1CC28033.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 12:20
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.26(g) Date Analyzed: 03/28/2013 21:11
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 26.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	54	U	54	6.7
120-12-7	Anthracene	69		11	5.6
56-55-3	Benzo[a]anthracene	190		11	5.2
50-32-8	Benzo[a]pyrene	150		14	7.0
205-99-2	Benzo[b]fluoranthene	240		16	8.2
191-24-2	Benzo[g,h,i]perylene	90		27	5.9
207-08-9	Benzo[k]fluoranthene	110		11	4.8
218-01-9	Chrysene	210		12	6.0
53-70-3	Dibenz(a,h)anthracene	35		27	5.5
206-44-0	Fluoranthene	410		27	5.4
86-73-7	Fluorene	21	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	96		27	9.5
90-12-0	1-Methylnaphthalene	37	J	54	5.9
91-57-6	2-Methylnaphthalene	36	J	54	9.5
91-20-3	Naphthalene	43	J	54	5.9
85-01-8	Phenanthrene	330		11	5.2
129-00-0	Pyrene	370		27	5.0

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28033.D
 Lab Smp Id: 680-88592-A-15-A Client Smp ID: CV0715A-CSD
 Inj Date : 28-MAR-2013 21:11
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-15-a
 Misc Info : 680-88592-A-15-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 33
 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	15.260	Weight Extracted
M	26.879	% 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		3.722	3.722	(1.000)	842616	40.0000		
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	656280	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.763	(1.000)	1142409	40.0000		
\$ 14 o-Terphenyl	230		6.010	6.010	(1.043)	125659	7.28524	652.9035	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1269358	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1221074	40.0000		
2 Naphthalene	128		3.733	3.733	(1.003)	10573	0.48198	43.1952	
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	5837	0.39890	35.7497	
4 1-Methylnaphthalene	142		4.222	4.222	(1.134)	5497	0.41248	36.9662	
9 Fluorene	166		5.151	5.151	(1.071)	4925	0.23679	21.2213(Q)	
11 Phenanthrene	178		5.774	5.774	(1.002)	120104	3.63583	325.8433	
12 Anthracene	178		5.810	5.810	(1.008)	25008	0.77409	69.3736	
13 Carbazole	167		5.916	5.921	(1.027)	14089	0.49059	43.9670	
15 Fluoranthene	202		6.610	6.616	(1.147)	164942	4.55948	408.6209	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.780	6.780	(0.880)	142425	4.17520	374.1810
17 Benzo(a)anthracene	228	7.692	7.698	(0.998)	79059	2.15795	193.3956
19 Chrysene	228	7.721	7.721	(1.002)	83945	2.28960	205.1937
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	85483	2.67878	240.0720(M)
21 Benzo(k)fluoranthene	252	8.551	8.562	(0.962)	39802	1.21585	108.9644(M)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	53390	1.72247	154.3675
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	31261	1.07210	96.0815(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.062	(1.132)	11024	0.38652	34.6397(M)
26 Benzo(g,h,i)perylene	276	10.386	10.398	(1.169)	30686	1.00602	90.1593

QC Flag Legend

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

Data File: 1CC28033.D

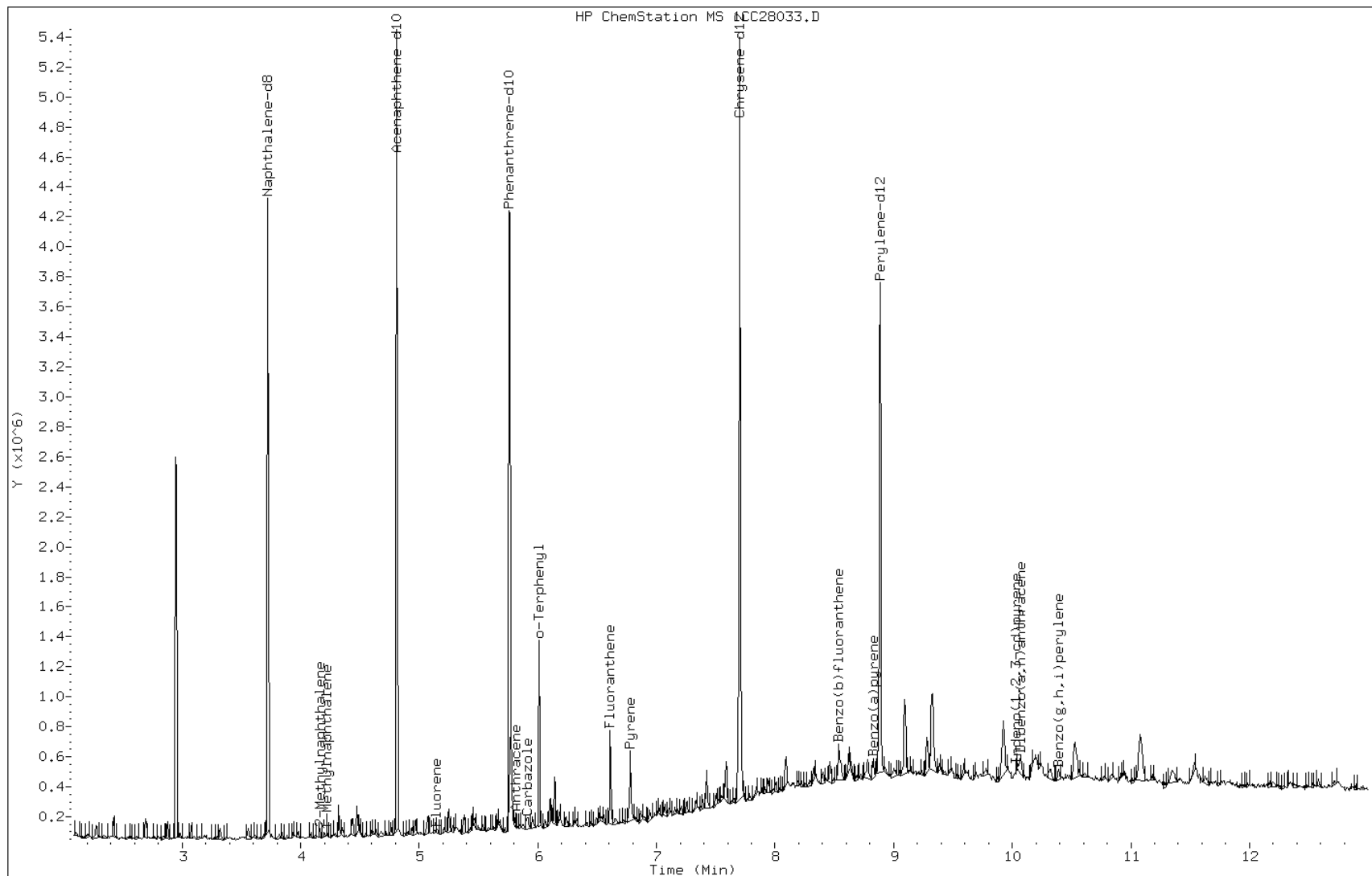
Date: 28-MAR-2013 21:11

Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

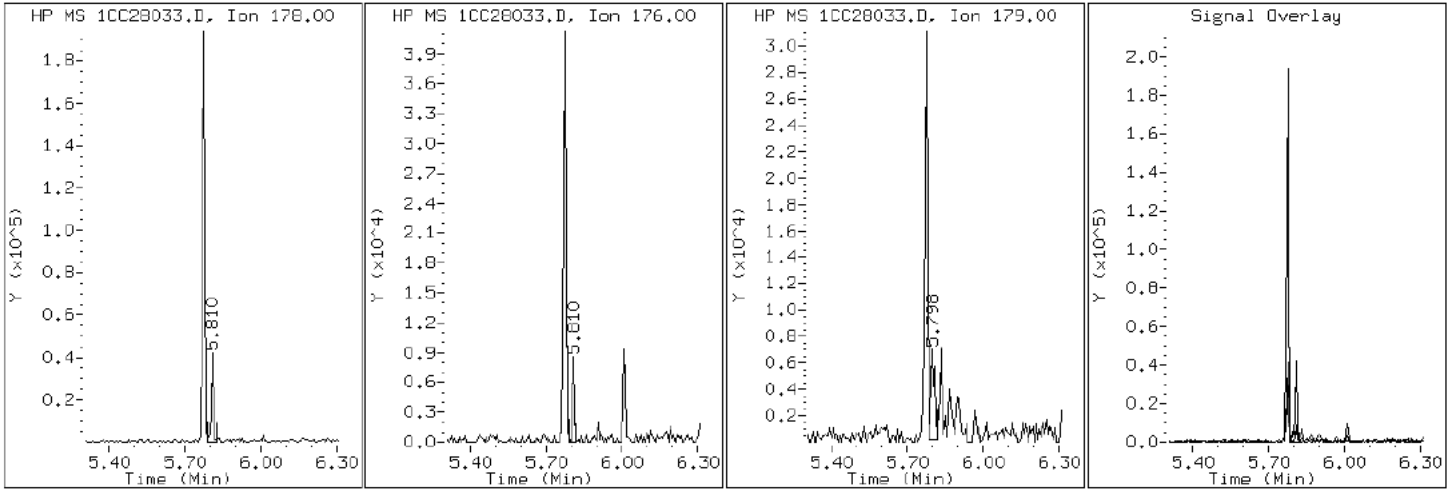
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

12 Anthracene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

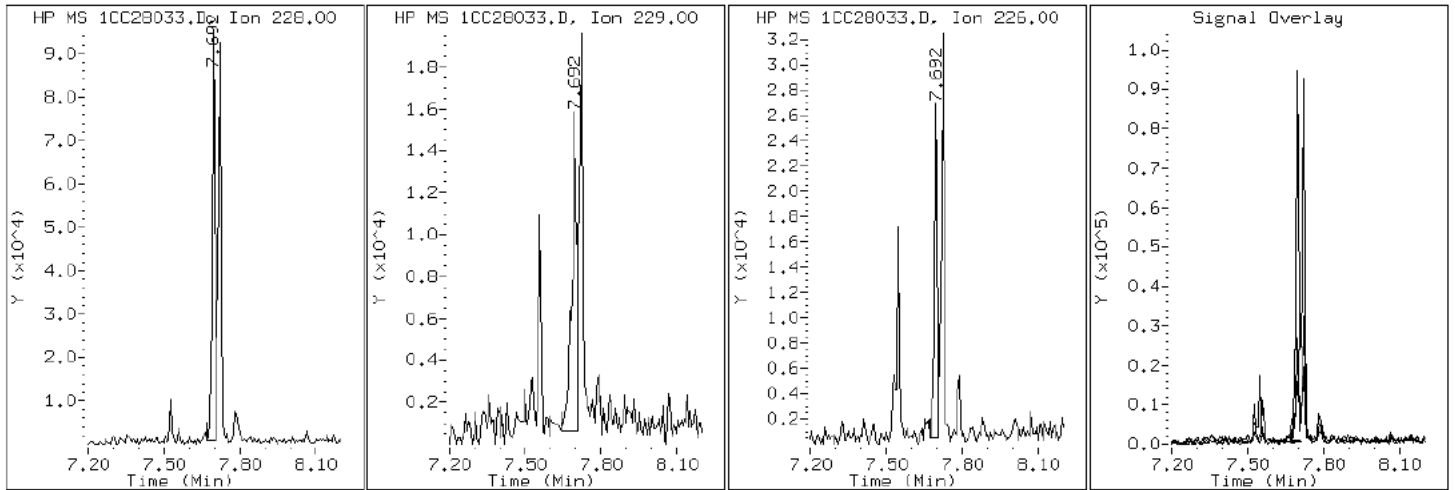
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

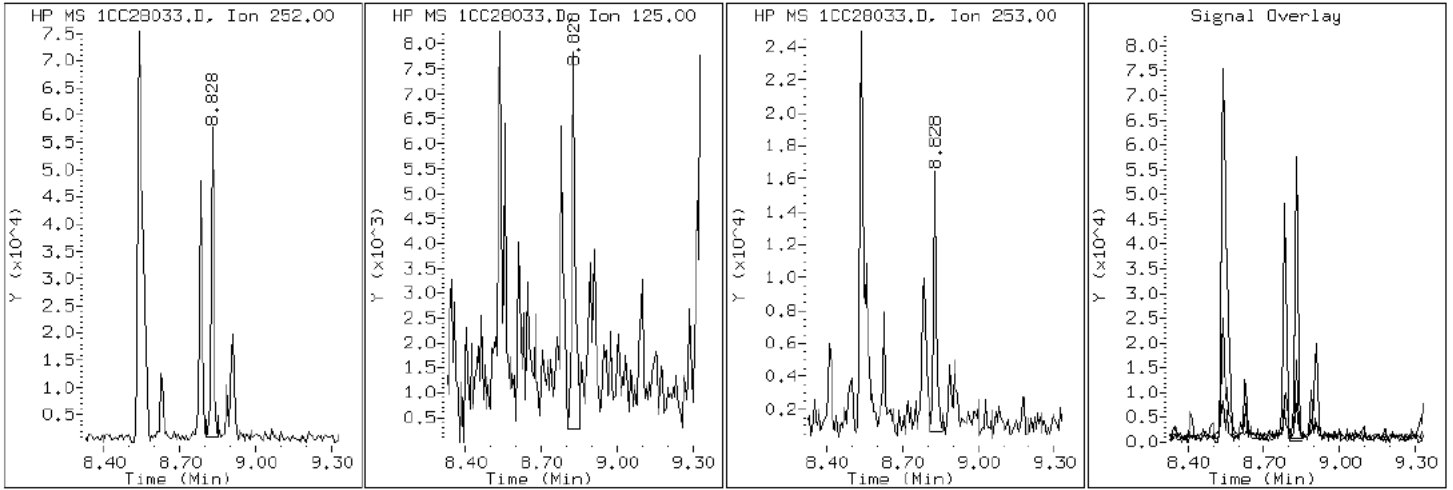
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

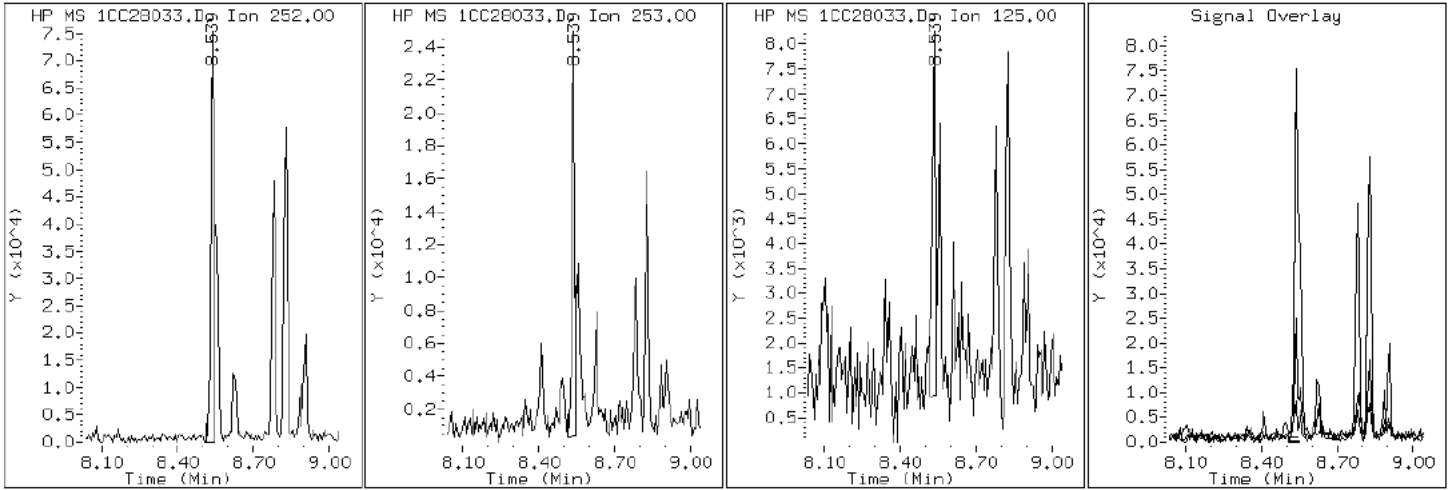
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

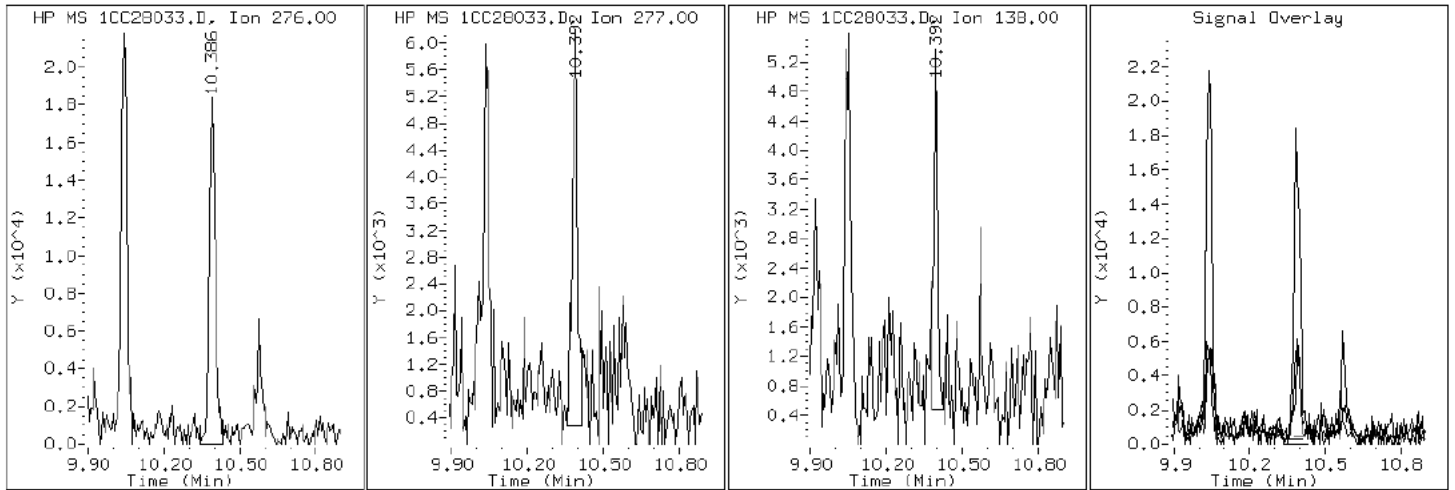
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

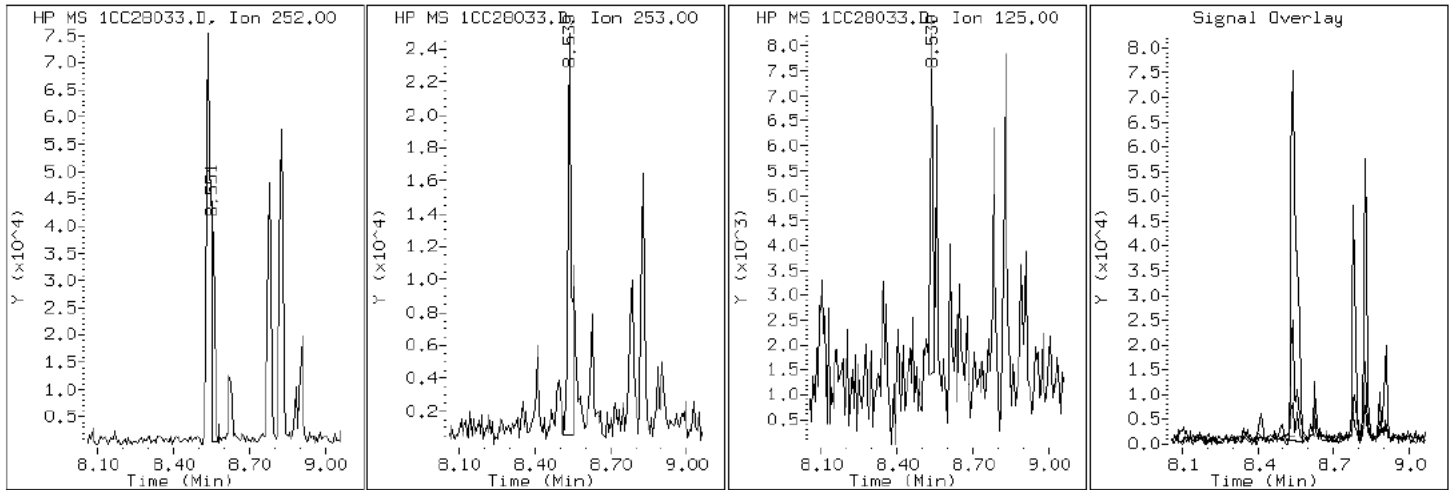
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

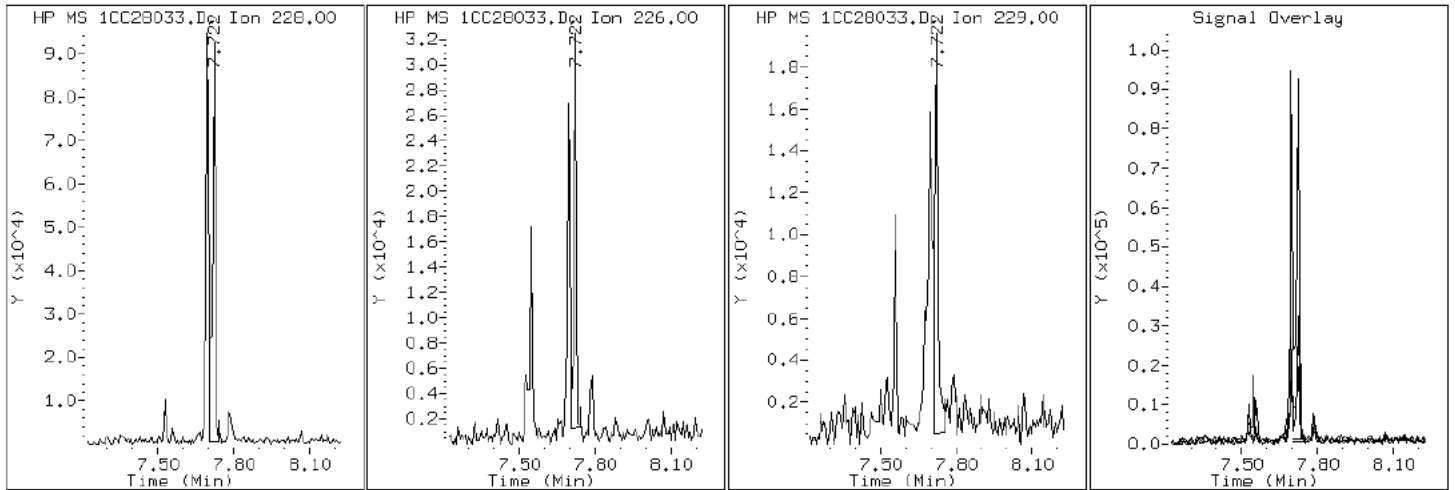
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

19 Chrysene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

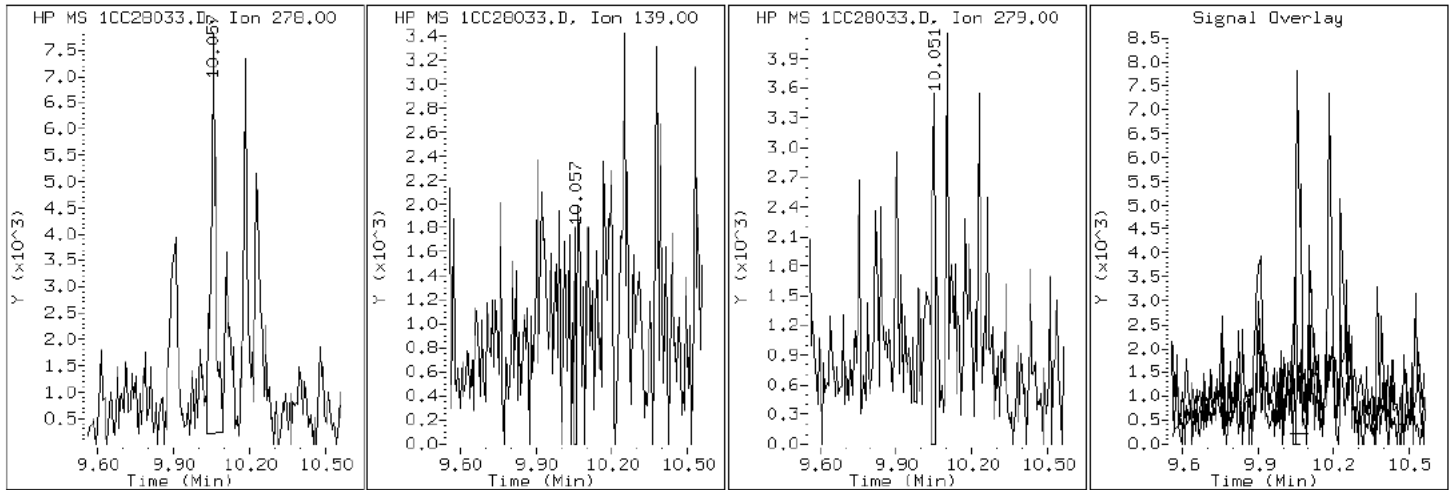
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

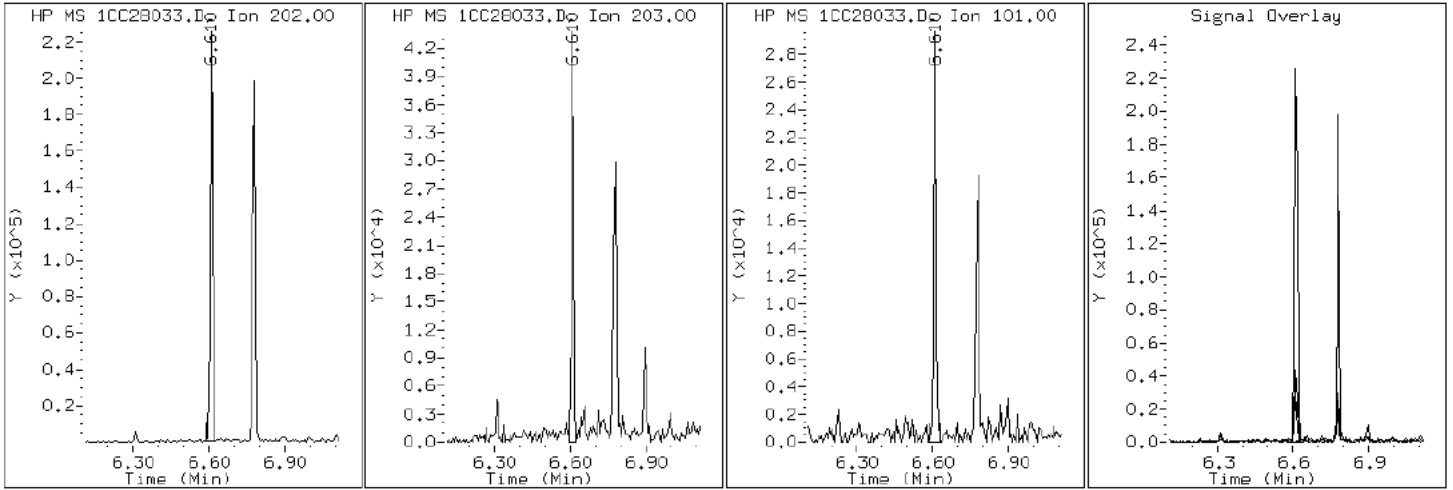
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

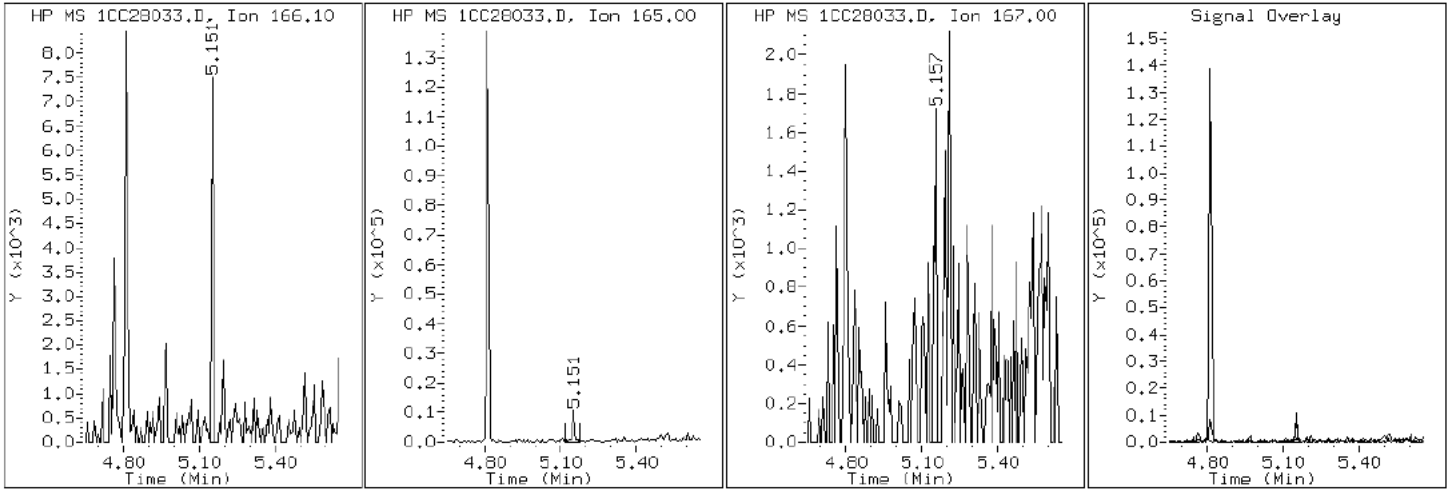
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

9 Fluorene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

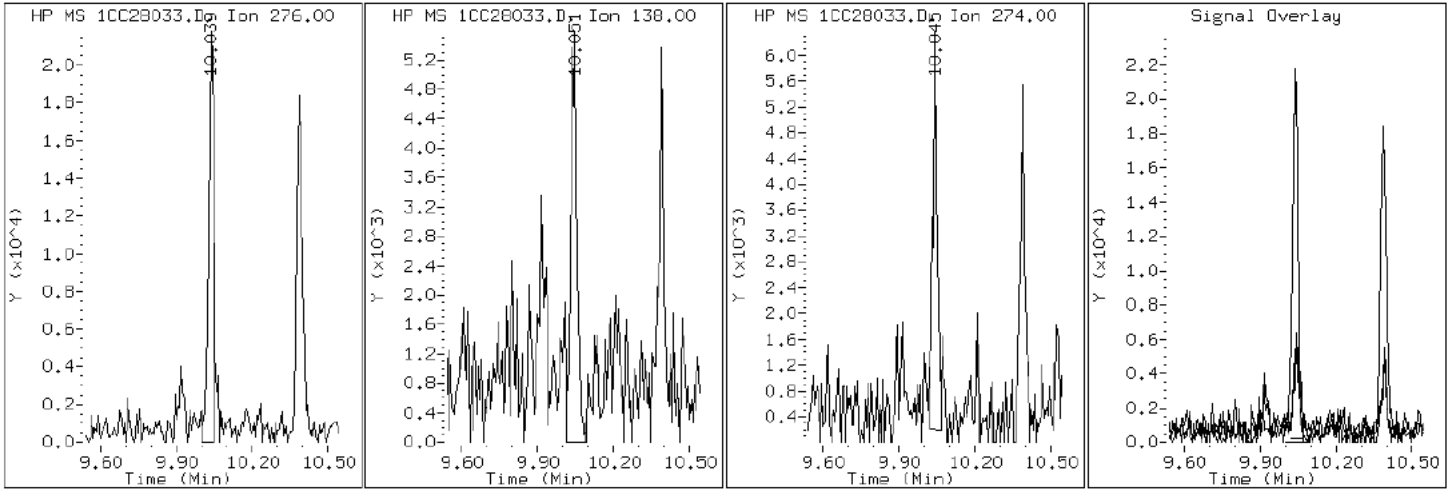
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

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



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

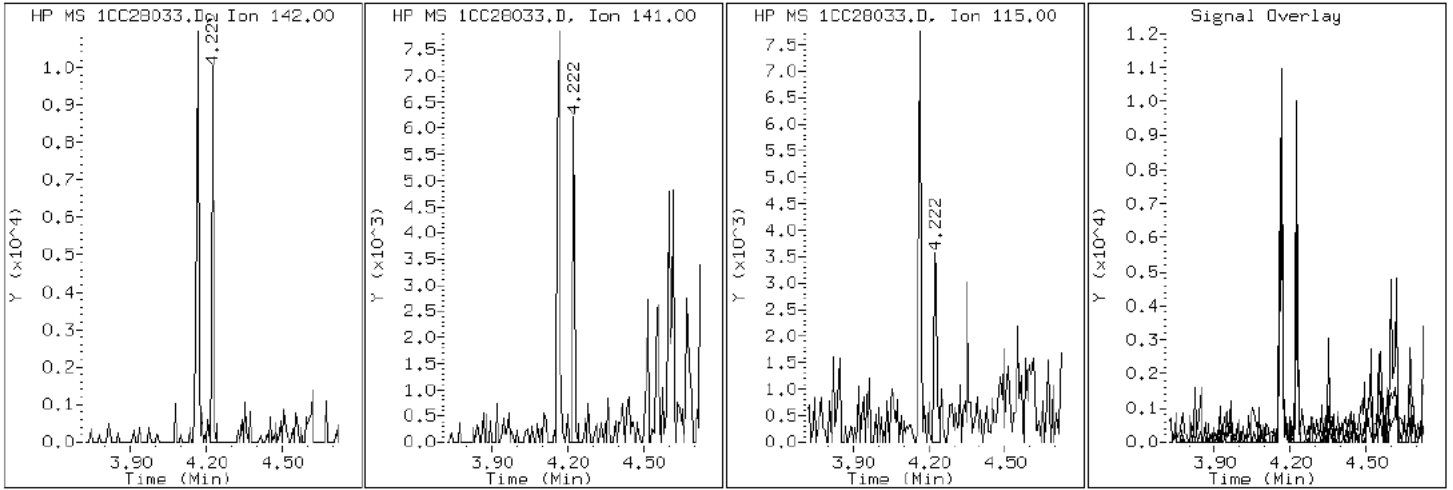
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

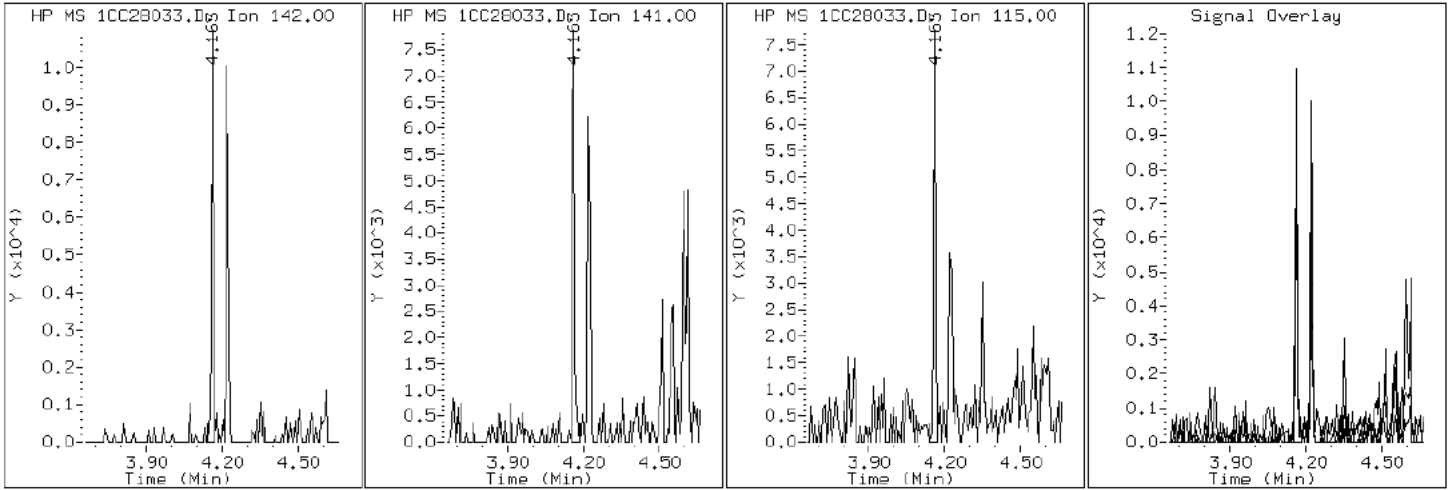
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

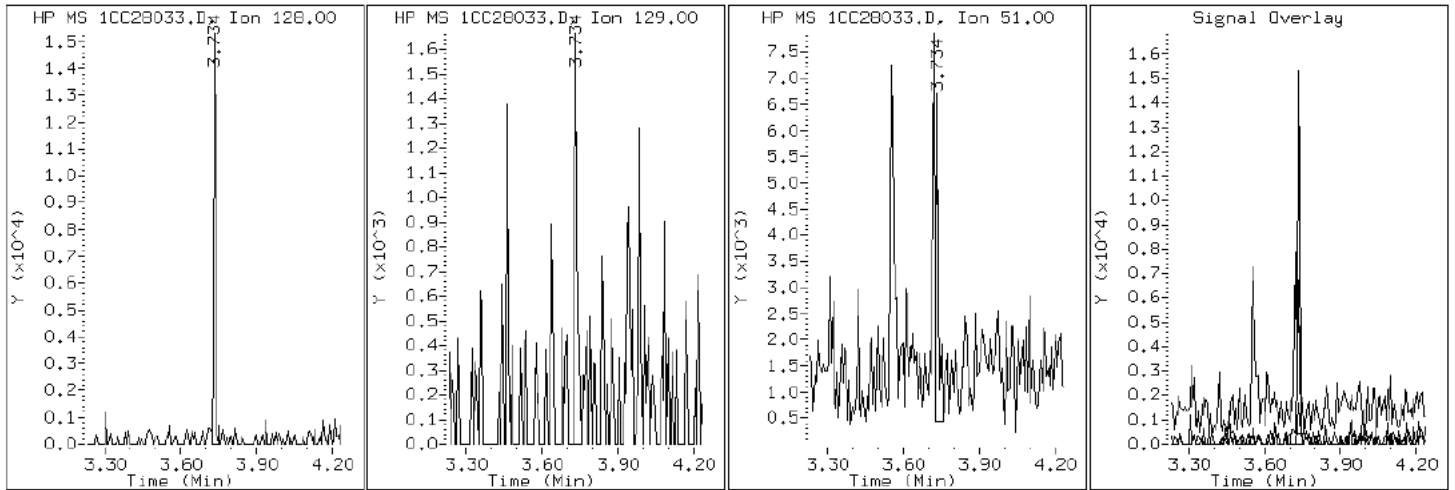
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

2 Naphthalene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

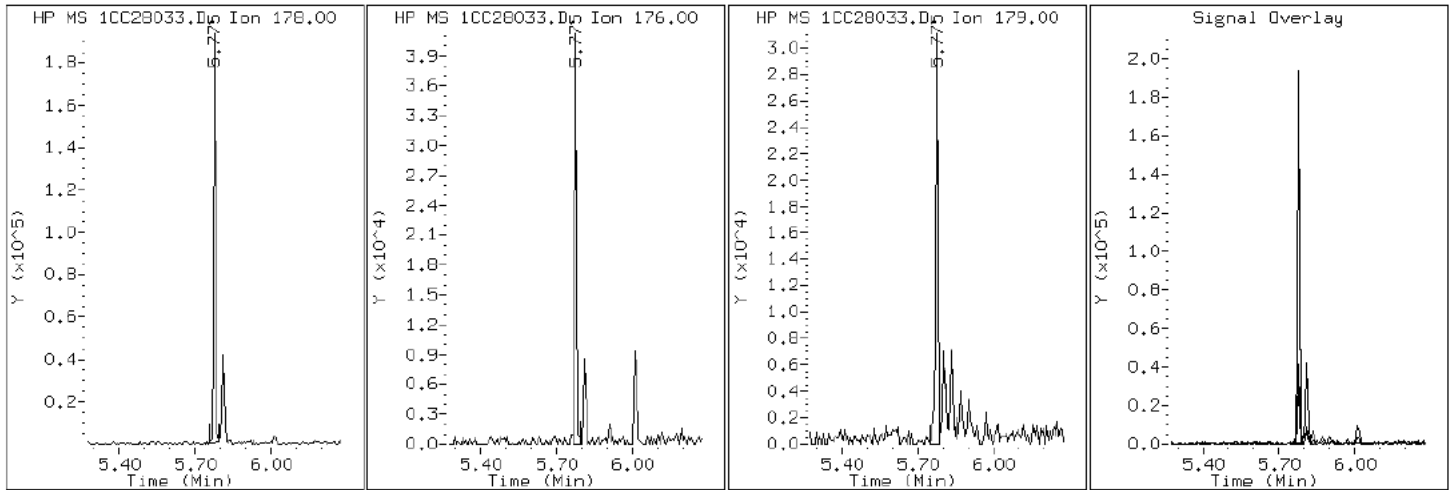
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28033.D

Date: 28-MAR-2013 21:11

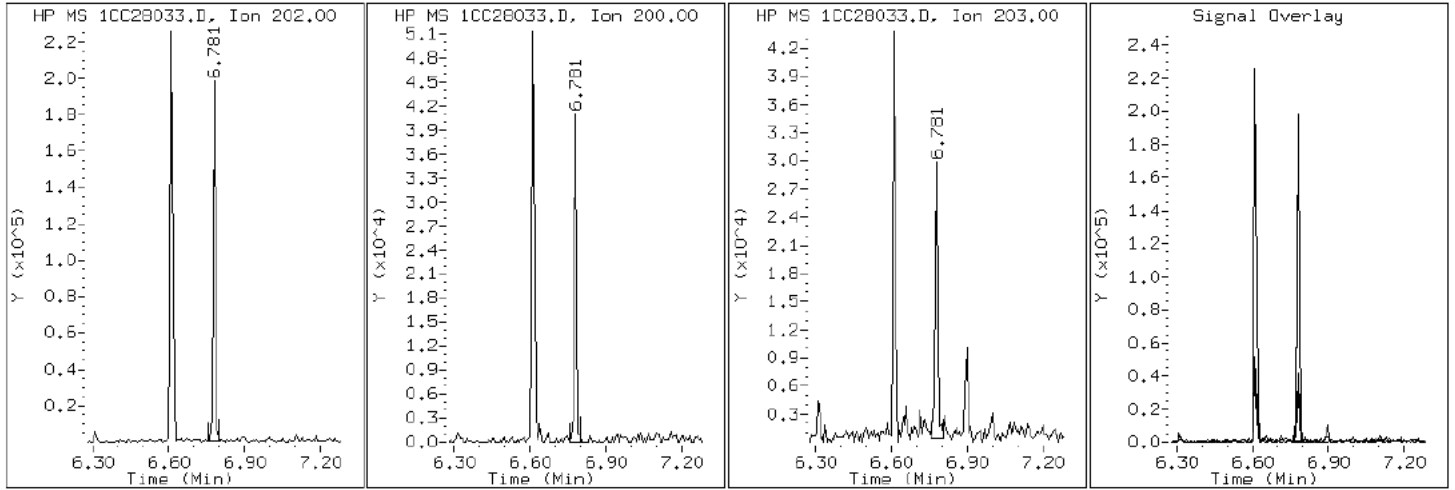
Client ID: CV0715A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88592-a-15-a

Operator: SCC

16 Pyrene

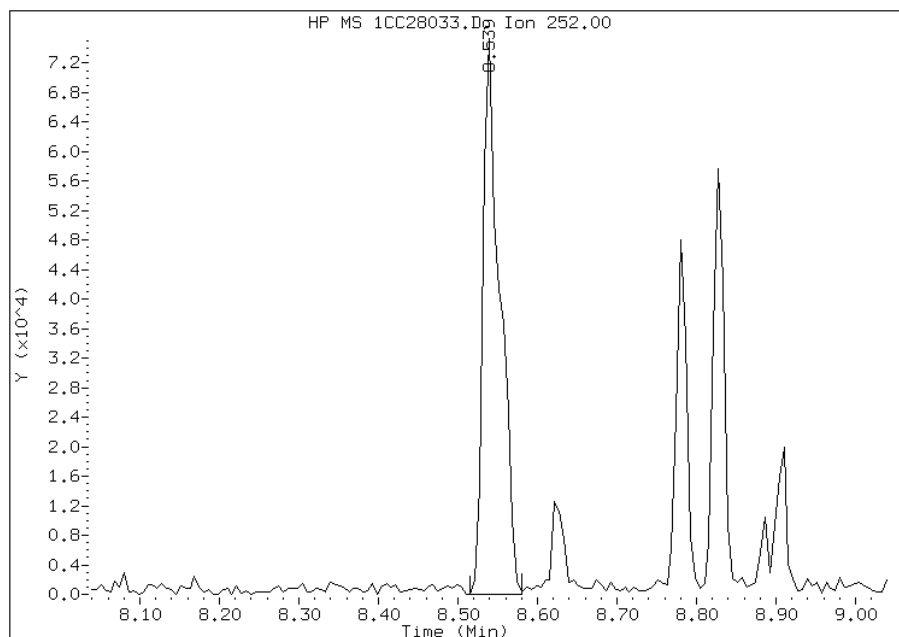


Manual Integration Report

Data File: 1CC28033.D
Inj. Date and Time: 28-MAR-2013 21:11
Instrument ID: BSMC5973.i
Client ID: CV0715A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 04/01/2013

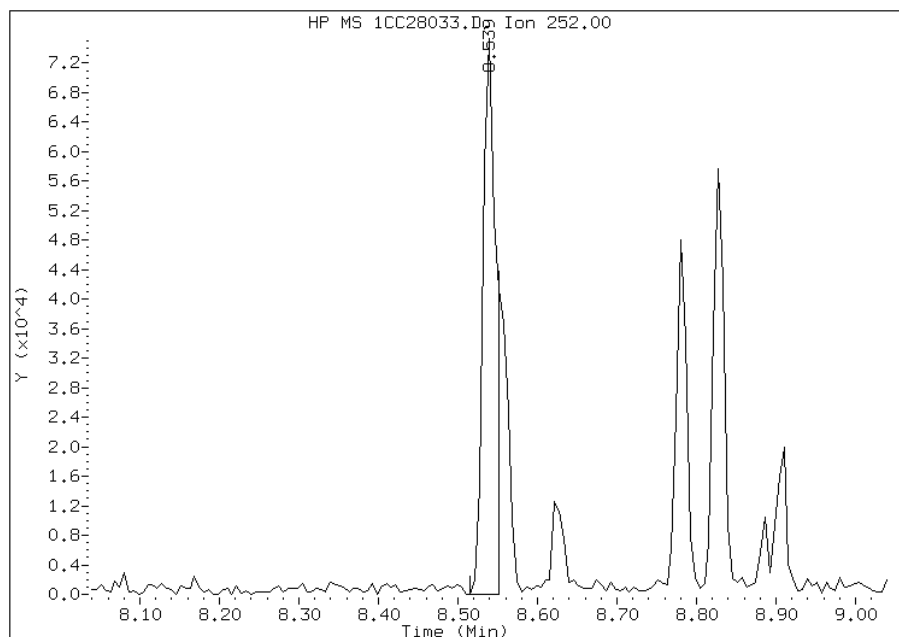
Processing Integration Results

RT: 8.54
Response: 111551
Amount: 3
Conc: 313



Manual Integration Results

RT: 8.54
Response: 85483
Amount: 3
Conc: 240



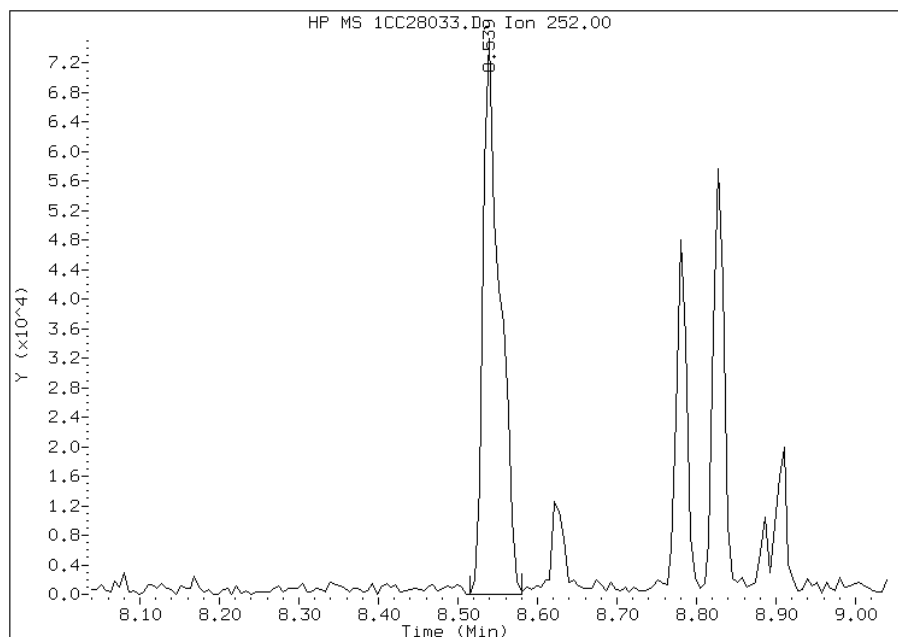
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC28033.D
Inj. Date and Time: 28-MAR-2013 21:11
Instrument ID: BSMC5973.i
Client ID: CV0715A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/01/2013

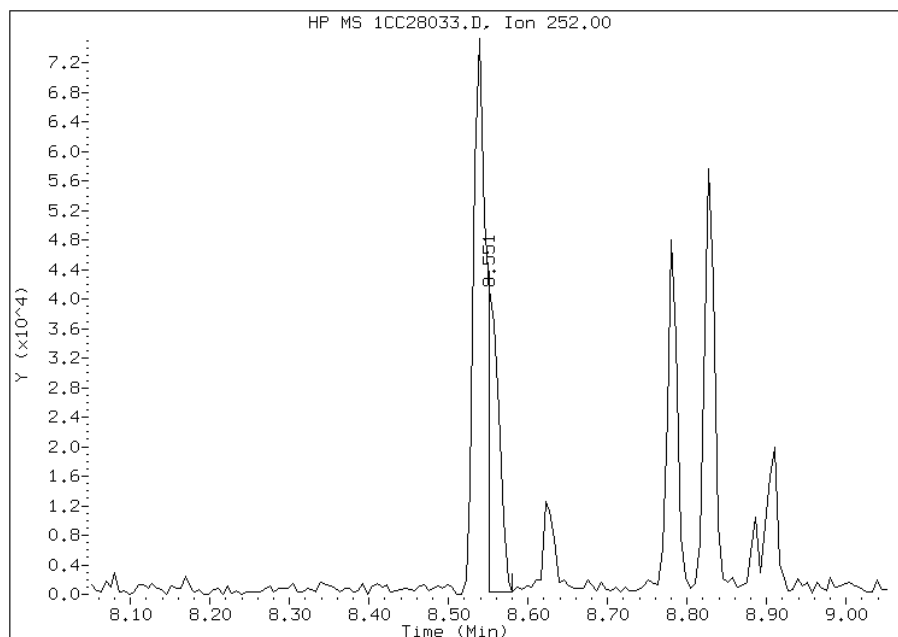
Processing Integration Results

RT: 8.54
Response: 111551
Amount: 3
Conc: 305



Manual Integration Results

RT: 8.55
Response: 39802
Amount: 1
Conc: 109



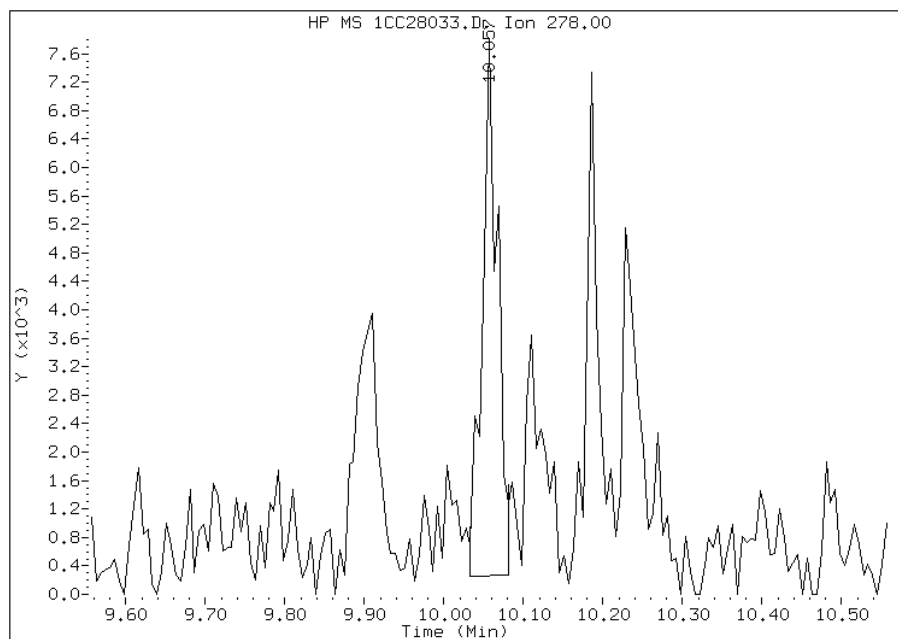
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28033.D
Inj. Date and Time: 28-MAR-2013 21:11
Instrument ID: BSMC5973.i
Client ID: CV0715A-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/01/2013

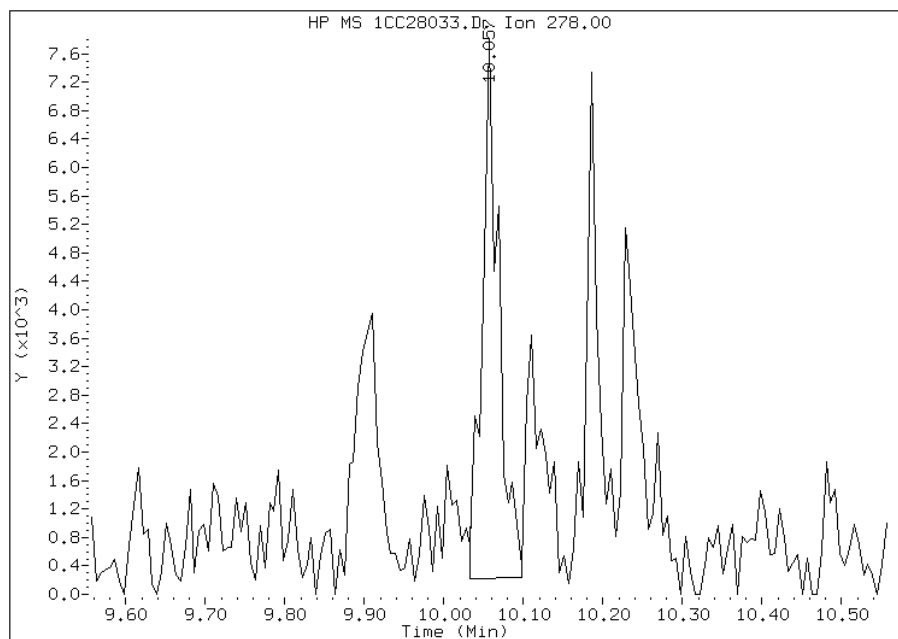
Processing Integration Results

RT: 10.06
Response: 10116
Amount: 0
Conc: 32



Manual Integration Results

RT: 10.06
Response: 11024
Amount: 0
Conc: 35



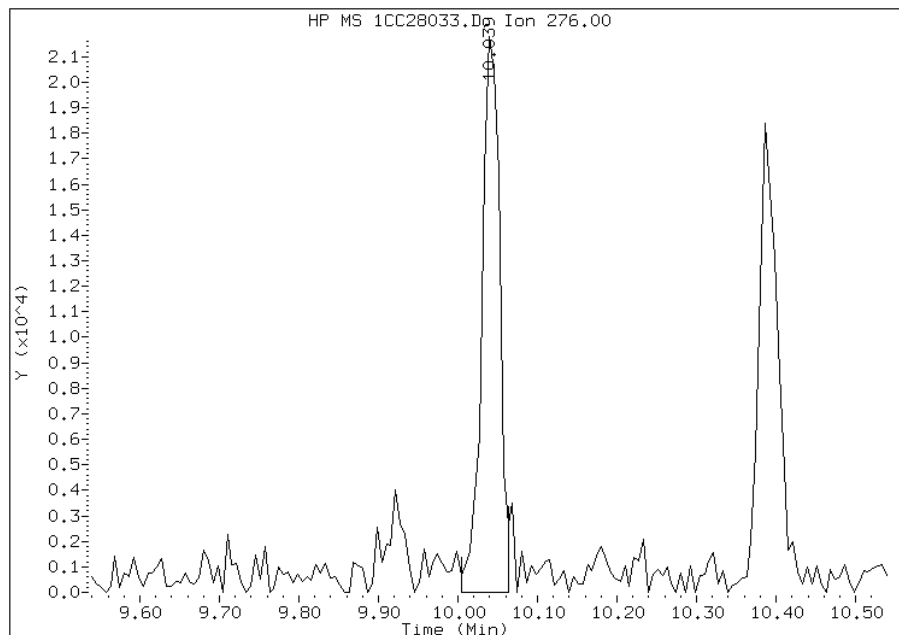
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28033.D
Inj. Date and Time: 28-MAR-2013 21:11
Instrument ID: BSMC5973.i
Client ID: CV0715A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

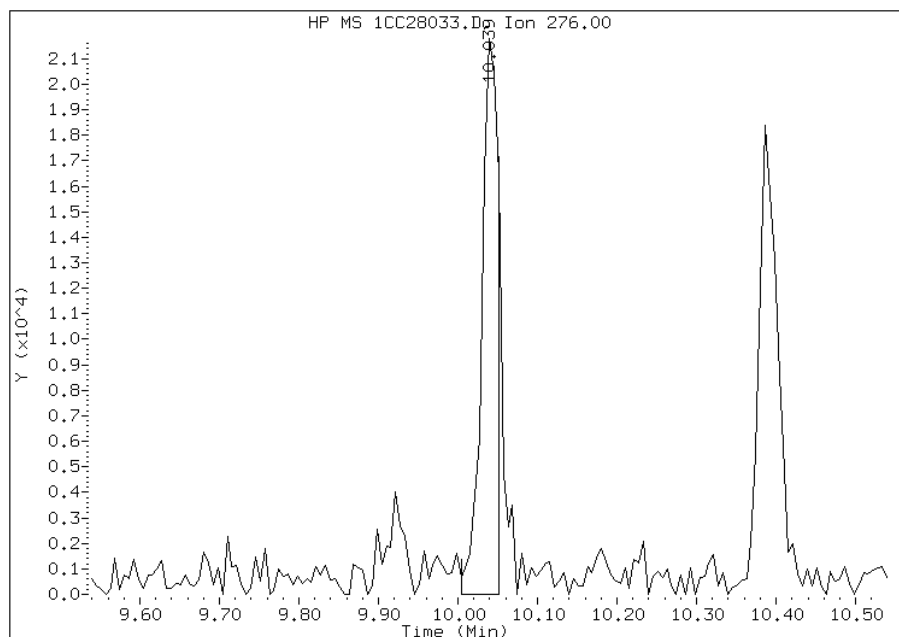
Processing Integration Results

RT: 10.04
Response: 33870
Amount: 1
Conc: 104



Manual Integration Results

RT: 10.04
Response: 31261
Amount: 1
Conc: 96



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:57
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV0862A-CS Lab Sample ID: 680-88592-16
 Matrix: Solid Lab File ID: 1CC28034.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 13:00
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 14.97(g) Date Analyzed: 03/28/2013 21:29
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 23.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	210	U	210	26
120-12-7	Anthracene	44	U	44	22
56-55-3	Benzo[a]anthracene	180		42	20
50-32-8	Benzo[a]pyrene	170		54	27
205-99-2	Benzo[b]fluoranthene	200		64	32
191-24-2	Benzo[g,h,i]perylene	140		100	23
207-08-9	Benzo[k]fluoranthene	110		42	19
218-01-9	Chrysene	240		47	23
53-70-3	Dibenz(a,h)anthracene	83	J	100	21
206-44-0	Fluoranthene	240		100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	100		100	37
90-12-0	1-Methylnaphthalene	85	J	210	23
91-57-6	2-Methylnaphthalene	120	J	210	37
91-20-3	Naphthalene	68	J	210	23
85-01-8	Phenanthrene	170		42	20
129-00-0	Pyrene	260		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	78		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032813.b\1CC28034.D
 Lab Smp Id: 680-88592-A-16-A Client Smp ID: CV0862A-CS
 Inj Date : 28-MAR-2013 21:29
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-16-a
 Misc Info : 680-88592-A-16-A
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 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:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	23.077	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.721	3.722	(1.000)	791948	40.0000	
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	614538	40.0000	
* 10 Phenanthrene-d10	188		5.762	5.763	(1.000)	1125085	40.0000	
\$ 14 o-Terphenyl	230		6.009	6.010	(1.043)	33026	1.94421	675.3427
* 18 Chrysene-d12	240		7.703	7.704	(1.000)	1191040	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1153131	40.0000	
2 Naphthalene	128		3.739	3.733	(1.005)	4013	0.19464	67.6109(Q)
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	4557	0.33135	115.0991
4 1-Methylnaphthalene	142		4.221	4.222	(1.134)	3049	0.24342	84.5563
11 Phenanthrene	178		5.774	5.774	(1.002)	15884	0.48825	169.5993
13 Carbazole	167		5.921	5.921	(1.028)	3188	0.11272	39.1542
15 Fluoranthene	202		6.609	6.616	(1.147)	24286	0.68167	236.7871
16 Pyrene	202		6.780	6.780	(0.880)	23640	0.73858	256.5531
17 Benzo(a)anthracene	228		7.692	7.698	(0.998)	17610	0.51228	177.9463

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
19 Chrysene	228	7.721	7.721	(1.002)	24217	0.70395	244.5254
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	17619	0.58466	203.0873
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	9620	0.31118	108.0923
22 Benzo(a)pyrene	252	8.833	8.827	(0.994)	14609	0.49909	173.3630
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	8134	0.29539	102.6080(M)
25 Dibenzo(a,h)anthracene	278	10.050	10.062	(1.131)	6410	0.23799	82.6673(M)
26 Benzo(g,h,i)perylene	276	10.392	10.398	(1.169)	11393	0.39552	137.3879

QC Flag Legend

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

Data File: 1CC28034.D

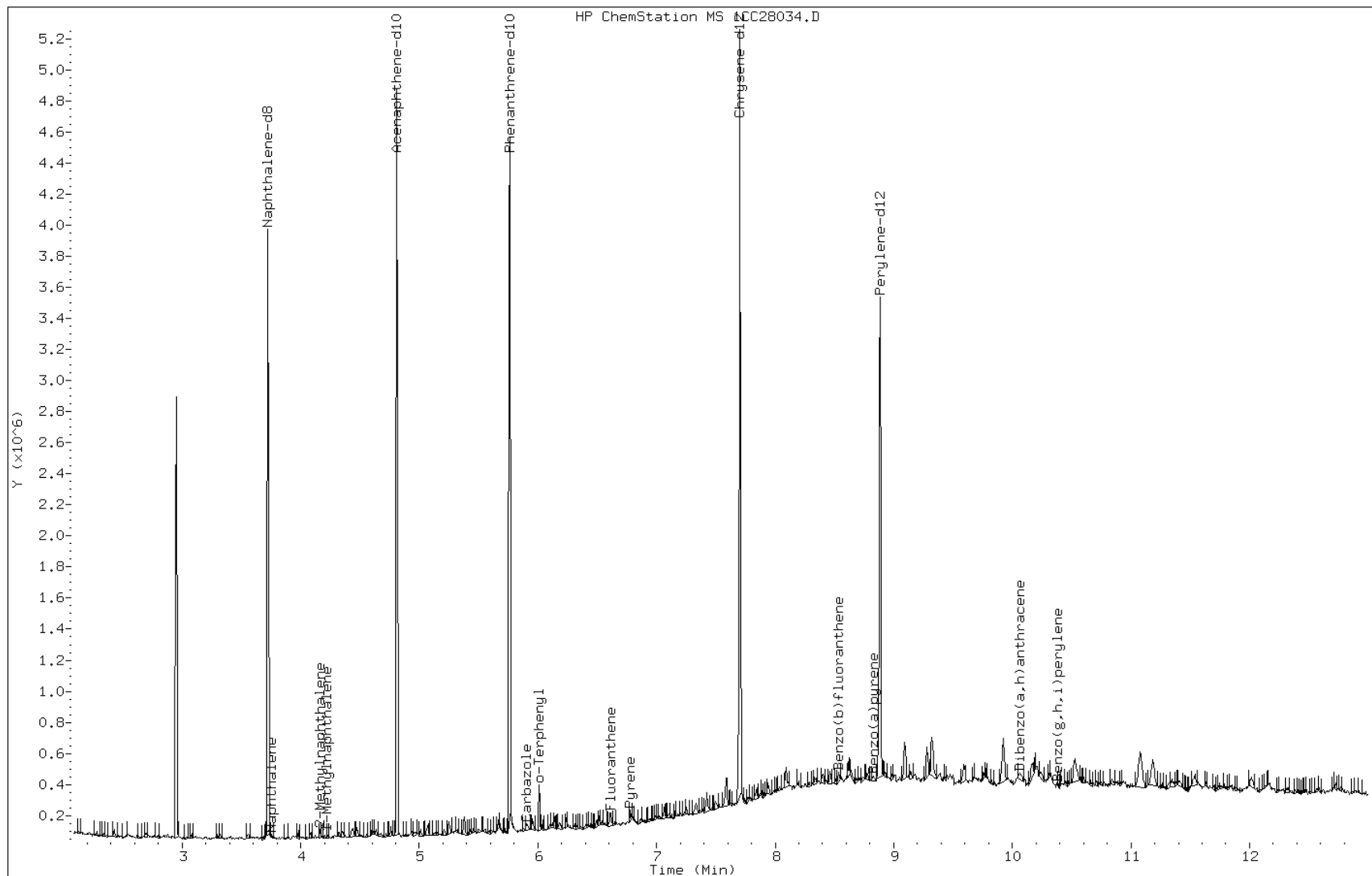
Date: 28-MAR-2013 21:29

Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

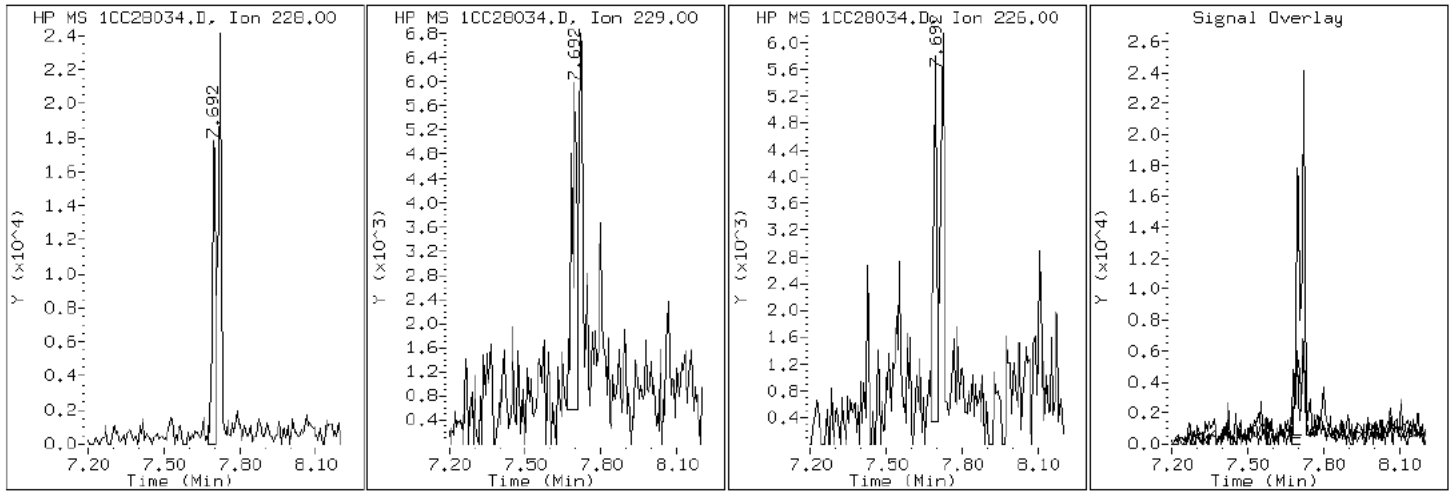
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

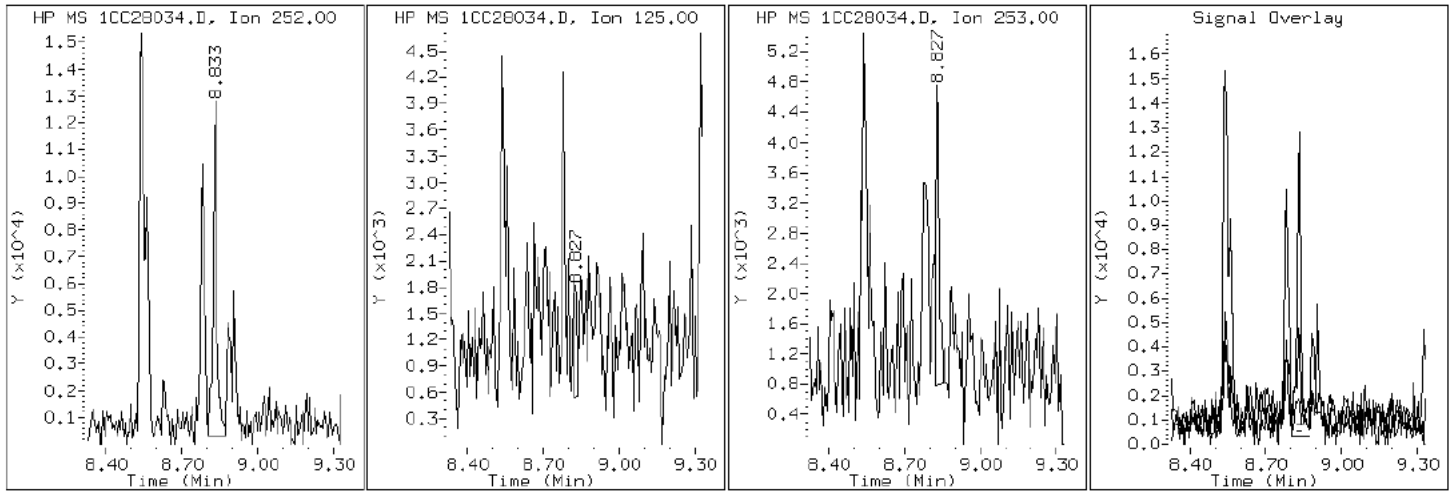
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

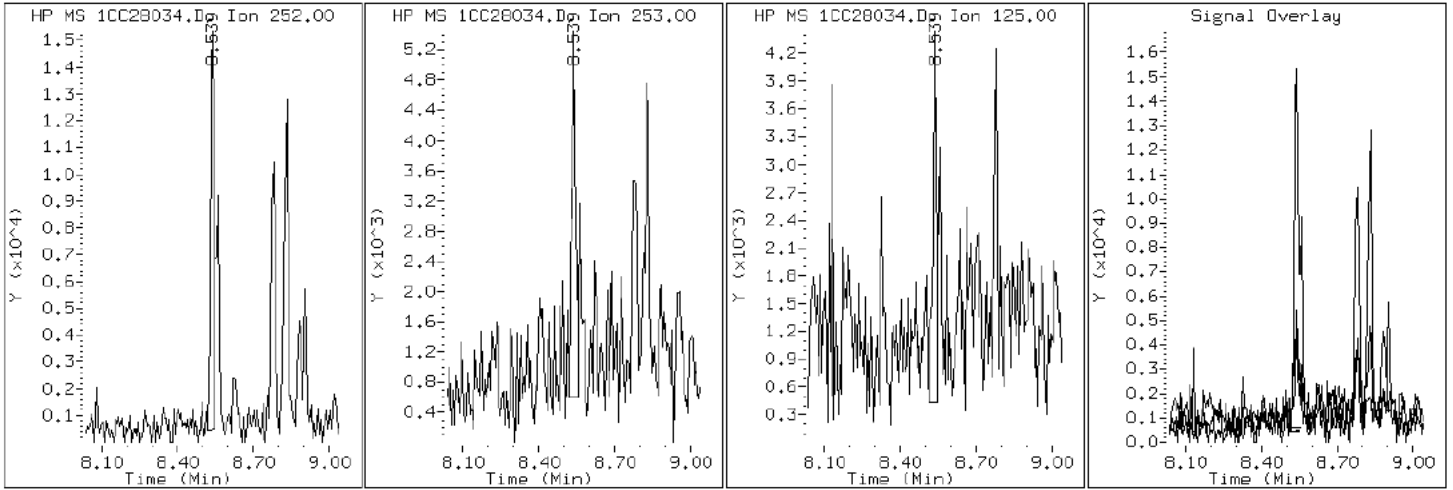
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

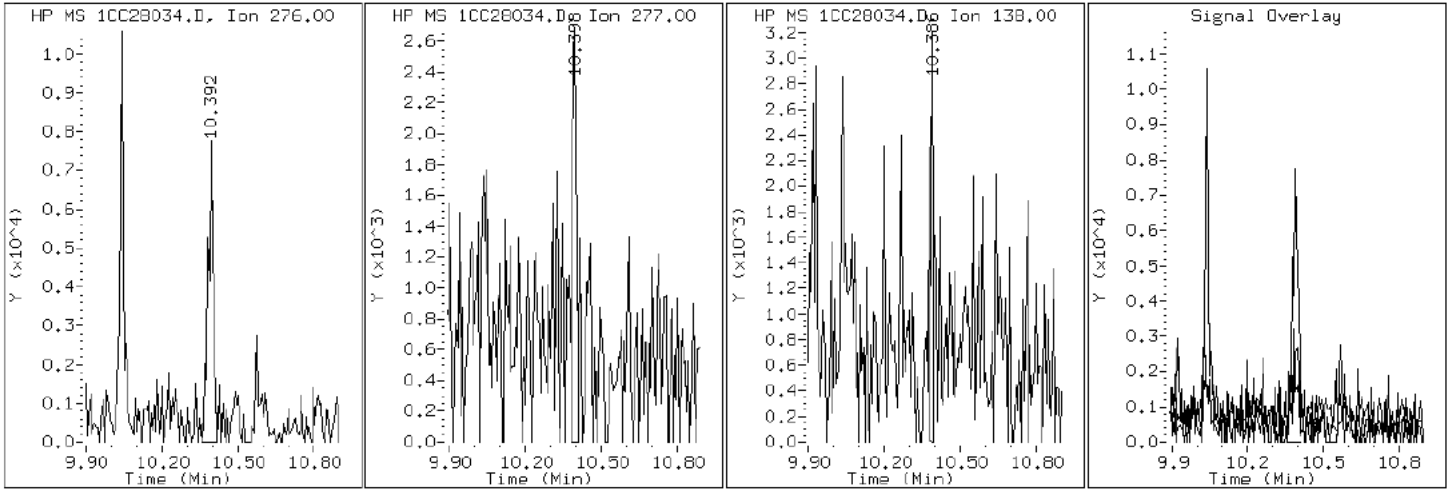
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

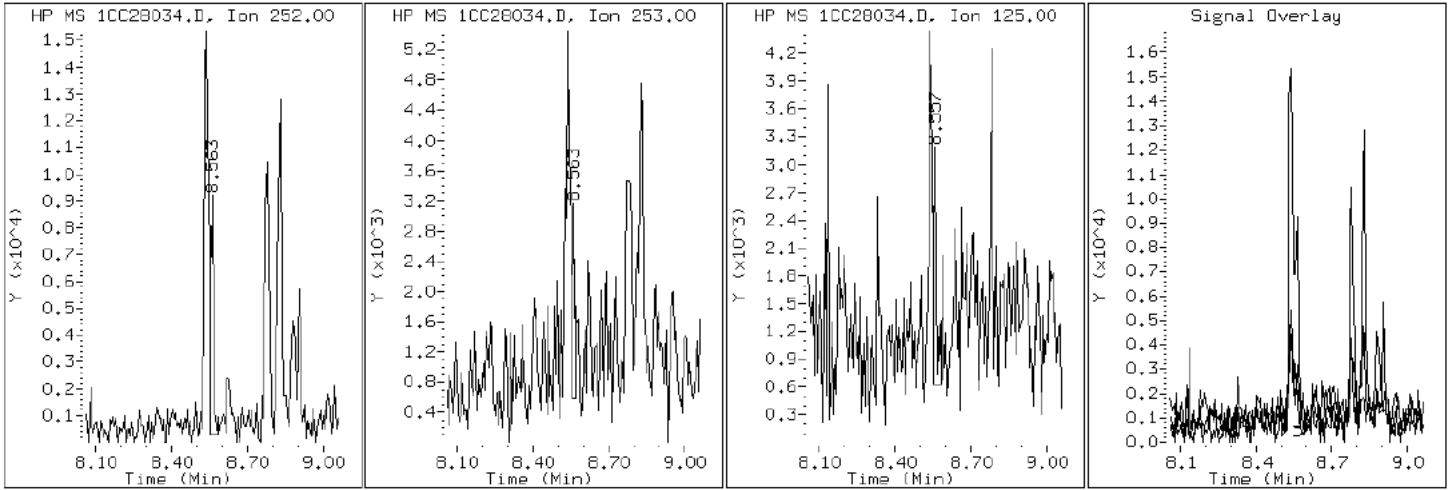
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

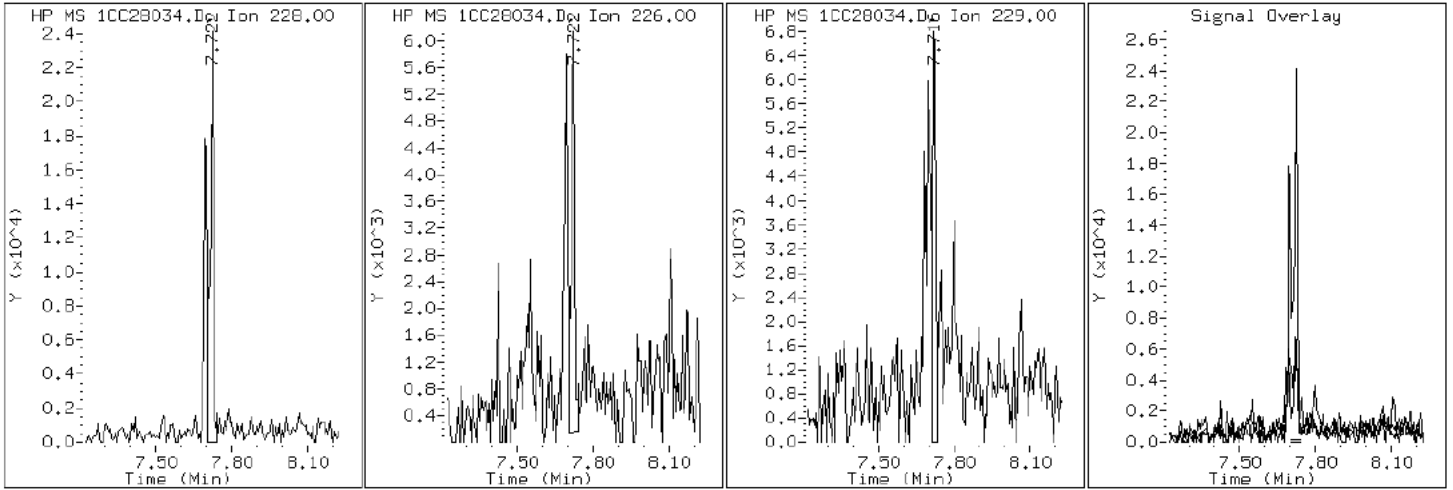
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

19 Chrysene



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

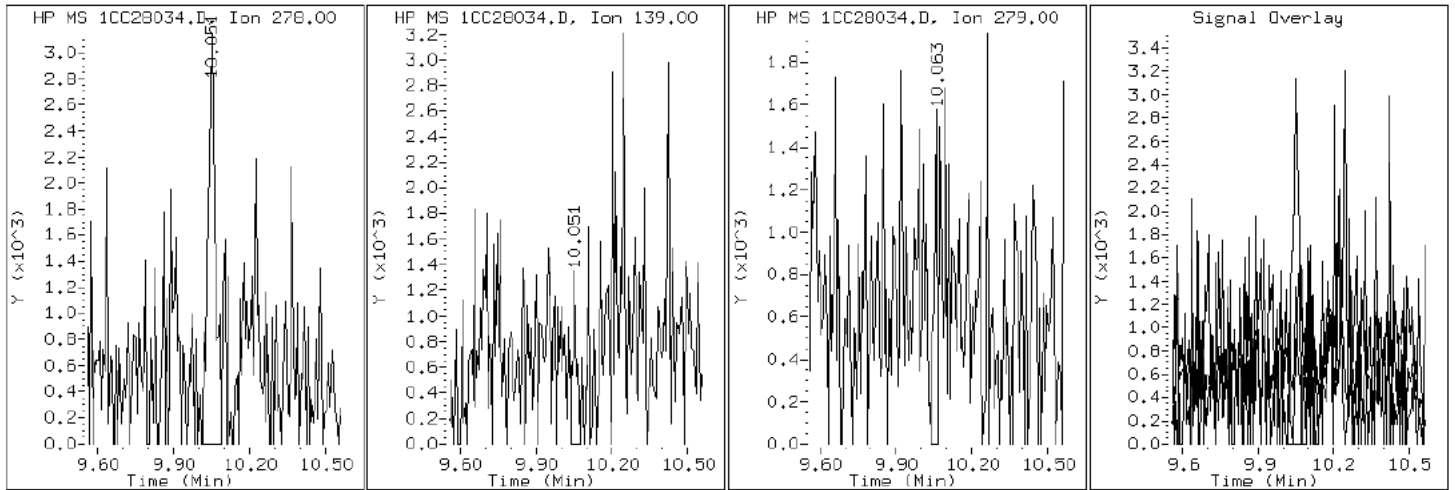
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

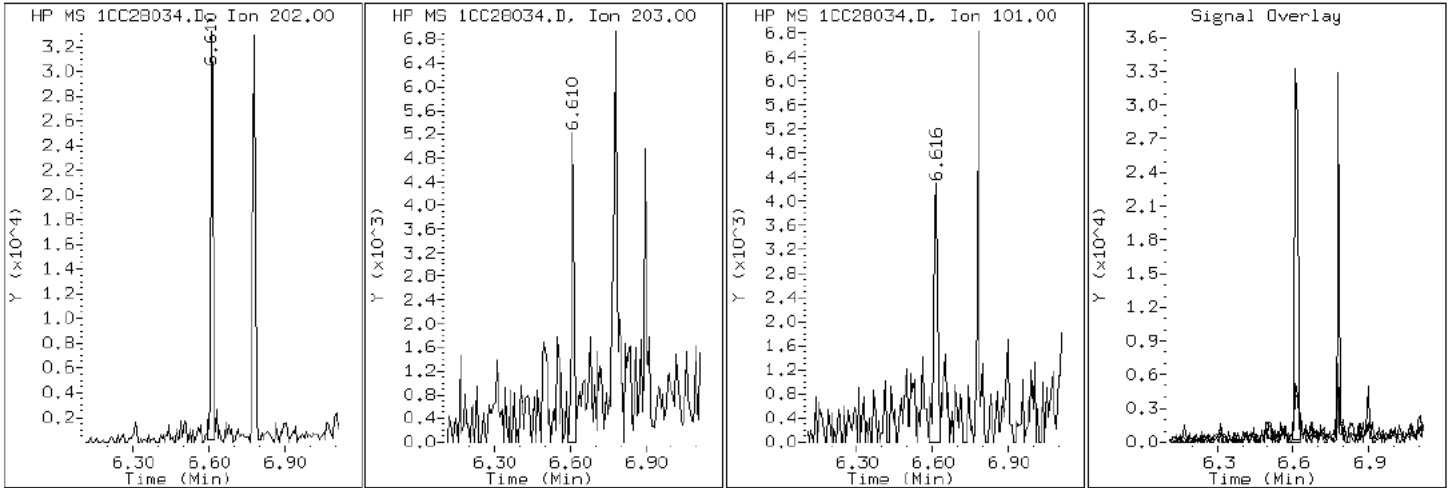
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

15 Fluoranthene



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

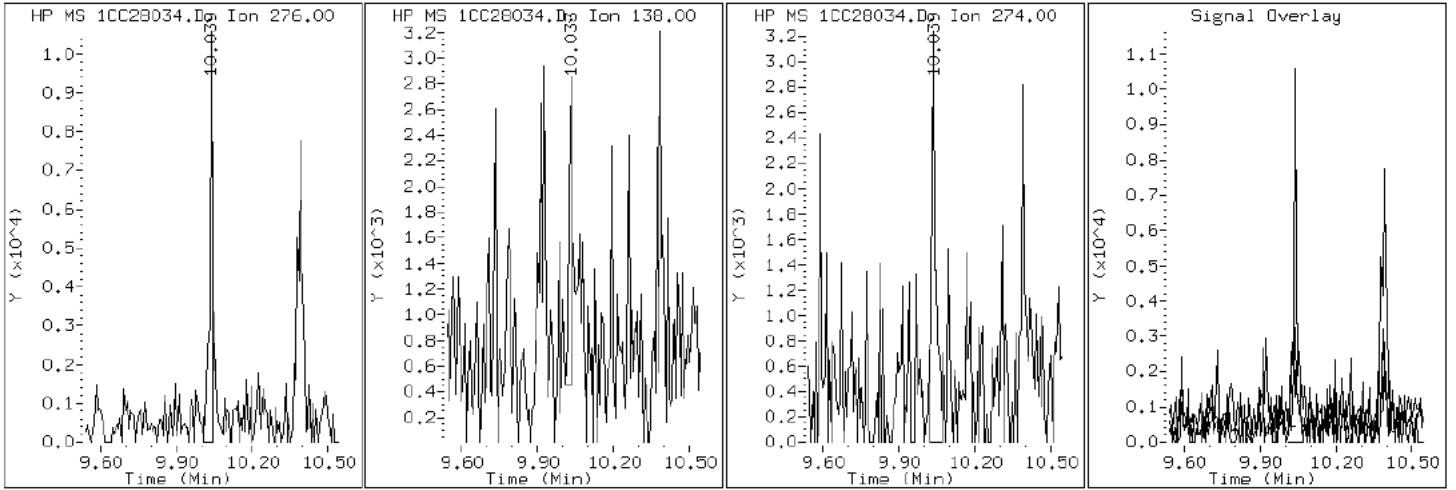
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

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



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

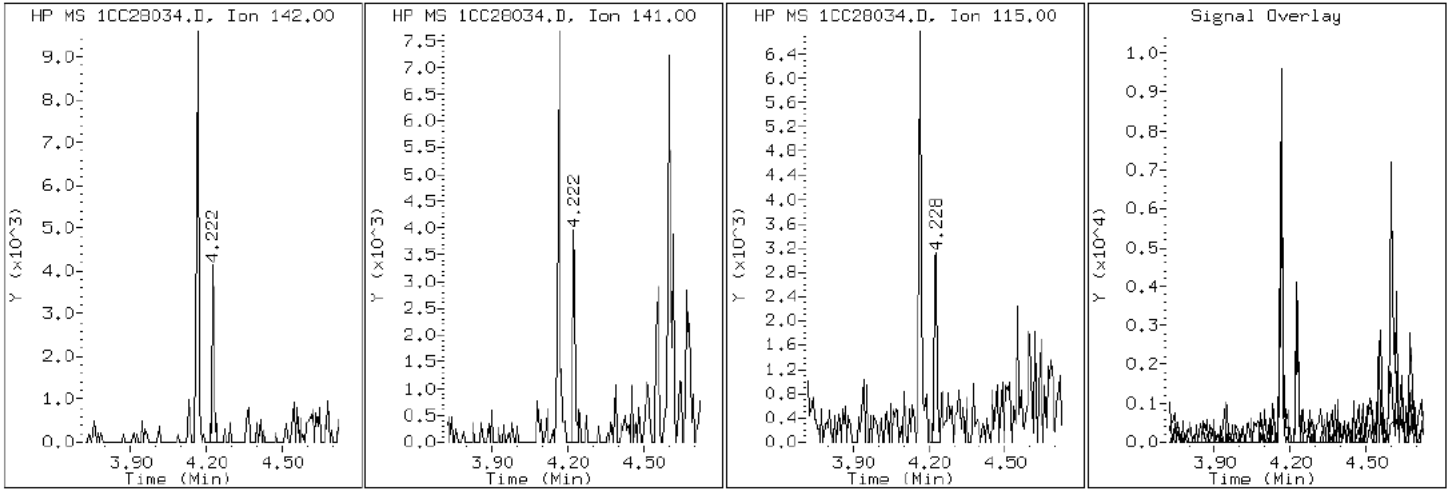
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

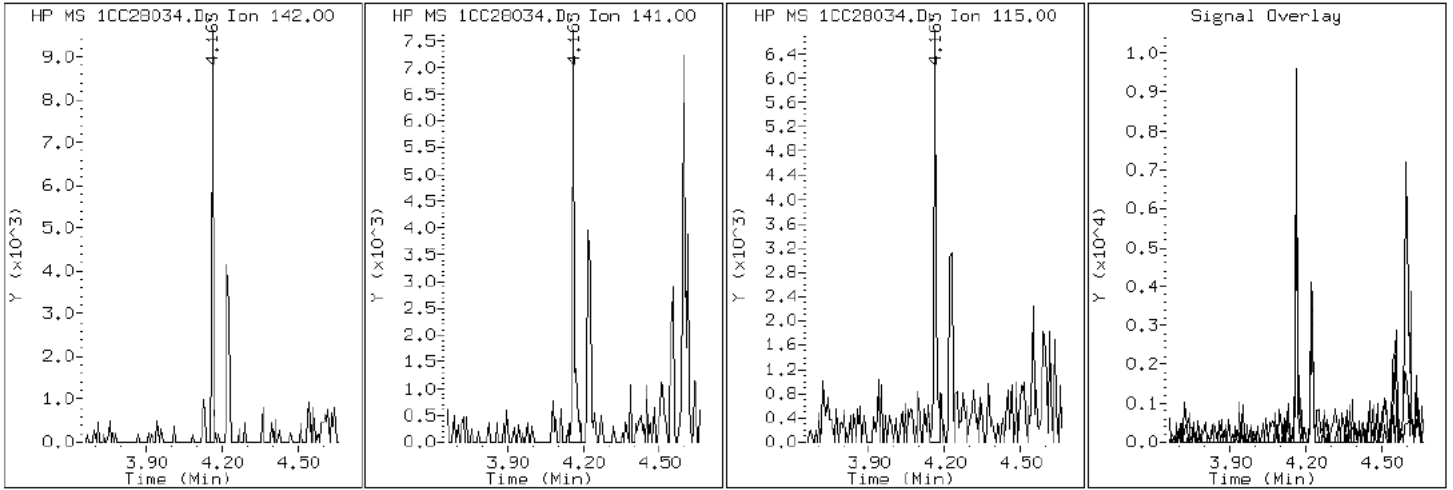
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

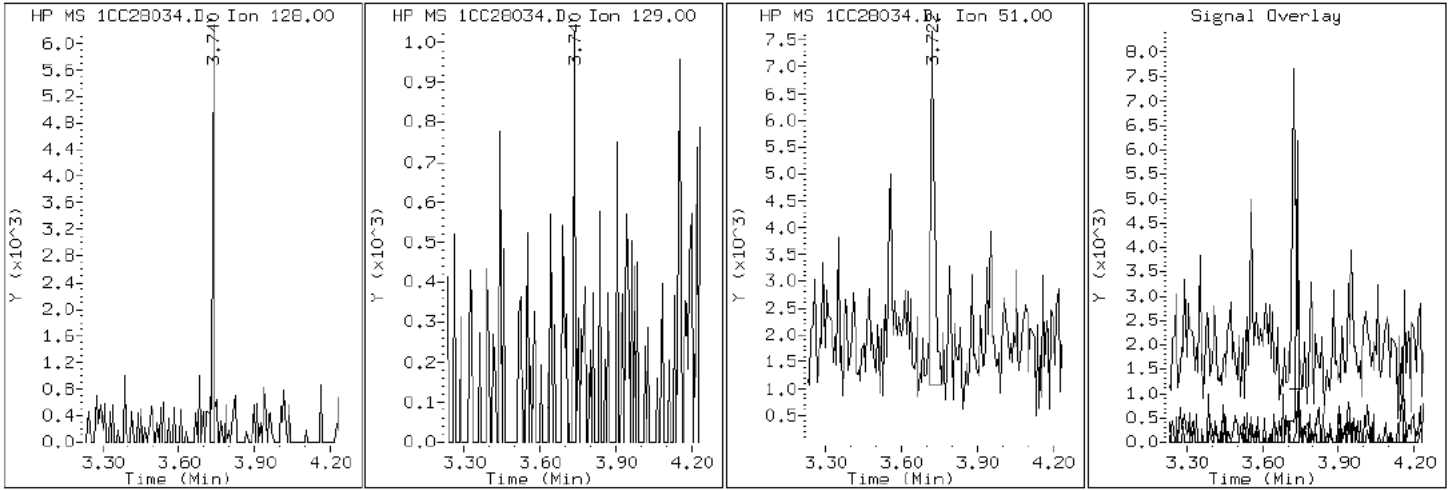
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

2 Naphthalene



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

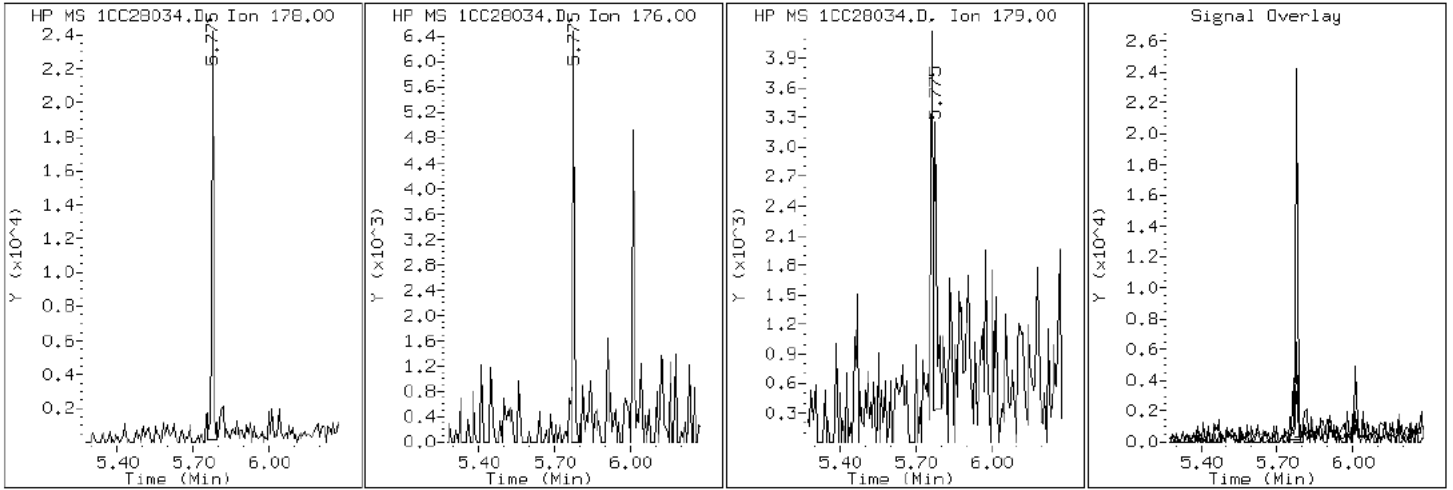
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

11 Phenanthrene



Data File: 1CC28034.D

Date: 28-MAR-2013 21:29

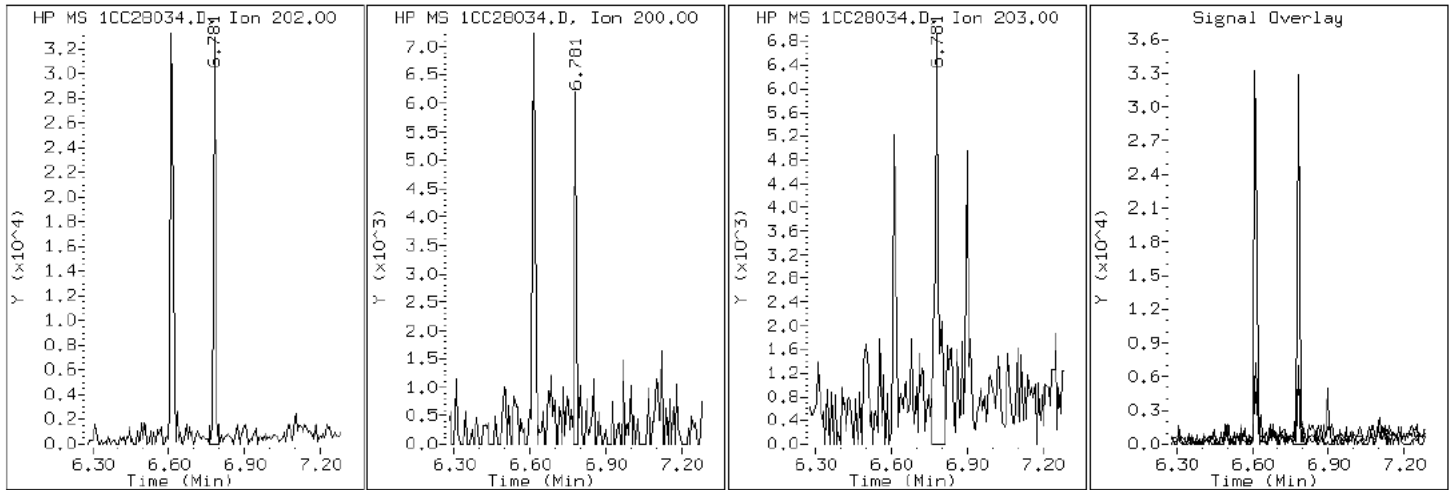
Client ID: CV0862A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-16-a

Operator: SCC

16 Pyrene

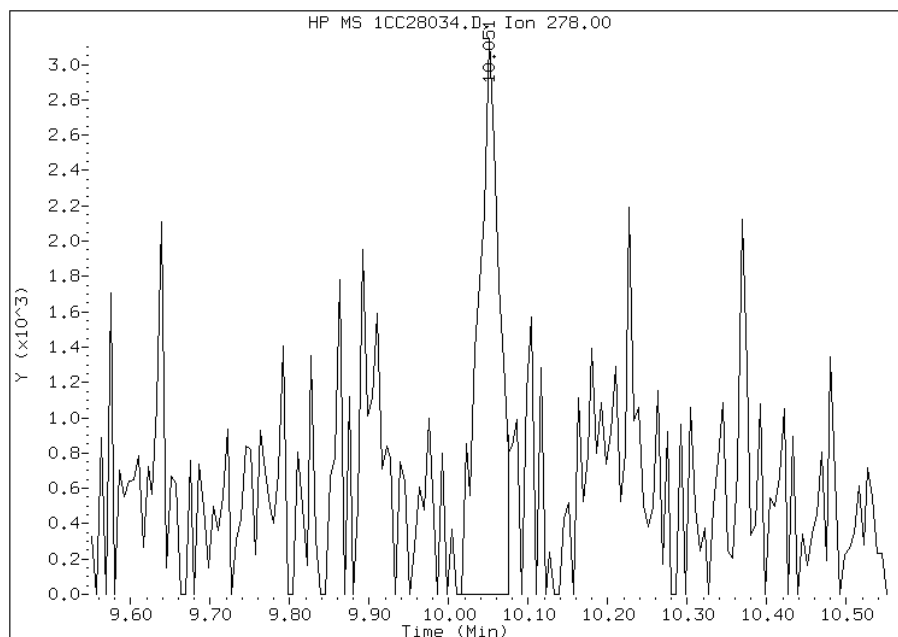


Manual Integration Report

Data File: 1CC28034.D
Inj. Date and Time: 28-MAR-2013 21:29
Instrument ID: BSMC5973.i
Client ID: CV0862A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/01/2013

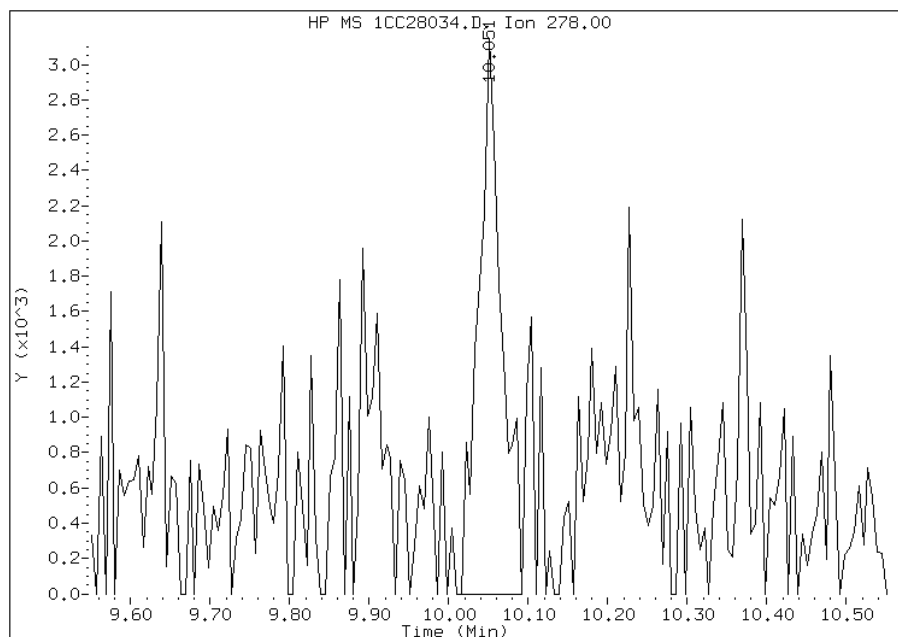
Processing Integration Results

RT: 10.05
Response: 5750
Amount: 0
Conc: 74



Manual Integration Results

RT: 10.05
Response: 6410
Amount: 0
Conc: 83



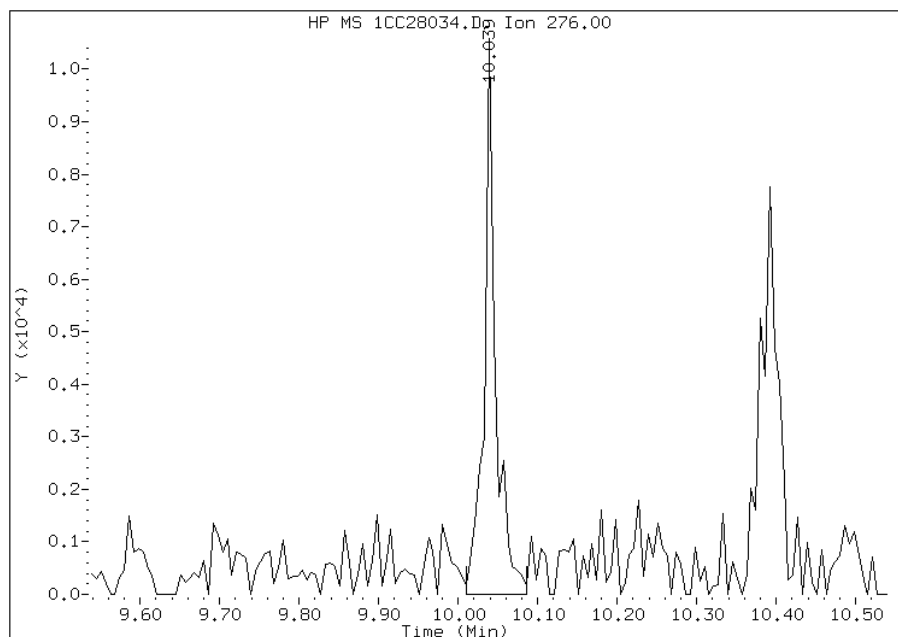
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC28034.D
Inj. Date and Time: 28-MAR-2013 21:29
Instrument ID: BSMC5973.i
Client ID: CV0862A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

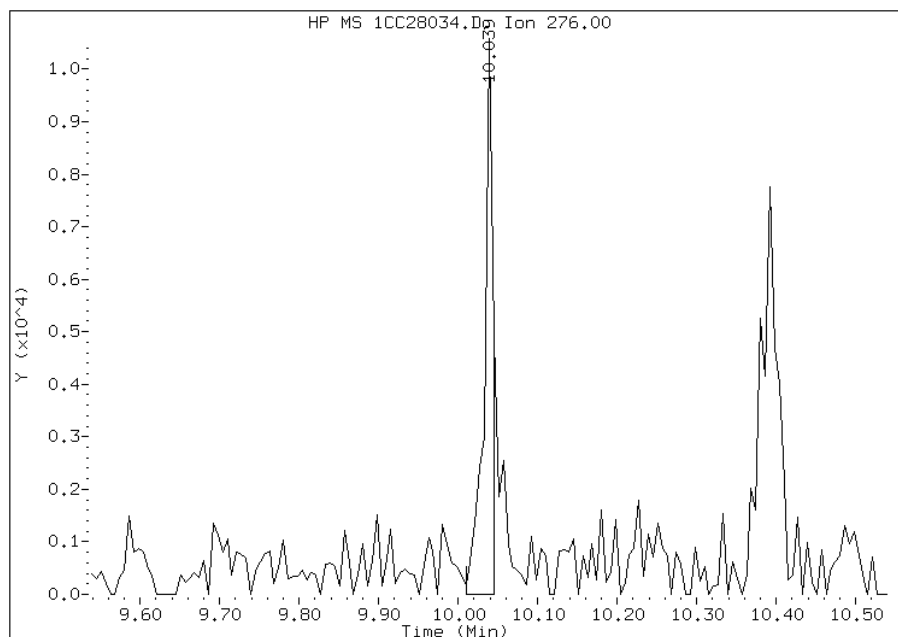
Processing Integration Results

RT: 10.04
Response: 10578
Amount: 0
Conc: 133



Manual Integration Results

RT: 10.04
Response: 8134
Amount: 0
Conc: 103



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 13:58
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV0862B-CS Lab Sample ID: 680-88592-17
 Matrix: Solid Lab File ID: 1CC27012.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 13:15
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07
 Sample wt/vol: 15.28(g) Date Analyzed: 03/27/2013 13:34
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 32.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	29
208-96-8	Acenaphthylene	13	J	58	7.2
120-12-7	Anthracene	10	J	12	6.1
56-55-3	Benzo[a]anthracene	64		12	5.6
50-32-8	Benzo[a]pyrene	49		15	7.5
205-99-2	Benzo[b]fluoranthene	86		18	8.8
191-24-2	Benzo[g,h,i]perylene	31		29	6.4
207-08-9	Benzo[k]fluoranthene	33		12	5.2
218-01-9	Chrysene	48		13	6.5
53-70-3	Dibenz(a,h)anthracene	8.9	J	29	5.9
206-44-0	Fluoranthene	73		29	5.8
86-73-7	Fluorene	29	U	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	30		29	10
90-12-0	1-Methylnaphthalene	45	J	58	6.4
91-57-6	2-Methylnaphthalene	40	J	58	10
91-20-3	Naphthalene	55	J	58	6.4
85-01-8	Phenanthrene	60		12	5.6
129-00-0	Pyrene	64		29	5.4

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27012.D
 Lab Smp Id: 680-88592-A-17-A Client Smp ID: CV0862B-CS
 Inj Date : 27-MAR-2013 13:34
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-17-a
 Misc Info : 680-88592-A-17-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.280	Weight Extracted
M	32.200	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	736521	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	575535	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1106593	40.0000		
\$ 14 o-Terphenyl	230		6.016	6.015	(1.044)	114884	6.87612	663.7243	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1283779	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1244288	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	10830	0.56481	54.5192	
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	5332	0.41688	40.2399	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	5399	0.46348	44.7379	
5 Acenaphthylene	152		4.727	4.727	(0.982)	3044	0.13119	12.6628	
11 Phenanthrene	178		5.780	5.780	(1.003)	19761	0.61757	59.6119	
12 Anthracene	178		5.816	5.815	(1.009)	3318	0.10603	10.2344	
13 Carbazole	167		5.921	5.921	(1.028)	3616	0.12999	12.5472	
15 Fluoranthene	202		6.615	6.615	(1.148)	26333	0.75148	72.5374	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
16 Pyrene	202	6.786	6.786	(0.881)	23014	0.66708	64.3903
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	24470	0.66042	63.7473
19 Chrysene	228	7.721	7.727	(1.002)	18570	0.50081	48.3408
20 Benzo(b)fluoranthene	252	8.545	8.539	(0.962)	28946	0.89016	85.9232
21 Benzo(k)fluoranthene	252	8.557	8.562	(0.963)	11524	0.34546	33.3459(QM)
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	16000	0.50656	48.8963
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050	(1.130)	9091	0.30596	29.5330(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.068	(1.132)	2667	0.09176	8.8576(QH)
26 Benzo(g,h,i)perylene	276	10.398	10.397	(1.170)	9879	0.31783	30.6791

QC Flag Legend

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

Data File: 1CC27012.D

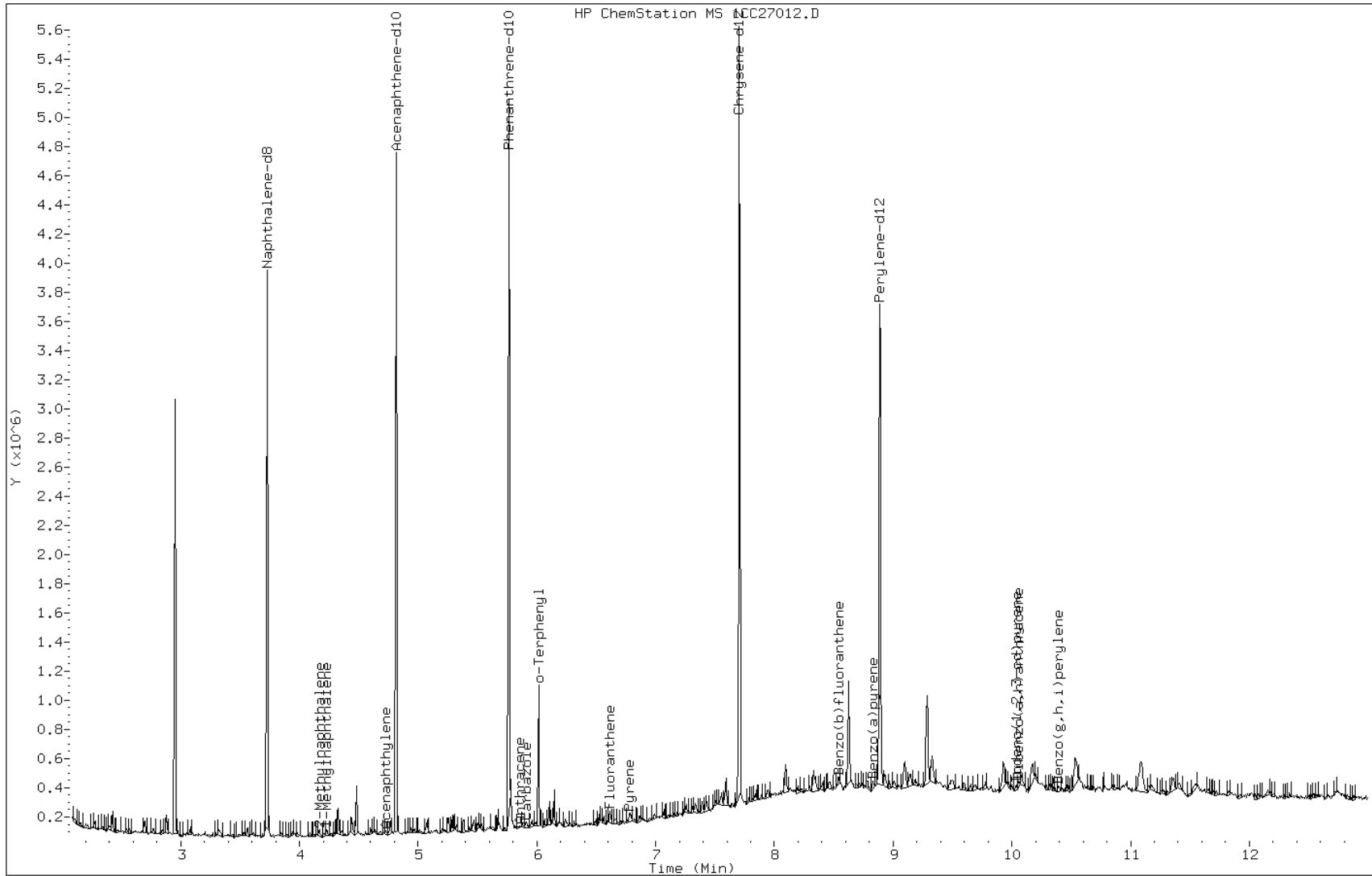
Date: 27-MAR-2013 13:34

Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

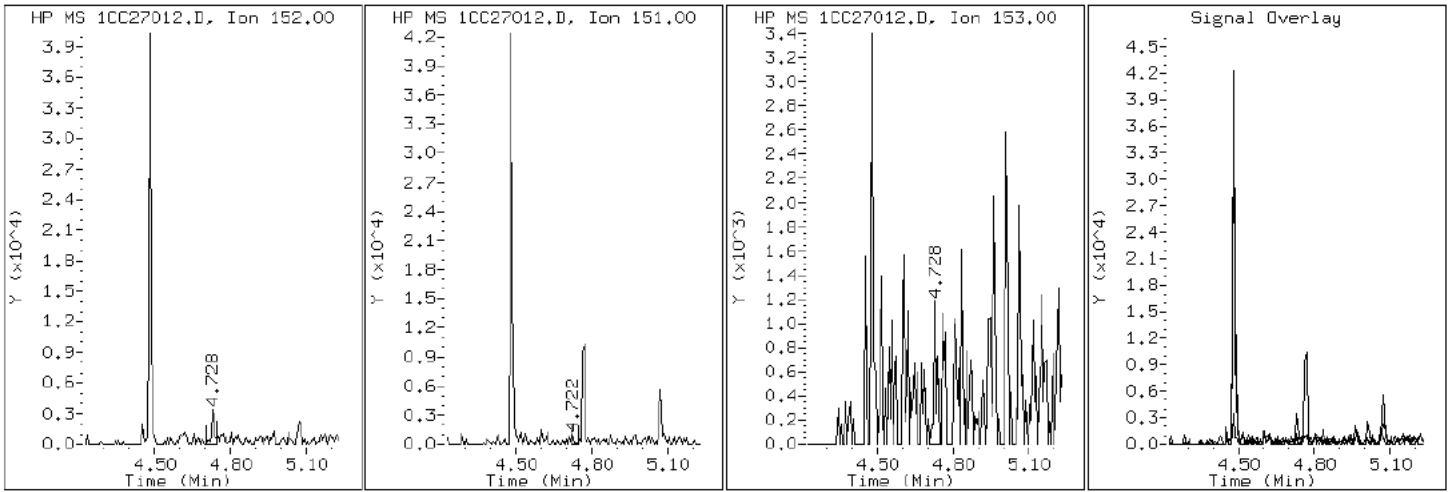
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

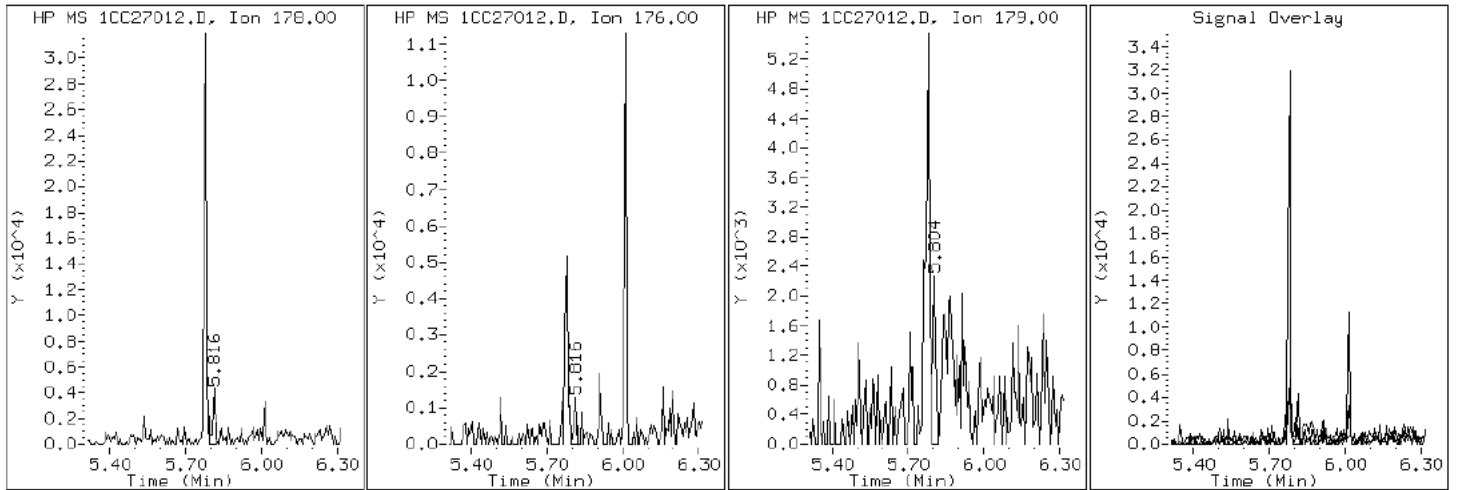
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

12 Anthracene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

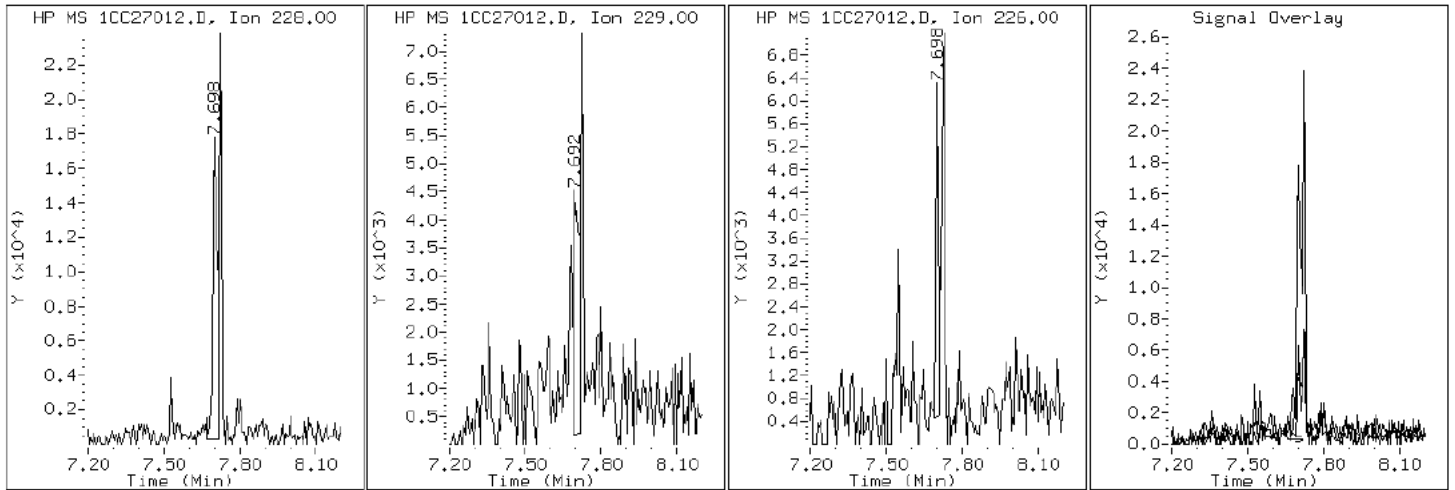
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

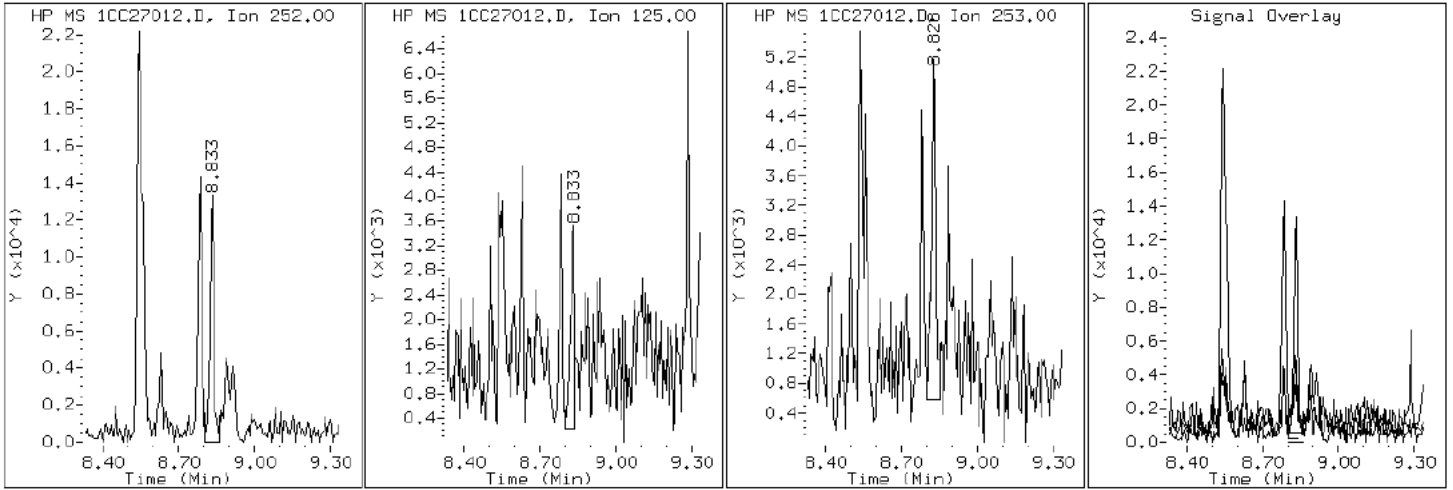
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

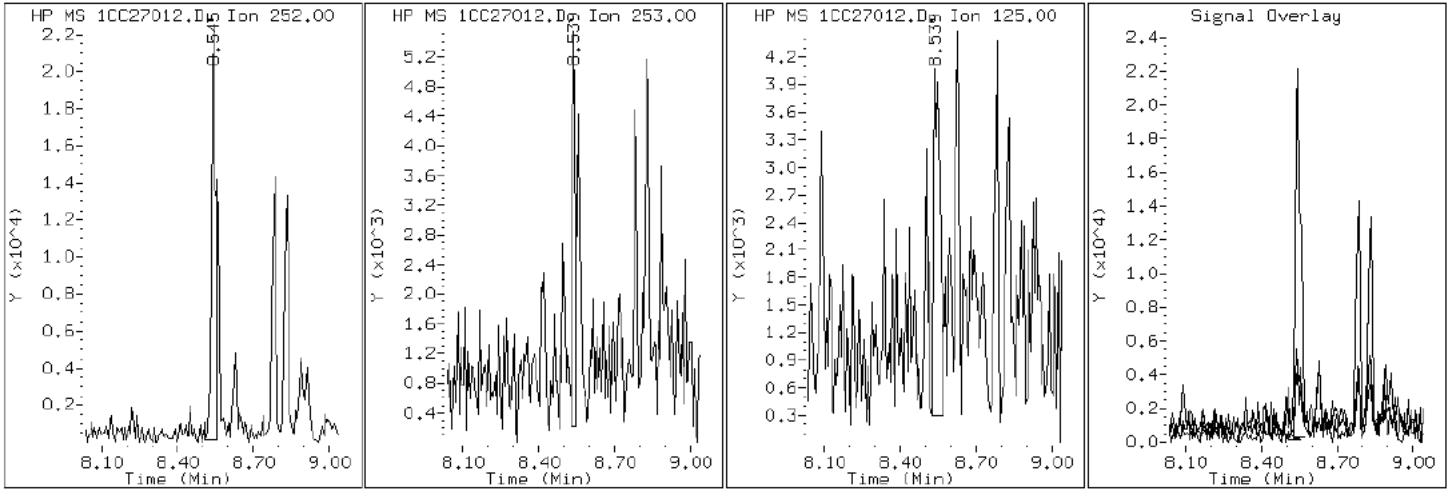
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

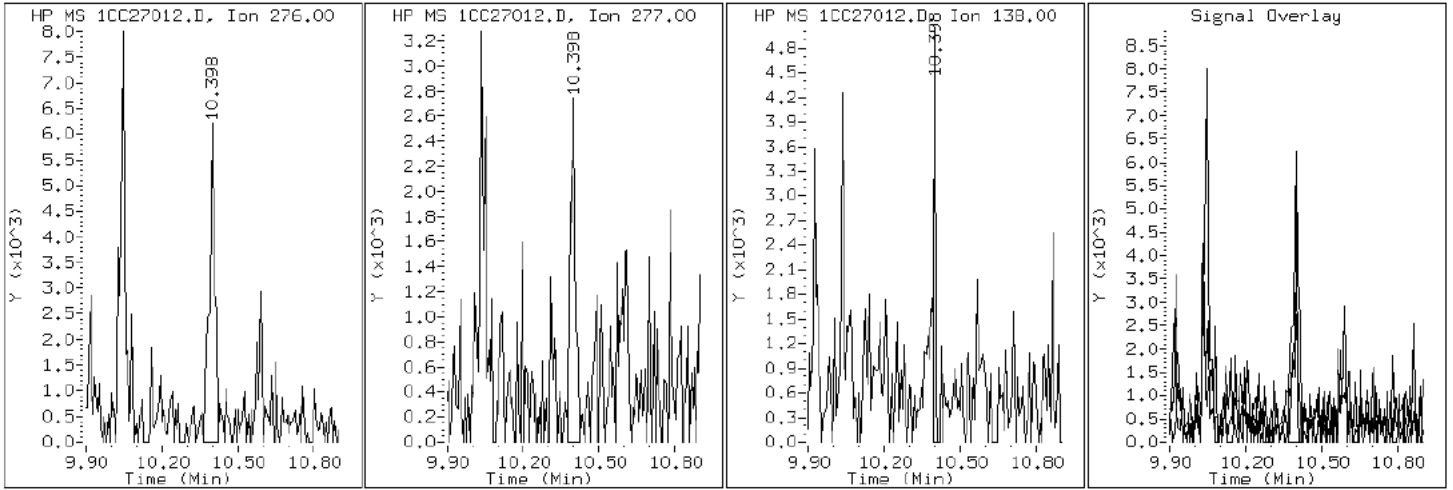
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

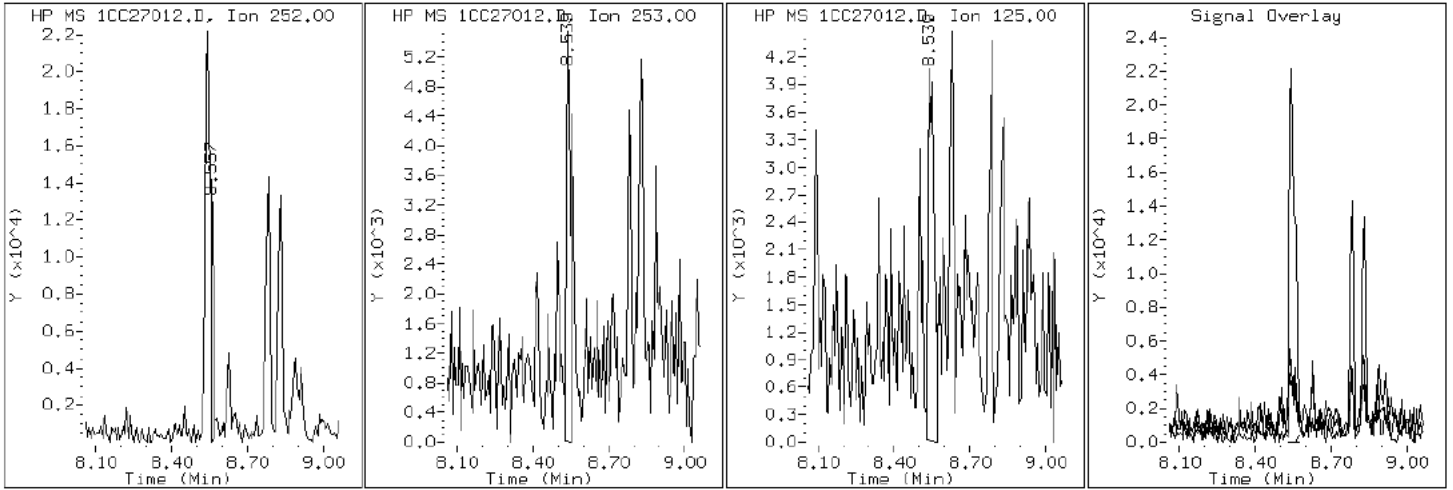
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

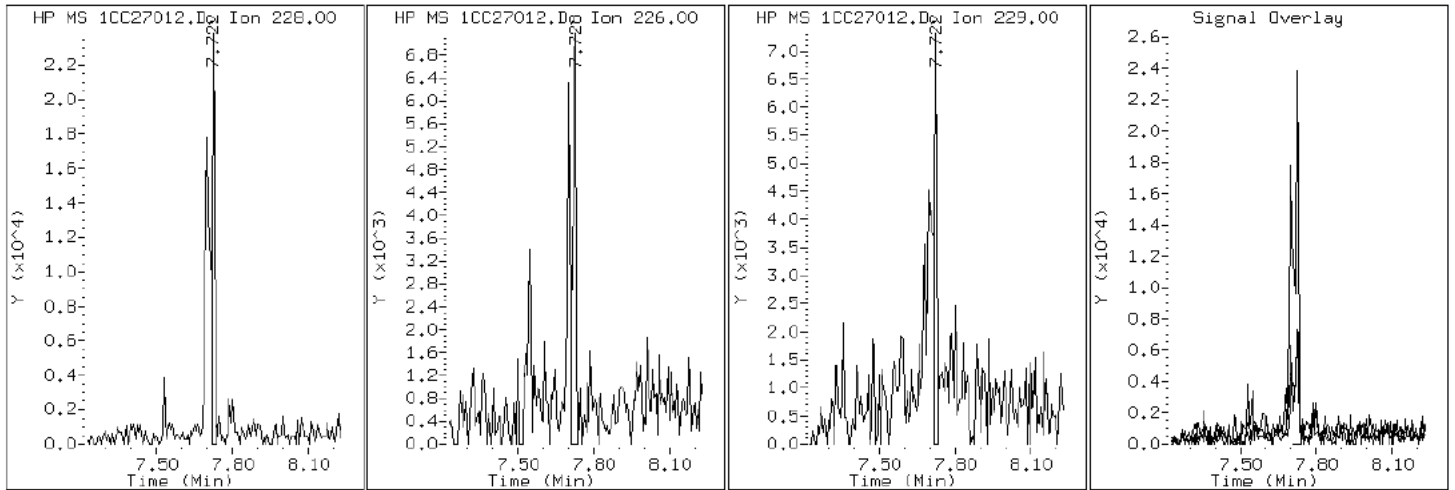
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

19 Chrysene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

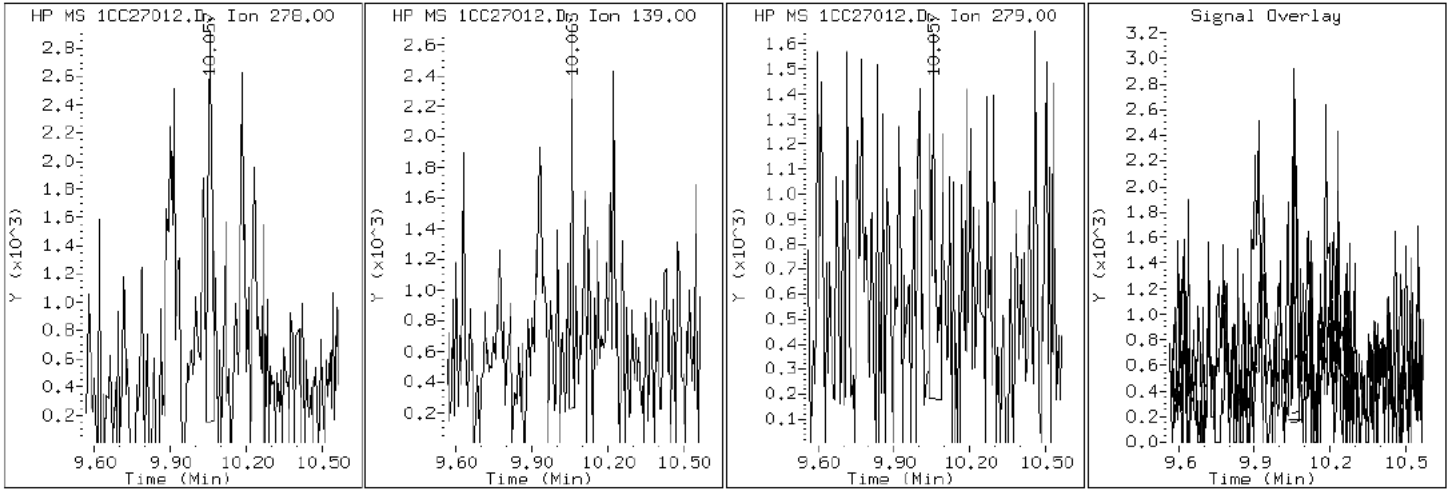
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

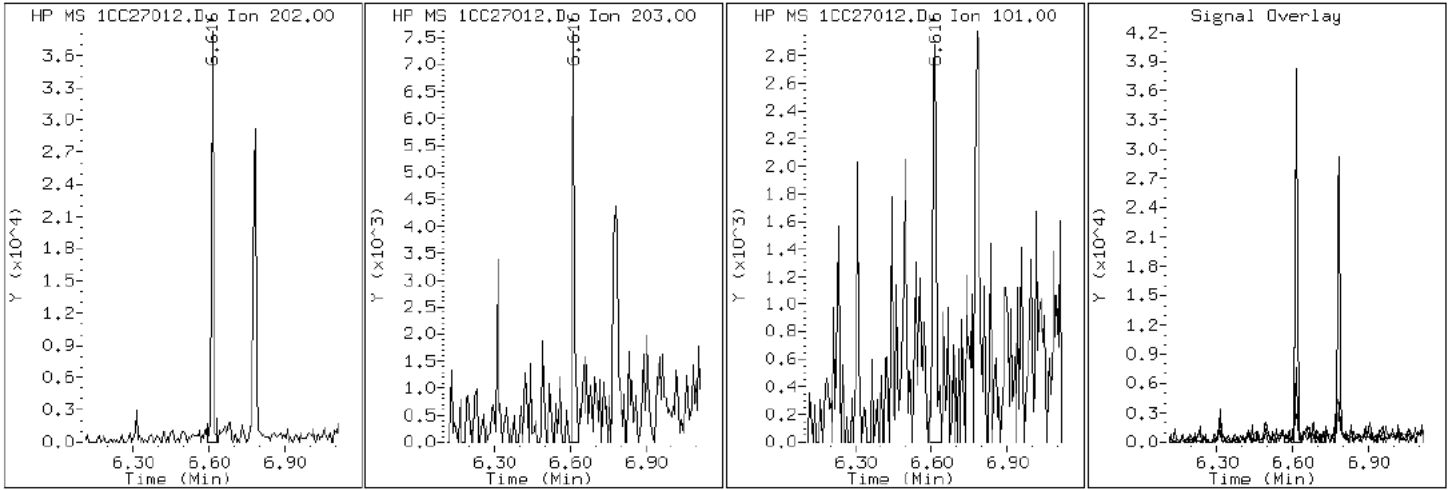
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

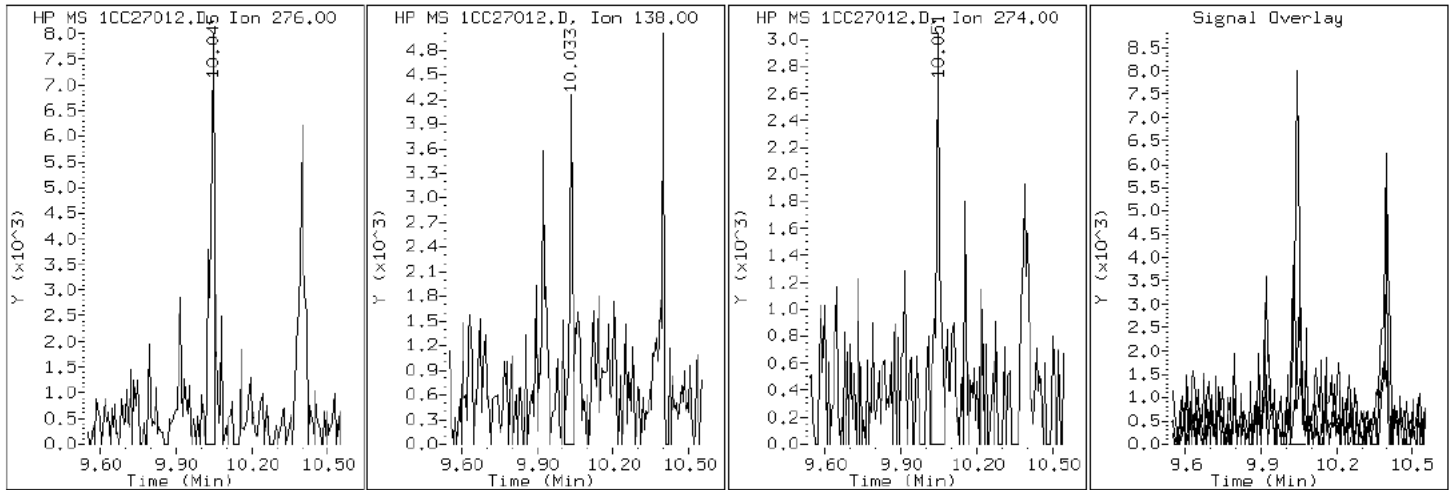
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

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



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

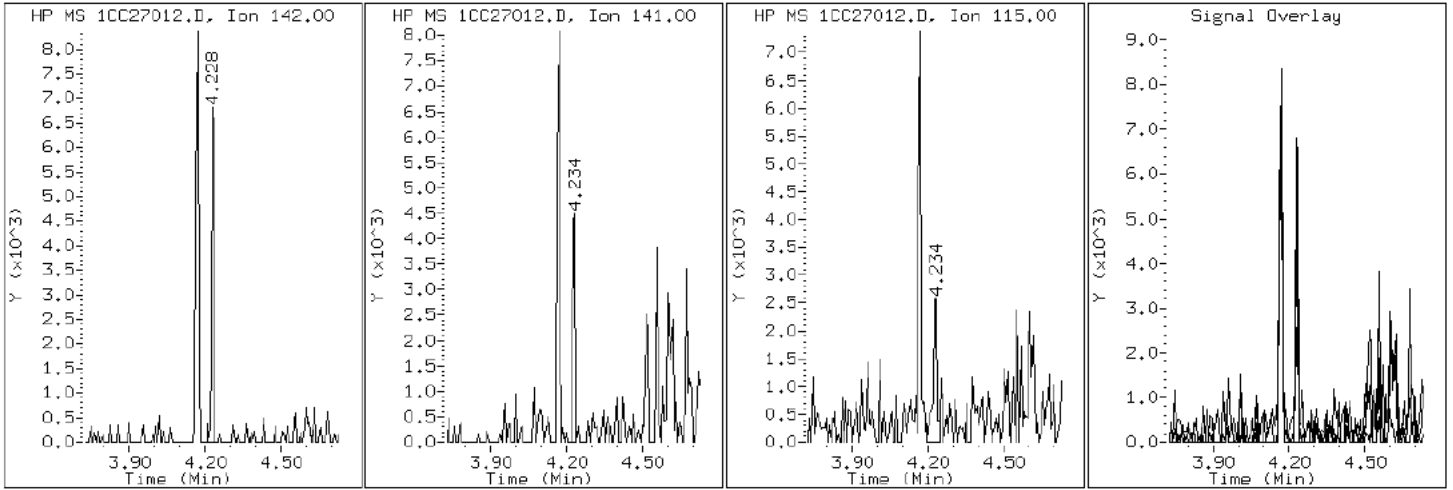
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

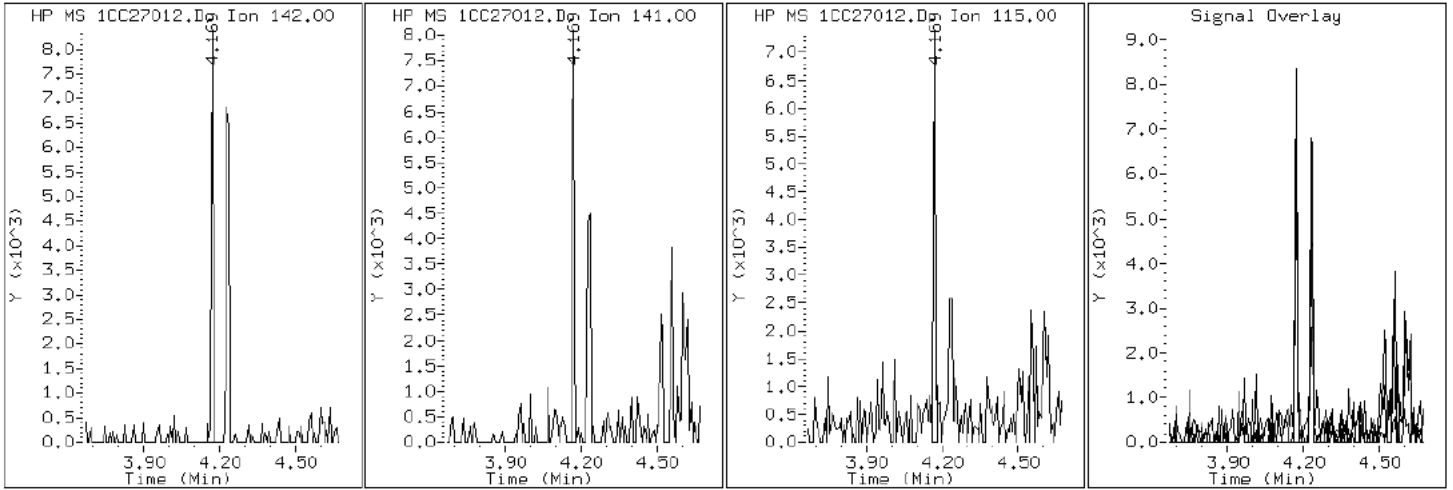
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

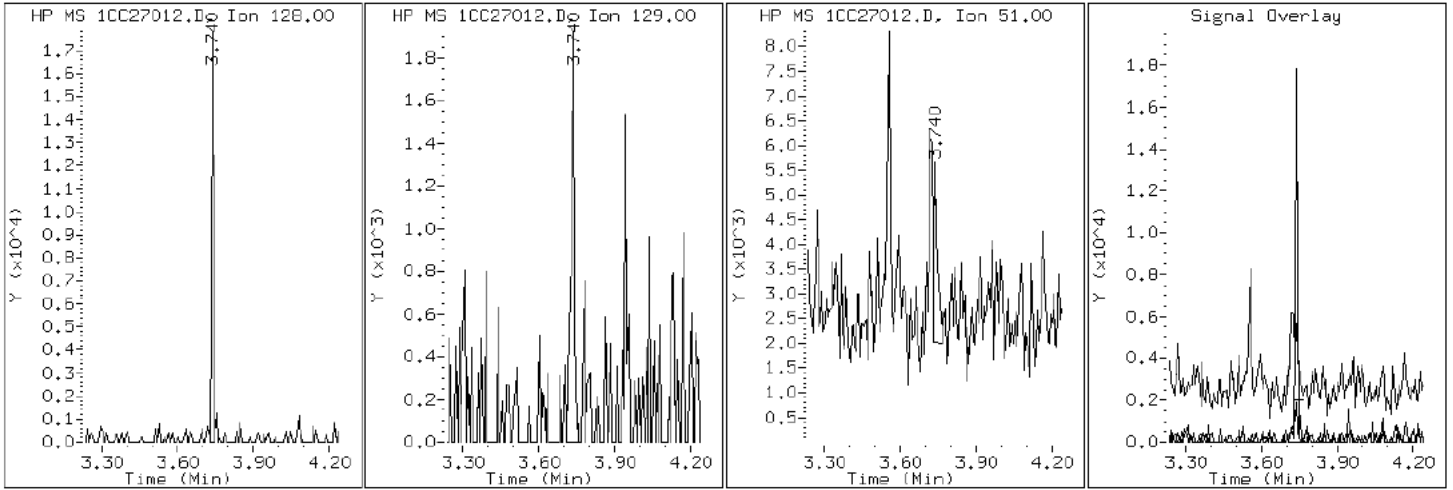
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

2 Naphthalene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

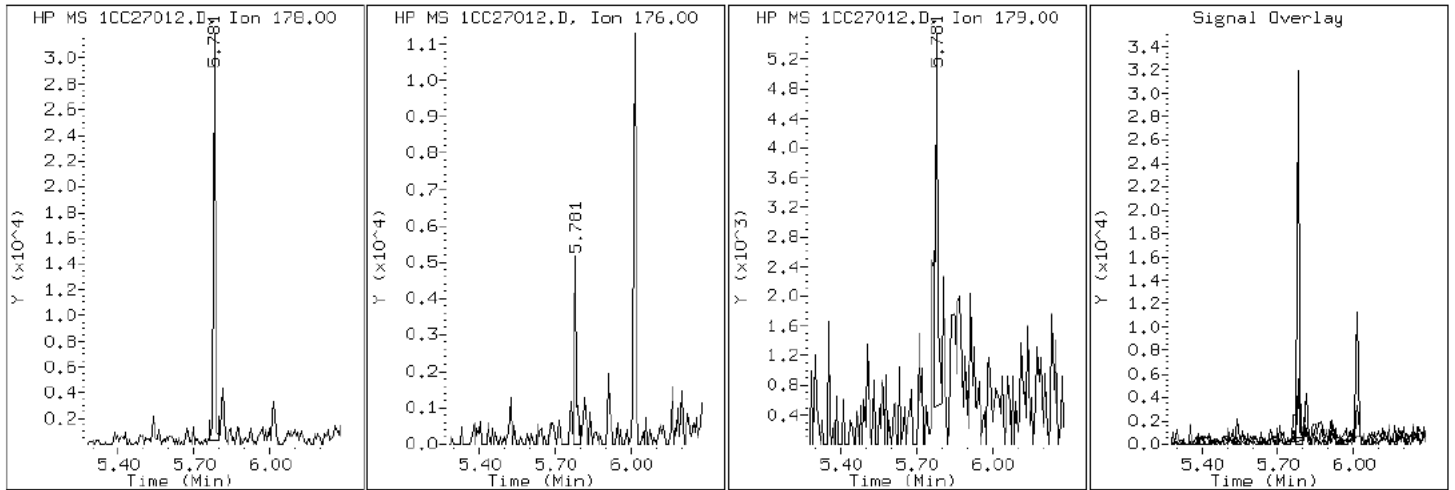
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27012.D

Date: 27-MAR-2013 13:34

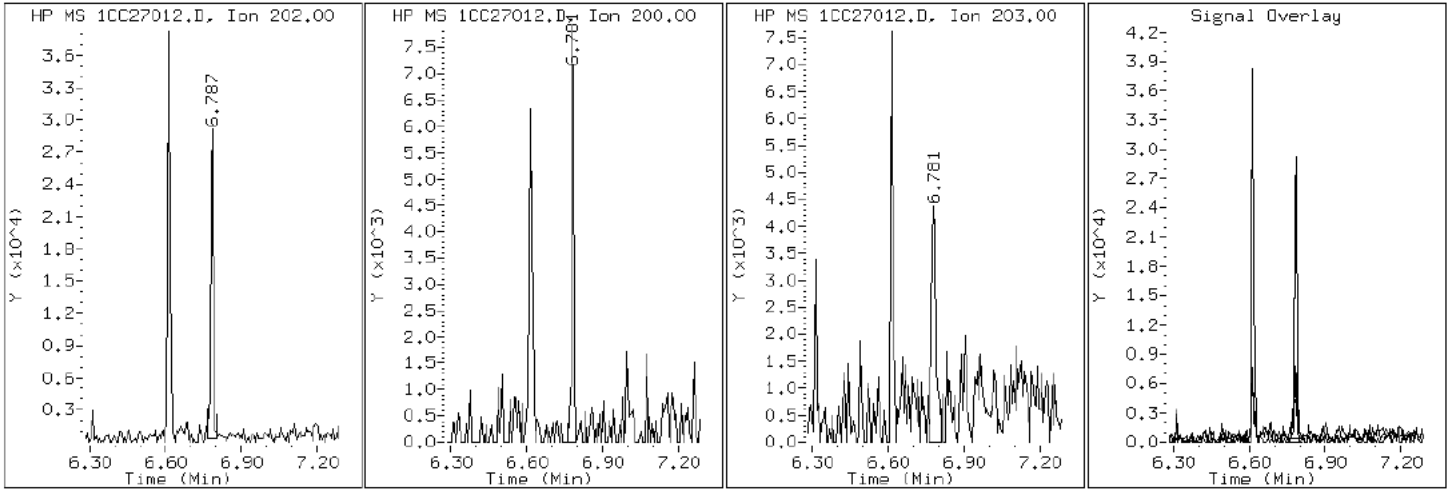
Client ID: CV0862B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-17-a

Operator: SCC

16 Pyrene

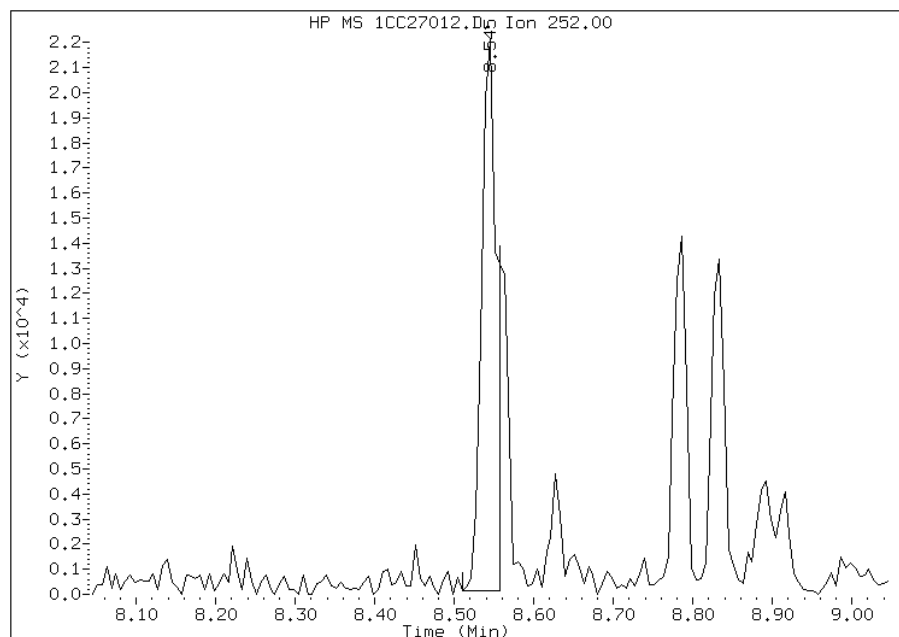


Manual Integration Report

Data File: 1CC27012.D
Inj. Date and Time: 27-MAR-2013 13:34
Instrument ID: BSMC5973.i
Client ID: CV0862B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/01/2013

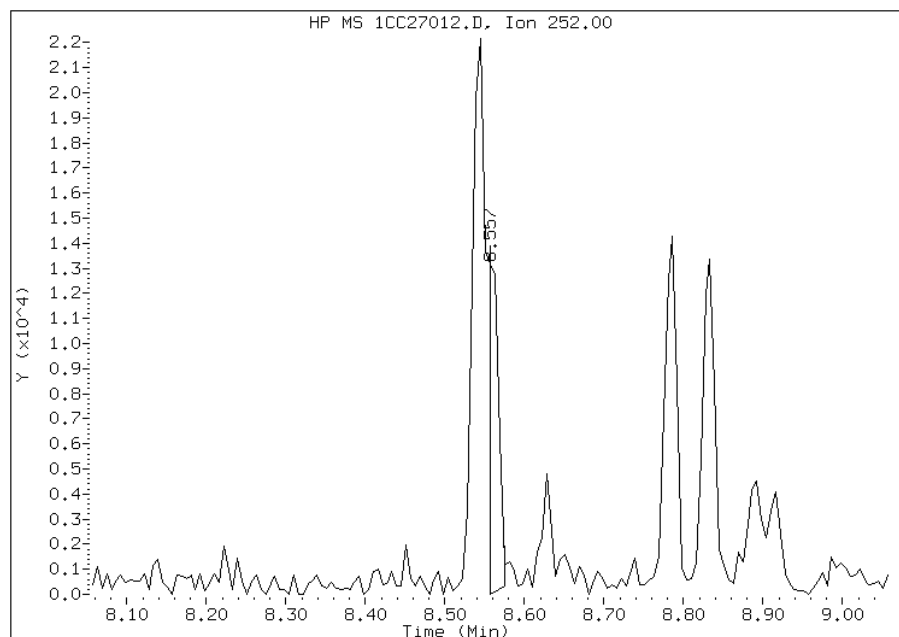
Processing Integration Results

RT: 8.55
Response: 28946
Amount: 1
Conc: 84



Manual Integration Results

RT: 8.56
Response: 11524
Amount: 0
Conc: 33



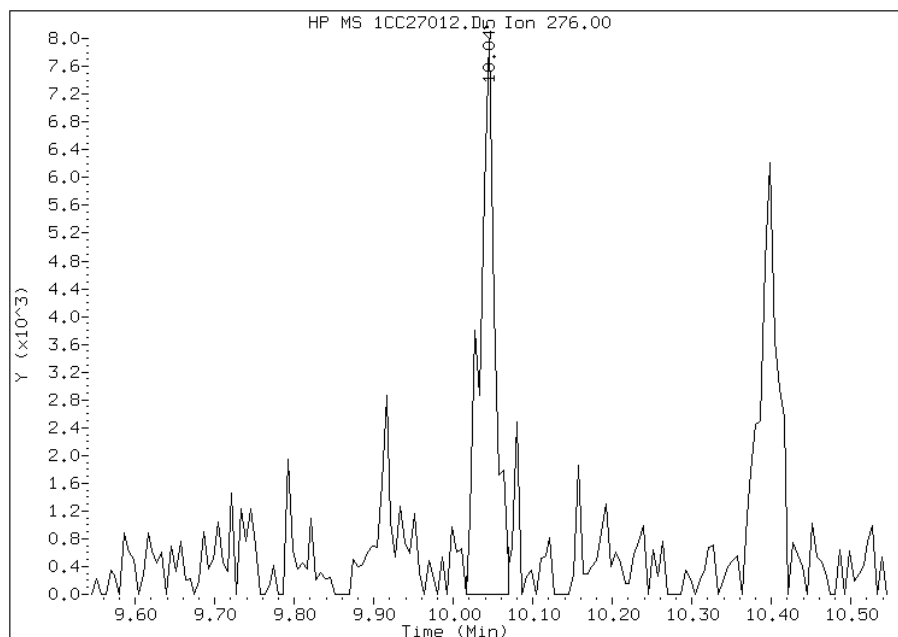
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 11:10
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CC27012.D
Inj. Date and Time: 27-MAR-2013 13:34
Instrument ID: BSMC5973.i
Client ID: CV0862B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

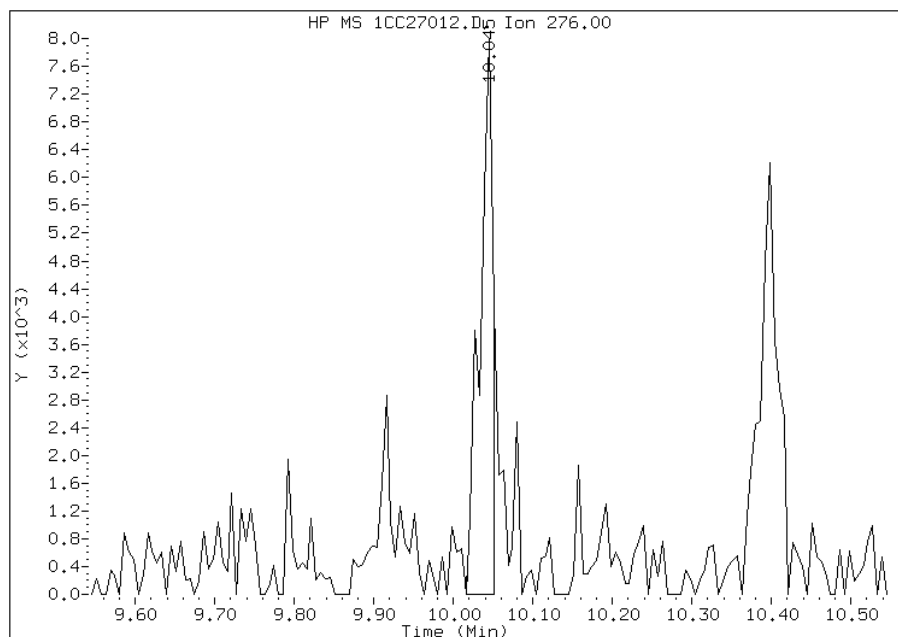
Processing Integration Results

RT: 10.05
Response: 10473
Amount: 0
Conc: 34



Manual Integration Results

RT: 10.05
Response: 9091
Amount: 0
Conc: 30



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 11:10
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1156A-CS Lab Sample ID: 680-88592-18
 Matrix: Solid Lab File ID: 1CC27013.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 13:25
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07
 Sample wt/vol: 15.13(g) Date Analyzed: 03/27/2013 13:52
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 28.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	560	U	560	110
208-96-8	Acenaphthylene	220	U	220	28
120-12-7	Anthracene	47	U	47	23
56-55-3	Benzo[a]anthracene	160		45	22
50-32-8	Benzo[a]pyrene	150		58	29
205-99-2	Benzo[b]fluoranthene	230		68	34
191-24-2	Benzo[g,h,i]perylene	120		110	24
207-08-9	Benzo[k]fluoranthene	110		45	20
218-01-9	Chrysene	170		50	25
53-70-3	Dibenz(a,h)anthracene	60	J	110	23
206-44-0	Fluoranthene	170		110	22
86-73-7	Fluorene	110	U	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	110		110	40
90-12-0	1-Methylnaphthalene	58	J	220	24
91-57-6	2-Methylnaphthalene	64	J	220	40
91-20-3	Naphthalene	75	J	220	24
85-01-8	Phenanthrene	120		45	22
129-00-0	Pyrene	160		110	21

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27013.D
 Lab Smp Id: 680-88592-A-18-A Client Smp ID: CV1156A-CS
 Inj Date : 27-MAR-2013 13:52
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-18-a
 Misc Info : 680-88592-A-18-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 13
 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	15.130	Weight Extracted
M	28.726	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	779565	40.0000	
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	631720	40.0000	
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1172185	40.0000	
\$ 14 o-Terphenyl	230		6.016	6.015	(1.044)	31900	1.80246	668.5820
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1342893	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1320894	40.0000	
2 Naphthalene	128		3.739	3.739	(1.003)	4122	0.20310	75.3366(Q)
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	2353	0.17381	64.4712(Q)
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	1940	0.15735	58.3635
11 Phenanthrene	178		5.780	5.780	(1.003)	10945	0.32291	119.7776
15 Fluoranthene	202		6.615	6.615	(1.148)	17082	0.46020	170.7012
16 Pyrene	202		6.786	6.786	(0.881)	15688	0.43471	161.2460
17 Benzo(a)anthracene	228		7.698	7.698	(0.999)	16883	0.43559	161.5737
19 Chrysene	228		7.721	7.727	(1.002)	17774	0.45824	169.9731

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
=====	=====	=====	=====	=====	=====	=====	=====	
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	21517	0.62332	231.2068	
21 Benzo(k)fluoranthene	252	8.557	8.562	(0.963)	10786	0.30459	112.9789	
22 Benzo(a)pyrene	252	8.827	8.833	(0.993)	13990	0.41724	154.7643	
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050	(1.130)	9503	0.30128	111.7519(M)	
25 Dibenzo(a,h)anthracene	278	10.045	10.068	(1.130)	5010	0.16238	60.2324(H)	
26 Benzo(g,h,i)perylene	276	10.392	10.397	(1.169)	10940	0.33156	122.9829	

QC Flag Legend

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

Data File: 1CC27013.D

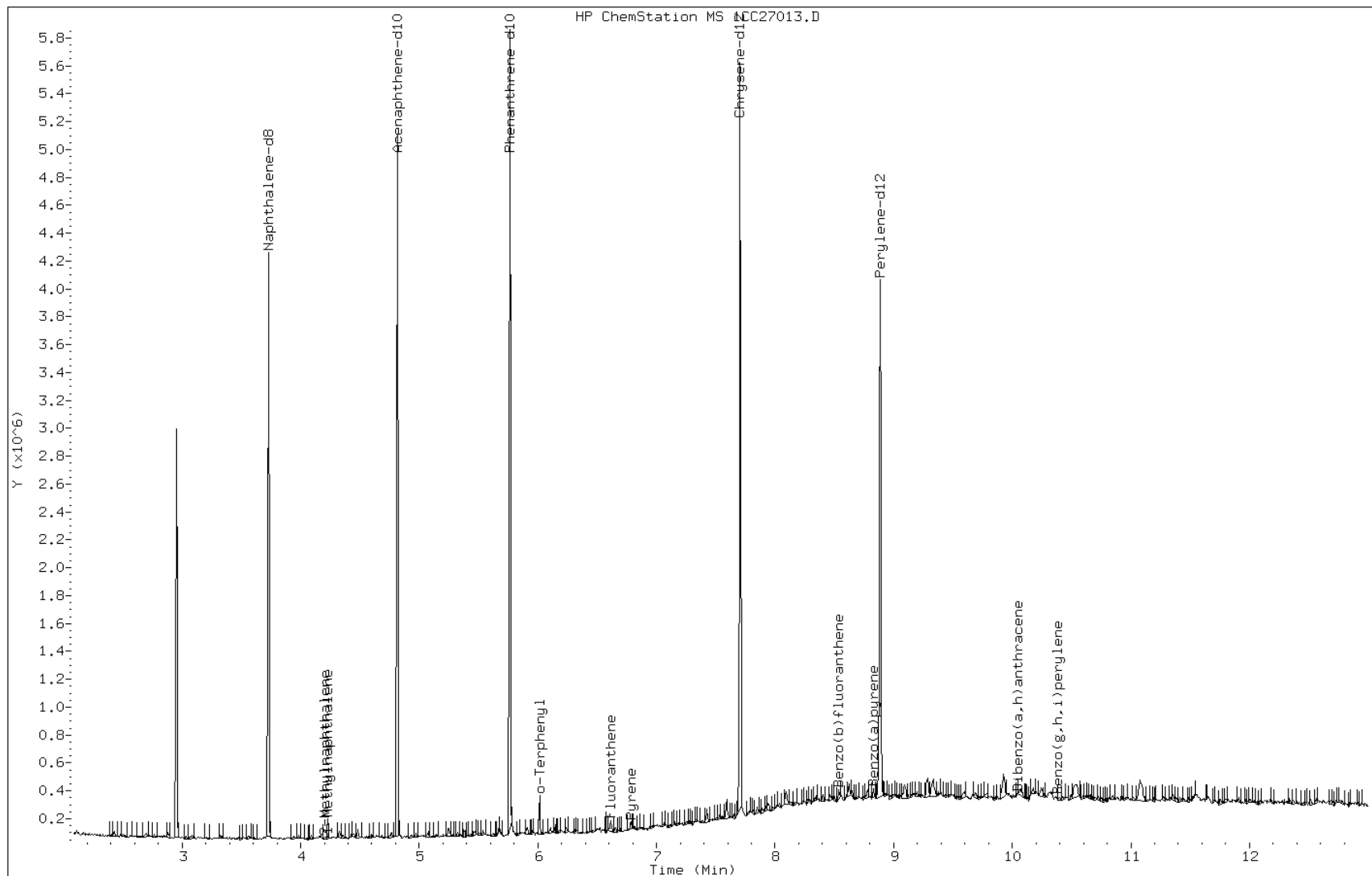
Date: 27-MAR-2013 13:52

Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

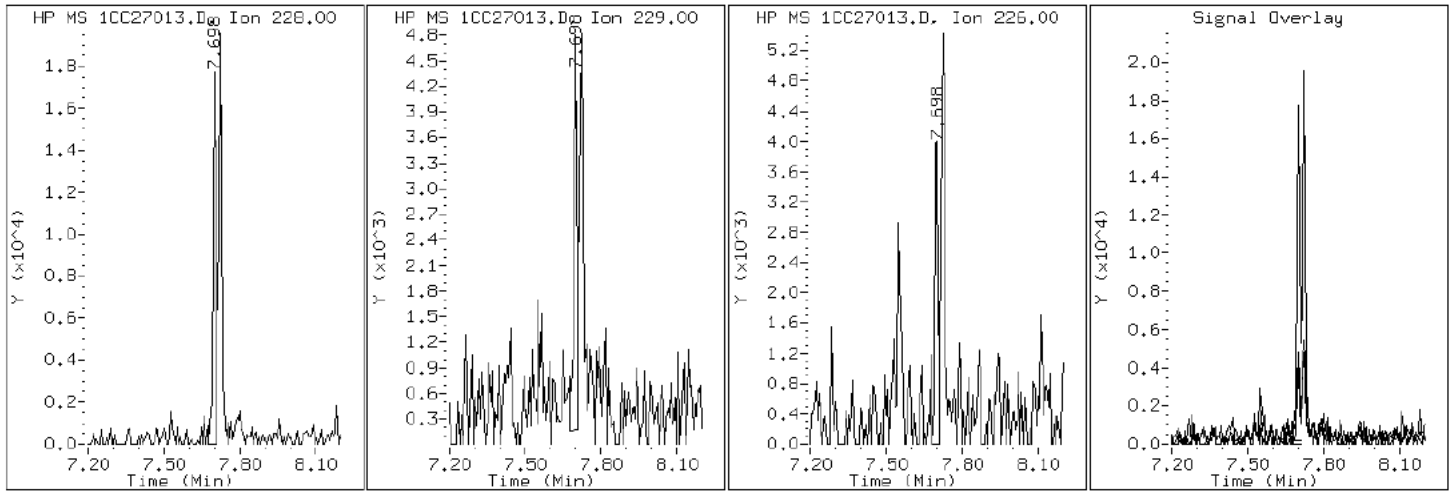
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

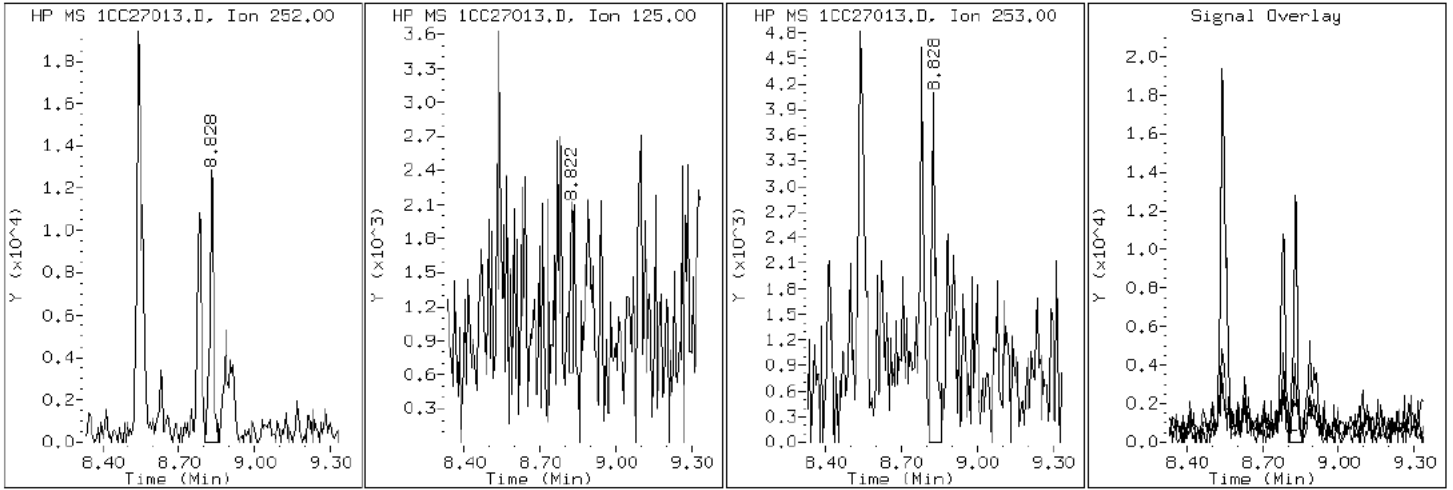
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

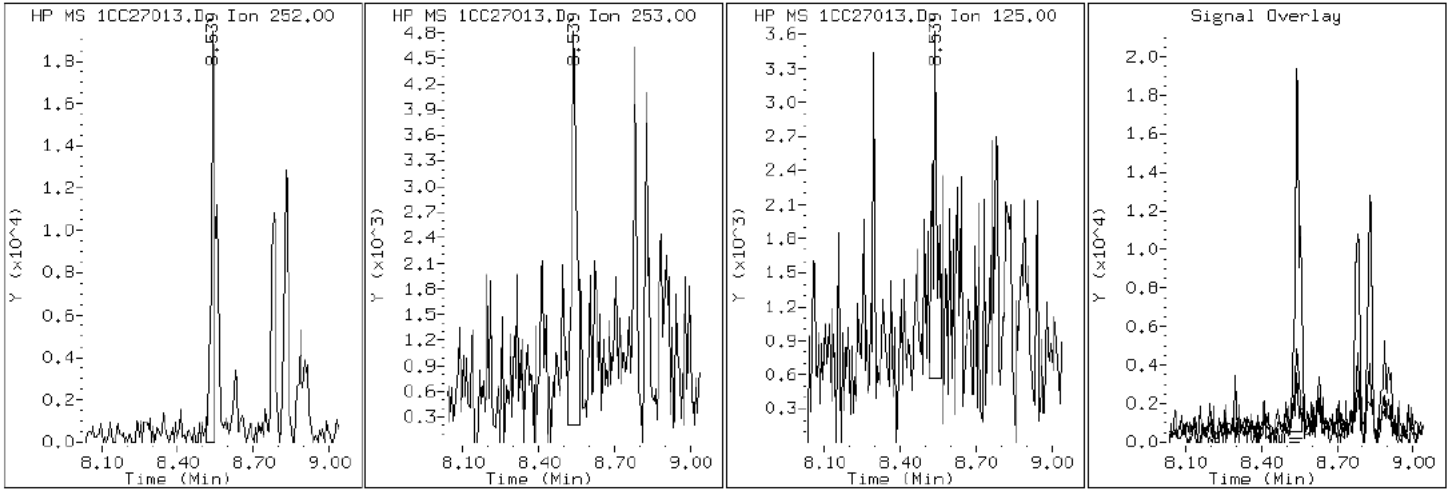
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

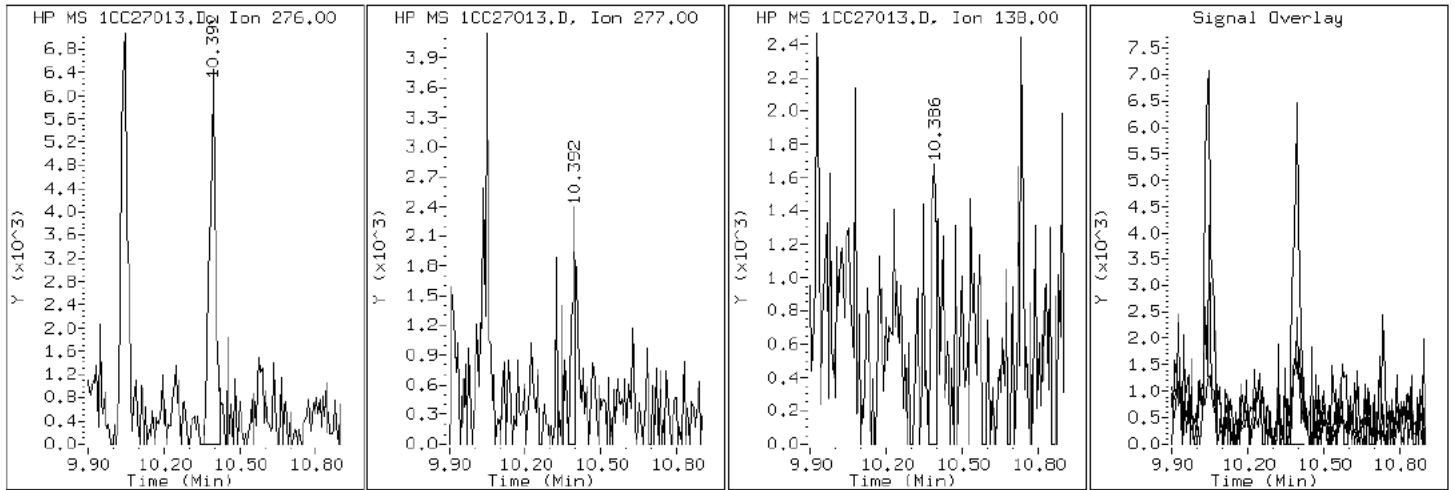
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

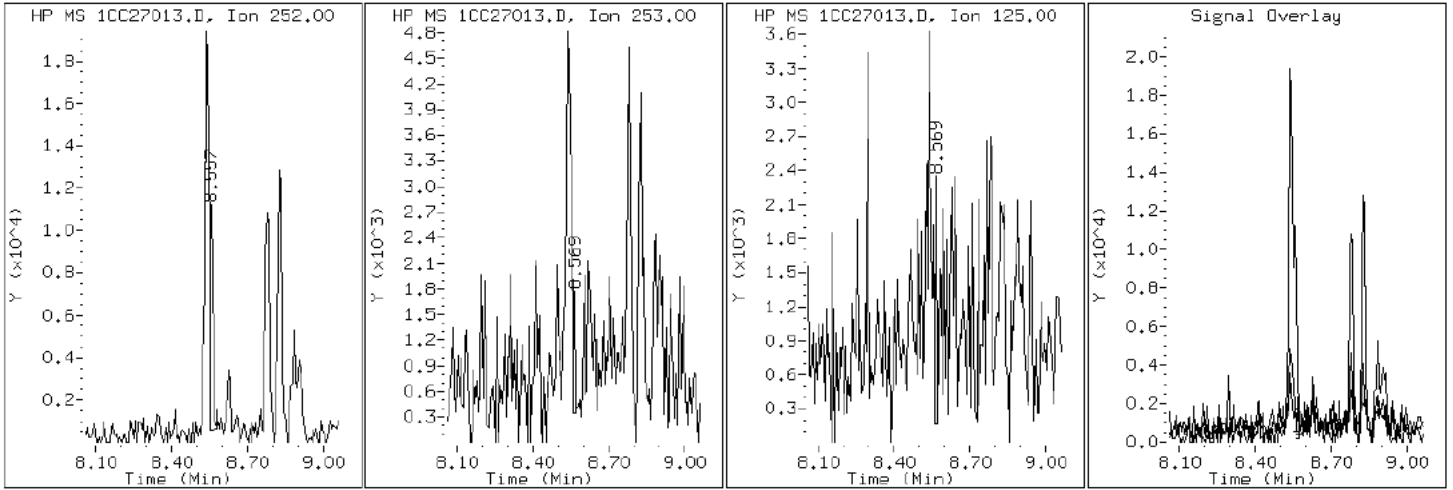
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

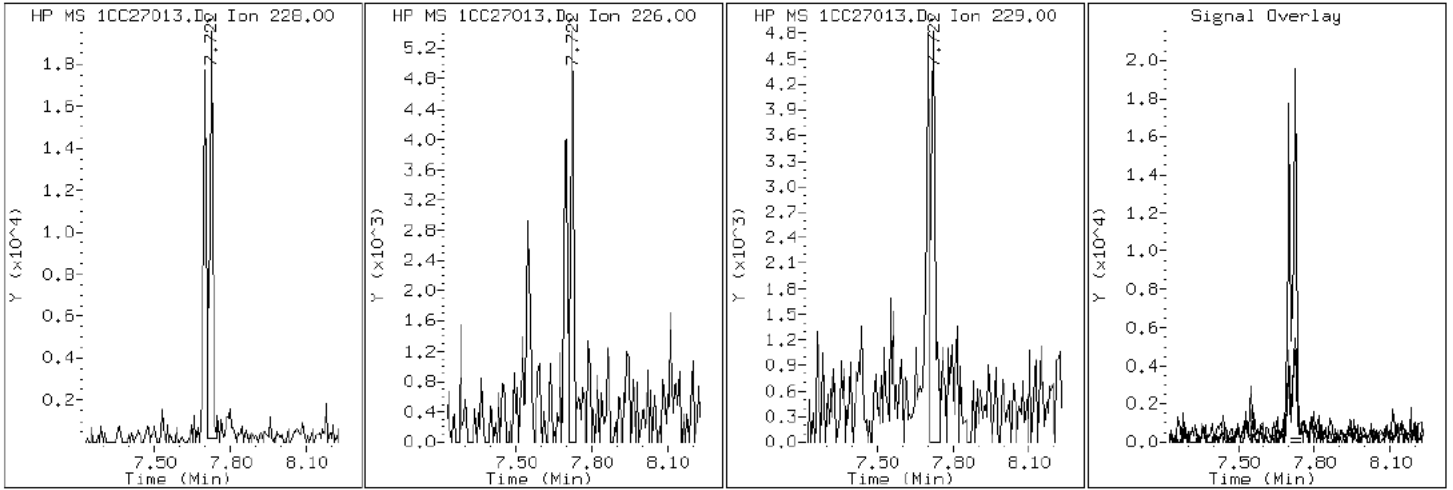
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

19 Chrysene



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

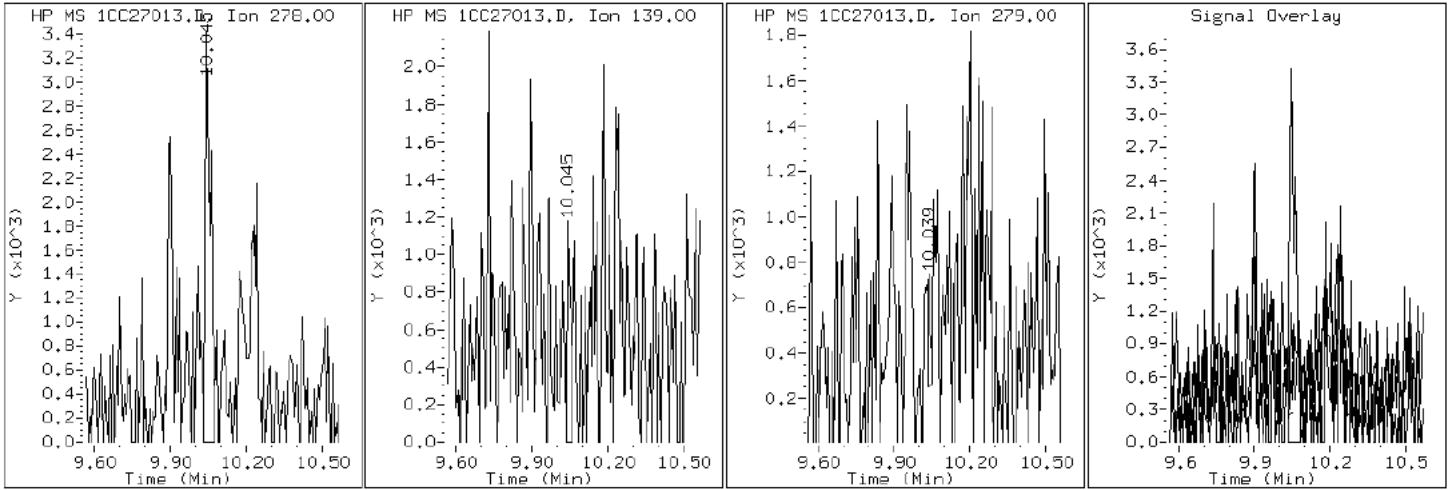
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

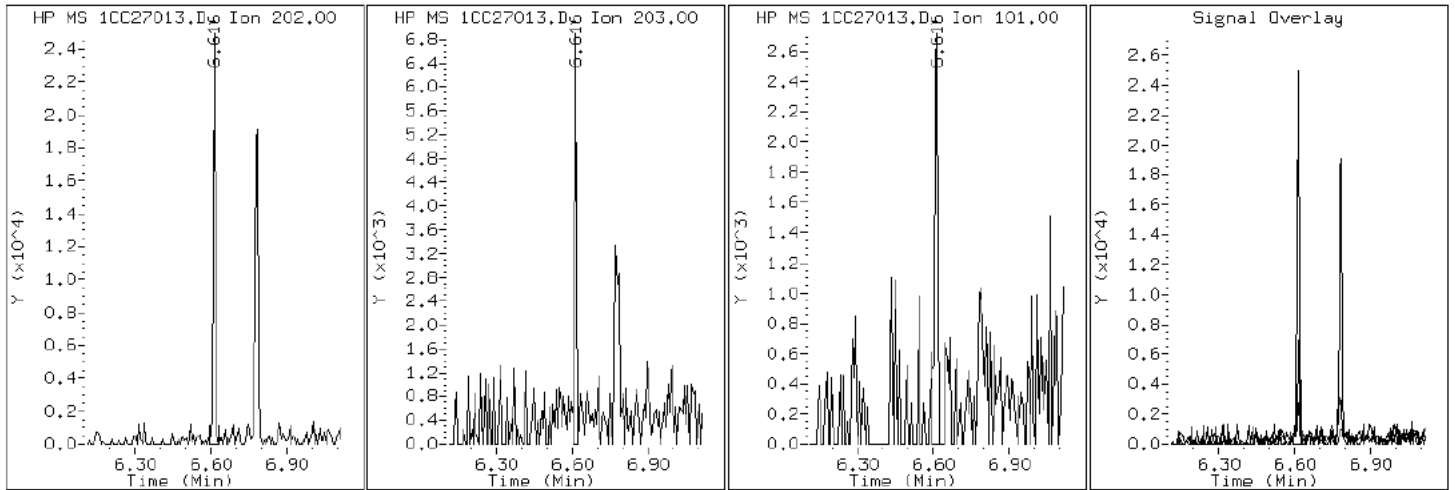
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

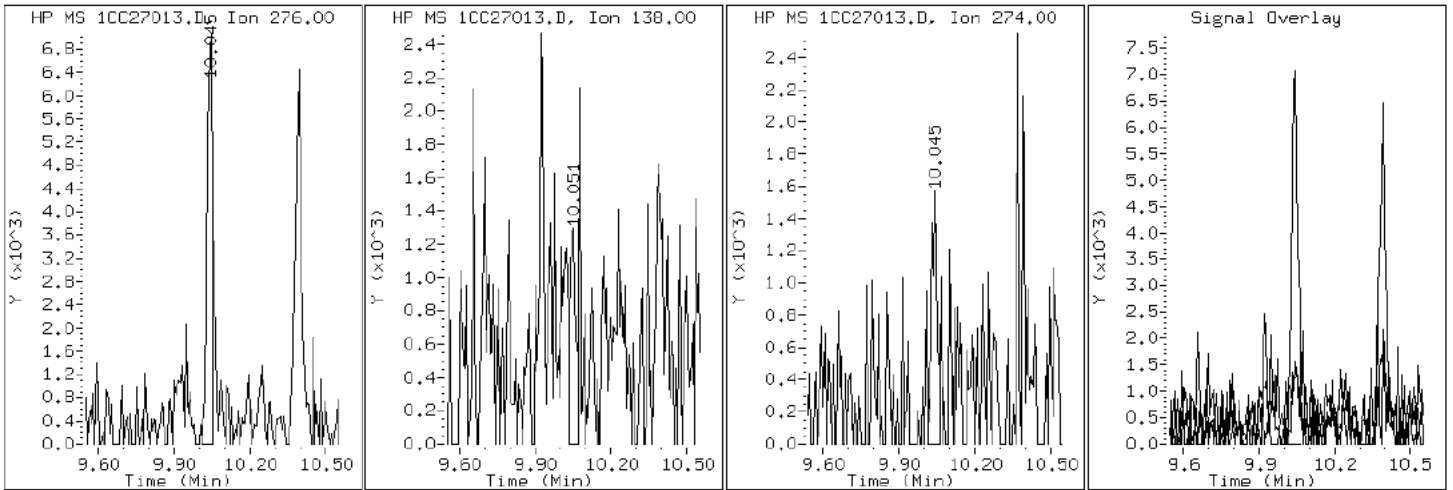
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

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



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

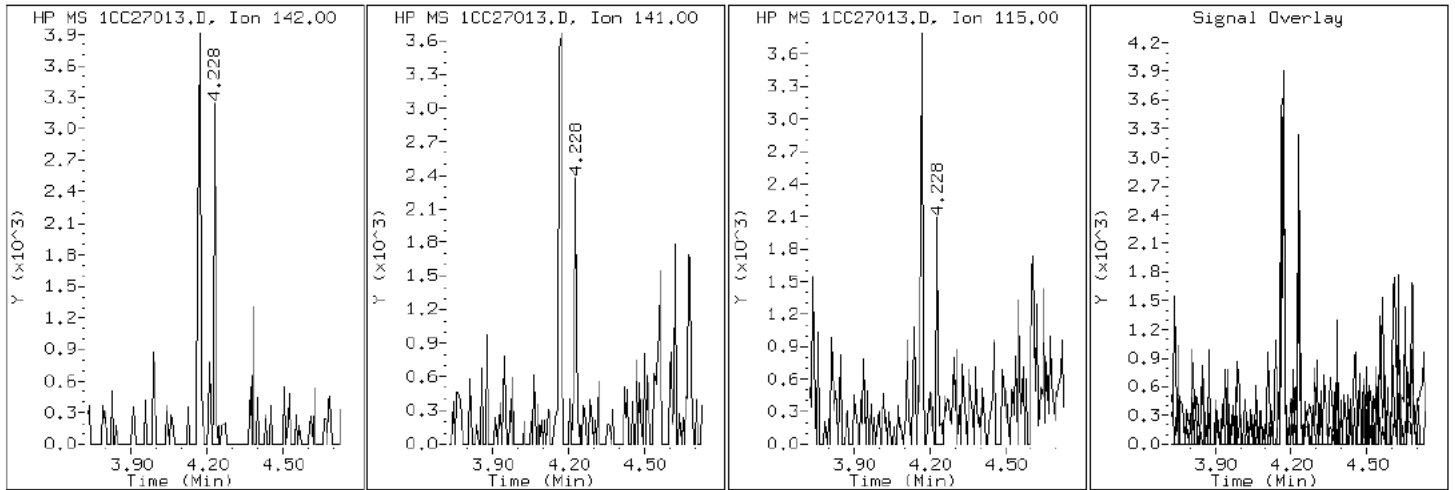
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

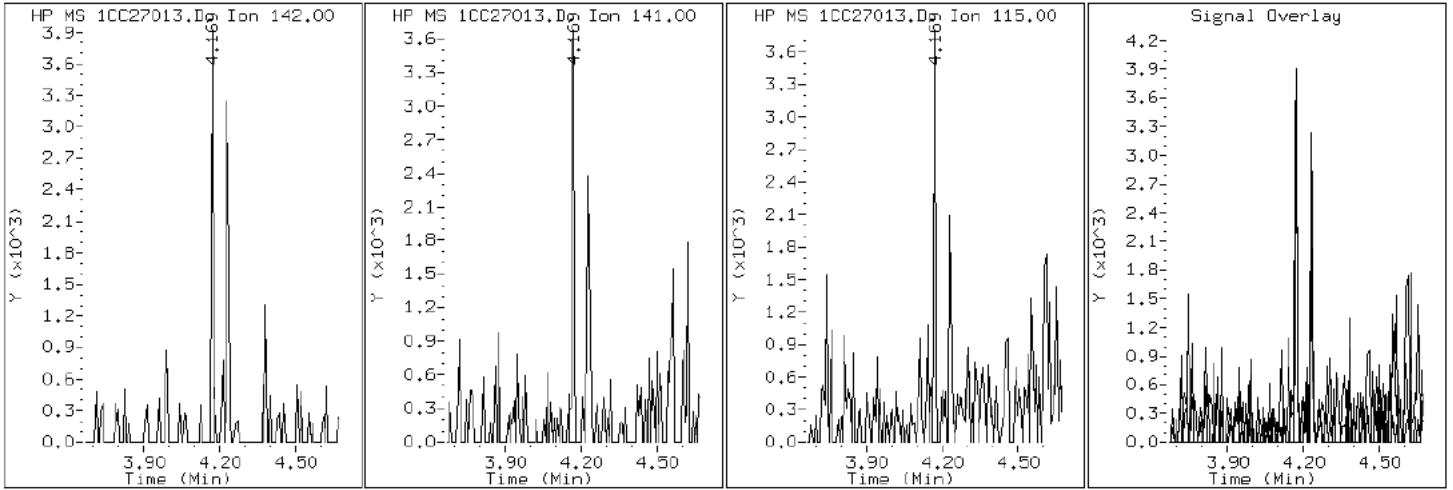
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

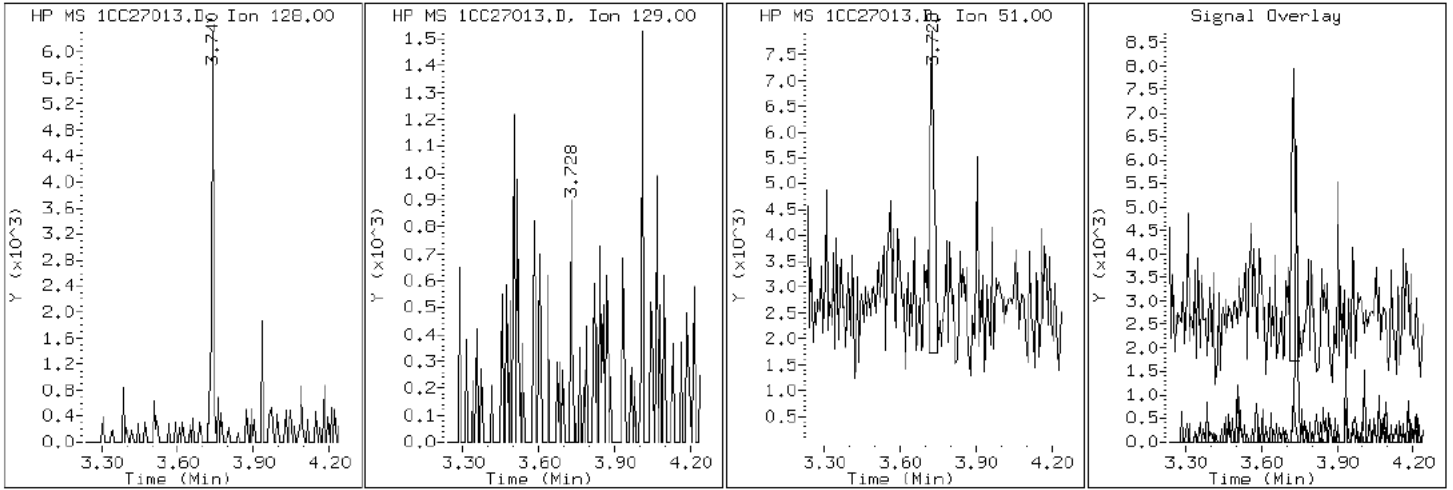
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

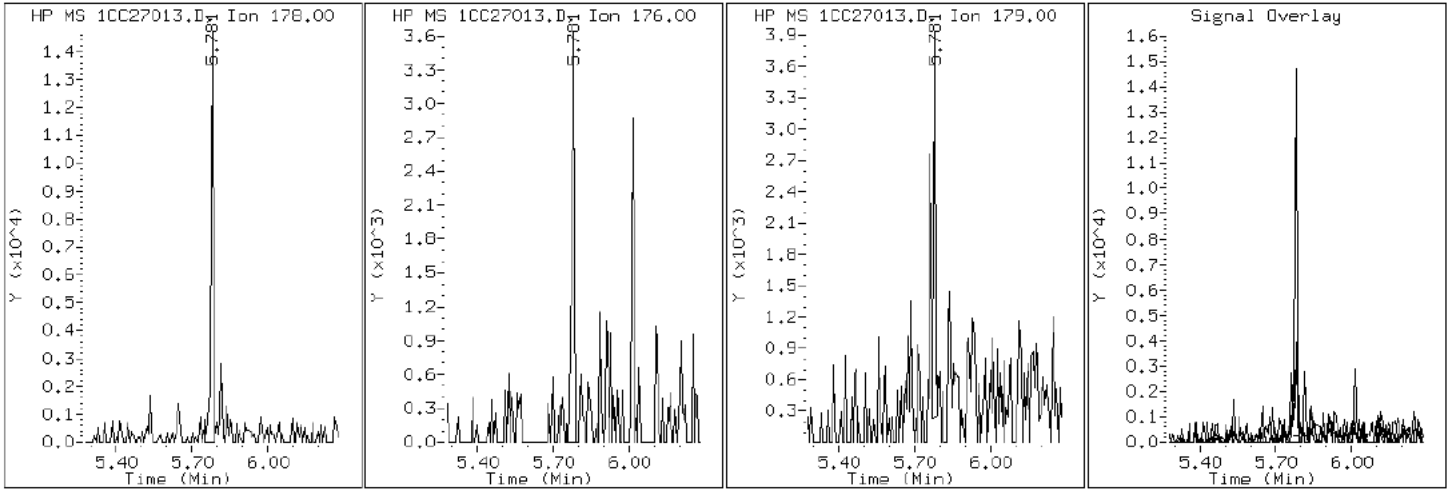
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27013.D

Date: 27-MAR-2013 13:52

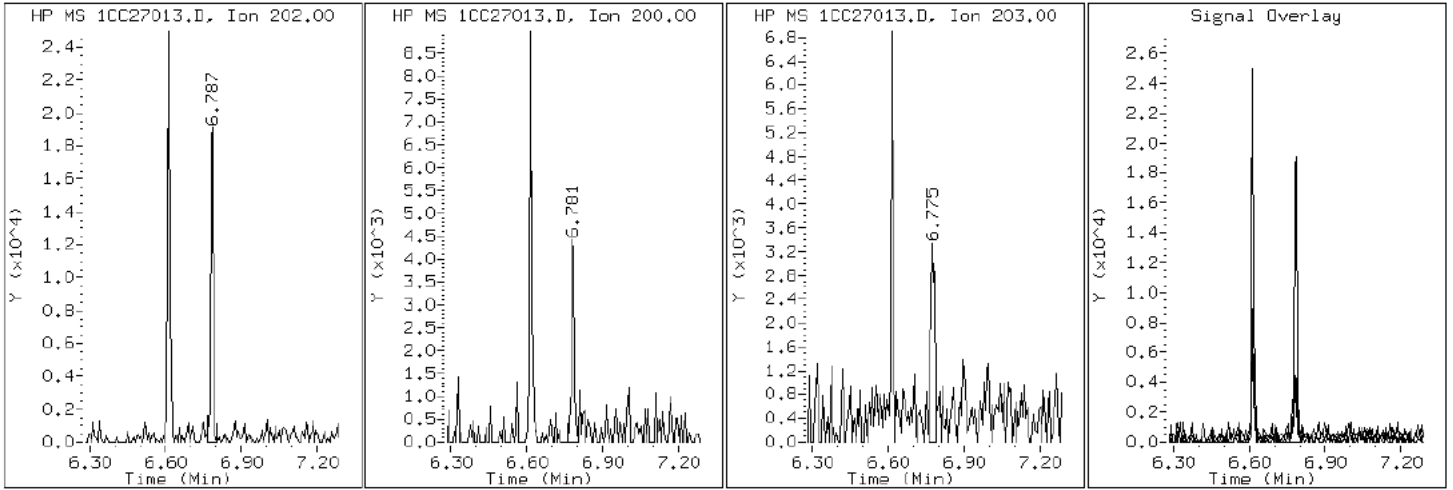
Client ID: CV1156A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-18-a

Operator: SCC

16 Pyrene

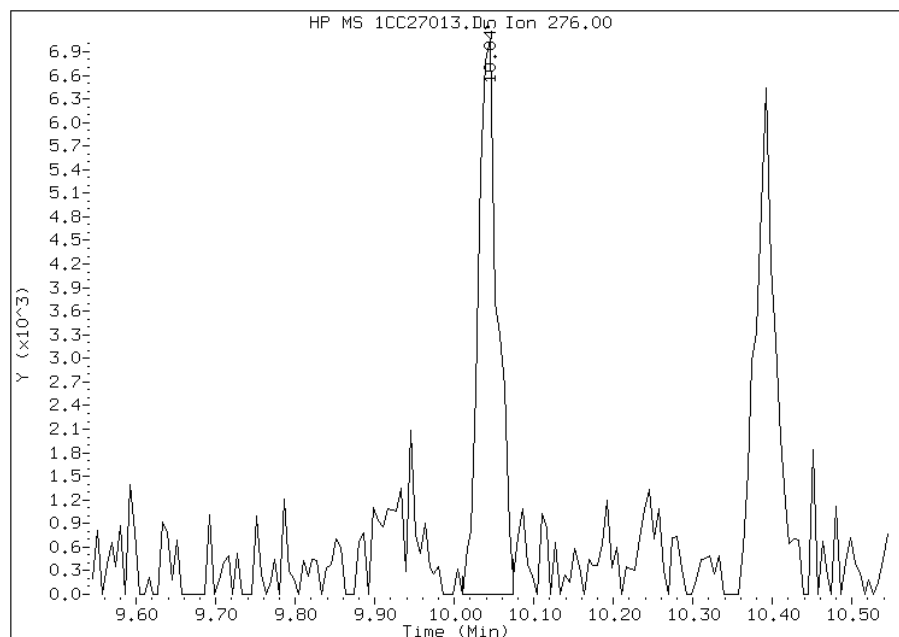


Manual Integration Report

Data File: 1CC27013.D
Inj. Date and Time: 27-MAR-2013 13:52
Instrument ID: BSMC5973.i
Client ID: CV1156A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

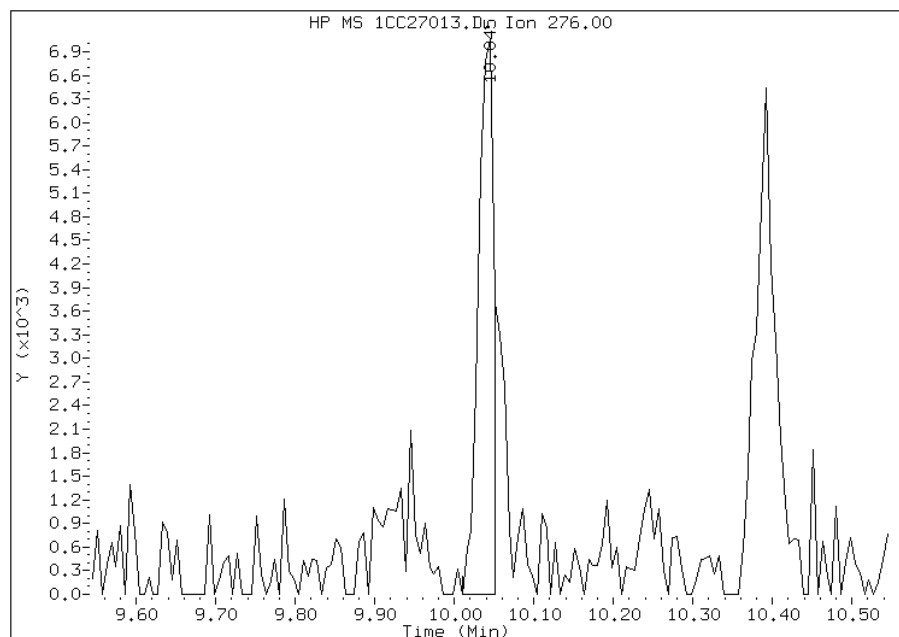
Processing Integration Results

RT: 10.05
Response: 11972
Amount: 0
Conc: 141



Manual Integration Results

RT: 10.05
Response: 9503
Amount: 0
Conc: 112



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1156B-CS Lab Sample ID: 680-88592-19
 Matrix: Solid Lab File ID: 1CC27008.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 13:45
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07
 Sample wt/vol: 15.02(g) Date Analyzed: 03/27/2013 12:20
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 33.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	600	U	600	120
208-96-8	Acenaphthylene	31	J	240	30
120-12-7	Anthracene	75		50	25
56-55-3	Benzo[a]anthracene	650		48	23
50-32-8	Benzo[a]pyrene	740		63	31
205-99-2	Benzo[b]fluoranthene	1500	F	73	37
191-24-2	Benzo[g,h,i]perylene	800		120	26
207-08-9	Benzo[k]fluoranthene	410		48	22
218-01-9	Chrysene	670		54	27
53-70-3	Dibenz(a,h)anthracene	270		120	25
206-44-0	Fluoranthene	720		120	24
86-73-7	Fluorene	120	U	120	25
193-39-5	Indeno[1,2,3-cd]pyrene	750	F	120	43
90-12-0	1-Methylnaphthalene	60	J	240	26
91-57-6	2-Methylnaphthalene	110	J	240	43
91-20-3	Naphthalene	160	J	240	26
85-01-8	Phenanthrene	370		48	23
129-00-0	Pyrene	690		120	22

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27008.D
 Lab Smp Id: 680-88592-A-19-A Client Smp ID: CV1156B-CS
 Inj Date : 27-MAR-2013 12:20
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-19-a
 Misc Info : 680-88592-A-19-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 8
 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	15.020	Weight Extracted
M	33.550	% 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	909551	40.0000	
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	732897	40.0000	
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1363986	40.0000	
\$ 14 o-Terphenyl	230		6.016	6.015	(1.044)	31901	1.54905	620.8119
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1626422	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1645805	40.0000	
2 Naphthalene	128		3.739	3.739	(1.003)	9681	0.40884	163.8511
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	4296	0.27199	109.0032
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	2137	0.14855	59.5353
5 Acenaphthylene	152		4.727	4.727	(0.982)	2302	0.07791	31.2226
11 Phenanthrene	178		5.780	5.780	(1.003)	36481	0.92496	370.6965
12 Anthracene	178		5.816	5.815	(1.009)	7181	0.18617	74.6106
13 Carbazole	167		5.921	5.921	(1.028)	3040	0.08866	35.5321
15 Fluoranthene	202		6.615	6.615	(1.148)	78087	1.80790	724.5501

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
16 Pyrene	202	6.780	6.786	(0.880)	75735	1.73276	694.4352	
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	76682	1.63356	654.6789	
19 Chrysene	228	7.721	7.727	(1.002)	78352	1.66788	668.4346	
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	162054	3.76773	1509.9891	
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	45084	1.02179	409.5008	
22 Benzo(a)pyrene	252	8.827	8.833	(0.993)	77244	1.84893	740.9912	
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050	(1.130)	73793	1.87763	752.4967(M)	
25 Dibenzo(a,h)anthracene	278	10.056	10.068	(1.132)	25688	0.66823	267.8048	
26 Benzo(g,h,i)perylene	276	10.392	10.397	(1.169)	82548	2.00787	804.6914	

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC27008.D

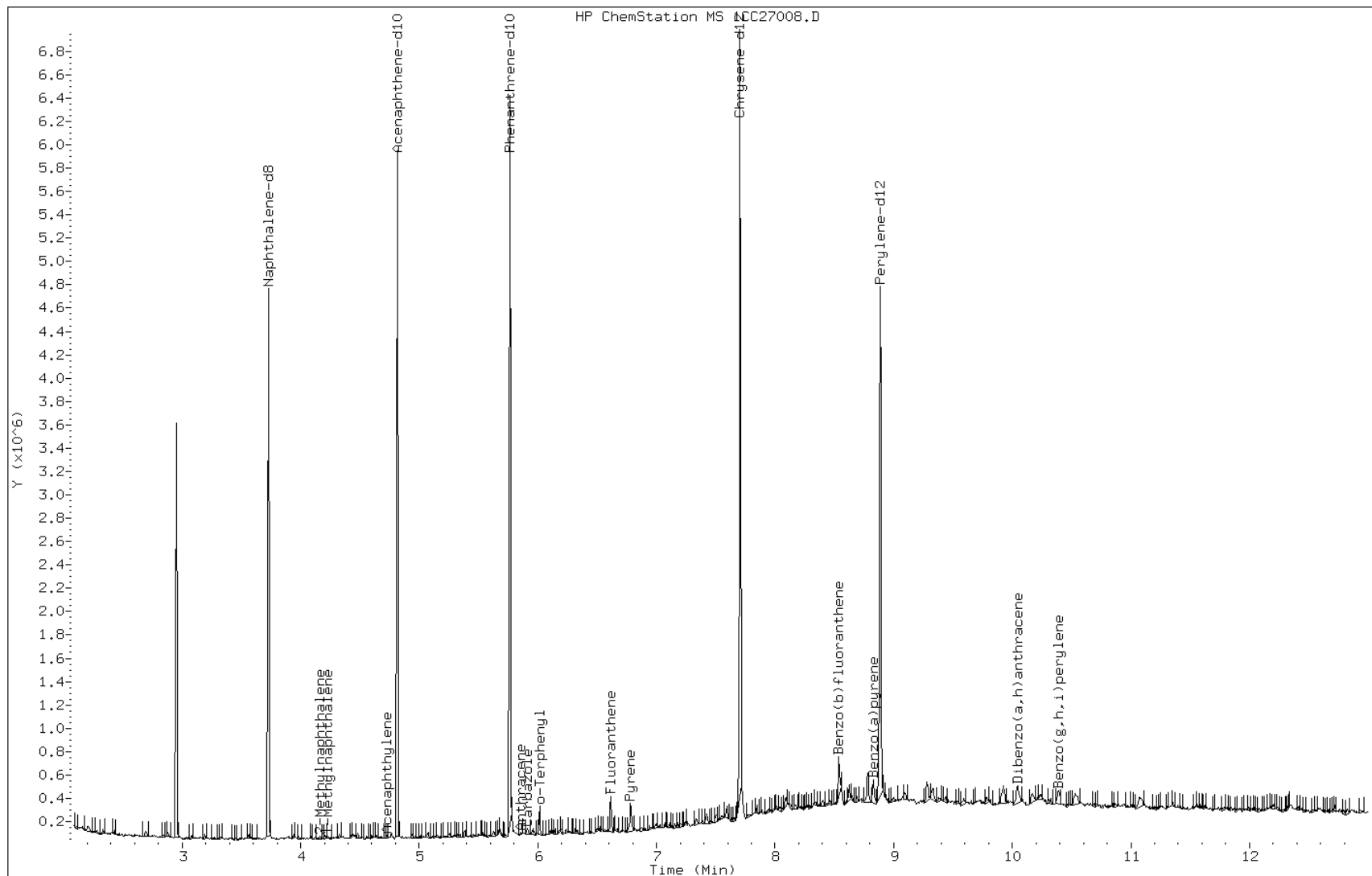
Date: 27-MAR-2013 12:20

Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

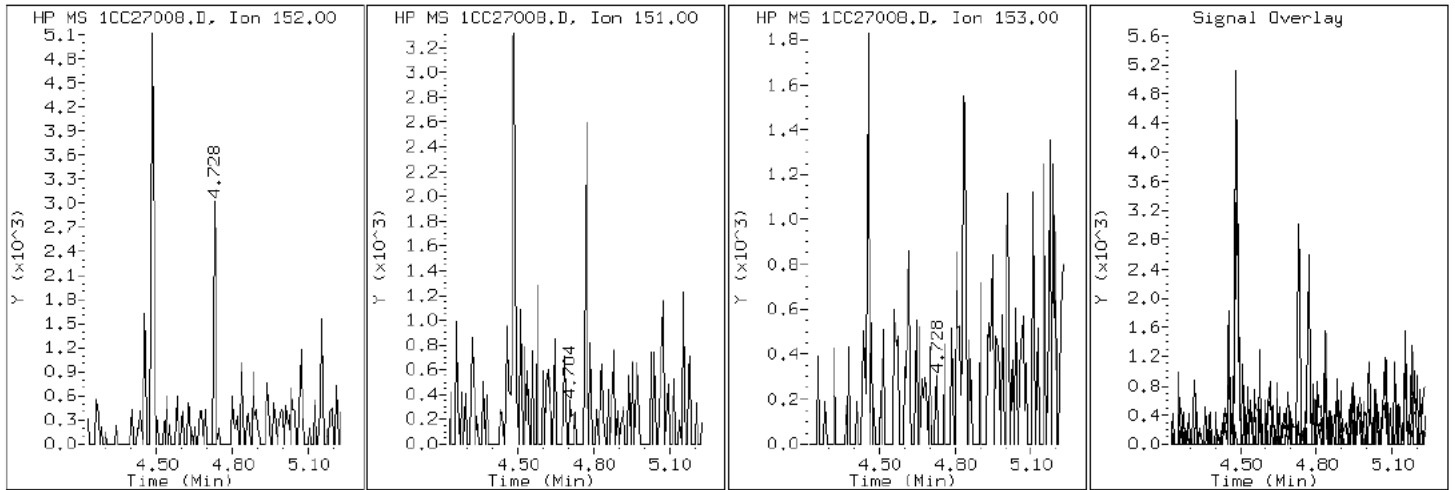
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

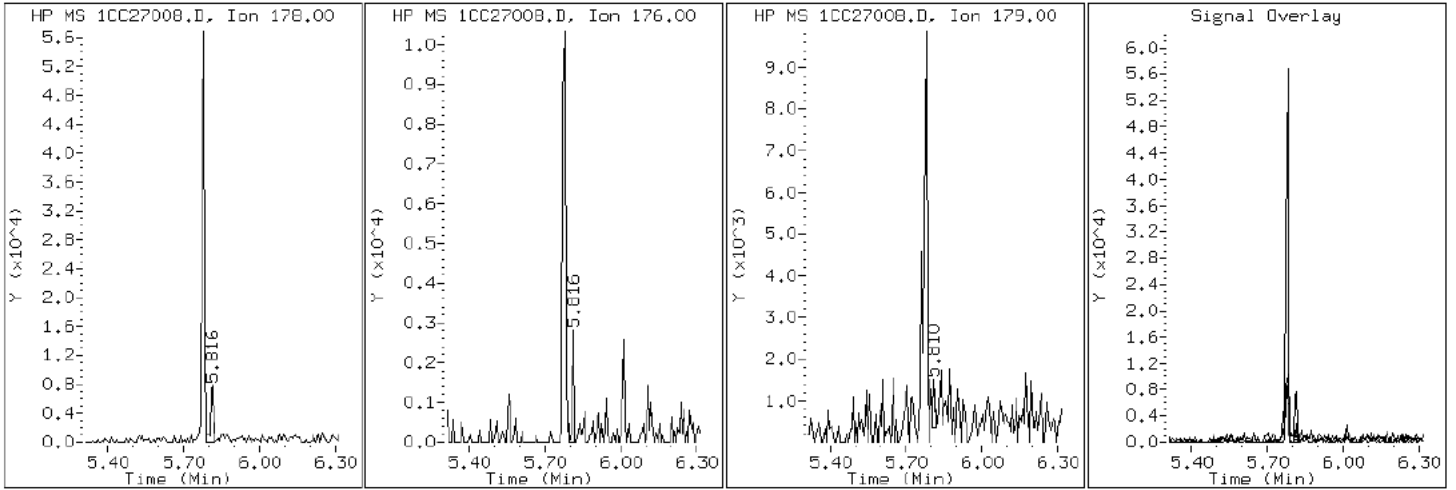
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

12 Anthracene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

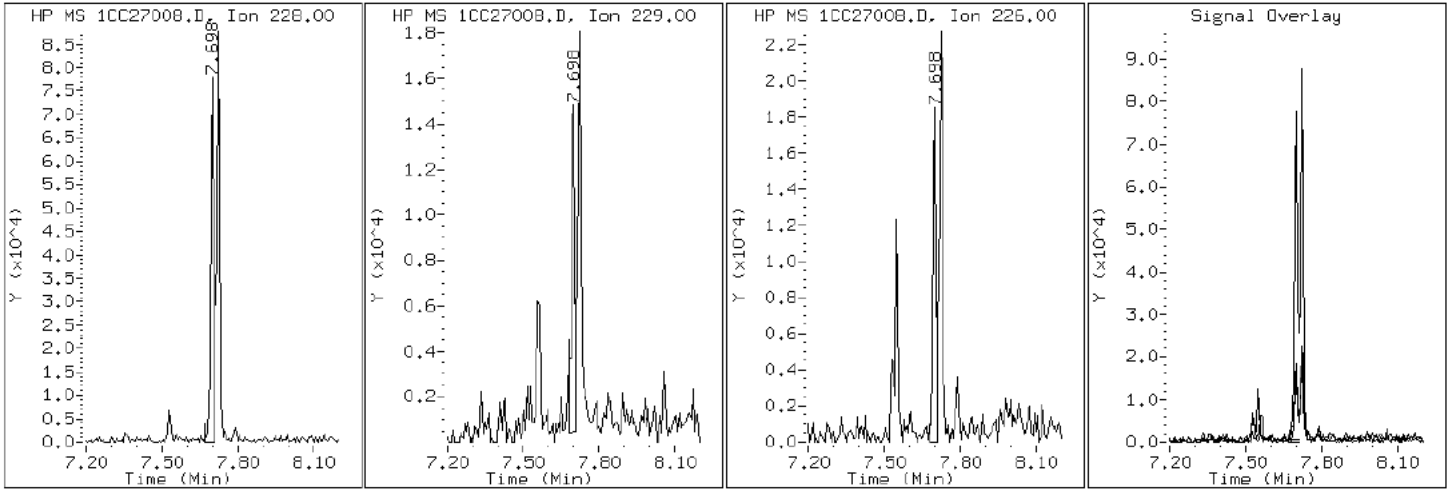
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

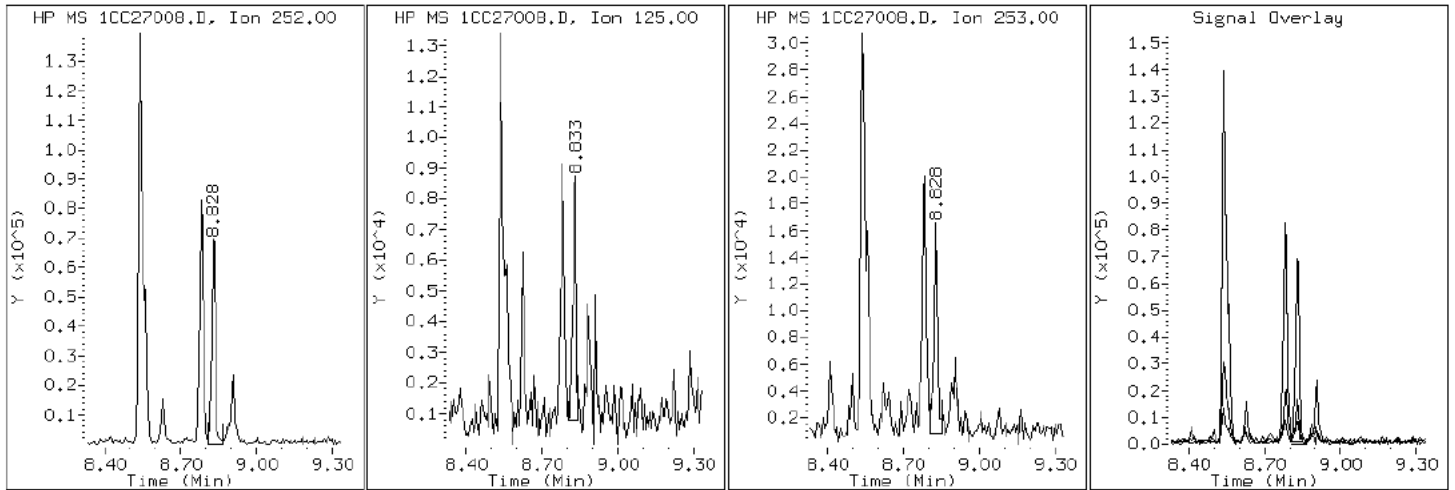
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

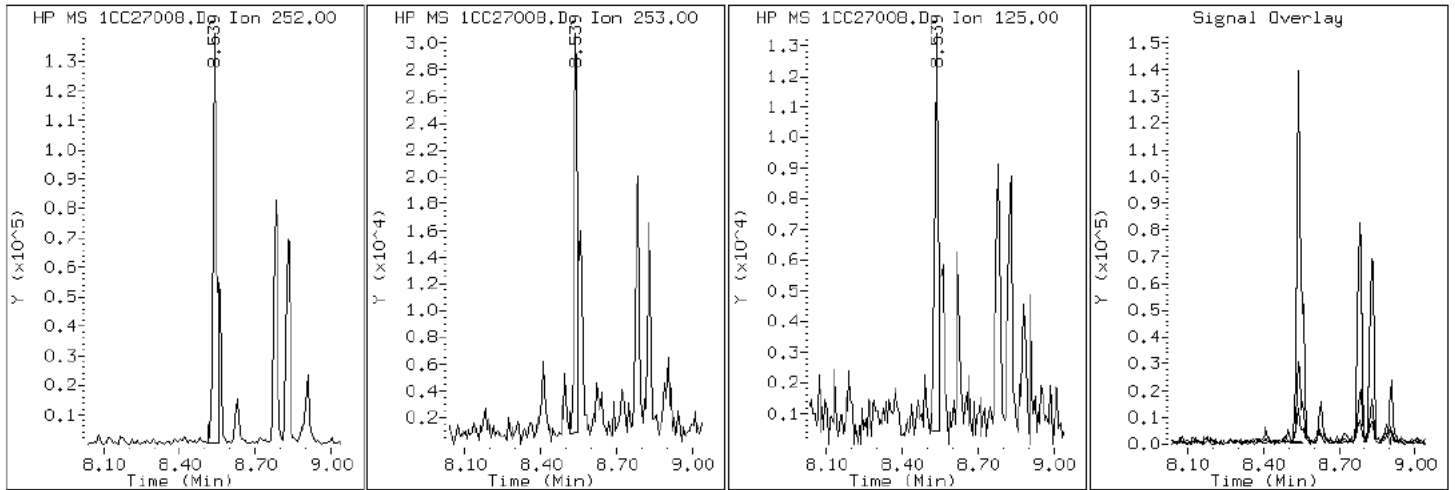
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

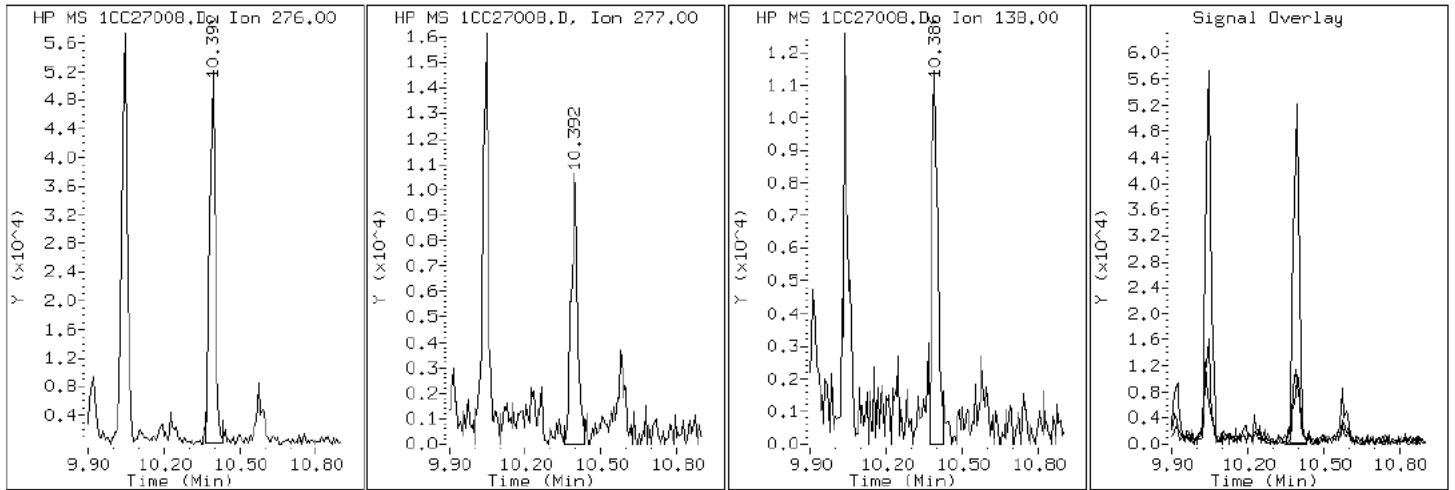
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

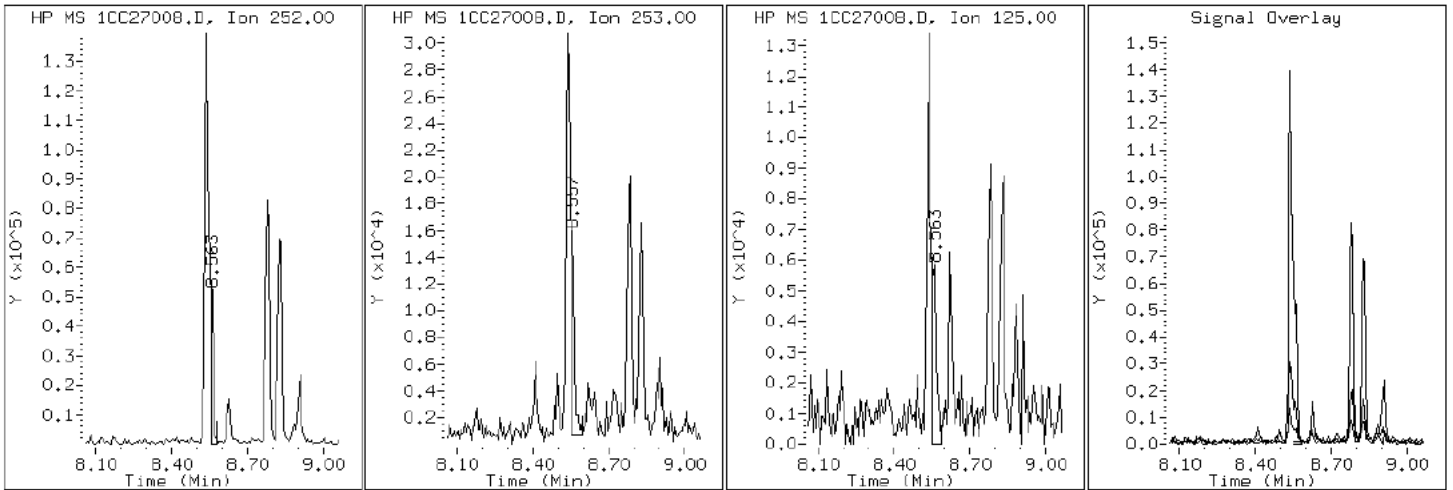
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

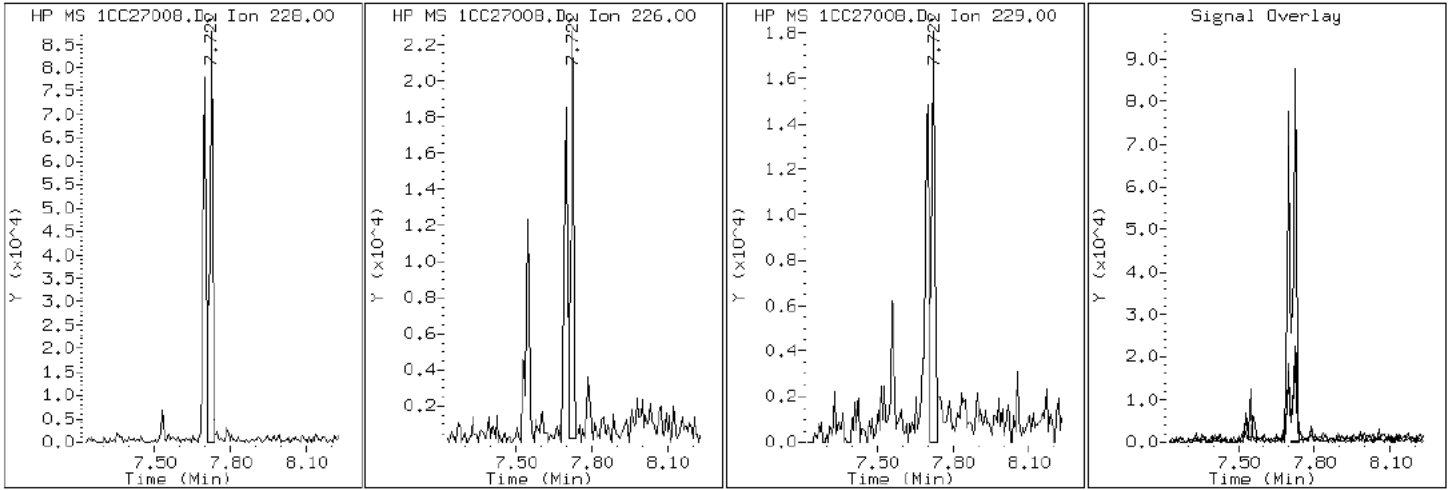
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

19 Chrysene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

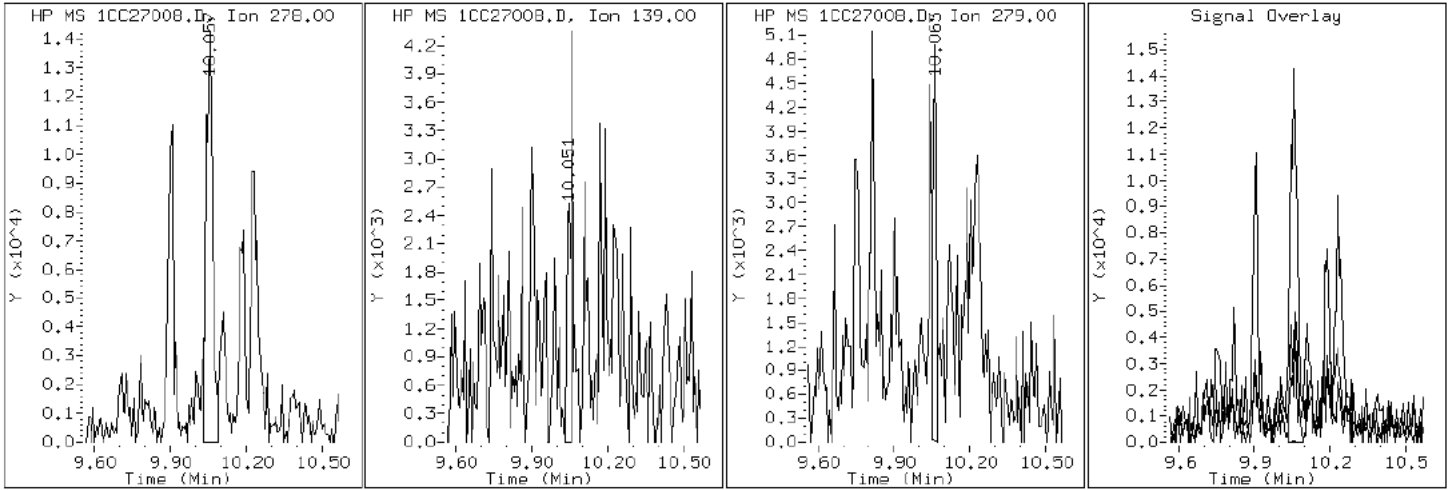
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

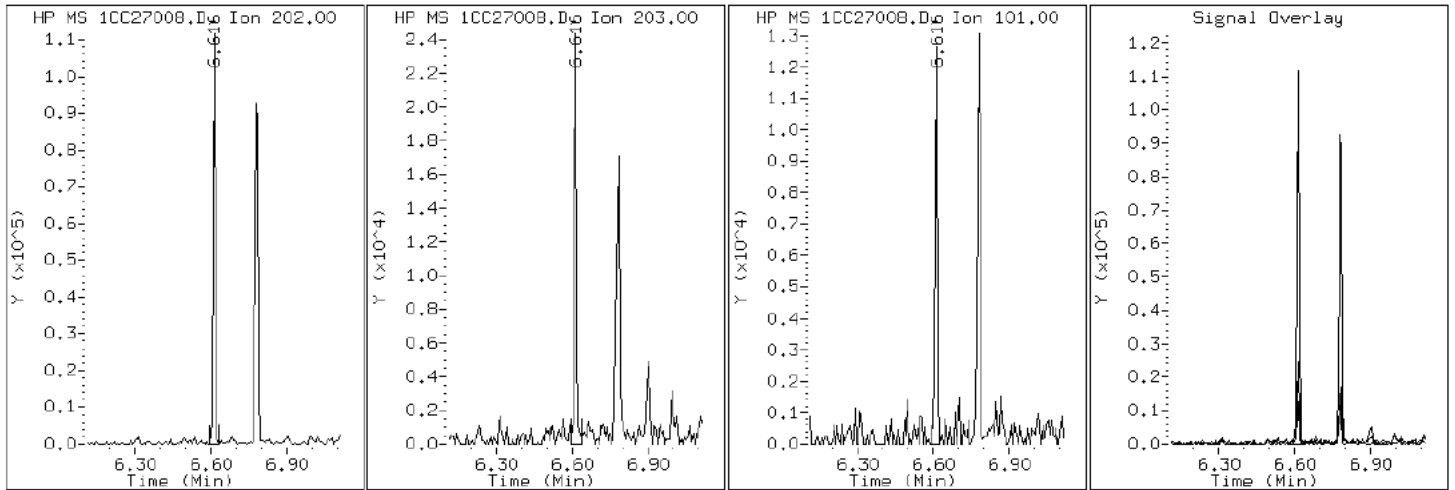
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

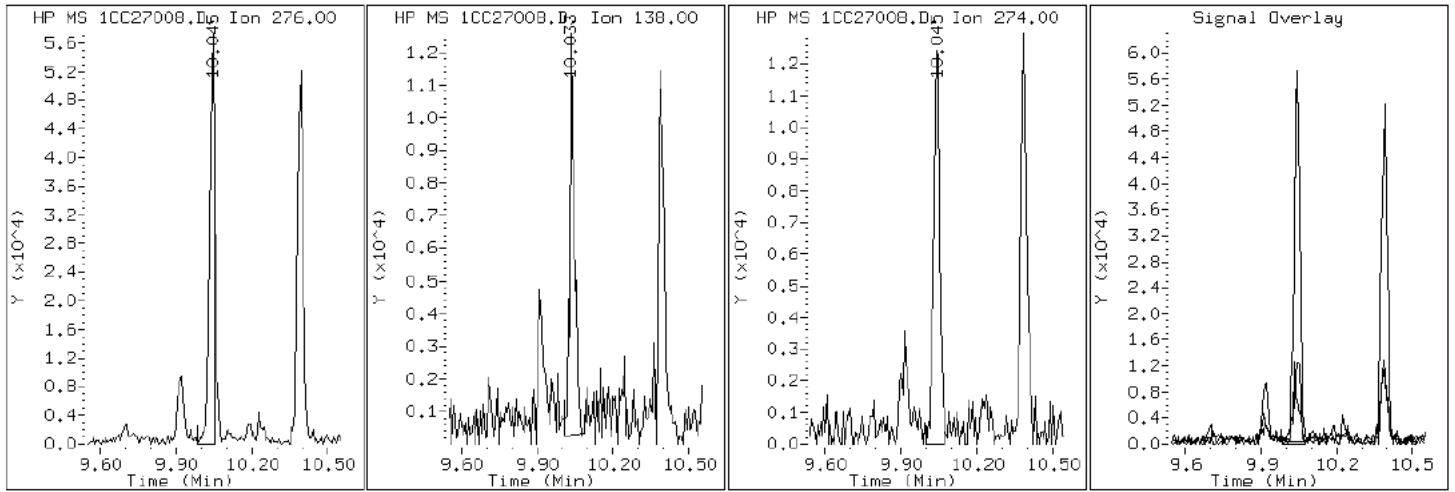
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

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



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

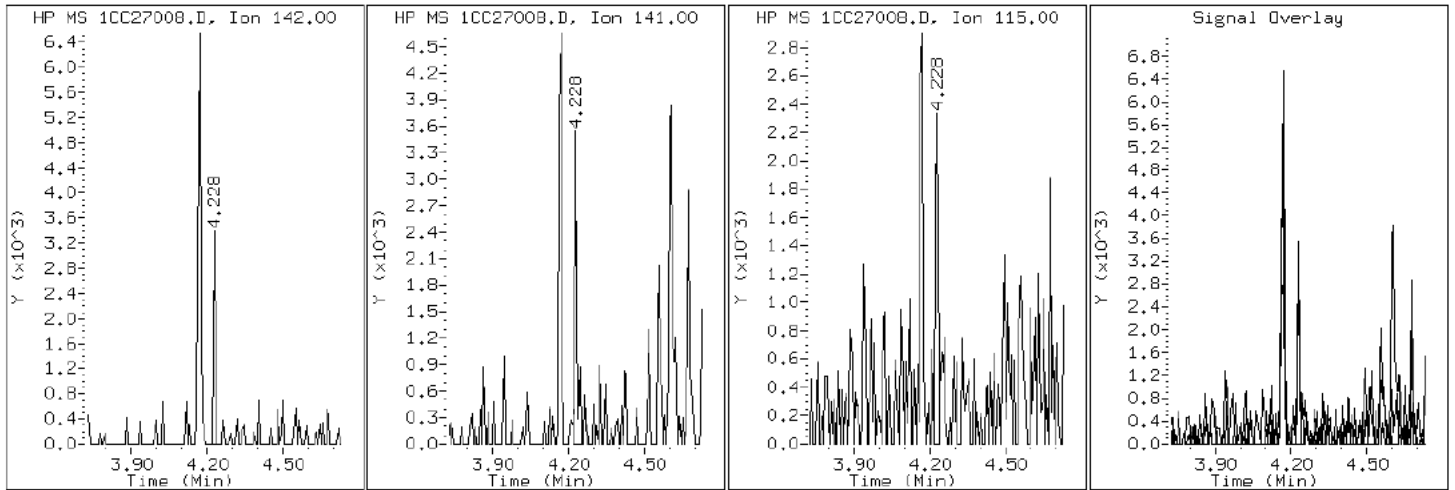
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

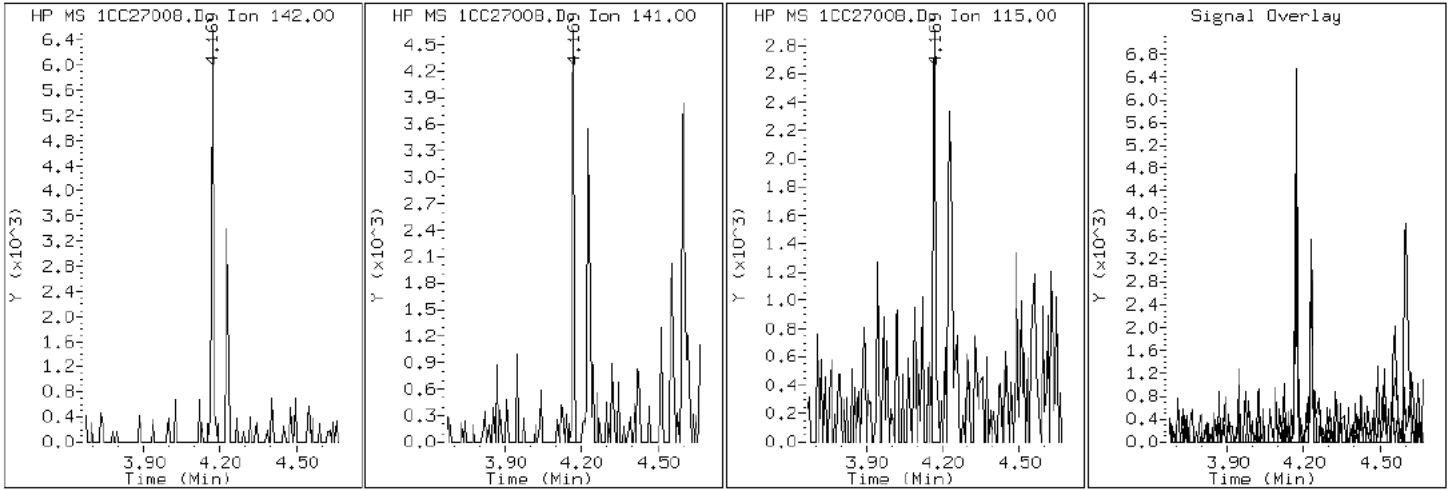
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

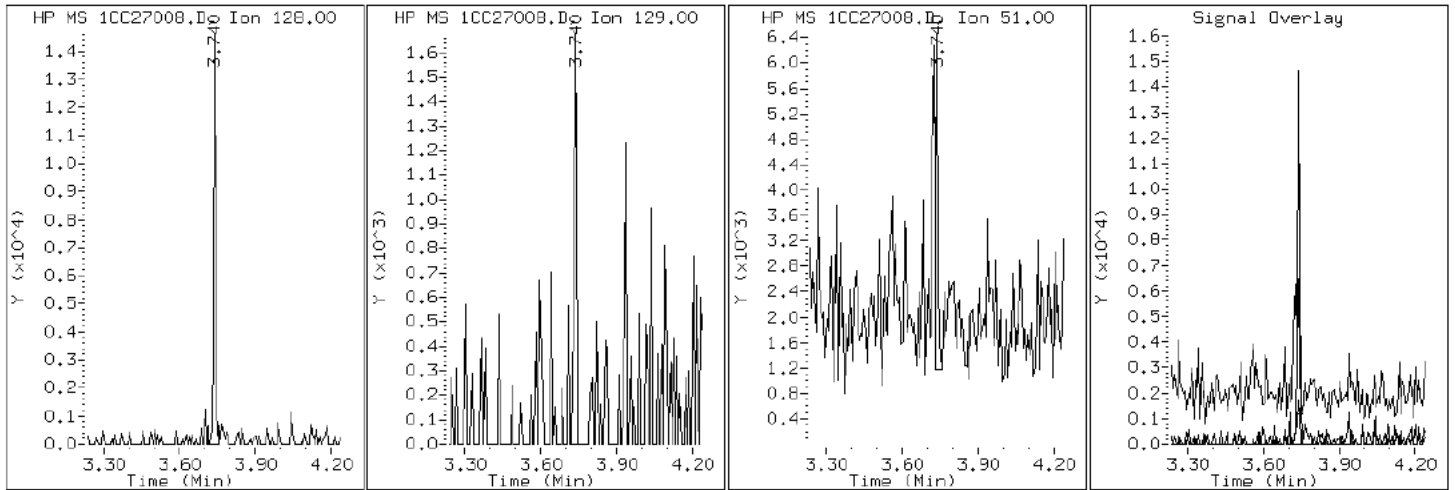
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

2 Naphthalene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

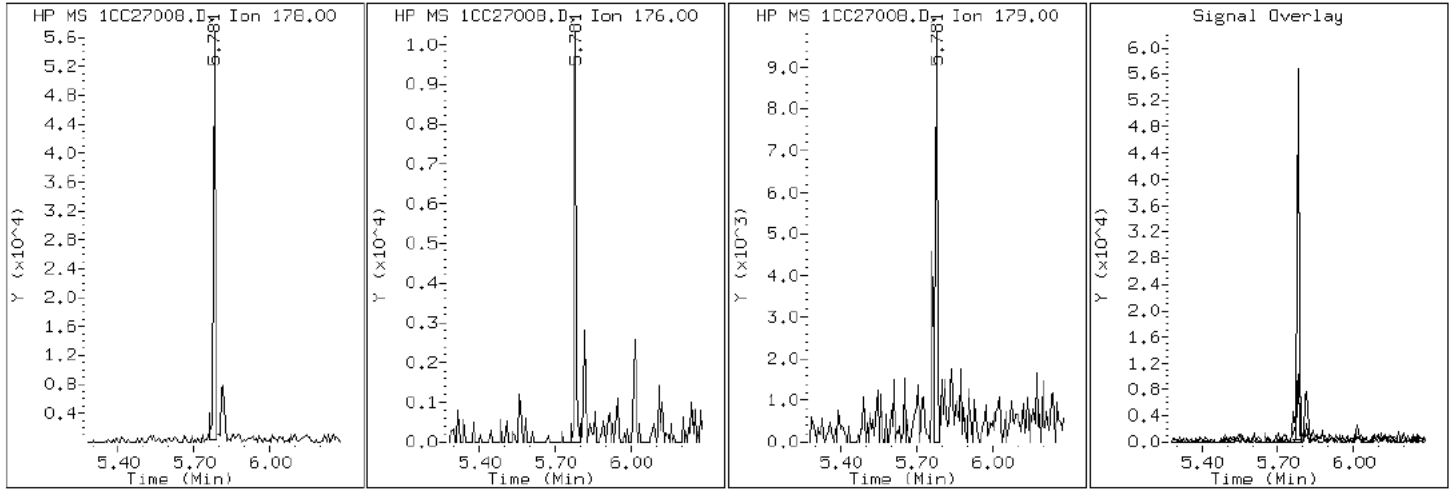
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27008.D

Date: 27-MAR-2013 12:20

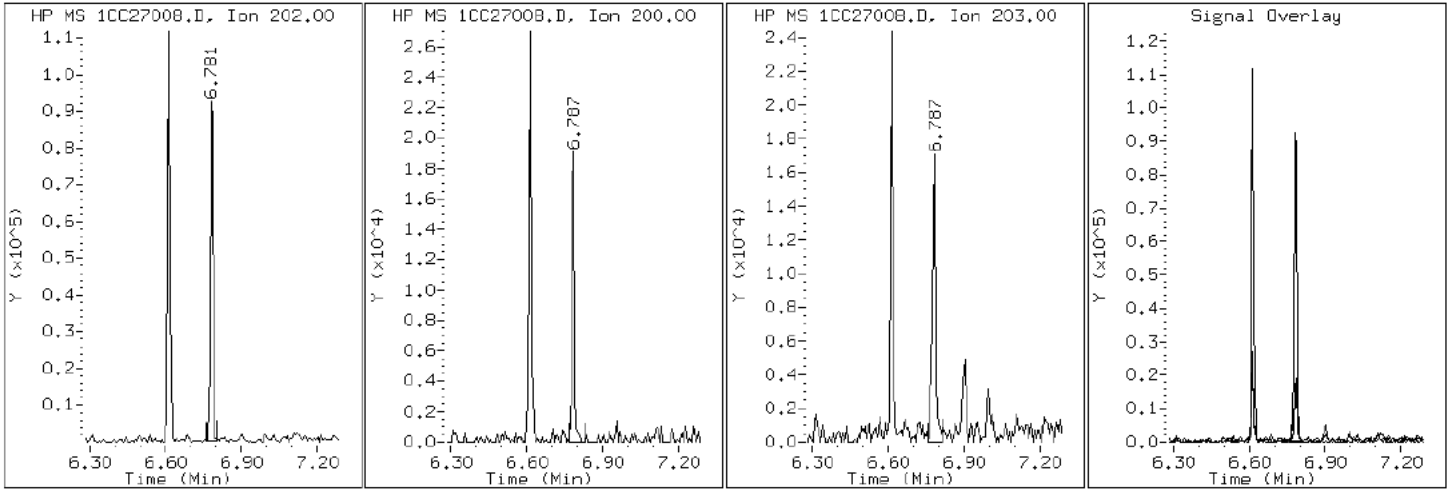
Client ID: CV1156B-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-a

Operator: SCC

16 Pyrene

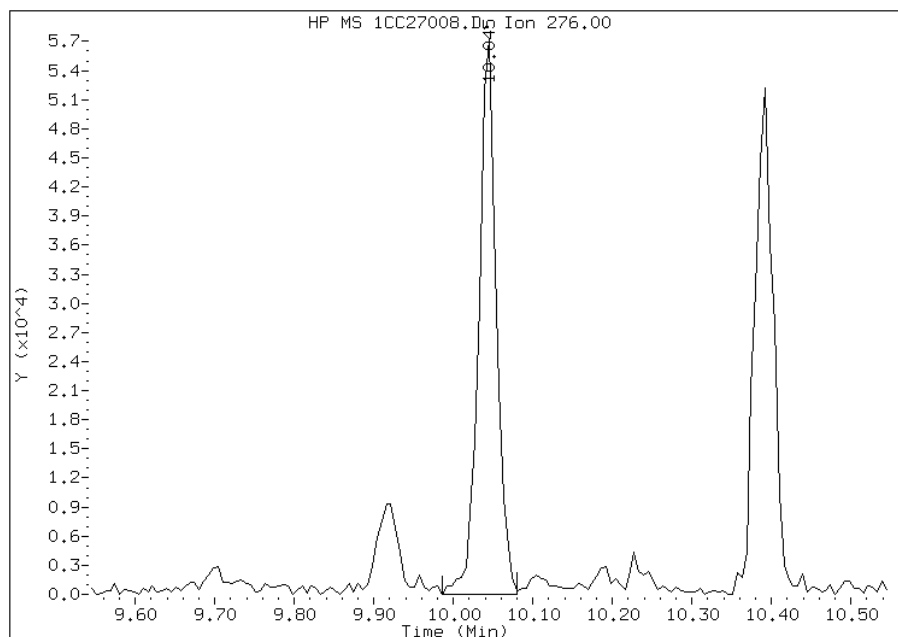


Manual Integration Report

Data File: 1CC27008.D
Inj. Date and Time: 27-MAR-2013 12:20
Instrument ID: BSMC5973.i
Client ID: CV1156B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/27/2013

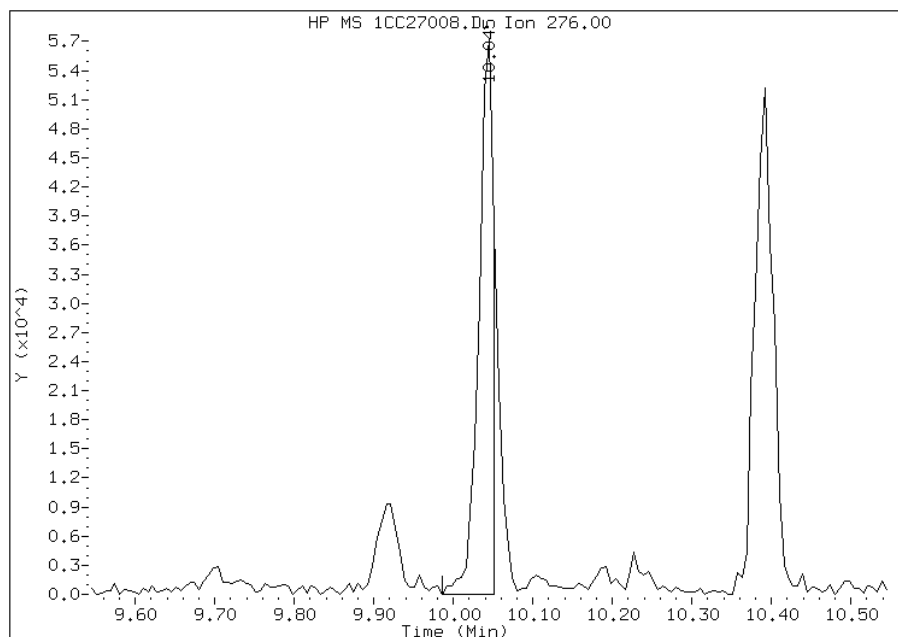
Processing Integration Results

RT: 10.05
Response: 87315
Amount: 2
Conc: 890



Manual Integration Results

RT: 10.05
Response: 73793
Amount: 2
Conc: 752



Manually Integrated By: cantins
Modification Date: 27-Mar-2013 13:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1240A-CS Lab Sample ID: 680-88592-20
 Matrix: Solid Lab File ID: 1CC27014.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 14:50
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07
 Sample wt/vol: 14.97(g) Date Analyzed: 03/27/2013 14:11
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 23.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	36	J	210	26
120-12-7	Anthracene	98		44	22
56-55-3	Benzo[a]anthracene	300		42	21
50-32-8	Benzo[a]pyrene	260		55	27
205-99-2	Benzo[b]fluoranthene	450		64	32
191-24-2	Benzo[g,h,i]perylene	190		110	23
207-08-9	Benzo[k]fluoranthene	150		42	19
218-01-9	Chrysene	330		47	24
53-70-3	Dibenz(a,h)anthracene	68	J	110	22
206-44-0	Fluoranthene	440		110	21
86-73-7	Fluorene	39	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	140		110	37
90-12-0	1-Methylnaphthalene	98	J	210	23
91-57-6	2-Methylnaphthalene	110	J	210	37
91-20-3	Naphthalene	94	J	210	23
85-01-8	Phenanthrene	340		42	21
129-00-0	Pyrene	420		110	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\1C032713.b\1CC27014.D
 Lab Smp Id: 680-88592-A-20-A Client Smp ID: CV1240A-CS
 Inj Date : 27-MAR-2013 14:11
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-20-a
 Misc Info : 680-88592-A-20-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 14
 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	14.970	Weight Extracted
M	23.778	% 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		3.727	3.727	(1.000)	735646	40.0000		
* 6 Acenaphthene-d10	164		4.815	4.815	(1.000)	584434	40.0000		
* 10 Phenanthrene-d10	188		5.762	5.762	(1.000)	1081421	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	30497	1.86782	654.7733	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1204552	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1177853	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	5122	0.26744	93.7540(Q)	
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	4088	0.32000	112.1778	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	3244	0.27881	97.7400	
5 Acenaphthylene	152		4.727	4.727	(0.982)	2415	0.10249	35.9295(Q)	
9 Fluorene	166		5.157	5.157	(1.071)	2047	0.11052	38.7427	
11 Phenanthrene	178		5.780	5.780	(1.003)	30360	0.97090	340.3545	
12 Anthracene	178		5.815	5.815	(1.009)	8541	0.27928	97.9044	
13 Carbazole	167		5.921	5.921	(1.028)	2926	0.10763	37.7311(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.615	6.615	(1.148)	43176	1.26082	441.9877
16 Pyrene	202	6.786	6.786	(0.881)	38589	1.19210	417.8970
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	29524	0.84923	297.7013
19 Chrysene	228	7.721	7.727	(1.002)	32789	0.94243	330.3754
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	39348	1.27829	448.1124
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	13243	0.41938	147.0175(Q)
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	21756	0.72765	255.0807
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.050	(1.130)	11066	0.39344	137.9209(M)
25 Dibenzo(a,h)anthracene	278	10.045	10.068	(1.130)	5302	0.19272	67.5582(MH)
26 Benzo(g,h,i)perylene	276	10.386	10.397	(1.169)	15995	0.54363	190.5712(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: 1CC27014.D

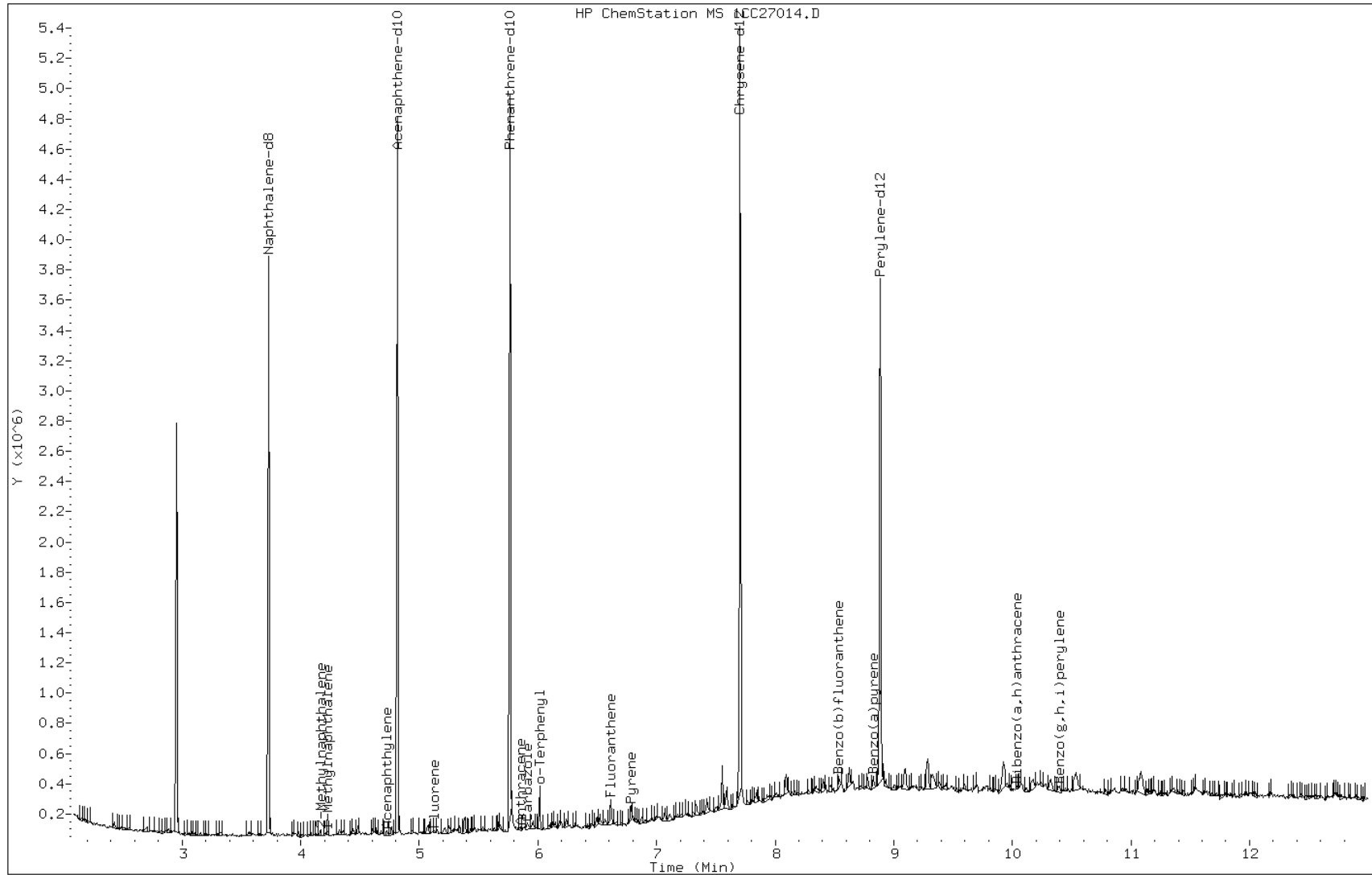
Date: 27-MAR-2013 14:11

Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

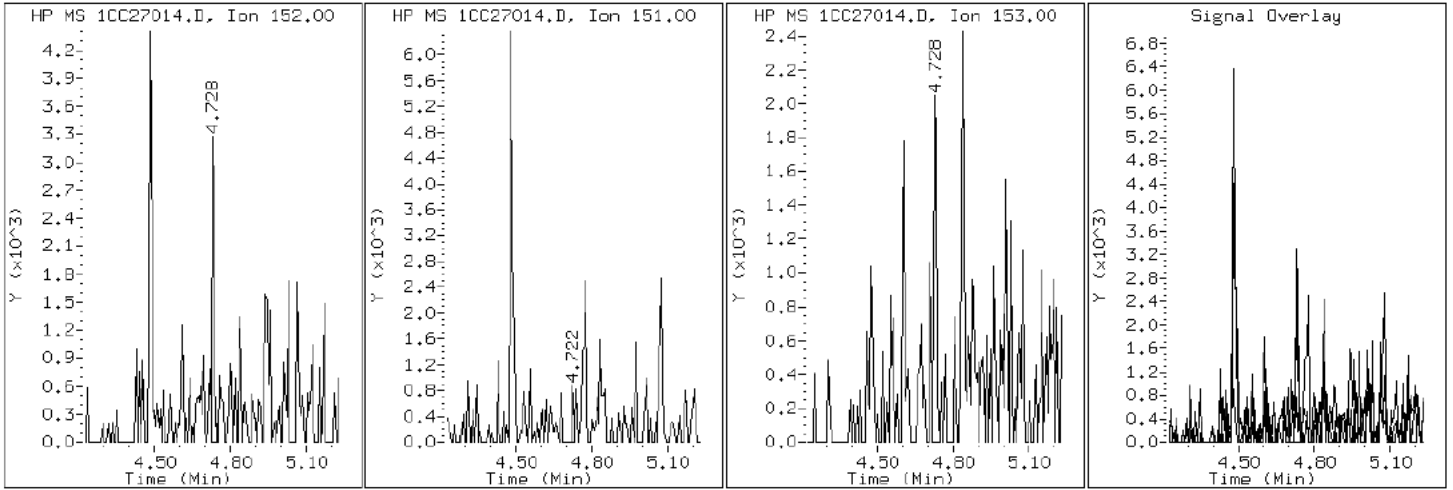
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

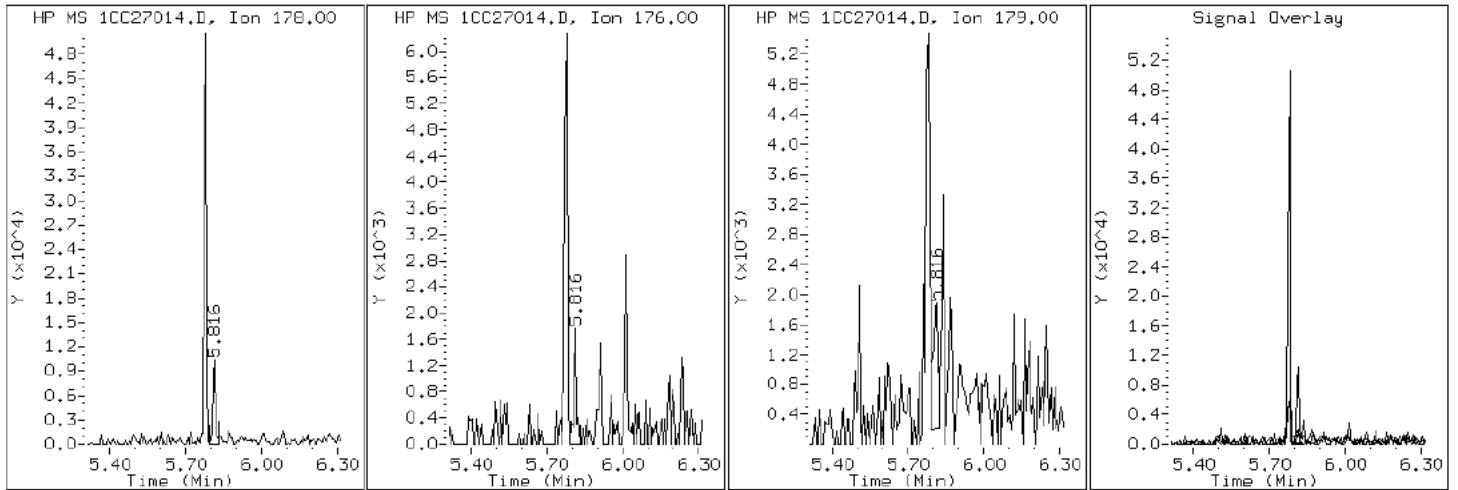
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

12 Anthracene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

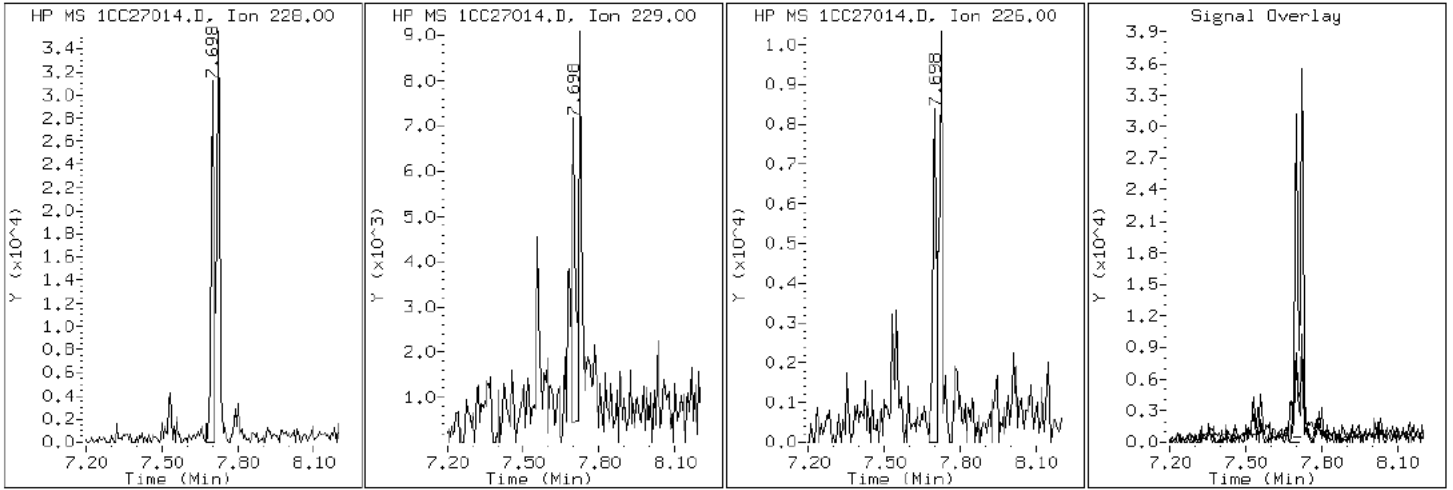
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

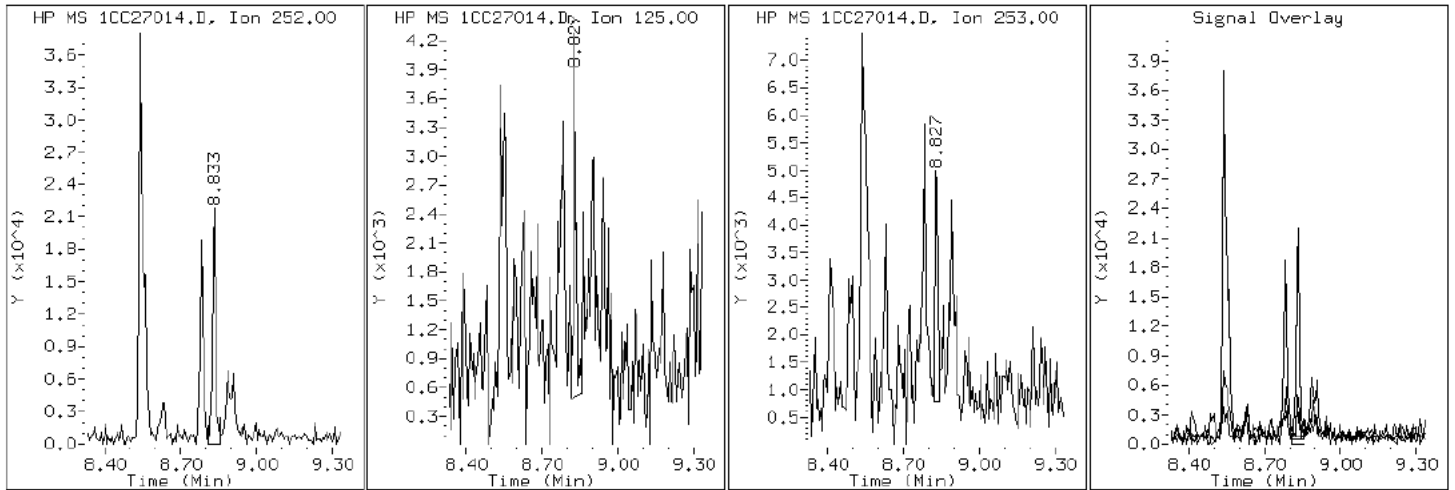
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

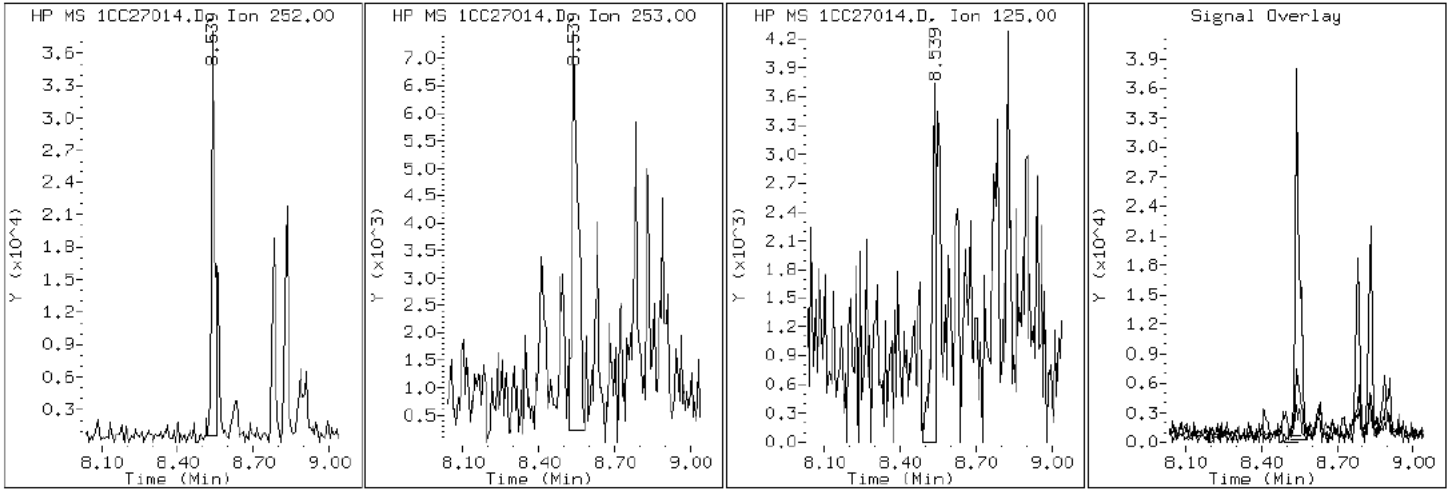
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

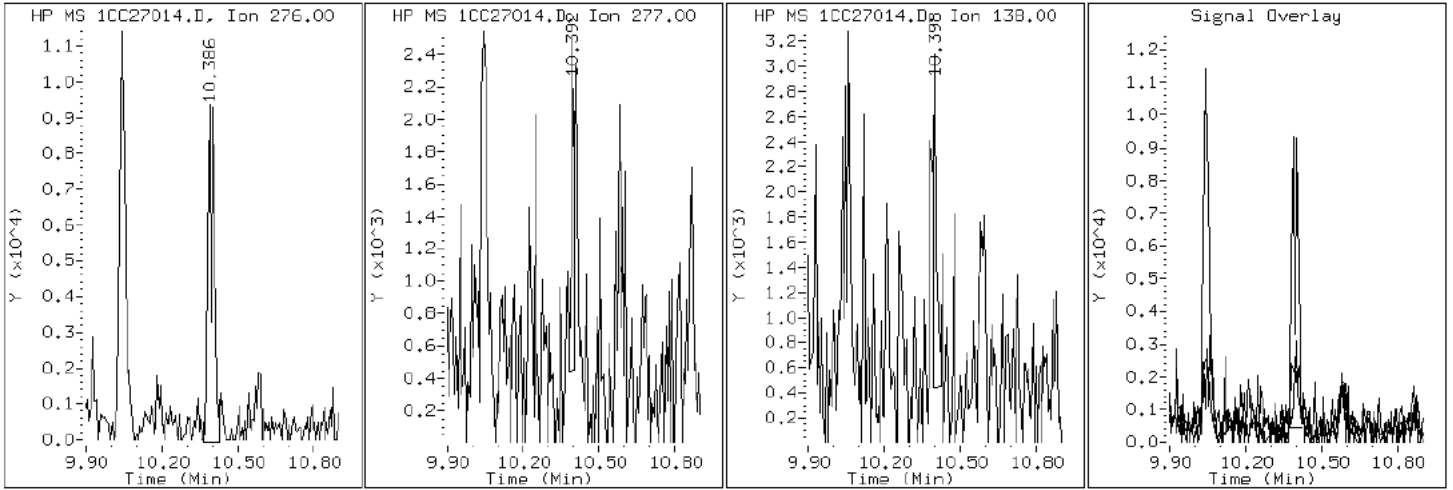
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

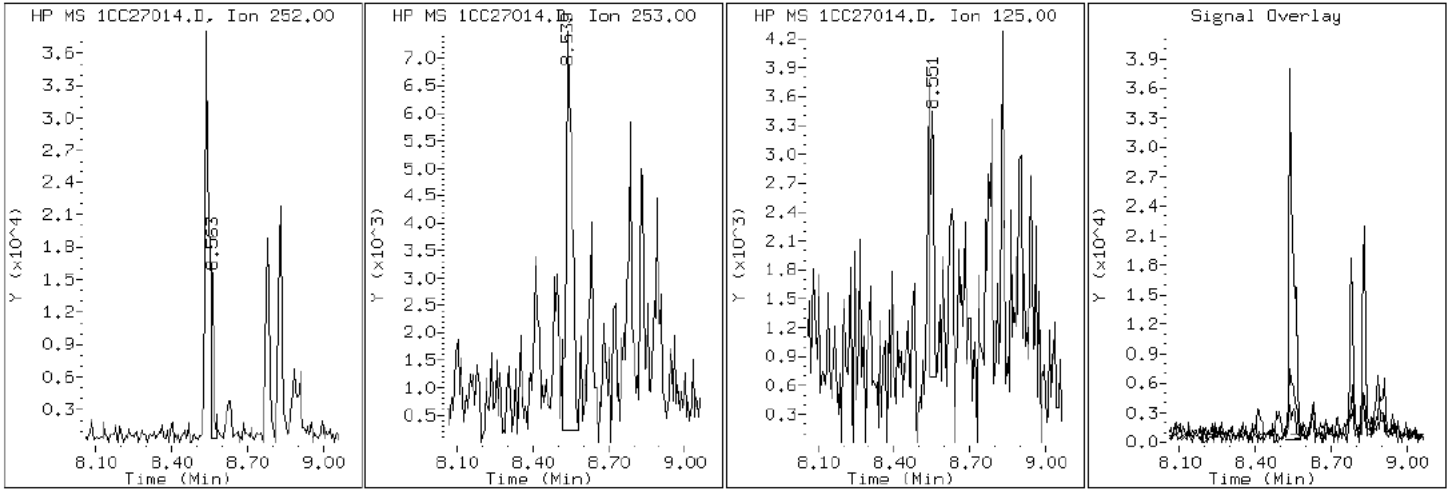
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

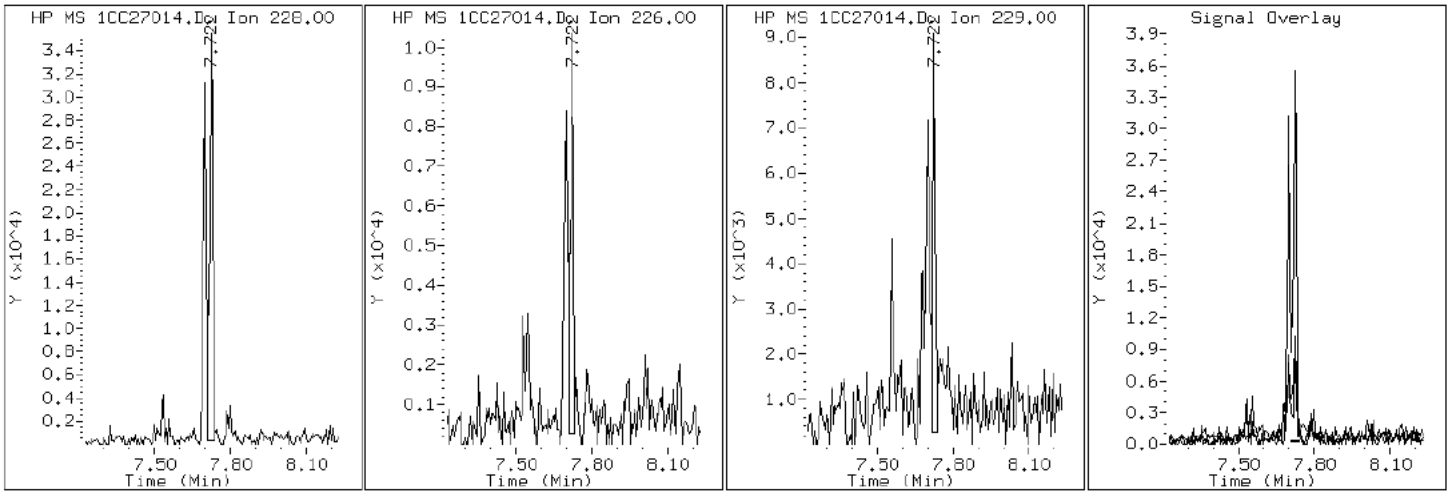
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

19 Chrysene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

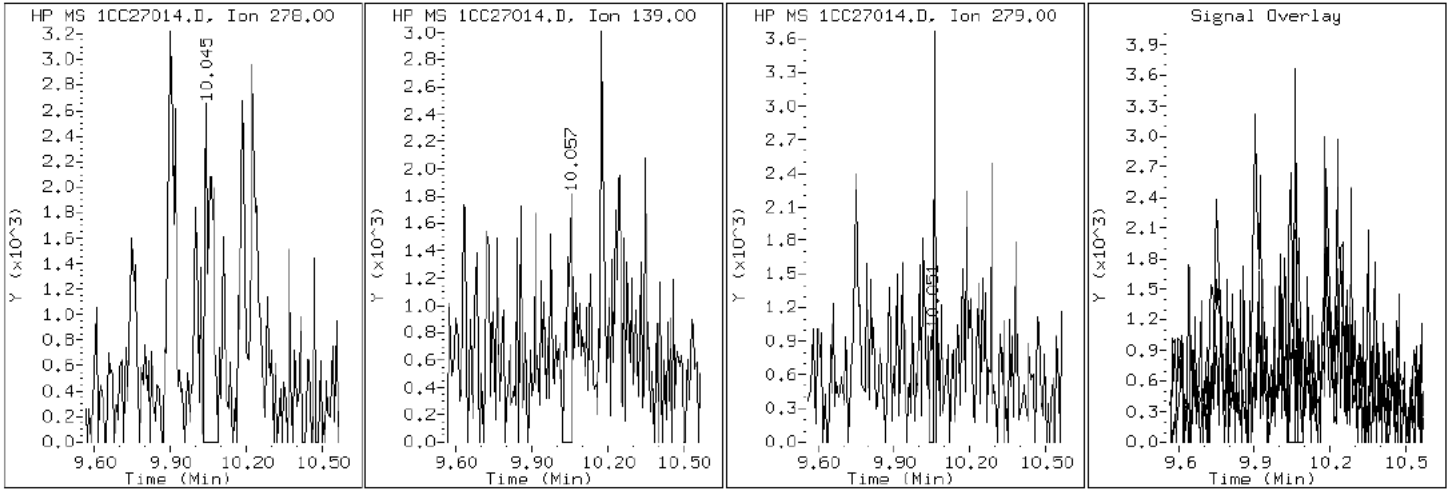
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

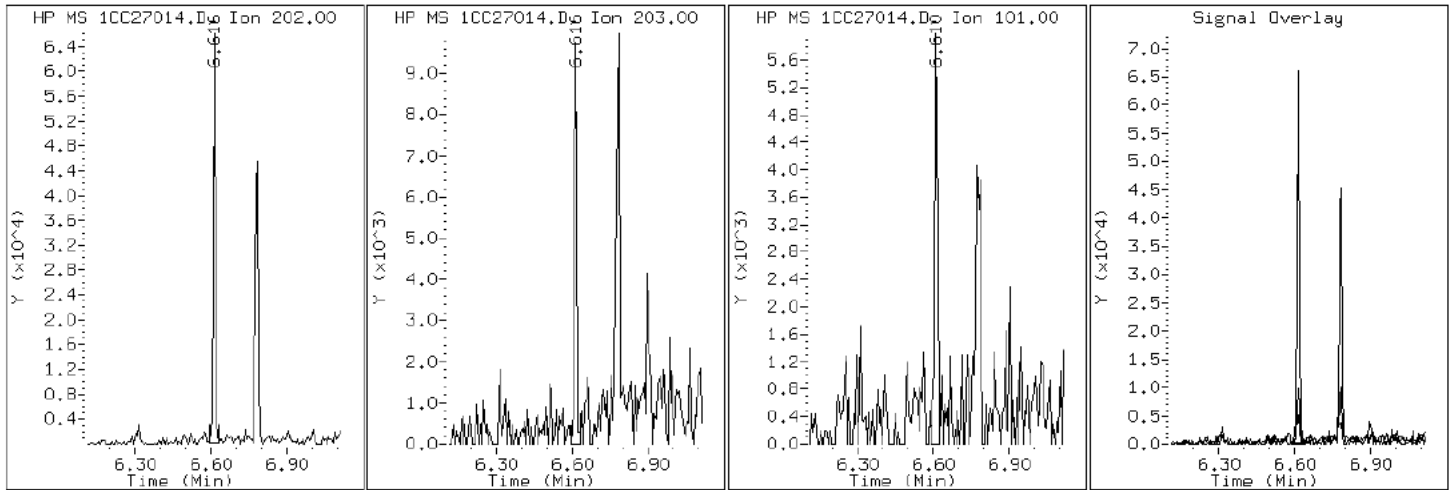
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

15 Fluoranthene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

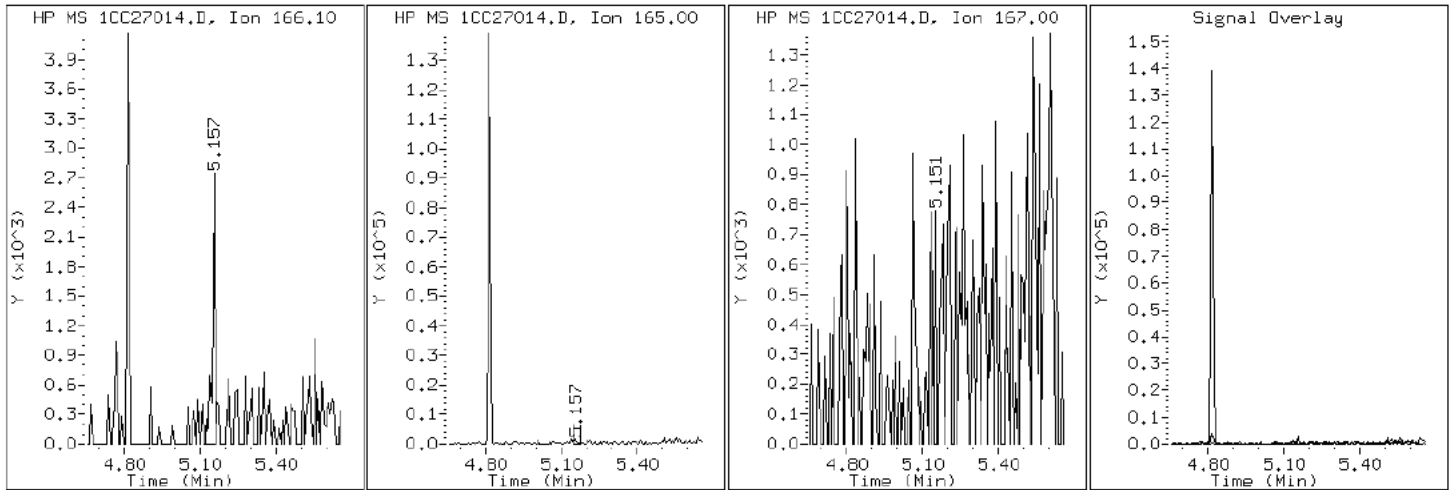
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

9 Fluorene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

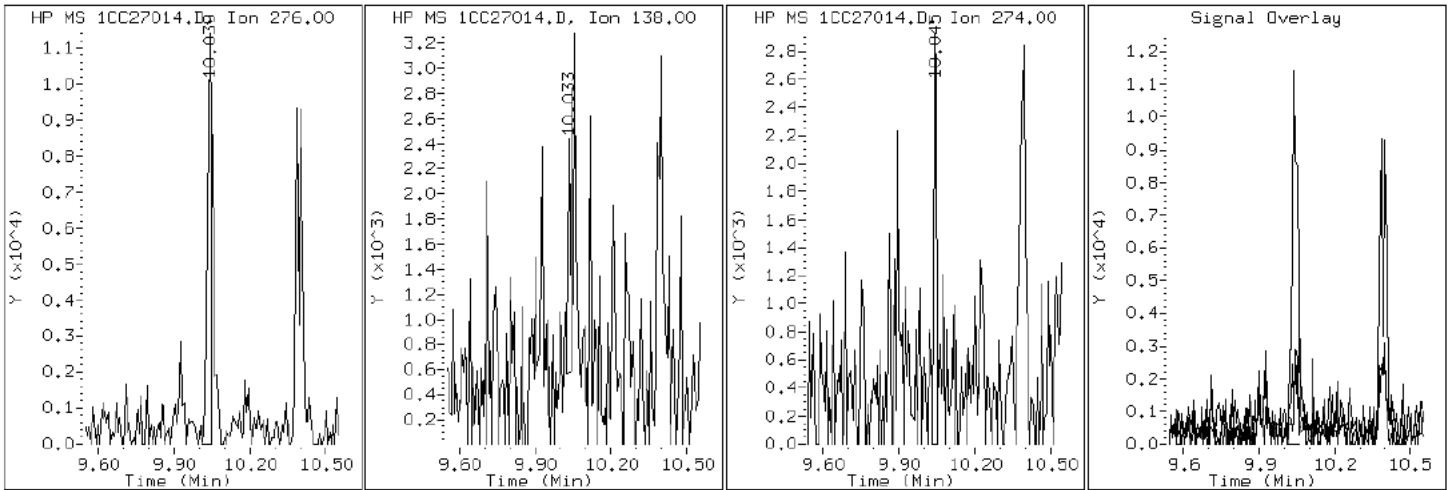
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

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



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

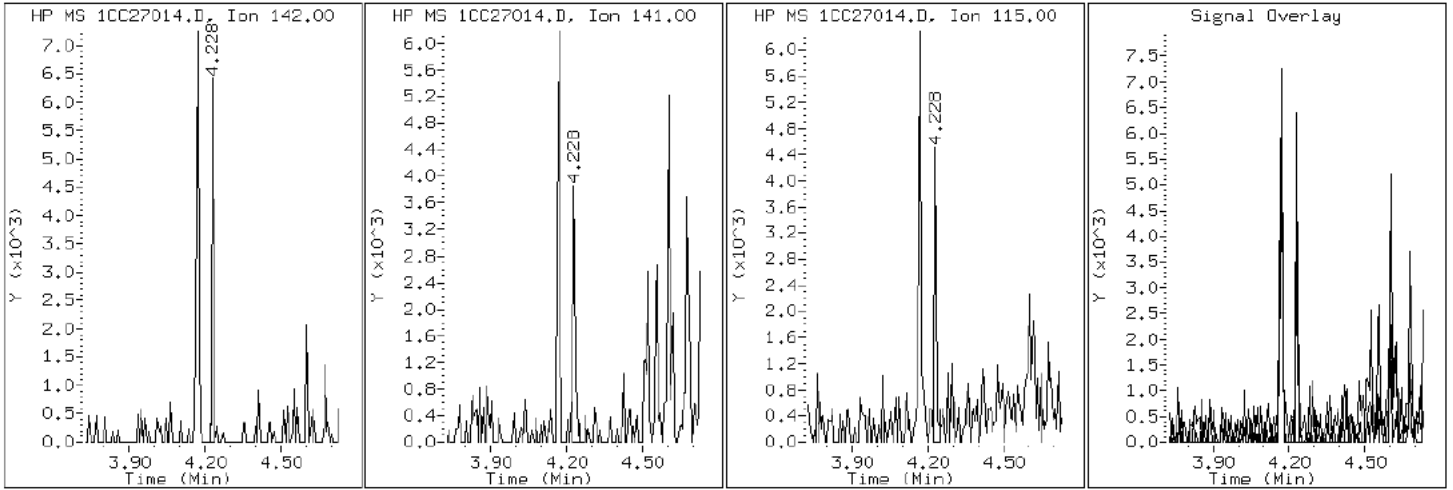
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

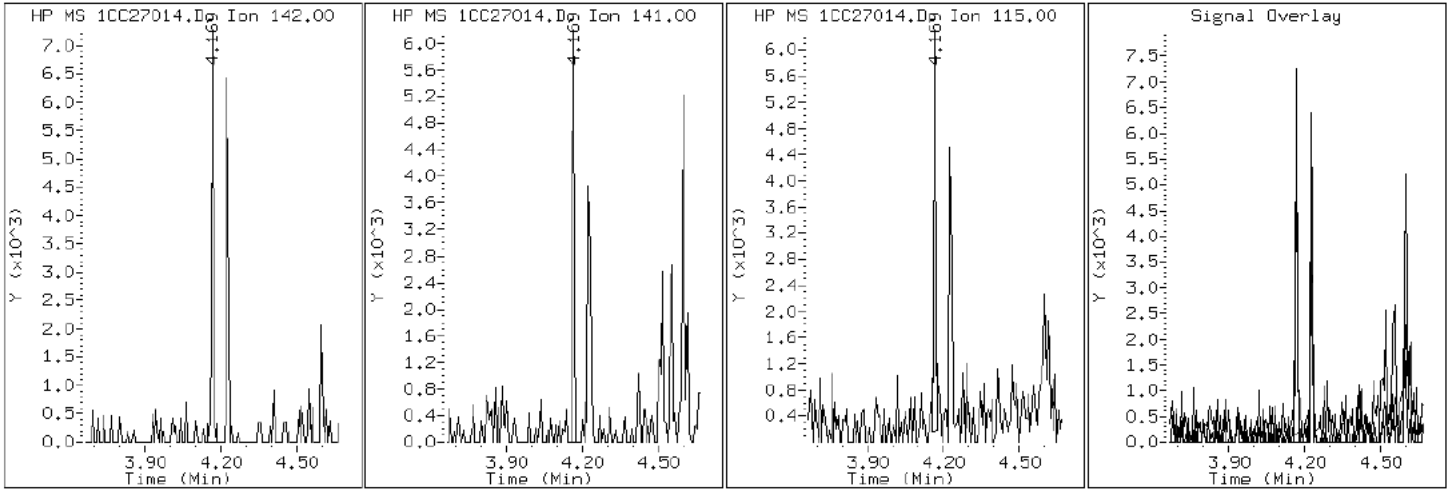
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

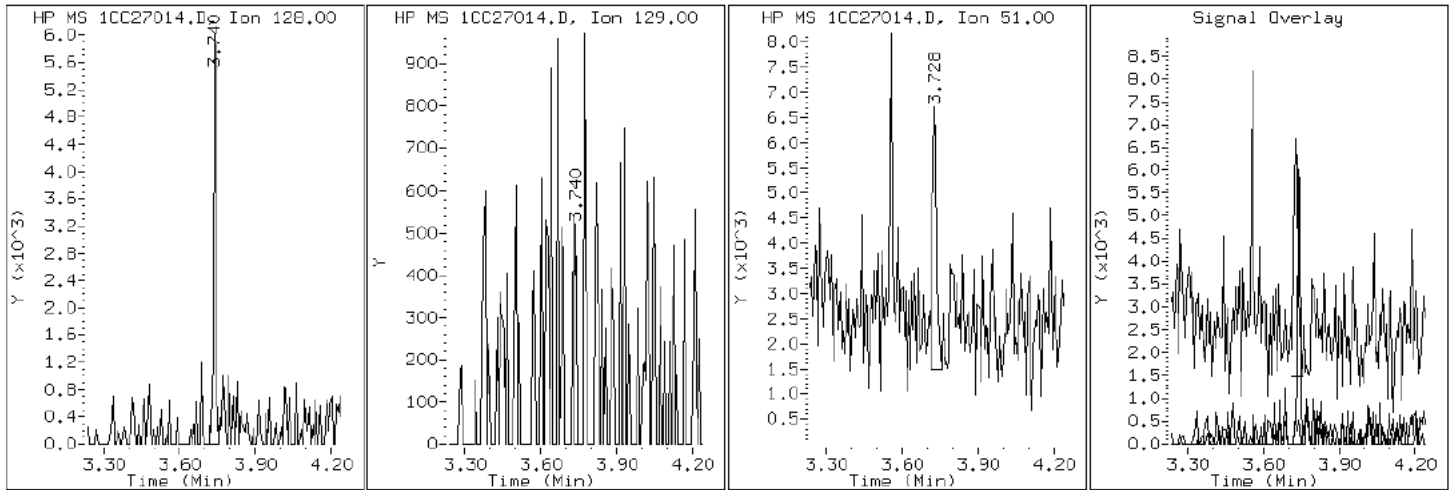
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

2 Naphthalene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

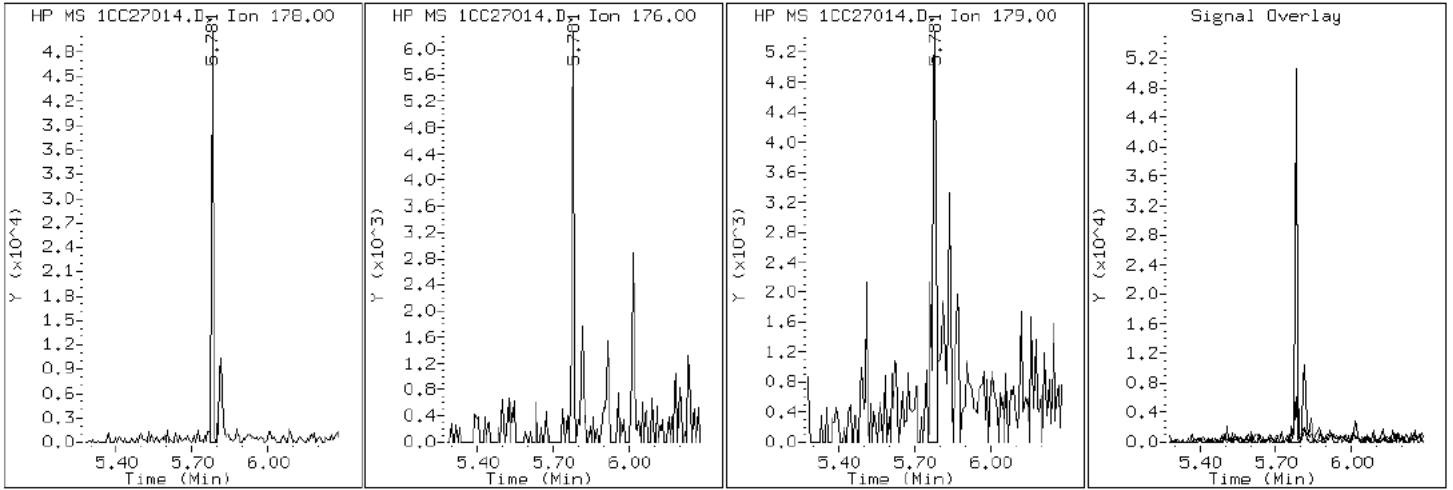
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

11 Phenanthrene



Data File: 1CC27014.D

Date: 27-MAR-2013 14:11

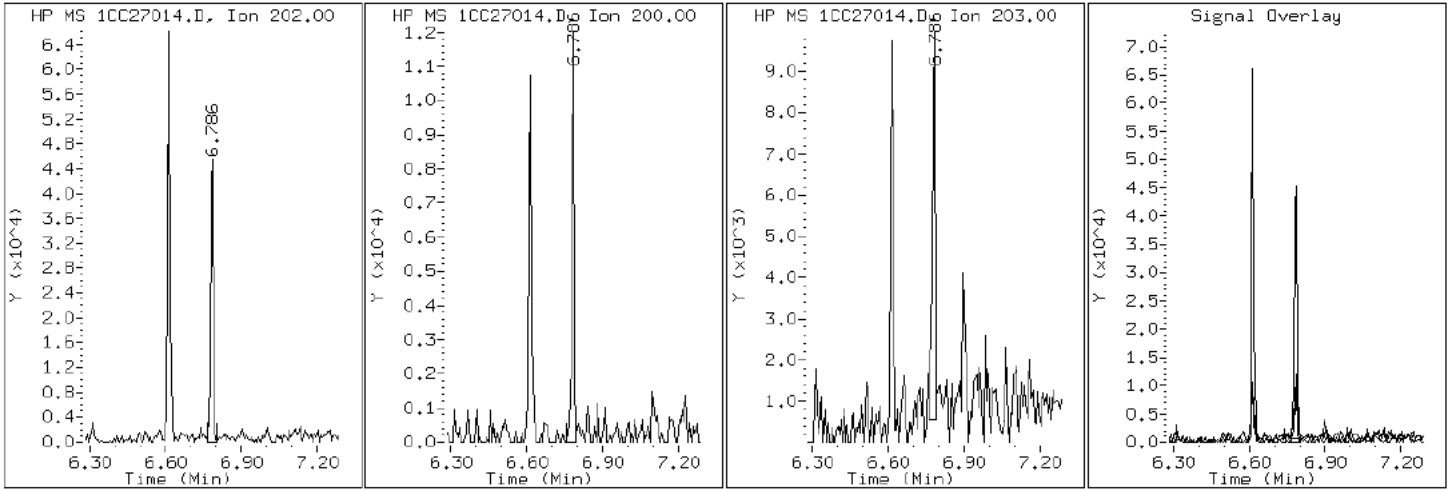
Client ID: CV1240A-CS

Instrument: BSMC5973.i

Sample Info: 680-88592-a-20-a

Operator: SCC

16 Pyrene

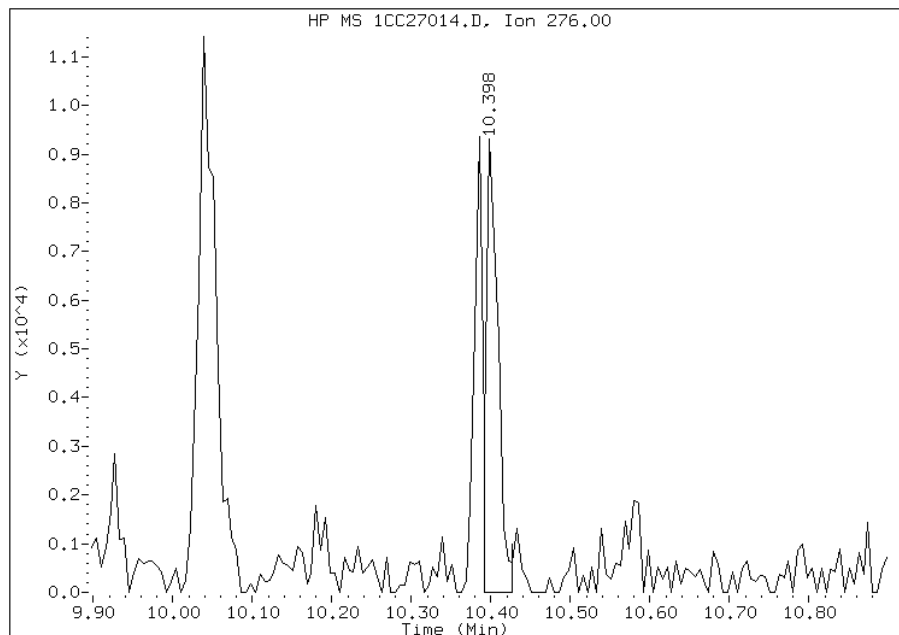


Manual Integration Report

Data File: 1CC27014.D
Inj. Date and Time: 27-MAR-2013 14:11
Instrument ID: BSMC5973.i
Client ID: CV1240A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/01/2013

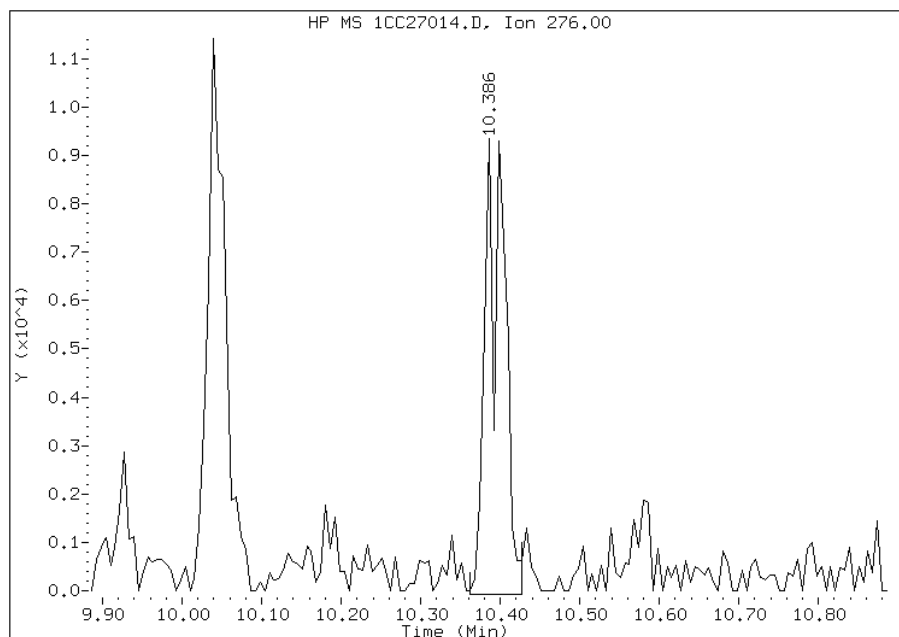
Processing Integration Results

RT: 10.40
Response: 9747
Amount: 0
Conc: 116



Manual Integration Results

RT: 10.39
Response: 15995
Amount: 1
Conc: 191



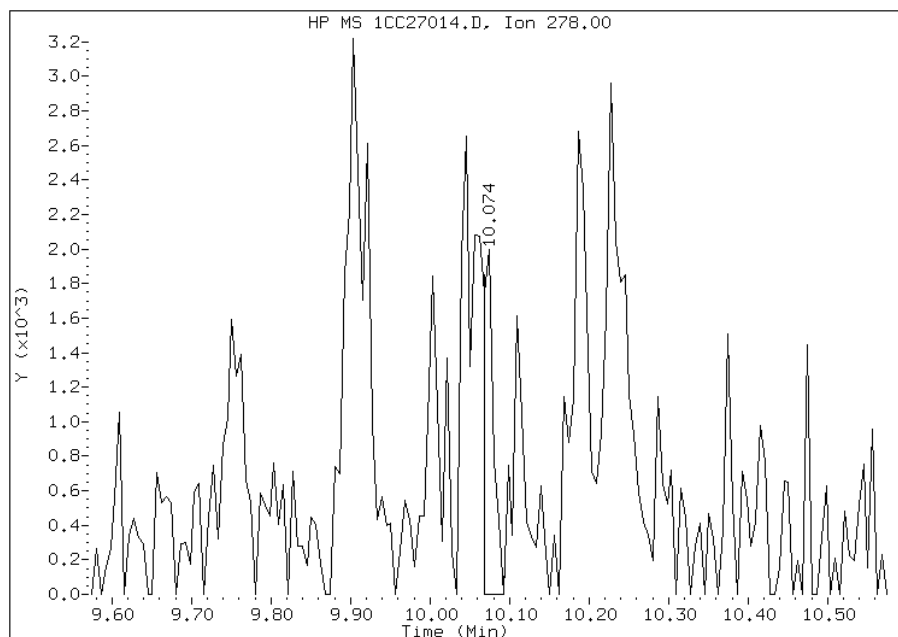
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 11:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC27014.D
Inj. Date and Time: 27-MAR-2013 14:11
Instrument ID: BSMC5973.i
Client ID: CV1240A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/01/2013

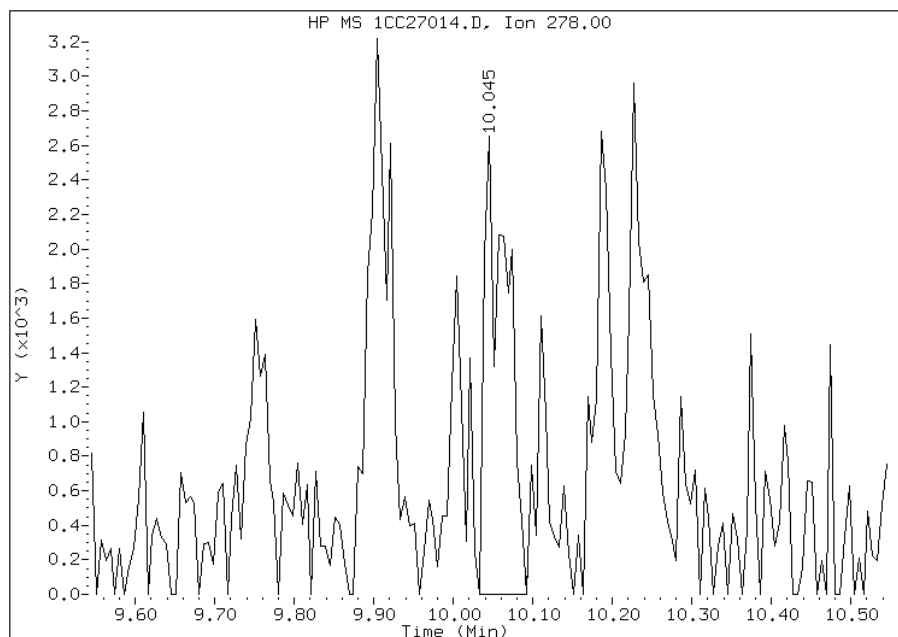
Processing Integration Results

RT: 10.07
Response: 1743
Amount: 0
Conc: 22



Manual Integration Results

RT: 10.05
Response: 5302
Amount: 0
Conc: 68



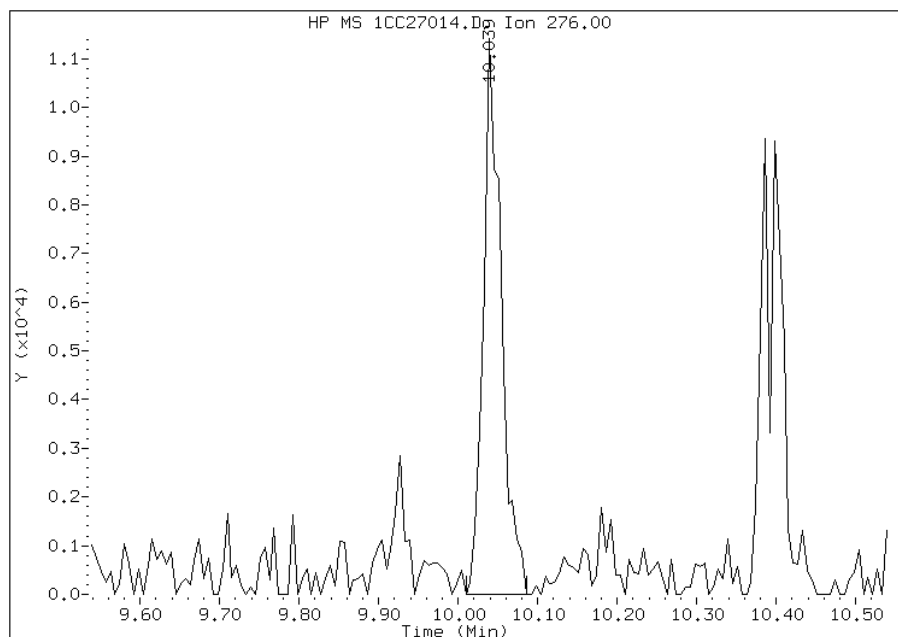
Manually Integrated By: cantins
Modification Date: 01-Apr-2013 11:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC27014.D
Inj. Date and Time: 27-MAR-2013 14:11
Instrument ID: BSMC5973.i
Client ID: CV1240A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/01/2013

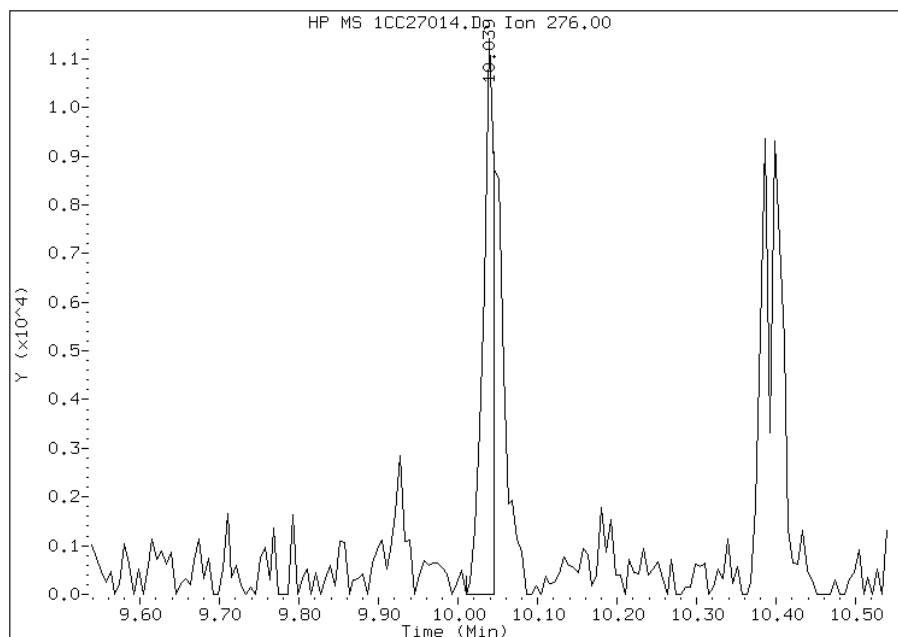
Processing Integration Results

RT: 10.04
Response: 17750
Amount: 1
Conc: 221



Manual Integration Results

RT: 10.04
Response: 11066
Amount: 0
Conc: 138



Manually Integrated By: cantins
Modification Date: 01-Apr-2013 11:13
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1 Analy Batch No.: 134776

SDG No.: 68088592-1

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

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

Calibration Files:

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

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
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.: 680-88592-1 Analy Batch No.: 134776

SDG No.: 68088592-1

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

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

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
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.: 680-88592-1 Analy Batch No.: 134776

SDG No.: 68088592-1

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

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

Calibration Files:

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

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-88592-1 Analy Batch No.: 134776

SDG No.: 68088592-1

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

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

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Benzo[a]pyrene	PRY	Ave	12036 2128065	55481 3380087	282594	622966	1363217	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119 1907725	48940 3187834	267436	582935	1327322	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	11879 1913283	50354 2995648	267252	576071	1220845	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13026 1999689	53913 3142464	291148	621425	1289503	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	5163 872937	23584 1512079	126358	272397	558161	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Laboratories

Semivolatiles 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\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					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)	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

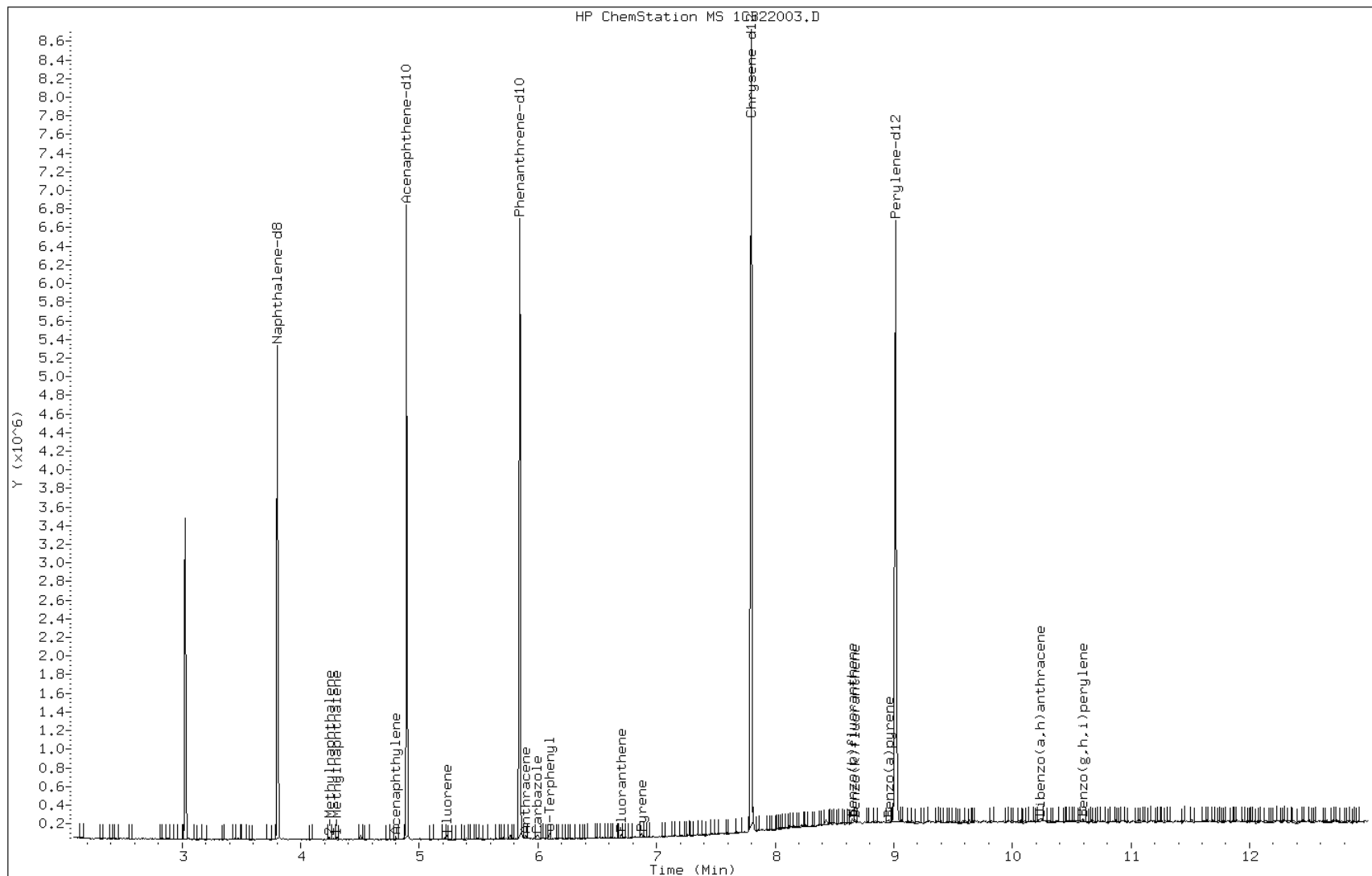
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC

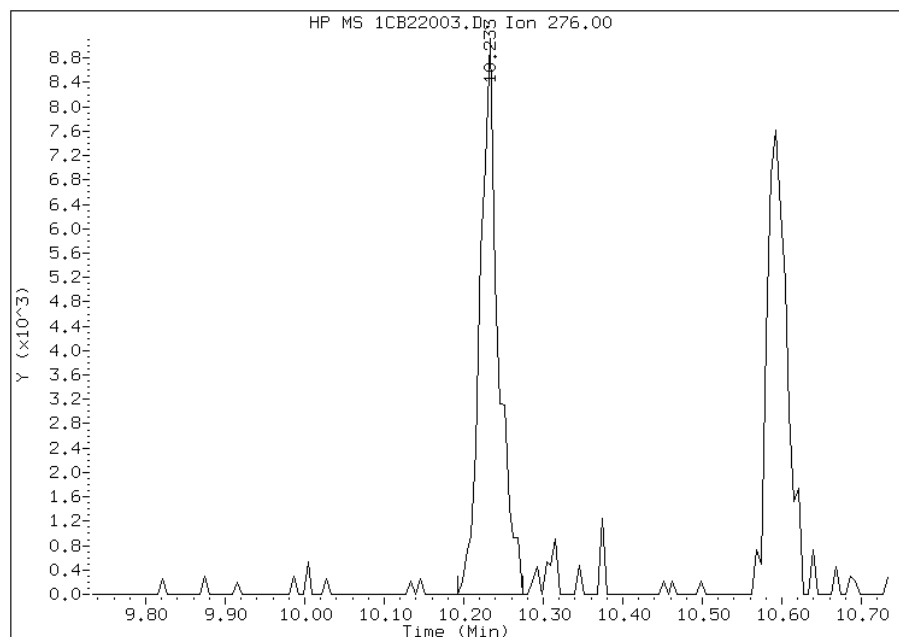


Manual Integration Report

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

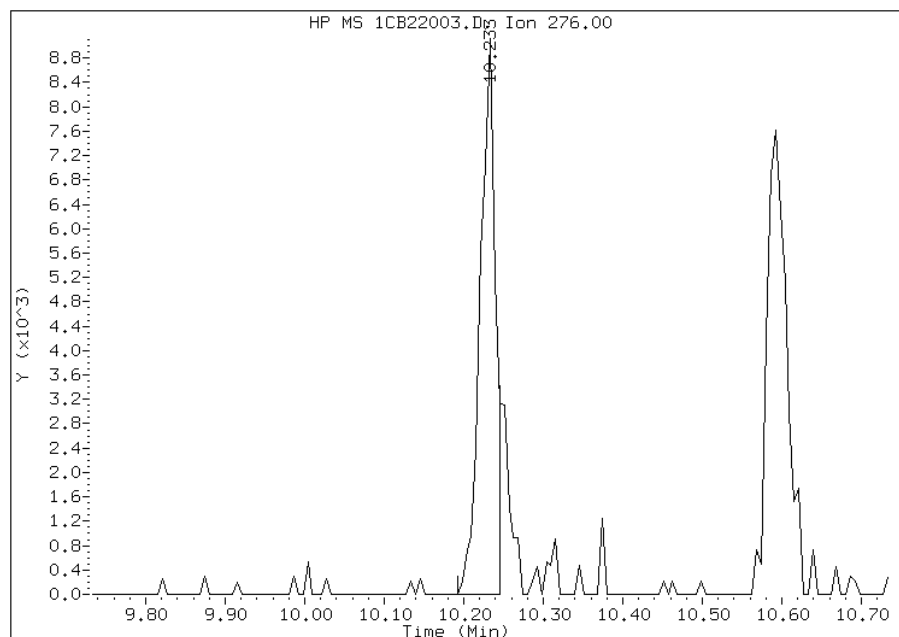
Processing Integration Results

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\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 11:57 Cal File: 1CB22003.D
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					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

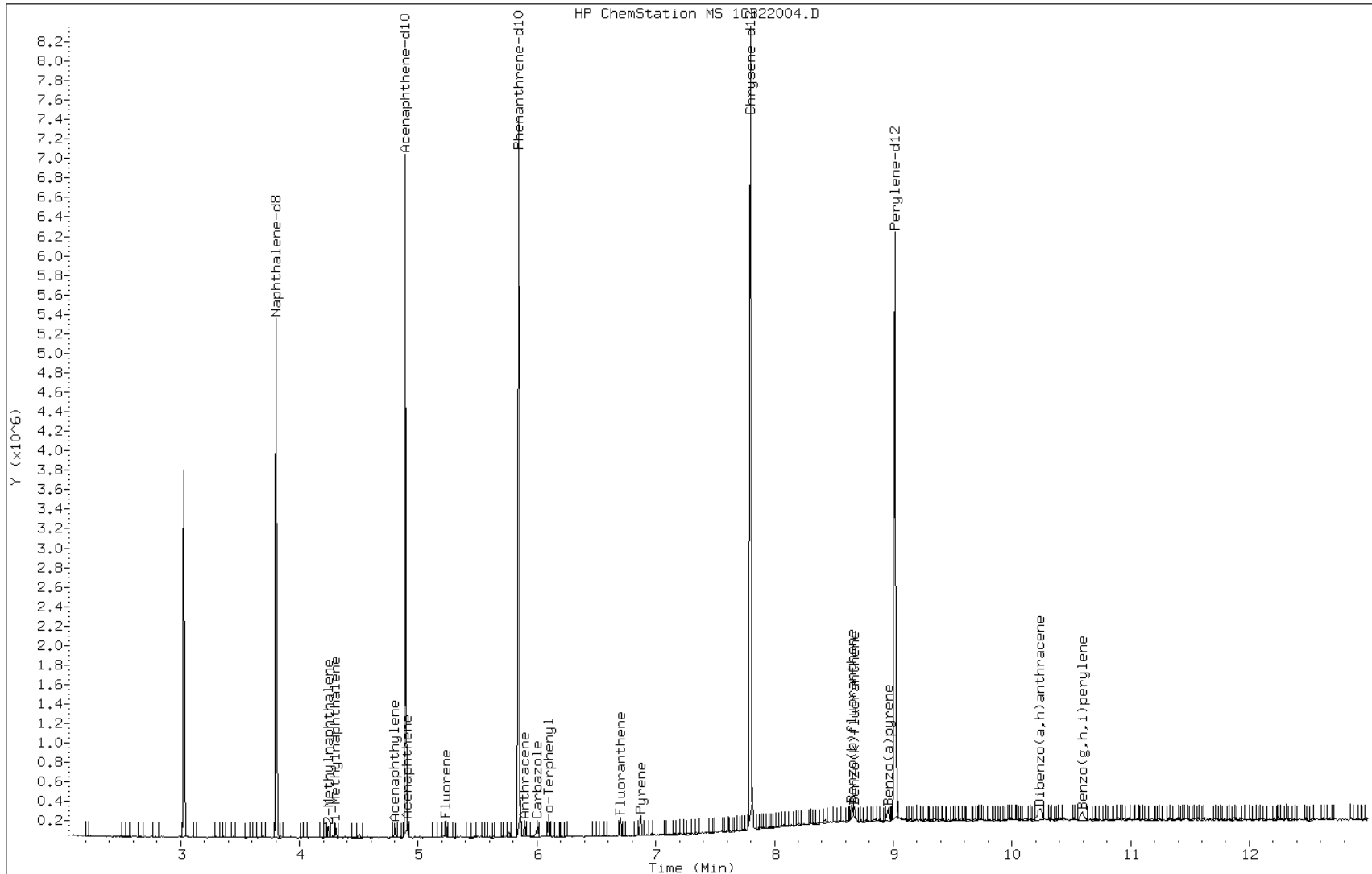
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC

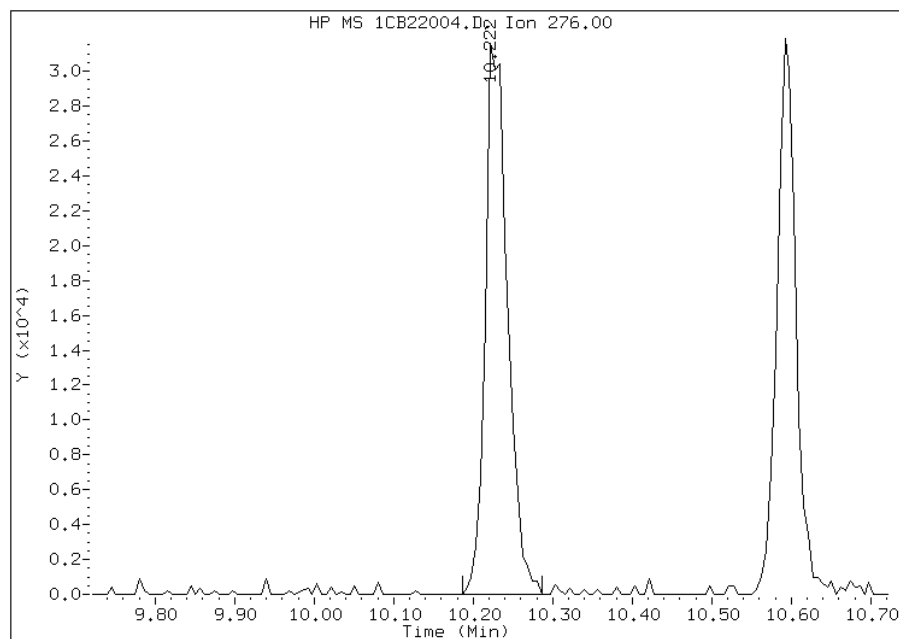


Manual Integration Report

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

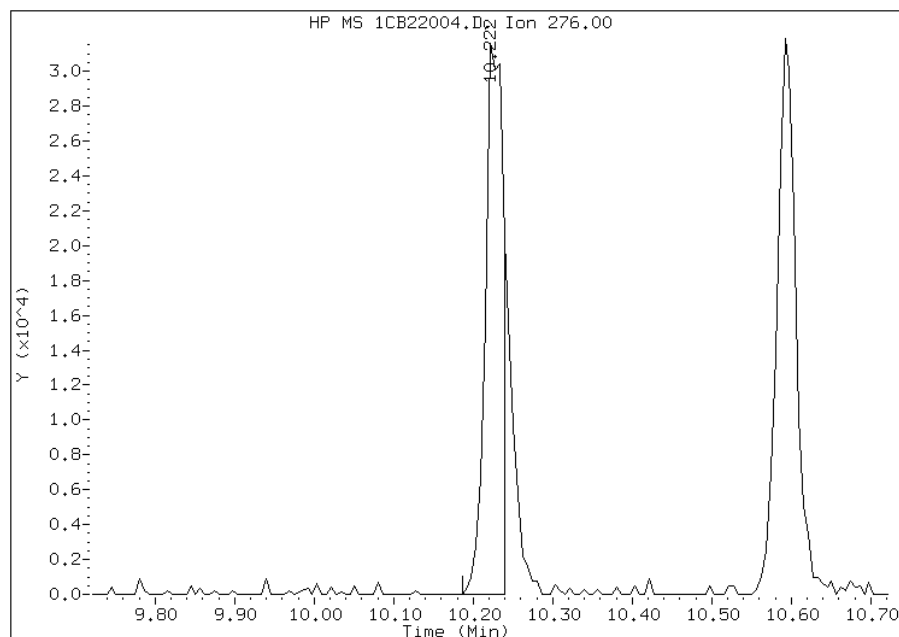
Processing Integration Results

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\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:16 Cal File: 1CB22004.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		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)	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

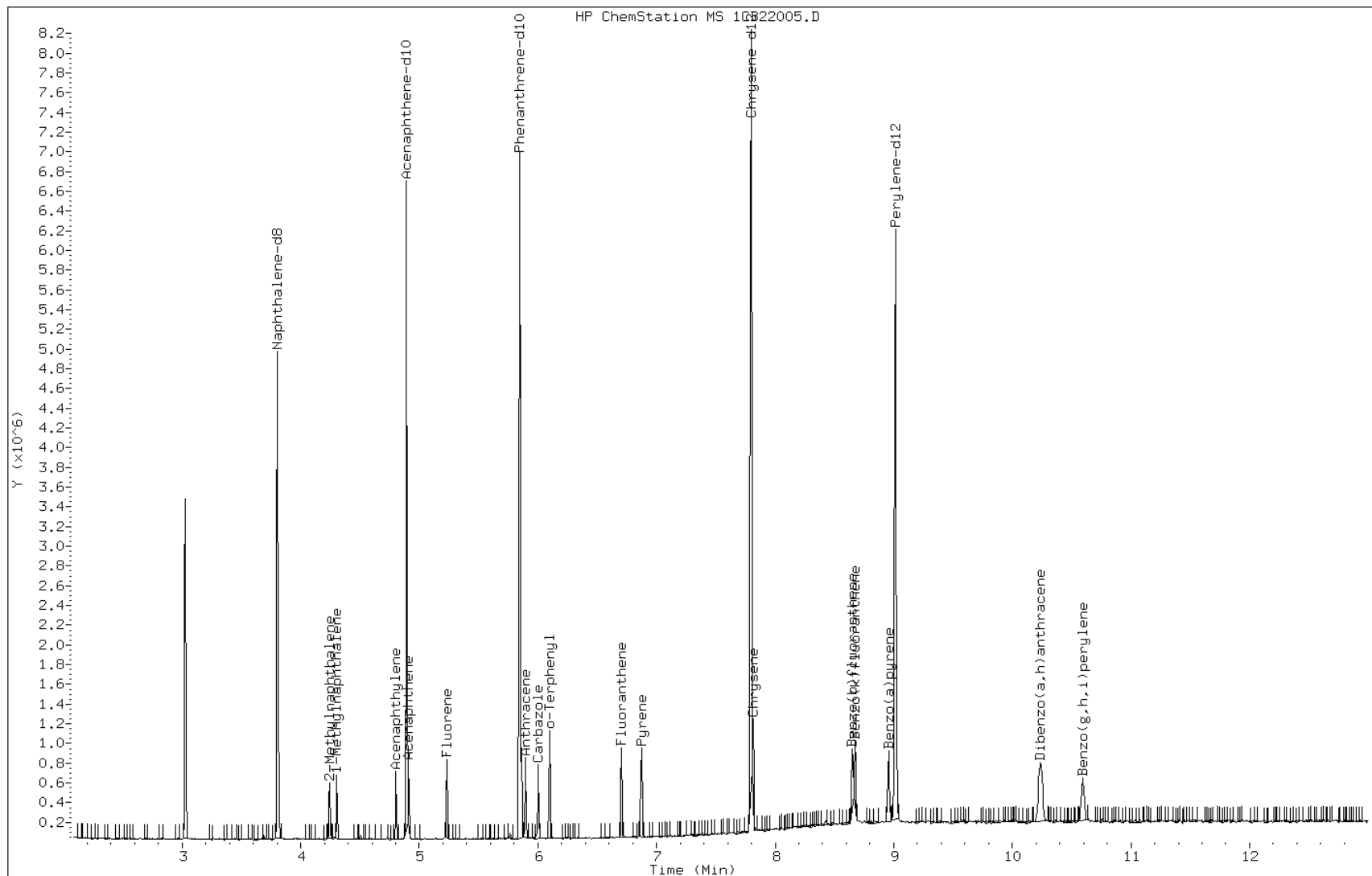
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC

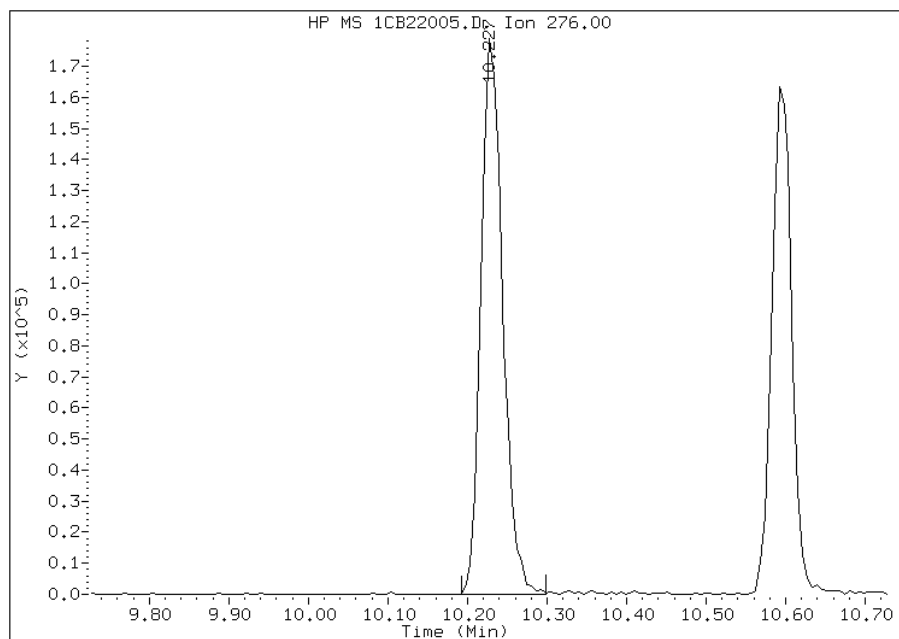


Manual Integration Report

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

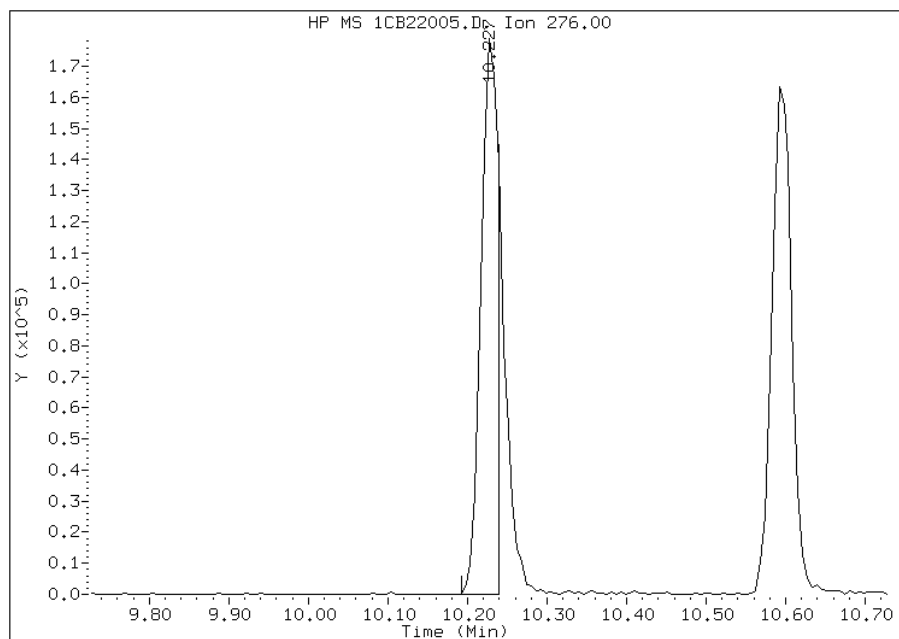
Processing Integration Results

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

Semivolatiles 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\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:34 Cal File: 1CB22005.D
 Als bottle: 6 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG						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

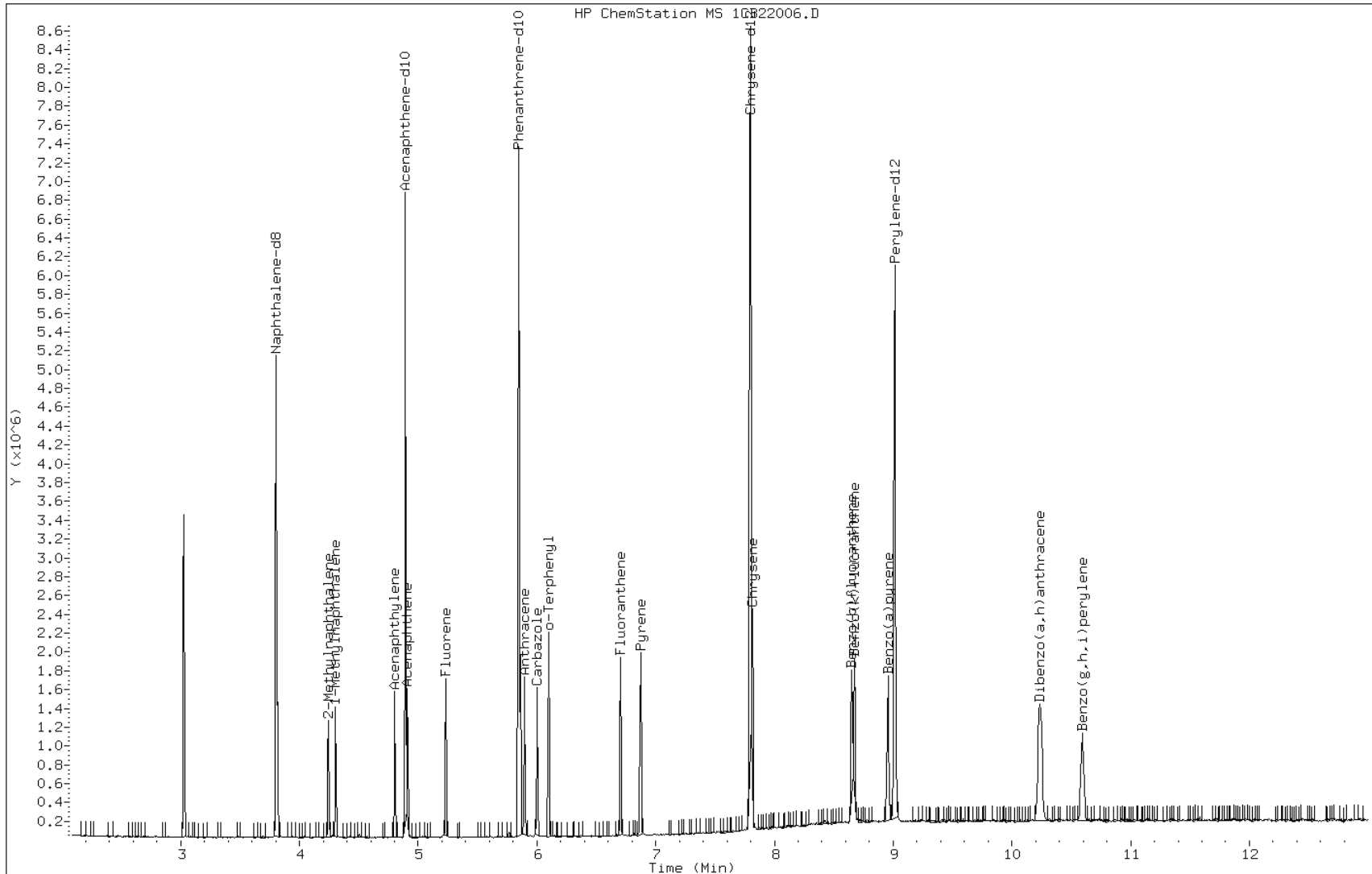
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC

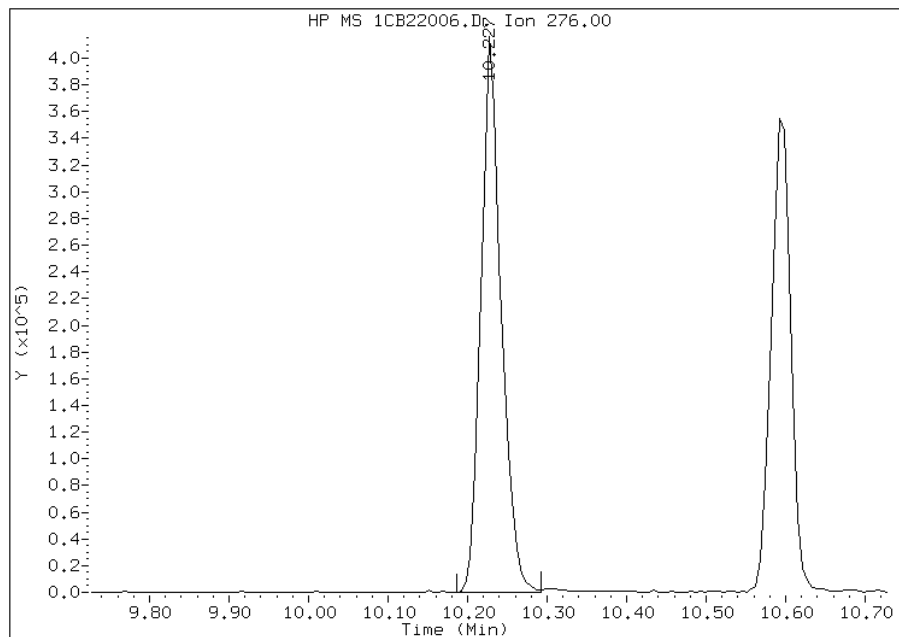


Manual Integration Report

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

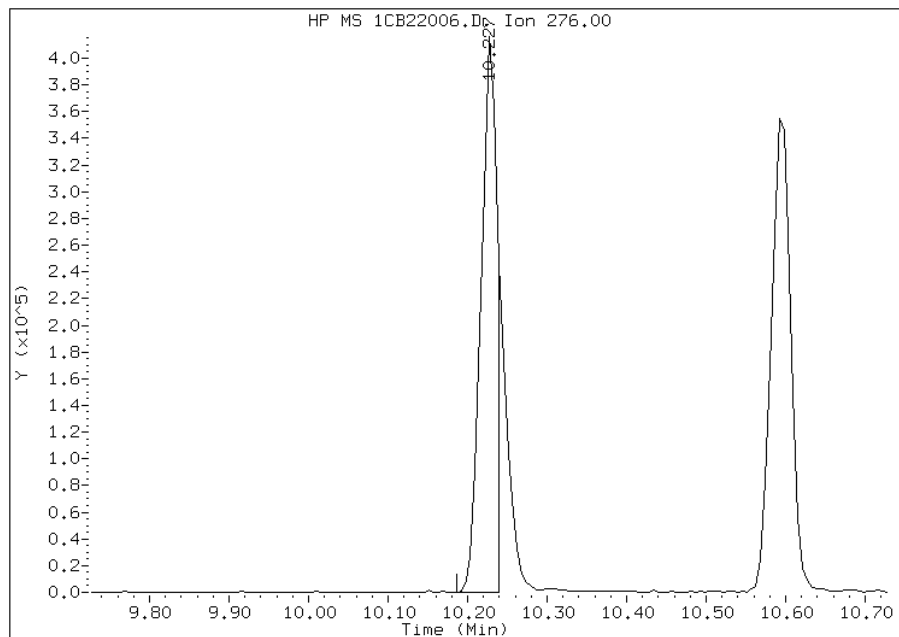
Processing Integration Results

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

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\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-chemsrv\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 12:53 Cal File: 1CB22006.D
 Als bottle: 7 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		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

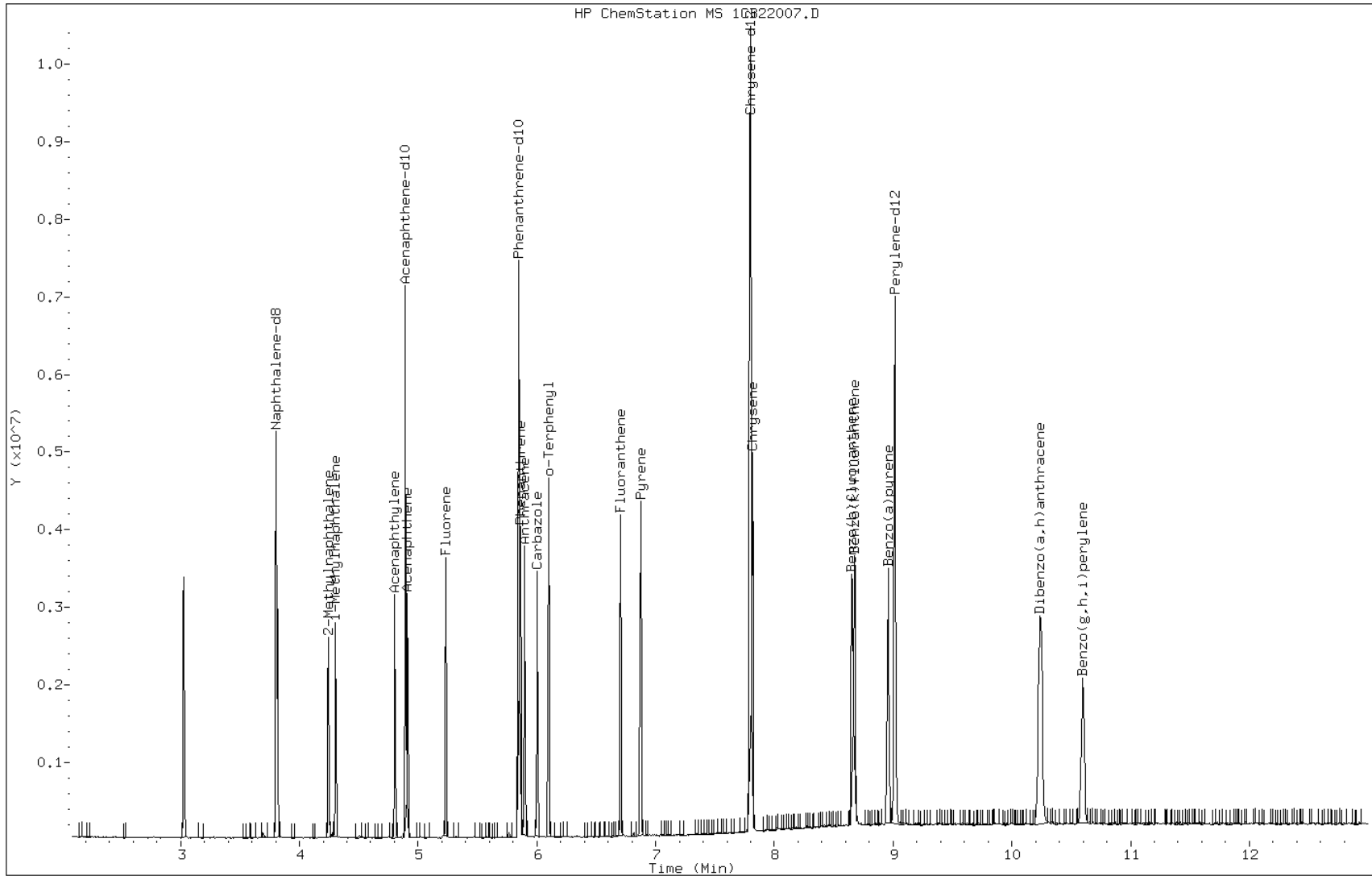
Date: 22-FEB-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1512372

Operator: SCC

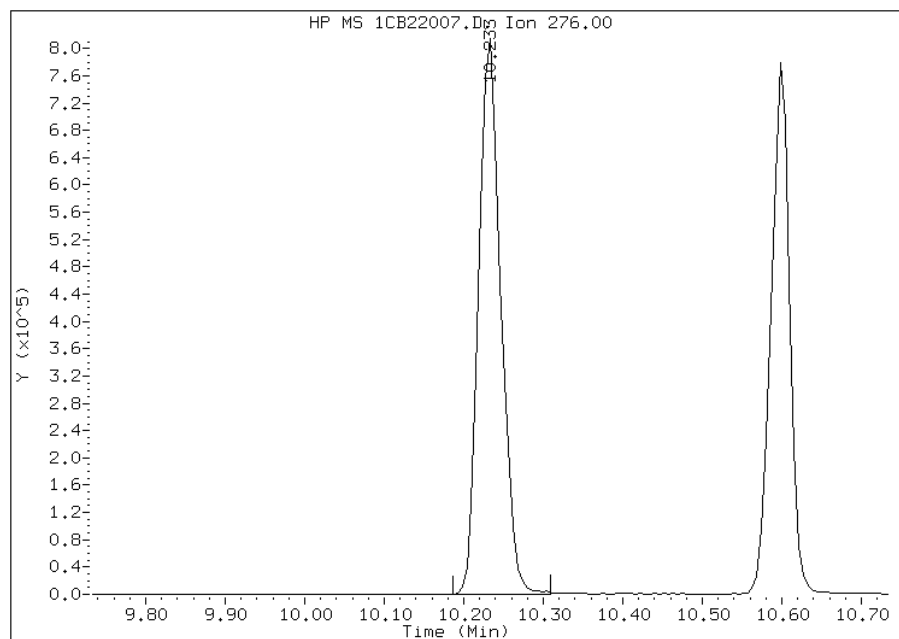


Manual Integration Report

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

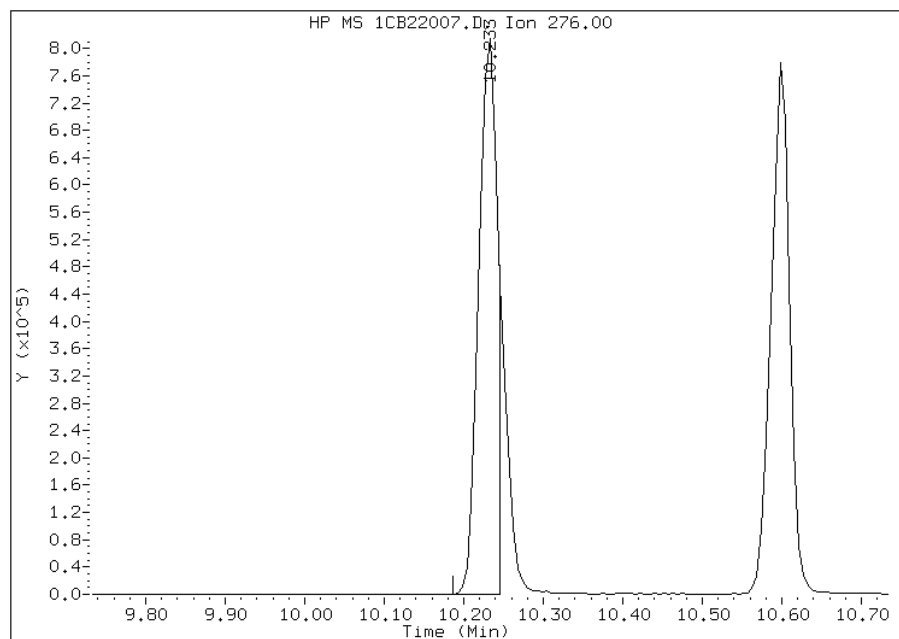
Processing Integration Results

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-chemsrv\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-chemsrv\chem\SM\BSMC5973.i\1C022213.b\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:11 Cal File: 1CB22007.D
 Als bottle: 8 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		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)	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

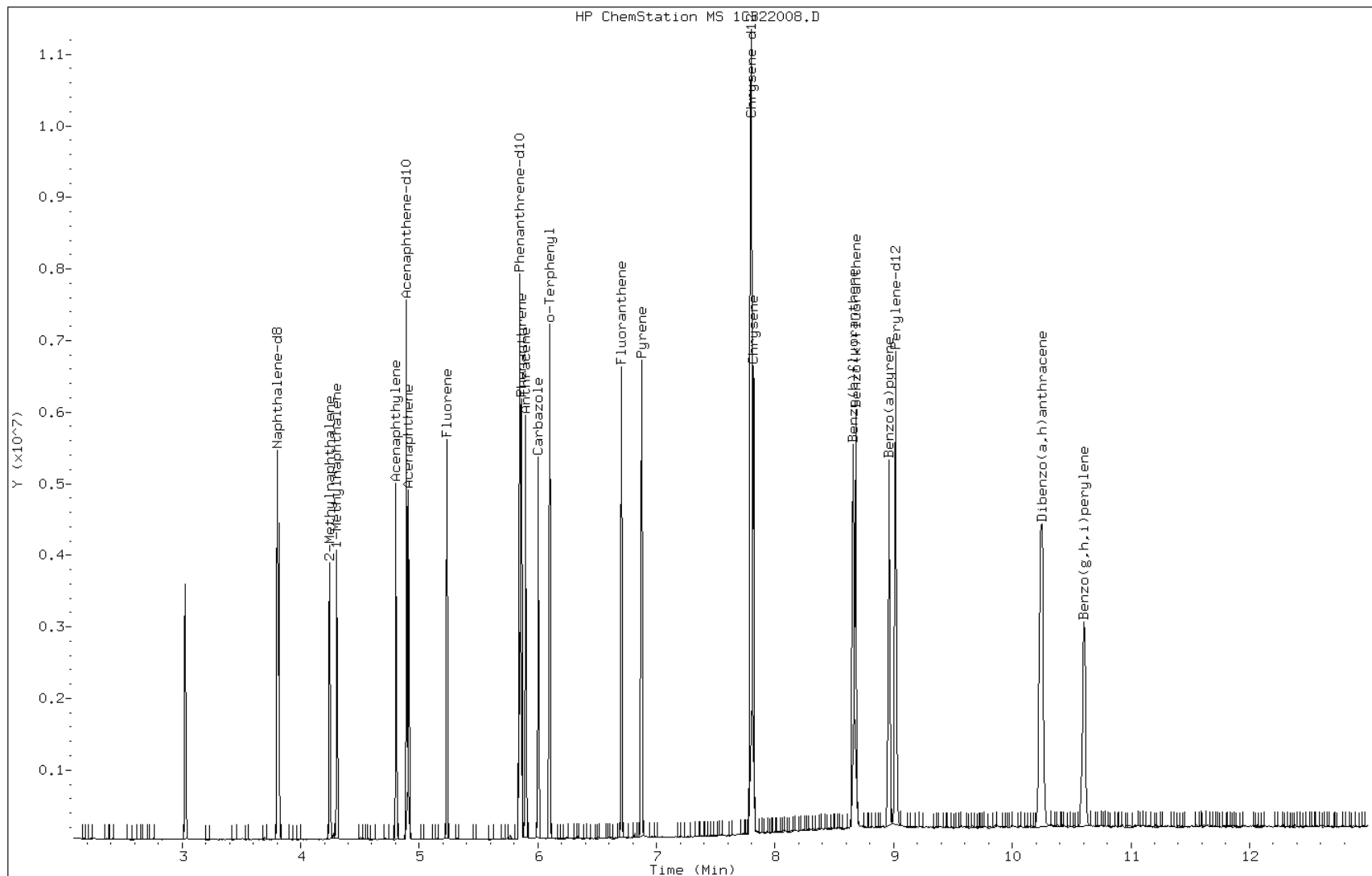
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC

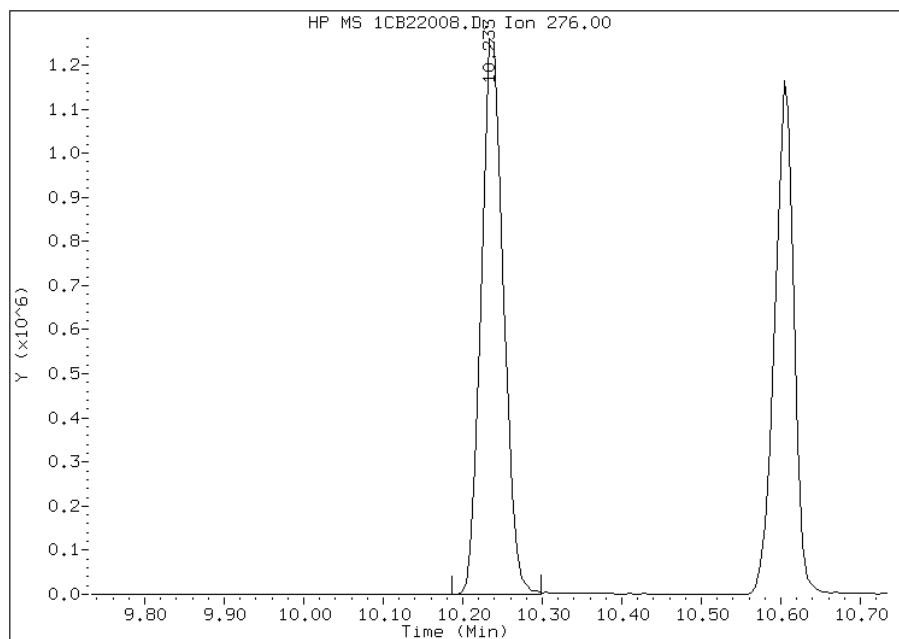


Manual Integration Report

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

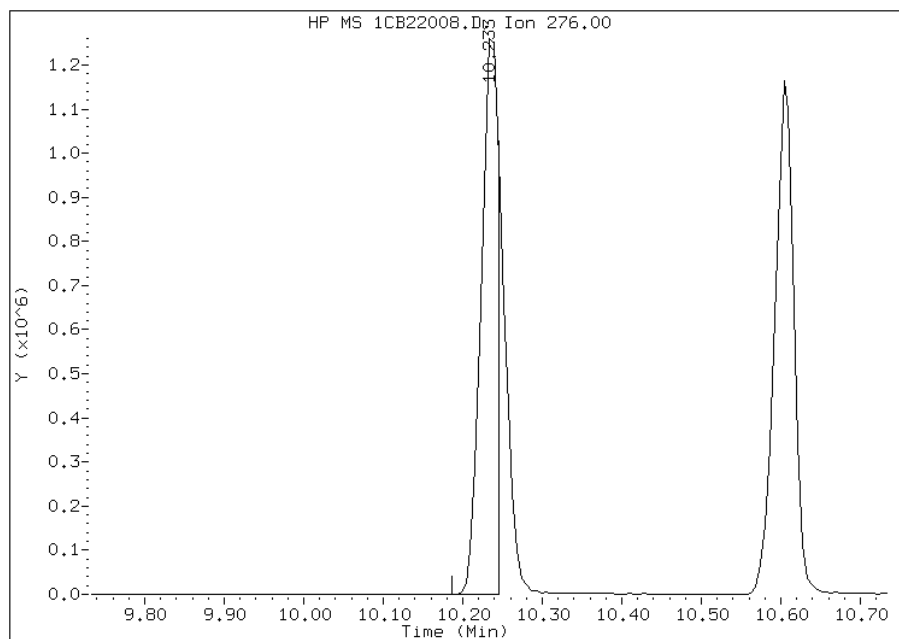
Processing Integration Results

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\a-bFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:29 Cal File: 1CB22008.D
 Als bottle: 9 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ug/ml)	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

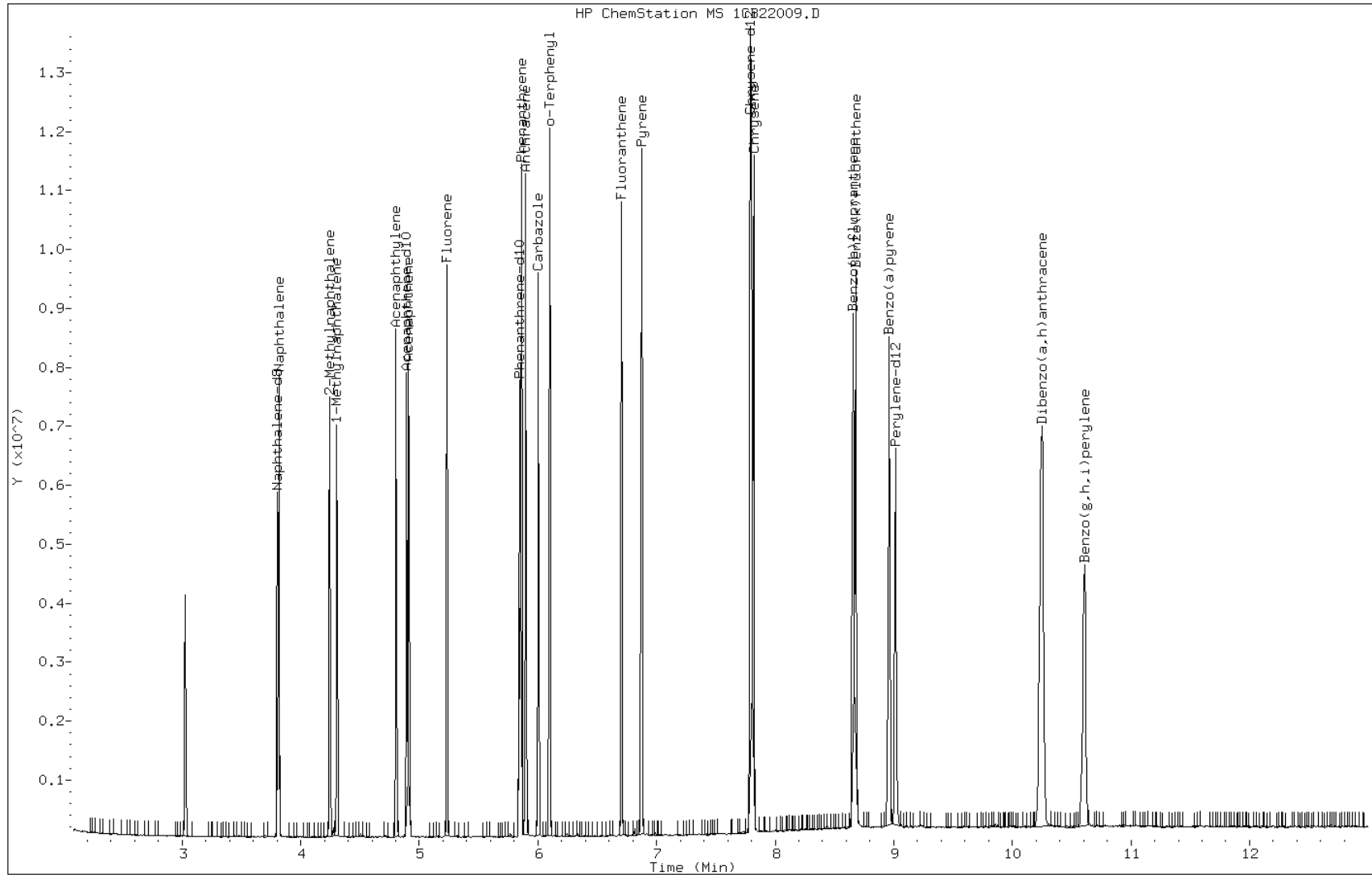
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC

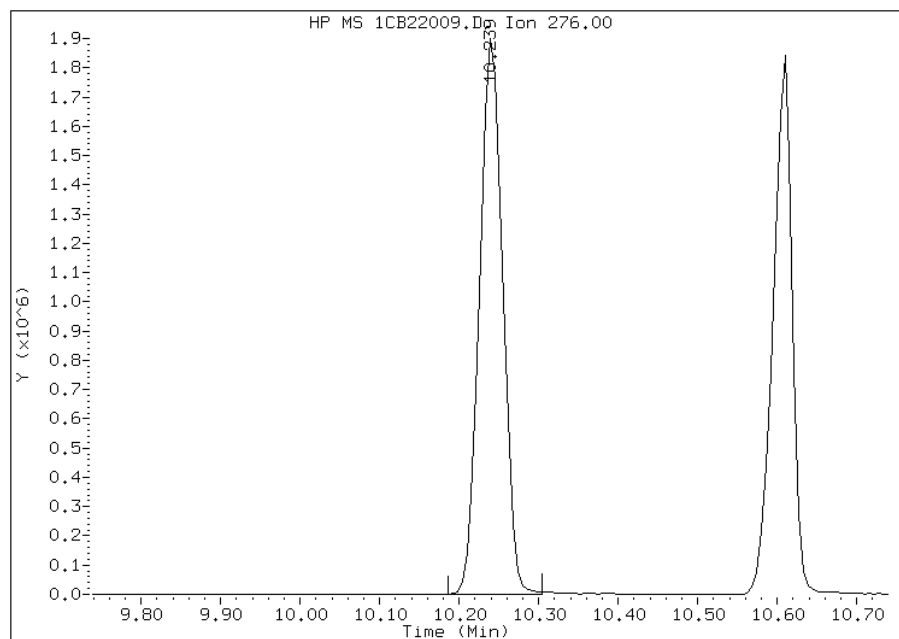


Manual Integration Report

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

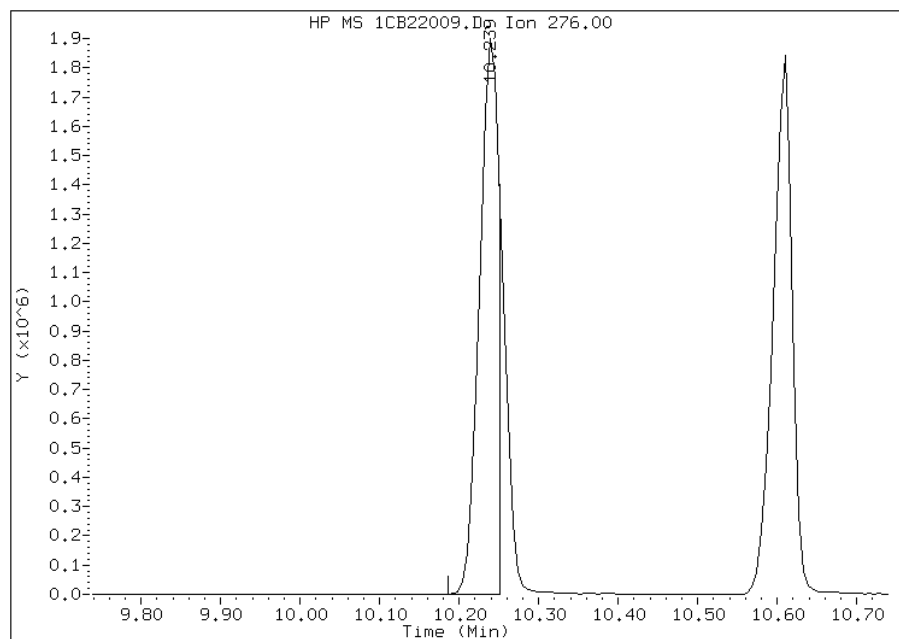
Processing Integration Results

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 VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Lab Sample ID: ICV 660-134776/10 Calibration Date: 02/22/2013 14:06
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48
 Lab File ID: 1CB22010.D Conc. Units: ug/Kg

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

TestAmerica Laboratories

Semivolatiles 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\A-BFASTPAHi-m.m
 Meth Date : 22-Feb-2013 14:18 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 10 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

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

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

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8			136	3.804	3.804	(1.000)	1383069	40.0000	
* 6 Acenaphthene-d10			164	4.892	4.892	(1.000)	1075067	40.0000	
* 10 Phenanthrene-d10			188	5.845	5.845	(1.000)	2141313	40.0000	
\$ 14 o-Terphenyl			230	6.098	6.098	(1.043)	528461	16.3458	16.3457
* 18 Chrysene-d12			240	7.798	7.798	(1.000)	2766374	40.0000	
* 23 Perylene-d12			264	9.015	9.016	(1.000)	3034368	40.0000	
2 Naphthalene			128	3.816	3.816	(1.003)	643385	17.8686	17.8685
3 2-Methylnaphthalene			142	4.245	4.245	(1.116)	426527	17.7587	17.7586
4 1-Methylnaphthalene			142	4.304	4.304	(1.131)	406896	18.6013	18.6013
5 Acenaphthylene			152	4.804	4.804	(0.982)	792099	18.2750	18.2749
7 Acenaphthene			154	4.910	4.910	(1.004)	511893	19.0010	19.0010
9 Fluorene			166	5.233	5.234	(1.070)	612561	17.9790	17.9790
11 Phenanthrene			178	5.863	5.863	(1.003)	1016506	16.4172	16.4171
12 Anthracene			178	5.898	5.898	(1.009)	1040221	17.1782	17.1781
13 Carbazole			167	6.004	6.004	(1.027)	936321	17.3944	17.3943
15 Fluoranthene			202	6.704	6.704	(1.147)	1196804	17.6502	17.6501
16 Pyrene			202	6.874	6.875	(0.882)	1218381	16.3888	16.3887

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		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

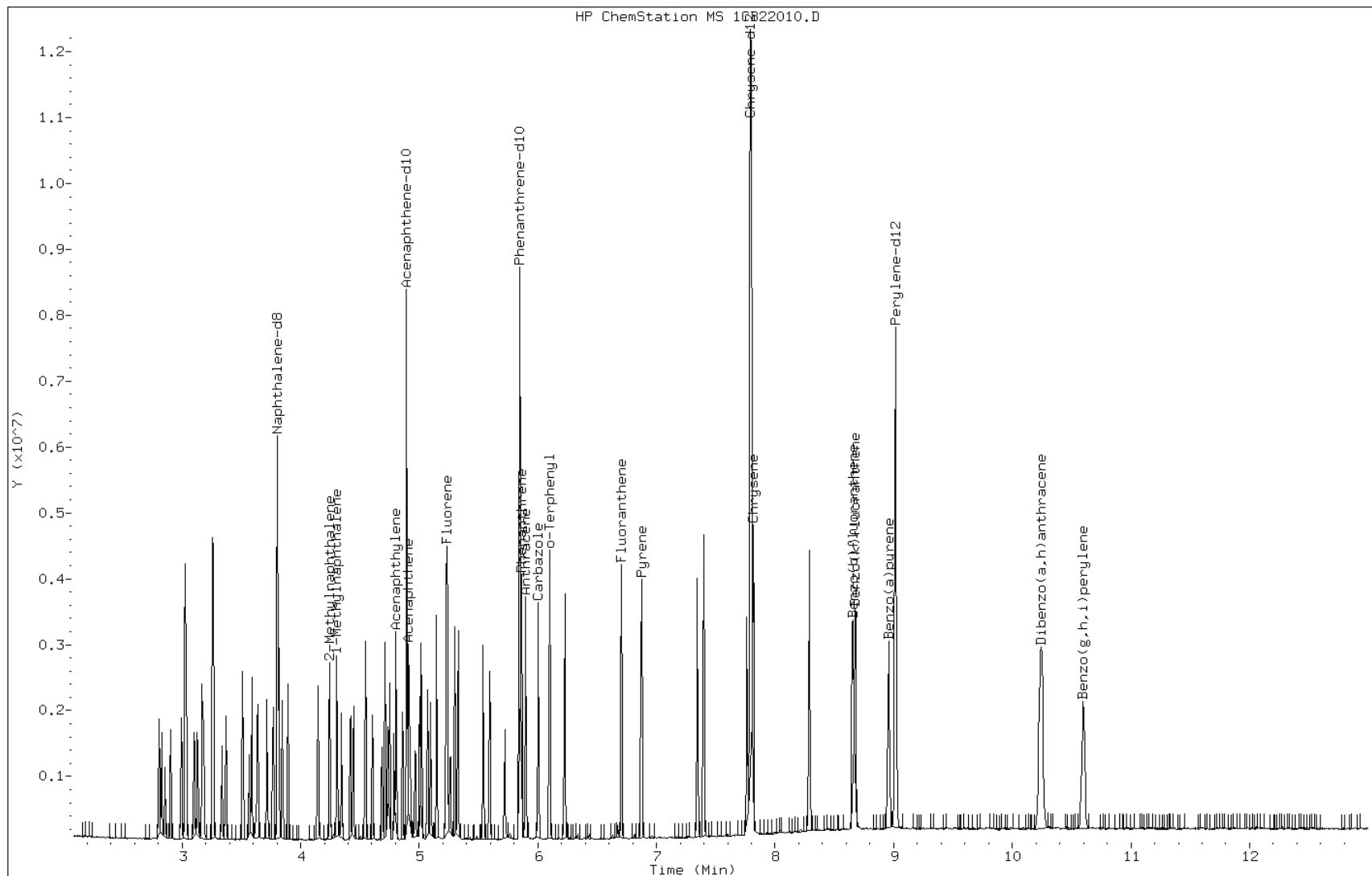
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

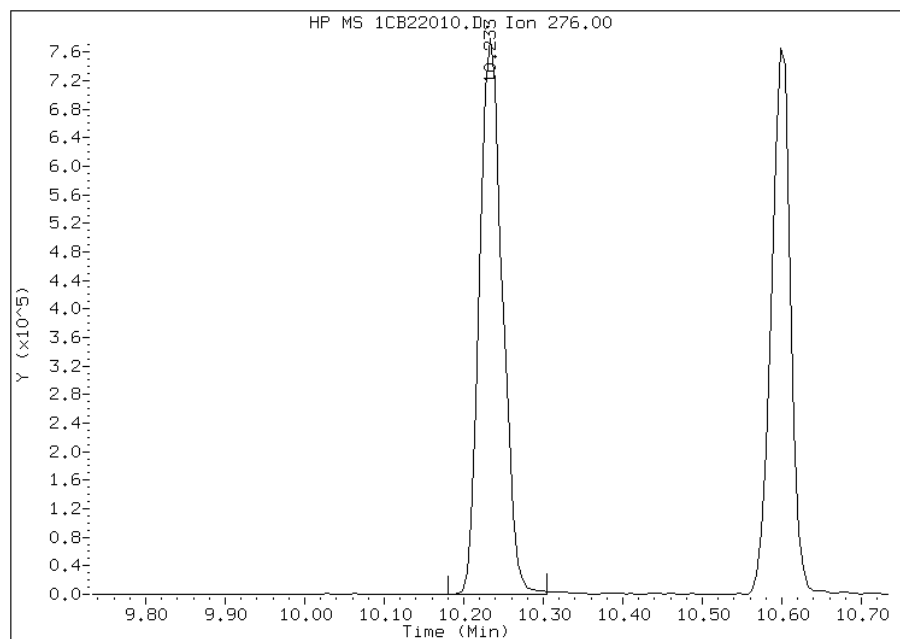


Manual Integration Report

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

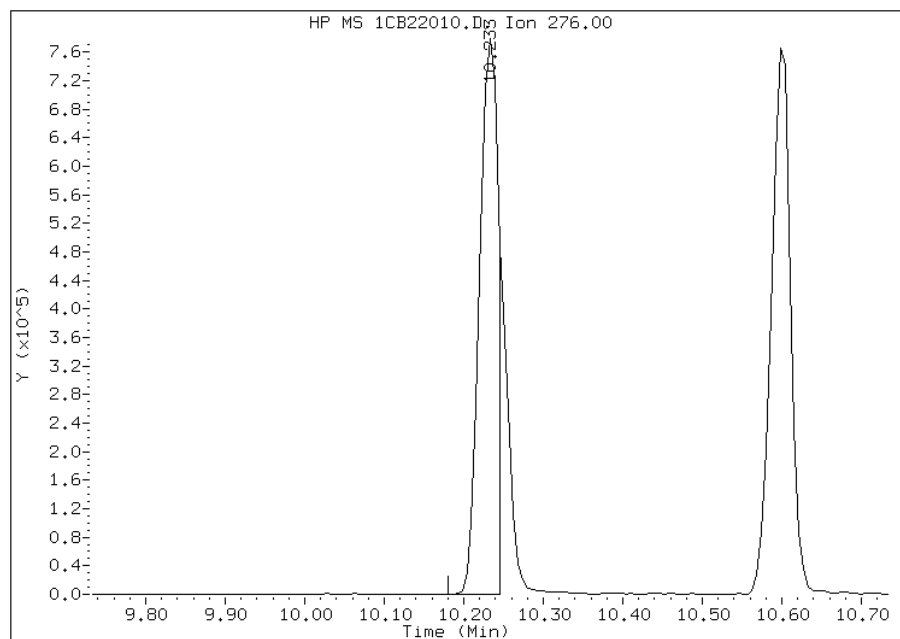
Processing Integration Results

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.: 680-88592-1
 SDG No.: 68088592-1
 Lab Sample ID: CCVIS 660-135830/3 Calibration Date: 03/27/2013 10:35
 Instrument ID: BSMC5973 Calib Start Date: 02/22/2013 11:57
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 02/22/2013 13:48
 Lab File ID: 1CC27003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.070	0.0000	20600	20000	2.8	20.0
2-Methylnaphthalene	Ave	0.6946	0.6931	0.0000	20000	20000	-0.2	20.0
1-Methylnaphthalene	Ave	0.6326	0.6567	0.0000	20800	20000	3.8	20.0
Acenaphthylene	Ave	1.613	1.678	0.0000	20800	20000	4.0	20.0
Acenaphthene	Ave	1.002	0.9708	0.0000	19400	20000	-3.1	20.0
Fluorene	Ave	1.268	1.250	0.0000	19700	20000	-1.4	20.0
Phenanthrene	Ave	1.157	1.115	0.0000	19300	20000	-3.6	20.0
Anthracene	Ave	1.131	1.111	0.0000	19600	20000	-1.8	20.0
Carbazole	Ave	1.006	1.004	0.0000	20000	20000	-0.2	20.0
Fluoranthene	Ave	1.267	1.264	0.0000	20000	20000	-0.2	20.0
Pyrene	Ave	1.075	1.116	0.0000	20800	20000	3.8	20.0
Benzo[a]anthracene	Ave	1.154	1.067	0.0000	18500	20000	-7.6	20.0
Chrysene	Ave	1.155	1.108	0.0000	19200	20000	-4.1	20.0
Benzo[b]fluoranthene	Ave	1.045	1.036	0.0000	19800	20000	-0.9	20.0
Benzo[k]fluoranthene	Ave	1.072	1.141	0.0000	21300	20000	6.4	20.0
Benzo[a]pyrene	Ave	1.015	1.040	0.0000	20500	20000	2.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	1.019	0.0000	21300	20000	6.7	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.9194	0.0000	19700	20000	-1.6	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9809	0.0000	19600	20000	-1.8	20.0
o-Terphenyl	Ave	0.6039	0.5973	0.0000	19800	20000	-1.1	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27003.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 27-MAR-2013 10:35
 Operator : SCC
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.727	3.727	(1.000)	740866	40.0000	(H)
* 6 Acenaphthene-d10	164	4.815	4.815	(1.000)	575327	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.762	(1.000)	1092531	40.0000	(H)
\$ 14 o-Terphenyl	230	6.015	6.015	(1.044)	326267	20.0000	19.7793(H)
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1389214	40.0000	(H)
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1427635	40.0000	(H)
2 Naphthalene	128	3.739	3.739	(1.003)	396388	20.0000	20.5515(H)
3 2-Methylnaphthalene	142	4.168	4.168	(1.118)	256741	20.0000	19.9555(H)
4 1-Methylnaphthalene	142	4.227	4.227	(1.134)	243257	20.0000	20.7601(H)
5 Acenaphthylene	152	4.727	4.727	(0.982)	482667	20.0000	20.8087
7 Acenaphthene	154	4.833	4.833	(1.004)	279269	20.0000	19.3705
9 Fluorene	166	5.157	5.157	(1.071)	359663	20.0000	19.7257
11 Phenanthrene	178	5.780	5.780	(1.003)	609016	20.0000	19.2780(H)
12 Anthracene	178	5.815	5.815	(1.009)	606997	20.0000	19.6464(H)
13 Carbazole	167	5.921	5.921	(1.028)	548301	20.0000	19.9640(H)
15 Fluoranthene	202	6.615	6.615	(1.148)	690237	20.0000	19.9512(H)
16 Pyrene	202	6.786	6.786	(0.881)	775208	20.0000	20.7646(H)
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	741118	20.0000	18.4838(H)
19 Chrysene	228	7.727	7.727	(1.003)	769393	20.0000	19.1746(H)
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	739836	20.0000	19.8297(H)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	814806	20.0000	21.2889(H)
22 Benzo(a)pyrene	252	8.833	8.833	(0.994)	742319	20.0000	20.4836(H)
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.131)	727254	20.0000	21.3325(MH)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.133)	656298	20.0000	19.6814(H)
26 Benzo(g,h,i)perylene	276	10.397	10.397	(1.170)	700171	20.0000	19.6333(H)

QC Flag Legend

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

Data File: 1CC27003.D

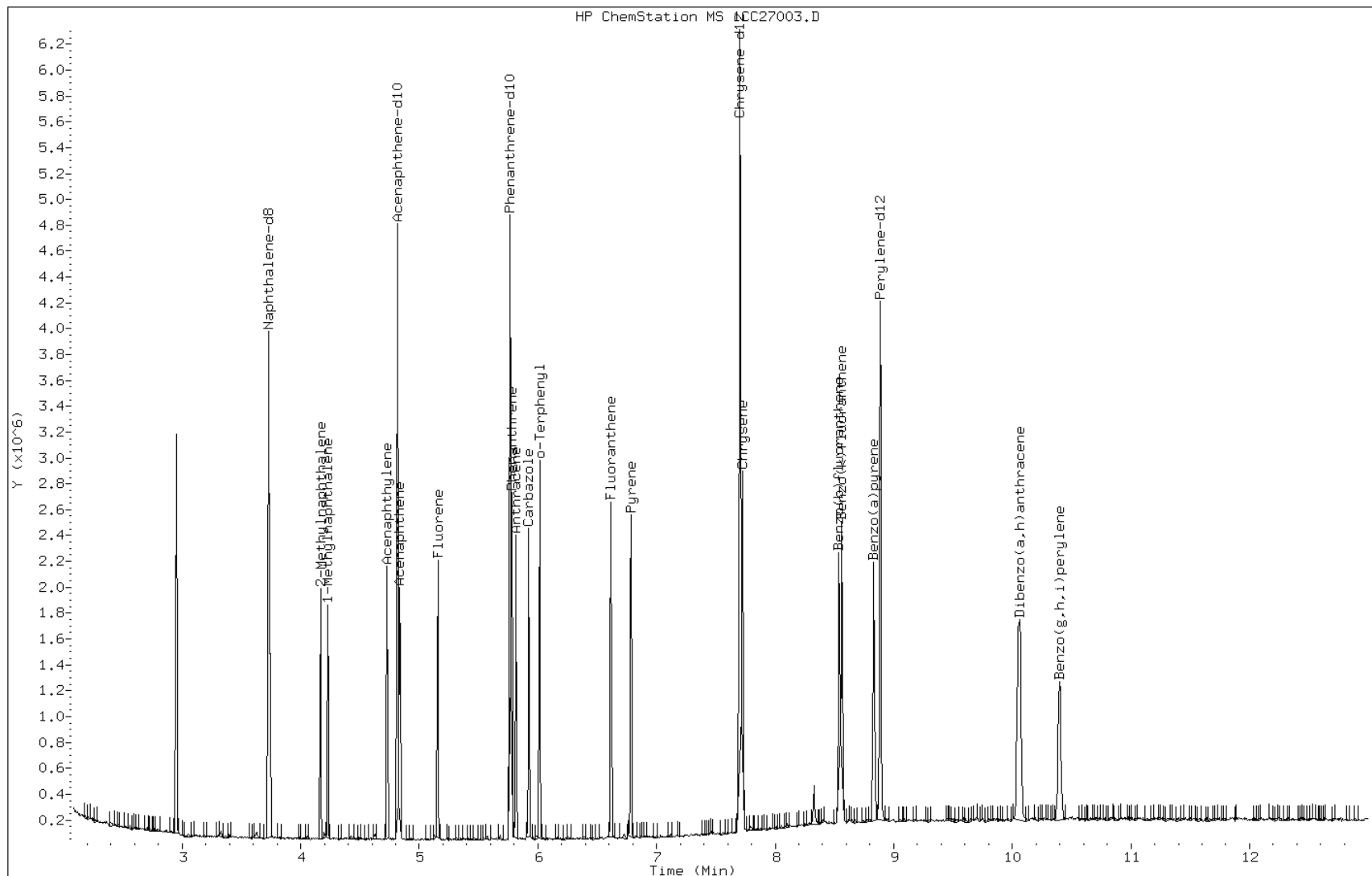
Date: 27-MAR-2013 10:35

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

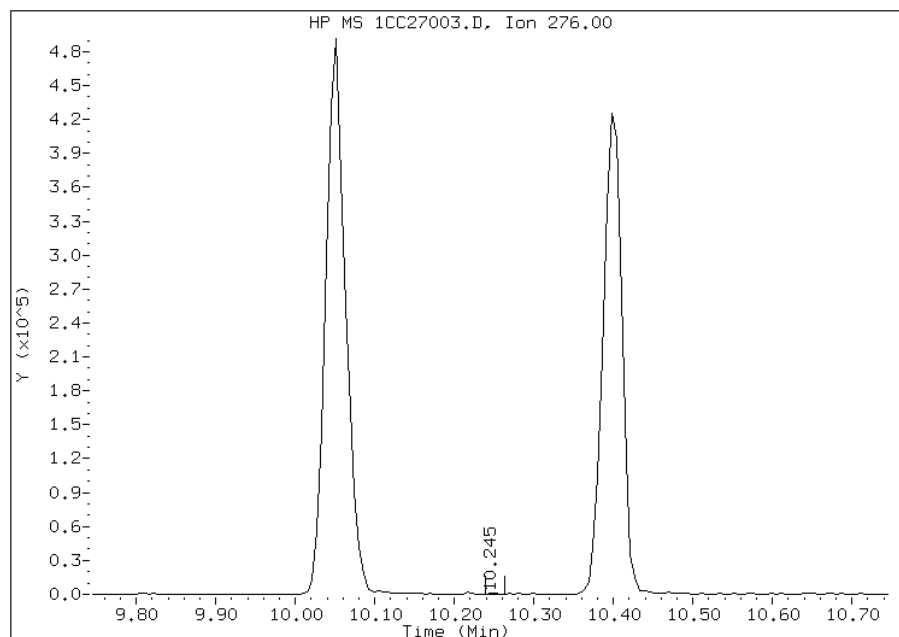


Manual Integration Report

Data File: 1CC27003.D
Inj. Date and Time: 27-MAR-2013 10:35
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/27/2013

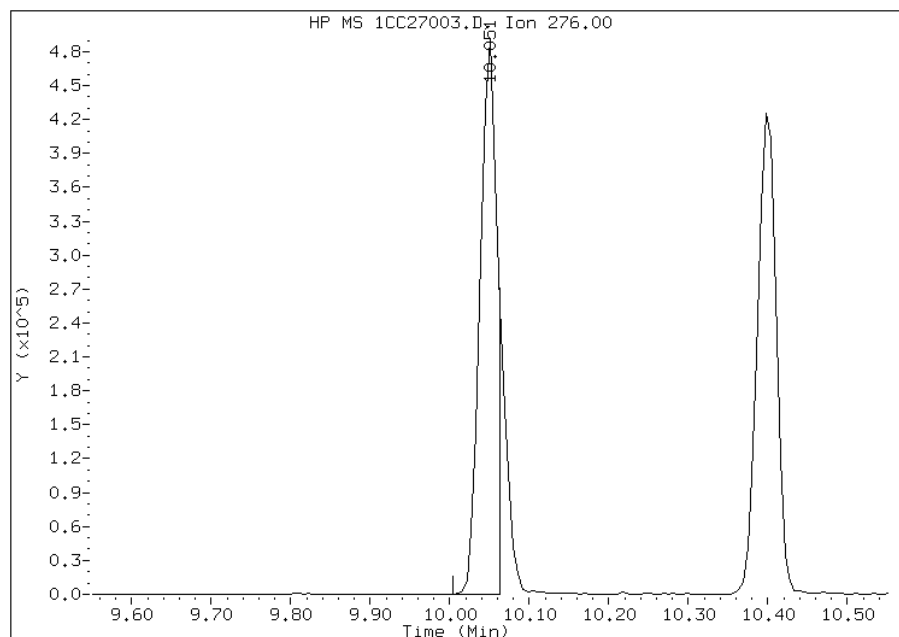
Processing Integration Results

RT: 10.25
Response: 881
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.05
Response: 727254
Amount: 21
Conc: 21



Manually Integrated By: cantins
Modification Date: 27-Mar-2013 10:50
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Lab Sample ID: CCVIS 660-135902/3 Calibration Date: 03/28/2013 11:59
 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: 1CC28003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.043	0.0000	20000	20000	0.2	20.0
2-Methylnaphthalene	Ave	0.6946	0.6791	0.0000	19600	20000	-2.2	20.0
1-Methylnaphthalene	Ave	0.6326	0.6718	0.0000	21200	20000	6.2	20.0
Acenaphthylene	Ave	1.613	1.586	0.0000	19700	20000	-1.7	20.0
Acenaphthene	Ave	1.002	0.9488	0.0000	18900	20000	-5.3	20.0
Fluorene	Ave	1.268	1.258	0.0000	19900	20000	-0.7	20.0
Phenanthrene	Ave	1.157	1.102	0.0000	19100	20000	-4.7	20.0
Anthracene	Ave	1.131	1.116	0.0000	19700	20000	-1.3	20.0
Carbazole	Ave	1.006	0.9778	0.0000	19400	20000	-2.8	20.0
Fluoranthene	Ave	1.267	1.229	0.0000	19400	20000	-3.0	20.0
Pyrene	Ave	1.075	1.121	0.0000	20900	20000	4.3	20.0
Benzo[a]anthracene	Ave	1.154	1.025	0.0000	17700	20000	-11.3	20.0
Chrysene	Ave	1.155	1.082	0.0000	18700	20000	-6.3	20.0
Benzo[b]fluoranthene	Ave	1.045	1.064	0.0000	20400	20000	1.8	20.0
Benzo[k]fluoranthene	Ave	1.072	1.088	0.0000	20300	20000	1.5	20.0
Benzo[a]pyrene	Ave	1.015	1.025	0.0000	20200	20000	1.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.9407	0.0000	19700	20000	-1.5	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8825	0.0000	18900	20000	-5.5	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9391	0.0000	18800	20000	-6.0	20.0
o-Terphenyl	Ave	0.6039	0.5809	0.0000	19200	20000	-3.8	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28003.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 28-MAR-2013 11:59
 Operator : SCC
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.722	3.722	(1.000)	797659	40.0000	(H)
* 6 Acenaphthene-d10	164	4.810	4.810	(1.000)	631634	40.0000	
* 10 Phenanthrene-d10	188	5.763	5.763	(1.000)	1190245	40.0000	(H)
\$ 14 o-Terphenyl	230	6.010	6.010	(1.043)	345706	20.0000	19.2372(H)
* 18 Chrysene-d12	240	7.704	7.704	(1.000)	1432718	40.0000	(H)
* 23 Perylene-d12	264	8.886	8.886	(1.000)	1426297	40.0000	(H)
2 Naphthalene	128	3.733	3.733	(1.003)	416161	20.0000	20.0404(H)
3 2-Methylnaphthalene	142	4.163	4.163	(1.119)	270837	20.0000	19.5523(H)
4 1-Methylnaphthalene	142	4.222	4.222	(1.134)	267925	20.0000	21.2373(H)
5 Acenaphthylene	152	4.722	4.722	(0.982)	500869	20.0000	19.6685
7 Acenaphthene	154	4.833	4.833	(1.005)	299637	20.0000	18.9305
9 Fluorene	166	5.151	5.151	(1.071)	397422	20.0000	19.8535
11 Phenanthrene	178	5.774	5.774	(1.002)	656012	20.0000	19.0609(H)
12 Anthracene	178	5.810	5.810	(1.008)	664445	20.0000	19.7403(H)
13 Carbazole	167	5.921	5.921	(1.028)	581925	20.0000	19.4488(H)
15 Fluoranthene	202	6.616	6.616	(1.148)	731155	20.0000	19.3989(H)
16 Pyrene	202	6.780	6.780	(0.880)	803113	20.0000	20.8588(H)
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	733974	20.0000	17.7498(H)
19 Chrysene	228	7.721	7.721	(1.002)	775164	20.0000	18.7318(H)
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	758720	20.0000	20.3549(H)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	775934	20.0000	20.2923(H)
22 Benzo(a)pyrene	252	8.827	8.827	(0.993)	731036	20.0000	20.1911(H)
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.045	(1.130)	670883	20.0000	19.6974(MH)
25 Dibenzo(a,h)anthracene	278	10.062	10.062	(1.132)	629352	20.0000	18.8910(H)
26 Benzo(g,h,i)perylene	276	10.398	10.398	(1.170)	669710	20.0000	18.7968(H)

QC Flag Legend

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

Data File: 1CC28003.D

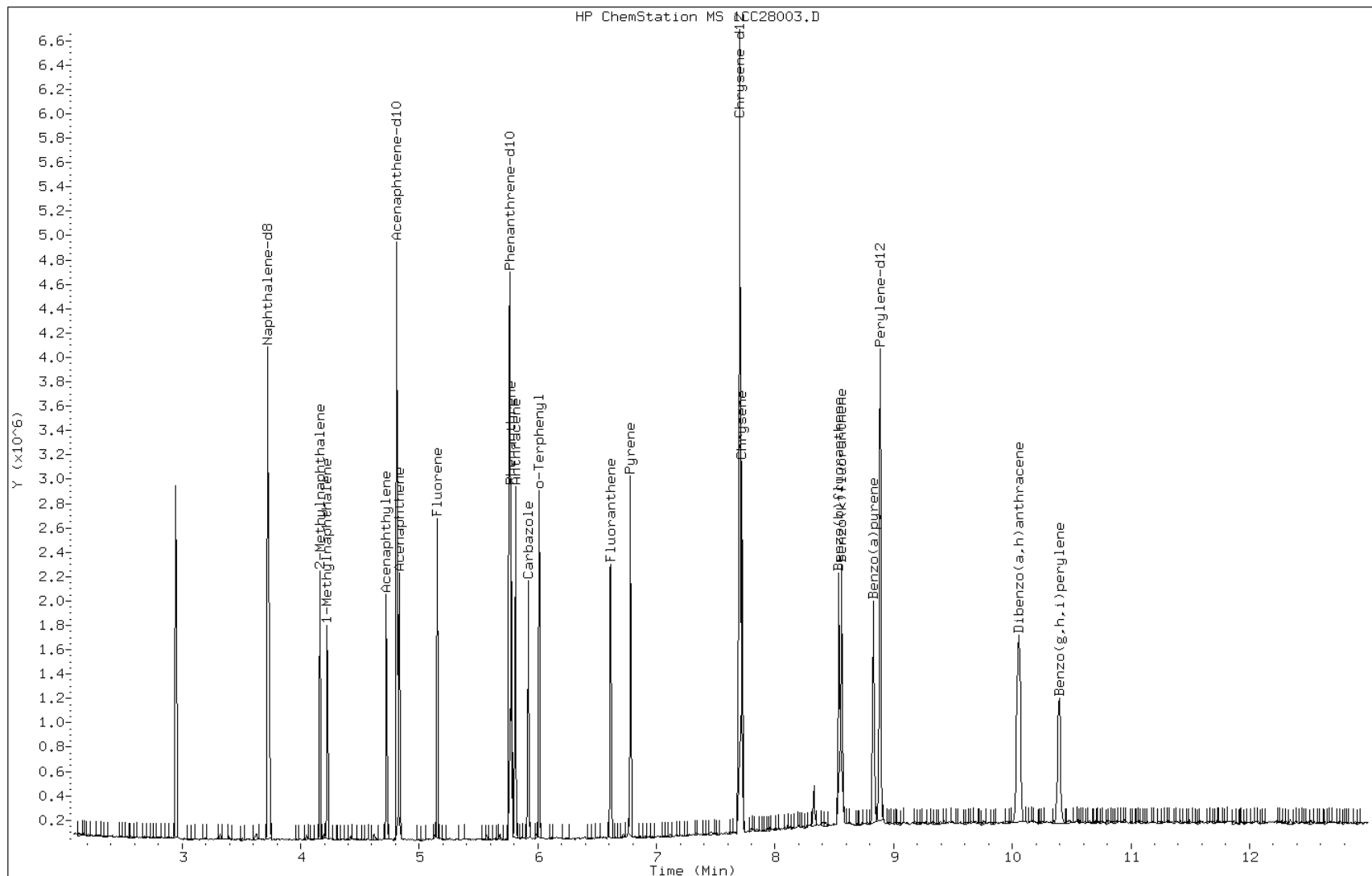
Date: 28-MAR-2013 11:59

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

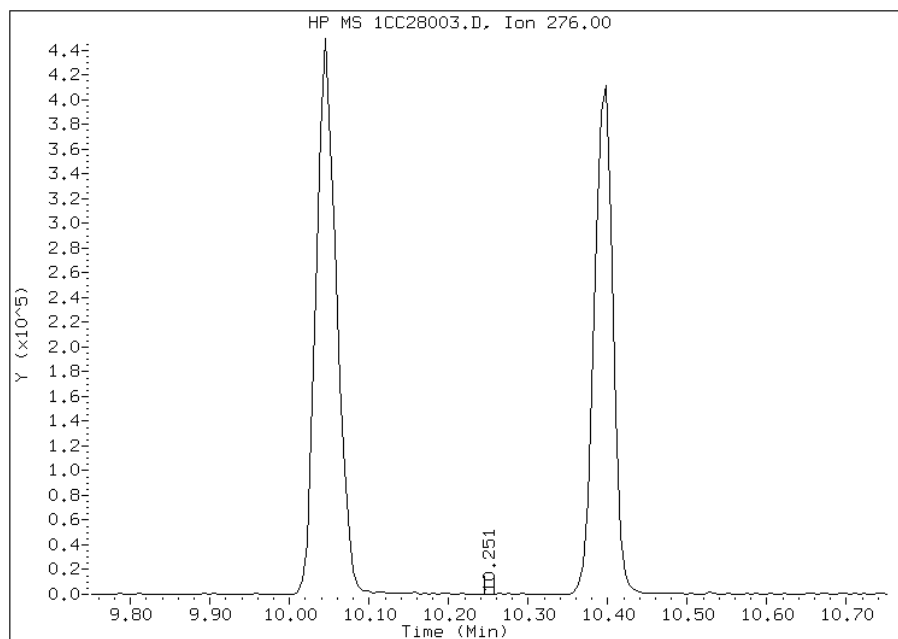


Manual Integration Report

Data File: 1CC28003.D
Inj. Date and Time: 28-MAR-2013 11:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

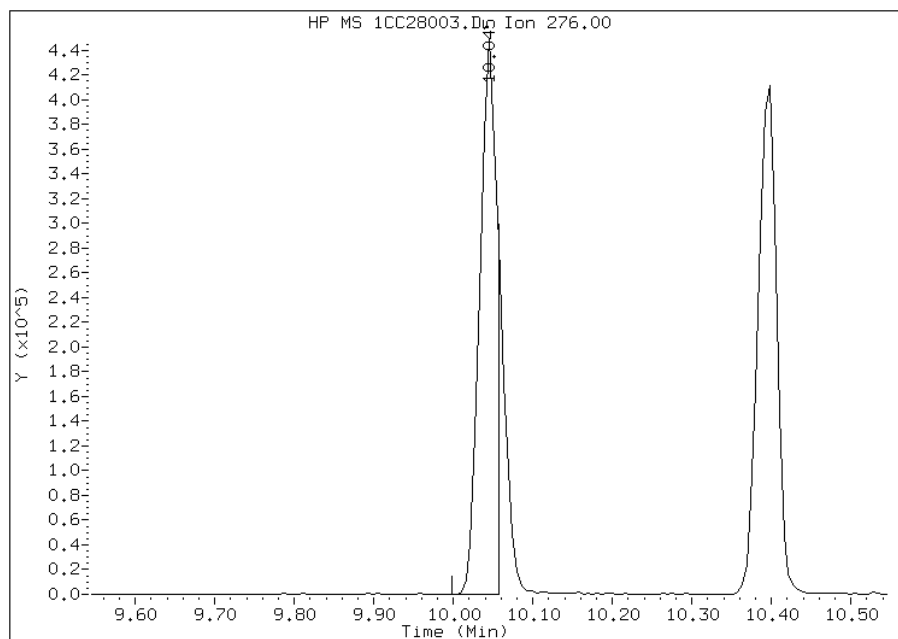
Processing Integration Results

RT: 10.25
Response: 122
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.05
Response: 670883
Amount: 20
Conc: 20



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 12:17
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 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\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: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	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

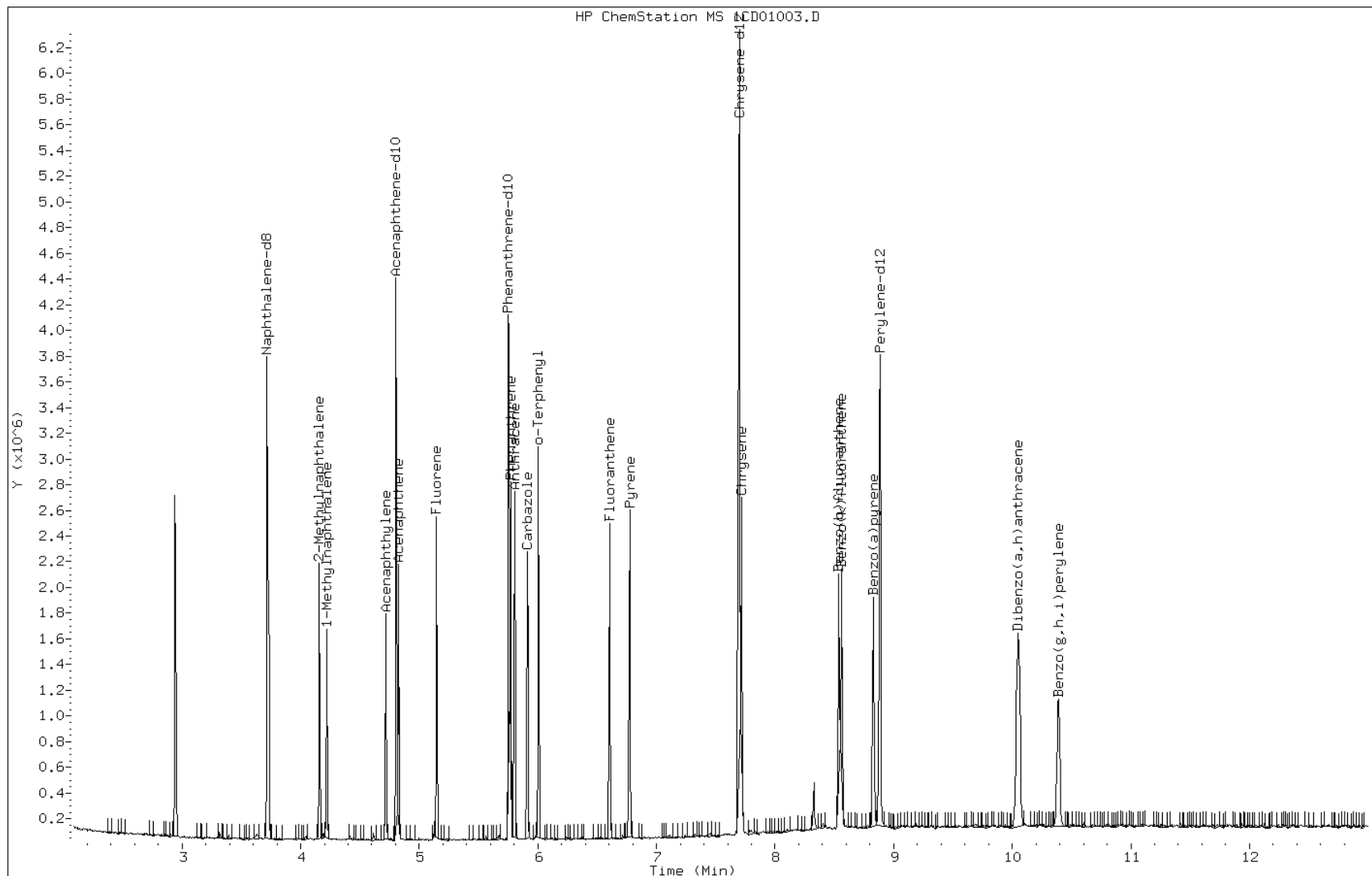
Date: 01-APR-2013 11:31

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

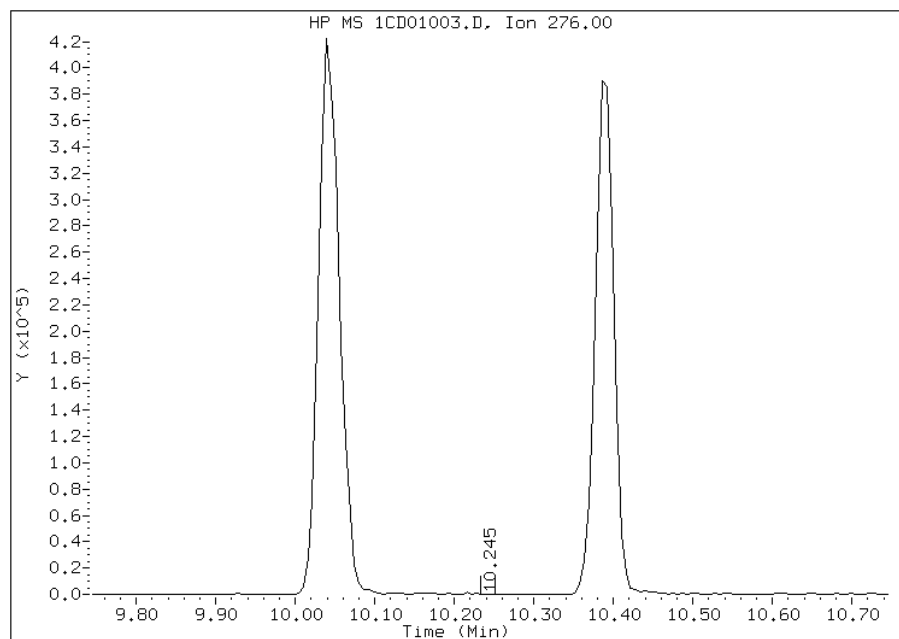


Manual Integration Report

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

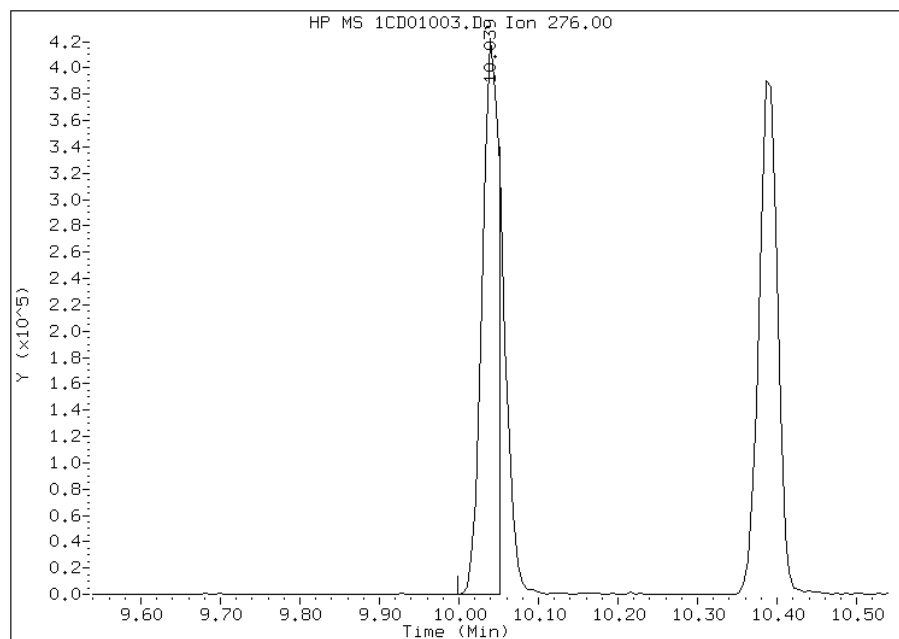
Processing Integration Results

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

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

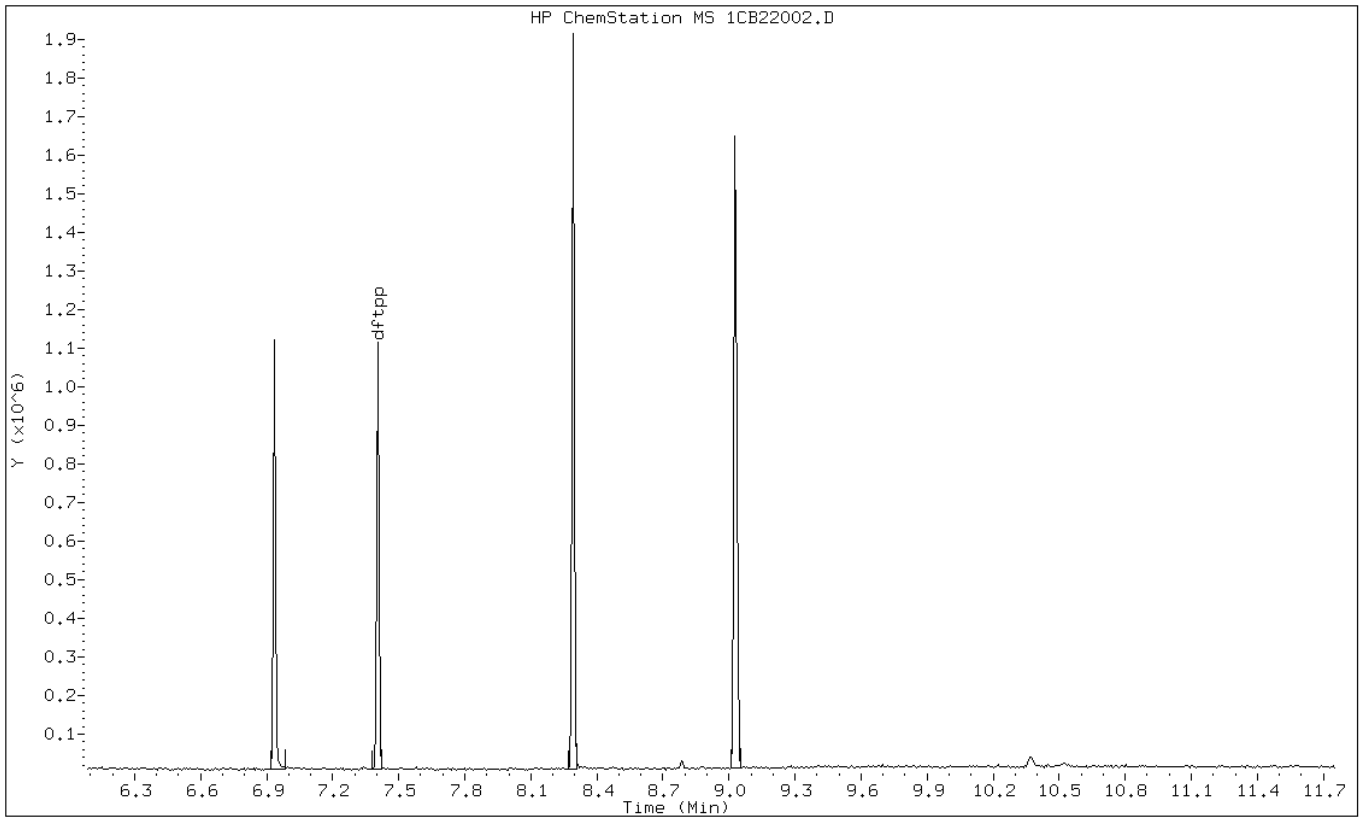
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

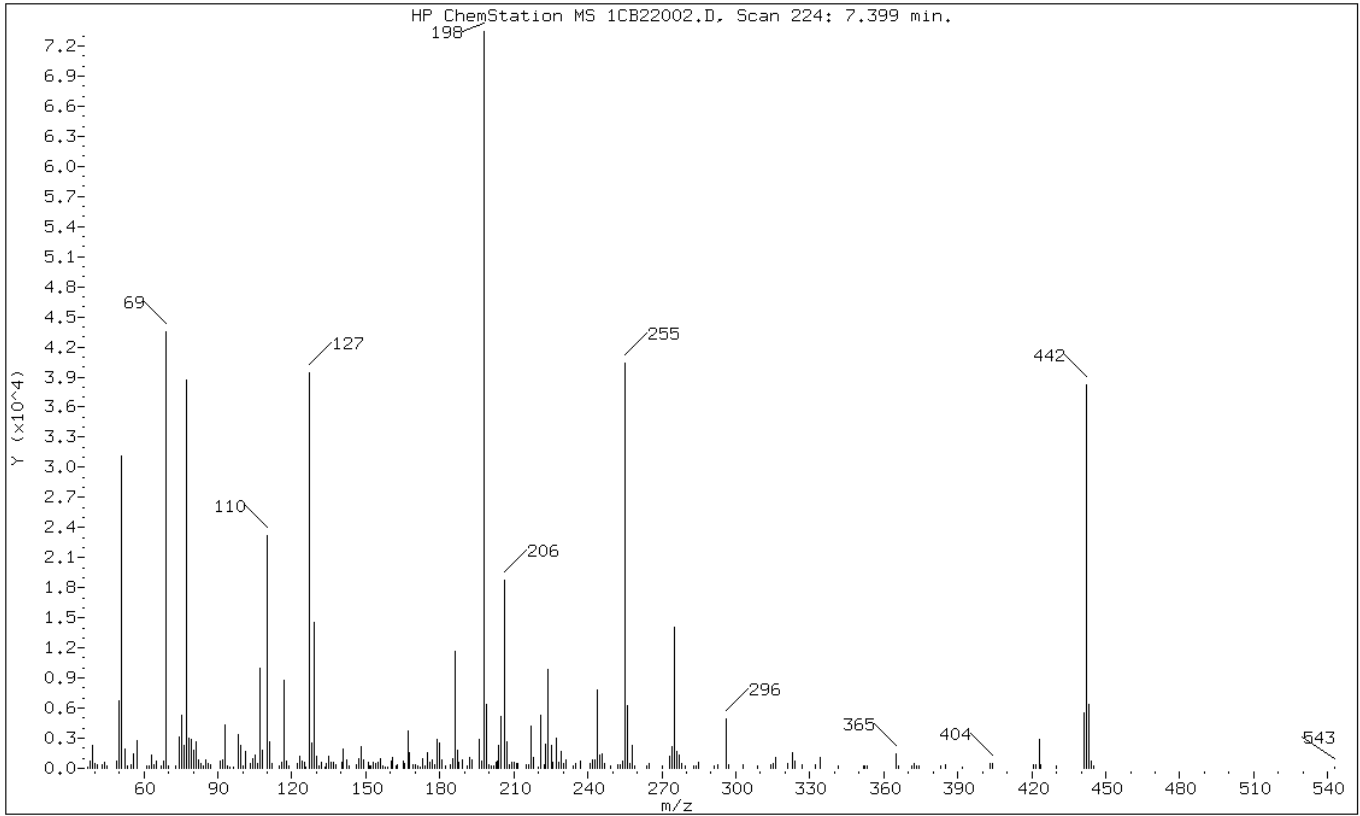
Client ID: DFTPP

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		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 27-MAR-2013 10:18
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.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				
7.322	7.469	-0.147	198	111740			50.00-	0.00	100.00
7.322	7.469	-0.147	51	43188			10.00-	80.00	38.65
7.322	7.469	-0.147	68	1108			0.00-	2.00	1.99
7.322	7.469	-0.147	69	55704			0.00-	0.00	49.85
7.322	7.469	-0.147	70	455			0.00-	2.00	0.82
7.322	7.469	-0.147	127	53208			10.00-	80.00	47.62
7.322	7.469	-0.147	197	1183			0.00-	2.00	1.06
7.322	7.469	-0.147	442	61668			50.00-	0.00	55.19
7.322	7.469	-0.147	199	6945			5.00-	9.00	6.22
7.322	7.469	-0.147	275	20541			10.00-	60.00	18.38
7.322	7.469	-0.147	365	2993			1.00-	0.00	2.68
7.322	7.469	-0.147	441	9207			0.01-	99.99	68.06
7.322	7.469	-0.147	443	13528			15.00-	24.00	21.94

Data File: 1CC27002.D

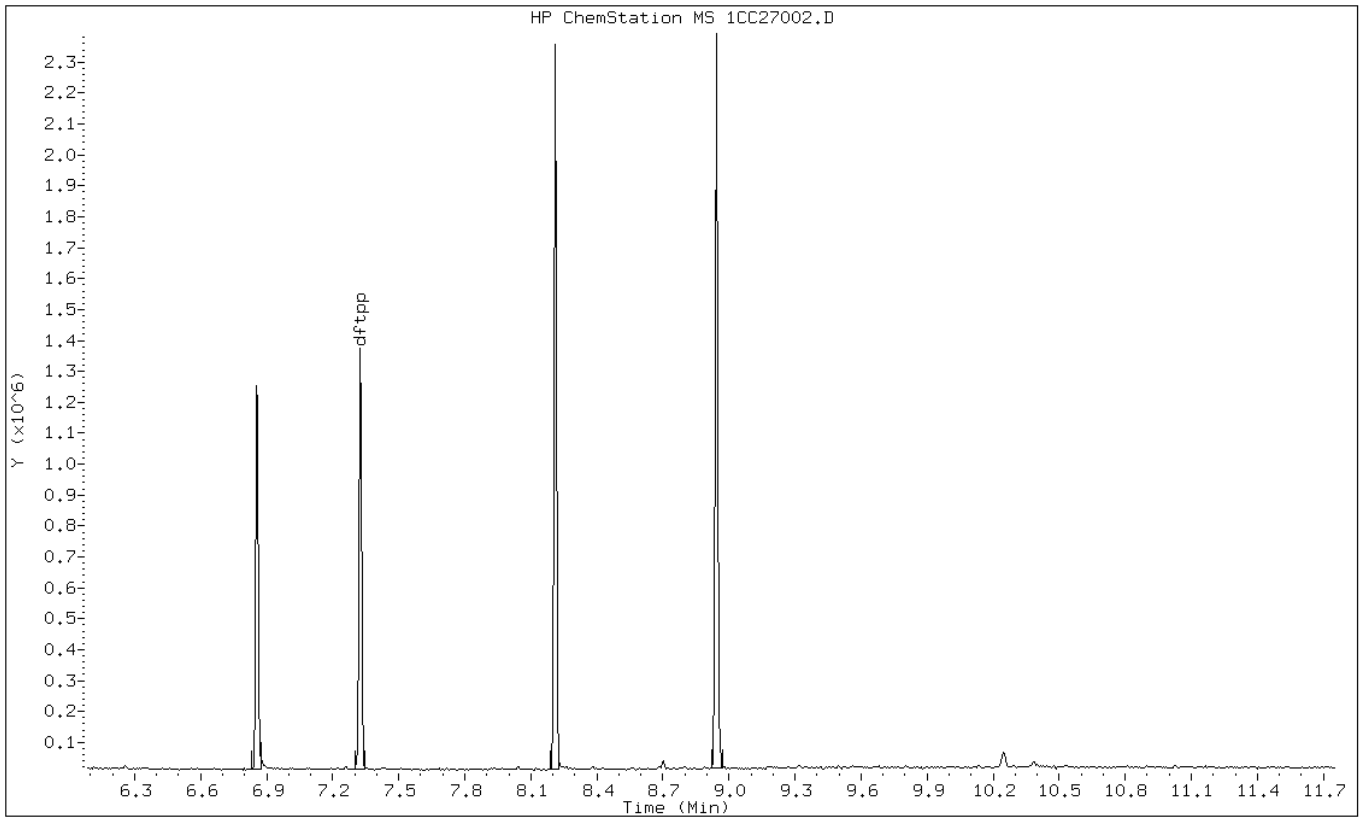
Date: 27-MAR-2013 10:18

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC27002.D

Date: 27-MAR-2013 10:18

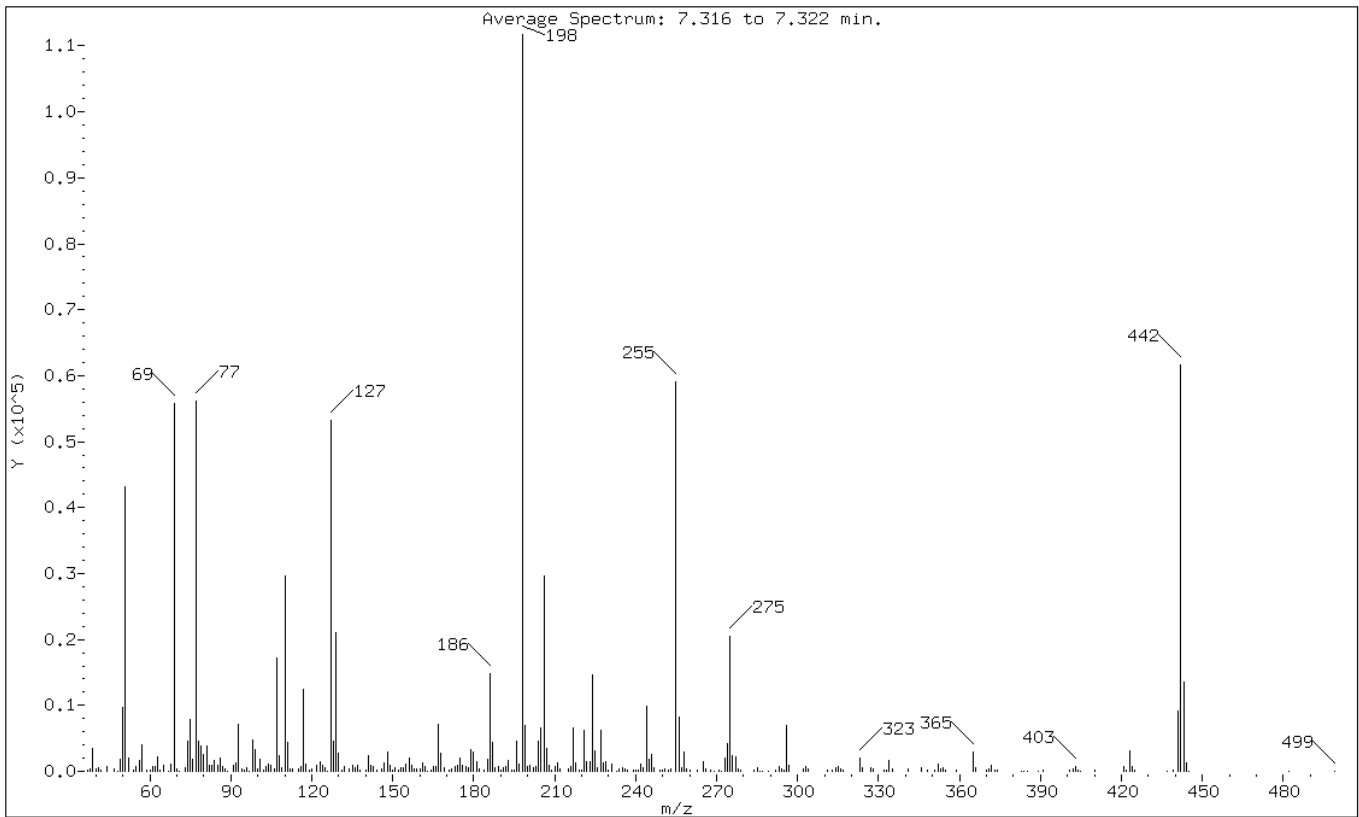
Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	38.65
68	Less than 2.00% of mass 69	0.99 (1.99)
69	Mass 69 relative abundance	49.85
70	Less than 2.00% of mass 69	0.41 (0.82)
127	10.00 - 80.00% of mass 198	47.62
197	Less than 2.00% of mass 198	1.06
442	Greater than 50.00% of mass 198	55.19
199	5.00 - 9.00% of mass 198	6.22
275	10.00 - 60.00% of mass 198	18.38
365	Greater than 1.00% of mass 198	2.68
441	Present, but less than mass 443	8.24
443	15.00 - 24.00% of mass 442	12.11 (21.94)

Data File: 1CC27002.D

Date: 27-MAR-2013 10:18

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsrv\chem\SM\BSMC5973.i\1C032713.b\1CC27002.D

Spectrum: Average Spectrum: 7.316 to 7.322 min.

Location of Maximum: 198.00

Number of points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	110	118.00	1074	196.00	4498	279.00	128
38.00	331	119.00	105	197.00	1183	284.00	166
39.00	3391	120.00	317	198.00	111736	285.00	502
40.00	309	122.00	857	199.00	6945	286.00	85
41.00	524	123.00	1424	200.00	721	287.00	85
42.00	189	124.00	875	201.00	921	289.00	91
44.00	815	125.00	520	202.00	513	292.00	200
47.00	287	126.00	89	203.00	673	293.00	656
48.00	83	127.00	53208	204.00	4538	294.00	330
49.00	1900	128.00	4497	205.00	6576	295.00	263
50.00	9727	129.00	21056	206.00	29576	296.00	7021
51.00	43184	130.00	2658	207.00	3429	297.00	839
52.00	2012	131.00	214	208.00	897	302.00	316
54.00	118	132.00	658	209.00	188	303.00	678
55.00	686	134.00	446	210.00	644	304.00	275
56.00	1674	135.00	949	211.00	1222	311.00	136
57.00	3990	136.00	489	212.00	344	313.00	120
59.00	200	137.00	972	215.00	302	314.00	575
60.00	102	138.00	183	216.00	708	315.00	710
61.00	688	140.00	166	217.00	6495	316.00	451
62.00	643	141.00	2456	218.00	1219	317.00	241
63.00	2108	142.00	826	219.00	209	323.00	2034
64.00	198	143.00	688	220.00	203	324.00	622
65.00	966	144.00	107	221.00	6220	327.00	594
67.00	85	146.00	409	222.00	1372	328.00	314
68.00	1108	147.00	1369	223.00	1554	332.00	256
69.00	55704	148.00	2888	224.00	14710	333.00	127
70.00	455	149.00	863	225.00	3045	334.00	1727
71.00	86	150.00	204	226.00	550	335.00	353
73.00	563	151.00	582	227.00	6149	341.00	409
74.00	4574	152.00	137	228.00	1321	346.00	635
75.00	7776	153.00	604	229.00	1434	348.00	124
76.00	1808	154.00	530	230.00	121	351.00	204
77.00	56120	155.00	1183	231.00	1154	352.00	1050
78.00	4636	156.00	1982	233.00	80	353.00	393
79.00	3764	157.00	960	234.00	360	354.00	628
80.00	2509	158.00	367	235.00	584	355.00	186
81.00	3783	159.00	393	236.00	304	359.00	231
82.00	859	160.00	416	237.00	247	365.00	2993
83.00	944	161.00	1195	239.00	158	366.00	522

84.00	1643	162.00	709	240.00	113	370.00	103
85.00	870	163.00	87	241.00	244	371.00	320
86.00	2033	164.00	228	242.00	1022	372.00	962
87.00	775	165.00	812	243.00	614	373.00	203
88.00	439	166.00	759	244.00	9836	374.00	183
89.00	75	167.00	7152	245.00	1917	383.00	80
91.00	935	168.00	2718	246.00	2545	384.00	82
92.00	1197	169.00	480	247.00	639	385.00	84
93.00	7053	171.00	167	249.00	238	389.00	82
94.00	371	172.00	421	250.00	128	391.00	217
95.00	124	173.00	723	251.00	349	401.00	212
96.00	551	174.00	828	252.00	113	402.00	406
97.00	89	175.00	2017	253.00	373	403.00	666
98.00	4715	176.00	960	255.00	59088	404.00	241
99.00	3308	177.00	807	256.00	8154	405.00	86
100.00	286	178.00	485	257.00	616	410.00	110
101.00	1852	179.00	3326	258.00	3007	421.00	665
102.00	207	180.00	2968	259.00	453	422.00	202
103.00	645	181.00	1541	260.00	126	423.00	3022
104.00	1173	182.00	302	263.00	166	424.00	648
105.00	938	184.00	199	265.00	1416	425.00	235
106.00	416	185.00	1914	266.00	311	437.00	81
107.00	17128	186.00	14888	268.00	116	439.00	98
108.00	2326	187.00	4450	269.00	83	441.00	9207
109.00	491	188.00	490	271.00	106	442.00	61664
110.00	29592	189.00	750	272.00	84	443.00	13528
111.00	4467	190.00	193	273.00	2008	444.00	1364
112.00	401	191.00	634	274.00	4160	445.00	85
113.00	284	192.00	814	275.00	20536	482.00	77
115.00	320	193.00	1721	276.00	2395	499.00	85
116.00	747	194.00	178	277.00	2145		
117.00	12356	195.00	132	278.00	447		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 28-MAR-2013 11:42
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.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				
7.322	7.469	-0.147	198	175680			50.00-	0.00	100.00
7.322	7.469	-0.147	51	57992			10.00-	80.00	33.01
7.322	7.469	-0.147	68	1045			0.00-	2.00	1.38
7.322	7.469	-0.147	69	75992			0.00-	0.00	43.26
7.322	7.469	-0.147	70	578			0.00-	2.00	0.76
7.322	7.469	-0.147	127	84384			10.00-	80.00	48.03
7.322	7.469	-0.147	197	1547			0.00-	2.00	0.88
7.322	7.469	-0.147	442	160576			50.00-	0.00	91.40
7.322	7.469	-0.147	199	12476			5.00-	9.00	7.10
7.322	7.469	-0.147	275	41464			10.00-	60.00	23.60
7.322	7.469	-0.147	365	7644			1.00-	0.00	4.35
7.322	7.469	-0.147	441	23184			0.01-	99.99	63.51
7.322	7.469	-0.147	443	36504			15.00-	24.00	22.73

Data File: 1CC28002.D

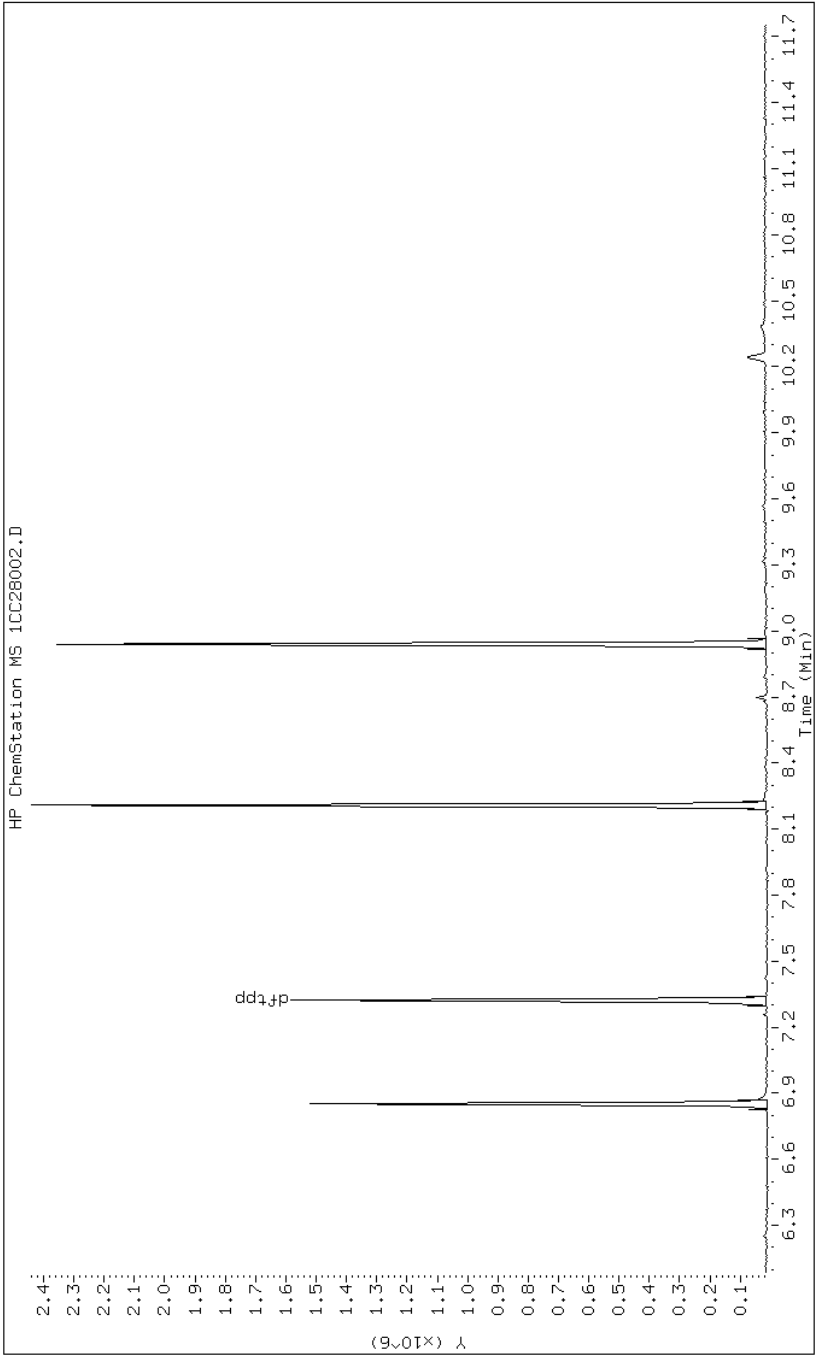
Date: 28-MAR-2013 11:42

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC28002.D

Date: 28-MAR-2013 11:42

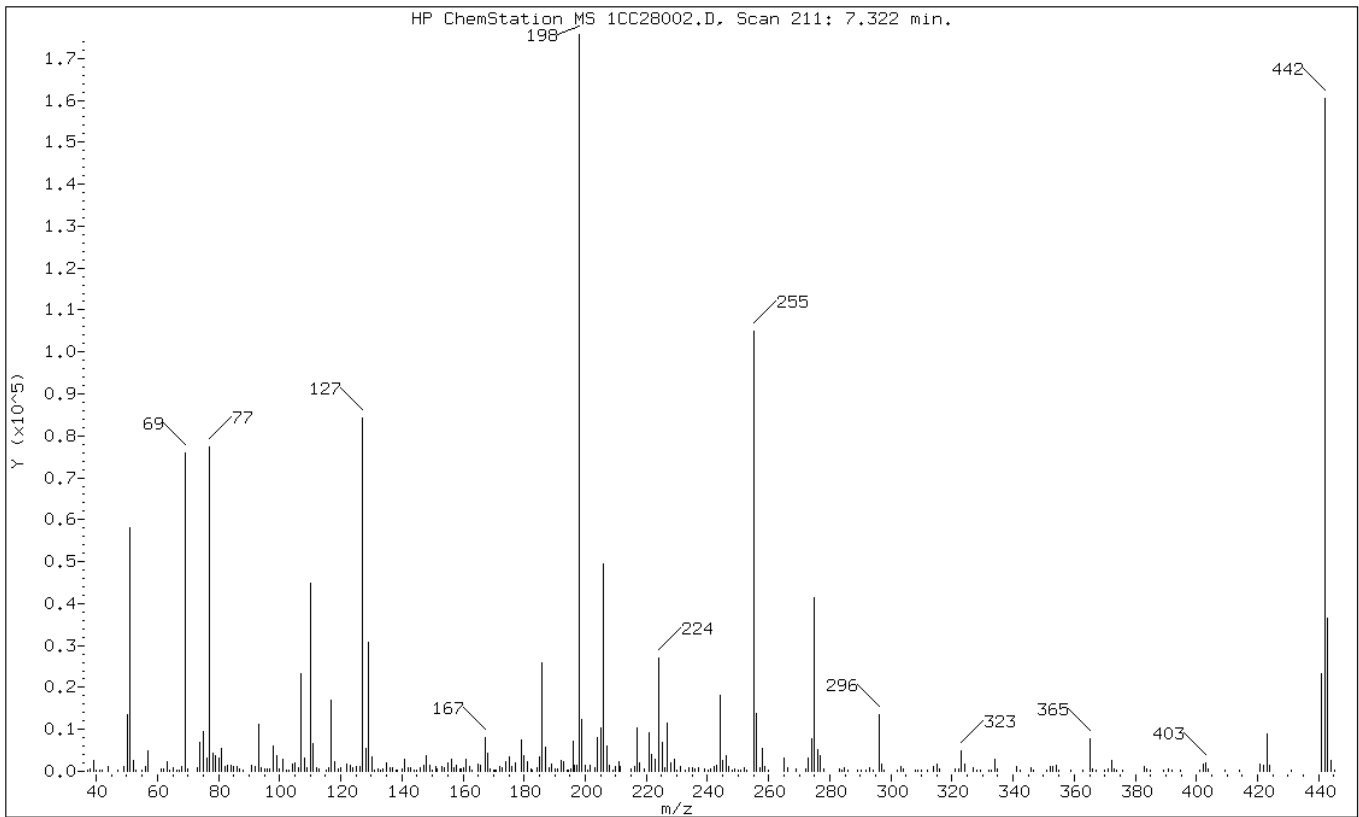
Client ID: DFTPP

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	33.01
68	Less than 2.00% of mass 69	0.59 (1.38)
69	Mass 69 relative abundance	43.26
70	Less than 2.00% of mass 69	0.33 (0.76)
127	10.00 - 80.00% of mass 198	48.03
197	Less than 2.00% of mass 198	0.88
442	Greater than 50.00% of mass 198	91.40
199	5.00 - 9.00% of mass 198	7.10
275	10.00 - 60.00% of mass 198	23.60
365	Greater than 1.00% of mass 198	4.35
441	Present, but less than mass 443	13.20
443	15.00 - 24.00% of mass 442	20.78 (22.73)

Data File: 1CC28002.D

Date: 28-MAR-2013 11:42

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28002.D

Spectrum: HP ChemStation MS 1CC28002.D, Scan 211: 7.322 min.

Location of Maximum: 198.00

Number of points: 292

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.20	294	125.10	1116	197.10	1547	291.80	246
38.10	630	126.20	1154	198.00	175680	293.00	847
39.20	2603	127.10	84384	199.00	12476	294.10	212
40.00	408	128.10	5411	200.10	1313	296.00	13416
41.20	348	129.00	30832	200.90	187	297.00	1681
42.00	193	130.10	3565	201.60	1567	297.90	256
44.00	1093	131.10	373	203.20	825	302.10	338
46.90	181	132.10	511	204.10	8129	303.20	1156
49.10	1140	132.90	271	205.00	10400	304.10	460
50.10	13428	133.80	674	206.10	49432	308.00	168
51.10	57992	135.10	2085	207.00	6166	308.90	285
52.10	2487	136.00	767	208.00	1401	310.10	164
52.80	156	137.00	942	209.20	383	311.90	236
55.10	337	138.20	176	210.00	1251	314.00	1043
56.10	1126	138.70	221	211.00	2371	315.00	1865
57.10	4979	140.20	712	211.60	1259	316.00	518
61.10	544	141.00	2761	215.10	588	321.20	550
62.10	599	142.00	977	216.00	1064	322.10	603
63.10	2258	143.00	796	217.00	10305	323.00	4944
64.10	174	143.90	380	217.80	2070	324.00	1585
65.00	871	144.90	211	219.30	689	327.00	810
66.20	154	146.10	911	221.00	9334	328.20	265
67.10	402	147.00	1554	221.60	3971	329.20	358
68.10	1045	148.00	3782	222.90	2906	332.10	240
69.10	75992	149.00	1427	224.10	27024	332.70	164
70.10	578	150.00	283	225.10	6866	334.10	2862
73.10	834	151.10	1130	226.00	835	334.90	636
74.00	6873	151.70	435	227.00	11564	341.10	1069
75.10	9534	152.90	1041	228.00	1915	342.30	170
76.10	3183	154.00	728	229.00	2855	345.90	742
77.10	77320	155.00	2109	229.90	225	346.70	303
78.20	4278	156.10	2889	231.10	1135	351.00	263
79.00	3766	157.00	929	232.80	280	352.10	1277
80.00	3178	157.90	1527	234.10	813	353.00	1175
81.00	5589	159.00	550	235.00	911	354.10	1455
82.00	1067	159.60	475	235.90	646	354.80	277
83.10	1403	160.10	940	237.00	907	359.00	193
84.00	1332	160.90	2762	238.90	485	362.80	172
85.00	1182	162.10	1195	240.20	153	365.00	7644
86.10	1187	163.10	263	240.90	601	366.00	698

87.00	553	165.10	1735	242.00	1243	367.10	153
88.00	353	165.90	1342	242.90	1417	369.80	320
91.00	1495	167.10	8176	244.00	18256	371.10	439
92.10	1101	168.00	4307	245.00	2490	372.10	2645
93.00	11102	169.00	492	246.00	3736	372.90	510
94.00	864	170.00	314	247.00	1048	373.80	366
95.10	470	170.40	307	248.00	421	375.90	152
96.10	689	171.00	331	248.90	554	383.00	1095
96.90	564	172.00	1053	250.20	320	383.80	440
98.00	5969	173.00	960	250.70	240	384.80	391
99.00	3600	174.10	2229	252.20	871	389.40	153
100.00	498	175.10	3576	252.90	284	390.80	613
101.00	2743	176.10	1123	255.00	104920	392.00	154
102.10	160	177.10	1950	256.10	13841	394.90	212
102.90	364	179.00	7514	257.20	1001	401.10	308
104.10	1615	180.00	3880	258.00	5520	402.10	1695
104.90	2147	181.10	2231	258.90	1271	403.10	2087
106.00	933	182.10	464	259.90	325	404.00	687
107.10	23360	182.80	153	265.00	3276	409.20	289
108.00	3118	184.20	929	266.10	756	414.20	158
109.10	833	185.10	3566	269.10	572	420.90	1605
110.10	44752	186.00	25984	272.10	460	422.00	1469
111.10	6663	187.10	5816	273.00	3273	423.00	8780
112.00	991	188.20	753	274.00	7767	423.90	1316
113.00	509	189.00	1701	275.00	41464	431.10	306
115.30	177	190.00	461	276.10	5206	441.00	23184
116.10	741	190.80	566	277.00	3602	442.00	160576
117.00	17008	192.00	2454	277.90	475	443.00	36504
118.00	2311	193.00	2393	283.00	610	444.10	2482
119.10	551	193.90	408	284.10	393	445.20	409
120.10	775	194.60	180	284.90	769		
122.00	1695	195.20	647	286.10	227		
123.10	1318	196.00	7215	288.90	205		
123.80	818	196.60	1396	290.20	151		

TestAmerica Laboratories

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

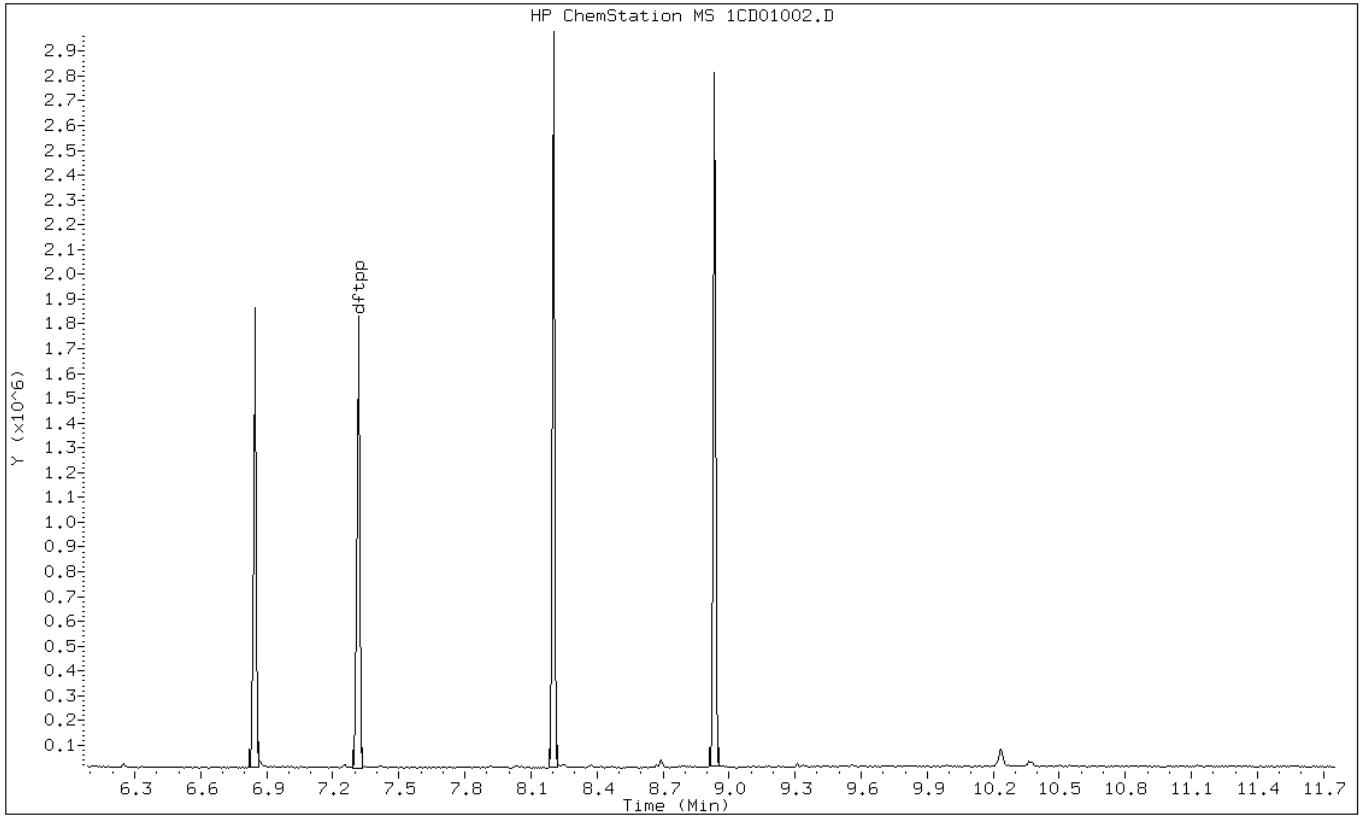
Date: 01-APR-2013 11:14

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CD01002.D

Date: 01-APR-2013 11:14

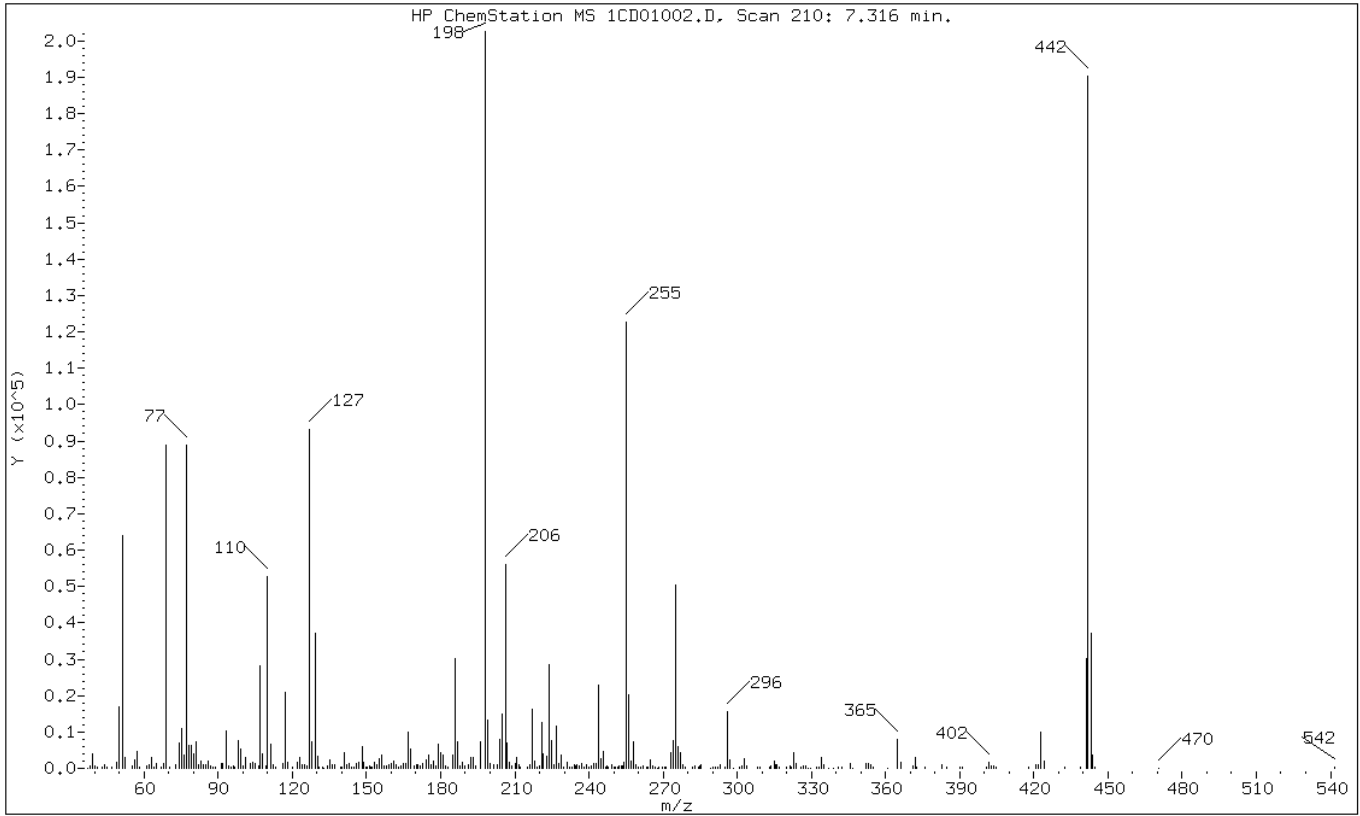
Client ID: DFTPP

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		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: _____ Lab Sample ID: MB 660-135754/1-A
 Matrix: Solid Lab File ID: 1CC28012.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.00(g) Date Analyzed: 03/28/2013 14:46
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28012.D
 Lab Smp Id: mb 660-135754/1-a
 Inj Date : 28-MAR-2013 14:46
 Operator : SCC
 Smp Info : mb 660-135754/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 12 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.721	3.722	(1.000)	719073	40.0000	
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	559054	40.0000	
* 10 Phenanthrene-d10	188		5.757	5.763	(1.000)	1066935	40.0000	
\$ 14 o-Terphenyl	230		6.009	6.010	(1.044)	131449	8.16002	544.0015
* 18 Chrysene-d12	240		7.698	7.704	(1.000)	1235853	40.0000	
* 23 Perylene-d12	264		8.880	8.886	(1.000)	1249019	40.0000	

Data File: 1CC28012.D

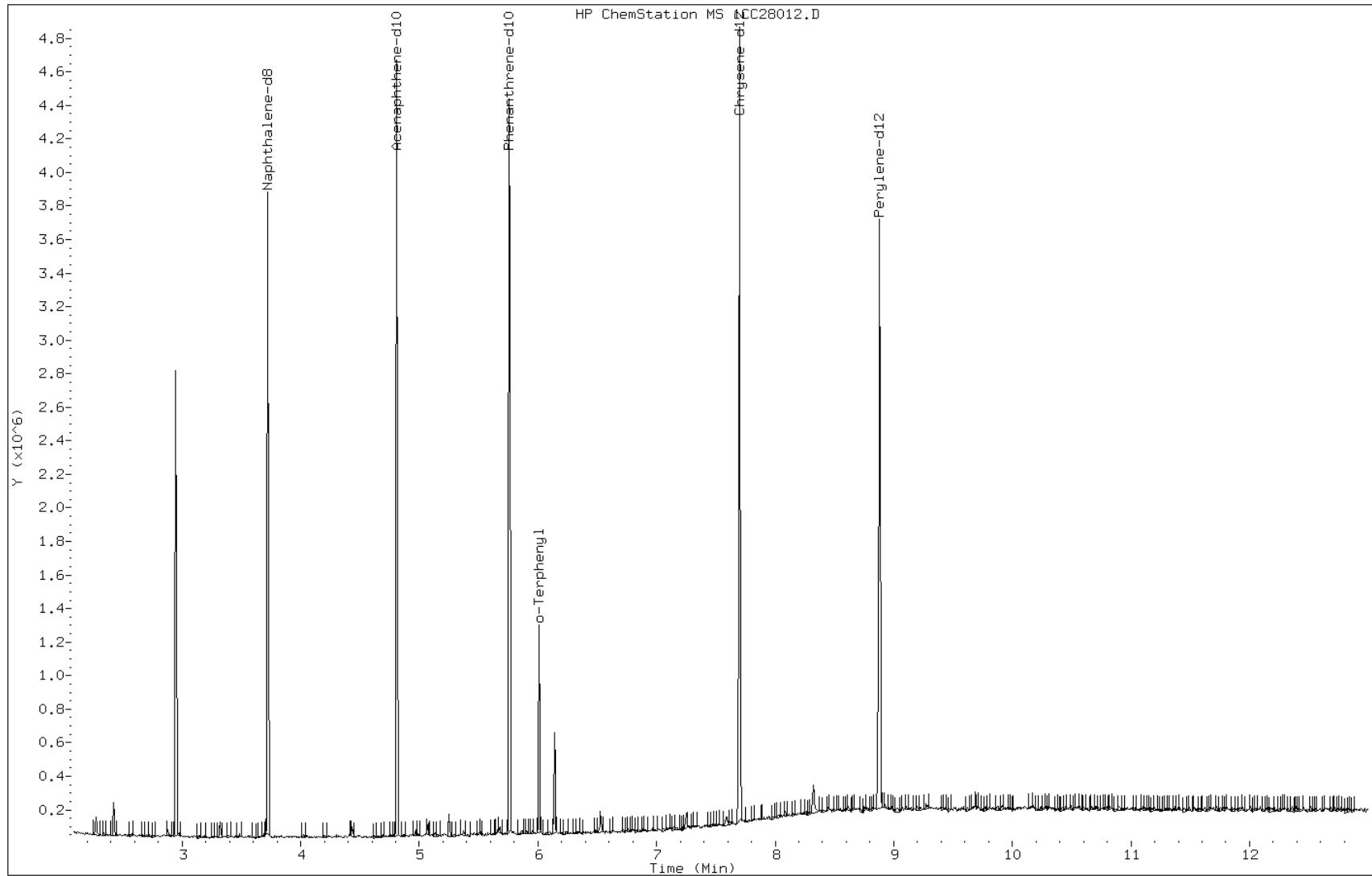
Date: 28-MAR-2013 14:46

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135754/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: _____ Lab Sample ID: MB 660-135800/1-A
 Matrix: Solid Lab File ID: 1CC27005.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07
 Sample wt/vol: 15.02(g) Date Analyzed: 03/27/2013 11:26
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135830 Units: ug/Kg

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

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27005.D
 Lab Smp Id: mb 660-135800/1-a
 Inj Date : 27-MAR-2013 11:26
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : mb 660-135800/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 5 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.020	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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	733449	40.0000	
* 6 Acenaphthene-d10	164		4.821	4.815	(1.000)	569617	40.0000	
* 10 Phenanthrene-d10	188		5.774	5.762	(1.000)	1053797	40.0000	
\$ 14 o-Terphenyl	230		6.027	6.015	(1.044)	109413	6.87676	457.8403
* 18 Chrysene-d12	240		7.715	7.704	(1.000)	1355661	40.0000	
* 23 Perylene-d12	264		8.909	8.886	(1.000)	1428942	40.0000	(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1CC27005.D

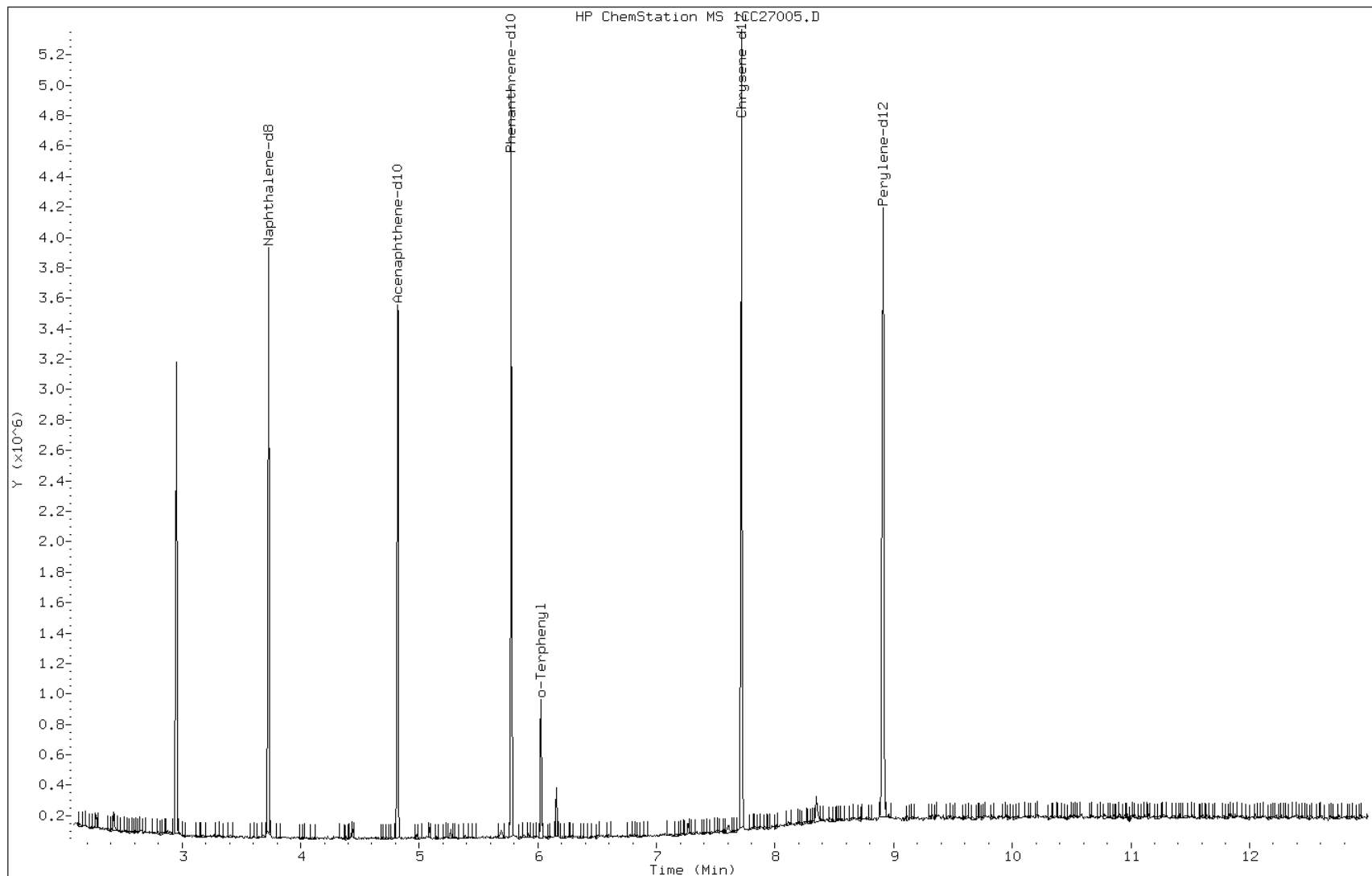
Date: 27-MAR-2013 11:26

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135800/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: _____ Lab Sample ID: LCS 660-135754/2-A
 Matrix: Solid Lab File ID: 1CC28013.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.31(g) Date Analyzed: 03/28/2013 15:04
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	560		98	20
208-96-8	Acenaphthylene	589		39	4.9
120-12-7	Anthracene	581		8.2	4.1
56-55-3	Benzo[a]anthracene	617		7.8	3.8
50-32-8	Benzo[a]pyrene	595		10	5.1
205-99-2	Benzo[b]fluoranthene	631		12	6.0
191-24-2	Benzo[g,h,i]perylene	585		20	4.3
207-08-9	Benzo[k]fluoranthene	644		7.8	3.5
218-01-9	Chrysene	597		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	604		20	4.0
206-44-0	Fluoranthene	612		20	3.9
86-73-7	Fluorene	593		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	608		20	7.0
90-12-0	1-Methylnaphthalene	619		39	4.3
91-57-6	2-Methylnaphthalene	636		39	7.0
91-20-3	Naphthalene	612		39	4.3
85-01-8	Phenanthrene	547		7.8	3.8
129-00-0	Pyrene	647		20	3.6

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28013.D
 Lab Smp Id: lcs 660-135754/2-a
 Inj Date : 28-MAR-2013 15:04
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : lcs 660-135754/2-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 13 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.310	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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.721	3.722	(1.000)	707514	40.0000	
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	575821	40.0000	
* 10 Phenanthrene-d10	188		5.757	5.763	(1.000)	1089761	40.0000	
\$ 14 o-Terphenyl	230		6.009	6.010	(1.044)	148035	8.99716	587.6652
* 18 Chrysene-d12	240		7.698	7.704	(1.000)	1256595	40.0000	
* 23 Perylene-d12	264		8.880	8.886	(1.000)	1278924	40.0000	
2 Naphthalene	128		3.733	3.733	(1.003)	172471	9.36362	611.6016
3 2-Methylnaphthalene	142		4.163	4.163	(1.119)	119553	9.73047	635.5630
4 1-Methylnaphthalene	142		4.221	4.222	(1.134)	106023	9.47478	618.8622
5 Acenaphthylene	152		4.721	4.722	(0.982)	209256	9.01371	588.7468
7 Acenaphthene	154		4.827	4.833	(1.004)	123743	8.57563	560.1327
9 Fluorene	166		5.151	5.151	(1.071)	165619	9.07558	592.7877
11 Phenanthrene	178		5.774	5.774	(1.003)	263826	8.37249	546.8638
12 Anthracene	178		5.809	5.810	(1.009)	274225	8.89831	581.2093

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.915	5.921	(1.028)	261472	9.54461	623.4233
15 Fluoranthene	202	6.609	6.616	(1.148)	323577	9.37675	612.4592
16 Pyrene	202	6.780	6.780	(0.881)	334298	9.89950	646.6034
17 Benzo(a)anthracene	228	7.692	7.698	(0.999)	342836	9.45291	617.4339
19 Chrysene	228	7.721	7.721	(1.003)	331927	9.14525	597.3385
20 Benzo(b)fluoranthene	252	8.533	8.539	(0.961)	322986	9.66357	631.1935
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.964)	337961	9.85687	643.8190
22 Benzo(a)pyrene	252	8.827	8.827	(0.994)	295946	9.11593	595.4230
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	284105	9.30269	607.6214(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.062	(1.132)	276126	9.24348	603.7543
26 Benzo(g,h,i)perylene	276	10.386	10.398	(1.170)	286052	8.95381	584.8340

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC28013.D

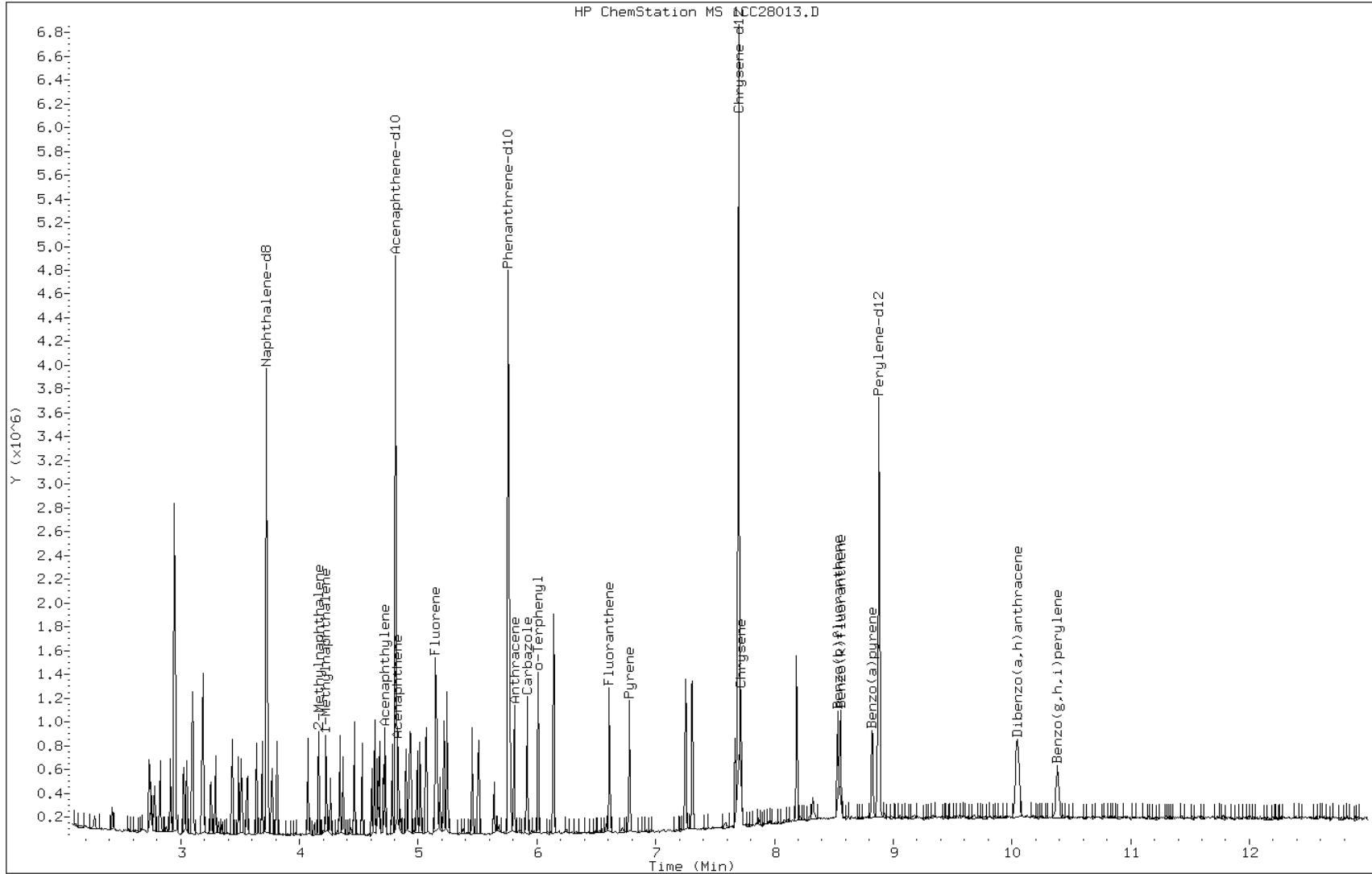
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Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135754/2-a

Operator: SCC

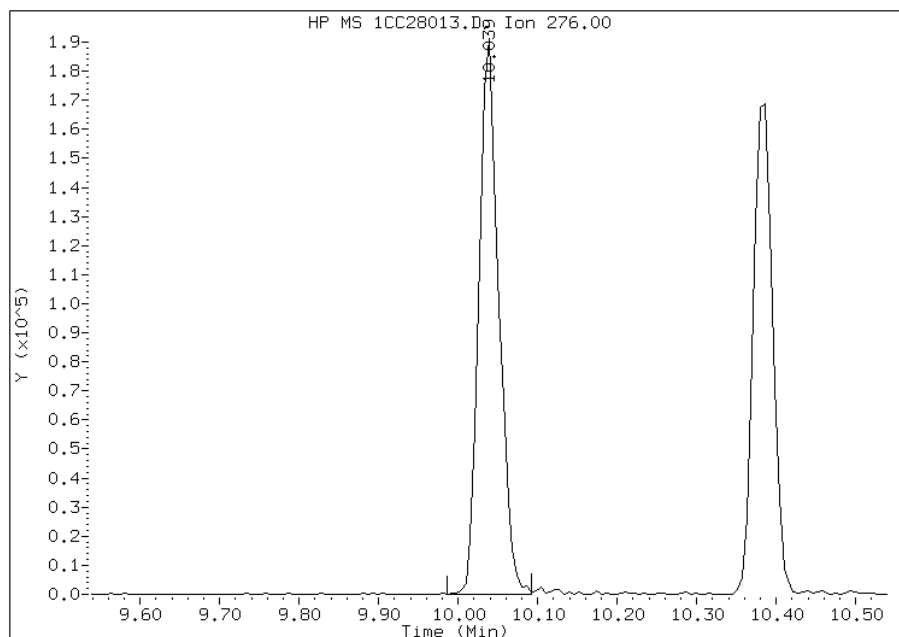


Manual Integration Report

Data File: 1CC28013.D
Inj. Date and Time: 28-MAR-2013 15:04
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

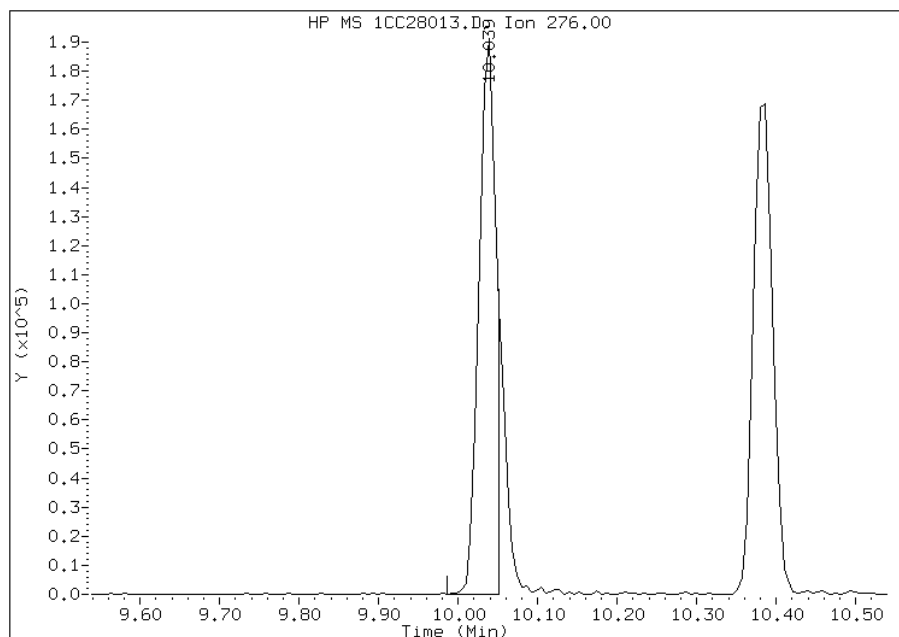
Processing Integration Results

RT: 10.04
Response: 329080
Amount: 11
Conc: 704



Manual Integration Results

RT: 10.04
Response: 284105
Amount: 9
Conc: 608



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 16:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: _____ Lab Sample ID: LCS 660-135800/2-A
 Matrix: Solid Lab File ID: 1CC27006.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07
 Sample wt/vol: 14.93(g) Date Analyzed: 03/27/2013 11:44
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	534		100	20
208-96-8	Acenaphthylene	518		40	5.0
120-12-7	Anthracene	533		8.4	4.2
56-55-3	Benzo[a]anthracene	502		8.0	3.9
50-32-8	Benzo[a]pyrene	483		10	5.2
205-99-2	Benzo[b]fluoranthene	554		12	6.1
191-24-2	Benzo[g,h,i]perylene	493		20	4.4
207-08-9	Benzo[k]fluoranthene	514		8.0	3.6
218-01-9	Chrysene	494		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	525		20	4.1
206-44-0	Fluoranthene	540		20	4.0
86-73-7	Fluorene	558		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	495		20	7.1
90-12-0	1-Methylnaphthalene	553		40	4.4
91-57-6	2-Methylnaphthalene	503		40	7.1
91-20-3	Naphthalene	505		40	4.4
85-01-8	Phenanthrene	503		8.0	3.9
129-00-0	Pyrene	517		20	3.7

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27006.D
 Lab Smp Id: lcs 660-135800/2-a
 Inj Date : 27-MAR-2013 11:44
 Operator : SCC
 Smp Info : lcs 660-135800/2-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27006.D
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 6 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	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				
			ON-COLUMN	FINAL	ON-COLUMN	FINAL	
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136	3.727	3.727	(1.000)	652625	40.0000	
* 6 Acenaphthene-d10	164	4.815	4.815	(1.000)	502253	40.0000	
* 10 Phenanthrene-d10	188	5.762	5.762	(1.000)	992616	40.0000	
\$ 14 o-Terphenyl	230	6.015	6.015	(1.044)	108704	7.25331	485.8212
* 18 Chrysene-d12	240	7.703	7.704	(1.000)	1311274	40.0000	
* 23 Perylene-d12	264	8.892	8.886	(1.000)	1340417	40.0000	
2 Naphthalene	128	3.739	3.739	(1.003)	128116	7.54054	505.0595
3 2-Methylnaphthalene	142	4.168	4.168	(1.118)	85194	7.51716	503.4935
4 1-Methylnaphthalene	142	4.227	4.227	(1.134)	85211	8.25536	552.9377
5 Acenaphthylene	152	4.727	4.727	(0.982)	156640	7.73559	518.1239
7 Acenaphthene	154	4.833	4.833	(1.004)	100340	7.97232	533.9797
9 Fluorene	166	5.157	5.157	(1.071)	132624	8.33204	558.0736
11 Phenanthrene	178	5.780	5.780	(1.003)	215750	7.51688	503.4748
12 Anthracene	178	5.815	5.815	(1.009)	223167	7.95025	532.5015

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.921	5.921	(1.028)	208607	8.36011	559.9536
15 Fluoranthene	202	6.615	6.615	(1.148)	253297	8.05851	539.7528
16 Pyrene	202	6.786	6.786	(0.881)	271762	7.71205	516.5474
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	283634	7.49444	501.9721
19 Chrysene	228	7.727	7.727	(1.003)	279367	7.37616	494.0493
20 Benzo(b)fluoranthene	252	8.545	8.539	(0.961)	289903	8.27583	554.3088
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.963)	275549	7.66789	513.5896
22 Benzo(a)pyrene	252	8.833	8.833	(0.993)	245352	7.21079	482.9731
24 Indeno(1,2,3-cd)pyrene	276	10.050	10.050	(1.130)	236438	7.38672	494.7567(M)
25 Dibenzo(a,h)anthracene	278	10.068	10.068	(1.132)	245341	7.83616	524.8597
26 Benzo(g,h,i)perylene	276	10.403	10.397	(1.170)	246420	7.35942	492.9283

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC27006.D

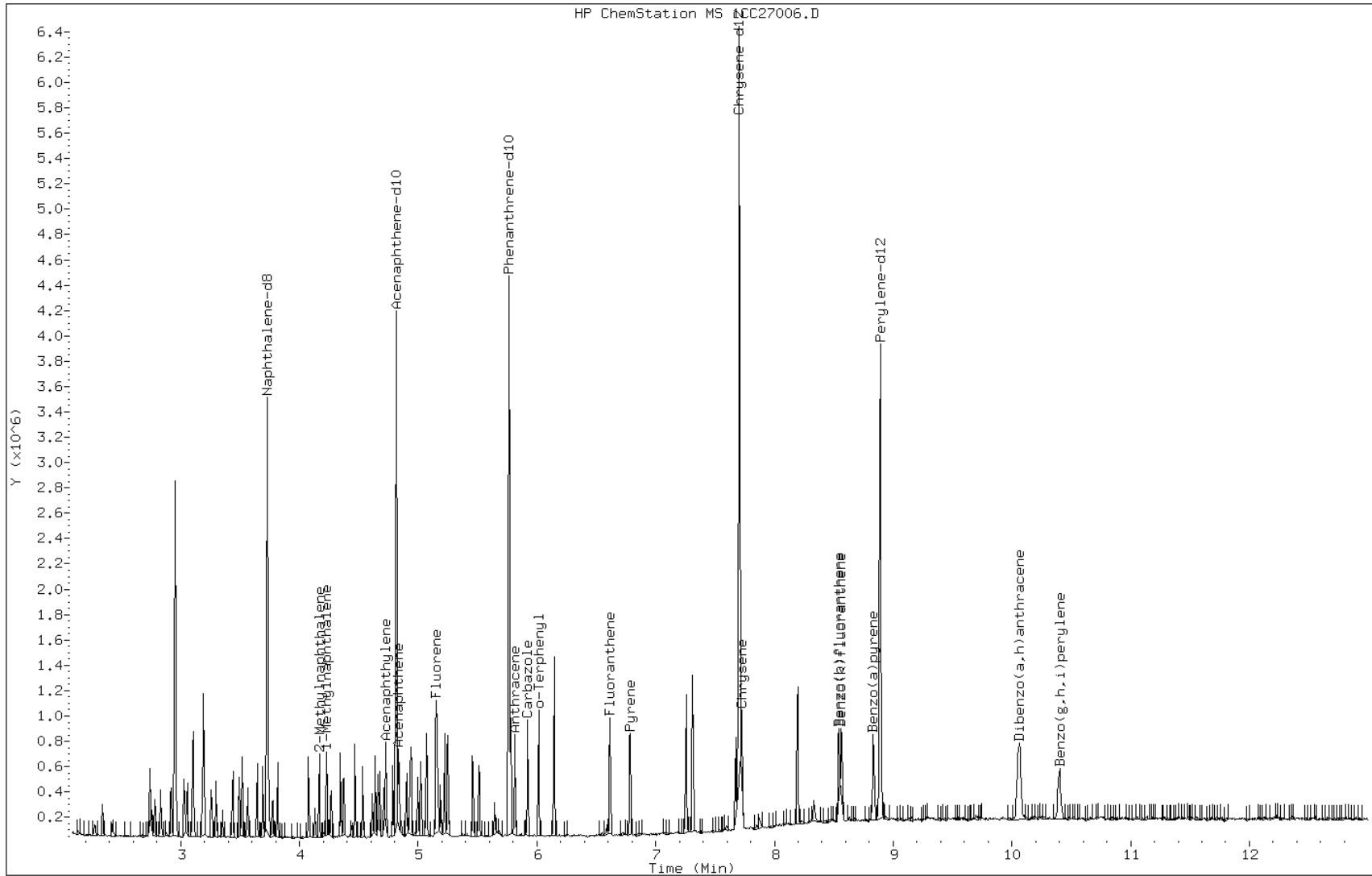
Date: 27-MAR-2013 11:44

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135800/2-a

Operator: SCC

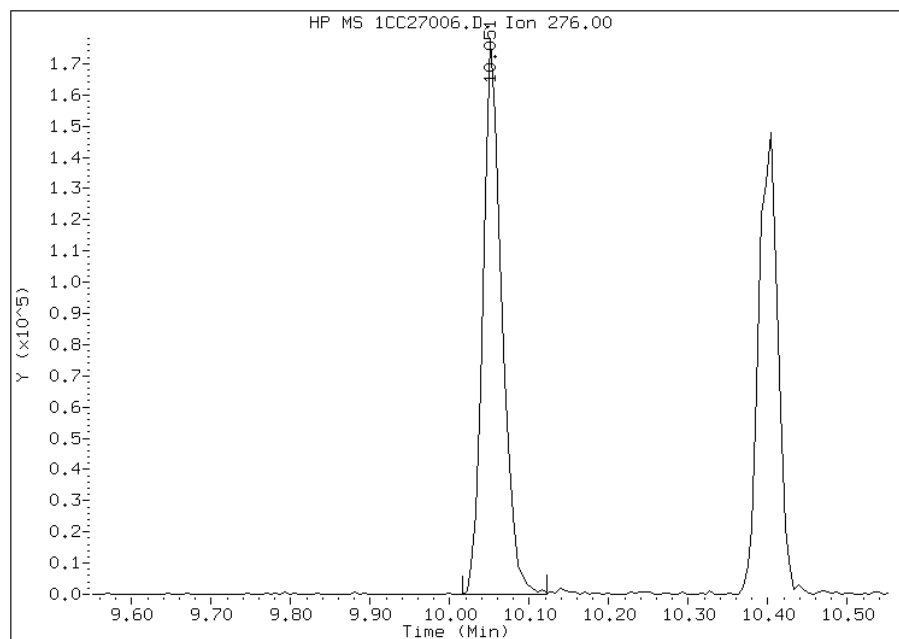


Manual Integration Report

Data File: 1CC27006.D
Inj. Date and Time: 27-MAR-2013 11:44
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/27/2013

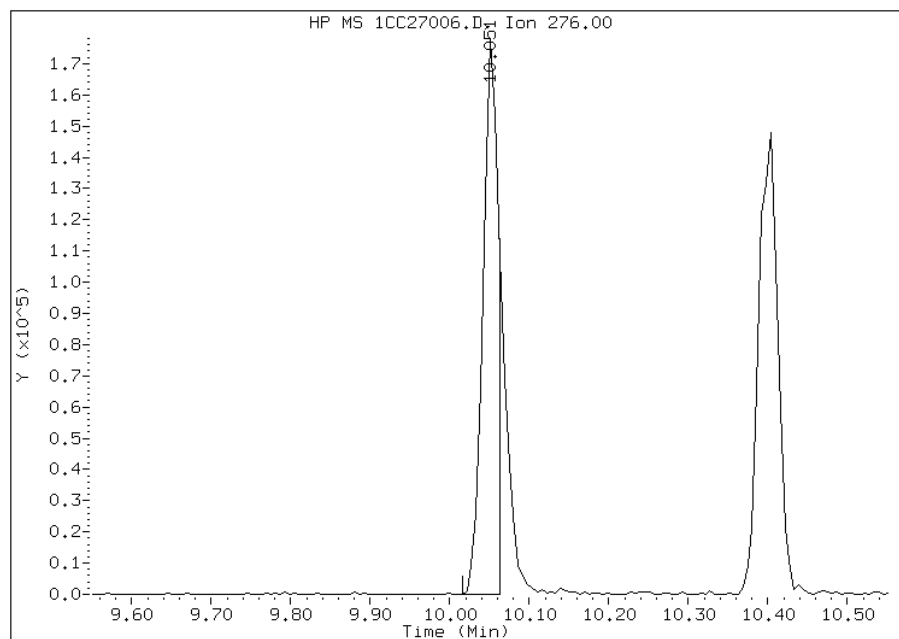
Processing Integration Results

RT: 10.05
Response: 292346
Amount: 9
Conc: 612



Manual Integration Results

RT: 10.05
Response: 236438
Amount: 7
Conc: 495



Manually Integrated By: cantins
Modification Date: 27-Mar-2013 12:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: _____ Lab Sample ID: 680-88527-A-21-B MS
 Matrix: Solid Lab File ID: 1CC28015.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.21(g) Date Analyzed: 03/28/2013 15:41
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 40.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	838		170	33
208-96-8	Acenaphthylene	903		66	8.3
120-12-7	Anthracene	920		14	6.9
56-55-3	Benzo[a]anthracene	904		13	6.4
50-32-8	Benzo[a]pyrene	933		17	8.6
205-99-2	Benzo[b]fluoranthene	977		20	10
191-24-2	Benzo[g,h,i]perylene	847		33	7.3
207-08-9	Benzo[k]fluoranthene	959		13	5.9
218-01-9	Chrysene	933		15	7.4
53-70-3	Dibenz(a,h)anthracene	876		33	6.8
206-44-0	Fluoranthene	1040		33	6.6
86-73-7	Fluorene	898		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	806		33	12
90-12-0	1-Methylnaphthalene	981		66	7.3
91-57-6	2-Methylnaphthalene	912		66	12
91-20-3	Naphthalene	949		66	7.3
85-01-8	Phenanthrene	938		13	6.4
129-00-0	Pyrene	1060		33	6.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28015.D
 Lab Smp Id: 680-88527-a-21-b ms
 Inj Date : 28-MAR-2013 15:41
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88527-a-21-b ms
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 15 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	15.210	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.721	3.722	(1.000)	757603	40.0000		
* 6 Acenaphthene-d10	164		4.810	4.810	(1.000)	608144	40.0000		
* 10 Phenanthrene-d10	188		5.757	5.763	(1.000)	1106477	40.0000		
\$ 14 o-Terphenyl	230		6.009	6.010	(1.044)	119191	7.13466	469.0767	
* 18 Chrysene-d12	240		7.703	7.704	(1.000)	1334075	40.0000		
* 23 Perylene-d12	264		8.880	8.886	(1.000)	1313910	40.0000		
2 Naphthalene	128		3.733	3.733	(1.003)	170091	8.62387	566.9871	
3 2-Methylnaphthalene	142		4.162	4.163	(1.119)	108959	8.28190	544.5034	
4 1-Methylnaphthalene	142		4.221	4.222	(1.134)	106829	8.91562	586.1683	
5 Acenaphthylene	152		4.721	4.722	(0.982)	201219	8.20684	539.5686	
7 Acenaphthene	154		4.827	4.833	(1.004)	116059	7.61562	500.6984	
9 Fluorene	166		5.151	5.151	(1.071)	157186	8.15566	536.2039	
11 Phenanthrene	178		5.774	5.774	(1.003)	272664	8.52223	560.3046	
12 Anthracene	178		5.809	5.810	(1.009)	261537	8.35839	549.5326	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.915	5.921	(1.028)	237429	8.53603	561.2113
15 Fluoranthene	202	6.609	6.616	(1.148)	330705	9.43853	620.5476
16 Pyrene	202	6.780	6.780	(0.880)	343634	9.58497	630.1753
17 Benzo(a)anthracene	228	7.692	7.698	(0.998)	316131	8.21035	539.7991
19 Chrysene	228	7.721	7.721	(1.002)	326493	8.47310	557.0740
20 Benzo(b)fluoranthene	252	8.533	8.539	(0.961)	304672	8.87290	583.3598
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.964)	306914	8.71301	572.8475
22 Benzo(a)pyrene	252	8.827	8.827	(0.994)	282705	8.47620	557.2777
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	229842	7.32551	481.6246(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.062	(1.132)	244128	7.95472	522.9927
26 Benzo(g,h,i)perylene	276	10.386	10.398	(1.170)	252574	7.69539	505.9427

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC28015.D

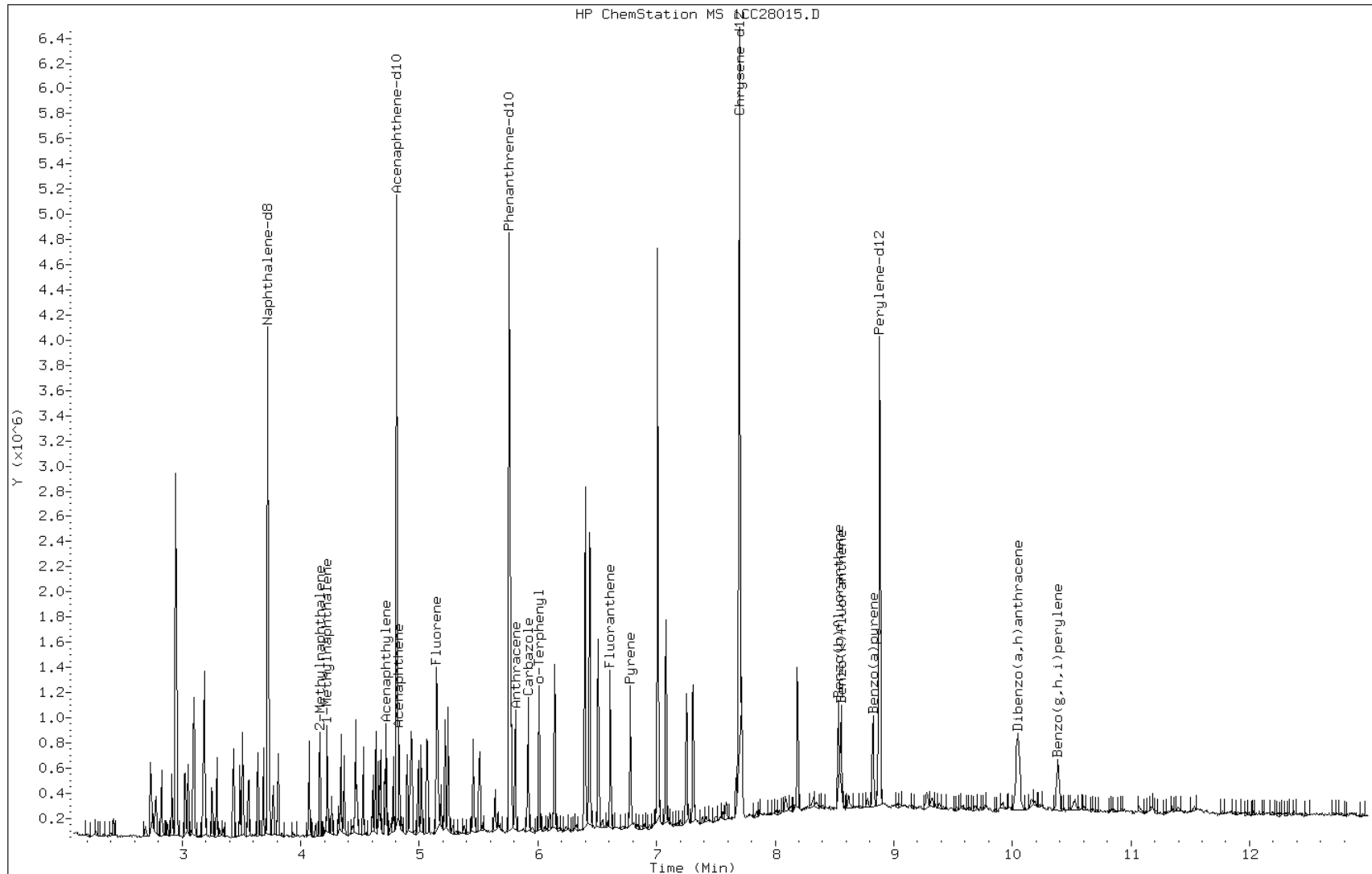
Date: 28-MAR-2013 15:41

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-b ms

Operator: SCC

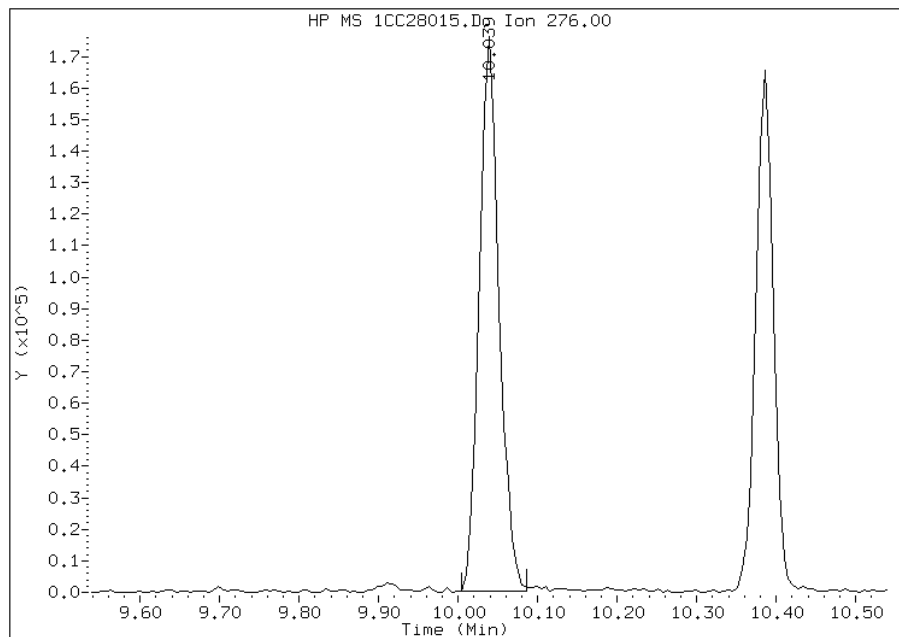


Manual Integration Report

Data File: 1CC28015.D
Inj. Date and Time: 28-MAR-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

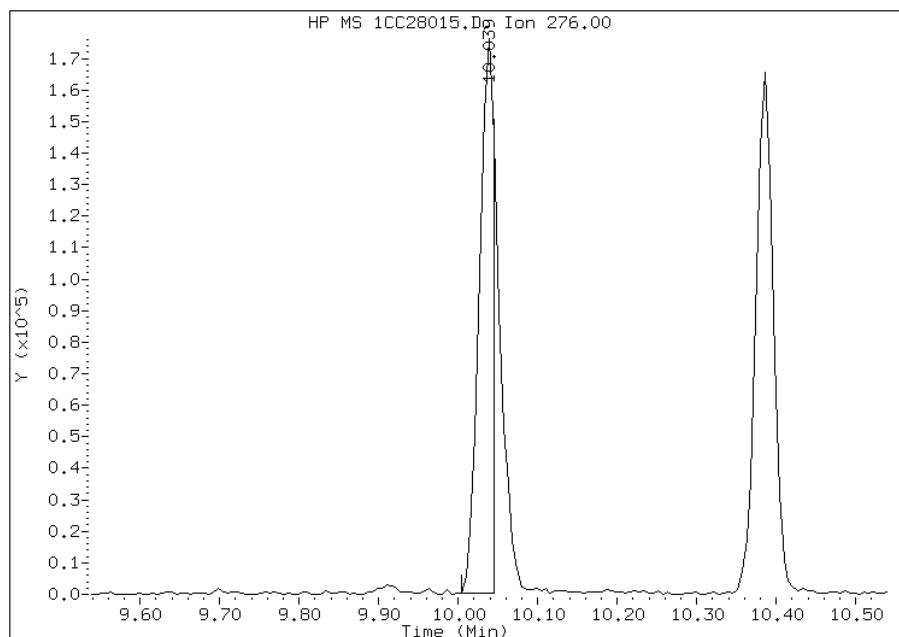
Processing Integration Results

RT: 10.04
Response: 302325
Amount: 10
Conc: 634



Manual Integration Results

RT: 10.04
Response: 229842
Amount: 7
Conc: 482



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 17:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1156B-CS MS Lab Sample ID: 680-88592-19 MS
 Matrix: Solid Lab File ID: 1CC27009.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 13:45
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07
 Sample wt/vol: 15.02(g) Date Analyzed: 03/27/2013 12:39
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 33.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	681		600	120
208-96-8	Acenaphthylene	617		240	30
120-12-7	Anthracene	583		50	25
56-55-3	Benzo[a]anthracene	1120		48	23
50-32-8	Benzo[a]pyrene	1280		63	31
205-99-2	Benzo[b]fluoranthene	2010		73	37
191-24-2	Benzo[g,h,i]perylene	1370		120	26
207-08-9	Benzo[k]fluoranthene	1150		48	22
218-01-9	Chrysene	1240		54	27
53-70-3	Dibenz(a,h)anthracene	768		120	25
206-44-0	Fluoranthene	1280		120	24
86-73-7	Fluorene	671		120	25
193-39-5	Indeno[1,2,3-cd]pyrene	1110		120	43
90-12-0	1-Methylnaphthalene	781		240	26
91-57-6	2-Methylnaphthalene	690		240	43
91-20-3	Naphthalene	865		240	26
85-01-8	Phenanthrene	870		48	23
129-00-0	Pyrene	1240		120	22

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27009.D
 Lab Smp Id: 680-88592-a-19-b ms
 Inj Date : 27-MAR-2013 12:39
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-19-b ms
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 9 QC Sample: MS
 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	15.020	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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	788710	40.0000	
* 6 Acenaphthene-d10	164		4.815	4.815	(1.000)	620741	40.0000	
* 10 Phenanthrene-d10	188		5.762	5.762	(1.000)	1191395	40.0000	
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	24672	1.37158	365.2672
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1439736	40.0000	
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1443512	40.0000	
2 Naphthalene	128		3.739	3.739	(1.003)	44317	2.15832	574.7855
3 2-Methylnaphthalene	142		4.168	4.168	(1.118)	23574	1.72117	458.3681
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	24298	1.94786	518.7371
5 Acenaphthylene	152		4.727	4.727	(0.982)	38530	1.53958	410.0076
7 Acenaphthene	154		4.833	4.833	(1.004)	26426	1.69885	452.4224
9 Fluorene	166		5.157	5.157	(1.071)	32951	1.67498	446.0668
11 Phenanthrene	178		5.780	5.780	(1.003)	74827	2.17205	578.4431
12 Anthracene	178		5.815	5.815	(1.009)	49011	1.45469	387.4001

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921	(1.028)	46442	1.55067	412.9614
15 Fluoranthene	202	6.615	6.615	(1.148)	120164	3.18511	848.2320
16 Pyrene	202	6.780	6.786	(0.880)	119597	3.09109	823.1940
17 Benzo(a)anthracene	228	7.698	7.698	(0.999)	116271	2.79810	745.1662
19 Chrysene	228	7.721	7.727	(1.002)	128319	3.08572	821.7631
20 Benzo(b)fluoranthene	252	8.539	8.539	(0.961)	189312	5.01830	1336.4312(R)
21 Benzo(k)fluoranthene	252	8.562	8.562	(0.964)	111147	2.87207	764.8646
22 Benzo(a)pyrene	252	8.827	8.833	(0.993)	117340	3.20228	852.8032
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.050	(1.130)	95285	2.76426	736.1534(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.068	(1.132)	64622	1.91661	510.4144
26 Benzo(g,h,i)perylene	276	10.392	10.397	(1.169)	123136	3.41485	909.4153(R)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1CC27009.D

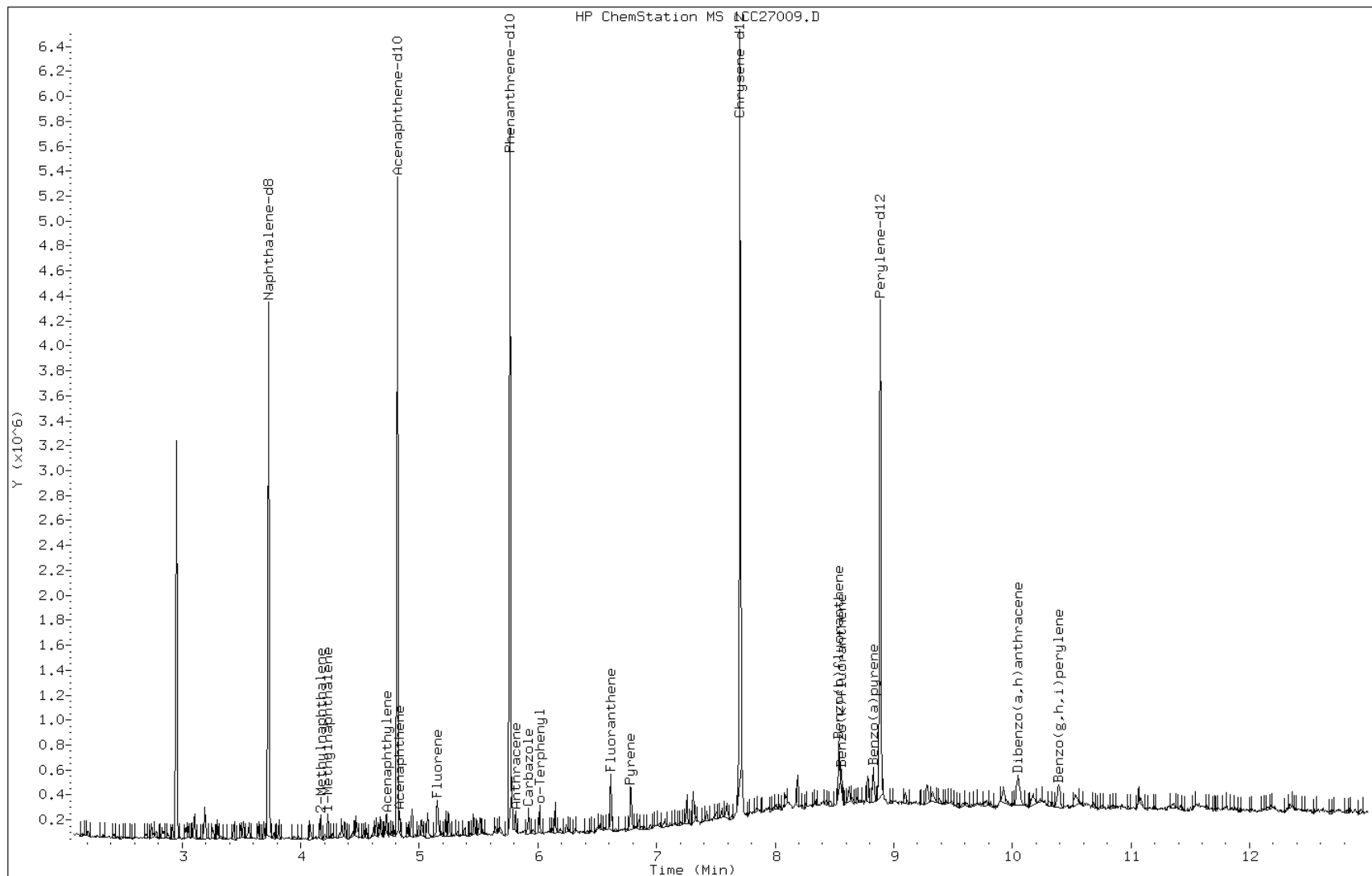
Date: 27-MAR-2013 12:39

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-b ms

Operator: SCC

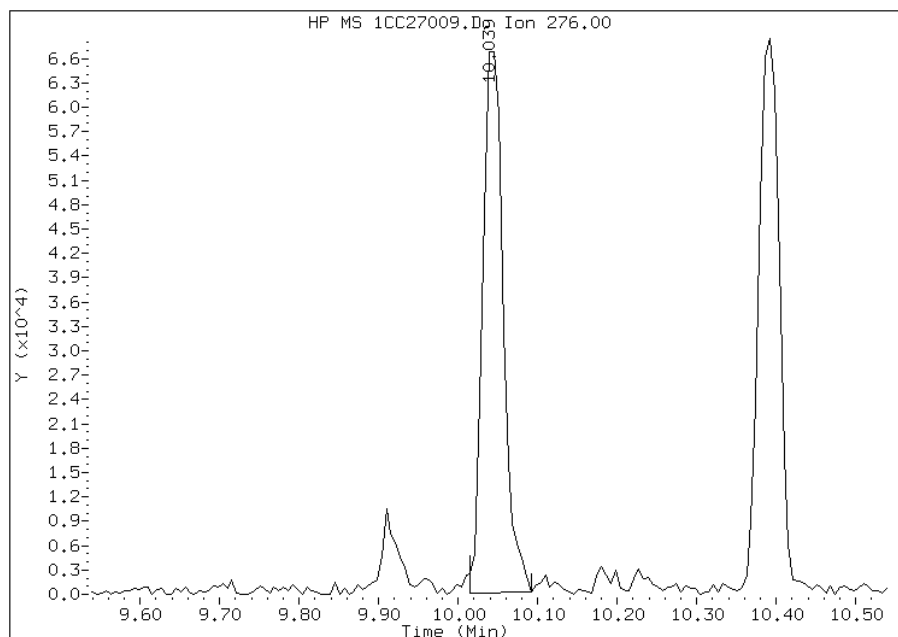


Manual Integration Report

Data File: 1CC27009.D
Inj. Date and Time: 27-MAR-2013 12:39
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/27/2013

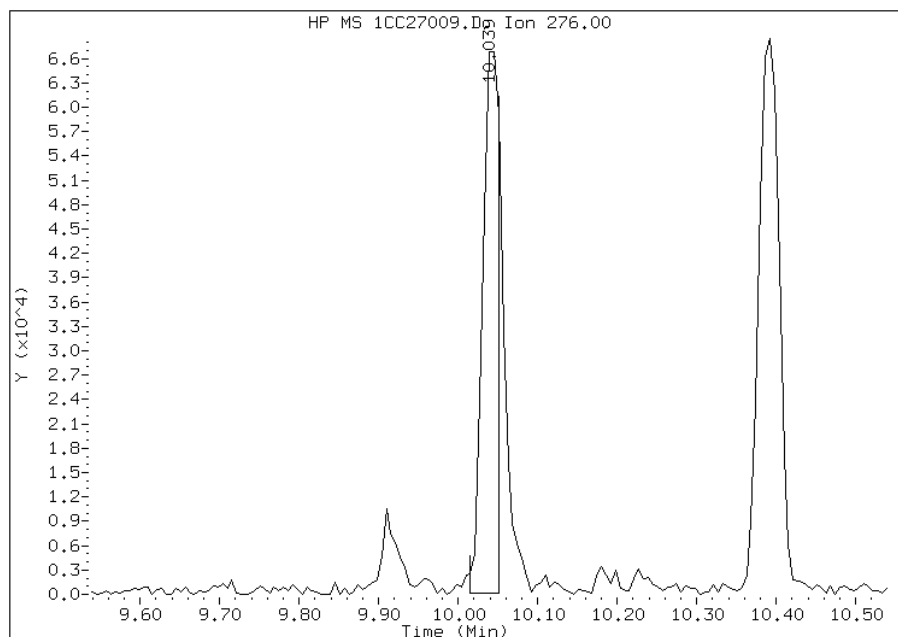
Processing Integration Results

RT: 10.04
Response: 119649
Amount: 3
Conc: 924



Manual Integration Results

RT: 10.04
Response: 95285
Amount: 3
Conc: 736



Manually Integrated By: cantins
Modification Date: 27-Mar-2013 13:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: _____ Lab Sample ID: 680-88527-A-21-C MSD
 Matrix: Solid Lab File ID: 1CC28016.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/25/2013 16:58
 Sample wt/vol: 15.19(g) Date Analyzed: 03/28/2013 15:59
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 40.3 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135902 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	828		170	33
208-96-8	Acenaphthylene	888		66	8.3
120-12-7	Anthracene	930		14	6.9
56-55-3	Benzo[a]anthracene	1110		13	6.4
50-32-8	Benzo[a]pyrene	984		17	8.6
205-99-2	Benzo[b]fluoranthene	1120		20	10
191-24-2	Benzo[g,h,i]perylene	943		33	7.3
207-08-9	Benzo[k]fluoranthene	1060		13	6.0
218-01-9	Chrysene	935		15	7.4
53-70-3	Dibenz(a,h)anthracene	899		33	6.8
206-44-0	Fluoranthene	1180		33	6.6
86-73-7	Fluorene	911		33	6.8
193-39-5	Indeno[1,2,3-cd]pyrene	965		33	12
90-12-0	1-Methylnaphthalene	995		66	7.3
91-57-6	2-Methylnaphthalene	928		66	12
91-20-3	Naphthalene	967		66	7.3
85-01-8	Phenanthrene	1030		13	6.4
129-00-0	Pyrene	1250		33	6.1

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\1CC28016.D
 Lab Smp Id: 680-88527-a-21-c ms
 Inj Date : 28-MAR-2013 15:59
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88527-a-21-c msd
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032813.b\a-bFASTPAHi-m.m
 Meth Date : 28-Mar-2013 12:15 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 16 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	15.190	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136			3.721	3.722	(1.000)	774119	40.0000	
* 6 Acenaphthene-d10	164			4.810	4.810	(1.000)	632579	40.0000	
* 10 Phenanthrene-d10	188			5.757	5.763	(1.000)	1127385	40.0000	
\$ 14 o-Terphenyl	230			6.010	6.010	(1.044)	127467	7.48855	492.9919
* 18 Chrysene-d12	240			7.704	7.704	(1.000)	1291838	40.0000	
* 23 Perylene-d12	264			8.880	8.886	(1.000)	1252337	40.0000	
2 Naphthalene	128			3.733	3.733	(1.003)	176821	8.77382	577.6052
3 2-Methylnaphthalene	142			4.163	4.163	(1.119)	113182	8.41934	554.2685
4 1-Methylnaphthalene	142			4.221	4.222	(1.134)	110502	9.02540	594.1672
5 Acenaphthylene	152			4.721	4.722	(0.982)	205365	8.05239	530.1114
7 Acenaphthene	154			4.833	4.833	(1.005)	119080	7.51203	494.5376
9 Fluorene	166			5.151	5.151	(1.071)	165603	8.26048	543.8102
11 Phenanthrene	178			5.774	5.774	(1.003)	303459	9.30885	612.8272
12 Anthracene	178			5.810	5.810	(1.009)	268885	8.43386	555.2243

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.915	5.921	(1.028)	242517	8.55725	563.3476
15 Fluoranthene	202	6.610	6.616	(1.148)	382036	10.7013	704.4988
16 Pyrene	202	6.780	6.780	(0.880)	393877	11.3456	746.9121
17 Benzo(a)anthracene	228	7.692	7.698	(0.998)	376216	10.0903	664.2721
19 Chrysene	228	7.721	7.721	(1.002)	316604	8.48510	558.5976
20 Benzo(b)fluoranthene	252	8.533	8.539	(0.961)	334028	10.2061	671.8969
21 Benzo(k)fluoranthene	252	8.556	8.562	(0.964)	323663	9.64027	634.6455
22 Benzo(a)pyrene	252	8.827	8.827	(0.994)	283762	8.92619	587.6359
24 Indeno(1,2,3-cd)pyrene	276	10.039	10.045	(1.130)	261902	8.75773	576.5460(M)
25 Dibenzo(a,h)anthracene	278	10.056	10.062	(1.132)	238488	8.15301	536.7356
26 Benzo(g,h,i)perylene	276	10.386	10.398	(1.170)	267694	8.55707	563.3356

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC28016.D

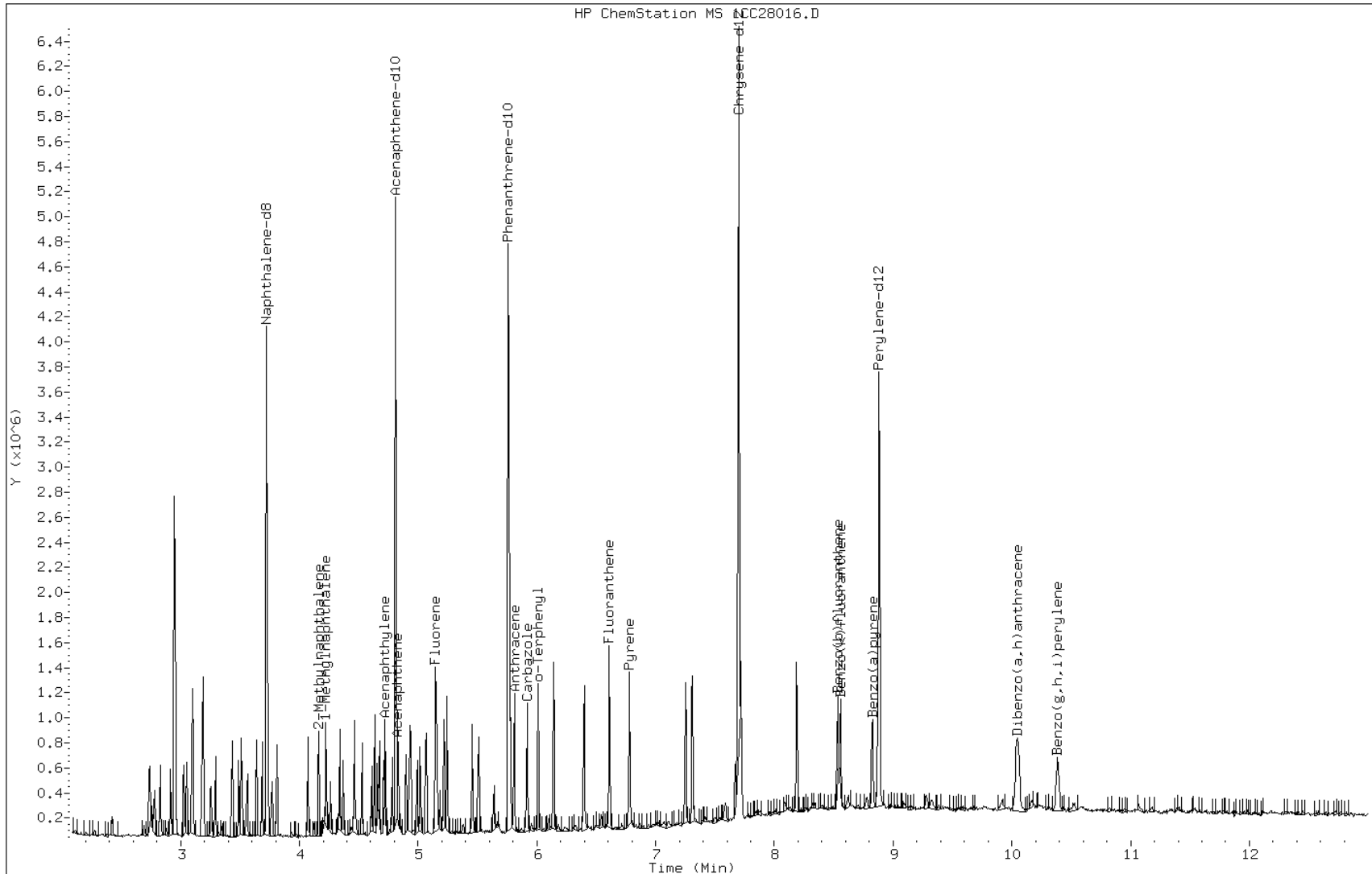
Date: 28-MAR-2013 15:59

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88527-a-21-c msd

Operator: SCC

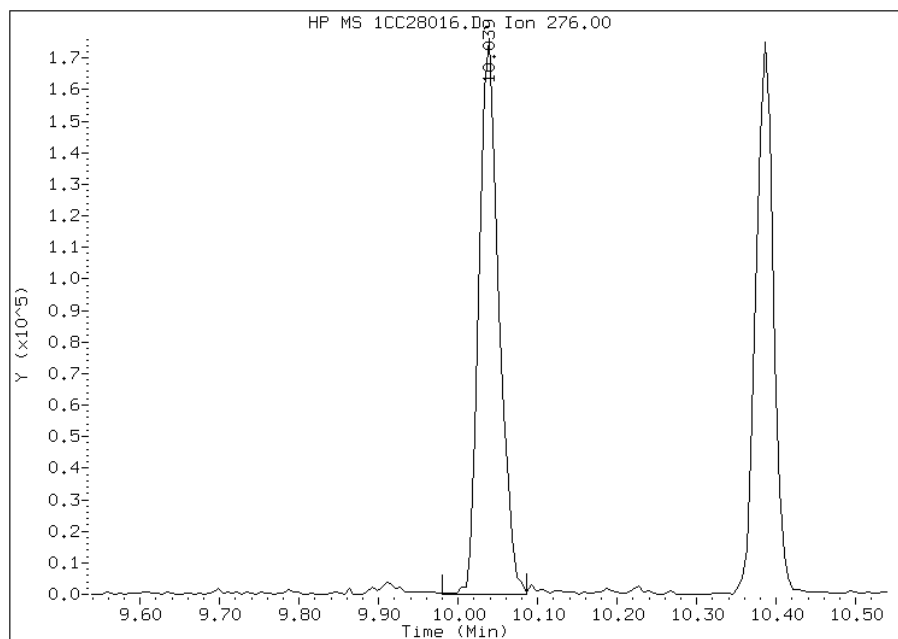


Manual Integration Report

Data File: 1CC28016.D
Inj. Date and Time: 28-MAR-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/28/2013

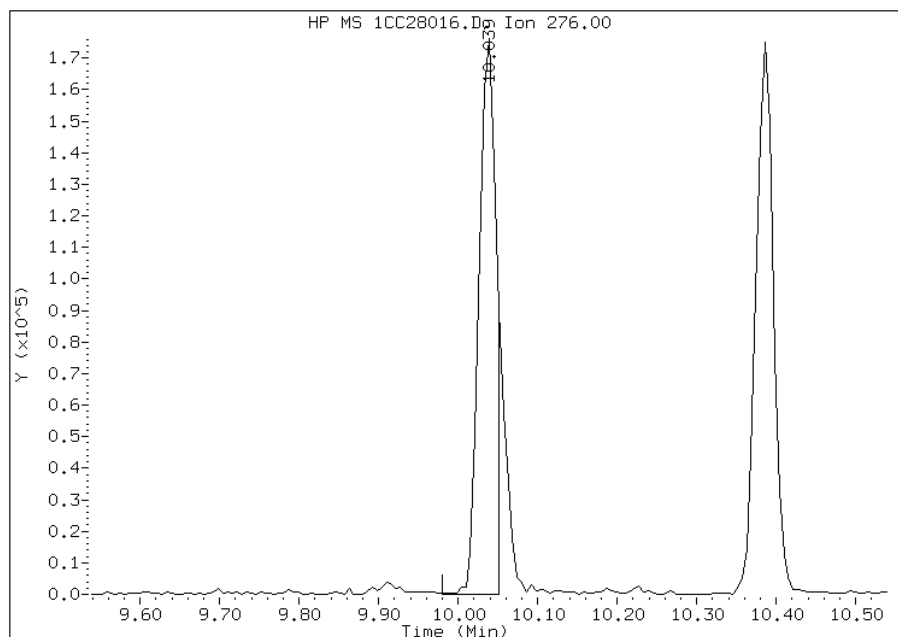
Processing Integration Results

RT: 10.04
Response: 304631
Amount: 10
Conc: 671



Manual Integration Results

RT: 10.04
Response: 261902
Amount: 9
Conc: 577



Manually Integrated By: cantins
Modification Date: 28-Mar-2013 17:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1
 SDG No.: 68088592-1
 Client Sample ID: CV1156B-CS MSD Lab Sample ID: 680-88592-19 MSD
 Matrix: Solid Lab File ID: 1CC27010.D
 Analysis Method: 8270C LL Date Collected: 03/20/2013 13:45
 Extract. Method: 3546 Date Extracted: 03/26/2013 16:07
 Sample wt/vol: 15.02(g) Date Analyzed: 03/27/2013 12:57
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 33.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135830 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	616		600	120
208-96-8	Acenaphthylene	693		240	30
120-12-7	Anthracene	763		50	25
56-55-3	Benzo[a]anthracene	1550		48	23
50-32-8	Benzo[a]pyrene	1700		63	31
205-99-2	Benzo[b]fluoranthene	3480		73	37
191-24-2	Benzo[g,h,i]perylene	1900		120	26
207-08-9	Benzo[k]fluoranthene	1420		48	22
218-01-9	Chrysene	1760		54	27
53-70-3	Dibenz(a,h)anthracene	1010		120	25
206-44-0	Fluoranthene	1780		120	24
86-73-7	Fluorene	829		120	25
193-39-5	Indeno[1,2,3-cd]pyrene	1740		120	43
90-12-0	1-Methylnaphthalene	882		240	26
91-57-6	2-Methylnaphthalene	985		240	43
91-20-3	Naphthalene	946		240	26
85-01-8	Phenanthrene	1170		48	23
129-00-0	Pyrene	1580		120	22

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\1CC27010.D
 Lab Smp Id: 680-88592-a-19-c ms
 Inj Date : 27-MAR-2013 12:57
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88592-a-19-c msd
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032713.b\a-bFASTPAHi-m.m
 Meth Date : 27-Mar-2013 10:49 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 10 QC Sample: MSD
 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	15.020	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		3.727	3.727	(1.000)	715305	40.0000		
* 6 Acenaphthene-d10	164		4.816	4.815	(1.000)	593203	40.0000		
* 10 Phenanthrene-d10	188		5.763	5.762	(1.000)	1086522	40.0000		
\$ 14 o-Terphenyl	230		6.015	6.015	(1.044)	28340	1.72756	460.0695	
* 18 Chrysene-d12	240		7.704	7.704	(1.000)	1295155	40.0000		
* 23 Perylene-d12	264		8.886	8.886	(1.000)	1276318	40.0000		
2 Naphthalene	128		3.739	3.739	(1.003)	43947	2.35994	628.4790	
3 2-Methylnaphthalene	142		4.169	4.168	(1.118)	30517	2.45674	654.2580	
4 1-Methylnaphthalene	142		4.227	4.227	(1.134)	24908	2.20167	586.3295	
5 Acenaphthylene	152		4.727	4.727	(0.982)	41382	1.73030	460.7990	
7 Acenaphthene	154		4.833	4.833	(1.004)	22844	1.53675	409.2530	
9 Fluorene	166		5.157	5.157	(1.071)	38879	2.06806	550.7488	
11 Phenanthrene	178		5.780	5.780	(1.003)	91857	2.92376	778.6312	
12 Anthracene	178		5.815	5.815	(1.009)	58486	1.90347	506.9153	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.921	5.921 (1.028)		52790	1.93276	514.7158
15 Fluoranthene	202	6.615	6.615 (1.148)		152697	4.43811	1181.9199(R)
16 Pyrene	202	6.780	6.786 (0.880)		137518	3.95105	1052.2104(R)
17 Benzo(a)anthracene	228	7.698	7.698 (0.999)		144414	3.86333	1028.8503(R)
19 Chrysene	228	7.721	7.727 (1.002)		164193	4.38916	1168.8840(R)
20 Benzo(b)fluoranthene	252	8.539	8.539 (0.961)		289529	8.68025	2311.6498(R)
21 Benzo(k)fluoranthene	252	8.562	8.562 (0.964)		120811	3.53073	940.2748(R)
22 Benzo(a)pyrene	252	8.833	8.833 (0.994)		137173	4.23392	1127.5423(R)
24 Indeno(1,2,3-cd)pyrene	276	10.045	10.050 (1.130)		132403	4.34423	1156.9195(RM)
25 Dibenzo(a,h)anthracene	278	10.062	10.068 (1.132)		75035	2.51697	670.2980
26 Benzo(g,h,i)perylene	276	10.392	10.397 (1.169)		151066	4.73822	1261.8434(R)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1CC27010.D

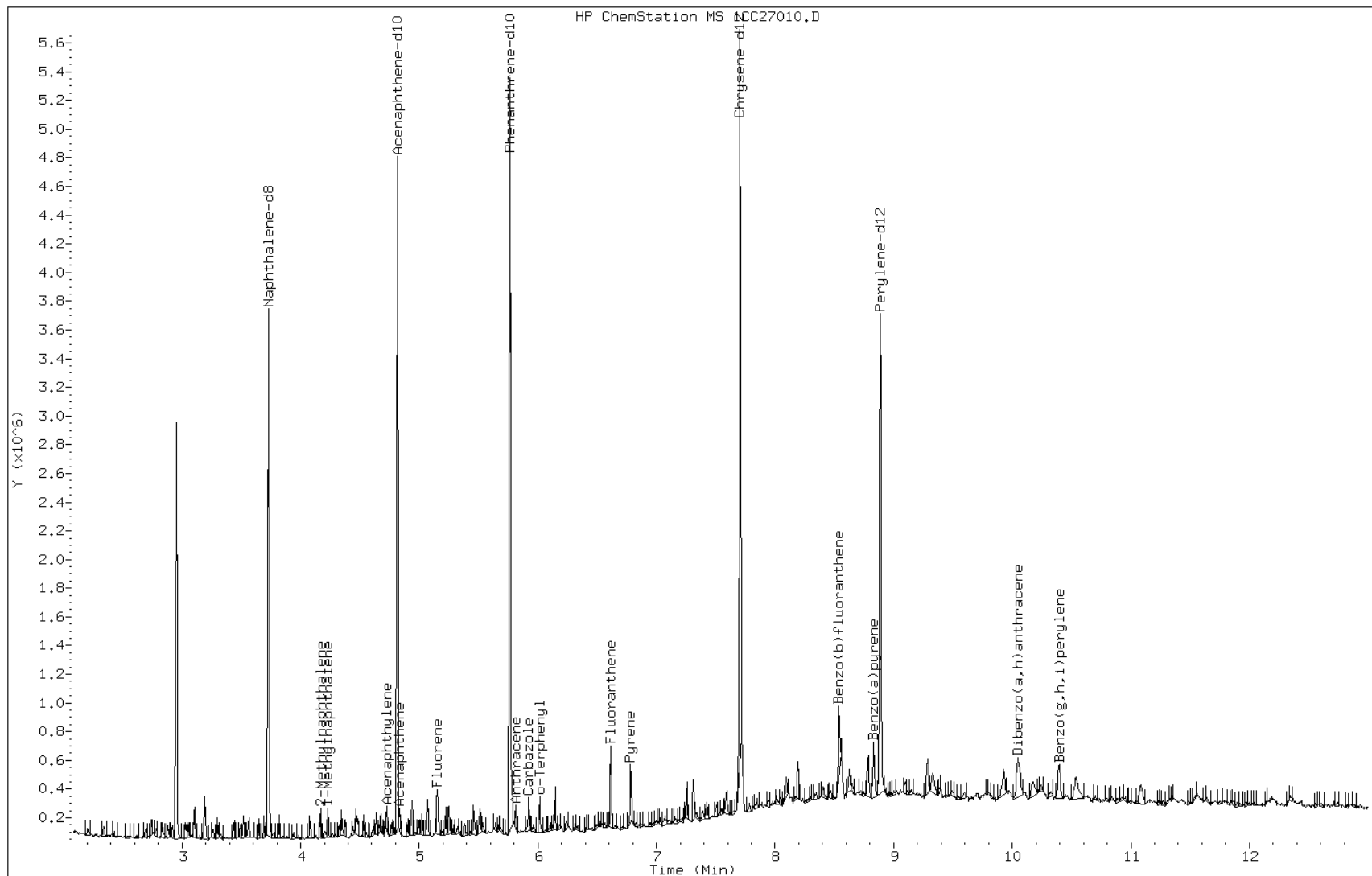
Date: 27-MAR-2013 12:57

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-88592-a-19-c msd

Operator: SCC

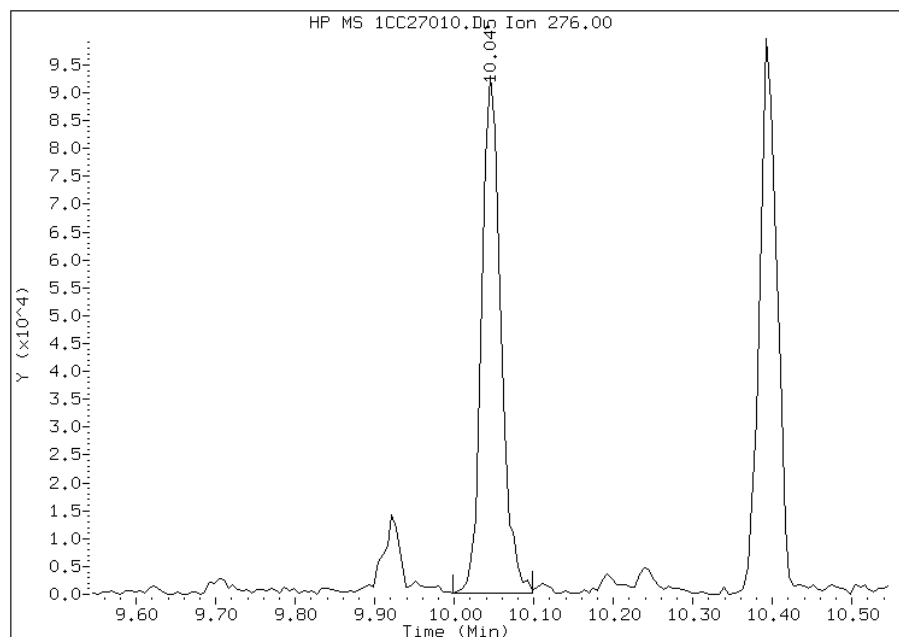


Manual Integration Report

Data File: 1CC27010.D
Inj. Date and Time: 27-MAR-2013 12:57
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/27/2013

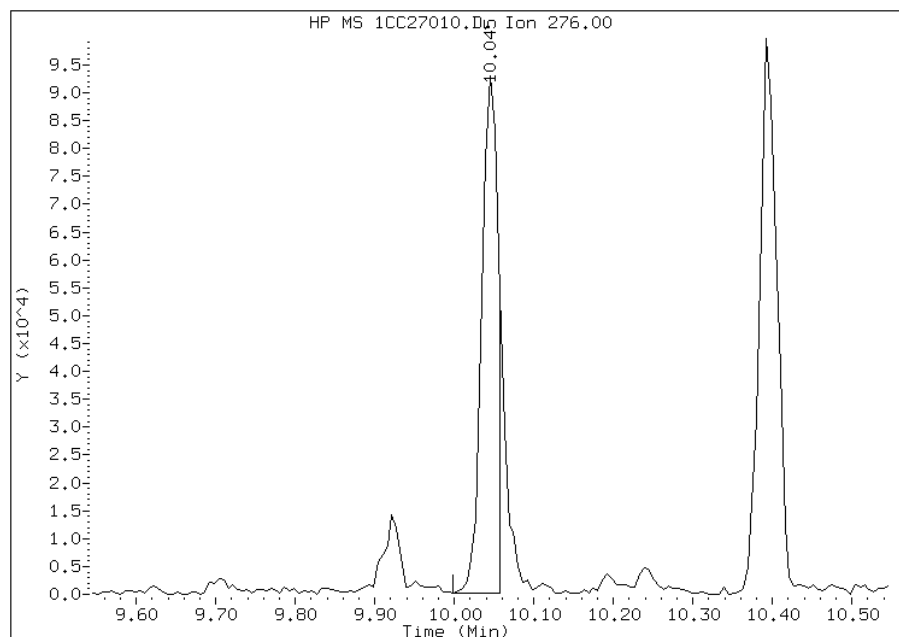
Processing Integration Results

RT: 10.05
Response: 154419
Amount: 5
Conc: 1349



Manual Integration Results

RT: 10.05
Response: 132403
Amount: 4
Conc: 1157



Manually Integrated By: cantins
Modification Date: 27-Mar-2013 13:35
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88592-1SDG No.: 68088592-1Instrument 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)
DFTPP 660-134776/2		02/22/2013 11:41	1	1CB22002.D	DB-5MS 250 (um)
IC 660-134776/3		02/22/2013 11:57	1	1CB22003.D	DB-5MS 250 (um)
IC 660-134776/4		02/22/2013 12:16	1	1CB22004.D	DB-5MS 250 (um)
IC 660-134776/5		02/22/2013 12:34	1	1CB22005.D	DB-5MS 250 (um)
IC 660-134776/6		02/22/2013 12:53	1	1CB22006.D	DB-5MS 250 (um)
ICIS 660-134776/7		02/22/2013 13:11	1	1CB22007.D	DB-5MS 250 (um)
IC 660-134776/8		02/22/2013 13:29	1	1CB22008.D	DB-5MS 250 (um)
IC 660-134776/9		02/22/2013 13:48	1	1CB22009.D	DB-5MS 250 (um)
ICV 660-134776/10		02/22/2013 14:06	1	1CB22010.D	DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:26	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 14:45	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:03	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:21	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:40	4		DB-5MS 250 (um)
ZZZZZ		02/22/2013 15:58	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:16	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:34	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 16:53	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:11	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:29	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 17:48	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:06	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:24	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 18:43	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:01	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:19	1		DB-5MS 250 (um)
ZZZZZ		02/22/2013 19:38	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88592-1SDG No.: 68088592-1Instrument ID: BSMC5973Start Date: 03/27/2013 09:41Analysis Batch Number: 135830End Date: 03/27/2013 20:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/27/2013 09:41	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 09:59	1		DB-5MS 250 (um)
DFTPP 660-135830/2		03/27/2013 10:18	1	1CC27002.D	DB-5MS 250 (um)
CCVIS 660-135830/3		03/27/2013 10:35	1	1CC27003.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 10:53	1		DB-5MS 250 (um)
MB 660-135800/1-A		03/27/2013 11:26	1	1CC27005.D	DB-5MS 250 (um)
LCS 660-135800/2-A		03/27/2013 11:44	1	1CC27006.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 12:02	1		DB-5MS 250 (um)
680-88592-19	CV1156B-CS	03/27/2013 12:20	4	1CC27008.D	DB-5MS 250 (um)
680-88592-19 MS	CV1156B-CS MS	03/27/2013 12:39	4	1CC27009.D	DB-5MS 250 (um)
680-88592-19 MSD	CV1156B-CS MSD	03/27/2013 12:57	4	1CC27010.D	DB-5MS 250 (um)
680-88592-10	CV1360CC-CS	03/27/2013 13:15	1	1CC27011.D	DB-5MS 250 (um)
680-88592-17	CV0862B-CS	03/27/2013 13:34	1	1CC27012.D	DB-5MS 250 (um)
680-88592-18	CV1156A-CS	03/27/2013 13:52	4	1CC27013.D	DB-5MS 250 (um)
680-88592-20	CV1240A-CS	03/27/2013 14:11	4	1CC27014.D	DB-5MS 250 (um)
ZZZZZ		03/27/2013 14:29	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 14:47	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 15:05	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 15:24	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 15:42	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:00	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:18	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:37	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 16:55	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 17:13	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 17:31	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 17:49	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 18:08	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 18:26	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 18:44	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:03	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:21	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:39	4		DB-5MS 250 (um)
ZZZZZ		03/27/2013 19:58	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 20:16	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 20:34	1		DB-5MS 250 (um)
ZZZZZ		03/27/2013 20:53	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88592-1SDG No.: 68088592-1Instrument ID: BSMC5973Start Date: 03/28/2013 11:06Analysis Batch Number: 135902End Date: 03/28/2013 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		03/28/2013 11:06	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 11:24	1		DB-5MS 250 (um)
DFTPP 660-135902/2		03/28/2013 11:42	1	1CC28002.D	DB-5MS 250 (um)
CCVIS 660-135902/3		03/28/2013 11:59	1	1CC28003.D	DB-5MS 250 (um)
ZZZZZ		03/28/2013 12:20	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 12:38	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 12:56	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:14	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:33	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 13:51	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 14:10	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 14:28	1		DB-5MS 250 (um)
MB 660-135754/1-A		03/28/2013 14:46	1	1CC28012.D	DB-5MS 250 (um)
LCS 660-135754/2-A		03/28/2013 15:04	1	1CC28013.D	DB-5MS 250 (um)
ZZZZZ		03/28/2013 15:23	1		DB-5MS 250 (um)
680-88527-A-21-B MS		03/28/2013 15:41	1	1CC28015.D	DB-5MS 250 (um)
680-88527-A-21-C MSD		03/28/2013 15:59	1	1CC28016.D	DB-5MS 250 (um)
ZZZZZ		03/28/2013 16:18	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 16:36	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 16:54	1		DB-5MS 250 (um)
680-88592-1	CV1360U-CS	03/28/2013 17:12	4	1CC28020.D	DB-5MS 250 (um)
680-88592-2	CV1360V-CS	03/28/2013 17:31	4	1CC28021.D	DB-5MS 250 (um)
680-88592-3	CV1360V-CSD	03/28/2013 17:49	4	1CC28022.D	DB-5MS 250 (um)
680-88592-4	CV1360W-CS	03/28/2013 18:08	1	1CC28023.D	DB-5MS 250 (um)
680-88592-5	CV1360X-CS	03/28/2013 18:26	1	1CC28024.D	DB-5MS 250 (um)
680-88592-6	CV1360Y-CS	03/28/2013 18:44	1	1CC28025.D	DB-5MS 250 (um)
680-88592-7	CV1360Z-CS	03/28/2013 19:03	1	1CC28026.D	DB-5MS 250 (um)
680-88592-8	CV1360AA-CS	03/28/2013 19:21	4	1CC28027.D	DB-5MS 250 (um)
680-88592-9	CV1360BB-CS	03/28/2013 19:39	4	1CC28028.D	DB-5MS 250 (um)
680-88592-11	CV1328A-CS	03/28/2013 19:57	4	1CC28029.D	DB-5MS 250 (um)
680-88592-12	CV1328B-CS	03/28/2013 20:16	4	1CC28030.D	DB-5MS 250 (um)
680-88592-13	CV0101A-CS	03/28/2013 20:34	1	1CC28031.D	DB-5MS 250 (um)
680-88592-14	CV0715A-CS	03/28/2013 20:52	1	1CC28032.D	DB-5MS 250 (um)
680-88592-15	CV0715A-CSD	03/28/2013 21:11	1	1CC28033.D	DB-5MS 250 (um)
680-88592-16	CV0862A-CS	03/28/2013 21:29	4	1CC28034.D	DB-5MS 250 (um)
ZZZZZ		03/28/2013 21:47	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 22:06	4		DB-5MS 250 (um)
ZZZZZ		03/28/2013 22:24	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 22:42	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 23:00	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 23:19	1		DB-5MS 250 (um)
ZZZZZ		03/28/2013 23:37	1		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-88592-1SDG No.: 68088592-1Instrument 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)
DFTPP 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)
680-88592-6 DL	CV1360Y-CS DL	04/01/2013 14:33	4	1CD01012.D	DB-5MS 250 (um)
ZZZZZ		04/01/2013 14:52	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 15:10	1		DB-5MS 250 (um)
ZZZZZ		04/01/2013 15:28	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 15:47	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 16:05	4		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)
ZZZZZ		04/01/2013 21:16	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 21:34	4		DB-5MS 250 (um)
ZZZZZ		04/01/2013 21:53	1		DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Batch Number: 135754 Batch Start Date: 03/25/13 16:58 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/26/13 14:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-135754/1		3546, 8270C LL		15.00 g	1 mL		1 mL		
LCS 660-135754/2		3546, 8270C LL		15.31 g	1 mL	1 mL	1 mL		
680-88527-A-21 MS		3546, 8270C LL	T	15.21 g	1 mL	1 mL	1 mL		
680-88527-A-21 MSD		3546, 8270C LL	T	15.19 g	1 mL	1 mL	1 mL		
680-88592-A-1	CV1360U-CS	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-88592-A-2	CV1360V-CS	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-88592-A-3	CV1360V-CSD	3546, 8270C LL	T	14.94 g	1 mL		1 mL		
680-88592-A-4	CV1360W-CS	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-88592-A-5	CV1360X-CS	3546, 8270C LL	T	15.23 g	1 mL		1 mL		
680-88592-A-6	CV1360Y-CS	3546, 8270C LL	T	15.34 g	1 mL		1 mL		
680-88592-A-7	CV1360Z-CS	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-88592-A-8	CV1360AA-CS	3546, 8270C LL	T	15.38 g	1 mL		1 mL		
680-88592-A-9	CV1360BB-CS	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-88592-A-11	CV1328A-CS	3546, 8270C LL	T	15.22 g	1 mL		1 mL		
680-88592-A-12	CV1328B-CS	3546, 8270C LL	T	15.41 g	1 mL		1 mL		
680-88592-A-13	CV0101A-CS	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-88592-A-14	CV0715A-CS	3546, 8270C LL	T	15.39 g	1 mL		1 mL		
680-88592-A-15	CV0715A-CSD	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-88592-A-16	CV0862A-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Batch Number: 135754 Batch Start Date: 03/25/13 16:58 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 03/26/13 14:30

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-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	EX-DCM/ACETON 51
Microwave Start Time	18:00 3/25/13
Microwave Stop Time	18:35 3/25/13
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	RN
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 stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Batch Number: 135800 Batch Start Date: 03/26/13 16:07 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/03/13 09:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00020	EXLLSURINT 00178		
MB 660-135800/1		3546, 8270C LL		15.02 g	1 mL		1 mL		
LCS 660-135800/2		3546, 8270C LL		14.93 g	1 mL	1 mL	1 mL		
680-88592-A-10	CV1360CC-CS	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-88592-A-17	CV0862B-CS	3546, 8270C LL	T	15.28 g	1 mL		1 mL		
680-88592-A-18	CV1156A-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL		
680-88592-A-19	CV1156B-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL		
680-88592-A-19 MS	CV1156B-CS	3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		
680-88592-A-19 MSD	CV1156B-CS	3546, 8270C LL	T	15.02 g	1 mL	1 mL	1 mL		
680-88592-A-20	CV1240A-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270C LL

Page 1 of 2

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1SDG No.: 68088592-1Batch Number: 135800 Batch Start Date: 03/26/13 16:07 Batch Analyst: Cerome, SaurelBatch Method: 3546 Batch End Date: 04/03/13 09:30

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-MC CYCL 55
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 55
MeCl2/Acetone Lot #	DCM/ACETON 52
Microwave Start Time	17:40 3/26/13
Microwave Stop Time	18:15 3/26/13
Na2SO4 Lot Number	EX-NA2S04A 64
Ottawa Sand Lot #	EX-OTTOWA SAND 14
Person's name who did the prep	SAUREL
SOP Number	TP-014
Person who witnessed spiking	SELF
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 stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa

Job Number: 680-88592-1

SDG No.: 68088592-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV1360U-CS	680-88592-1
CV1360V-CS	680-88592-2
CV1360V-CSD	680-88592-3
CV1360W-CS	680-88592-4
CV1360X-CS	680-88592-5
CV1360Y-CS	680-88592-6
CV1360Z-CS	680-88592-7
CV1360AA-CS	680-88592-8
CV1360BB-CS	680-88592-9
CV1360CC-CS	680-88592-10
CV1328A-CS	680-88592-11
CV1328B-CS	680-88592-12
CV0101A-CS	680-88592-13
CV0715A-CS	680-88592-14
CV0715A-CSD	680-88592-15
CV0862A-CS	680-88592-16
CV0862B-CS	680-88592-17
CV1156A-CS	680-88592-18
CV1156B-CS	680-88592-19
CV1240A-CS	680-88592-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88592-1
SDG Number: 68088592-1
Matrix: Solid Instrument ID: Moisture
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88592-1
SDG Number: 68088592-1
Matrix: Solid Instrument ID: Moisture
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88592-1
SDG Number: 68088592-1
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-88592-1
SDG Number: 68088592-1
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-88592-1

SDG No.: 68088592-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/25/2013 12:32 End Date: 03/25/2013 12:32

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
MB 660-135737/1	1	T	12:32	X															
680-88592-7	1	T	12:32	X															
ZZZZZZ			12:32																
ZZZZZZ			12:32																
680-88592-14	1	T	12:32	X															
680-88592-9	1	T	12:32	X															
680-88592-8	1	T	12:32	X															
ZZZZZZ			12:32																
ZZZZZZ			12:32																
ZZZZZZ			12:32																
ZZZZZZ			12:32																
680-88592-A-21 MS	1	T	12:32	X															
680-88592-A-21 MSD	1	T	12:32	X															
ZZZZZZ			12:32																
680-88592-13	1	T	12:32	X															
680-88592-18	1	T	12:32	X															
680-88592-10	1	T	12:32	X															
ZZZZZZ			12:32																
680-88592-5	1	T	12:32	X															
680-88592-15	1	T	12:32	X															
ZZZZZZ			12:32																
ZZZZZZ			12:32																
ZZZZZZ			12:32																
680-88592-17	1	T	12:32	X															
ZZZZZZ			12:32																
680-88592-11	1	T	12:32	X															
680-88592-12	1	T	12:32	X															
680-88592-16	1	T	12:32	X															
680-88592-19	1	T	12:32	X															
680-88592-19 MS	1	T	12:32	X															
680-88592-19 MSD	1	T	12:32	X															
680-88592-6	1	T	12:32	X															
680-88592-20	1	T	12:32	X															

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1

SDG No.: 68088592-1

Batch Number: 135737 Batch Start Date: 03/25/13 12:32 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: 03/26/13 06:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-135737/1		Moisture		mb	0 g	8.17 g	8.15 g		
680-88592-A-7	CV1360Z-CS	Moisture	T	1	0 g	4.49 g	3.45 g		
680-88592-A-14	CV0715A-CS	Moisture	T	4	0 g	4.35 g	3.54 g		
680-88592-A-9	CV1360BB-CS	Moisture	T	5	0 g	4.49 g	3.12 g		
680-88592-A-8	CV1360AA-CS	Moisture	T	6	0 g	4.81 g	3.83 g		
680-88592-A-21 MS		Moisture	T	10	0 g	5.04 g	3.99 g		
680-88592-A-21 MSD		Moisture	T	10	0 g	5.04 g	3.99 g		
680-88592-A-13	CV0101A-CS	Moisture	T	12	0 g	4.26 g	2.60 g		
680-88592-A-18	CV1156A-CS	Moisture	T	13	0 g	4.63 g	3.30 g		
680-88592-A-10	CV1360CC-CS	Moisture	T	14	0 g	4.51 g	3.44 g		
680-88592-A-5	CV1360X-CS	Moisture	T	16	0 g	4.88 g	3.25 g		
680-88592-A-15	CV0715A-CSD	Moisture	T	17	0 g	4.39 g	3.21 g		
680-88592-A-17	CV0862B-CS	Moisture	T	21	0 g	4.41 g	2.99 g		
680-88592-A-11	CV1328A-CS	Moisture	T	23	0 g	4.49 g	3.61 g		
680-88592-A-12	CV1328B-CS	Moisture	T	24	0 g	5.55 g	4.23 g		
680-88592-A-16	CV0862A-CS	Moisture	T	25	0 g	4.68 g	3.60 g		
680-88592-A-19	CV1156B-CS	Moisture	T	26	0 g	4.62 g	3.07 g		
680-88592-A-19 MS	CV1156B-CS	Moisture	T	26	0 g	4.62 g	3.07 g		
680-88592-A-19 MSD	CV1156B-CS	Moisture	T	26	0 g	4.62 g	3.07 g		
680-88592-A-6	CV1360Y-CS	Moisture	T	27	0 g	5.04 g	3.46 g		
680-88592-A-20	CV1240A-CS	Moisture	T	28	0 g	4.50 g	3.43 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	3.25.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-88592-1

SDG No.: 68088592-1

Batch Number: 135743 Batch Start Date: 03/25/13 07:06 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-135743/1		Moisture		0 g	10.054 g	9.009 g			
680-88592-A-1	CV1360U-CS	Moisture	T	0 g	4.226 g	3.074 g			
680-88592-A-2	CV1360V-CS	Moisture	T	0 g	4.767 g	3.73 g			
680-88592-A-3	CV1360V-CSD	Moisture	T	0 g	4.486 g	3.372 g			
680-88592-A-4	CV1360W-CS	Moisture	T	0 g	4.127 g	2.512 g			
LCSD 660-135743/22		Moisture		0 g	10.046 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 stated concentration for 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

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Alternate Laboratory Name/Location

Phone:
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PROJECT REFERENCE <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>2</i>	OF <i>3</i>
TAL (LAB) PROJECT MANAGER <i>Lisa Harvey</i>	P.O. NUMBER	CONTRACT NO.	DATE		STANDARD REPORT DELIVERY <i>0</i>	DATE DUE _____

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)	COMPOSITE (C) O AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PAH PCRA & Metals	PRESERVATIVE	EXPEDITED REPORT DELIVERY (SURCHARGE) <i>0</i>	DATE DUE _____
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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) O	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED								REMARKS	
DATE	TIME							1	2	3	4	5	6	7	8		9
3-20-13	0815 0810	CV0701A-CS	C	X			X										
	1220	CV0715A-CS	C	X													
	1320	CV0715A-CSD	C	X													
	1300	CV0862A-CS	C	X													
	1315	CV0862B-CS	C	X													
	1325	CV1156A-CS	C	X													
	1345	CV1156B-CS	C	X			X										
	1450	CV1240A-CS	C	X													
	1400	CV1323A-GS	G	X													
	1410	CV1323B-GS	G	X													
	1415	CV1323C-GS	G	X													
	1420	CV1323D-GS	G	X													

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-21-13	TIME 1500	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/22/13	TIME 0939	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>650-88592</i>	LABORATORY REMARKS <i>1.6C</i>
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Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-1

SDG Number: 68088592-1

Login Number: 88592
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-1

SDG Number: 68088592-1

Login Number: 88592

List Source: TestAmerica Tampa

List Number: 1

List Creation: 03/23/13 11:04 AM

Creator: Edwards, Erricka

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?	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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-88592-1

TestAmerica Sample Delivery Group: 68088592-1

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

4/3/2013 11:43:37 AM

Bernard Kirkland

Project Manager I

bernard.kirkland@testamericainc.com

Designee for

Lisa Harvey

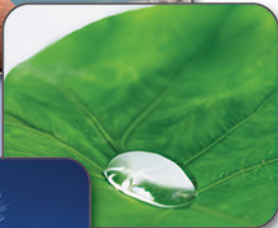
Project Manager II

lisa.harvey@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

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

TestAmerica Job ID: 680-88592-1
SDG: 68088592-1

Job ID: 680-88592-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-88592-1

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

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

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

RECEIPT

The samples were received on 03/22/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1360U-CS (680-88592-1), CV1360V-CS (680-88592-2), CV1360V-CSD (680-88592-3), CV1360W-CS (680-88592-4), CV1360X-CS (680-88592-5), CV1360Y-CS (680-88592-6), CV1360Z-CS (680-88592-7), CV1360AA-CS (680-88592-8), CV1360BB-CS (680-88592-9), CV1360CC-CS (680-88592-10), CV1328A-CS (680-88592-11), CV1328B-CS (680-88592-12), CV0101A-CS (680-88592-13), CV0715A-CS (680-88592-14), CV0715A-CSD (680-88592-15), CV0862A-CS (680-88592-16), CV0862B-CS (680-88592-17), CV1156A-CS (680-88592-18), CV1156B-CS (680-88592-19) and CV1240A-CS (680-88592-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 03/25/2013 and 03/26/2013 and analyzed on 03/27/2013, 03/28/2013 and 04/01/2013.

Samples CV1360U-CS (680-88592-1)[4X], CV1360V-CS (680-88592-2)[4X], CV1360V-CSD (680-88592-3)[4X], CV1360Y-CS (680-88592-6)[4X], CV1360AA-CS (680-88592-8)[4X], CV1360BB-CS (680-88592-9)[4X], CV1328A-CS (680-88592-11)[4X], CV1328B-CS (680-88592-12)[4X], CV0862A-CS (680-88592-16)[4X], CV1156A-CS (680-88592-18)[4X], CV1156B-CS (680-88592-19)[4X] and CV1240A-CS (680-88592-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MSD of sample CV1156B-CS (680-88592-19) in batch 660-135830. Benzo[b]fluoranthene and Indeno[1,2,3-cd]pyrene exceeded the rpd limit.

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: 680-88592-1
SDG: 68088592-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88592-1	CV1360U-CS	Solid	03/20/13 08:20	03/22/13 09:39
680-88592-2	CV1360V-CS	Solid	03/20/13 08:30	03/22/13 09:39
680-88592-3	CV1360V-CSD	Solid	03/20/13 08:30	03/22/13 09:39
680-88592-4	CV1360W-CS	Solid	03/20/13 08:50	03/22/13 09:39
680-88592-5	CV1360X-CS	Solid	03/20/13 09:00	03/22/13 09:39
680-88592-6	CV1360Y-CS	Solid	03/20/13 09:10	03/22/13 09:39
680-88592-7	CV1360Z-CS	Solid	03/20/13 09:25	03/22/13 09:39
680-88592-8	CV1360AA-CS	Solid	03/20/13 09:50	03/22/13 09:39
680-88592-9	CV1360BB-CS	Solid	03/20/13 09:45	03/22/13 09:39
680-88592-10	CV1360CC-CS	Solid	03/20/13 09:58	03/22/13 09:39
680-88592-11	CV1328A-CS	Solid	03/20/13 09:00	03/22/13 09:39
680-88592-12	CV1328B-CS	Solid	03/20/13 09:10	03/22/13 09:39
680-88592-13	CV0101A-CS	Solid	03/20/13 08:15	03/22/13 09:39
680-88592-14	CV0715A-CS	Solid	03/20/13 12:20	03/22/13 09:39
680-88592-15	CV0715A-CSD	Solid	03/20/13 12:20	03/22/13 09:39
680-88592-16	CV0862A-CS	Solid	03/20/13 13:00	03/22/13 09:39
680-88592-17	CV0862B-CS	Solid	03/20/13 13:15	03/22/13 09:39
680-88592-18	CV1156A-CS	Solid	03/20/13 13:25	03/22/13 09:39
680-88592-19	CV1156B-CS	Solid	03/20/13 13:45	03/22/13 09:39
680-88592-20	CV1240A-CS	Solid	03/20/13 14:50	03/22/13 09:39

Method Summary

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

TestAmerica Job ID: 680-88592-1
SDG: 68088592-1

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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Definitions/Glossary

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

TestAmerica Job ID: 680-88592-1
SDG: 68088592-1

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.
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

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: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360U-CS

Lab Sample ID: 680-88592-1

Date Collected: 03/20/13 08:20

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 72.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Acenaphthylene	220	U	220	27	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Anthracene	46	U	46	23	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Benzo[a]anthracene	140		44	21	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Benzo[a]pyrene	100		57	28	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Benzo[b]fluoranthene	150		67	33	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Benzo[g,h,i]perylene	93	J	110	24	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Benzo[k]fluoranthene	58		44	20	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Chrysene	130		49	25	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Dibenz(a,h)anthracene	110	U	110	22	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Fluoranthene	160		110	22	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Fluorene	24	J	110	22	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Indeno[1,2,3-cd]pyrene	82	J	110	39	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
1-Methylnaphthalene	41	J	220	24	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
2-Methylnaphthalene	75	J	220	39	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Naphthalene	55	J	220	24	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Phenanthrene	150		44	21	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4
Pyrene	160		110	20	ug/Kg	☼	03/25/13 16:58	03/28/13 17:12	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	93		30 - 130	03/25/13 16:58	03/28/13 17:12	4

Client Sample ID: CV1360V-CS

Lab Sample ID: 680-88592-2

Date Collected: 03/20/13 08:30

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Anthracene	39	J	42	21	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Benzo[a]anthracene	240		40	20	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Benzo[a]pyrene	250		52	26	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Benzo[b]fluoranthene	420		61	31	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Benzo[g,h,i]perylene	220		100	22	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Benzo[k]fluoranthene	160		40	18	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Chrysene	270		45	23	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Dibenz(a,h)anthracene	67	J	100	21	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Fluoranthene	370		100	20	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Fluorene	100	U	100	21	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Indeno[1,2,3-cd]pyrene	170		100	36	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
1-Methylnaphthalene	34	J	200	22	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
2-Methylnaphthalene	60	J	200	36	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Naphthalene	55	J	200	22	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Phenanthrene	170		40	20	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4
Pyrene	350		100	19	ug/Kg	☼	03/25/13 16:58	03/28/13 17:31	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	85		30 - 130	03/25/13 16:58	03/28/13 17:31	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360V-CSD

Lab Sample ID: 680-88592-3

Date Collected: 03/20/13 08:30

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Acenaphthylene	210	U	210	27	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Anthracene	49		45	22	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Benzo[a]anthracene	260		43	21	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Benzo[a]pyrene	310		56	28	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Benzo[b]fluoranthene	530		65	33	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Benzo[g,h,i]perylene	230		110	24	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Benzo[k]fluoranthene	200		43	19	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Chrysene	330		48	24	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Dibenz(a,h)anthracene	68	J	110	22	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Fluoranthene	530		110	21	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Fluorene	26	J	110	22	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Indeno[1,2,3-cd]pyrene	170		110	38	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
1-Methylnaphthalene	43	J	210	24	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
2-Methylnaphthalene	91	J	210	38	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Naphthalene	83	J	210	24	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Phenanthrene	210		43	21	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Pyrene	460		110	20	ug/Kg	☼	03/25/13 16:58	03/28/13 17:49	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		30 - 130				03/25/13 16:58	03/28/13 17:49	4

Client Sample ID: CV1360W-CS

Lab Sample ID: 680-88592-4

Date Collected: 03/20/13 08:50

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 60.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	72	J	160	33	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Acenaphthylene	9.2	J	65	8.2	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Anthracene	82		14	6.9	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Benzo[a]anthracene	350		13	6.4	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Benzo[a]pyrene	320		17	8.5	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Benzo[b]fluoranthene	530		20	10	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Benzo[g,h,i]perylene	220		33	7.2	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Benzo[k]fluoranthene	230		13	5.9	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Chrysene	410		15	7.3	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Dibenz(a,h)anthracene	73		33	6.7	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Fluoranthene	840		33	6.5	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Fluorene	54		33	6.7	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Indeno[1,2,3-cd]pyrene	210		33	12	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
1-Methylnaphthalene	27	J	65	7.2	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
2-Methylnaphthalene	35	J	65	12	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Naphthalene	63	J	65	7.2	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Phenanthrene	530		13	6.4	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Pyrene	660		33	6.0	ug/Kg	☼	03/25/13 16:58	03/28/13 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130				03/25/13 16:58	03/28/13 18:08	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360X-CS

Lab Sample ID: 680-88592-5

Date Collected: 03/20/13 09:00

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 66.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	30	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Acenaphthylene	59	U	59	7.4	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Anthracene	11	J	12	6.2	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Benzo[a]anthracene	59		12	5.8	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Benzo[a]pyrene	59		15	7.7	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Benzo[b]fluoranthene	110		18	9.0	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Benzo[g,h,i]perylene	35		30	6.5	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Benzo[k]fluoranthene	25		12	5.3	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Chrysene	70		13	6.7	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Dibenz(a,h)anthracene	12	J	30	6.1	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Fluoranthene	100		30	5.9	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Fluorene	7.4	J	30	6.1	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Indeno[1,2,3-cd]pyrene	38		30	10	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
1-Methylnaphthalene	11	J	59	6.5	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
2-Methylnaphthalene	13	J	59	10	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Naphthalene	20	J	59	6.5	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Phenanthrene	59		12	5.8	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Pyrene	96		30	5.5	ug/Kg	☼	03/25/13 16:58	03/28/13 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		30 - 130				03/25/13 16:58	03/28/13 18:26	1

Client Sample ID: CV1360Y-CS

Lab Sample ID: 680-88592-6

Date Collected: 03/20/13 09:10

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 68.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	300		140	28	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Acenaphthylene	22	J	57	7.1	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Anthracene	420		12	6.0	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Benzo[a]anthracene	2100		11	5.6	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Benzo[a]pyrene	1800		15	7.4	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Benzo[b]fluoranthene	3100		17	8.7	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Benzo[g,h,i]perylene	1000		28	6.3	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Benzo[k]fluoranthene	1200		11	5.1	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Chrysene	2100		13	6.4	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Dibenz(a,h)anthracene	350		28	5.8	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Fluorene	250		28	5.8	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Indeno[1,2,3-cd]pyrene	1100		28	10	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
1-Methylnaphthalene	58		57	6.3	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
2-Methylnaphthalene	92		57	10	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Naphthalene	160		57	6.3	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Phenanthrene	2900		11	5.6	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Pyrene	3700		28	5.3	ug/Kg	☼	03/25/13 16:58	03/28/13 18:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		30 - 130				03/25/13 16:58	03/28/13 18:44	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360Y-CS

Lab Sample ID: 680-88592-6

Date Collected: 03/20/13 09:10

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 68.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	400		110	23	ug/Kg	☼	03/25/13 16:58	04/01/13 14:33	4

Client Sample ID: CV1360Z-CS

Lab Sample ID: 680-88592-7

Date Collected: 03/20/13 09:25

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	38	J	130	26	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Acenaphthylene	18	J	51	6.4	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Anthracene	88		11	5.4	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Benzo[a]anthracene	550		10	5.0	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Benzo[a]pyrene	480		13	6.7	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Benzo[b]fluoranthene	820		16	7.8	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Benzo[g,h,i]perylene	300		26	5.6	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Benzo[k]fluoranthene	280		10	4.6	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Chrysene	540		12	5.8	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Dibenz(a,h)anthracene	93		26	5.3	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Fluoranthene	1000		26	5.1	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Fluorene	44		26	5.3	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Indeno[1,2,3-cd]pyrene	290		26	9.1	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
1-Methylnaphthalene	29	J	51	5.6	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
2-Methylnaphthalene	39	J	51	9.1	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Naphthalene	39	J	51	5.6	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Phenanthrene	440		10	5.0	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1
Pyrene	870		26	4.7	ug/Kg	☼	03/25/13 16:58	03/28/13 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130	03/25/13 16:58	03/28/13 19:03	1

Client Sample ID: CV1360AA-CS

Lab Sample ID: 680-88592-8

Date Collected: 03/20/13 09:50

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Acenaphthylene	44	J	200	24	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Anthracene	37	J	41	21	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Benzo[a]anthracene	190		39	19	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Benzo[a]pyrene	250		51	25	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Benzo[b]fluoranthene	320		60	30	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Benzo[g,h,i]perylene	200		98	22	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Benzo[k]fluoranthene	180		39	18	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Chrysene	260		44	22	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Dibenz(a,h)anthracene	78	J	98	20	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Fluoranthene	270		98	20	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Fluorene	27	J	98	20	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Indeno[1,2,3-cd]pyrene	160		98	35	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
1-Methylnaphthalene	88	J	200	22	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360AA-CS

Lab Sample ID: 680-88592-8

Date Collected: 03/20/13 09:50

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 79.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	120	J	200	35	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Naphthalene	64	J	200	22	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Phenanthrene	150		39	19	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
Pyrene	270		98	18	ug/Kg	☼	03/25/13 16:58	03/28/13 19:21	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	89		30 - 130				03/25/13 16:58	03/28/13 19:21	4

Client Sample ID: CV1360BB-CS

Lab Sample ID: 680-88592-9

Date Collected: 03/20/13 09:45

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 69.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	570	U	570	110	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Acenaphthylene	100	J	230	29	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Anthracene	98		48	24	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Benzo[a]anthracene	490		46	22	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Benzo[a]pyrene	670		60	30	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Benzo[b]fluoranthene	960		70	35	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Benzo[g,h,i]perylene	580		110	25	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Benzo[k]fluoranthene	360		46	21	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Chrysene	660		52	26	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Dibenz(a,h)anthracene	140		110	23	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Fluoranthene	1000		110	23	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Fluorene	36	J	110	23	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Indeno[1,2,3-cd]pyrene	520		110	41	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
1-Methylnaphthalene	62	J	230	25	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
2-Methylnaphthalene	70	J	230	41	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Naphthalene	120	J	230	25	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Phenanthrene	670		46	22	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
Pyrene	1100		110	21	ug/Kg	☼	03/25/13 16:58	03/28/13 19:39	4
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>o-Terphenyl</i>	98		30 - 130				03/25/13 16:58	03/28/13 19:39	4

Client Sample ID: CV1360CC-CS

Lab Sample ID: 680-88592-10

Date Collected: 03/20/13 09:58

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	34	J	130	26	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Acenaphthylene	14	J	52	6.4	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Anthracene	87		11	5.4	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Benzo[a]anthracene	310		10	5.0	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Benzo[a]pyrene	260		13	6.7	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Benzo[b]fluoranthene	480		16	7.9	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Benzo[g,h,i]perylene	190		26	5.7	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Benzo[k]fluoranthene	170		10	4.6	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360CC-CS

Lab Sample ID: 680-88592-10

Date Collected: 03/20/13 09:58

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	330		12	5.8	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Dibenz(a,h)anthracene	65		26	5.3	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Fluoranthene	600		26	5.2	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Fluorene	40		26	5.3	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Indeno[1,2,3-cd]pyrene	140		26	9.1	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
1-Methylnaphthalene	52		52	5.7	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
2-Methylnaphthalene	59		52	9.1	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Naphthalene	57		52	5.7	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Phenanthrene	370		10	5.0	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Pyrene	510		26	4.8	ug/Kg	☼	03/26/13 16:07	03/27/13 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/26/13 16:07	03/27/13 13:15	1

Client Sample ID: CV1328A-CS

Lab Sample ID: 680-88592-11

Date Collected: 03/20/13 09:00

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Acenaphthylene	31	J	200	25	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Anthracene	62		41	21	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Benzo[a]anthracene	280		39	19	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Benzo[a]pyrene	260		51	25	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Benzo[b]fluoranthene	400		60	30	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Benzo[g,h,i]perylene	170		98	22	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Benzo[k]fluoranthene	170		39	18	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Chrysene	280		44	22	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Dibenz(a,h)anthracene	98	U	98	20	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Fluoranthene	420		98	20	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Fluorene	39	J	98	20	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Indeno[1,2,3-cd]pyrene	120		98	35	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
1-Methylnaphthalene	73	J	200	22	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
2-Methylnaphthalene	58	J	200	35	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Naphthalene	48	J	200	22	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Phenanthrene	260		39	19	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Pyrene	470		98	18	ug/Kg	☼	03/25/13 16:58	03/28/13 19:57	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	66		30 - 130				03/25/13 16:58	03/28/13 19:57	4

Client Sample ID: CV1328B-CS

Lab Sample ID: 680-88592-12

Date Collected: 03/20/13 09:10

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.2

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	☼	03/25/13 16:58	03/28/13 20:16	4
Acenaphthylene	200	U	200	26	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1328B-CS

Lab Sample ID: 680-88592-12

Date Collected: 03/20/13 09:10

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	34	J	43	21	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Benzo[a]anthracene	260		41	20	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Benzo[a]pyrene	240		53	27	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Benzo[b]fluoranthene	430		62	31	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Benzo[g,h,i]perylene	230		100	22	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Benzo[k]fluoranthene	200		41	18	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Chrysene	300		46	23	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Dibenz(a,h)anthracene	70	J	100	21	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Fluoranthene	290		100	20	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Fluorene	100	U	100	21	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Indeno[1,2,3-cd]pyrene	160		100	36	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
1-Methylnaphthalene	100	J	200	22	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
2-Methylnaphthalene	110	J	200	36	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Naphthalene	79	J	200	22	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Phenanthrene	170		41	20	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Pyrene	240		100	19	ug/Kg	☼	03/25/13 16:58	03/28/13 20:16	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	89		30 - 130				03/25/13 16:58	03/28/13 20:16	4

Client Sample ID: CV0101A-CS

Lab Sample ID: 680-88592-13

Date Collected: 03/20/13 08:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 61.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	33	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Acenaphthylene	65	U	65	8.1	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Anthracene	14	U	14	6.8	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Benzo[a]anthracene	33		13	6.4	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Benzo[a]pyrene	25		17	8.5	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Benzo[b]fluoranthene	38		20	9.9	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Benzo[g,h,i]perylene	22	J	33	7.2	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Benzo[k]fluoranthene	19		13	5.9	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Chrysene	48		15	7.3	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Dibenz(a,h)anthracene	9.2	J	33	6.7	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Fluoranthene	45		33	6.5	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Fluorene	33	U	33	6.7	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Indeno[1,2,3 cd]pyrene	16	J	33	12	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
1-Methylnaphthalene	59	J	65	7.2	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
2-Methylnaphthalene	67		65	12	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Naphthalene	72		65	7.2	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Phenanthrene	53		13	6.4	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Pyrene	40		33	6.0	ug/Kg	☼	03/25/13 16:58	03/28/13 20:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/25/13 16:58	03/28/13 20:34	1

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV0715A-CS

Lab Sample ID: 680-88592-14

Date Collected: 03/20/13 12:20

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 81.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Acenaphthylene	6.6	J	48	6.0	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Anthracene	13		10	5.0	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Benzo[a]anthracene	47		9.6	4.7	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Benzo[a]pyrene	49		12	6.2	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Benzo[b]fluoranthene	81		15	7.3	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Benzo[g,h,i]perylene	42		24	5.3	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Benzo[k]fluoranthene	41		9.6	4.3	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Chrysene	76		11	5.4	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Dibenz(a,h)anthracene	18	J	24	4.9	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Fluoranthene	62		24	4.8	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Fluorene	24	U	24	4.9	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Indeno[1,2,3-cd]pyrene	31		24	8.5	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
1-Methylnaphthalene	44	J	48	5.3	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
2-Methylnaphthalene	39	J	48	8.5	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Naphthalene	30	J	48	5.3	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Phenanthrene	66		9.6	4.7	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Pyrene	69		24	4.4	ug/Kg	☼	03/25/13 16:58	03/28/13 20:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				03/25/13 16:58	03/28/13 20:52	1

Client Sample ID: CV0715A-CSD

Lab Sample ID: 680-88592-15

Date Collected: 03/20/13 12:20

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 73.1

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	27	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Acenaphthylene	54	U	54	6.7	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Anthracene	69		11	5.6	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Benzo[a]anthracene	190		11	5.2	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Benzo[a]pyrene	150		14	7.0	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Benzo[b]fluoranthene	240		16	8.2	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Benzo[g,h,i]perylene	90		27	5.9	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Benzo[k]fluoranthene	110		11	4.8	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Chrysene	210		12	6.0	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Dibenz(a,h)anthracene	35		27	5.5	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Fluoranthene	410		27	5.4	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Fluorene	21	J	27	5.5	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Indeno[1,2,3-cd]pyrene	96		27	9.5	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
1-Methylnaphthalene	37	J	54	5.9	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
2-Methylnaphthalene	36	J	54	9.5	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Naphthalene	43	J	54	5.9	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Phenanthrene	330		11	5.2	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Pyrene	370		27	5.0	ug/Kg	☼	03/25/13 16:58	03/28/13 21:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		30 - 130				03/25/13 16:58	03/28/13 21:11	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV0862A-CS

Lab Sample ID: 680-88592-16

Date Collected: 03/20/13 13:00

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.9

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	☼	03/25/13 16:58	03/28/13 21:29	4
Acenaphthylene	210	U	210	26	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Anthracene	44	U	44	22	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Benzo[a]anthracene	180		42	20	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Benzo[a]pyrene	170		54	27	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Benzo[b]fluoranthene	200		64	32	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Benzo[g,h,i]perylene	140		100	23	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Benzo[k]fluoranthene	110		42	19	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Chrysene	240		47	23	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Dibenz(a,h)anthracene	83	J	100	21	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Fluoranthene	240		100	21	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Fluorene	100	U	100	21	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Indeno[1,2,3-cd]pyrene	100		100	37	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
1-Methylnaphthalene	85	J	210	23	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
2-Methylnaphthalene	120	J	210	37	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Naphthalene	68	J	210	23	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Phenanthrene	170		42	20	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Pyrene	260		100	19	ug/Kg	☼	03/25/13 16:58	03/28/13 21:29	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		30 - 130				03/25/13 16:58	03/28/13 21:29	4

Client Sample ID: CV0862B-CS

Lab Sample ID: 680-88592-17

Date Collected: 03/20/13 13:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 67.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Acenaphthylene	13	J	58	7.2	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Anthracene	10	J	12	6.1	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Benzo[a]anthracene	64		12	5.6	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Benzo[a]pyrene	49		15	7.5	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Benzo[b]fluoranthene	86		18	8.8	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Benzo[g,h,i]perylene	31		29	6.4	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Benzo[k]fluoranthene	33		12	5.2	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Chrysene	48		13	6.5	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Dibenz(a,h)anthracene	8.9	J	29	5.9	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Fluoranthene	73		29	5.8	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Fluorene	29	U	29	5.9	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Indeno[1,2,3-cd]pyrene	30		29	10	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
1-Methylnaphthalene	45	J	58	6.4	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
2-Methylnaphthalene	40	J	58	10	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Naphthalene	55	J	58	6.4	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Phenanthrene	60		12	5.6	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Pyrene	64		29	5.4	ug/Kg	☼	03/26/13 16:07	03/27/13 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130				03/26/13 16:07	03/27/13 13:34	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1156A-CS

Lab Sample ID: 680-88592-18

Date Collected: 03/20/13 13:25

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 71.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Acenaphthylene	220	U	220	28	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Anthracene	47	U	47	23	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Benzo[a]anthracene	160		45	22	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Benzo[a]pyrene	150		58	29	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Benzo[b]fluoranthene	230		68	34	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Benzo[g,h,i]perylene	120		110	24	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Benzo[k]fluoranthene	110		45	20	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Chrysene	170		50	25	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Dibenz(a,h)anthracene	60	J	110	23	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Fluoranthene	170		110	22	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Fluorene	110	U	110	23	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Indeno[1,2,3-cd]pyrene	110		110	40	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
1-Methylnaphthalene	58	J	220	24	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
2-Methylnaphthalene	64	J	220	40	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Naphthalene	75	J	220	24	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Phenanthrene	120		45	22	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Pyrene	160		110	21	ug/Kg	☼	03/26/13 16:07	03/27/13 13:52	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		30 - 130				03/26/13 16:07	03/27/13 13:52	4

Client Sample ID: CV1156B-CS

Lab Sample ID: 680-88592-19

Date Collected: 03/20/13 13:45

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 66.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	600	U	600	120	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Acenaphthylene	31	J	240	30	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Anthracene	75		50	25	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Benzo[a]anthracene	650		48	23	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Benzo[a]pyrene	740		63	31	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Benzo[b]fluoranthene	1500	F	73	37	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Benzo[g,h,i]perylene	800		120	26	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Benzo[k]fluoranthene	410		48	22	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Chrysene	670		54	27	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Dibenz(a,h)anthracene	270		120	25	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Fluoranthene	720		120	24	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Fluorene	120	U	120	25	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Indeno[1,2,3-cd]pyrene	750	F	120	43	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
1-Methylnaphthalene	60	J	240	26	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
2-Methylnaphthalene	110	J	240	43	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Naphthalene	160	J	240	26	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Phenanthrene	370		48	23	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Pyrene	690		120	22	ug/Kg	☼	03/26/13 16:07	03/27/13 12:20	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130				03/26/13 16:07	03/27/13 12:20	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1240A-CS

Lab Sample ID: 680-88592-20

Date Collected: 03/20/13 14:50

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Acenaphthylene	36	J	210	26	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Anthracene	98		44	22	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Benzo[a]anthracene	300		42	21	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Benzo[a]pyrene	260		55	27	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Benzo[b]fluoranthene	450		64	32	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Benzo[g,h,i]perylene	190		110	23	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Benzo[k]fluoranthene	150		42	19	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Chrysene	330		47	24	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Dibenz(a,h)anthracene	68	J	110	22	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Fluoranthene	440		110	21	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Fluorene	39	J	110	22	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Indeno[1,2,3-cd]pyrene	140		110	37	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
1-Methylnaphthalene	98	J	210	23	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
2-Methylnaphthalene	110	J	210	37	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Naphthalene	94	J	210	23	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Phenanthrene	340		42	21	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Pyrene	420		110	19	ug/Kg	☼	03/26/13 16:07	03/27/13 14:11	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	75		30 - 130				03/26/13 16:07	03/27/13 14:11	4

QC Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

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

Lab Sample ID: MB 660-135754/1-A

Matrix: Solid

Analysis Batch: 135902

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 135754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Fluorene	20	U	20	4.1	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Naphthalene	40	U	40	4.4	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/25/13 16:58	03/28/13 14:46	1
Pyrene	20	U	20	3.7	ug/Kg		03/25/13 16:58	03/28/13 14:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	82		30 - 130	03/25/13 16:58	03/28/13 14:46	1

Lab Sample ID: LCS 660-135754/2-A

Matrix: Solid

Analysis Batch: 135902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	653	560		ug/Kg		86	39 - 130
Acenaphthylene	653	589		ug/Kg		90	38 - 130
Anthracene	653	581		ug/Kg		89	37 - 130
Benzo[a]anthracene	653	617		ug/Kg		95	40 - 130
Benzo[a]pyrene	653	595		ug/Kg		91	49 - 130
Benzo[b]fluoranthene	653	631		ug/Kg		97	37 - 130
Benzo[g,h,i]perylene	653	585		ug/Kg		90	32 - 130
Benzo[k]fluoranthene	653	644		ug/Kg		99	32 - 130
Chrysene	653	597		ug/Kg		91	41 - 130
Dibenz(a,h)anthracene	653	604		ug/Kg		92	27 - 130
Fluoranthene	653	612		ug/Kg		94	40 - 130
Fluorene	653	593		ug/Kg		91	40 - 130
Indeno[1,2,3-cd]pyrene	653	608		ug/Kg		93	30 - 130
1-Methylnaphthalene	653	619		ug/Kg		95	31 - 130
2-Methylnaphthalene	653	636		ug/Kg		97	33 - 130
Naphthalene	653	612		ug/Kg		94	36 - 130
Phenanthrene	653	547		ug/Kg		84	42 - 130
Pyrene	653	647		ug/Kg		99	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

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

Lab Sample ID: LCS 660-135754/2-A
Matrix: Solid
Analysis Batch: 135902

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135754

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	90		30 - 130

Lab Sample ID: MB 660-135800/1-A
Matrix: Solid
Analysis Batch: 135830

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135800

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	100	U	100	20	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Fluorene	20	U	20	4.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Naphthalene	40	U	40	4.4	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/26/13 16:07	03/27/13 11:26	1
Pyrene	20	U	20	3.7	ug/Kg		03/26/13 16:07	03/27/13 11:26	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	69		30 - 130	03/26/13 16:07	03/27/13 11:26	1

Lab Sample ID: LCS 660-135800/2-A
Matrix: Solid
Analysis Batch: 135830

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135800

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	670	534		ug/Kg		80	39 - 130
Acenaphthylene	670	518		ug/Kg		77	38 - 130
Anthracene	670	533		ug/Kg		80	37 - 130
Benzo[a]anthracene	670	502		ug/Kg		75	40 - 130
Benzo[a]pyrene	670	483		ug/Kg		72	49 - 130
Benzo[b]fluoranthene	670	554		ug/Kg		83	37 - 130
Benzo[g,h,i]perylene	670	493		ug/Kg		74	32 - 130
Benzo[k]fluoranthene	670	514		ug/Kg		77	32 - 130
Chrysene	670	494		ug/Kg		74	41 - 130
Dibenz(a,h)anthracene	670	525		ug/Kg		78	27 - 130
Fluoranthene	670	540		ug/Kg		81	40 - 130
Fluorene	670	558		ug/Kg		83	40 - 130
Indeno[1,2,3-cd]pyrene	670	495		ug/Kg		74	30 - 130
1-Methylnaphthalene	670	553		ug/Kg		83	31 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

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

Lab Sample ID: LCS 660-135800/2-A

Matrix: Solid

Analysis Batch: 135830

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	670	503		ug/Kg		75	33 - 130
Naphthalene	670	505		ug/Kg		75	36 - 130
Phenanthrene	670	503		ug/Kg		75	42 - 130
Pyrene	670	517		ug/Kg		77	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	73		30 - 130

Lab Sample ID: 680-88592-19 MS

Matrix: Solid

Analysis Batch: 135830

Client Sample ID: CV1156B-CS

Prep Type: Total/NA

Prep Batch: 135800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	600	U	1000	681		ug/Kg	☼	68	39 - 130
Acenaphthylene	31	J	1000	617		ug/Kg	☼	58	38 - 130
Anthracene	75		1000	583		ug/Kg	☼	51	37 - 130
Benzo[a]anthracene	650		1000	1120		ug/Kg	☼	47	40 - 130
Benzo[a]pyrene	740		1000	1280		ug/Kg	☼	54	49 - 130
Benzo[b]fluoranthene	1500	F	1000	2010		ug/Kg	☼	50	37 - 130
Benzo[g,h,i]perylene	800		1000	1370		ug/Kg	☼	56	32 - 130
Benzo[k]fluoranthene	410		1000	1150		ug/Kg	☼	74	32 - 130
Chrysene	670		1000	1240		ug/Kg	☼	57	41 - 130
Dibenz(a,h)anthracene	270		1000	768		ug/Kg	☼	50	27 - 130
Fluoranthene	720		1000	1280		ug/Kg	☼	55	40 - 130
Fluorene	120	U	1000	671		ug/Kg	☼	67	40 - 130
Indeno[1,2,3-cd]pyrene	750	F	1000	1110		ug/Kg	☼	35	30 - 130
1-Methylnaphthalene	60	J	1000	781		ug/Kg	☼	72	31 - 130
2-Methylnaphthalene	110	J	1000	690		ug/Kg	☼	58	33 - 130
Naphthalene	160	J	1000	865		ug/Kg	☼	70	36 - 130
Phenanthrene	370		1000	870		ug/Kg	☼	50	42 - 130
Pyrene	690		1000	1240		ug/Kg	☼	54	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	55		30 - 130

Lab Sample ID: 680-88592-19 MSD

Matrix: Solid

Analysis Batch: 135830

Client Sample ID: CV1156B-CS

Prep Type: Total/NA

Prep Batch: 135800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	600	U	1000	616		ug/Kg	☼	61	39 - 130	10	40
Acenaphthylene	31	J	1000	693		ug/Kg	☼	66	38 - 130	12	40
Anthracene	75		1000	763		ug/Kg	☼	69	37 - 130	27	40
Benzo[a]anthracene	650		1000	1550		ug/Kg	☼	89	40 - 130	32	40
Benzo[a]pyrene	740		1000	1700		ug/Kg	☼	95	49 - 130	28	40
Benzo[b]fluoranthene	1500	F	1000	3480	F	ug/Kg	☼	197	37 - 130	53	40
Benzo[g,h,i]perylene	800		1000	1900		ug/Kg	☼	109	32 - 130	32	40
Benzo[k]fluoranthene	410		1000	1420		ug/Kg	☼	100	32 - 130	21	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

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

Lab Sample ID: 680-88592-19 MSD

Matrix: Solid

Analysis Batch: 135830

Client Sample ID: CV1156B-CS

Prep Type: Total/NA

Prep Batch: 135800

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chrysene	670		1000	1760		ug/Kg	*	109	41 - 130	35	40
Dibenz(a,h)an hracene	270		1000	1010		ug/Kg	*	74	27 - 130	27	40
Fluoranthene	720		1000	1780		ug/Kg	*	105	40 - 130	33	40
Fluorene	120	U	1000	829		ug/Kg	*	83	40 - 130	21	40
Indeno[1,2,3-cd]pyrene	750	F	1000	1740	F	ug/Kg	*	99	30 - 130	44	40
1-Methylnaphthalene	60	J	1000	882		ug/Kg	*	82	31 - 130	12	40
2-Methylnaphthalene	110	J	1000	985		ug/Kg	*	87	33 - 130	35	40
Naphthalene	160	J	1000	946		ug/Kg	*	78	36 - 130	9	40
Phenanthrene	370		1000	1170		ug/Kg	*	80	42 - 130	30	40
Pyrene	690		1000	1580		ug/Kg	*	89	44 - 130	24	40
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
<i>o</i> -Terphenyl	69		30 - 130								

QC Association Summary

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

GC/MS Semi VOA

Prep Batch: 135754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-1	CV1360U-CS	Total/NA	Solid	3546	
680-88592-2	CV1360V-CS	Total/NA	Solid	3546	
680-88592-3	CV1360V-CSD	Total/NA	Solid	3546	
680-88592-4	CV1360W-CS	Total/NA	Solid	3546	
680-88592-5	CV1360X-CS	Total/NA	Solid	3546	
680-88592-6	CV1360Y-CS	Total/NA	Solid	3546	
680-88592-6 - DL	CV1360Y-CS	Total/NA	Solid	3546	
680-88592-7	CV1360Z-CS	Total/NA	Solid	3546	
680-88592-8	CV1360AA-CS	Total/NA	Solid	3546	
680-88592-9	CV1360BB-CS	Total/NA	Solid	3546	
680-88592-11	CV1328A-CS	Total/NA	Solid	3546	
680-88592-12	CV1328B-CS	Total/NA	Solid	3546	
680-88592-13	CV0101A-CS	Total/NA	Solid	3546	
680-88592-14	CV0715A-CS	Total/NA	Solid	3546	
680-88592-15	CV0715A-CSD	Total/NA	Solid	3546	
680-88592-16	CV0862A-CS	Total/NA	Solid	3546	
LCS 660-135754/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135754/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 135800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-10	CV1360CC-CS	Total/NA	Solid	3546	
680-88592-17	CV0862B-CS	Total/NA	Solid	3546	
680-88592-18	CV1156A-CS	Total/NA	Solid	3546	
680-88592-19	CV1156B-CS	Total/NA	Solid	3546	
680-88592-19 MS	CV1156B-CS	Total/NA	Solid	3546	
680-88592-19 MSD	CV1156B-CS	Total/NA	Solid	3546	
680-88592-20	CV1240A-CS	Total/NA	Solid	3546	
LCS 660-135800/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135800/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-10	CV1360CC-CS	Total/NA	Solid	8270C LL	135800
680-88592-17	CV0862B-CS	Total/NA	Solid	8270C LL	135800
680-88592-18	CV1156A-CS	Total/NA	Solid	8270C LL	135800
680-88592-19	CV1156B-CS	Total/NA	Solid	8270C LL	135800
680-88592-19 MS	CV1156B-CS	Total/NA	Solid	8270C LL	135800
680-88592-19 MSD	CV1156B-CS	Total/NA	Solid	8270C LL	135800
680-88592-20	CV1240A-CS	Total/NA	Solid	8270C LL	135800
LCS 660-135800/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135800
MB 660-135800/1-A	Method Blank	Total/NA	Solid	8270C LL	135800

Analysis Batch: 135902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-1	CV1360U-CS	Total/NA	Solid	8270C LL	135754
680-88592-2	CV1360V-CS	Total/NA	Solid	8270C LL	135754
680-88592-3	CV1360V-CSD	Total/NA	Solid	8270C LL	135754
680-88592-4	CV1360W-CS	Total/NA	Solid	8270C LL	135754
680-88592-5	CV1360X-CS	Total/NA	Solid	8270C LL	135754
680-88592-6	CV1360Y-CS	Total/NA	Solid	8270C LL	135754

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

GC/MS Semi VOA (Continued)

Analysis Batch: 135902 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-7	CV1360Z-CS	Total/NA	Solid	8270C LL	135754
680-88592-8	CV1360AA-CS	Total/NA	Solid	8270C LL	135754
680-88592-9	CV1360BB-CS	Total/NA	Solid	8270C LL	135754
680-88592-11	CV1328A-CS	Total/NA	Solid	8270C LL	135754
680-88592-12	CV1328B-CS	Total/NA	Solid	8270C LL	135754
680-88592-13	CV0101A-CS	Total/NA	Solid	8270C LL	135754
680-88592-14	CV0715A-CS	Total/NA	Solid	8270C LL	135754
680-88592-15	CV0715A-CSD	Total/NA	Solid	8270C LL	135754
680-88592-16	CV0862A-CS	Total/NA	Solid	8270C LL	135754
LCS 660-135754/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135754
MB 660-135754/1-A	Method Blank	Total/NA	Solid	8270C LL	135754

Analysis Batch: 135996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-6 - DL	CV1360Y-CS	Total/NA	Solid	8270C LL	135754

General Chemistry

Analysis Batch: 135737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-5	CV1360X-CS	Total/NA	Solid	Moisture	
680-88592-6	CV1360Y-CS	Total/NA	Solid	Moisture	
680-88592-7	CV1360Z-CS	Total/NA	Solid	Moisture	
680-88592-8	CV1360AA-CS	Total/NA	Solid	Moisture	
680-88592-9	CV1360BB-CS	Total/NA	Solid	Moisture	
680-88592-10	CV1360CC-CS	Total/NA	Solid	Moisture	
680-88592-11	CV1328A-CS	Total/NA	Solid	Moisture	
680-88592-12	CV1328B-CS	Total/NA	Solid	Moisture	
680-88592-13	CV0101A-CS	Total/NA	Solid	Moisture	
680-88592-14	CV0715A-CS	Total/NA	Solid	Moisture	
680-88592-15	CV0715A-CSD	Total/NA	Solid	Moisture	
680-88592-16	CV0862A-CS	Total/NA	Solid	Moisture	
680-88592-17	CV0862B-CS	Total/NA	Solid	Moisture	
680-88592-18	CV1156A-CS	Total/NA	Solid	Moisture	
680-88592-19	CV1156B-CS	Total/NA	Solid	Moisture	
680-88592-19 MS	CV1156B-CS	Total/NA	Solid	Moisture	
680-88592-19 MSD	CV1156B-CS	Total/NA	Solid	Moisture	
680-88592-20	CV1240A-CS	Total/NA	Solid	Moisture	
MB 660-135737/1	Method Blank	Total/NA	Solid	Moisture	

Analysis Batch: 135743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88592-1	CV1360U-CS	Total/NA	Solid	Moisture	
680-88592-2	CV1360V-CS	Total/NA	Solid	Moisture	
680-88592-3	CV1360V-CSD	Total/NA	Solid	Moisture	
680-88592-4	CV1360W-CS	Total/NA	Solid	Moisture	
LCS 660-135743/1	Lab Control Sample	Total/NA	Solid	Moisture	
LCSD 660-135743/22	Lab Control Sample Dup	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360U-CS

Lab Sample ID: 680-88592-1

Date Collected: 03/20/13 08:20

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135902	03/28/13 17:12	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135743	03/25/13 10:53	AG	TAL TAM

Client Sample ID: CV1360V-CS

Lab Sample ID: 680-88592-2

Date Collected: 03/20/13 08:30

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135902	03/28/13 17:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135743	03/25/13 12:17	AG	TAL TAM

Client Sample ID: CV1360V-CSD

Lab Sample ID: 680-88592-3

Date Collected: 03/20/13 08:30

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135902	03/28/13 17:49	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135743	03/25/13 12:43	AG	TAL TAM

Client Sample ID: CV1360W-CS

Lab Sample ID: 680-88592-4

Date Collected: 03/20/13 08:50

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 60.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 18:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135743	03/25/13 13:21	AG	TAL TAM

Client Sample ID: CV1360X-CS

Lab Sample ID: 680-88592-5

Date Collected: 03/20/13 09:00

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 66.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 18:26	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1360Y-CS

Lab Sample ID: 680-88592-6

Date Collected: 03/20/13 09:10

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 68.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 18:44	SCC	TAL TAM
Total/NA	Prep	3546	DL		135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	135996	04/01/13 14:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Client Sample ID: CV1360Z-CS

Lab Sample ID: 680-88592-7

Date Collected: 03/20/13 09:25

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 19:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Client Sample ID: CV1360AA-CS

Lab Sample ID: 680-88592-8

Date Collected: 03/20/13 09:50

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135902	03/28/13 19:21	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Client Sample ID: CV1360BB-CS

Lab Sample ID: 680-88592-9

Date Collected: 03/20/13 09:45

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 69.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135902	03/28/13 19:39	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Client Sample ID: CV1360CC-CS

Lab Sample ID: 680-88592-10

Date Collected: 03/20/13 09:58

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 13:15	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV1328A-CS

Lab Sample ID: 680-88592-11

Date Collected: 03/20/13 09:00

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135902	03/28/13 19:57	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Client Sample ID: CV1328B-CS

Lab Sample ID: 680-88592-12

Date Collected: 03/20/13 09:10

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135902	03/28/13 20:16	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Client Sample ID: CV0101A-CS

Lab Sample ID: 680-88592-13

Date Collected: 03/20/13 08:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 61.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 20:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Client Sample ID: CV0715A-CS

Lab Sample ID: 680-88592-14

Date Collected: 03/20/13 12:20

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 20:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Client Sample ID: CV0715A-CSD

Lab Sample ID: 680-88592-15

Date Collected: 03/20/13 12:20

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 73.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135902	03/28/13 21:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Client Sample ID: CV0862A-CS

Lab Sample ID: 680-88592-16

Date Collected: 03/20/13 13:00

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135754	03/25/13 16:58	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135902	03/28/13 21:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Client Sample ID: CV0862B-CS

Lab Sample ID: 680-88592-17

Date Collected: 03/20/13 13:15

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 67.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135830	03/27/13 13:34	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Client Sample ID: CV1156A-CS

Lab Sample ID: 680-88592-18

Date Collected: 03/20/13 13:25

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 71.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135830	03/27/13 13:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Client Sample ID: CV1156B-CS

Lab Sample ID: 680-88592-19

Date Collected: 03/20/13 13:45

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 66.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135830	03/27/13 12:20	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Client Sample ID: CV1240A-CS

Lab Sample ID: 680-88592-20

Date Collected: 03/20/13 14:50

Matrix: Solid

Date Received: 03/22/13 09:39

Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135800	03/26/13 16:07	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135830	03/27/13 14:11	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135737	03/25/13 12:32	AG	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 63565

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 <i>35th Ave Removal</i>	PROJECT NO. <i>2005148-1356</i>	PROJECT LOCATION (STATE) <i>AL</i>	MATRIX TYPE	REQUIRED ANALYSIS	PAGE <i>1</i>	OF <i>3</i>
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TAL (LAB) PROJECT MANAGER <i>Lisa Harven</i>	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY <input type="radio"/>	DATE DUE	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	DATE DUE
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(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)	LL PAH	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
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COMPANY CONTRACTING THIS WORK (if applicable)	PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
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SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C)	MATRIX TYPE			REQUIRED ANALYSIS										REMARKS						
				AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	1	2	3	4	5	6	7	8	9		10	11	12			
<i>3-20-13</i>	<i>0820</i>	<i>CV1360 u - CS</i>	<i>C</i>	<i>X</i>		<i>X</i>																	
	<i>0830</i>	<i>CV1360 v - CS</i>	<i>C</i>	<i>X</i>		<i>X</i>																	
	<i>0830</i>	<i>CV1360 v - CSD</i>	<i>C</i>	<i>X</i>		<i>X</i>																	
	<i>0850</i>	<i>CV1360 w - CS</i>	<i>C</i>	<i>X</i>		<i>X</i>																	
	<i>0900</i>	<i>CV1360 x - CS</i>	<i>C</i>	<i>X</i>		<i>X</i>																	
	<i>0910</i>	<i>CV1360 y - CS</i>	<i>C</i>	<i>X</i>		<i>X</i>																	
	<i>0925</i>	<i>CV1360 z - CS</i>	<i>C</i>	<i>X</i>		<i>X</i>																	
	<i>0950</i>	<i>CV1360 aa - CS</i>	<i>C</i>	<i>X</i>		<i>X</i>																	
	<i>0945</i>	<i>CV1360 bb - CS</i>	<i>C</i>	<i>X</i>		<i>X</i>																	
	<i>0958</i>	<i>CV1360 cc - CS</i>	<i>C</i>	<i>X</i>		<i>X</i>																	
	<i>0900</i>	<i>CV1328 A - CS</i>	<i>C</i>	<i>X</i>		<i>X</i>																	
	<i>0910</i>	<i>CV1328 B - CS</i>	<i>C</i>	<i>X</i>		<i>X</i>																	

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>3-21-13</i>	TIME <i>1500</i>	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>03/22/13</i>	TIME <i>0939</i>	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>686-88592</i>	LABORATORY REMARKS <i>1.6°</i>
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4/3/2013



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. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 2	OF 3
TAL (LAB) PROJECT MANAGER Lisa Harvey	P.O. NUMBER	CONTRACT NO.	DATE		STANDARD REPORT DELIVERY <input type="checkbox"/>	DATE DUE _____

(b) (6)

COMPANY CONTRACTING THIS WORK (if applicable)	COMPOSITE (C) O	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LL PPAH PCPA & Metals	PRESERVATIVE	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) O	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED				REMARKS
DATE	TIME											
3-20-13	0815 0810	CV0101A-CS	C	X			X					
	1220	CV0715A-CS	C	X								
	1320	CV0715A-CSD	C	X								
	1300	CV0862A-CS	C	X								
	1315	CV0862B-CS	C	X								
	1325	CV1156A-CS	C	X								
	1345	CV1156B-CS	C	X			X					
	1450	CV1240A-CS	C	X								
	1400	CV1323A-GS	G	X								
	1410	CV1323B-GS	G	X								
	1415	CV1323C-GS	G	X								
	1420	CV1323D-GS	G	X								

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-21-13	TIME 1500	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY						
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>[Signature]</i>	DATE 03/22/13	TIME 0939	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 8859.2	LABORATORY REMARKS 1.6C

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4/3/2013



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-1

SDG Number: 68088592-1

Login Number: 88592

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88592-1

SDG Number: 68088592-1

Login Number: 88592

List Number: 1

Creator: Edwards, Erricka

List Source: TestAmerica Tampa

List Creation: 03/23/13 11:04 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

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

TestAmerica Job ID: 680-88592-1
 SDG: 68088592-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
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
USDA	Federal		P330-11-00177	04-20-14