

REDACTED

Data Validation Checklist Semivolatile Organic Analyses

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

Project No: 15268508.20000
 Job ID.: 680-88176-1
 Associated Samples: Refer to Attachment A (Sample Summary)
 Date(s) Collected: 03/07/2013
 Date: 03/28/2013
 Date: 04/05/2013

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

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

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (030513-RB-Shovel) was collected during the week of 03/04/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-88065-1.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)		✓			
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> CV0348A-CS (680-88176-1) and CV0348A-CSD (680-88176-2) CV0207A-CS (680-88176-11) and CV0207A-CSD (680-88176-12) 	
15. Was precision deemed acceptable as defined by the project plans?		✓		See Attachment B, Field Duplicate Evaluation.	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <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: 03/15/2013 @ 14:42 CCV: 03/20/2013 @ 10:36 CCV: 03/21/2013 @ 11:50 	
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 $r < 0.995$, 		✓		<ul style="list-style-type: none"> ICV of 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 	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects</p> <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 semivolatiles target compounds 				Negative bias is indicated by the ICV percent difference; therefore, J-flag chrysene and benzo(a)pyrene results in all samples.	
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 135392: 680-88118-21 (Batch sample), MS/MSD • Prep Batch 135508: 680-88176-5 (CV0827B-CS) 	
24. Is the MS/MSD parent sample a project-specific sample?	✓			See above.	
<p>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></p> <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 		✓		CV0590B-CS (680-88176-21): Refer to Attachment C (MS/MSD Results)	J
<p>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></p> <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- 		✓		CV0590B-CS (680-88176-21): Refer to Attachment C (MS/MSD Results)	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
detect result					
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 D (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 E). 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: 680-88176-1
SDG: 68088176-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88176-1	CV0348A-CS	Solid	03/07/13 08:50	03/09/13 09:57
680-88176-2	CV0348A-CSD	Solid	03/07/13 08:50	03/09/13 09:57
680-88176-3	CV0348B-CS	Solid	03/07/13 09:00	03/09/13 09:57
680-88176-4	CV0827A-CS	Solid	03/07/13 09:20	03/09/13 09:57
680-88176-5	CV0827B-CS	Solid	03/07/13 09:30	03/09/13 09:57
680-88176-6	CV0827C-CS	Solid	03/07/13 09:40	03/09/13 09:57
680-88176-7	CV0853A-CS	Solid	03/07/13 10:55	03/09/13 09:57
680-88176-8	CV0853B-GS	Solid	03/07/13 11:05	03/09/13 09:57
680-88176-9	CV0910A-CS	Solid	03/07/13 10:10	03/09/13 09:57
680-88176-10	CV0910B-CS	Solid	03/07/13 10:20	03/09/13 09:57
680-88176-11	CV0207A-CS	Solid	03/07/13 12:30	03/09/13 09:57
680-88176-12	CV0207A-CSD	Solid	03/07/13 12:30	03/09/13 09:57
680-88176-13	CV0207B-CS	Solid	03/07/13 12:40	03/09/13 09:57
680-88176-14	CV0252A-CS	Solid	03/07/13 13:00	03/09/13 09:57
680-88176-15	CV0473B-CS	Solid	03/07/13 13:20	03/09/13 09:57
680-88176-16	CV0473A-CS	Solid	03/07/13 13:30	03/09/13 09:57
680-88176-17	CV0457A-CS	Solid	03/07/13 14:00	03/09/13 09:57
680-88176-18	CV0067A-CS	Solid	03/07/13 14:30	03/09/13 09:57
680-88176-19	CV0067B-CS	Solid	03/07/13 14:40	03/09/13 09:57
680-88176-20	CV0590A-CS	Solid	03/07/13 15:20	03/09/13 09:57

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0348A-CS (680-88176-1)	RL	CV0348A-CSD (680-88176-2)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene		210	11	61	µg/kg	677.5	NA	11	271	None, absolute difference ≤ 2x Avg RL
Anthracene	26	43	17	13	µg/kg	140	NA	9	56	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	150	41	88	12	µg/kg	132.5	NA	62	53	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)pyrene	120	54	97	16	µg/kg	175	NA	23	70	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	220	63	190	19	µg/kg	205	NA	30	82	None, absolute difference ≤ 2x Avg RL
Benzo(g,h,i)perylene	100	100	93	31	µg/kg	327.5	NA	7	131	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	83	41	40	12	µg/kg	132.5	NA	43	53	None, absolute difference ≤ 2x Avg RL
Chrysene	140	47	120	14	µg/kg	152.5	NA	20	61	None, absolute difference ≤ 2x Avg RL
Dibenzo(a,h)anthracene	31	100	19	31	µg/kg	327.5	NA	12	131	None, absolute difference ≤ 2x Avg RL
Fluoranthene	160	100	170	31	µg/kg	327.5	NA	10	131	None, absolute difference ≤ 2x Avg RL
Fluorene		100	12	31	µg/kg	327.5	NA	12	131	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	71	100	60	31	µg/kg	327.5	NA	11	131	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	29	210	45	61	µg/kg	677.5	NA	16	271	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene		210	57	61	µg/kg	677.5	NA	57	271	None, absolute difference ≤ 2x Avg RL
Naphthalene	68	210	69	61	µg/kg	677.5	NA	1	271	None, absolute difference ≤ 2x Avg RL
Phenanthrene	140	41	100	12	µg/kg	132.5	NA	40	53	None, absolute difference ≤ 2x Avg RL
Pyrene	200	100	150	31	µg/kg	327.5	NA	50	131	None, absolute difference ≤ 2x Avg RL

Analyte	CV0207A-CS (680-88176-11)	RL	CV0207A-CSD (680-88176-12)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	25	49	21	47	µg/kg	240	NA	4	96	None, absolute difference ≤ 2x Avg RL
Anthracene	48	10	20	9.9	µg/kg	49.75	NA	28	19.9	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	330	9.8	200	9.4	µg/kg	48	49	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	410	13	250	12	µg/kg	62.5	48	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	640	15	380	14	µg/kg	72.5	51	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	330	24	230	24	µg/kg	120	36	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	240	9.8	170	9.4	µg/kg	48	34	NA	NA	None, RPD ≤ 50%
Chrysene	440	11	220	11	µg/kg	55	67	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	94	24	68	24	µg/kg	120	NA	26	48	None, absolute difference ≤ 2x Avg RL
Fluoranthene	490	24	230	24	µg/kg	120	72	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	16	24	11	24	µg/kg	120	NA	5	48	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	320	24	180	24	µg/kg	120	56	NA	NA	J/UJ-flag, RPD > 50%
1-Methylnaphthalene	97	49	49	47	µg/kg	240	NA	48	96	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	130	49	69	47	µg/kg	240	NA	61	96	None, absolute difference ≤ 2x Avg RL
Naphthalene	87	49	52	47	µg/kg	240	NA	35	96	None, absolute difference ≤ 2x Avg RL
Phenanthrene	250	9.8	110	9.4	µg/kg	48	78	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	470	24	240	24	µg/kg	120	65	NA	NA	J/UJ-flag, RPD > 50%

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

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

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

ATTACHMENT C

MS/MSD RESULTS

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Matrix: Solid Level: Low Lab File ID: 1CC20011.D
 Lab ID: 680-88176-5 MS Client ID: CV0827B-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	929	550 U	606	65	39-130	
Acenaphthylene	929	240	554	34	38-130	F
Anthracene	929	110	440	35	37-130	F
Benzo[a]anthracene	929	500	636	14	40-130	F
Benzo[a]pyrene	929	350	432	8	49-130	F
Benzo[b]fluoranthene	929	630	815	20	37-130	F
Benzo[g,h,i]perylene	929	300	533	25	32-130	F
Benzo[k]fluoranthene	929	220	386	18	32-130	F
Chrysene	929	960	1220	29	41-130	F
Dibenz(a,h)anthracene	929	100 J	319	24	27-130	F
Fluoranthene	929	740	975	25	40-130	F
Fluorene	929	100 J	720	66	40-130	
Indeno[1,2,3-cd]pyrene	929	160	334	19	30-130	F
1-Methylnaphthalene	929	1100	3490	258	31-130	F
2-Methylnaphthalene	929	1100	3340	242	33-130	F
Naphthalene	929	1700	4320	282	36-130	F
Phenanthrene	929	1200	2130	105	42-130	
Pyrene	929	700	967	29	44-130	F

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Matrix: Solid Level: Low Lab File ID: 1CC20012.D
 Lab ID: 680-88176-5 MSD Client ID: CV0827B-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	924	483 J	52	23	40	39-130	
Acenaphthylene	924	575	36	4	40	38-130	F
Anthracene	924	565	49	25	40	37-130	
Benzo[a]anthracene	924	810	33	24	40	40-130	F
Benzo[a]pyrene	924	641	31	39	40	49-130	F
Benzo[b]fluoranthene	924	971	37	17	40	37-130	
Benzo[g,h,i]perylene	924	621	35	15	40	32-130	
Benzo[k]fluoranthene	924	691	51	57	40	32-130	F
Chrysene	924	1210	27	1	40	41-130	F
Dibenz(a,h)anthracene	924	475	40	39	40	27-130	
Fluoranthene	924	1170	46	18	40	40-130	
Fluorene	924	595	53	19	40	40-130	
Indeno[1,2,3-cd]pyrene	924	574	45	53	40	30-130	F
1-Methylnaphthalene	924	1640	60	72	40	31-130	F
2-Methylnaphthalene	924	1480	42	77	40	33-130	F
Naphthalene	924	1440	-28	100	40	36-130	F
Phenanthrene	924	1300	16	49	40	42-130	F
Pyrene	924	1080	42	12	40	44-130	F

Column to be used to flag recovery and RPD values

ATTACHMENT D
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-88176-1
SDG: 68088176-1

Job ID: 680-88176-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-88176-1

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 03/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0348A-CS (680-88176-1), CV0348A-CSD (680-88176-2), CV0348B-CS (680-88176-3), CV0827A-CS (680-88176-4), CV0827B-CS (680-88176-5), CV0827C-CS (680-88176-6), CV0853A-CS (680-88176-7), CV0853B-GS (680-88176-8), CV0910A-CS (680-88176-9), CV0910B-CS (680-88176-10), CV0207A-CS (680-88176-11), CV0207A-CSD (680-88176-12), CV0207B-CS (680-88176-13), CV0252A-CS (680-88176-14), CV0473B-CS (680-88176-15), CV0473A-CS (680-88176-16), CV0457A-CS (680-88176-17), CV0067A-CS (680-88176-18), CV0067B-CS (680-88176-19) and CV0590A-CS (680-88176-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C.

Several analytes were outside laboratory control limits in the MS and MSD of sample CV0827B-CS (680-88176-5) in batch 660-135624.

Method(s) 8270C LL: The following samples were diluted due to the color of the extracts: CV0348A-CS (680-88176-1), FM0116B-CS-SP (680-88118-21), FM0116B-CS-SP (680-88118-21 MS), FM0116B-CS-SP (680-88118-21 MSD). Elevated reporting limits (RL) are provided. Batch: 135469.

Method(s) 8270C LL: The following samples were diluted due to the color of the extracts: CV0457A-CS (680-88176-17), CV0827A-CS (680-88176-4), CV0827B-CS (680-88176-5), CV0827B-CS (680-88176-5 MS), CV0827B-CS (680-88176-5 MSD), CV0827C-CS (680-88176-6), CV0853B-GS (680-88176-8), CV0910A-CS (680-88176-9). Elevated reporting limits (RL) are provided. Batch: 135624.

ATTACHMENT E
QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0348A-CS

Lab Sample ID: 680-88176-1

Date Collected: 03/07/13 08:50

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 77.5

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	☉	03/14/13 10:53	03/15/13 23:52	4
Acenaphthylene	210	U	210	26	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Anthracene	26	J	43	22	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Benzo[a]anthracene	150	J	41	20	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Benzo[a]pyrene	120	J	54	27	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Benzo[b]fluoranthene	220		63	32	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Benzo[g,h,i]perylene	100		100	23	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Benzo[k]fluoranthene	83		41	19	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Chrysene	140	J	47	23	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Dibenz(a,h)anthracene	31	J	100	21	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Fluoranthene	160		100	21	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Fluorene	100	U	100	21	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Indeno[1,2,3-cd]pyrene	71	J	100	37	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
1-Methylnaphthalene	29	J	210	23	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
2-Methylnaphthalene	210	U	210	37	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Naphthalene	68	J	210	23	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Phenanthrene	140		41	20	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	4
Pyrene	200		100	19	ug/Kg	☉	03/14/13 10:53	03/15/13 23:52	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>	62		30 - 130				03/14/13 10:53	03/15/13 23:52	4

Client Sample ID: CV0348A-CSD

Lab Sample ID: 680-88176-2

Date Collected: 03/07/13 08:50

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 64.6

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	31	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Acenaphthylene	11	J	61	7.7	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Anthracene	17		13	6.4	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Benzo[a]anthracene	88	J	12	6.0	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Benzo[a]pyrene	97	J	16	8.0	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Benzo[b]fluoranthene	190		19	9.4	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Benzo[g,h,i]perylene	93		31	6.7	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Benzo[k]fluoranthene	40		12	5.5	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Chrysene	120	J	14	6.9	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Dibenz(a,h)anthracene	19	J	31	6.3	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Fluoranthene	170		31	6.1	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Fluorene	12	J	31	6.3	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Indeno[1,2,3-cd]pyrene	60		31	11	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
1-Methylnaphthalene	45	J	61	6.7	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
2-Methylnaphthalene	57	J	61	11	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Naphthalene	69		61	6.7	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Phenanthrene	100		12	6.0	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	1
Pyrene	150		31	5.7	ug/Kg	☉	03/18/13 13:53	03/20/13 11:51	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>	46		30 - 130				03/18/13 13:53	03/20/13 11:51	1

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0348B-CS

Lab Sample ID: 680-88176-3

Date Collected: 03/07/13 09:00

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 74.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Acenaphthylene	9.0	J	54	6.7	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Anthracene	24		11	5.6	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Benzo[a]anthracene	130		11	5.2	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Benzo[a]pyrene	110	J	14	7.0	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Benzo[b]fluoranthene	200		16	8.2	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Benzo[g,h,i]perylene	67		27	5.9	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Benzo[k]fluoranthene	55		11	4.8	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Chrysene	160	J	12	6.0	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Dibenz(a,h)anthracene	29		27	5.5	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Fluoranthene	230		27	5.4	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Fluorene	19	J	27	5.5	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Indeno[1,2,3-cd]pyrene	81		27	9.5	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
1-Methylnaphthalene	29	J	54	5.9	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
2-Methylnaphthalene	52	J	54	9.5	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Naphthalene	71		54	5.9	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Phenanthrene	180		11	5.2	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Pyrene	190		27	5.0	ug/Kg	☆	03/18/13 13:53	03/20/13 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130				03/18/13 13:53	03/20/13 12:09	1

Client Sample ID: CV0827A-CS

Lab Sample ID: 680-88176-4

Date Collected: 03/07/13 09:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 74.9

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	☆	03/18/13 13:53	03/20/13 12:28	4
Acenaphthylene	28	J	210	26	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Anthracene	31	J	44	22	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Benzo[a]anthracene	200		42	20	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Benzo[a]pyrene	200	J	54	27	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Benzo[b]fluoranthene	350		63	32	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Benzo[g,h,i]perylene	200		100	23	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Benzo[k]fluoranthene	100		42	19	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Chrysene	300	J	47	23	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Dibenz(a,h)anthracene	53	J	100	21	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Fluoranthene	360		100	21	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Fluorene	33	J	100	21	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Indeno[1,2,3-cd]pyrene	87	J	100	37	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
1-Methylnaphthalene	71	J	210	23	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
2-Methylnaphthalene	94	J	210	37	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Naphthalene	90	J	210	23	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Phenanthrene	300		42	20	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Pyrene	330		100	19	ug/Kg	☆	03/18/13 13:53	03/20/13 12:28	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		30 - 130				03/18/13 13:53	03/20/13 12:28	4

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0827B-CS

Lab Sample ID: 680-88176-5

Date Collected: 03/07/13 09:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 70.2

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	☐	03/18/13 13:53	03/20/13 12:46	4	
Acenaphthylene	240	F J	220	28	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Anthracene	110	F J	47	23	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Benzo[a]anthracene	500	F J	44	22	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Benzo[a]pyrene	350	F J	58	29	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Benzo[b]fluoranthene	630	F J	68	34	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Benzo[g,h,i]perylene	300	F J	110	24	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Benzo[k]fluoranthene	220	F J	44	20	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Chrysene	960	F J	50	25	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Dibenz(a,h)anthracene	100	J F	110	23	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Fluoranthene	740	F	110	22	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Fluorene	100	J	110	23	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Indeno[1,2,3-cd]pyrene	160	F J	110	39	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
1-Methylnaphthalene	1100	F J	220	24	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
2-Methylnaphthalene	1100	F J	220	39	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Naphthalene	1700	F J	220	24	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Phenanthrene	1200	F J	44	22	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Pyrene	700	F J	110	21	ug/Kg	☐	03/18/13 13:53	03/20/13 12:46	4	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
<i>o</i> -Terphenyl	73		30 - 130				03/18/13 13:53	03/20/13 12:46	4	

Client Sample ID: CV0827C-CS

Lab Sample ID: 680-88176-6

Date Collected: 03/07/13 09:40

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 69.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	580	U	580	120	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Acenaphthylene	39	J	230	29	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Anthracene	56		49	24	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Benzo[a]anthracene	220		47	23	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Benzo[a]pyrene	230	J	60	30	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Benzo[b]fluoranthene	450		71	35	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Benzo[g,h,i]perylene	230		120	26	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Benzo[k]fluoranthene	130		47	21	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Chrysene	470	J	52	26	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Dibenz(a,h)anthracene	95	J	120	24	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Fluoranthene	340		120	23	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Fluorene	28	J	120	24	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Indeno[1,2,3-cd]pyrene	180		120	41	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
1-Methylnaphthalene	390		230	26	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
2-Methylnaphthalene	290		230	41	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Naphthalene	290		230	26	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Phenanthrene	450		47	23	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Pyrene	360		120	22	ug/Kg	☐	03/18/13 13:53	03/20/13 13:41	4	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
<i>o</i> -Terphenyl	65		30 - 130				03/18/13 13:53	03/20/13 13:41	4	

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0853A-CS

Lab Sample ID: 680-88176-7

Date Collected: 03/07/13 10:55

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 72.4

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	27	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Acenaphthylene	16	J	54	6.8	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Anthracene	48		11	5.7	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Benzo[a]anthracene	580		11	5.3	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Benzo[a]pyrene	890	J	14	7.1	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Benzo[b]fluoranthene	1700		17	8.3	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Benzo[g,h,i]perylene	980		27	6.0	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Benzo[k]fluoranthene	640		11	4.9	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Chrysene	870	J	12	6.1	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Dibenz(a,h)anthracene	280		27	5.6	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Fluoranthene	710		27	5.4	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Fluorene	30		27	5.6	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Indeno[1,2,3-cd]pyrene	780		27	9.6	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
1-Methylnaphthalene	160		54	6.0	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
2-Methylnaphthalene	160		54	9.6	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Naphthalene	120		54	6.0	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Phenanthrene	420		11	5.3	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Pyrene	670		27	5.0	ug/Kg	☆	03/18/13 13:53	03/20/13 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130				03/18/13 13:53	03/20/13 14:00	1

Client Sample ID: CV0853B-GS

Lab Sample ID: 680-88176-8

Date Collected: 03/07/13 11:05

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 63.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	620	U	620	120	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Acenaphthylene	31	J	250	31	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Anthracene	41	J	52	26	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Benzo[a]anthracene	250		50	24	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Benzo[a]pyrene	370	J	65	32	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Benzo[b]fluoranthene	790		76	38	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Benzo[g,h,i]perylene	410		120	27	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Benzo[k]fluoranthene	280		50	22	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Chrysene	440	J	56	28	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Dibenz(a,h)anthracene	150		120	26	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Fluoranthene	340		120	25	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Fluorene	34	J	120	26	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Indeno[1,2,3-cd]pyrene	300		120	44	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
1-Methylnaphthalene	100	J	250	27	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
2-Methylnaphthalene	160	J	250	44	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Naphthalene	200	J	250	27	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Phenanthrene	260		50	24	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Pyrene	280		120	23	ug/Kg	☆	03/18/13 13:53	03/20/13 14:18	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				03/18/13 13:53	03/20/13 14:18	4

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0910A-CS

Lab Sample ID: 680-88176-9

Date Collected: 03/07/13 10:10

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 81.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Acenaphthylene	95	J	200	25	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Anthracene	81		41	21	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Benzo[a]anthracene	470		39	19	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Benzo[a]pyrene	410	J	51	26	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Benzo[b]fluoranthene	790		60	30	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Benzo[g,h,i]perylene	390		98	22	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Benzo[k]fluoranthene	150		39	18	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Chrysene	840	J	44	22	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Dibenz(a,h)anthracene	140		98	20	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Fluoranthene	770		98	20	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Fluorene	61	J	98	20	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Indeno[1,2,3-cd]pyrene	240		98	35	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
1-Methylnaphthalene	690		200	22	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
2-Methylnaphthalene	890		200	35	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Naphthalene	450		200	22	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Phenanthrene	940		39	19	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Pyrene	700		98	18	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		30 - 130				03/18/13 13:53	03/20/13 14:36	4

Client Sample ID: CV0910B-CS

Lab Sample ID: 680-88176-10

Date Collected: 03/07/13 10:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 79.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Acenaphthylene	19	J	51	6.3	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Anthracene	26		11	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Benzo[a]anthracene	180		10	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Benzo[a]pyrene	140	J	13	6.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Benzo[b]fluoranthene	300		15	7.7	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Benzo[g,h,i]perylene	150		25	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Benzo[k]fluoranthene	73		10	4.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Chrysene	300	J	11	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Dibenz(a,h)anthracene	47		25	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Fluoranthene	220		25	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Fluorene	31		25	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Indeno[1,2,3-cd]pyrene	67		25	9.0	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
1-Methylnaphthalene	270		51	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
2-Methylnaphthalene	330		51	9.0	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Naphthalene	180		51	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Phenanthrene	390		10	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Pyrene	210		25	4.7	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				03/18/13 13:53	03/20/13 14:55	1

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0207A-CS

Lab Sample ID: 680-88176-11

Date Collected: 03/07/13 12:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Acenaphthylene	25	J	49	6.1	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Anthracene	48	J	10	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Benzo[a]anthracene	330	J	9.8	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Benzo[a]pyrene	410	J	13	6.3	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Benzo[b]fluoranthene	640	J	15	7.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Benzo[g,h,i]perylene	330	J	24	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Benzo[k]fluoranthene	240	J	9.8	4.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Chrysene	440	J	11	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Dibenz[a,h]anthracene	94	J	24	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Fluoranthene	490	J	24	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Fluorene	16	J	24	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Indeno[1,2,3-cd]pyrene	320	J	24	8.7	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
1-Methylnaphthalene	97	J	49	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
2-Methylnaphthalene	130	J	49	8.7	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Naphthalene	87	J	49	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Phenanthrene	250	J	9.8	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Pyrene	470	J	24	4.5	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		30 - 130				03/18/13 13:53	03/20/13 15:13	1

Client Sample ID: CV0207A-CSD

Lab Sample ID: 680-88176-12

Date Collected: 03/07/13 12:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Acenaphthylene	21	J	47	5.9	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Anthracene	20	J	9.9	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Benzo[a]anthracene	200	J	9.4	4.6	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Benzo[a]pyrene	250	J	12	6.1	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Benzo[b]fluoranthene	380	J	14	7.2	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Benzo[g,h,i]perylene	230	J	24	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Benzo[k]fluoranthene	170	J	9.4	4.2	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Chrysene	220	J	11	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Dibenz[a,h]anthracene	68	J	24	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Fluoranthene	230	J	24	4.7	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Fluorene	11	J	24	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Indeno[1,2,3-cd]pyrene	180	J	24	8.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
1-Methylnaphthalene	49	J	47	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
2-Methylnaphthalene	69	J	47	8.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Naphthalene	52	J	47	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Phenanthrene	110	J	9.4	4.6	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Pyrene	240	J	24	4.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	40		30 - 130				03/18/13 13:53	03/20/13 15:31	1

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0207B-CS

Lab Sample ID: 680-88176-13

Date Collected: 03/07/13 12:40

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Acenaphthylene	35	J	51	6.4	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Anthracene	54		11	5.3	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Benzo[a]anthracene	200		10	5.0	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Benzo[a]pyrene	200	J	13	6.6	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Benzo[b]fluoranthene	440		15	7.7	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Benzo[g,h,i]perylene	190		25	5.6	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Benzo[k]fluoranthene	91		10	4.6	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Chrysene	450	J	11	5.7	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Dibenz(a,h)anthracene	76		25	5.2	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Fluoranthene	320		25	5.1	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Fluorene	42		25	5.2	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Indeno[1,2,3-cd]pyrene	97		25	9.0	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
1-Methylnaphthalene	380		51	5.6	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
2-Methylnaphthalene	390		51	9.0	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Naphthalene	280		51	5.6	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Phenanthrene	450		10	5.0	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Pyrene	330		25	4.7	ug/Kg	☐	03/18/13 13:53	03/20/13 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130				03/18/13 13:53	03/20/13 15:50	1

Client Sample ID: CV0252A-CS

Lab Sample ID: 680-88176-14

Date Collected: 03/07/13 13:00

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 72.8

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	27	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Acenaphthylene	190		55	6.8	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Anthracene	140		11	5.7	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Benzo[a]anthracene	560		11	5.3	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Benzo[a]pyrene	610	J	14	7.1	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Benzo[b]fluoranthene	1200		17	8.3	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Benzo[g,h,i]perylene	490		27	6.0	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Benzo[k]fluoranthene	380		11	4.9	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Chrysene	710	J	12	6.1	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Dibenz(a,h)anthracene	150		27	5.6	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Fluoranthene	760		27	5.5	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Fluorene	49		27	5.6	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Indeno[1,2,3-cd]pyrene	400		27	9.7	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
1-Methylnaphthalene	280		55	6.0	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
2-Methylnaphthalene	200		55	9.7	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Naphthalene	210		55	6.0	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Phenanthrene	590		11	5.3	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Pyrene	780		27	5.0	ug/Kg	☐	03/18/13 13:53	03/20/13 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	54		30 - 130				03/18/13 13:53	03/20/13 16:08	1

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0473B-CS

Lab Sample ID: 680-88176-15

Date Collected: 03/07/13 13:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Acenaphthylene	13	J	48	6.0	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Anthracene	11		10	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Benzo[a]anthracene	56		9.5	4.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Benzo[a]pyrene	47	J	12	6.2	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Benzo[b]fluoranthene	100		15	7.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Benzo[g,h,i]perylene	51		24	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Benzo[k]fluoranthene	33		9.5	4.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Chrysene	160	J	11	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Dibenz(a,h)anthracene	16	J	24	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Fluoranthene	110		24	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Fluorene	16	J	24	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Indeno[1,2,3-cd]pyrene	33		24	8.5	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
1-Methylnaphthalene	60		48	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
2-Methylnaphthalene	77		48	8.5	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Naphthalene	67		48	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Phenanthrene	180		9.5	4.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Pyrene	120		24	4.4	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	33		30 - 130	03/18/13 13:53	03/20/13 16:27	1

Client Sample ID: CV0473A-CS

Lab Sample ID: 680-88176-16

Date Collected: 03/07/13 13:30

Matrix: Solid

Date Received: 03/09/13 09:57

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	130	U	130	26	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Acenaphthylene	10	J	52	6.5	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Anthracene	8.6	J	11	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Benzo[a]anthracene	51		10	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Benzo[a]pyrene	43	J	14	6.8	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Benzo[b]fluoranthene	110		16	7.9	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Benzo[g,h,i]perylene	41		26	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Benzo[k]fluoranthene	37		10	4.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Chrysene	100	J	12	5.9	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Dibenz(a,h)anthracene	20	J	26	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Fluoranthene	83		26	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Fluorene	6.9	J	26	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Indeno[1,2,3-cd]pyrene	23	J	26	9.2	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
1-Methylnaphthalene	46	J	52	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
2-Methylnaphthalene	49	J	52	9.2	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Naphthalene	44	J	52	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Phenanthrene	88		10	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Pyrene	95		26	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	44		30 - 130	03/18/13 13:53	03/20/13 16:45	1

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0457A-CS

Lab Sample ID: 680-88176-17

Date Collected: 03/07/13 14:00

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 83.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	94	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Anthracene	71		40	20	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Benzo[a]anthracene	920		38	18	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Benzo[a]pyrene	1900	J	49	25	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Benzo[b]fluoranthene	2900		58	29	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Benzo[g,h,i]perylene	1400		94	21	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Benzo[k]fluoranthene	970		38	17	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Chrysene	930	J	42	21	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Dibenz(a,h)anthracene	390		94	19	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Fluoranthene	1100		94	19	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Fluorene	22	J	94	19	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Indeno[1,2,3-cd]pyrene	1400		94	34	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
1-Methylnaphthalene	92	J	190	21	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
2-Methylnaphthalene	150	J	190	34	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Naphthalene	110	J	190	21	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Phenanthrene	420		38	18	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Pyrene	690		94	17	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		30 - 130				03/18/13 13:53	03/20/13 17:03	4

Client Sample ID: CV0067A-CS

Lab Sample ID: 680-88176-18

Date Collected: 03/07/13 14:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 80.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Acenaphthylene	22	J	50	6.2	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Anthracene	34		10	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Benzo[a]anthracene	130		9.9	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Benzo[a]pyrene	130	J	13	6.5	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Benzo[b]fluoranthene	240		15	7.6	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Benzo[g,h,i]perylene	120		25	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Benzo[k]fluoranthene	56		9.9	4.5	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Chrysene	280	J	11	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Dibenz(a,h)anthracene	33		25	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Fluoranthene	240		25	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Fluorene	17	J	25	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Indeno[1,2,3-cd]pyrene	79		25	8.8	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
1-Methylnaphthalene	160		50	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
2-Methylnaphthalene	150		50	8.8	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Naphthalene	120		50	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Phenanthrene	350		9.9	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Pyrene	240		25	4.6	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	36		30 - 130				03/18/13 13:53	03/20/13 17:22	1

TestAmerica Savannah

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

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0067B-CS

Lab Sample ID: 680-88176-19

Date Collected: 03/07/13 14:40

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 75.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	57	J	130	26	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Acenaphthylene	21	J	52	6.4	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Anthracene	74		11	5.4	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Benzo[a]anthracene	280		10	5.0	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Benzo[a]pyrene	220	J	13	6.7	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Benzo[b]fluoranthene	410		16	7.9	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Benzo[g,h,i]perylene	180		26	5.7	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Benzo[k]fluoranthene	140		10	4.6	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Chrysene	380	J	12	5.8	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Dibenz(a,h)anthracene	70		26	5.3	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Fluoranthene	490		26	5.2	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Fluorene	41		26	5.3	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Indeno[1,2,3-cd]pyrene	120		26	9.2	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
1-Methylnaphthalene	180		52	5.7	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
2-Methylnaphthalene	240		52	9.2	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Naphthalene	210		52	5.7	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Phenanthrene	470		10	5.0	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	1
Pyrene	460		26	4.8	ug/Kg	☆	03/18/13 13:53	03/20/13 17:40	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>	61		30 - 130				03/18/13 13:53	03/20/13 17:40	1

Client Sample ID: CV0590A-CS

Lab Sample ID: 680-88176-20

Date Collected: 03/07/13 15:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 82.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	31	J	120	24	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Acenaphthylene	37	J	49	6.1	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Anthracene	150		10	5.1	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Benzo[a]anthracene	2200		9.8	4.8	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Benzo[a]pyrene	3400	J	13	6.3	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Benzo[g,h,i]perylene	3200		24	5.4	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Benzo[k]fluoranthene	2700		9.8	4.4	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Chrysene	2900	J	11	5.5	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Dibenz(a,h)anthracene	1100		24	5.0	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Fluoranthene	2200		24	4.9	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Fluorene	58		24	5.0	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Indeno[1,2,3-cd]pyrene	3100		24	8.7	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
1-Methylnaphthalene	170		49	5.4	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
2-Methylnaphthalene	190		49	8.7	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Naphthalene	180		49	5.4	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Phenanthrene	800		9.8	4.8	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	1
Pyrene	2100		24	4.5	ug/Kg	☆	03/18/13 13:53	03/20/13 17:59	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>	49		30 - 130				03/18/13 13:53	03/20/13 17:59	1

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

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
SDG: 68088176-1

Client Sample ID: CV0590A-CS

Lab Sample ID: 680-88176-20

Date Collected: 03/07/13 15:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Benzo[b]fluoranthene	5700		60	30	ug/Kg	*	03/18/13 13:53	03/21/13 12:29	4



ANALYTICAL REPORT

Job Number: 680-88176-1

SDG Number: 68088176-1

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.
Lisa Harvey
Project Manager II
3/21/2013 5:43 PM

Lisa Harvey
Project Manager II
lisa.harvey@testamericainc.com
03/21/2013

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: 680-88176-1

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 03/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0348A-CS (680-88176-1), CV0348A-CSD (680-88176-2), CV0348B-CS (680-88176-3), CV0827A-CS (680-88176-4), CV0827B-CS (680-88176-5), CV0827C-CS (680-88176-6), CV0853A-CS (680-88176-7), CV0853B-GS (680-88176-8), CV0910A-CS (680-88176-9), CV0910B-CS (680-88176-10), CV0207A-CS (680-88176-11), CV0207A-CSD (680-88176-12), CV0207B-CS (680-88176-13), CV0252A-CS (680-88176-14), CV0473B-CS (680-88176-15), CV0473A-CS (680-88176-16), CV0457A-CS (680-88176-17), CV0067A-CS (680-88176-18), CV0067B-CS (680-88176-19) and CV0590A-CS (680-88176-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C.

Several analytes were outside laboratory control limits in the MS and MSD of sample CV0827B-CS (680-88176-5) in batch 660-135624.

Method(s) 8270C LL: The following samples were diluted due to the color of the extracts: CV0348A-CS (680-88176-1), FM0116B-CS-SP (680-88118-21), FM0116B-CS-SP (680-88118-21 MS), FM0116B-CS-SP (680-88118-21 MSD). Elevated reporting limits (RL) are provided. Batch: 135469.

Method(s) 8270C LL: The following samples were diluted due to the color of the extracts: CV0457A-CS (680-88176-17), CV0827A-CS (680-88176-4), CV0827B-CS (680-88176-5), CV0827B-CS (680-88176-5 MS), CV0827B-CS (680-88176-5 MSD), CV0827C-CS (680-88176-6), CV0853B-GS (680-88176-8), CV0910A-CS (680-88176-9). Elevated reporting limits (RL) are provided. Batch: 135624.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88176-1

Sdg Number: 68088176-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-88176-1	CV0348A-CS	Solid	03/07/2013 0850	03/09/2013 0957
680-88176-2	CV0348A-CSD	Solid	03/07/2013 0850	03/09/2013 0957
680-88176-3	CV0348B-CS	Solid	03/07/2013 0900	03/09/2013 0957
680-88176-4	CV0827A-CS	Solid	03/07/2013 0920	03/09/2013 0957
680-88176-5	CV0827B-CS	Solid	03/07/2013 0930	03/09/2013 0957
680-88176-5MS	CV0827B-CS	Solid	03/07/2013 0930	03/09/2013 0957
680-88176-5MSD	CV0827B-CS	Solid	03/07/2013 0930	03/09/2013 0957
680-88176-6	CV0827C-CS	Solid	03/07/2013 0940	03/09/2013 0957
680-88176-7	CV0853A-CS	Solid	03/07/2013 1055	03/09/2013 0957
680-88176-8	CV0853B-GS	Solid	03/07/2013 1105	03/09/2013 0957
680-88176-9	CV0910A-CS	Solid	03/07/2013 1010	03/09/2013 0957
680-88176-10	CV0910B-CS	Solid	03/07/2013 1020	03/09/2013 0957
680-88176-11	CV0207A-CS	Solid	03/07/2013 1230	03/09/2013 0957
680-88176-12	CV0207A-CSD	Solid	03/07/2013 1230	03/09/2013 0957
680-88176-13	CV0207B-CS	Solid	03/07/2013 1240	03/09/2013 0957
680-88176-14	CV0252A-CS	Solid	03/07/2013 1300	03/09/2013 0957
680-88176-15	CV0473B-CS	Solid	03/07/2013 1320	03/09/2013 0957
680-88176-16	CV0473A-CS	Solid	03/07/2013 1330	03/09/2013 0957
680-88176-17	CV0457A-CS	Solid	03/07/2013 1400	03/09/2013 0957
680-88176-18	CV0067A-CS	Solid	03/07/2013 1430	03/09/2013 0957
680-88176-19	CV0067B-CS	Solid	03/07/2013 1440	03/09/2013 0957
680-88176-20	CV0590A-CS	Solid	03/07/2013 1520	03/09/2013 0957

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88176-1
Sdg Number: 68088176-1

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: 680-88176-1

Sdg Number: 68088176-1

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: 680-88176-1

Sdg Number: 68088176-1

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: 680-88176-1

Sdg Number: 68088176-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS Semi VOA					
Prep Batch: 660-135392					
LCS 660-135392/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135392/1-A	Method Blank	T	Solid	3546	
680-88118-A-21-B MS	Matrix Spike	T	Solid	3546	
680-88118-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88176-1	CV0348A-CS	T	Solid	3546	
Analysis Batch:660-135469					
LCS 660-135392/2-A	Lab Control Sample	T	Solid	8270C LL	660-135392
MB 660-135392/1-A	Method Blank	T	Solid	8270C LL	660-135392
680-88118-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-135392
680-88118-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135392
680-88176-1	CV0348A-CS	T	Solid	8270C LL	660-135392
Prep Batch: 660-135508					
LCS 660-135508/2-A	Lab Control Sample	T	Solid	3546	
MB 660-135508/1-A	Method Blank	T	Solid	3546	
680-88176-2	CV0348A-CSD	T	Solid	3546	
680-88176-3	CV0348B-CS	T	Solid	3546	
680-88176-4	CV0827A-CS	T	Solid	3546	
680-88176-5	CV0827B-CS	T	Solid	3546	
680-88176-5MS	Matrix Spike	T	Solid	3546	
680-88176-5MSD	Matrix Spike Duplicate	T	Solid	3546	
680-88176-6	CV0827C-CS	T	Solid	3546	
680-88176-7	CV0853A-CS	T	Solid	3546	
680-88176-8	CV0853B-GS	T	Solid	3546	
680-88176-9	CV0910A-CS	T	Solid	3546	
680-88176-10	CV0910B-CS	T	Solid	3546	
680-88176-11	CV0207A-CS	T	Solid	3546	
680-88176-12	CV0207A-CSD	T	Solid	3546	
680-88176-13	CV0207B-CS	T	Solid	3546	
680-88176-14	CV0252A-CS	T	Solid	3546	
680-88176-15	CV0473B-CS	T	Solid	3546	
680-88176-16	CV0473A-CS	T	Solid	3546	
680-88176-17	CV0457A-CS	T	Solid	3546	
680-88176-18	CV0067A-CS	T	Solid	3546	
680-88176-19	CV0067B-CS	T	Solid	3546	
680-88176-20	CV0590A-CS	T	Solid	3546	
680-88176-20DL	CV0590A-CS	T	Solid	3546	

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88176-1

Sdg Number: 68088176-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-135624					
LCS 660-135508/2-A	Lab Control Sample	T	Solid	8270C LL	660-135508
MB 660-135508/1-A	Method Blank	T	Solid	8270C LL	660-135508
680-88176-2	CV0348A-CSD	T	Solid	8270C LL	660-135508
680-88176-3	CV0348B-CS	T	Solid	8270C LL	660-135508
680-88176-4	CV0827A-CS	T	Solid	8270C LL	660-135508
680-88176-5	CV0827B-CS	T	Solid	8270C LL	660-135508
680-88176-5MS	Matrix Spike	T	Solid	8270C LL	660-135508
680-88176-5MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-135508
680-88176-6	CV0827C-CS	T	Solid	8270C LL	660-135508
680-88176-7	CV0853A-CS	T	Solid	8270C LL	660-135508
680-88176-8	CV0853B-GS	T	Solid	8270C LL	660-135508
680-88176-9	CV0910A-CS	T	Solid	8270C LL	660-135508
680-88176-10	CV0910B-CS	T	Solid	8270C LL	660-135508
680-88176-11	CV0207A-CS	T	Solid	8270C LL	660-135508
680-88176-12	CV0207A-CSD	T	Solid	8270C LL	660-135508
680-88176-13	CV0207B-CS	T	Solid	8270C LL	660-135508
680-88176-14	CV0252A-CS	T	Solid	8270C LL	660-135508
680-88176-15	CV0473B-CS	T	Solid	8270C LL	660-135508
680-88176-16	CV0473A-CS	T	Solid	8270C LL	660-135508
680-88176-17	CV0457A-CS	T	Solid	8270C LL	660-135508
680-88176-18	CV0067A-CS	T	Solid	8270C LL	660-135508
680-88176-19	CV0067B-CS	T	Solid	8270C LL	660-135508
680-88176-20	CV0590A-CS	T	Solid	8270C LL	660-135508
Analysis Batch:660-135643					
680-88176-20DL	CV0590A-CS	T	Solid	8270C LL	660-135508

Report Basis

T = Total

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88176-1

Sdg Number: 68088176-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-135352					
MB 660-135352/1	Method Blank	T	Solid	Moisture	
680-88176-1	CV0348A-CS	T	Solid	Moisture	
680-88176-2	CV0348A-CSD	T	Solid	Moisture	
680-88176-3	CV0348B-CS	T	Solid	Moisture	
680-88176-4	CV0827A-CS	T	Solid	Moisture	
680-88176-5	CV0827B-CS	T	Solid	Moisture	
680-88176-5MS	Matrix Spike	T	Solid	Moisture	
680-88176-5MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-88176-6	CV0827C-CS	T	Solid	Moisture	
680-88176-7	CV0853A-CS	T	Solid	Moisture	
680-88176-8	CV0853B-GS	T	Solid	Moisture	
680-88176-9	CV0910A-CS	T	Solid	Moisture	
680-88176-10	CV0910B-CS	T	Solid	Moisture	
680-88176-11	CV0207A-CS	T	Solid	Moisture	
680-88176-12	CV0207A-CSD	T	Solid	Moisture	
680-88176-13	CV0207B-CS	T	Solid	Moisture	
680-88176-14	CV0252A-CS	T	Solid	Moisture	
680-88176-15	CV0473B-CS	T	Solid	Moisture	
680-88176-16	CV0473A-CS	T	Solid	Moisture	
680-88176-17	CV0457A-CS	T	Solid	Moisture	
680-88176-18	CV0067A-CS	T	Solid	Moisture	
680-88176-19	CV0067B-CS	T	Solid	Moisture	
680-88176-20	CV0590A-CS	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1SDG No.: 68088176-1Instrument 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.: 680-88176-1SDG No.: 68088176-1Instrument ID: BSMC5973 Analysis Batch Number: 134776Lab 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.: 680-88176-1

SDG No.: 68088176-1

Instrument ID: BSMC5973 Analysis Batch Number: 135469

Lab Sample ID: CCVIS 660-135469/3 Client Sample ID: _____

Date Analyzed: 03/15/13 14:42 Lab File ID: 1CC15003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.11	Split Peak	cantins	03/15/13 15:05

Lab Sample ID: LCS 660-135392/2-A Client Sample ID: _____

Date Analyzed: 03/15/13 17:09 Lab File ID: 1CC15007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 13:07

Lab Sample ID: 680-88118-A-21-B MS Client Sample ID: _____

Date Analyzed: 03/15/13 17:46 Lab File ID: 1CC15009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	4.85	Baseline Event	cantins	03/19/13 13:10
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/19/13 13:11

Lab Sample ID: 680-88118-A-21-C MSD Client Sample ID: _____

Date Analyzed: 03/15/13 18:04 Lab File ID: 1CC15010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/19/13 13:11

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1SDG No.: 68088176-1Instrument ID: BSMC5973 Analysis Batch Number: 135469Lab Sample ID: 680-88176-1 Client Sample ID: CV0348A-CSDate Analyzed: 03/15/13 23:52 Lab File ID: 1CC15029.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/19/13 14:13
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/19/13 14:13
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/19/13 14:14
Dibenz(a,h)anthracene	10.10	Baseline Event	cantins	03/19/13 14:14

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1SDG No.: 68088176-1Instrument ID: BSMC5973 Analysis Batch Number: 135624Lab Sample ID: CCVIS 660-135624/3 Client Sample ID: _____Date Analyzed: 03/20/13 10:36 Lab File ID: 1CC20003.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/20/13 10:52

Lab Sample ID: LCS 660-135508/2-A Client Sample ID: _____Date Analyzed: 03/20/13 11:32 Lab File ID: 1CC20006.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/20/13 16:28

Lab Sample ID: 680-88176-2 Client Sample ID: CV0348A-CSDDate Analyzed: 03/20/13 11:51 Lab File ID: 1CC20007.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/20/13 16:35
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/20/13 16:35
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/20/13 16:35

Lab Sample ID: 680-88176-3 Client Sample ID: CV0348B-CSDate Analyzed: 03/20/13 12:09 Lab File ID: 1CC20008.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/20/13 16:36
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/20/13 16:36
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/20/13 16:37

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1SDG No.: 68088176-1Instrument ID: BSMC5973 Analysis Batch Number: 135624Lab Sample ID: 680-88176-4 Client Sample ID: CV0827A-CSDate Analyzed: 03/20/13 12:28 Lab File ID: 1CC20009.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/20/13 16:37
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/20/13 16:37
Indeno[1,2,3-cd]pyrene	10.06	Split Peak	cantins	03/20/13 16:38
Dibenz(a,h)anthracene	10.07	Baseline Event	cantins	03/20/13 16:38

Lab Sample ID: 680-88176-5 Client Sample ID: CV0827B-CSDate Analyzed: 03/20/13 12:46 Lab File ID: 1CC20010.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/20/13 16:39
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/20/13 16:39
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/20/13 16:40

Lab Sample ID: 680-88176-5 MS Client Sample ID: CV0827B-CS MSDate Analyzed: 03/20/13 13:04 Lab File ID: 1CC20011.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/20/13 16:41

Lab Sample ID: 680-88176-5 MSD Client Sample ID: CV0827B-CS MSDDate Analyzed: 03/20/13 13:23 Lab File ID: 1CC20012.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/20/13 16:41

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1SDG No.: 68088176-1Instrument ID: BSMC5973 Analysis Batch Number: 135624Lab Sample ID: 680-88176-6 Client Sample ID: CV0827C-CSDate Analyzed: 03/20/13 13:41 Lab File ID: 1CC20013.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/20/13 17:40
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/20/13 17:40
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/20/13 17:40

Lab Sample ID: 680-88176-7 Client Sample ID: CV0853A-CSDate Analyzed: 03/20/13 14:00 Lab File ID: 1CC20014.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/20/13 17:41
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/20/13 17:41
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/20/13 17:42

Lab Sample ID: 680-88176-8 Client Sample ID: CV0853B-GSDate Analyzed: 03/20/13 14:18 Lab File ID: 1CC20015.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/20/13 17:42
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/20/13 17:43
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/20/13 17:43

Lab Sample ID: 680-88176-9 Client Sample ID: CV0910A-CSDate Analyzed: 03/20/13 14:36 Lab File ID: 1CC20016.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.58	Analyte Misidentified by the Data System	cantins	03/20/13 17:44
Dibenz(a,h)anthracene	10.08	Baseline Event	cantins	03/20/13 17:45
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/20/13 17:45

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1SDG No.: 68088176-1Instrument ID: BSMC5973 Analysis Batch Number: 135624Lab Sample ID: 680-88176-10 Client Sample ID: CV0910B-CSDate Analyzed: 03/20/13 14:55 Lab File ID: 1CC20017.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/21/13 09:36

Lab Sample ID: 680-88176-11 Client Sample ID: CV0207A-CSDate Analyzed: 03/20/13 15:13 Lab File ID: 1CC20018.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/21/13 09:36
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/21/13 09:37
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/21/13 09:37

Lab Sample ID: 680-88176-12 Client Sample ID: CV0207A-CSDDate Analyzed: 03/20/13 15:31 Lab File ID: 1CC20019.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/21/13 09:37
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/21/13 09:38
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/21/13 09:38

Lab Sample ID: 680-88176-13 Client Sample ID: CV0207B-CSDate Analyzed: 03/20/13 15:50 Lab File ID: 1CC20020.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/21/13 10:00
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/21/13 10:00
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/21/13 10:01

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1SDG No.: 68088176-1Instrument ID: BSMC5973 Analysis Batch Number: 135624Lab Sample ID: 680-88176-14 Client Sample ID: CV0252A-CSDate Analyzed: 03/20/13 16:08 Lab File ID: 1CC20021.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/21/13 10:01
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/21/13 10:01
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/21/13 10:02

Lab Sample ID: 680-88176-15 Client Sample ID: CV0473B-CSDate Analyzed: 03/20/13 16:27 Lab File ID: 1CC20022.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/21/13 10:02
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/21/13 10:02
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/21/13 10:03

Lab Sample ID: 680-88176-16 Client Sample ID: CV0473A-CSDate Analyzed: 03/20/13 16:45 Lab File ID: 1CC20023.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/21/13 10:11
Benzo[k]fluoranthene	8.57	Baseline Event	cantins	03/21/13 10:11
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/21/13 10:12
Benzo[g,h,i]perylene	10.43	Baseline Event	cantins	03/21/13 10:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1SDG No.: 68088176-1Instrument ID: BSMC5973 Analysis Batch Number: 135624Lab Sample ID: 680-88176-17 Client Sample ID: CV0457A-CSDate Analyzed: 03/20/13 17:03 Lab File ID: 1CC20024.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.56	Split Peak	cantins	03/21/13 10:12
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/21/13 10:13
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/21/13 10:13

Lab Sample ID: 680-88176-18 Client Sample ID: CV0067A-CSDate Analyzed: 03/20/13 17:22 Lab File ID: 1CC20025.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.08	Split Peak	cantins	03/21/13 10:14

Lab Sample ID: 680-88176-19 Client Sample ID: CV0067B-CSDate Analyzed: 03/20/13 17:40 Lab File ID: 1CC20026.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.57	Split Peak	cantins	03/21/13 10:14
Benzo[k]fluoranthene	8.59	Baseline Event	cantins	03/21/13 10:15
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/21/13 10:15

Lab Sample ID: 680-88176-20 Client Sample ID: CV0590A-CSDate Analyzed: 03/20/13 17:59 Lab File ID: 1CC20027.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.58	Baseline Event	cantins	03/21/13 10:16
Indeno[1,2,3-cd]pyrene	10.09	Split Peak	cantins	03/21/13 10:16

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1SDG No.: 68088176-1Instrument ID: BSMC5973 Analysis Batch Number: 135643Lab Sample ID: CCVIS 660-135643/4 Client Sample ID: _____Date Analyzed: 03/21/13 11:50 Lab File ID: 1CC21004.D GC Column: DB-5MS ID: 250 (um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.07	Split Peak	cantins	03/21/13 12:08

Lab Sample ID: 680-88176-20 DL Client Sample ID: CV0590A-CS DLDate Analyzed: 03/21/13 12:29 Lab File ID: 1CC21006.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	03/21/13 12:52

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.: 680-88176-1

SDG No.: 68088176-1

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0348A-CS	680-88176-1	62
CV0348A-CSD	680-88176-2	46
CV0348B-CS	680-88176-3	70
CV0827A-CS	680-88176-4	64
CV0827B-CS	680-88176-5	73
CV0827C-CS	680-88176-6	65
CV0853A-CS	680-88176-7	63
CV0853B-GS	680-88176-8	57
CV0910A-CS	680-88176-9	73
CV0910B-CS	680-88176-10	57
CV0207A-CS	680-88176-11	60
CV0207A-CSD	680-88176-12	40
CV0207B-CS	680-88176-13	69
CV0252A-CS	680-88176-14	54
CV0473B-CS	680-88176-15	33
CV0473A-CS	680-88176-16	44
CV0457A-CS	680-88176-17	72
CV0067A-CS	680-88176-18	36
CV0067B-CS	680-88176-19	61
CV0590A-CS	680-88176-20	49
	MB 660-135392/1-A	67
	MB 660-135508/1-A	87
	LCS 660-135392/2-A	71
	LCS 660-135508/2-A	73
	680-88118-A-21-B MS	73
CV0827B-CS MS	680-88176-5 MS	62
	680-88118-A-21-C MSD	72
CV0827B-CS MSD	680-88176-5 MSD	59

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.: 680-88176-1
 SDG No.: 68088176-1
 Matrix: Solid Level: Low Lab File ID: 1CC15007.D
 Lab ID: LCS 660-135392/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	659	486	74	39-130	
Acenaphthylene	659	499	76	38-130	
Anthracene	659	482	73	37-130	
Benzo[a]anthracene	659	483	73	40-130	
Benzo[a]pyrene	659	451	68	49-130	
Benzo[b]fluoranthene	659	451	68	37-130	
Benzo[g,h,i]perylene	659	483	73	32-130	
Benzo[k]fluoranthene	659	550	83	32-130	
Chrysene	659	458	70	41-130	
Dibenz(a,h)anthracene	659	475	72	27-130	
Fluoranthene	659	497	75	40-130	
Fluorene	659	539	82	40-130	
Indeno[1,2,3-cd]pyrene	659	441	67	30-130	
1-Methylnaphthalene	659	509	77	31-130	
2-Methylnaphthalene	659	494	75	33-130	
Naphthalene	659	490	74	36-130	
Phenanthrene	659	493	75	42-130	
Pyrene	659	499	76	44-130	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Matrix: Solid Level: Low Lab File ID: 1CC20006.D
 Lab ID: LCS 660-135508/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	655	469	72	39-130	
Acenaphthylene	655	496	76	38-130	
Anthracene	655	498	76	37-130	
Benzo[a]anthracene	655	508	78	40-130	
Benzo[a]pyrene	655	494	75	49-130	
Benzo[b]fluoranthene	655	552	84	37-130	
Benzo[g,h,i]perylene	655	457	70	32-130	
Benzo[k]fluoranthene	655	517	79	32-130	
Chrysene	655	469	72	41-130	
Dibenz(a,h)anthracene	655	488	74	27-130	
Fluoranthene	655	531	81	40-130	
Fluorene	655	493	75	40-130	
Indeno[1,2,3-cd]pyrene	655	443	68	30-130	
1-Methylnaphthalene	655	531	81	31-130	
2-Methylnaphthalene	655	525	80	33-130	
Naphthalene	655	512	78	36-130	
Phenanthrene	655	493	75	42-130	
Pyrene	655	519	79	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.: 680-88176-1
 SDG No.: 68088176-1
 Matrix: Solid Level: Low Lab File ID: 1CC15009.D
 Lab ID: 680-88118-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	1010	610 U	793	78	39-130	
Acenaphthylene	1010	240 U	831	82	38-130	
Anthracene	1010	120	919	79	37-130	
Benzo[a]anthracene	1010	520	1330	80	40-130	
Benzo[a]pyrene	1010	440	1220	77	49-130	
Benzo[b]fluoranthene	1010	770	1440	66	37-130	
Benzo[g,h,i]perylene	1010	330	983	64	32-130	
Benzo[k]fluoranthene	1010	280	1210	92	32-130	
Chrysene	1010	630	1270	64	41-130	
Dibenz(a,h)anthracene	1010	110 J	867	75	27-130	
Fluoranthene	1010	1000	1730	72	40-130	
Fluorene	1010	57 J	795	73	40-130	
Indeno[1,2,3-cd]pyrene	1010	290	995	70	30-130	
1-Methylnaphthalene	1010	98 J	924	82	31-130	
2-Methylnaphthalene	1010	210 J	986	77	33-130	
Naphthalene	1010	190 J	935	74	36-130	
Phenanthrene	1010	620	1380	75	42-130	
Pyrene	1010	880	1630	74	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.: 680-88176-1
 SDG No.: 68088176-1
 Matrix: Solid Level: Low Lab File ID: 1CC20011.D
 Lab ID: 680-88176-5 MS Client ID: CV0827B-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	929	550 U	606	65	39-130	
Acenaphthylene	929	240	554	34	38-130	F
Anthracene	929	110	440	35	37-130	F
Benzo[a]anthracene	929	500	636	14	40-130	F
Benzo[a]pyrene	929	350	432	8	49-130	F
Benzo[b]fluoranthene	929	630	815	20	37-130	F
Benzo[g,h,i]perylene	929	300	533	25	32-130	F
Benzo[k]fluoranthene	929	220	386	18	32-130	F
Chrysene	929	960	1220	29	41-130	F
Dibenz(a,h)anthracene	929	100 J	319	24	27-130	F
Fluoranthene	929	740	975	25	40-130	F
Fluorene	929	100 J	720	66	40-130	
Indeno[1,2,3-cd]pyrene	929	160	334	19	30-130	F
1-Methylnaphthalene	929	1100	3490	258	31-130	F
2-Methylnaphthalene	929	1100	3340	242	33-130	F
Naphthalene	929	1700	4320	282	36-130	F
Phenanthrene	929	1200	2130	105	42-130	
Pyrene	929	700	967	29	44-130	F

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Matrix: Solid Level: Low Lab File ID: 1CC15010.D
 Lab ID: 680-88118-A-21-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	1010	757	75	5	40	39-130	
Acenaphthylene	1010	875	86	5	40	38-130	
Anthracene	1010	848	72	8	40	37-130	
Benzo[a]anthracene	1010	1330	80	0	40	40-130	
Benzo[a]pyrene	1010	1090	64	11	40	49-130	
Benzo[b]fluoranthene	1010	1480	70	2	40	37-130	
Benzo[g,h,i]perylene	1010	996	65	1	40	32-130	
Benzo[k]fluoranthene	1010	1230	94	2	40	32-130	
Chrysene	1010	1290	66	1	40	41-130	
Dibenz(a,h)anthracene	1010	824	71	5	40	27-130	
Fluoranthene	1010	1680	66	3	40	40-130	
Fluorene	1010	731	67	8	40	40-130	
Indeno[1,2,3-cd]pyrene	1010	1040	74	4	40	30-130	
1-Methylnaphthalene	1010	887	78	4	40	31-130	
2-Methylnaphthalene	1010	916	70	7	40	33-130	
Naphthalene	1010	853	66	9	40	36-130	
Phenanthrene	1010	1320	69	5	40	42-130	
Pyrene	1010	1630	74	0	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.: 680-88176-1
 SDG No.: 68088176-1
 Matrix: Solid Level: Low Lab File ID: 1CC20012.D
 Lab ID: 680-88176-5 MSD Client ID: CV0827B-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	924	483 J	52	23	40	39-130	
Acenaphthylene	924	575	36	4	40	38-130	F
Anthracene	924	565	49	25	40	37-130	
Benzo[a]anthracene	924	810	33	24	40	40-130	F
Benzo[a]pyrene	924	641	31	39	40	49-130	F
Benzo[b]fluoranthene	924	971	37	17	40	37-130	
Benzo[g,h,i]perylene	924	621	35	15	40	32-130	
Benzo[k]fluoranthene	924	691	51	57	40	32-130	F
Chrysene	924	1210	27	1	40	41-130	F
Dibenz(a,h)anthracene	924	475	40	39	40	27-130	
Fluoranthene	924	1170	46	18	40	40-130	
Fluorene	924	595	53	19	40	40-130	
Indeno[1,2,3-cd]pyrene	924	574	45	53	40	30-130	F
1-Methylnaphthalene	924	1640	60	72	40	31-130	F
2-Methylnaphthalene	924	1480	42	77	40	33-130	F
Naphthalene	924	1440	-28	100	40	36-130	F
Phenanthrene	924	1300	16	49	40	42-130	F
Pyrene	924	1080	42	12	40	44-130	F

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.: 680-88176-1
SDG No.: 68088176-1
Lab File ID: 1CC15006.D Lab Sample ID: MB 660-135392/1-A
Matrix: Solid Date Extracted: 03/14/2013 10:53
Instrument ID: BSMC5973 Date Analyzed: 03/15/2013 16:51
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135392/2-A	1CC15007.D	03/15/2013 17:09
	680-88118-A-21-B MS	1CC15009.D	03/15/2013 17:46
	680-88118-A-21-C MSD	1CC15010.D	03/15/2013 18:04
CV0348A-CS	680-88176-1	1CC15029.D	03/15/2013 23:52

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Lab File ID: 1CC20005.D Lab Sample ID: MB 660-135508/1-A
 Matrix: Solid Date Extracted: 03/18/2013 13:53
 Instrument ID: BSMC5973 Date Analyzed: 03/20/2013 11:14
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-135508/2-A	1CC20006.D	03/20/2013 11:32
CV0348A-CSD	680-88176-2	1CC20007.D	03/20/2013 11:51
CV0348B-CS	680-88176-3	1CC20008.D	03/20/2013 12:09
CV0827A-CS	680-88176-4	1CC20009.D	03/20/2013 12:28
CV0827B-CS	680-88176-5	1CC20010.D	03/20/2013 12:46
CV0827B-CS MS	680-88176-5 MS	1CC20011.D	03/20/2013 13:04
CV0827B-CS MSD	680-88176-5 MSD	1CC20012.D	03/20/2013 13:23
CV0827C-CS	680-88176-6	1CC20013.D	03/20/2013 13:41
CV0853A-CS	680-88176-7	1CC20014.D	03/20/2013 14:00
CV0853B-GS	680-88176-8	1CC20015.D	03/20/2013 14:18
CV0910A-CS	680-88176-9	1CC20016.D	03/20/2013 14:36
CV0910B-CS	680-88176-10	1CC20017.D	03/20/2013 14:55
CV0207A-CS	680-88176-11	1CC20018.D	03/20/2013 15:13
CV0207A-CSD	680-88176-12	1CC20019.D	03/20/2013 15:31
CV0207B-CS	680-88176-13	1CC20020.D	03/20/2013 15:50
CV0252A-CS	680-88176-14	1CC20021.D	03/20/2013 16:08
CV0473B-CS	680-88176-15	1CC20022.D	03/20/2013 16:27
CV0473A-CS	680-88176-16	1CC20023.D	03/20/2013 16:45
CV0457A-CS	680-88176-17	1CC20024.D	03/20/2013 17:03
CV0067A-CS	680-88176-18	1CC20025.D	03/20/2013 17:22
CV0067B-CS	680-88176-19	1CC20026.D	03/20/2013 17:40
CV0590A-CS	680-88176-20	1CC20027.D	03/20/2013 17:59
CV0590A-CS DL	680-88176-20 DL	1CC21006.D	03/21/2013 12:29

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

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 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.: 680-88176-1
 SDG No.: 68088176-1
 Lab File ID: 1CC15002.D DFTPP Injection Date: 03/15/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 14:13
 Analysis Batch No.: 135469

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	30.4
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	37.4
70	Less than 2.0 % of mass 69	0.1 (0.3)1
127	10.0 - 80.0 % of mass 198	41.7
197	Less than 2.0 % of mass 198	0.8
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.2
275	10.0 - 60.0 % of mass 198	25.6
365	Greater than 1.0 % of mass 198	5.2
441	Present but less than mass 443	15.2
442	Greater than 50.0 % of mass 198	98.7
443	15.0 - 24.0 % of mass 442	19.8 (20.1)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135469/3	1CC15003.D	03/15/2013	14:42
	MB 660-135392/1-A	1CC15006.D	03/15/2013	16:51
	LCS 660-135392/2-A	1CC15007.D	03/15/2013	17:09
	680-88118-A-21-B MS	1CC15009.D	03/15/2013	17:46
	680-88118-A-21-C MSD	1CC15010.D	03/15/2013	18:04
CV0348A-CS	680-88176-1	1CC15029.D	03/15/2013	23:52

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

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Lab File ID: 1CC20002.D DFTPP Injection Date: 03/20/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 10:19
 Analysis Batch No.: 135624

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	42.6
68	Less than 2.0 % of mass 69	1.0 (1.9)1
69	Mass 69 relative abundance	53.3
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	53.3
197	Less than 2.0 % of mass 198	1.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.4
275	10.0 - 60.0 % of mass 198	17.8
365	Greater than 1.0 % of mass 198	3.4
441	Present but less than mass 443	7.3
442	Greater than 50.0 % of mass 198	53.6
443	15.0 - 24.0 % of mass 442	9.5 (17.7)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 660-135624/3	1CC20003.D	03/20/2013	10:36
	MB 660-135508/1-A	1CC20005.D	03/20/2013	11:14
	LCS 660-135508/2-A	1CC20006.D	03/20/2013	11:32
CV0348A-CSD	680-88176-2	1CC20007.D	03/20/2013	11:51
CV0348B-CS	680-88176-3	1CC20008.D	03/20/2013	12:09
CV0827A-CS	680-88176-4	1CC20009.D	03/20/2013	12:28
CV0827B-CS	680-88176-5	1CC20010.D	03/20/2013	12:46
CV0827B-CS MS	680-88176-5 MS	1CC20011.D	03/20/2013	13:04
CV0827B-CS MSD	680-88176-5 MSD	1CC20012.D	03/20/2013	13:23
CV0827C-CS	680-88176-6	1CC20013.D	03/20/2013	13:41
CV0853A-CS	680-88176-7	1CC20014.D	03/20/2013	14:00
CV0853B-GS	680-88176-8	1CC20015.D	03/20/2013	14:18
CV0910A-CS	680-88176-9	1CC20016.D	03/20/2013	14:36
CV0910B-CS	680-88176-10	1CC20017.D	03/20/2013	14:55
CV0207A-CS	680-88176-11	1CC20018.D	03/20/2013	15:13
CV0207A-CSD	680-88176-12	1CC20019.D	03/20/2013	15:31
CV0207B-CS	680-88176-13	1CC20020.D	03/20/2013	15:50
CV0252A-CS	680-88176-14	1CC20021.D	03/20/2013	16:08
CV0473B-CS	680-88176-15	1CC20022.D	03/20/2013	16:27
CV0473A-CS	680-88176-16	1CC20023.D	03/20/2013	16:45
CV0457A-CS	680-88176-17	1CC20024.D	03/20/2013	17:03
CV0067A-CS	680-88176-18	1CC20025.D	03/20/2013	17:22
CV0067B-CS	680-88176-19	1CC20026.D	03/20/2013	17:40

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

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Lab File ID: 1CC20002.D DFTPP Injection Date: 03/20/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 10:19
 Analysis Batch No.: 135624

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	42.6
68	Less than 2.0 % of mass 69	1.0 (1.9)1
69	Mass 69 relative abundance	53.3
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	53.3
197	Less than 2.0 % of mass 198	1.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.4
275	10.0 - 60.0 % of mass 198	17.8
365	Greater than 1.0 % of mass 198	3.4
441	Present but less than mass 443	7.3
442	Greater than 50.0 % of mass 198	53.6
443	15.0 - 24.0 % of mass 442	9.5 (17.7)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
CV0590A-CS	680-88176-20	1CC20027.D	03/20/2013	17:59

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

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Lab File ID: 1CC21003.D DFTPP Injection Date: 03/21/2013
 Instrument ID: BSMC5973 DFTPP Injection Time: 11:33
 Analysis Batch No.: 135643

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	33.5
68	Less than 2.0 % of mass 69	0.6 (1.3)1
69	Mass 69 relative abundance	46.1
70	Less than 2.0 % of mass 69	0.2 (0.4)1
127	10.0 - 80.0 % of mass 198	41.9
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	6.1
275	10.0 - 60.0 % of mass 198	21.4
365	Greater than 1.0 % of mass 198	2.7
441	Present but less than mass 443	10.4
442	Greater than 50.0 % of mass 198	73.5
443	15.0 - 24.0 % of mass 442	14.8 (20.1)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-135643/4	1CC21004.D	03/21/2013	11:50
CV0590A-CS DL	680-88176-20 DL	1CC21006.D	03/21/2013	12:29

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

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 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.: 680-88176-1
 SDG No.: 68088176-1
 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.: 680-88176-1
 SDG No.: 68088176-1
 Sample No.: CCVIS 660-135469/3 Date Analyzed: 03/15/2013 14:42
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC15003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	946459	3.75	734532	4.84	1374424	5.79	
UPPER LIMIT	1892918	4.25	1469064	5.34	2748848	6.29	
LOWER LIMIT	473230	3.25	367266	4.34	687212	5.29	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135392/1-A	939347	3.75	723507	4.84	1400314	5.79	
LCS 660-135392/2-A	970938	3.75	740042	4.83	1413817	5.79	
680-88118-A-21-B MS	1152686	3.75	909744	4.83	1600846	5.79	
680-88118-A-21-C MSD	1171459	3.75	888797	4.83	1611446	5.79	
680-88176-1	CV0348A-CS	1303379	3.75	973328	4.83	1753711	5.79

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Sample No.: CCVIS 660-135469/3 Date Analyzed: 03/15/2013 14:42
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC15003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1665181	7.73	1675707	8.93		
UPPER LIMIT	3330362	8.23	3351414	9.43		
LOWER LIMIT	832591	7.23	837854	8.43		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135392/1-A		1658692	7.74	1746584	8.95	
LCS 660-135392/2-A		1770209	7.73	1805371	8.92	
680-88118-A-21-B MS		1806634	7.73	1757770	8.92	
680-88118-A-21-C MSD		1720102	7.73	1710534	8.92	
680-88176-1	CV0348A-CS	1872844	7.73	1696623	8.92	

CRY = Chrysene-d12
 PRY = Perylene-d12

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Sample No.: CCVIS 660-135624/3 Date Analyzed: 03/20/2013 10:36
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC20003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	962073	3.75	727466	4.83	1356725	5.78	
UPPER LIMIT	1924146	4.25	1454932	5.33	2713450	6.28	
LOWER LIMIT	481037	3.25	363733	4.33	678363	5.28	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-135508/1-A		755525	3.74	600985	4.83	1169250	5.77
LCS 660-135508/2-A		896119	3.74	725102	4.83	1367362	5.78
680-88176-2	CV0348A-CSD	939032	3.74	706328	4.83	1375451	5.77
680-88176-3	CV0348B-CS	934783	3.75	720653	4.83	1303541	5.78
680-88176-4	CV0827A-CS	934137	3.75	735534	4.83	1382755	5.78
680-88176-5	CV0827B-CS	802662	3.75	622368	4.83	1169208	5.78
680-88176-5 MS	CV0827B-CS MS	903215	3.75	683505	4.83	1345626	5.78
680-88176-5 MSD	CV0827B-CS MSD	961769	3.75	771963	4.83	1432138	5.78
680-88176-6	CV0827C-CS	906461	3.75	721611	4.83	1383130	5.78
680-88176-7	CV0853A-CS	928243	3.74	747727	4.83	1312096	5.78
680-88176-8	CV0853B-GS	946627	3.75	782202	4.83	1449018	5.78
680-88176-9	CV0910A-CS	933771	3.75	726046	4.83	1393302	5.78
680-88176-10	CV0910B-CS	960403	3.75	735633	4.83	1354869	5.78
680-88176-11	CV0207A-CS	933778	3.75	726464	4.83	1317304	5.78
680-88176-12	CV0207A-CSD	934662	3.75	742004	4.83	1399478	5.78
680-88176-13	CV0207B-CS	941712	3.75	718395	4.83	1367522	5.78
680-88176-14	CV0252A-CS	917301	3.75	701861	4.83	1331067	5.78
680-88176-15	CV0473B-CS	929562	3.75	718854	4.83	1375486	5.78
680-88176-16	CV0473A-CS	924654	3.75	735813	4.83	1352685	5.78
680-88176-17	CV0457A-CS	965636	3.75	743526	4.83	1422233	5.78
680-88176-18	CV0067A-CS	909460	3.75	713985	4.83	1304277	5.78
680-88176-19	CV0067B-CS	967532	3.75	761102	4.83	1379764	5.78
680-88176-20	CV0590A-CS	966415	3.75	760100	4.83	1345710	5.78

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.: 680-88176-1
 SDG No.: 68088176-1
 Sample No.: CCVIS 660-135624/3 Date Analyzed: 03/20/2013 10:36
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC20003.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1690793	7.72	1664033	8.91		
UPPER LIMIT	3381586	8.22	3328066	9.41		
LOWER LIMIT	845397	7.22	832017	8.41		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-135508/1-A		1421522	7.72	1435990	8.90	
LCS 660-135508/2-A		1730581	7.72	1672198	8.90	
680-88176-2	CV0348A-CSD	1614463	7.72	1570837	8.91	
680-88176-3	CV0348B-CS	1508789	7.72	1440446	8.90	
680-88176-4	CV0827A-CS	1562605	7.72	1573294	8.90	
680-88176-5	CV0827B-CS	1345113	7.72	1328377	8.91	
680-88176-5 MS	CV0827B-CS MS	1458983	7.72	1408198	8.91	
680-88176-5 MSD	CV0827B-CS MSD	1706830	7.72	1655391	8.91	
680-88176-6	CV0827C-CS	1546914	7.72	1500454	8.91	
680-88176-7	CV0853A-CS	1458533	7.72	1395468	8.91	
680-88176-8	CV0853B-GS	1612716	7.72	1511359	8.91	
680-88176-9	CV0910A-CS	1590707	7.72	1571922	8.91	
680-88176-10	CV0910B-CS	1530848	7.72	1412526	8.92	
680-88176-11	CV0207A-CS	1491119	7.72	1392048	8.91	
680-88176-12	CV0207A-CSD	1496446	7.72	1434049	8.91	
680-88176-13	CV0207B-CS	1458099	7.72	1382227	8.91	
680-88176-14	CV0252A-CS	1470428	7.72	1358236	8.92	
680-88176-15	CV0473B-CS	1417634	7.72	1353564	8.91	
680-88176-16	CV0473A-CS	1491154	7.72	1346846	8.91	
680-88176-17	CV0457A-CS	2512855	7.72	1434526	8.92	
680-88176-18	CV0067A-CS	1440390	7.72	1338995	8.91	
680-88176-19	CV0067B-CS	1465609	7.72	1414361	8.92	
680-88176-20	CV0590A-CS	1561025	7.73	1448491	8.92	

CRY = Chrysene-d12
 PRY = Perylene-d12

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Sample No.: CCVIS 660-135643/4 Date Analyzed: 03/21/2013 11:50
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC21004.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	NPT		ANT		PHN			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	840044	3.74	651490	4.83	1219756	5.77		
UPPER LIMIT	1680088	4.24	1302980	5.33	2439512	6.27		
LOWER LIMIT	420022	3.24	325745	4.33	609878	5.27		
LAB SAMPLE ID	CLIENT SAMPLE ID							
680-88176-20 DL	CV0590A-CS DL		846580	3.74	669418	4.83	1245520	5.77

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.: 680-88176-1
 SDG No.: 68088176-1
 Sample No.: CCVIS 660-135643/4 Date Analyzed: 03/21/2013 11:50
 Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1CC21004.D Heated Purge: (Y/N) N
 Calibration ID: 2760

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1556594	7.72	1584646	8.90		
UPPER LIMIT	3113188	8.22	3169292	9.40		
LOWER LIMIT	778297	7.22	792323	8.40		
LAB SAMPLE ID	CLIENT SAMPLE ID					
680-88176-20 DL	CV0590A-CS DL		1547673	7.72	1596754	8.90

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.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0348A-CS Lab Sample ID: 680-88176-1
 Matrix: Solid Lab File ID: 1CC15029.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 08:50
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 14.97(g) Date Analyzed: 03/15/2013 23:52
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 22.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 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	26	J	43	22
56-55-3	Benzo[a]anthracene	150		41	20
50-32-8	Benzo[a]pyrene	120		54	27
205-99-2	Benzo[b]fluoranthene	220		63	32
191-24-2	Benzo[g,h,i]perylene	100		100	23
207-08-9	Benzo[k]fluoranthene	83		41	19
218-01-9	Chrysene	140		47	23
53-70-3	Dibenz(a,h)anthracene	31	J	100	21
206-44-0	Fluoranthene	160		100	21
86-73-7	Fluorene	100	U	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	71	J	100	37
90-12-0	1-Methylnaphthalene	29	J	210	23
91-57-6	2-Methylnaphthalene	210	U	210	37
91-20-3	Naphthalene	68	J	210	23
85-01-8	Phenanthrene	140		41	20
129-00-0	Pyrene	200		100	19

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\1C031513.b\1CC15029.D
 Lab Smp Id: 680-88176-A-1-A Client Smp ID: CV0348A-CS
 Inj Date : 15-MAR-2013 23:52
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-1-a
 Misc Info : 680-88176-A-1-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 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	14.970	Weight Extracted
M	22.506	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.751	3.751	(1.000)	1303379	40.0000			
* 6 Acenaphthene-d10	164	4.833	4.839	(1.000)	973328	40.0000			
* 10 Phenanthrene-d10	188	5.786	5.786	(1.000)	1753711	40.0000			
\$ 14 o-Terphenyl	230	6.033	6.039	(1.043)	41057	1.55061	534.6508		
* 18 Chrysene-d12	240	7.727	7.733	(1.000)	1872844	40.0000			
* 23 Perylene-d12	264	8.915	8.927	(1.000)	1696623	40.0000			
2 Naphthalene	128	3.763	3.763	(1.003)	6666	0.19645	67.7370		
4 1-Methylnaphthalene	142	4.251	4.251	(1.133)	1763	0.08552	29.4886(Q)		
11 Phenanthrene	178	5.798	5.804	(1.002)	20361	0.40152	138.4452		
12 Anthracene	178	5.833	5.839	(1.008)	3766	0.07594	26.1832		
15 Fluoranthene	202	6.639	6.639	(1.147)	25823	0.46500	160.3332		
16 Pyrene	202	6.803	6.810	(0.880)	29299	0.58214	200.7219		
17 Benzo(a)anthracene	228	7.715	7.727	(0.998)	23663	0.43777	150.9425		
19 Chrysene	228	7.745	7.751	(1.002)	21464	0.39679	136.8127		

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	27678	0.62424	215.2371(M)
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	10925	0.24019	82.8175(QM)
22 Benzo(a)pyrene	252	8.856	8.874	(0.993)	15597	0.36215	124.8699
24 Indeno(1,2,3-cd)pyrene	276	10.092	10.109	(1.132)	8382	0.20689	71.3354(M)
25 Dibenzo(a,h)anthracene	278	10.103	10.127	(1.133)	3607	0.09102	31.3835(MH)
26 Benzo(g,h,i)perylene	276	10.433	10.462	(1.170)	12757	0.30100	103.7862(H)

QC Flag Legend

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

Data File: 1CC15029.D

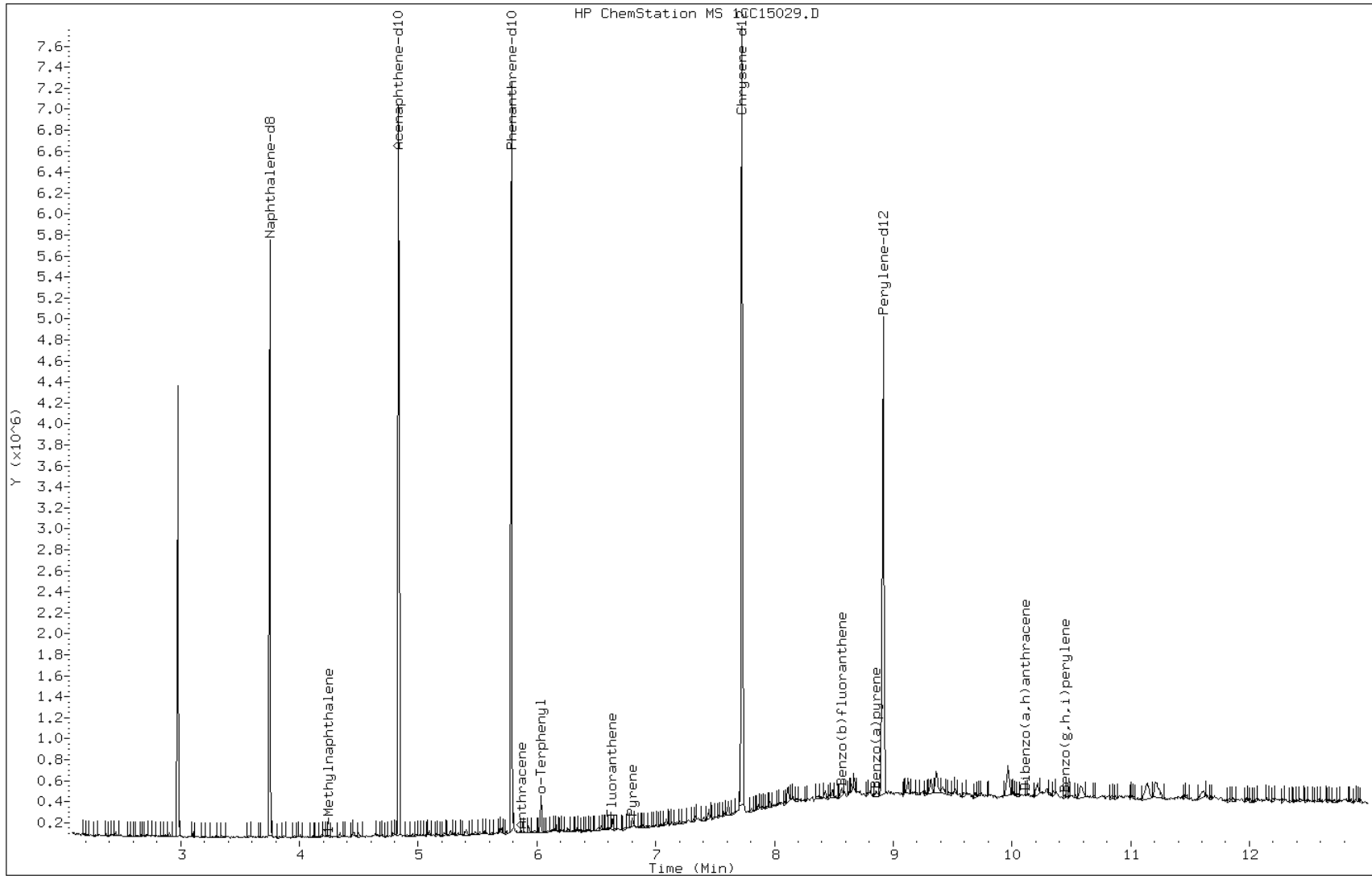
Date: 15-MAR-2013 23:52

Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

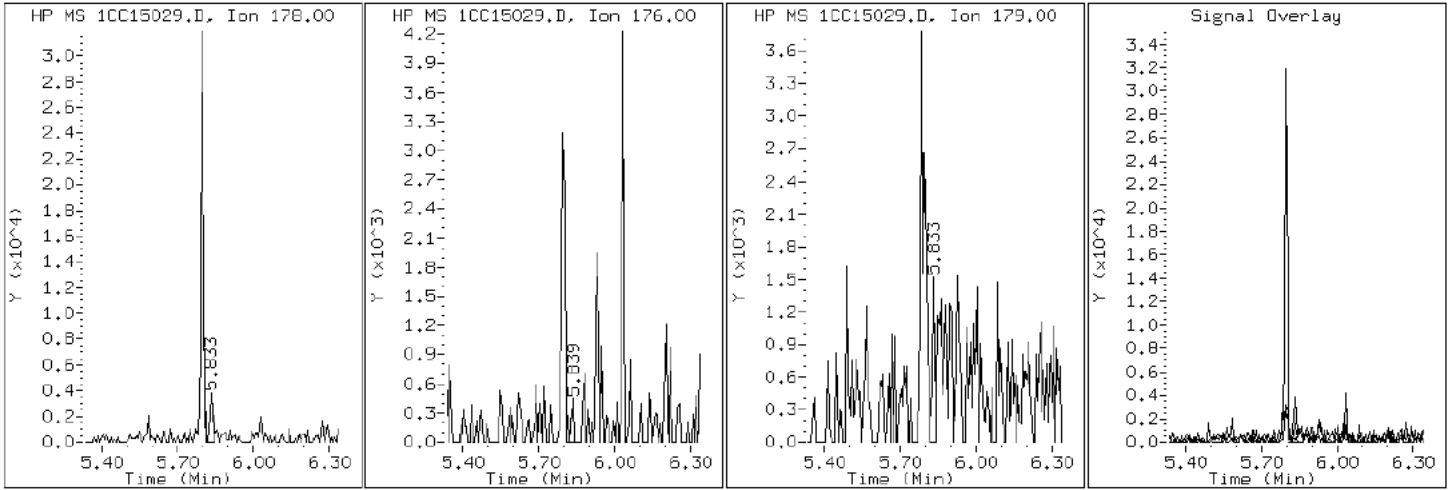
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

12 Anthracene



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

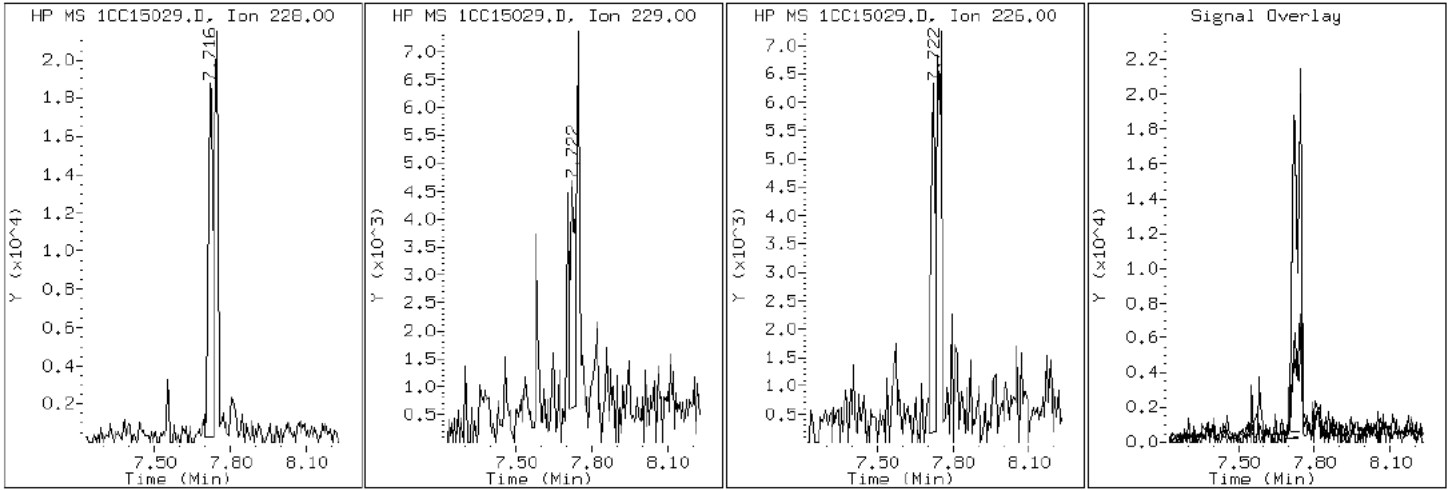
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

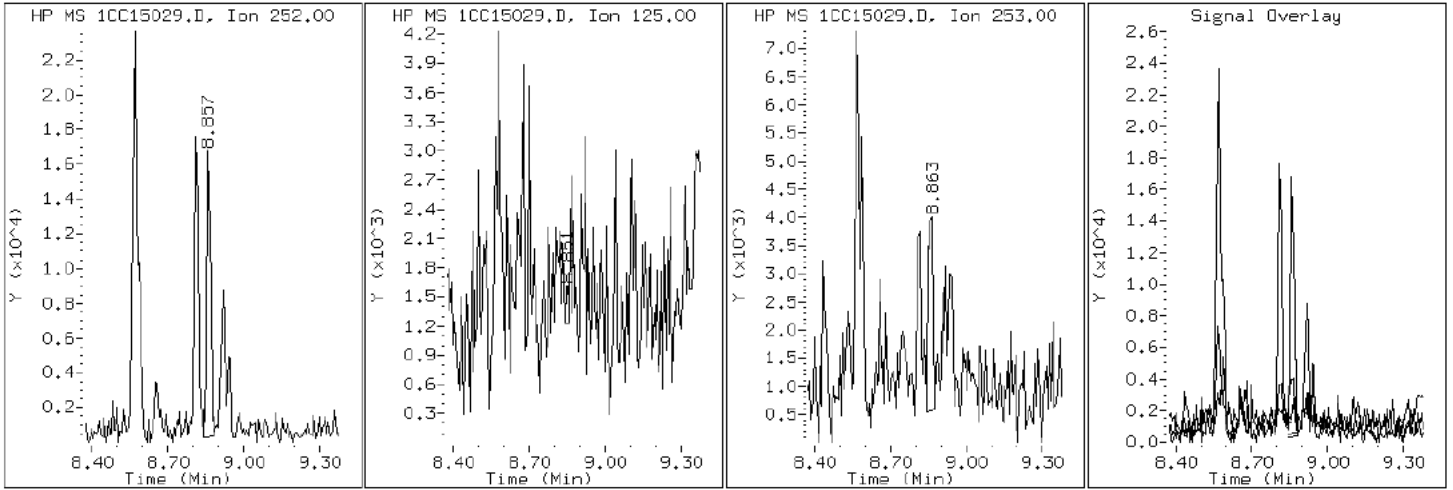
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

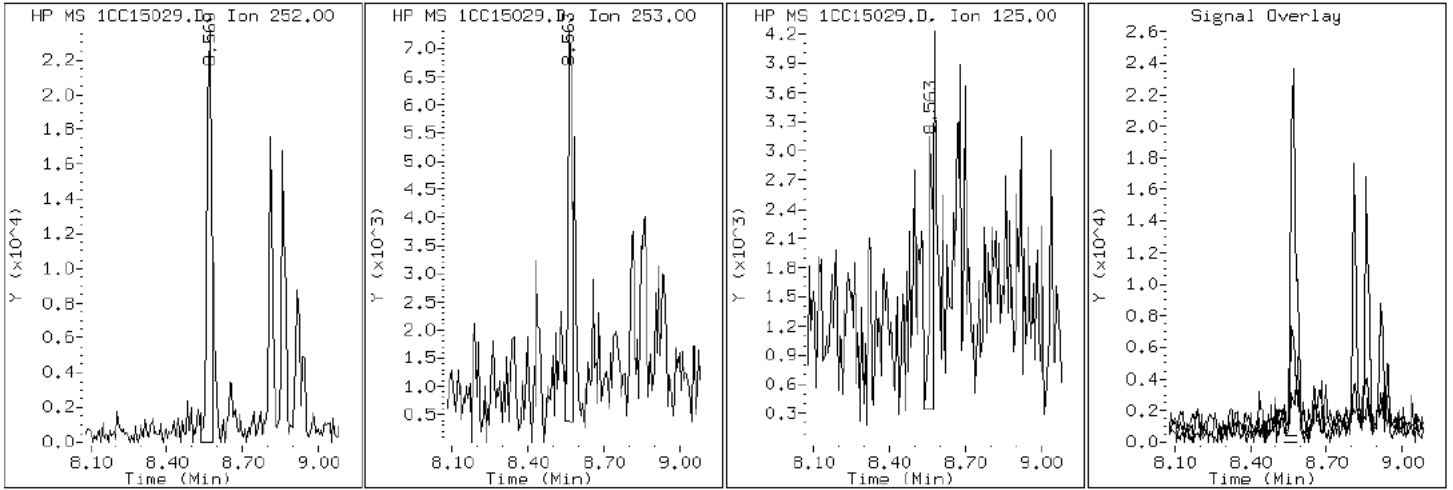
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

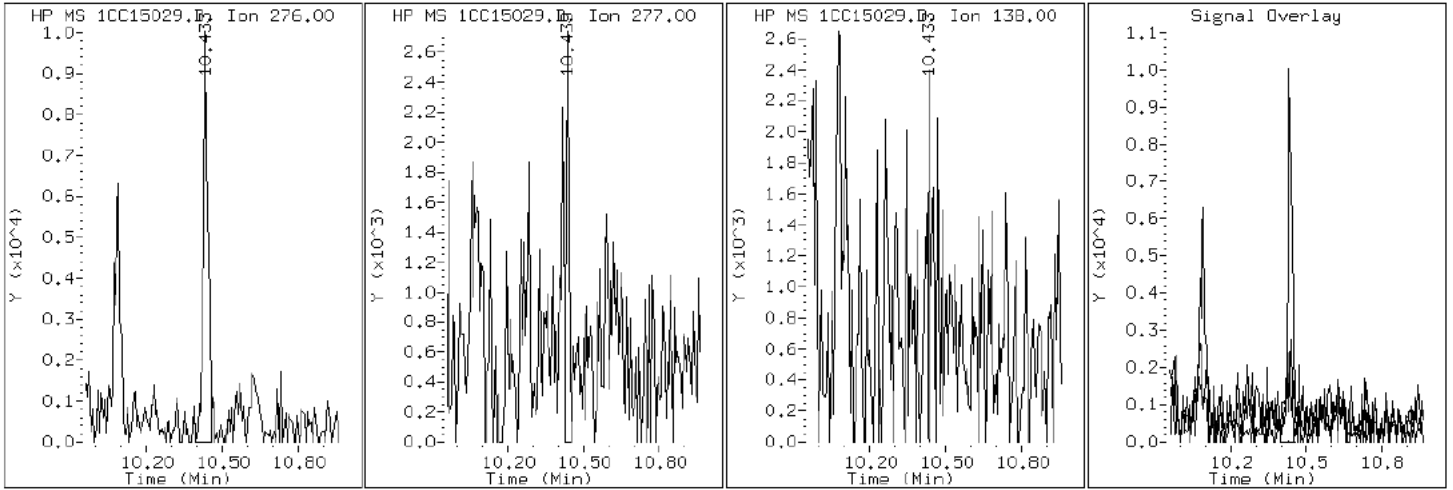
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

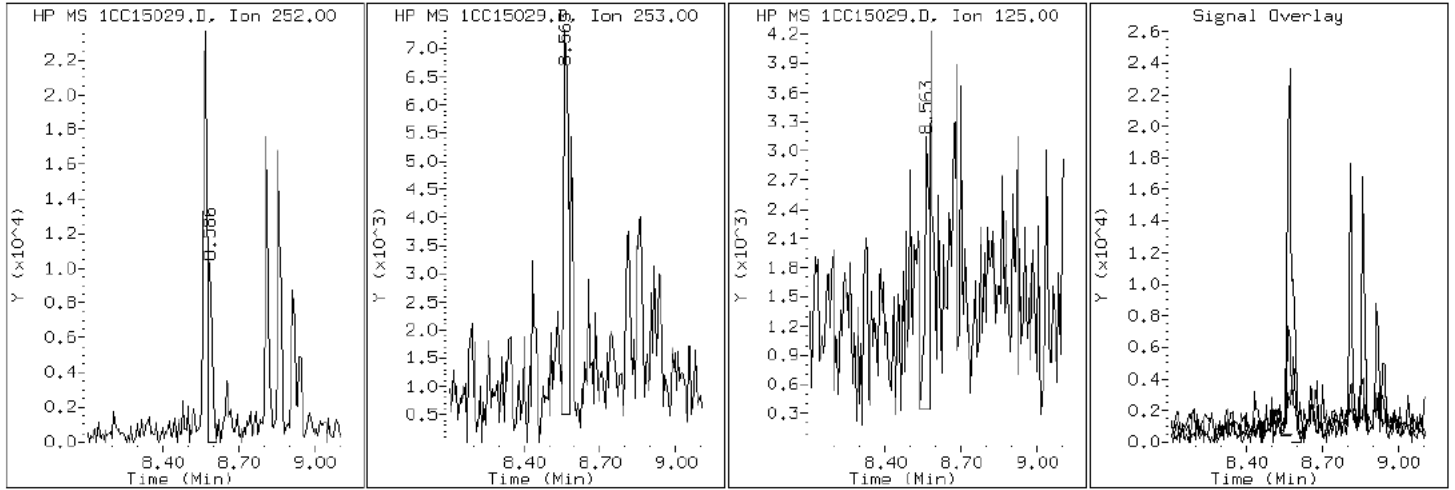
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

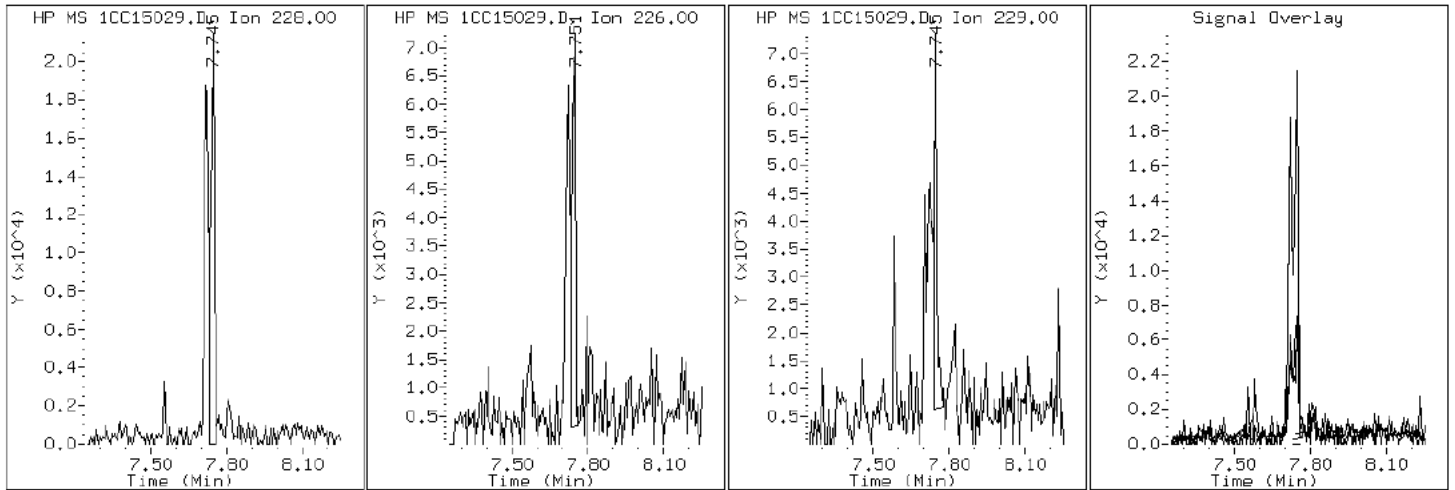
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

19 Chrysene



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

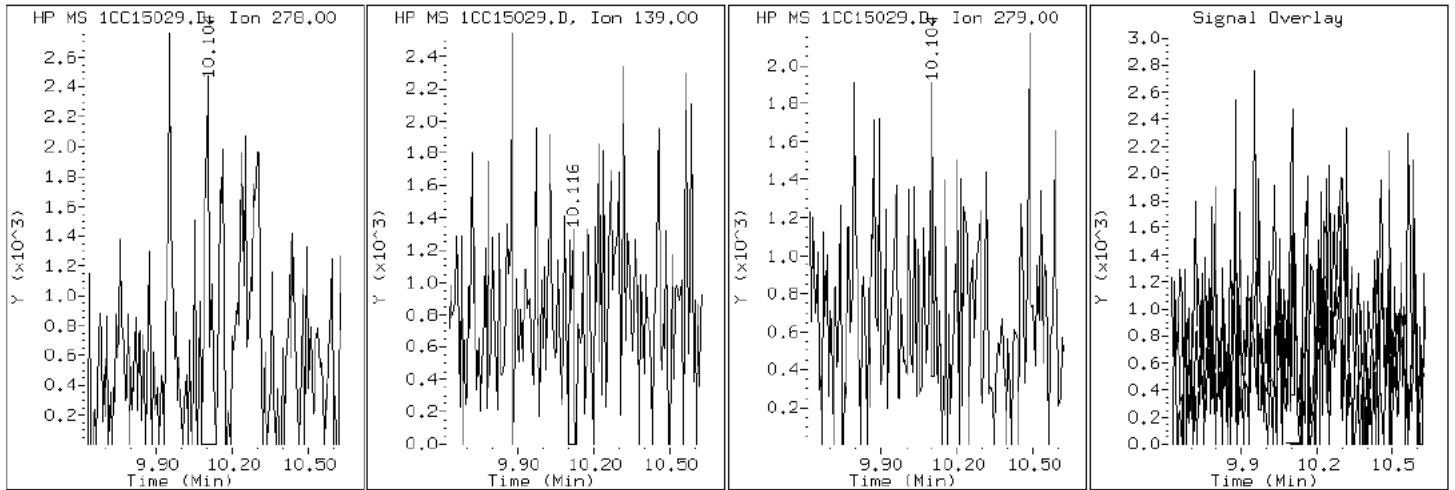
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

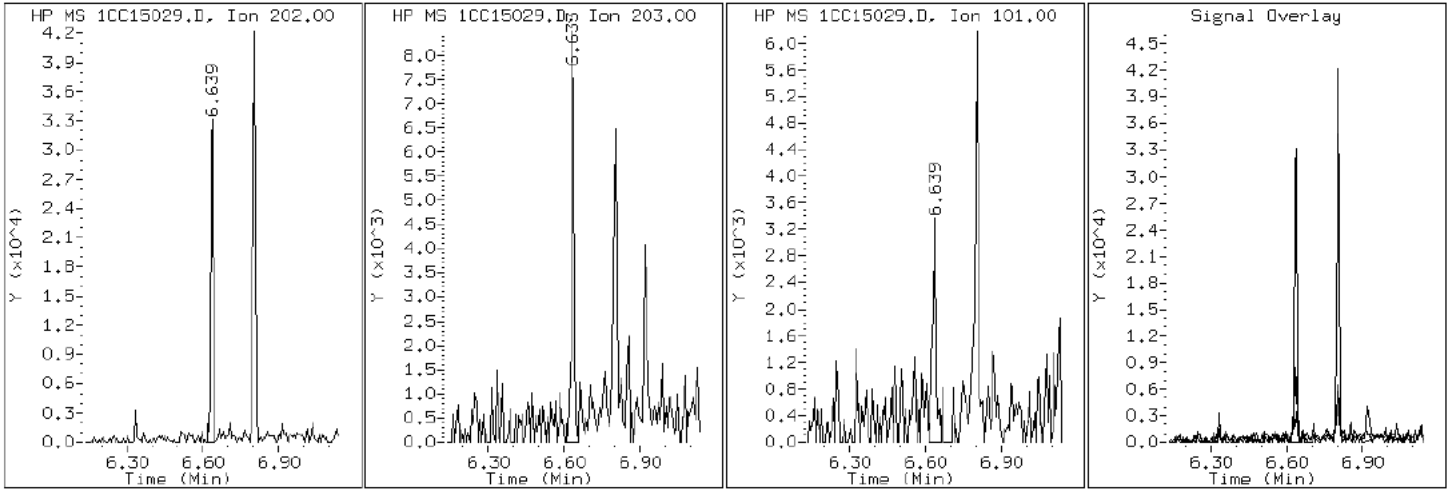
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

15 Fluoranthene



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

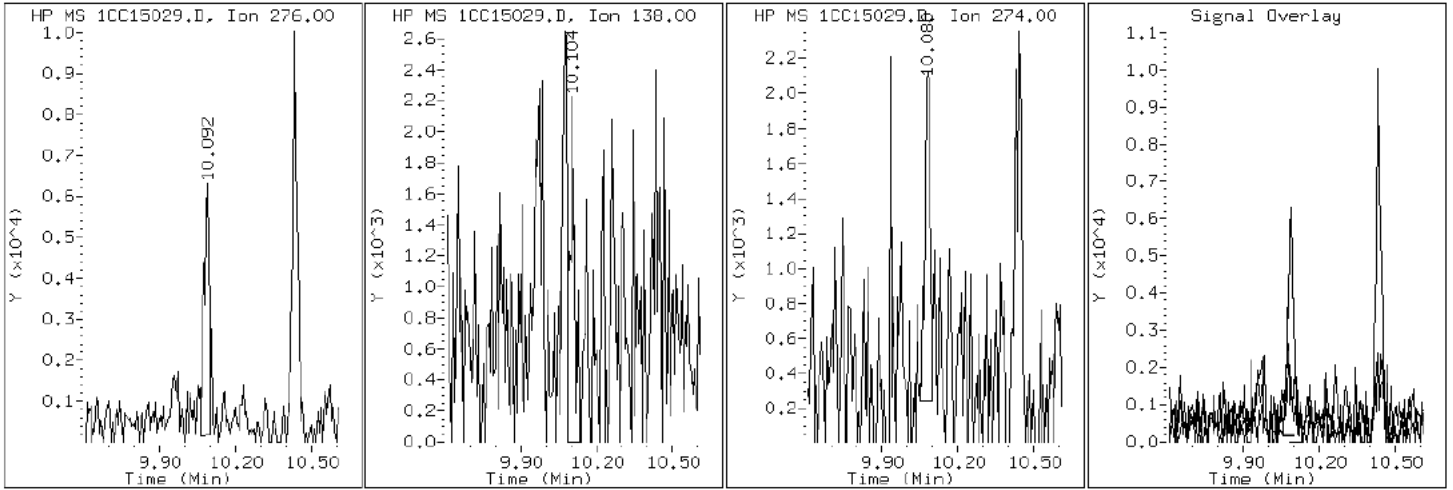
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

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



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

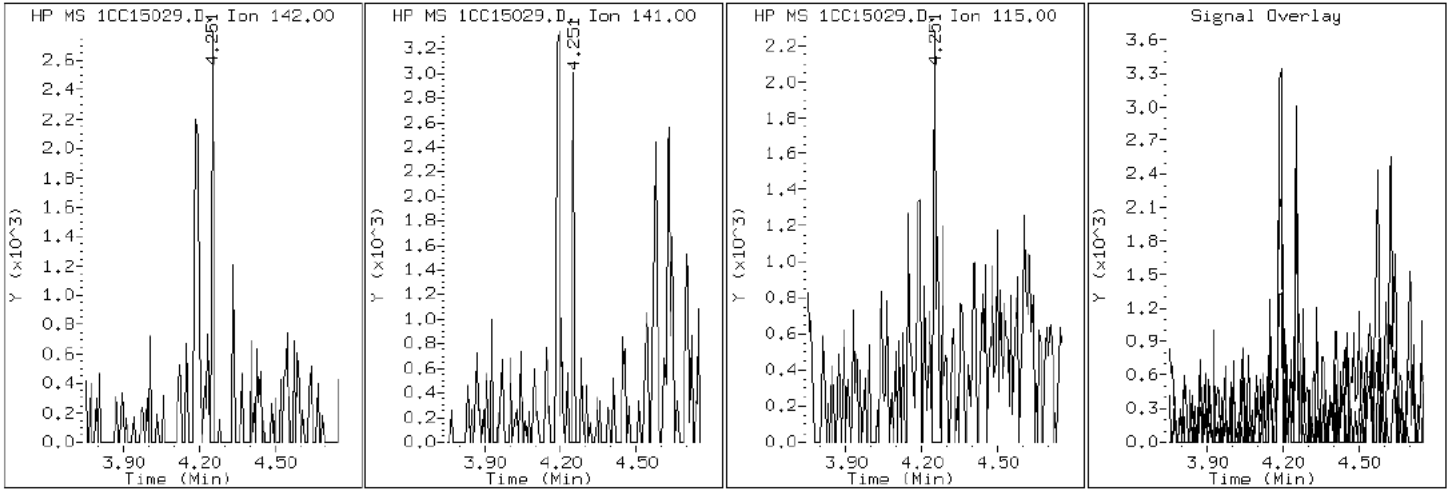
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

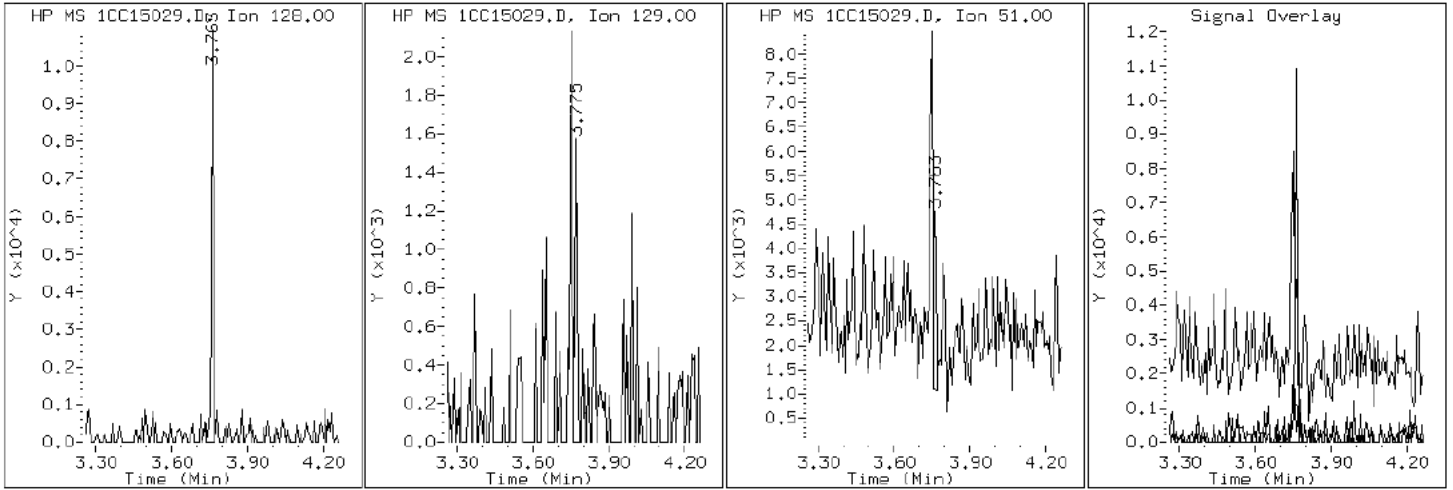
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

2 Naphthalene



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

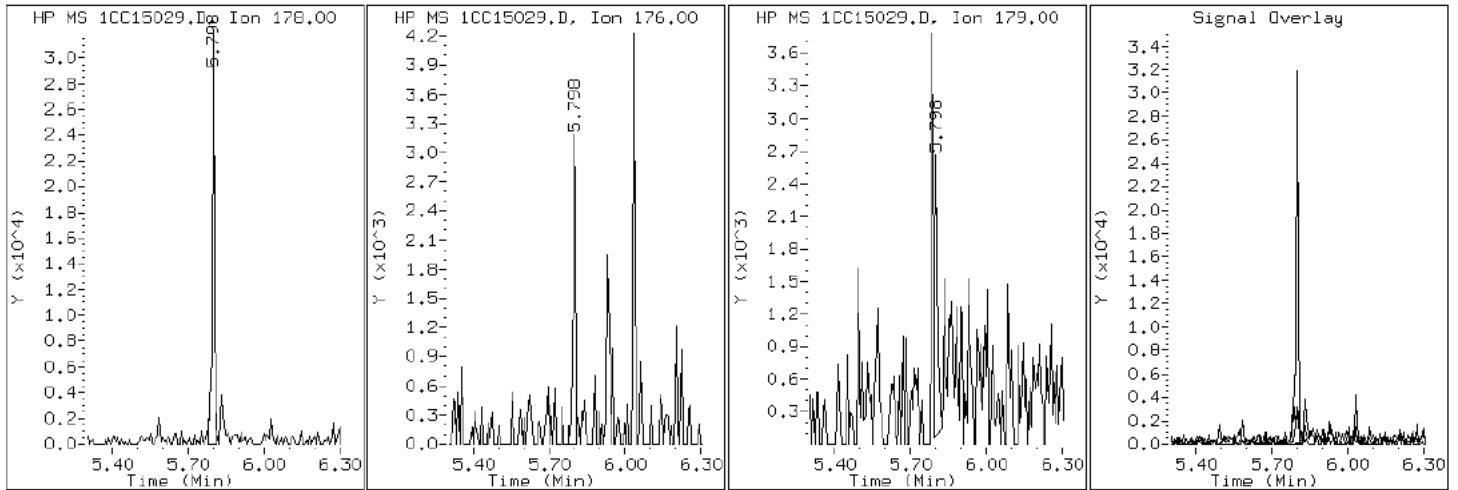
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

11 Phenanthrene



Data File: 1CC15029.D

Date: 15-MAR-2013 23:52

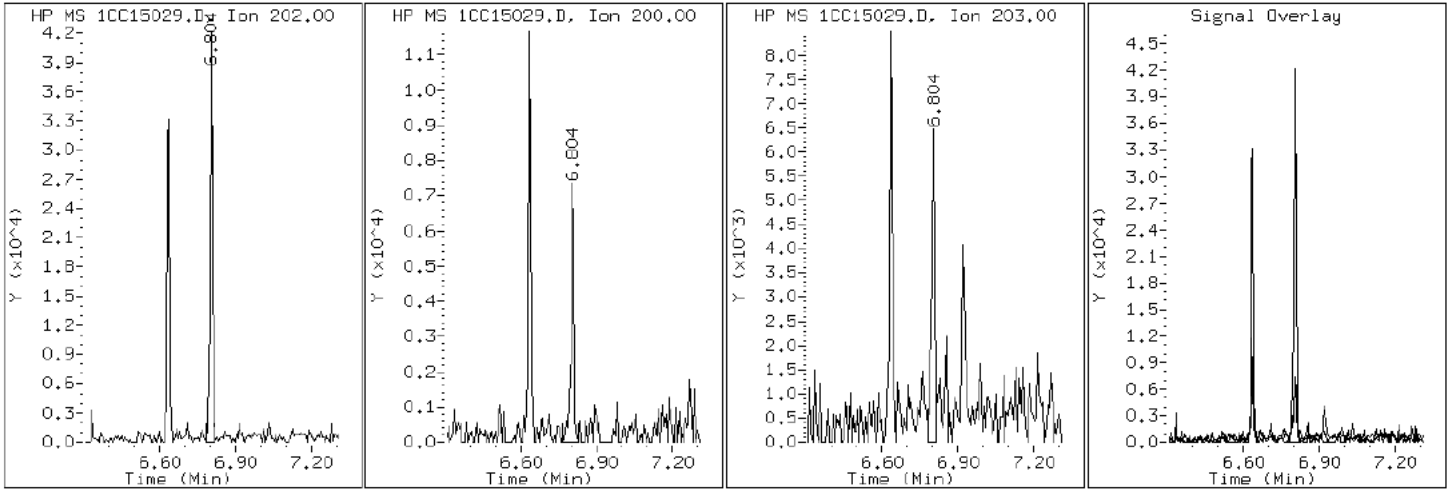
Client ID: CV0348A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-1-a

Operator: SCC

16 Pyrene

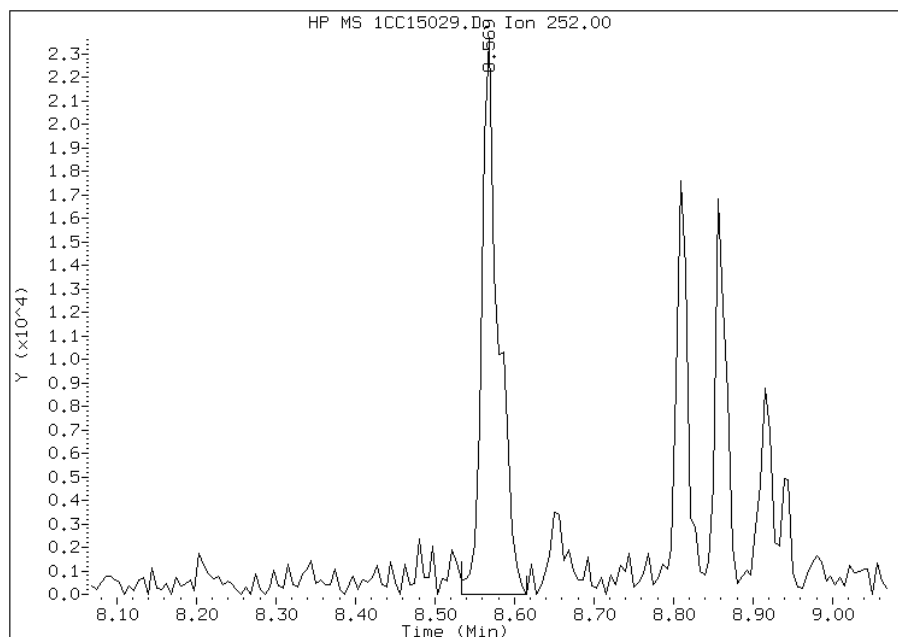


Manual Integration Report

Data File: 1CC15029.D
Inj. Date and Time: 15-MAR-2013 23:52
Instrument ID: BSMC5973.i
Client ID: CV0348A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/20/2013

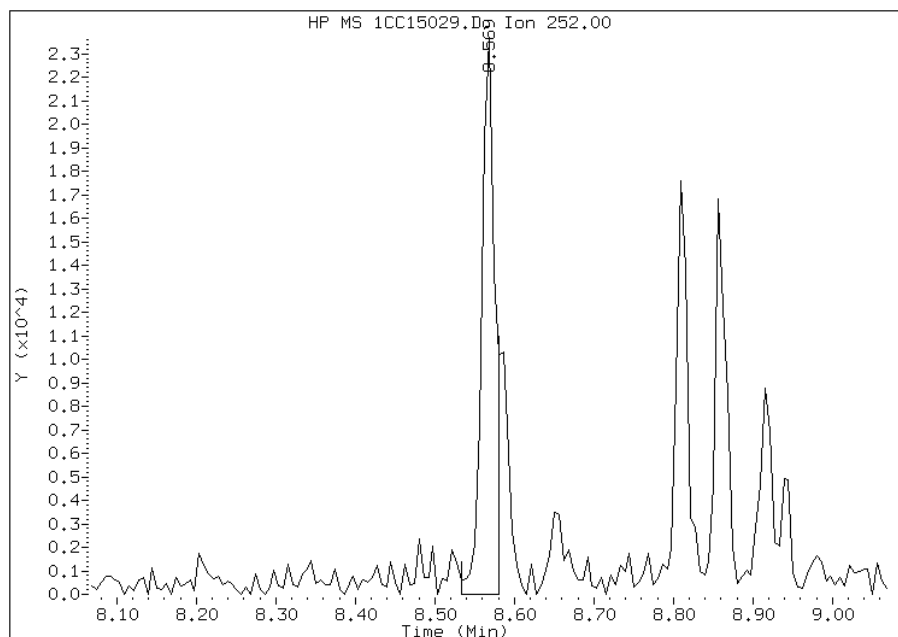
Processing Integration Results

RT: 8.57
Response: 34960
Amount: 1
Conc: 272



Manual Integration Results

RT: 8.57
Response: 27678
Amount: 1
Conc: 215



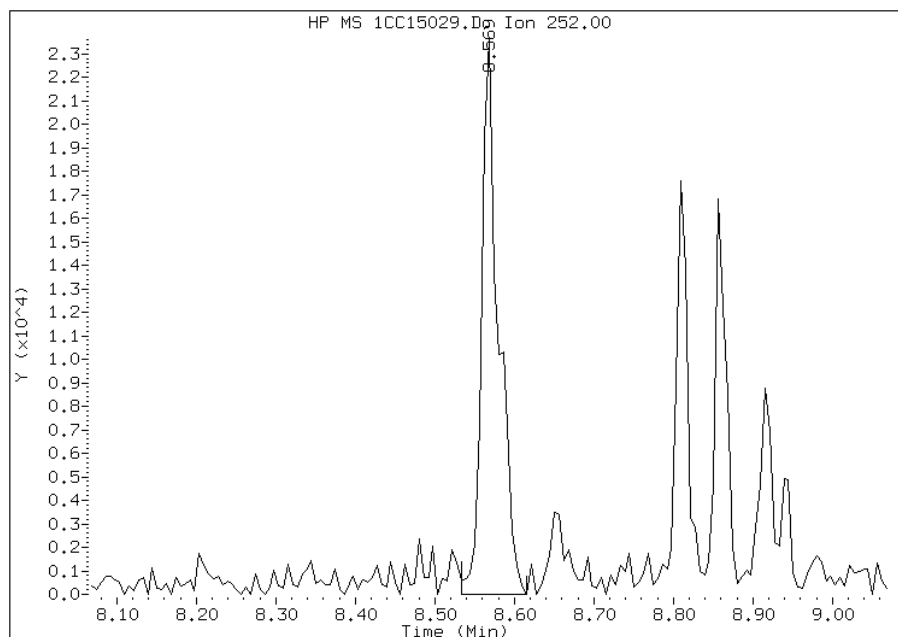
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:13
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC15029.D
Inj. Date and Time: 15-MAR-2013 23:52
Instrument ID: BSMC5973.i
Client ID: CV0348A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/20/2013

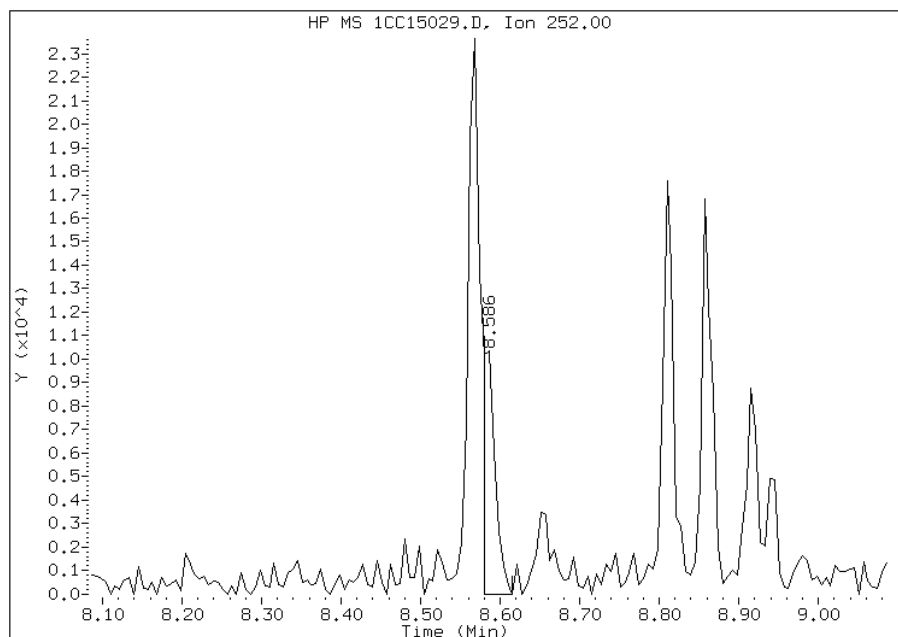
Processing Integration Results

RT: 8.57
Response: 34960
Amount: 1
Conc: 265



Manual Integration Results

RT: 8.59
Response: 10925
Amount: 0
Conc: 83



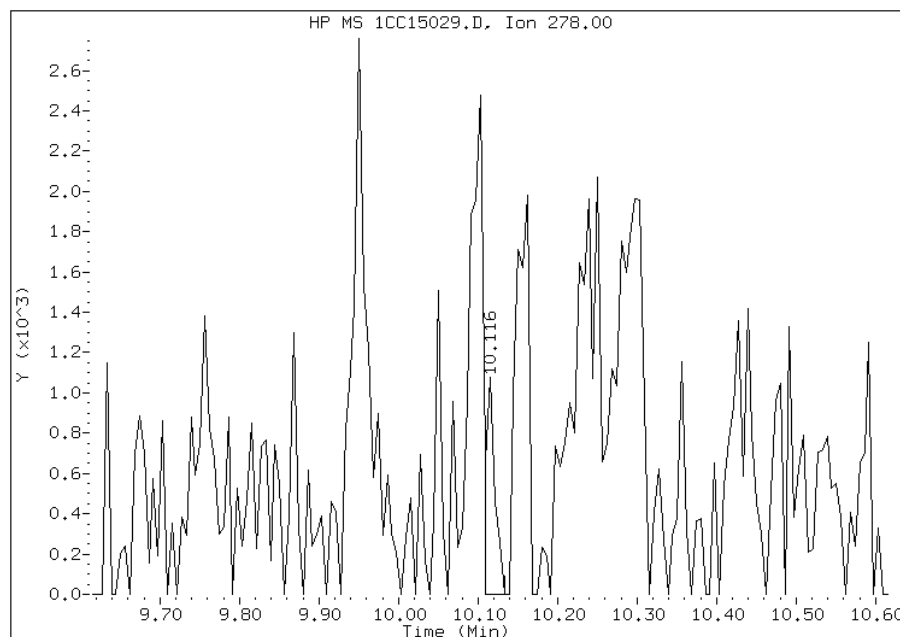
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15029.D
Inj. Date and Time: 15-MAR-2013 23:52
Instrument ID: BSMC5973.i
Client ID: CV0348A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/20/2013

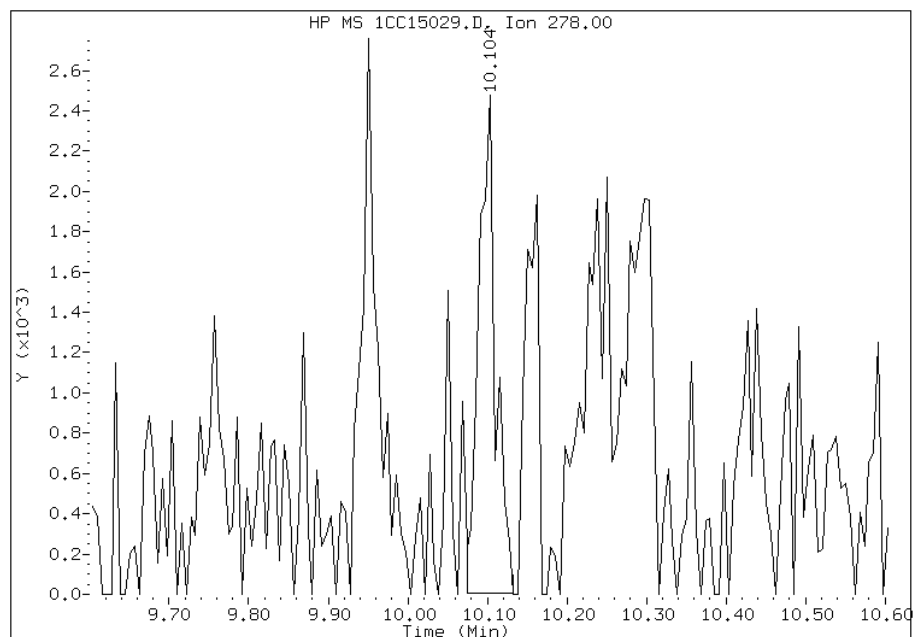
Processing Integration Results

RT: 10.12
Response: 869
Amount: 0
Conc: 8



Manual Integration Results

RT: 10.10
Response: 3607
Amount: 0
Conc: 31



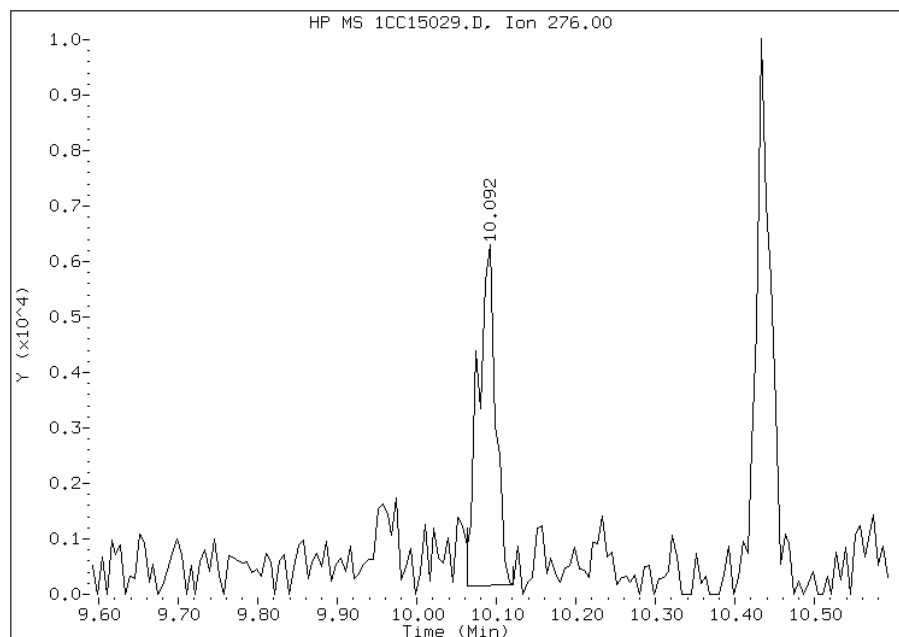
Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC15029.D
Inj. Date and Time: 15-MAR-2013 23:52
Instrument ID: BSMC5973.i
Client ID: CV0348A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

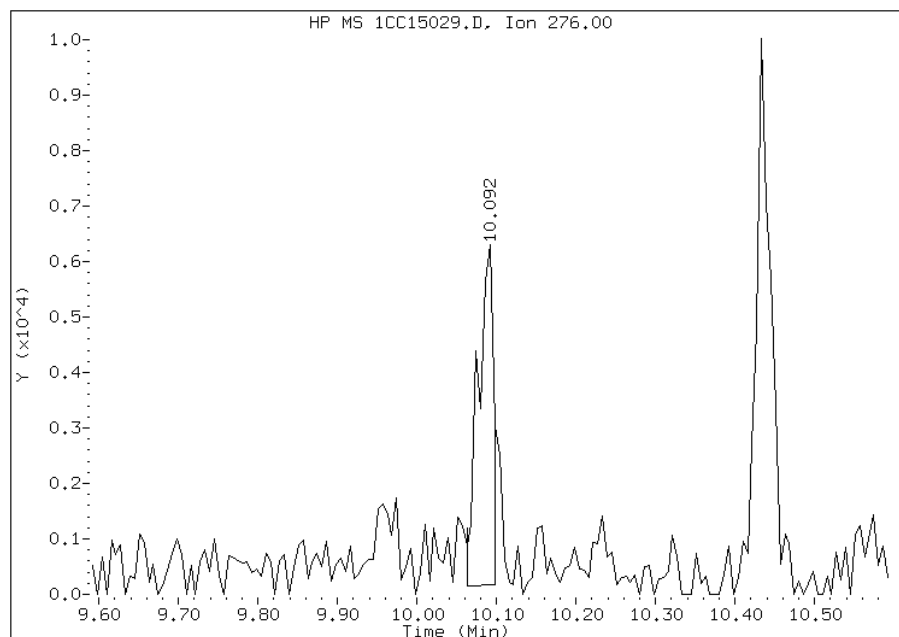
Processing Integration Results

RT: 10.09
Response: 9383
Amount: 0
Conc: 80



Manual Integration Results

RT: 10.09
Response: 8382
Amount: 0
Conc: 71



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 14:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0348A-CSD Lab Sample ID: 680-88176-2
 Matrix: Solid Lab File ID: 1CC20007.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 08:50
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.14 (g) Date Analyzed: 03/20/2013 11:51
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 35.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	31
208-96-8	Acenaphthylene	11	J	61	7.7
120-12-7	Anthracene	17		13	6.4
56-55-3	Benzo[a]anthracene	88		12	6.0
50-32-8	Benzo[a]pyrene	97		16	8.0
205-99-2	Benzo[b]fluoranthene	190		19	9.4
191-24-2	Benzo[g,h,i]perylene	93		31	6.7
207-08-9	Benzo[k]fluoranthene	40		12	5.5
218-01-9	Chrysene	120		14	6.9
53-70-3	Dibenz(a,h)anthracene	19	J	31	6.3
206-44-0	Fluoranthene	170		31	6.1
86-73-7	Fluorene	12	J	31	6.3
193-39-5	Indeno[1,2,3-cd]pyrene	60		31	11
90-12-0	1-Methylnaphthalene	45	J	61	6.7
91-57-6	2-Methylnaphthalene	57	J	61	11
91-20-3	Naphthalene	69		61	6.7
85-01-8	Phenanthrene	100		12	6.0
129-00-0	Pyrene	150		31	5.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	46		30-130

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20007.D
 Lab Smp Id: 680-88176-A-2-A Client Smp ID: CV0348A-CSD
 Inj Date : 20-MAR-2013 11:51
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-2-a
 Misc Info : 680-88176-A-2-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 7
 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	15.140	Weight Extracted
M	35.371	% 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		3.739	3.745	(1.000)	939032	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	706328	40.0000		
* 10 Phenanthrene-d10	188		5.774	5.780	(1.000)	1375451	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	94888	4.56918	466.9669	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1614463	40.0000		
* 23 Perylene-d12	264		8.909	8.909	(1.000)	1570837	40.0000		
2 Naphthalene	128		3.757	3.757	(1.005)	16507	0.67523	69.0078(Q)	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	9140	0.56050	57.2825	
4 1-Methylnaphthalene	142		4.245	4.245	(1.135)	6527	0.43948	44.9143	
5 Acenaphthylene	152		4.739	4.745	(0.982)	3138	0.11019	11.2617	
9 Fluorene	166		5.168	5.169	(1.071)	2589	0.11566	11.8202(Q)	
11 Phenanthrene	178		5.792	5.792	(1.003)	39586	0.99532	101.7214	
12 Anthracene	178		5.827	5.827	(1.009)	6514	0.16747	17.1152	
13 Carbazole	167		5.933	5.933	(1.027)	7598	0.21974	22.4577(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.627	6.633	(1.148)	71758	1.64752	168.3755
16 Pyrene	202	6.798	6.798	(0.880)	65143	1.50146	153.4483
17 Benzo(a)anthracene	228	7.709	7.715	(0.998)	40175	0.86219	88.1150
19 Chrysene	228	7.739	7.739	(1.002)	56374	1.20892	123.5512
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	75612	1.84187	188.2375(M)
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.963)	16330	0.38777	39.6296(QM)
22 Benzo(a)pyrene	252	8.851	8.857	(0.993)	37752	0.94676	96.7586
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.080	(1.131)	21844	0.58234	59.5145(M)
25 Dibenzo(a,h)anthracene	278	10.080	10.098	(1.131)	6766	0.18441	18.8461
26 Benzo(g,h,i)perylene	276	10.421	10.433	(1.170)	35578	0.90669	92.6629

QC Flag Legend

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

Data File: 1CC20007.D

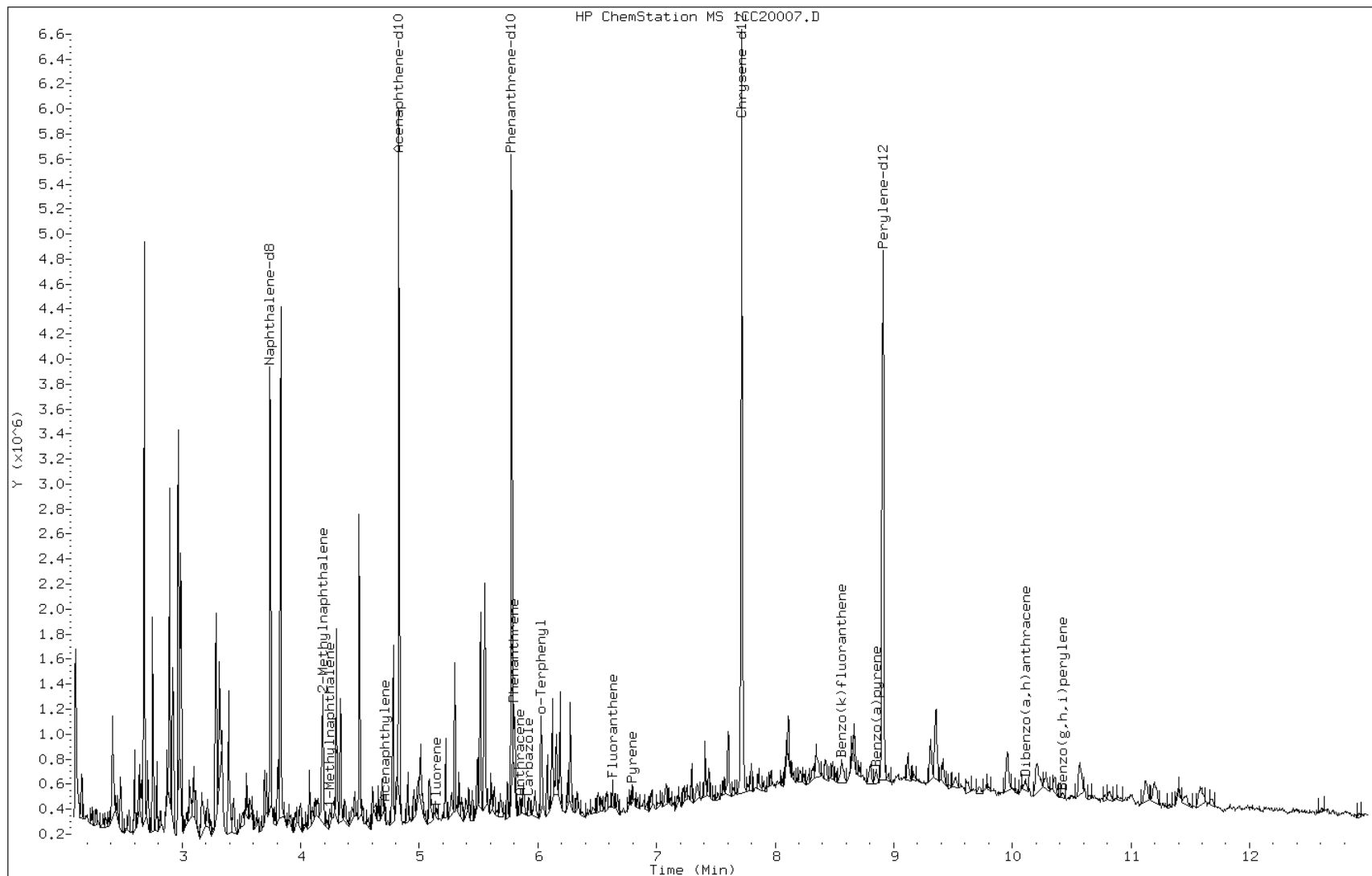
Date: 20-MAR-2013 11:51

Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

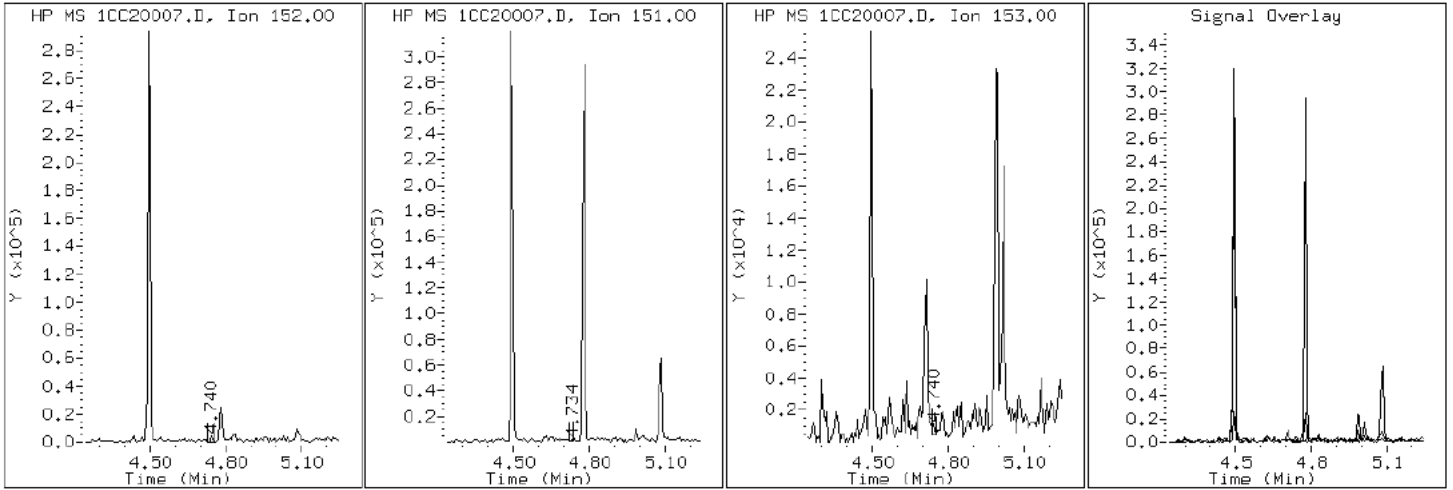
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

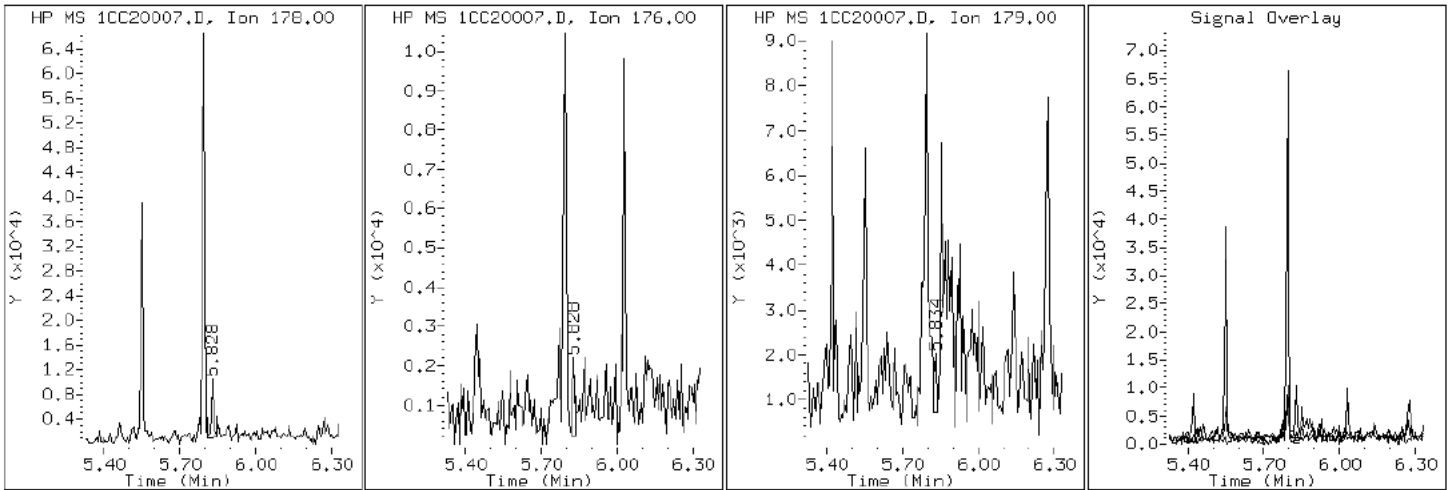
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

12 Anthracene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

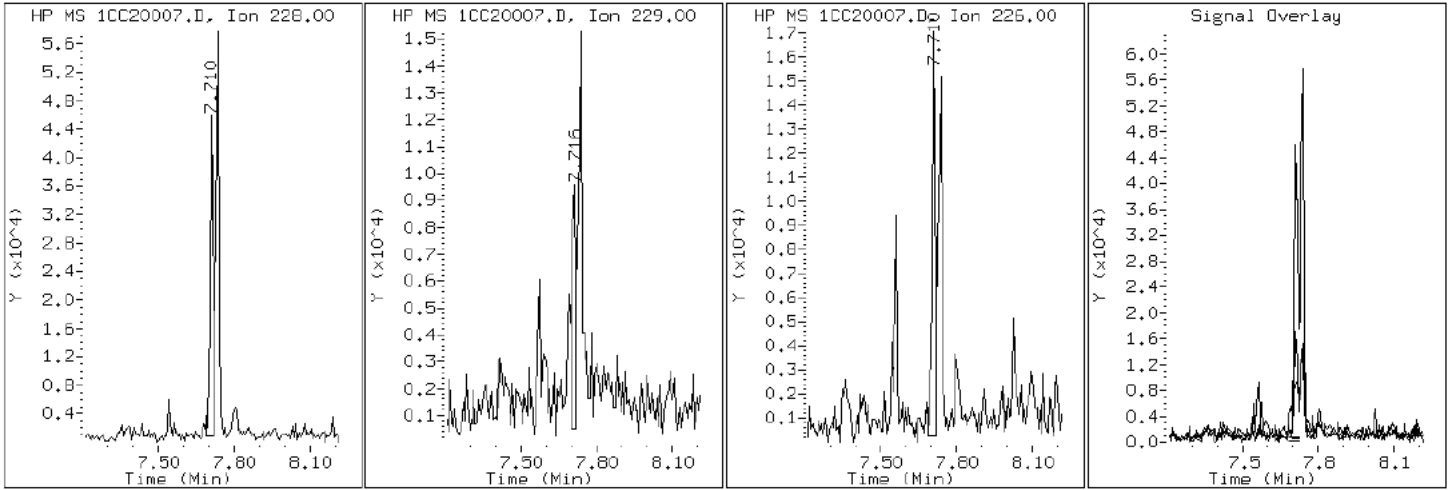
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

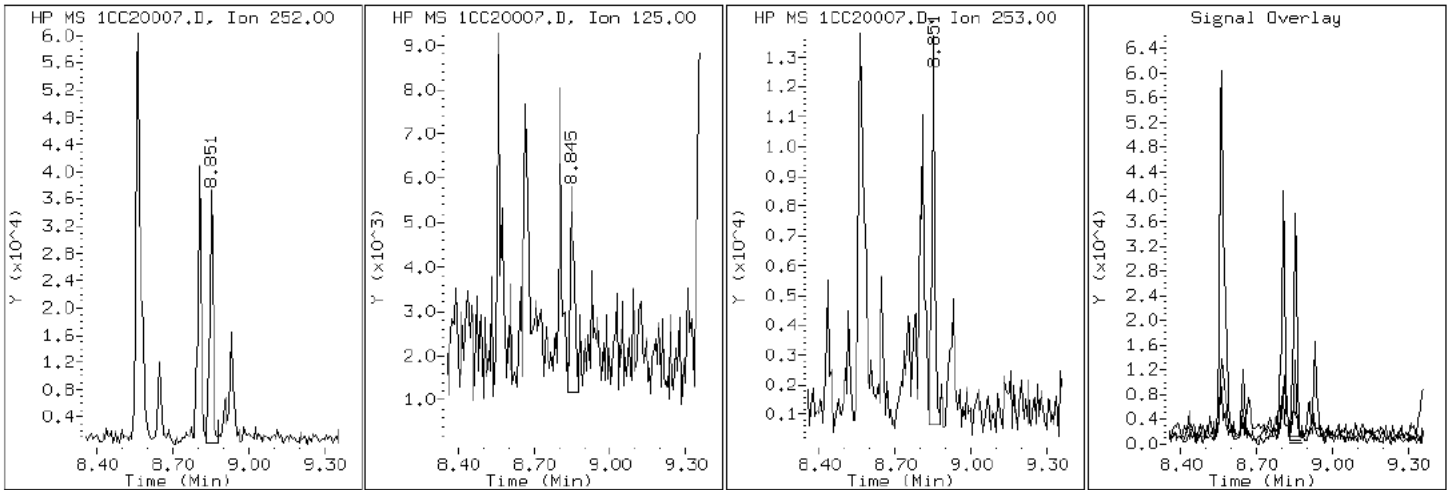
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

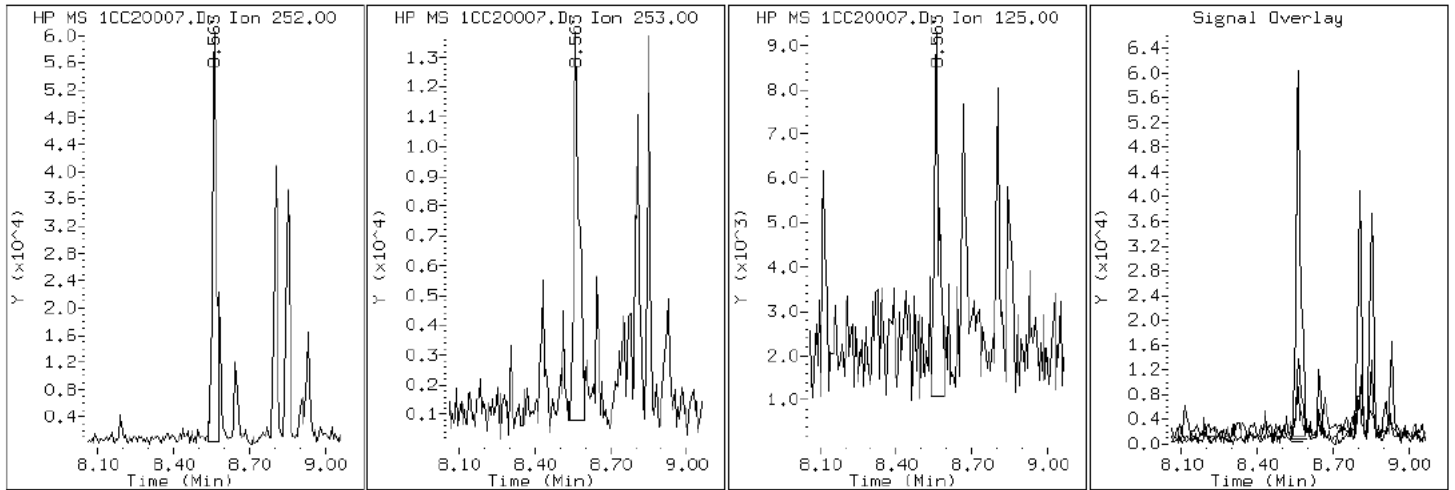
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

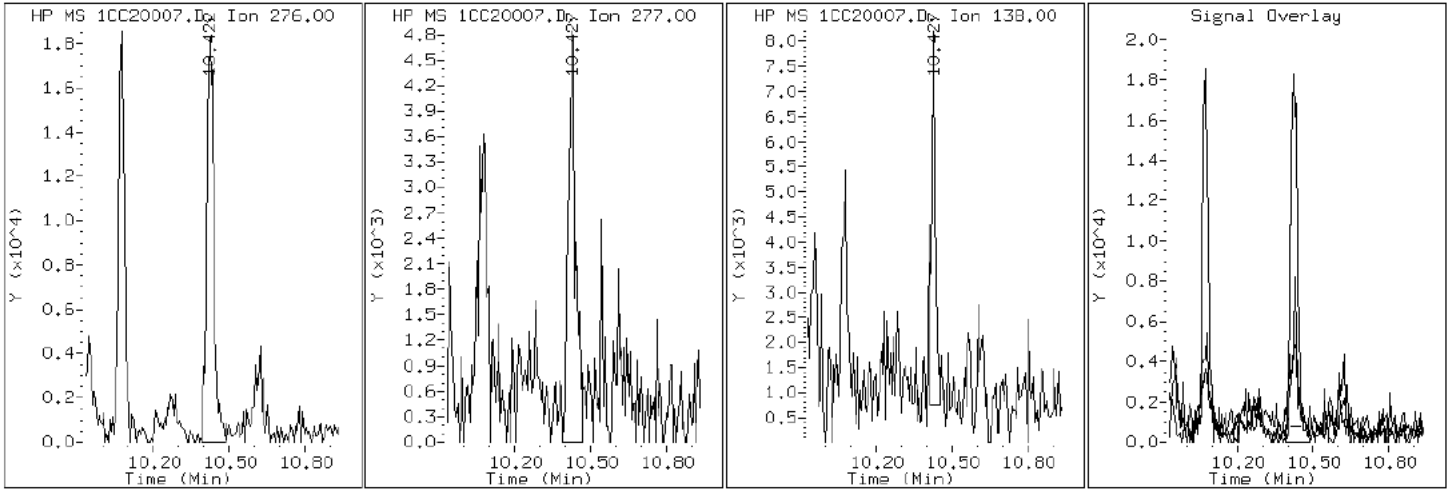
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

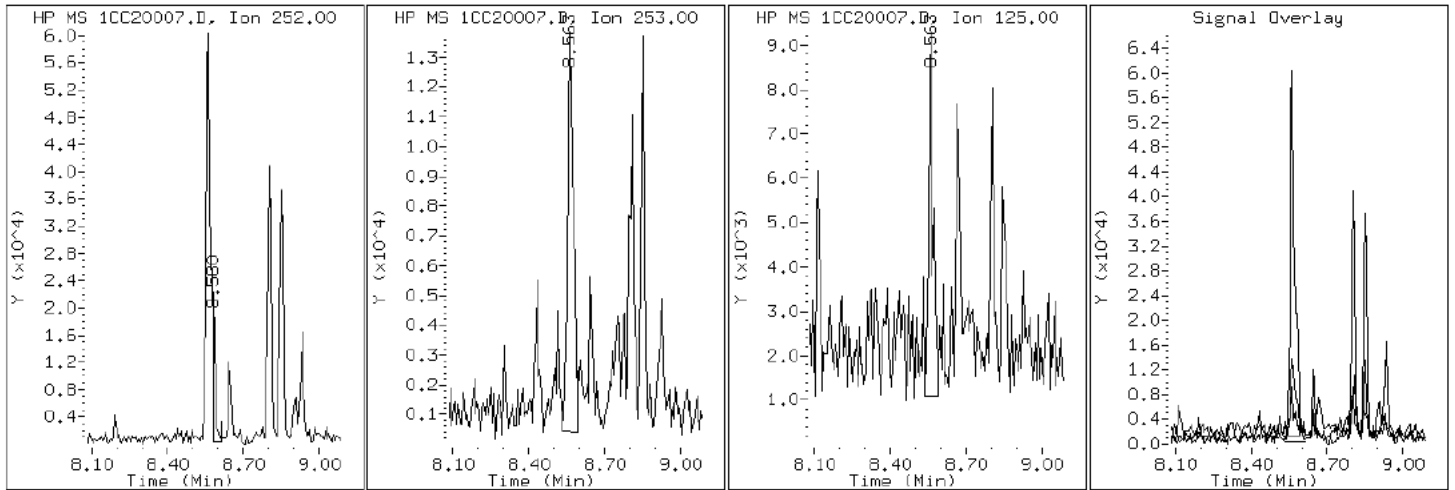
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

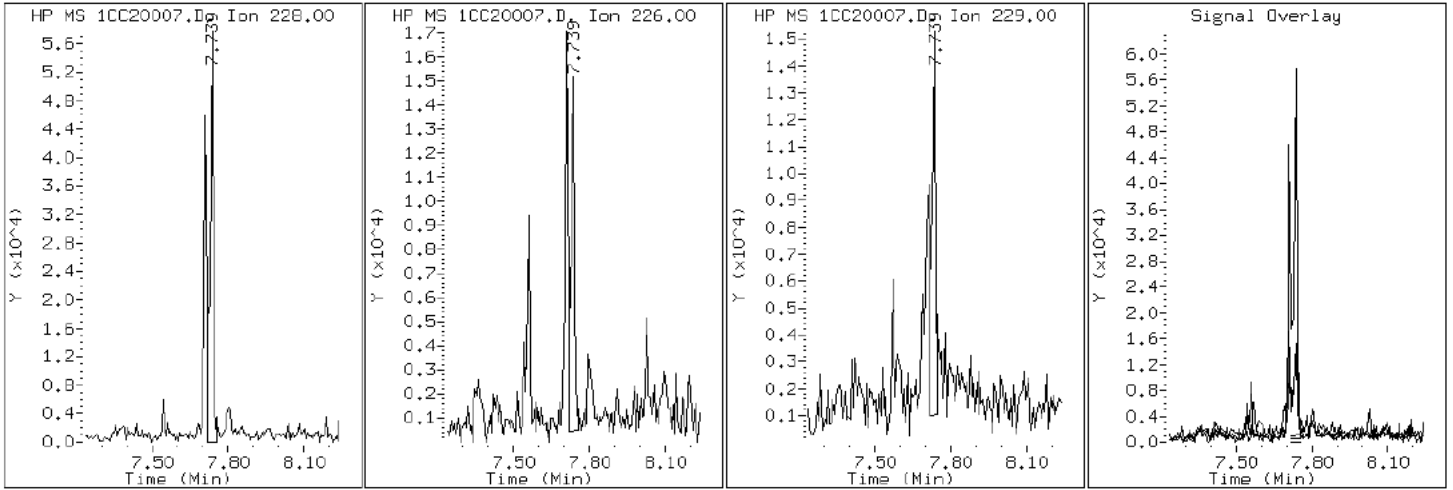
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

19 Chrysene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

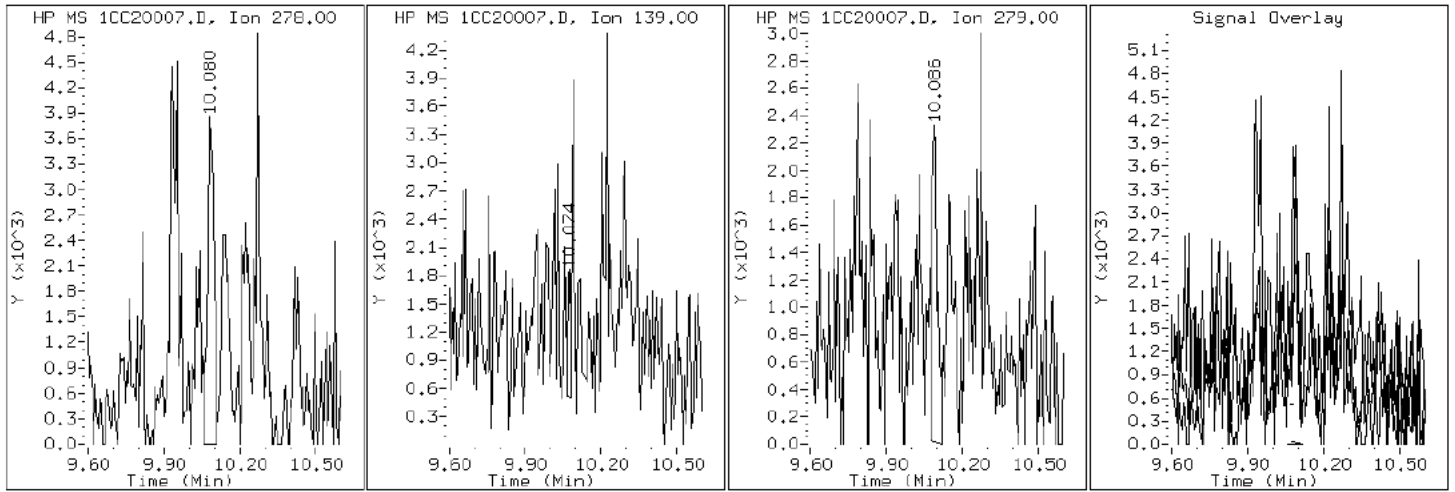
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

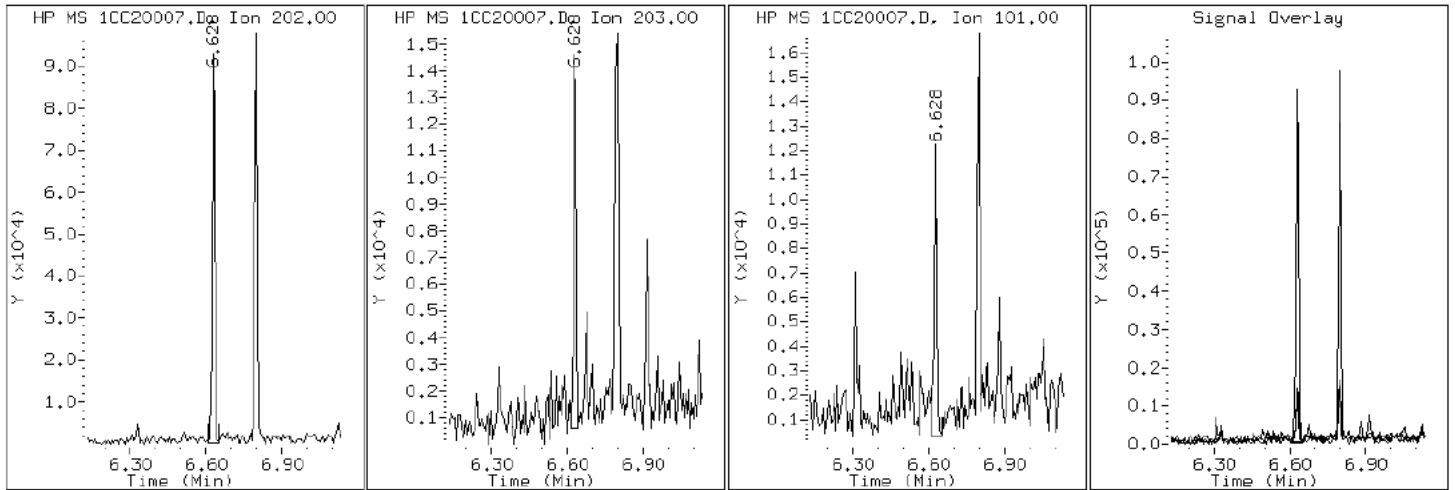
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

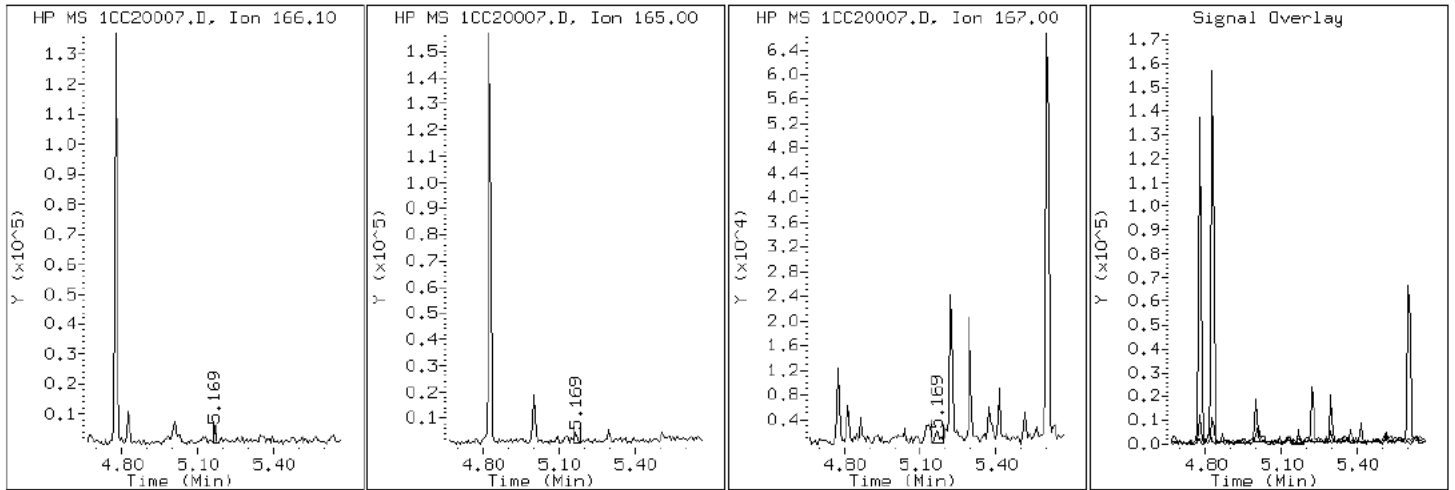
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

9 Fluorene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

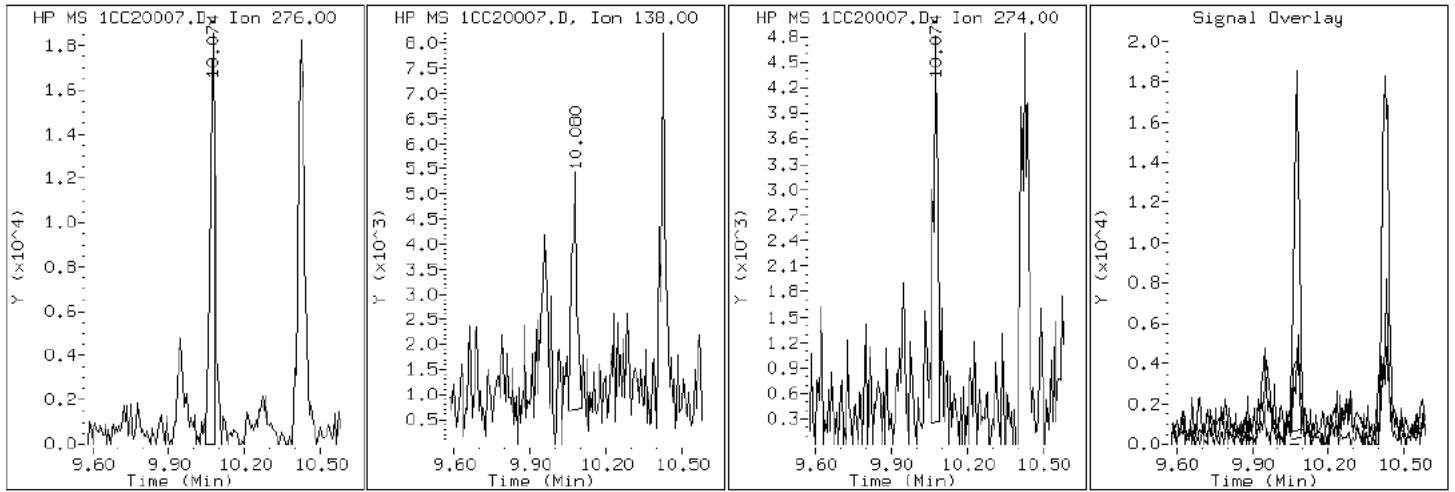
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

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



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

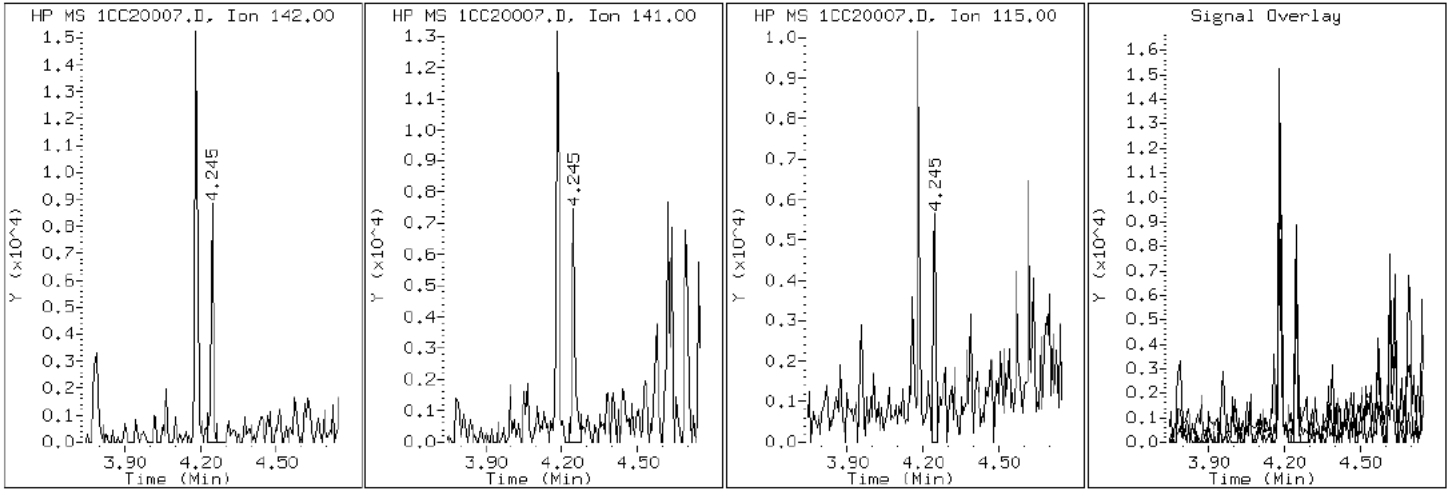
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

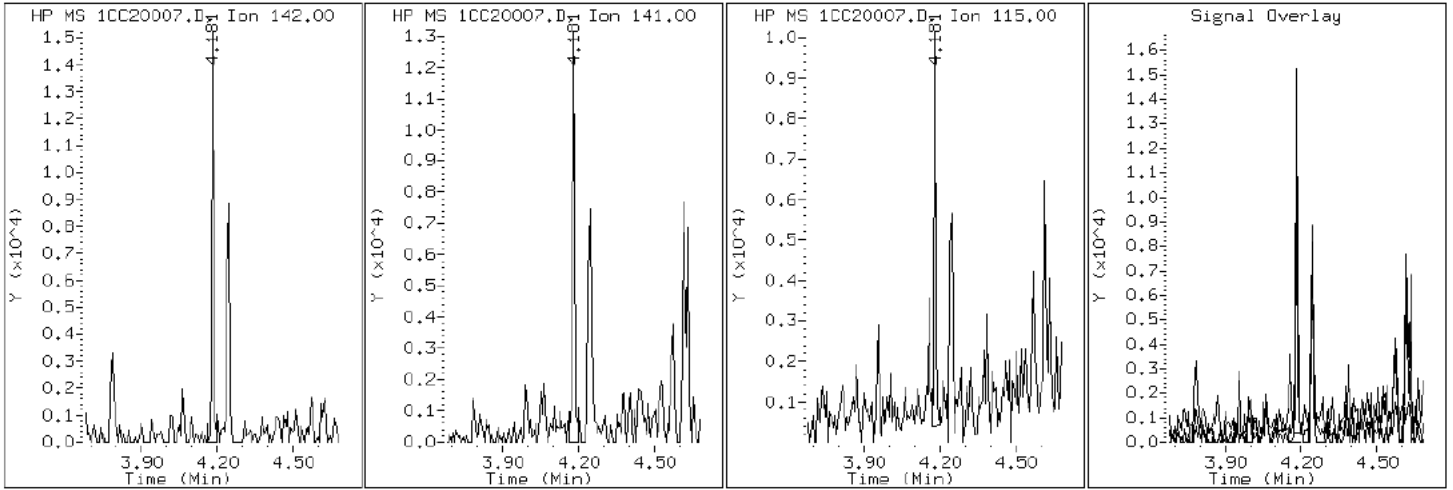
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

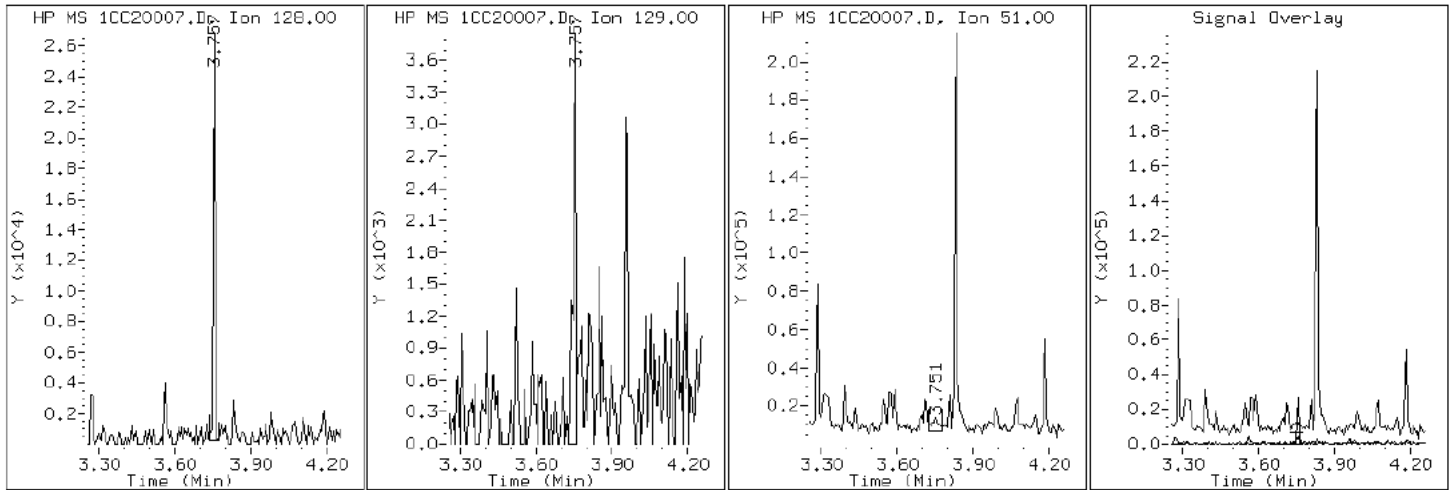
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

2 Naphthalene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

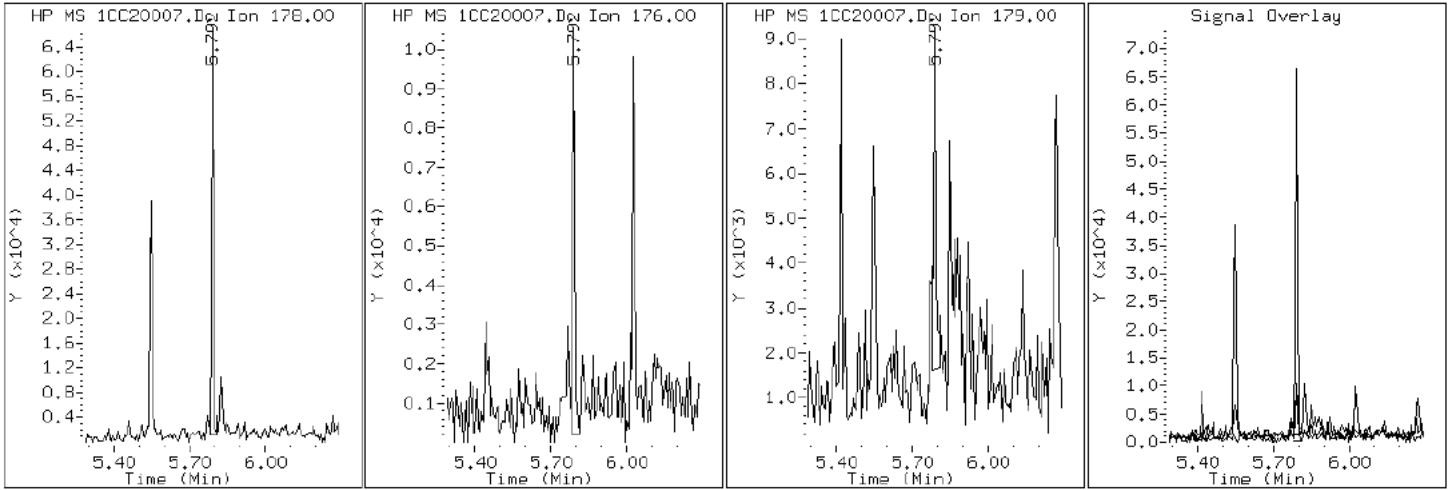
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20007.D

Date: 20-MAR-2013 11:51

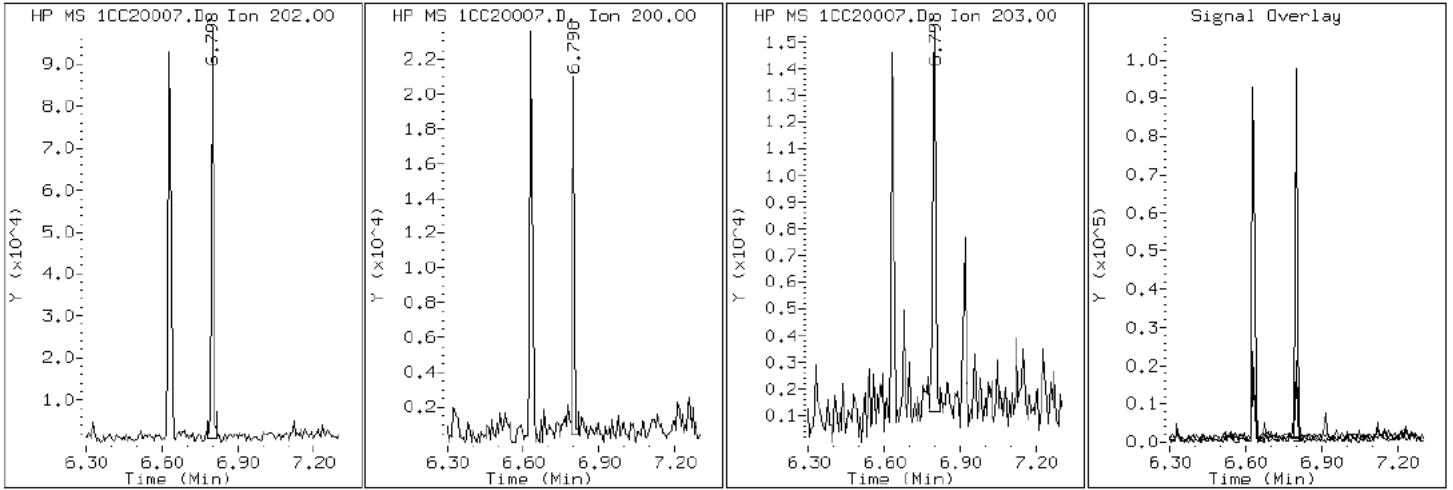
Client ID: CV0348A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-2-a

Operator: SCC

16 Pyrene

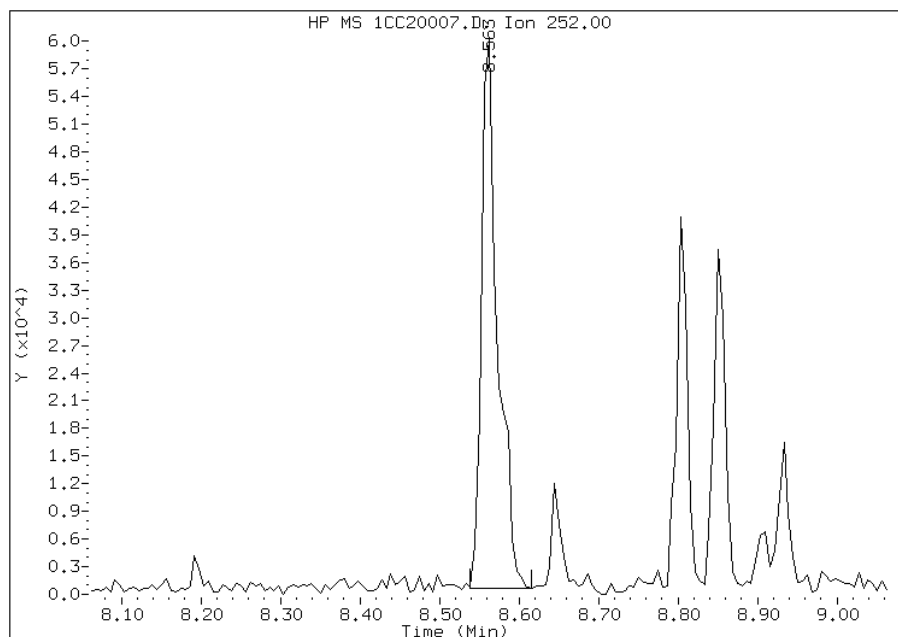


Manual Integration Report

Data File: 1CC20007.D
Inj. Date and Time: 20-MAR-2013 11:51
Instrument ID: BSMC5973.i
Client ID: CV0348A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

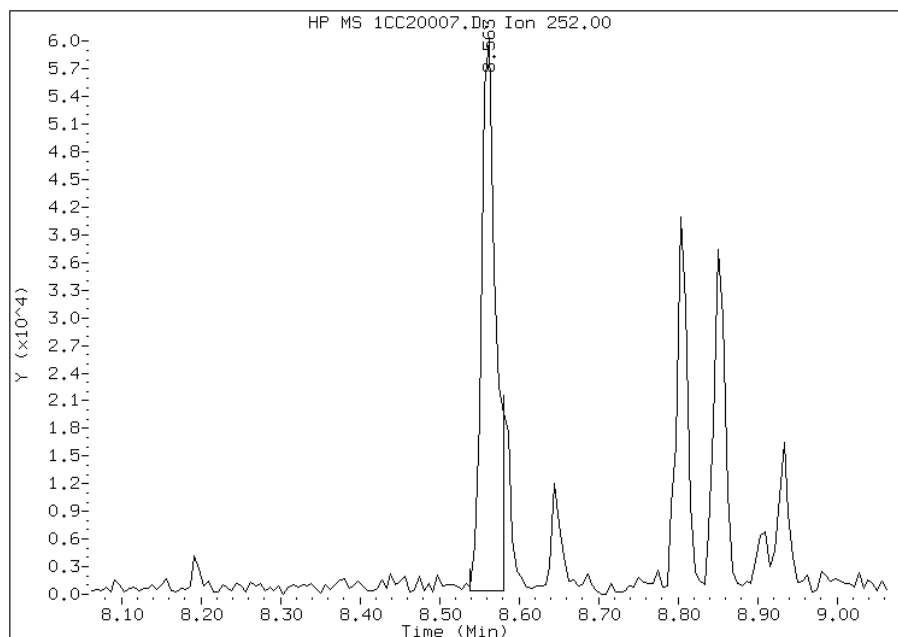
Processing Integration Results

RT: 8.56
Response: 83932
Amount: 2
Conc: 209



Manual Integration Results

RT: 8.56
Response: 75612
Amount: 2
Conc: 188



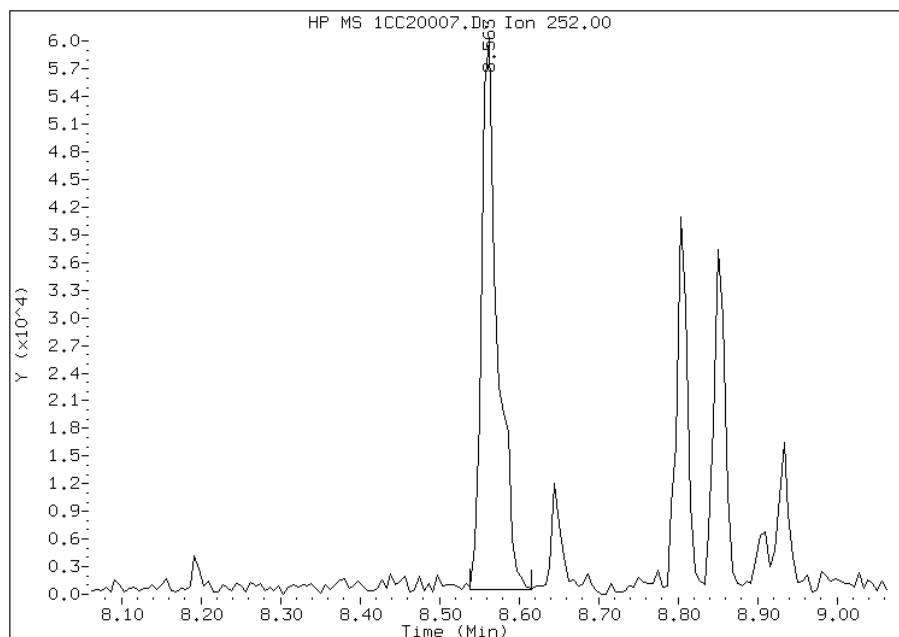
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20007.D
Inj. Date and Time: 20-MAR-2013 11:51
Instrument ID: BSMC5973.i
Client ID: CV0348A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

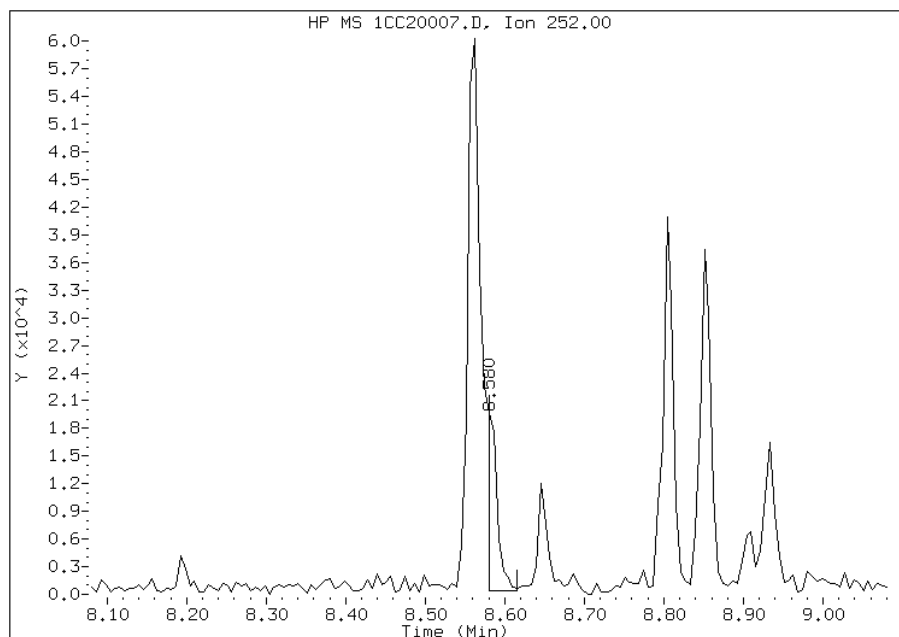
Processing Integration Results

RT: 8.56
Response: 84740
Amount: 2
Conc: 206



Manual Integration Results

RT: 8.58
Response: 16330
Amount: 0
Conc: 40



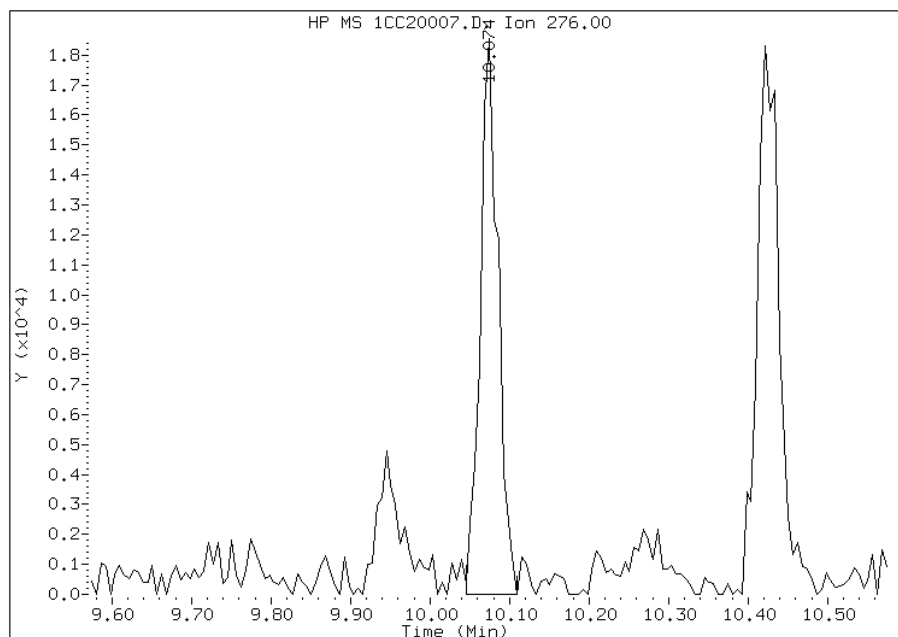
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20007.D
Inj. Date and Time: 20-MAR-2013 11:51
Instrument ID: BSMC5973.i
Client ID: CV0348A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

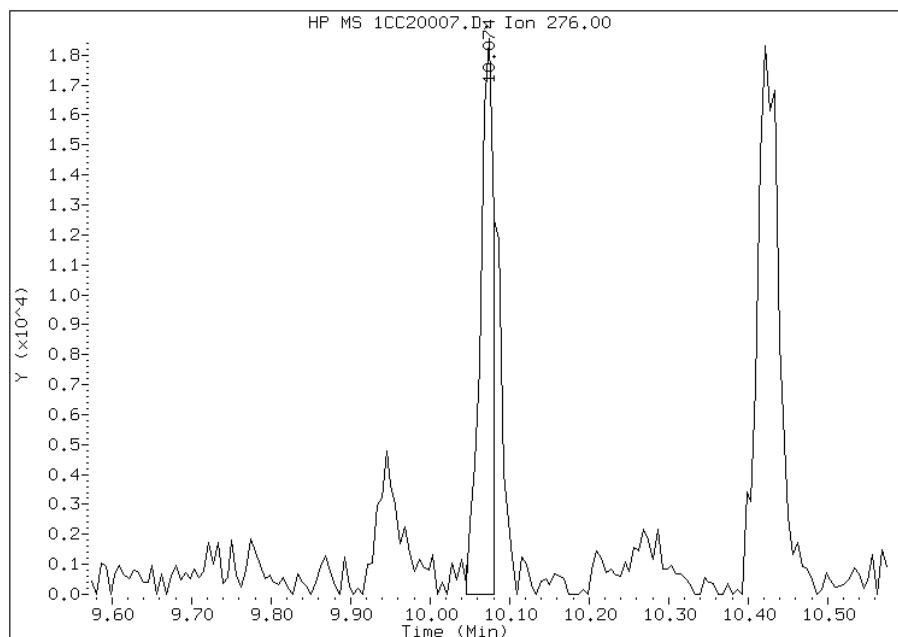
Processing Integration Results

RT: 10.07
Response: 28747
Amount: 1
Conc: 78



Manual Integration Results

RT: 10.07
Response: 21844
Amount: 1
Conc: 60



Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0348B-CS Lab Sample ID: 680-88176-3
 Matrix: Solid Lab File ID: 1CC20008.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 09:00
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.03(g) Date Analyzed: 03/20/2013 12:09
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 25.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	27
208-96-8	Acenaphthylene	9.0	J	54	6.7
120-12-7	Anthracene	24		11	5.6
56-55-3	Benzo[a]anthracene	130		11	5.2
50-32-8	Benzo[a]pyrene	110		14	7.0
205-99-2	Benzo[b]fluoranthene	200		16	8.2
191-24-2	Benzo[g,h,i]perylene	67		27	5.9
207-08-9	Benzo[k]fluoranthene	55		11	4.8
218-01-9	Chrysene	160		12	6.0
53-70-3	Dibenz(a,h)anthracene	29		27	5.5
206-44-0	Fluoranthene	230		27	5.4
86-73-7	Fluorene	19	J	27	5.5
193-39-5	Indeno[1,2,3-cd]pyrene	81		27	9.5
90-12-0	1-Methylnaphthalene	29	J	54	5.9
91-57-6	2-Methylnaphthalene	52	J	54	9.5
91-20-3	Naphthalene	71		54	5.9
85-01-8	Phenanthrene	180		11	5.2
129-00-0	Pyrene	190		27	5.0

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\1C032013.b\1CC20008.D
 Lab Smp Id: 680-88176-A-3-A Client Smp ID: CV0348B-CS
 Inj Date : 20-MAR-2013 12:09
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-3-a
 Misc Info : 680-88176-A-3-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 8
 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	15.030	Weight Extracted
M	25.636	% 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		3.745	3.745	(1.000)	934783	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	720653	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1303541	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	137732	6.99813	626.1243	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1508789	40.0000		
* 23 Perylene-d12	264		8.904	8.909	(1.000)	1440446	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	19439	0.79878	71.4667(Q)	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	9494	0.58485	52.3269	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	4711	0.31864	28.5091(Q)	
5 Acenaphthylene	152		4.739	4.745	(0.982)	2914	0.10029	8.9733	
9 Fluorene	166		5.169	5.169	(1.071)	4855	0.21258	19.0192	
11 Phenanthrene	178		5.792	5.792	(1.002)	77029	2.04361	182.8419	
12 Anthracene	178		5.827	5.827	(1.008)	9706	0.26330	23.5573	
13 Carbazole	167		5.933	5.933	(1.026)	9781	0.29849	26.7055	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.627	6.633	(1.147)	107982	2.61597	234.0512
16 Pyrene	202	6.798	6.798	(0.880)	88162	2.17434	194.5387
17 Benzo(a)anthracene	228	7.710	7.715	(0.998)	62409	1.43316	128.2246
19 Chrysene	228	7.739	7.739	(1.002)	78681	1.80547	161.5355
20 Benzo(b)fluoranthene	252	8.557	8.562	(0.961)	84789	2.25238	201.5207(M)
21 Benzo(k)fluoranthene	252	8.574	8.586	(0.963)	23719	0.61421	54.9534(QMH)
22 Benzo(a)pyrene	252	8.845	8.857	(0.993)	43913	1.20096	107.4502
24 Indeno(1,2,3-cd)pyrene	276	10.068	10.080	(1.131)	31216	0.90752	81.1956(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.098	(1.133)	10930	0.32486	29.0652
26 Benzo(g,h,i)perylene	276	10.421	10.433	(1.170)	27087	0.75279	67.3518

QC Flag Legend

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

Data File: 1CC20008.D

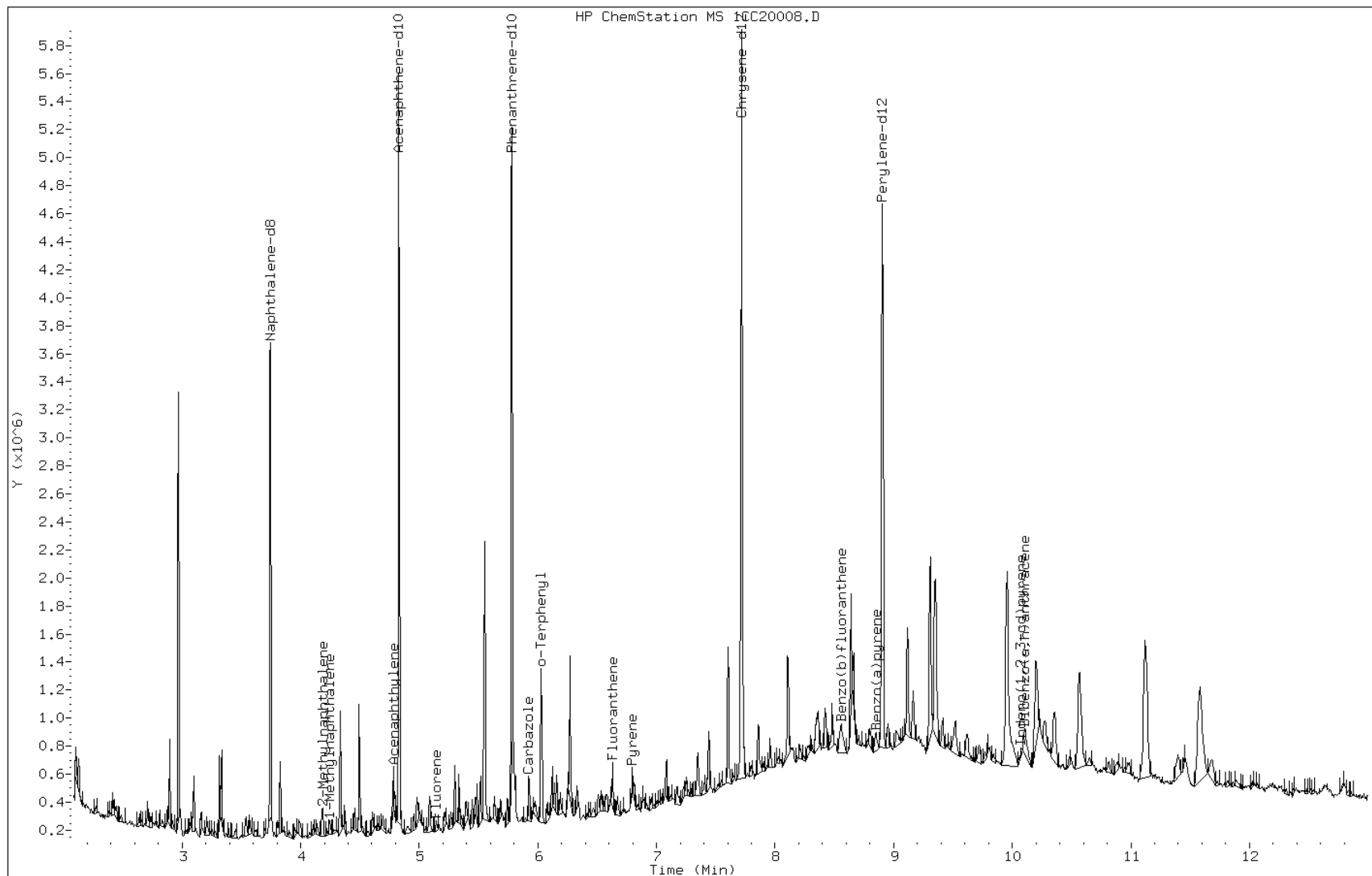
Date: 20-MAR-2013 12:09

Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

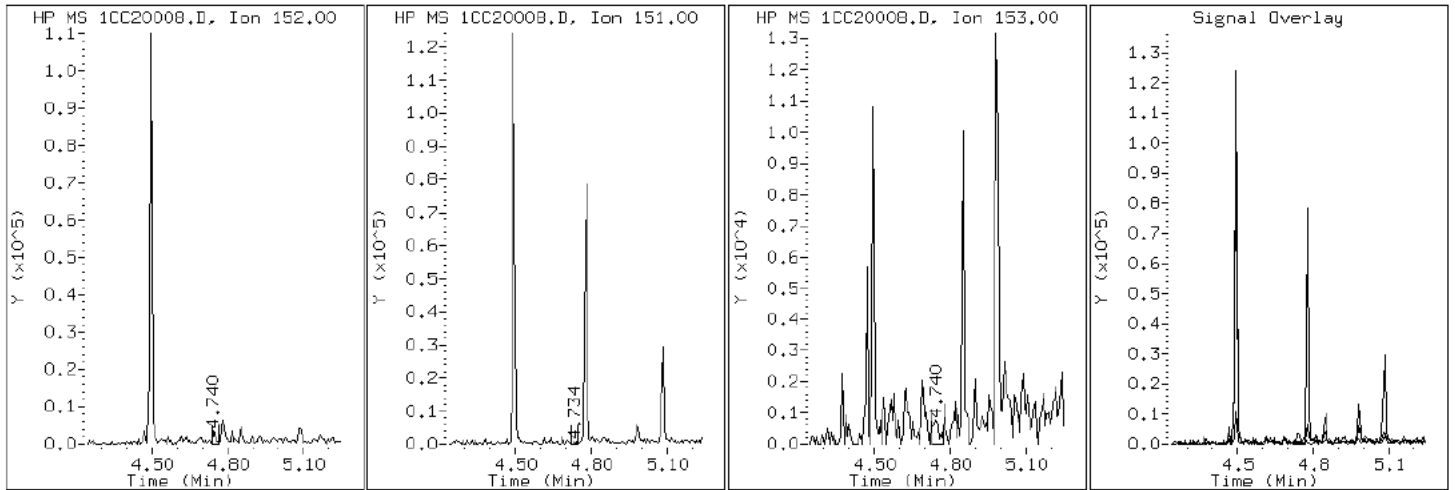
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

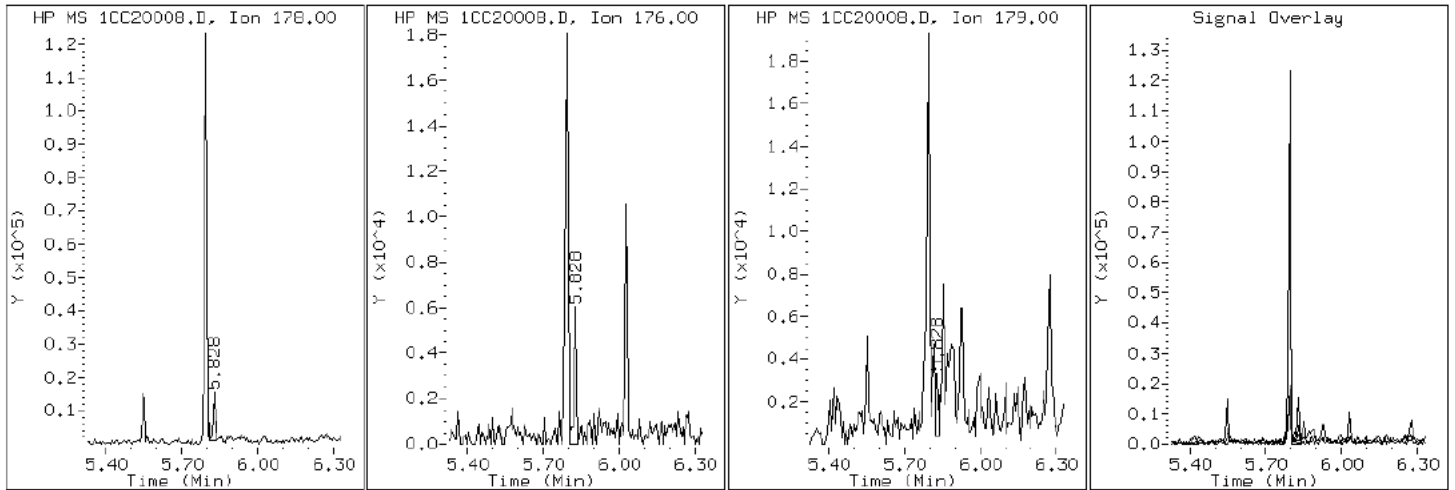
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

12 Anthracene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

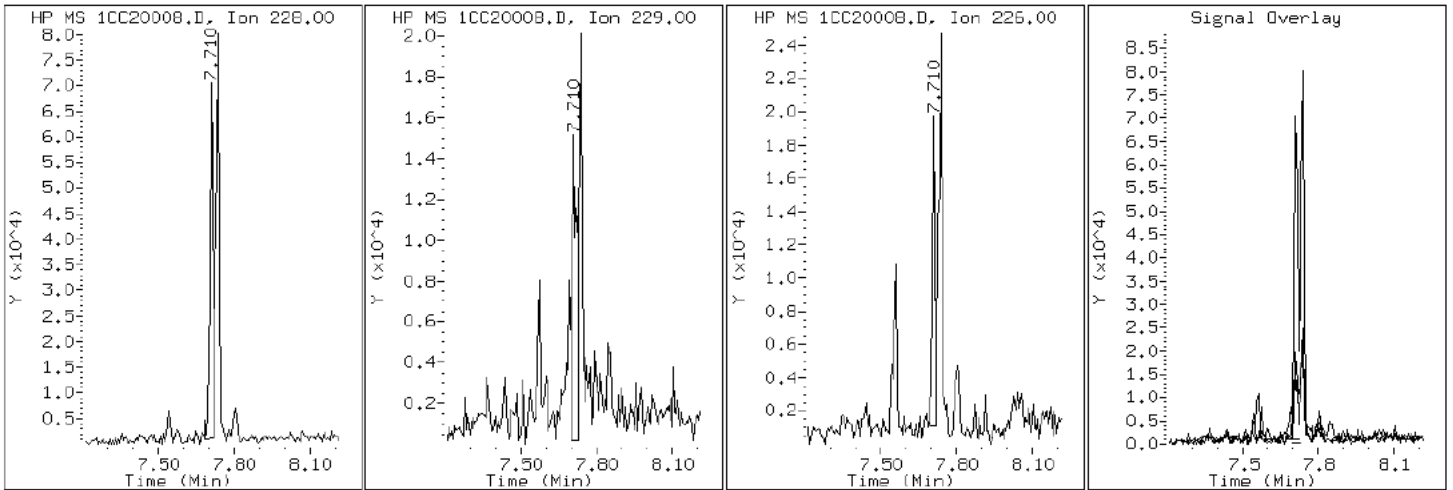
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

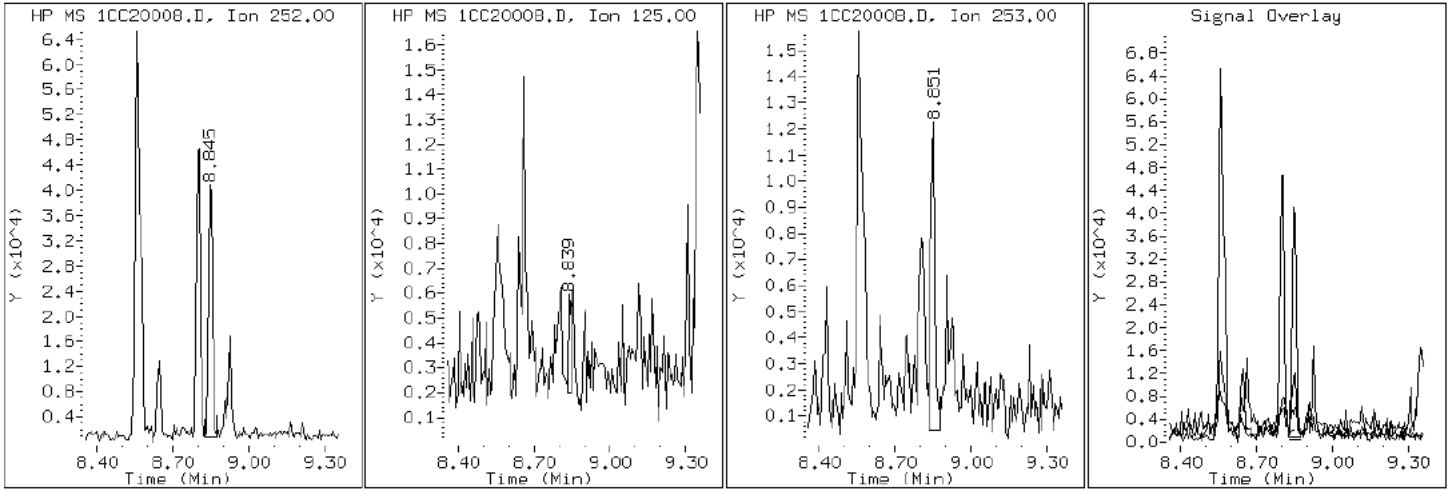
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

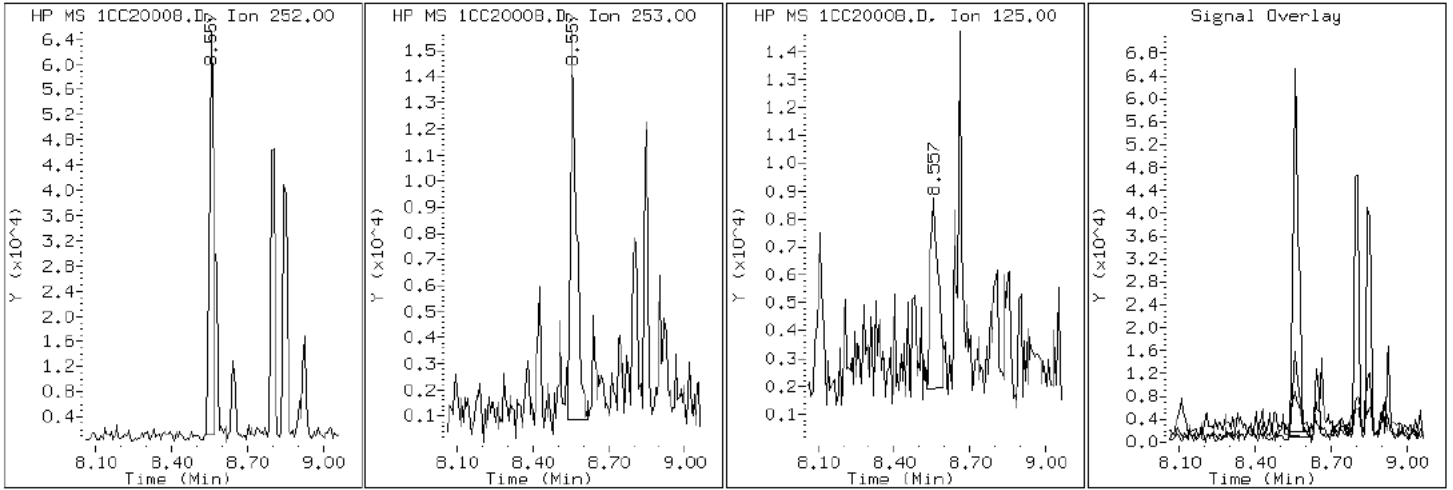
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

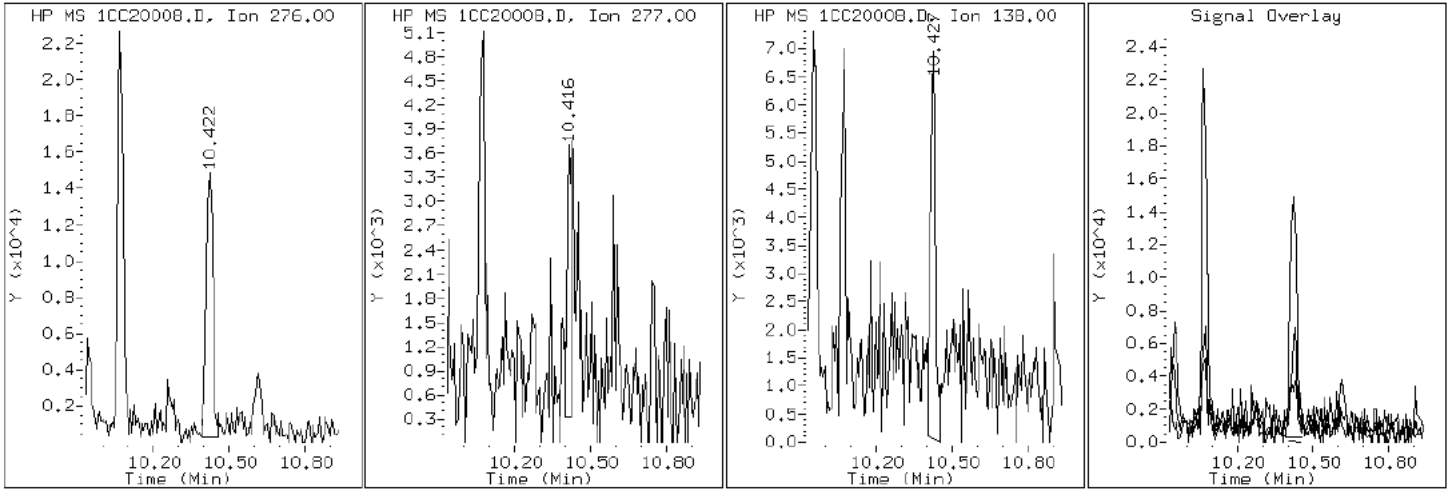
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

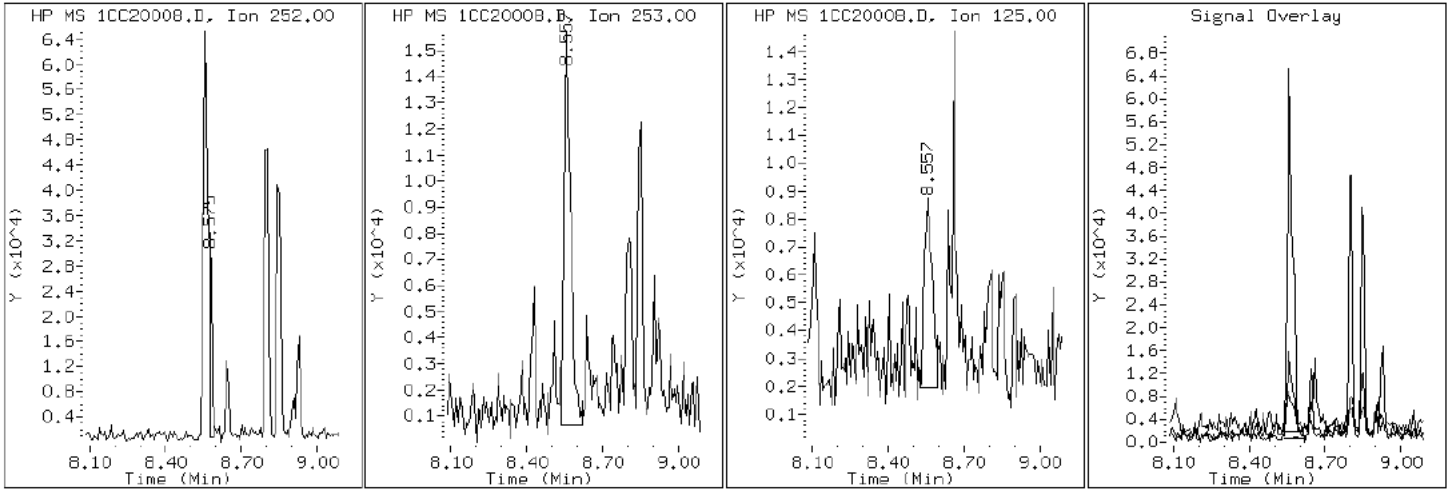
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

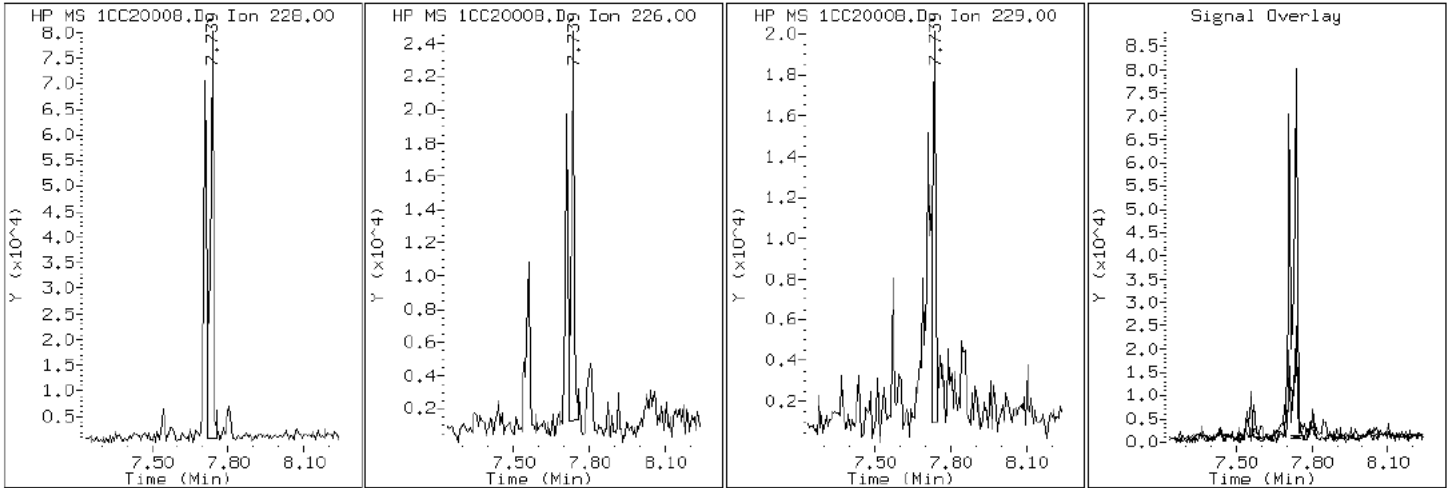
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

19 Chrysene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

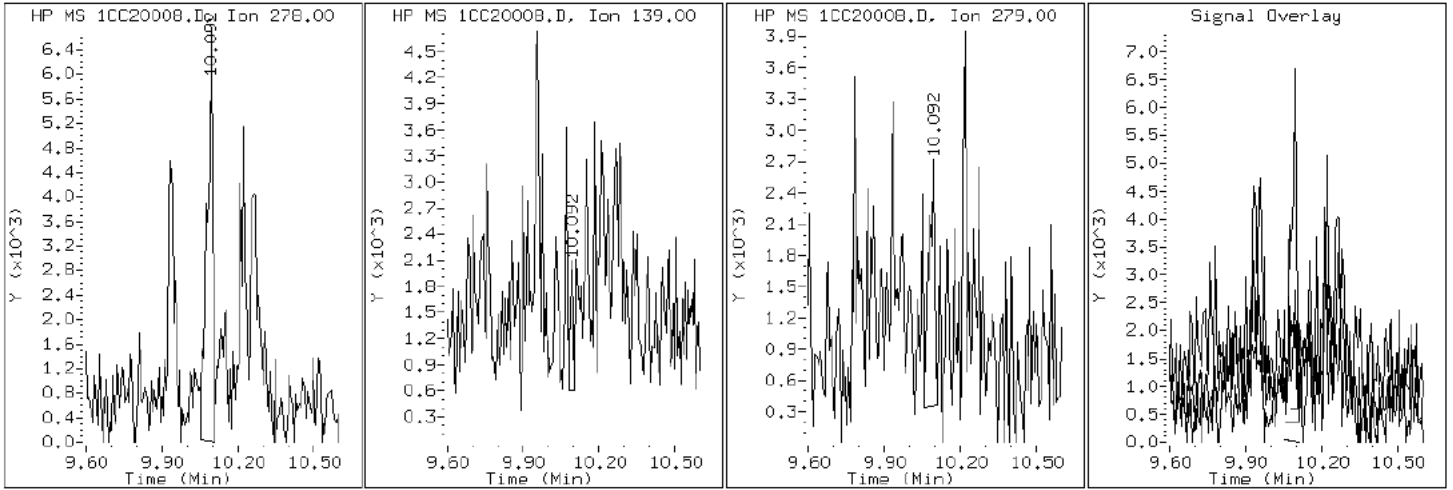
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

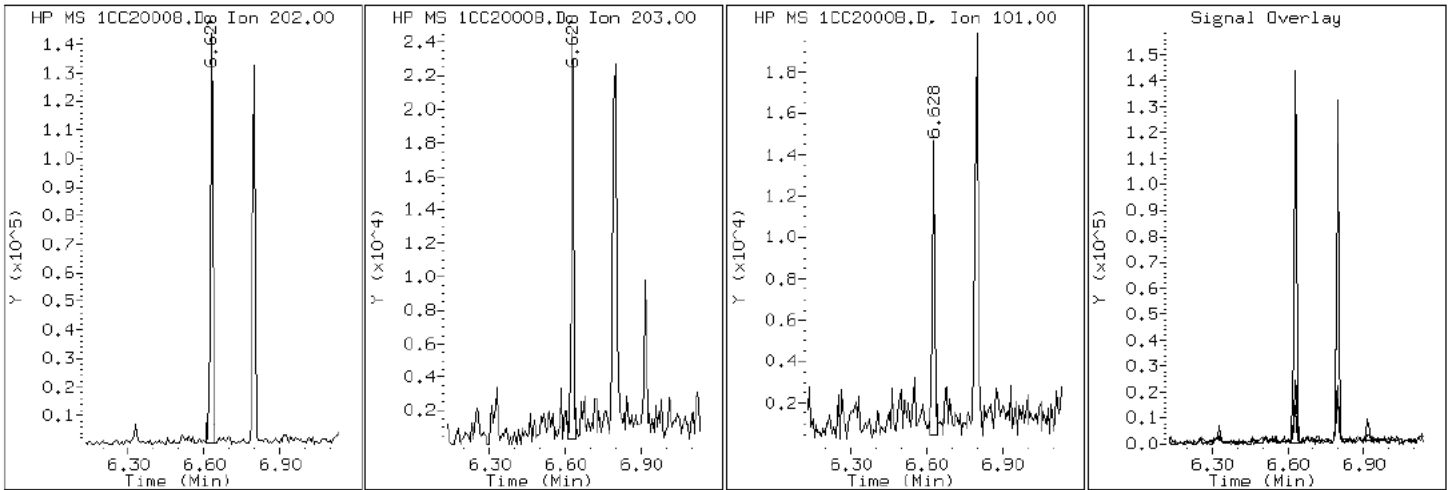
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

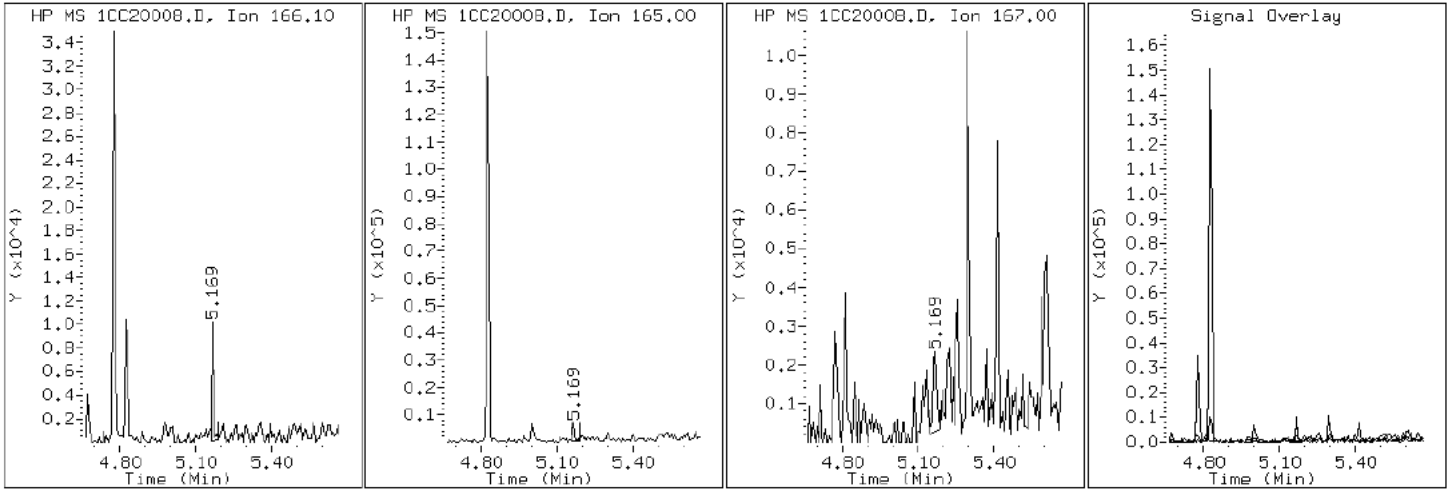
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

9 Fluorene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

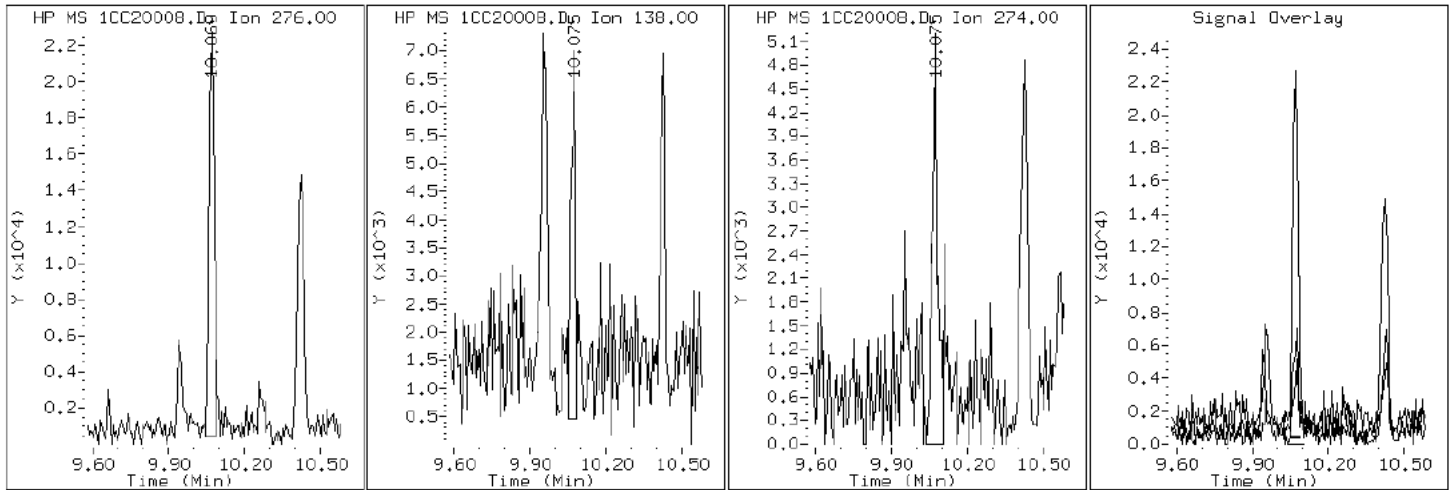
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

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



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

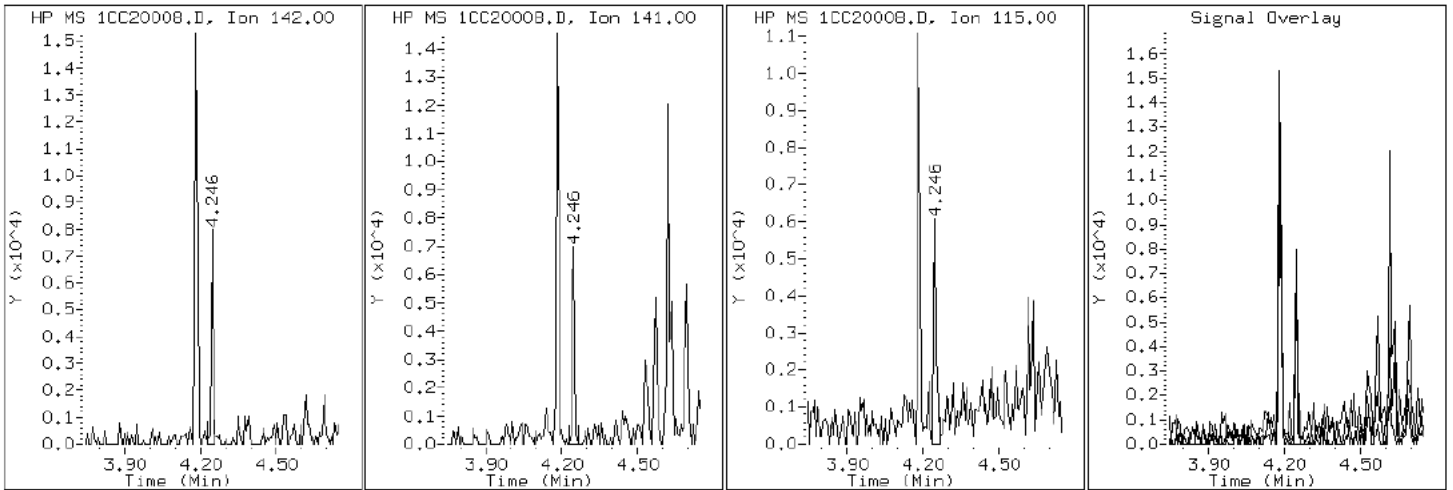
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

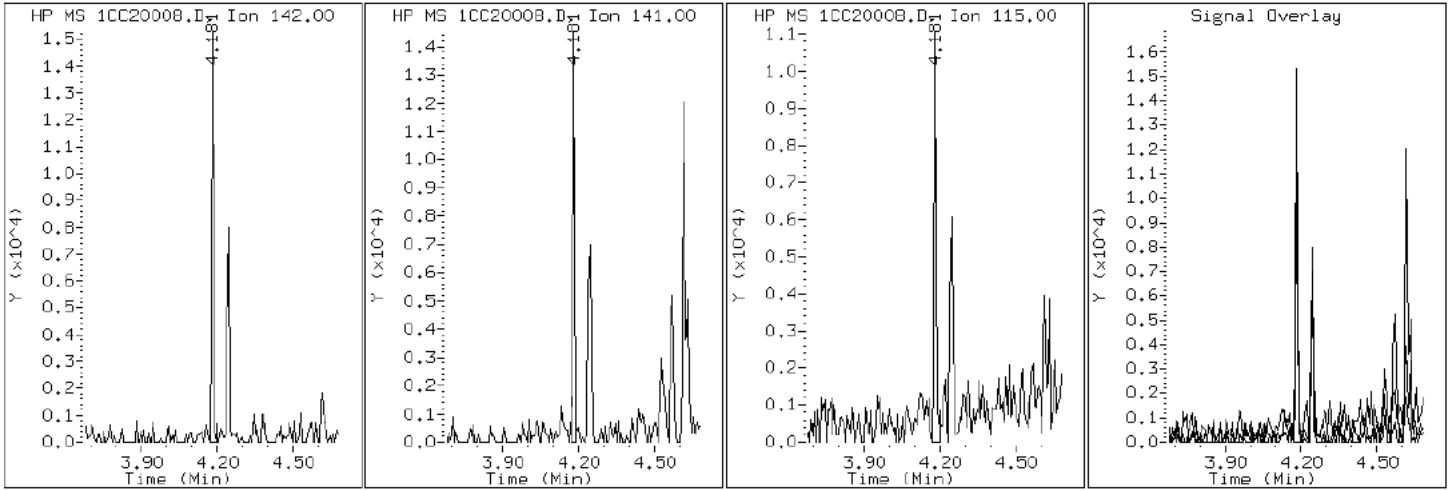
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

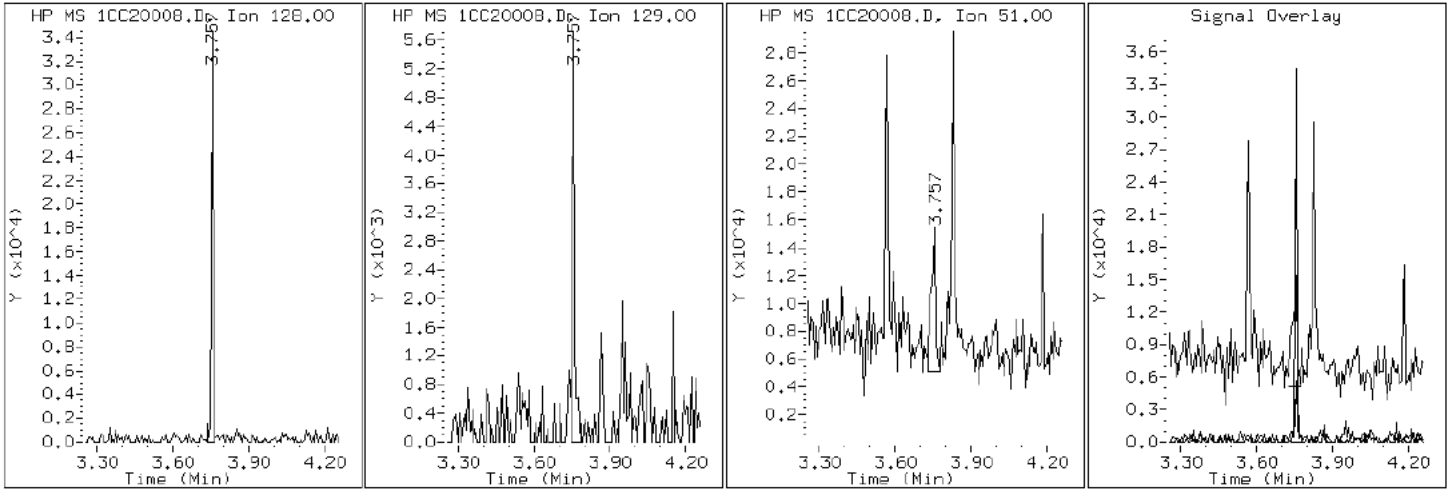
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

2 Naphthalene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

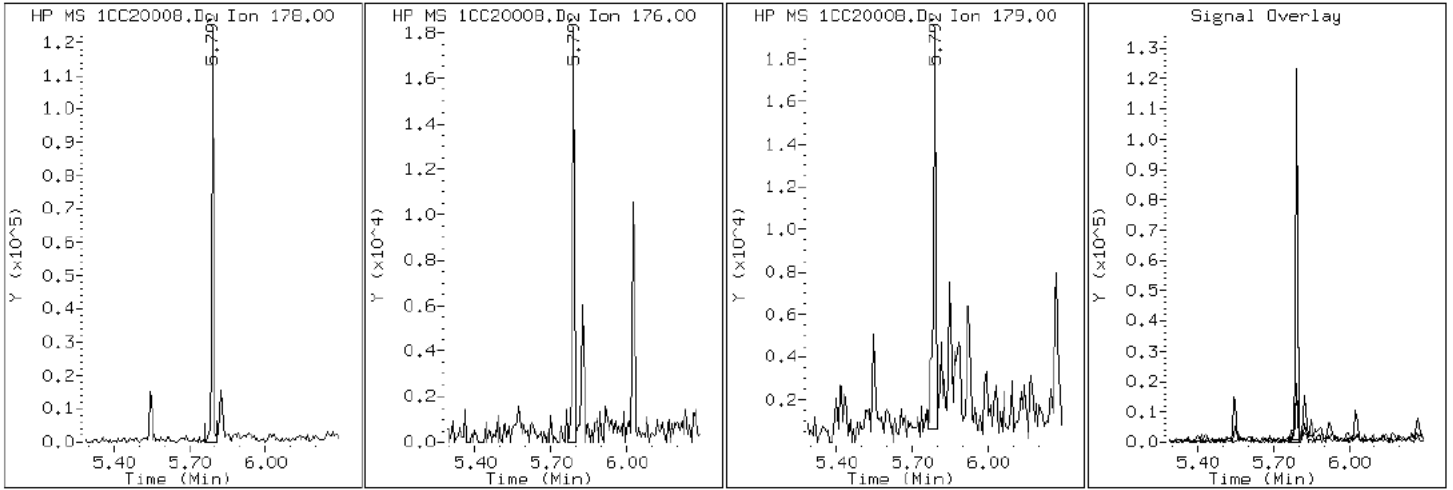
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20008.D

Date: 20-MAR-2013 12:09

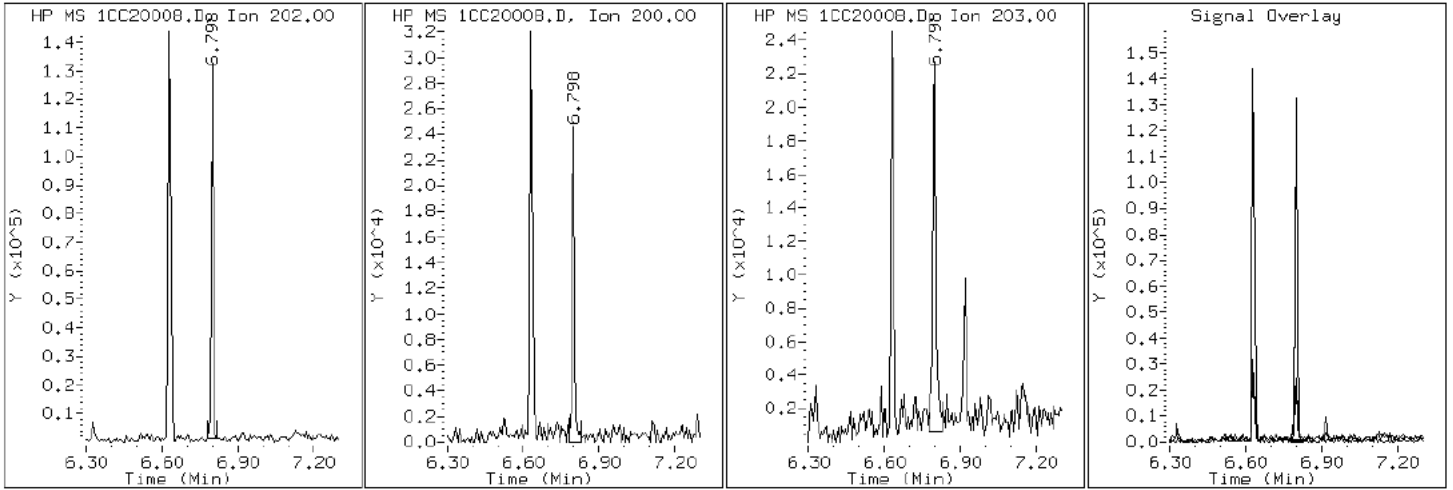
Client ID: CV0348B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-3-a

Operator: SCC

16 Pyrene

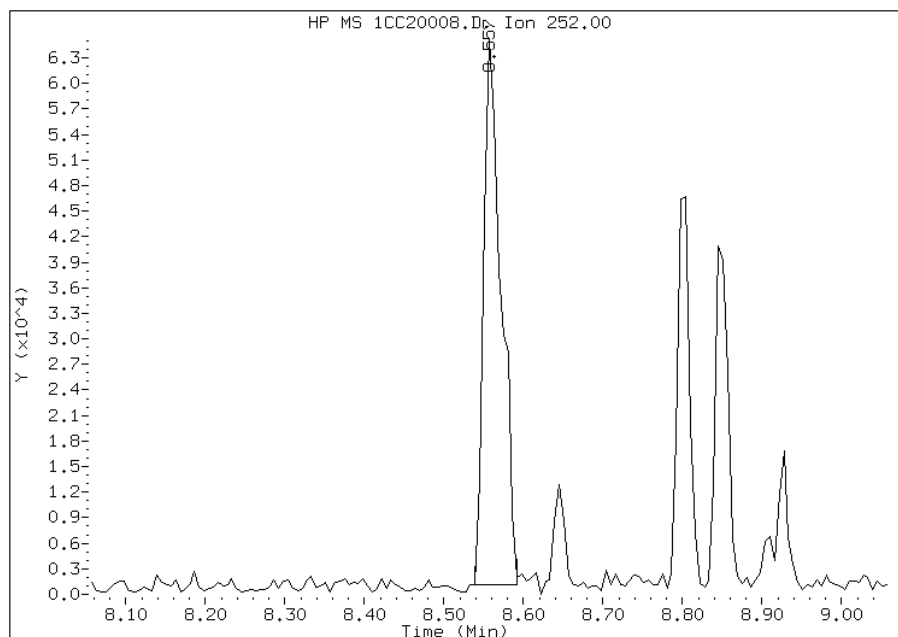


Manual Integration Report

Data File: 1CC20008.D
Inj. Date and Time: 20-MAR-2013 12:09
Instrument ID: BSMC5973.i
Client ID: CV0348B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

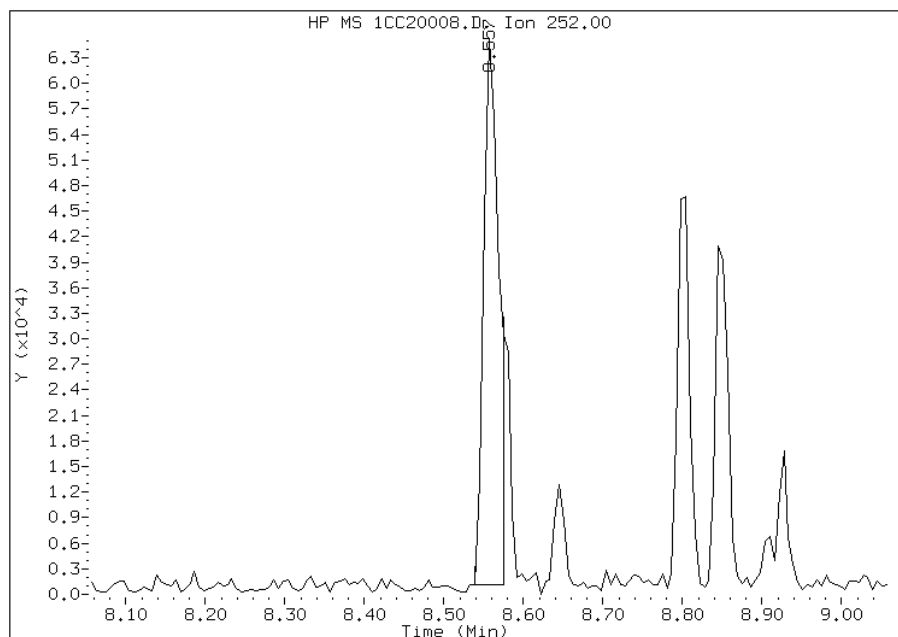
Processing Integration Results

RT: 8.56
Response: 97716
Amount: 3
Conc: 232



Manual Integration Results

RT: 8.56
Response: 84789
Amount: 2
Conc: 202



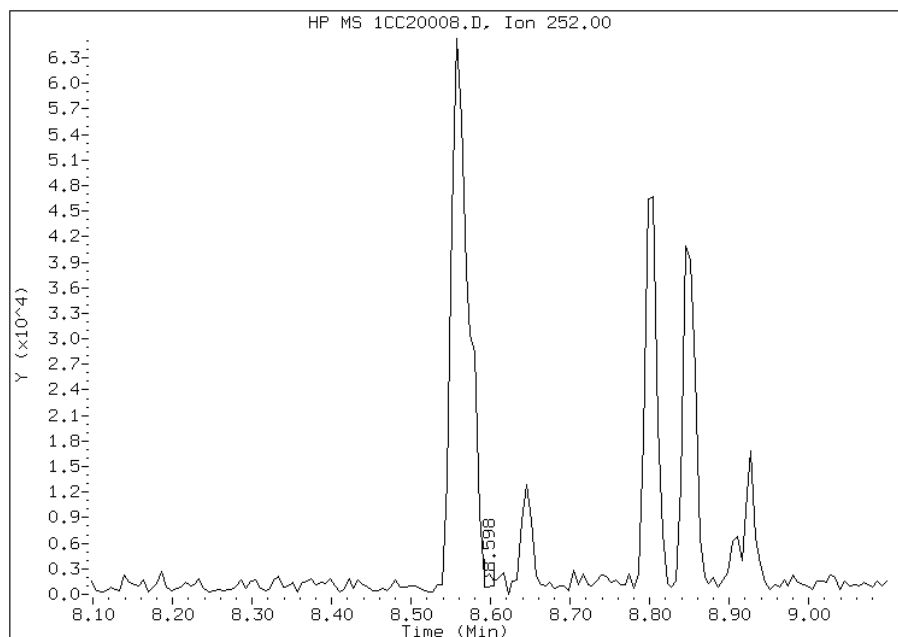
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20008.D
Inj. Date and Time: 20-MAR-2013 12:09
Instrument ID: BSMC5973.i
Client ID: CV0348B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

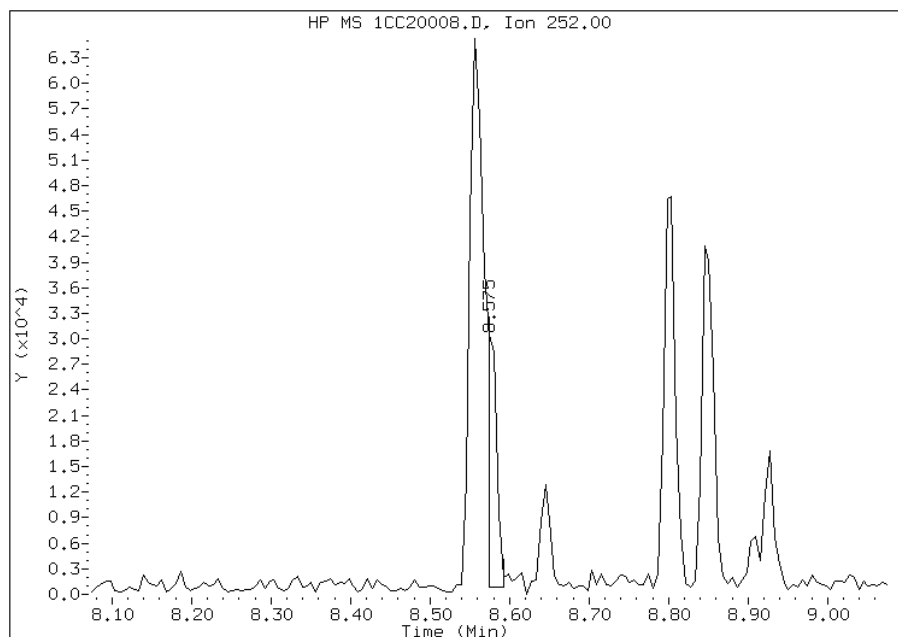
Processing Integration Results

RT: 8.60
Response: 1097
Amount: 0
Conc: 3



Manual Integration Results

RT: 8.57
Response: 23719
Amount: 1
Conc: 55



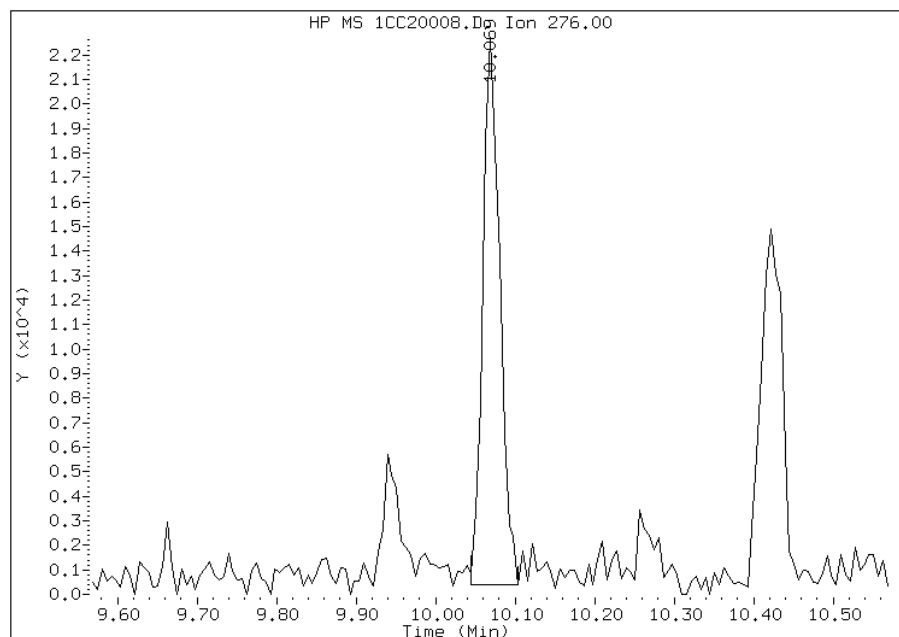
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20008.D
Inj. Date and Time: 20-MAR-2013 12:09
Instrument ID: BSMC5973.i
Client ID: CV0348B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

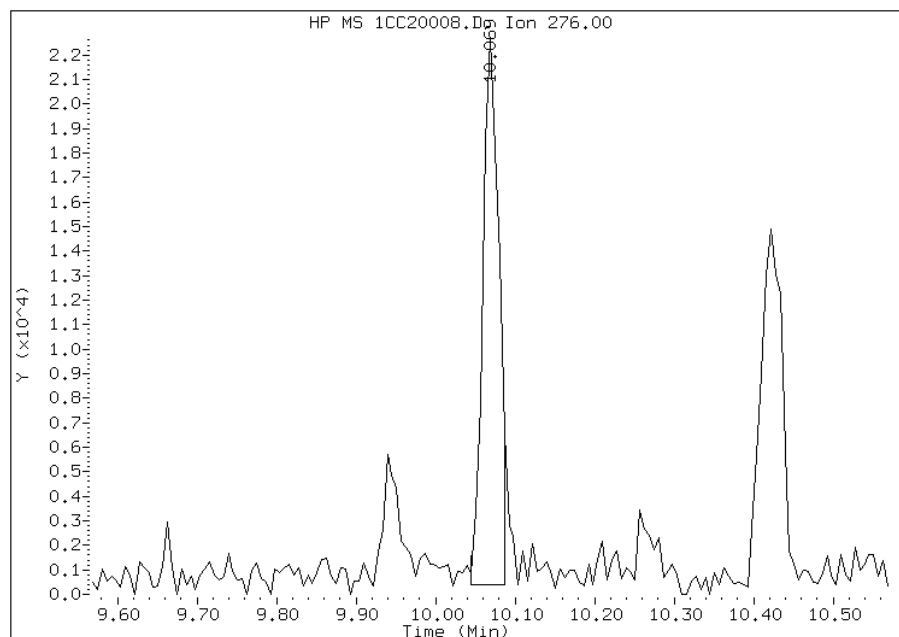
Processing Integration Results

RT: 10.07
Response: 32772
Amount: 1
Conc: 85



Manual Integration Results

RT: 10.07
Response: 31216
Amount: 1
Conc: 81



Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0827A-CS Lab Sample ID: 680-88176-4
 Matrix: Solid Lab File ID: 1CC20009.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 09:20
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.40(g) Date Analyzed: 03/20/2013 12:28
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 25.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	28	J	210	26
120-12-7	Anthracene	31	J	44	22
56-55-3	Benzo[a]anthracene	200		42	20
50-32-8	Benzo[a]pyrene	200		54	27
205-99-2	Benzo[b]fluoranthene	350		63	32
191-24-2	Benzo[g,h,i]perylene	200		100	23
207-08-9	Benzo[k]fluoranthene	100		42	19
218-01-9	Chrysene	300		47	23
53-70-3	Dibenz(a,h)anthracene	53	J	100	21
206-44-0	Fluoranthene	360		100	21
86-73-7	Fluorene	33	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	87	J	100	37
90-12-0	1-Methylnaphthalene	71	J	210	23
91-57-6	2-Methylnaphthalene	94	J	210	37
91-20-3	Naphthalene	90	J	210	23
85-01-8	Phenanthrene	300		42	20
129-00-0	Pyrene	330		100	19

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\1C032013.b\1CC20009.D
 Lab Smp Id: 680-88176-A-4-A Client Smp ID: CV0827A-CS
 Inj Date : 20-MAR-2013 12:28
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-4-a
 Misc Info : 680-88176-A-4-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 9
 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	15.400	Weight Extracted
M	25.107	% 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		3.745	3.745	(1.000)	934137	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	735534	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1382755	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	33370	1.59839	554.3484	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1562605	40.0000		
* 23 Perylene-d12	264		8.903	8.909	(1.000)	1573294	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	6323	0.26000	90.1727(Q)	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	4379	0.26994	93.6208	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	3007	0.20353	70.5873(Q)	
5 Acenaphthylene	152		4.739	4.745	(0.982)	2414	0.08140	28.2323	
9 Fluorene	166		5.168	5.169	(1.071)	2235	0.09588	33.2526	
11 Phenanthrene	178		5.792	5.792	(1.002)	34376	0.85976	298.1796	
12 Anthracene	178		5.827	5.827	(1.008)	3520	0.09002	31.2197	
13 Carbazole	167		5.933	5.933	(1.026)	4462	0.12837	44.5193(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.627	6.633	(1.147)	45541	1.04007	360.7140
16 Pyrene	202	6.798	6.798	(0.880)	39807	0.94795	328.7643
17 Benzo(a)anthracene	228	7.709	7.715	(0.998)	26053	0.57767	200.3470
19 Chrysene	228	7.739	7.739	(1.002)	39003	0.86417	299.7071
20 Benzo(b)fluoranthene	252	8.556	8.562	(0.961)	41105	0.99973	346.7235(M)
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.964)	12535	0.29719	103.0697(QM)
22 Benzo(a)pyrene	252	8.850	8.857	(0.994)	22697	0.56832	197.1021
24 Indeno(1,2,3-cd)pyrene	276	10.062	10.080	(1.130)	9405	0.25034	86.8206(M)
25 Dibenzo(a,h)anthracene	278	10.074	10.098	(1.131)	5662	0.15408	53.4358(M)
26 Benzo(g,h,i)perylene	276	10.421	10.433	(1.170)	23150	0.58905	204.2906

QC Flag Legend

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

Data File: 1CC20009.D

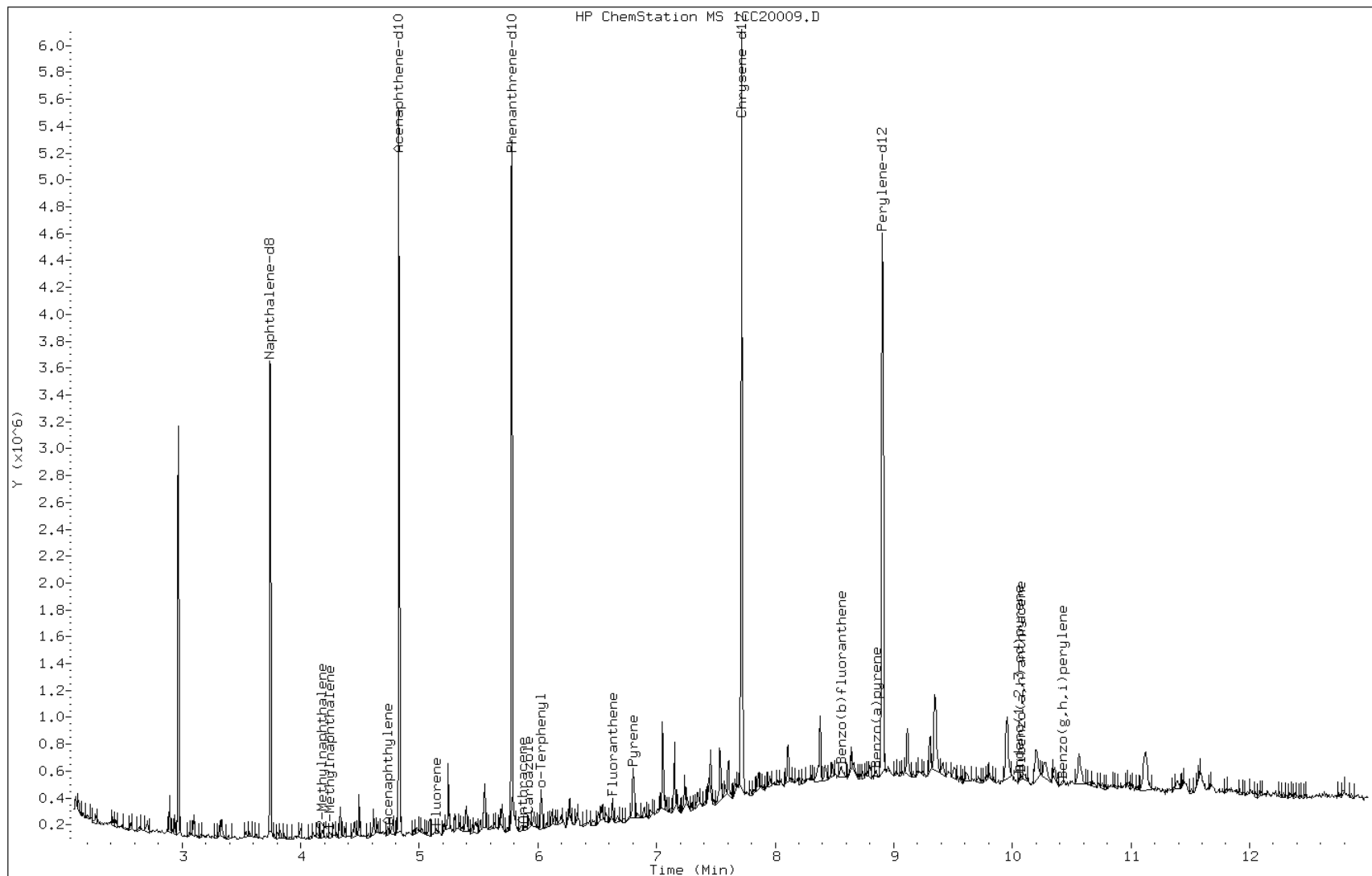
Date: 20-MAR-2013 12:28

Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

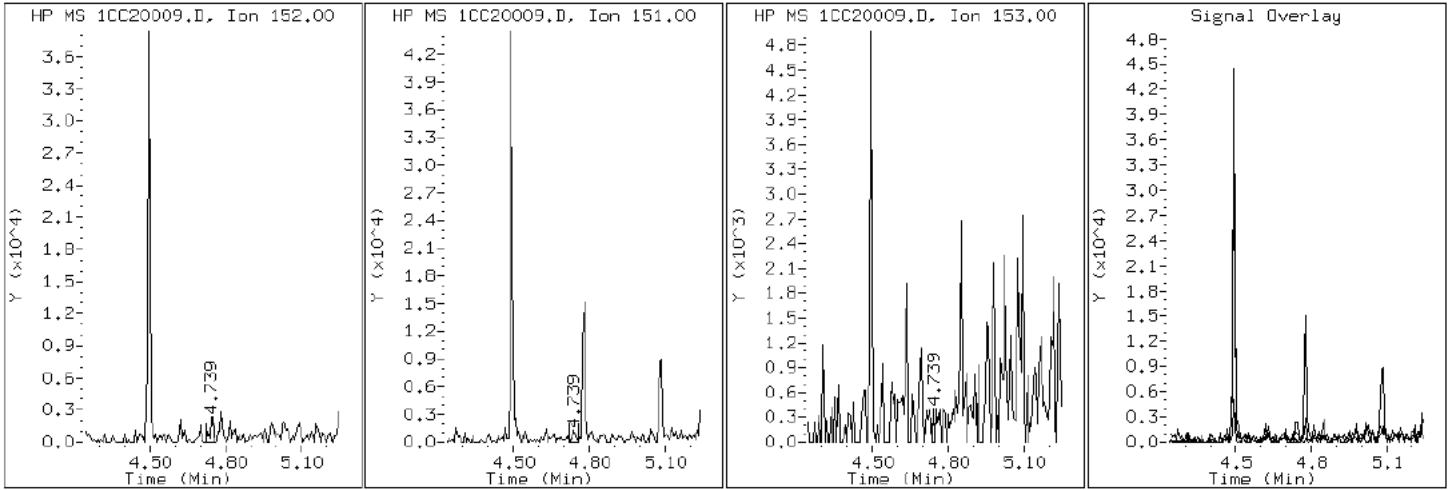
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

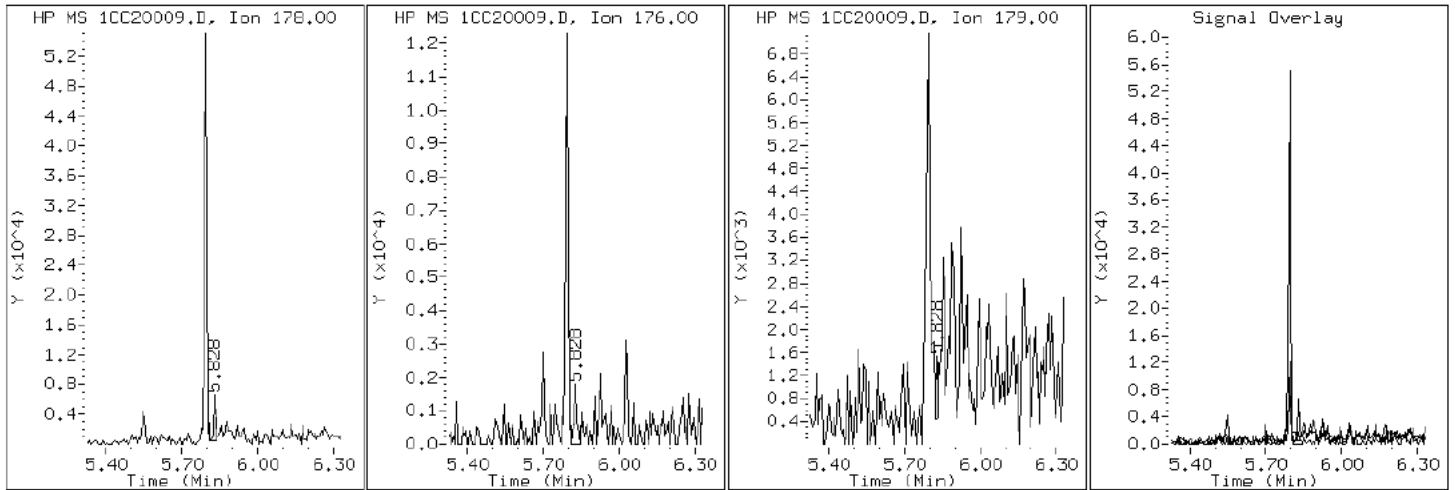
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

12 Anthracene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

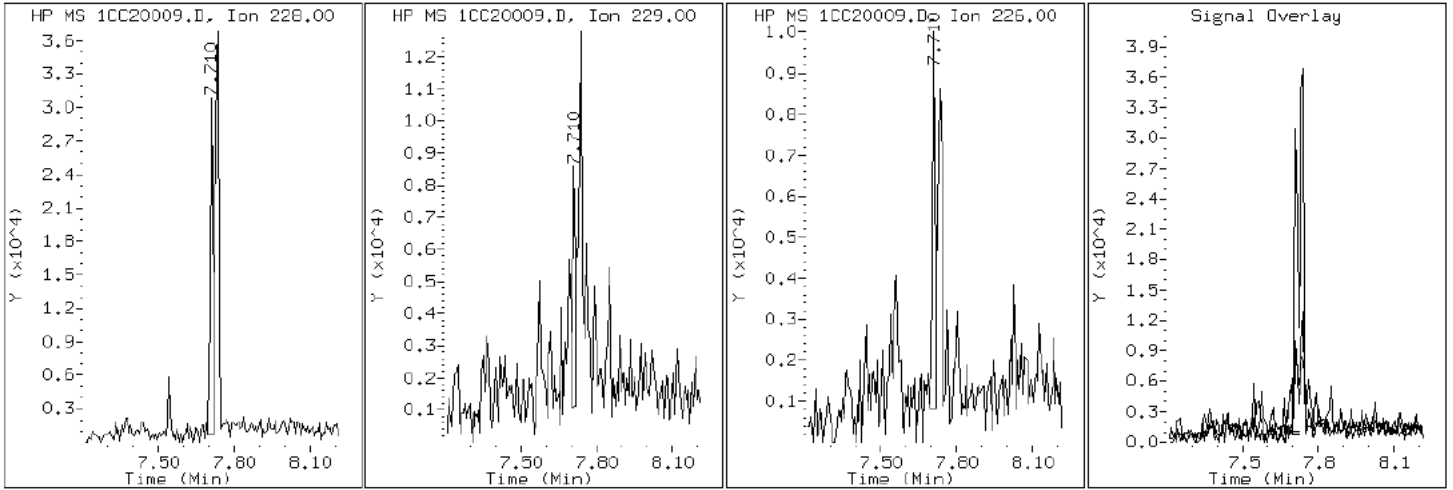
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

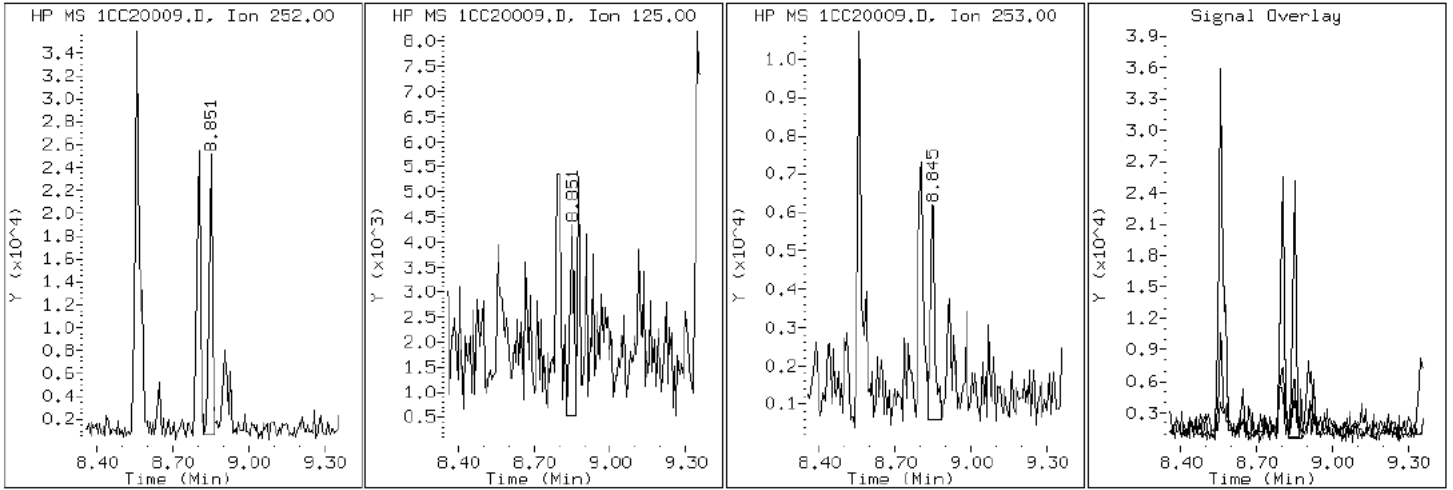
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

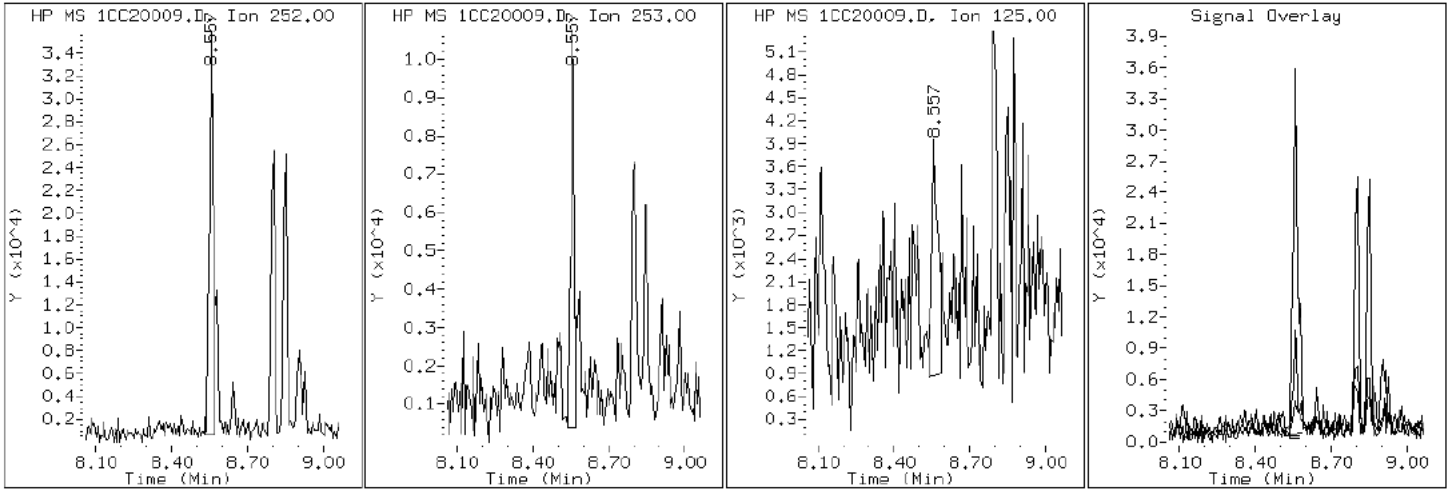
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

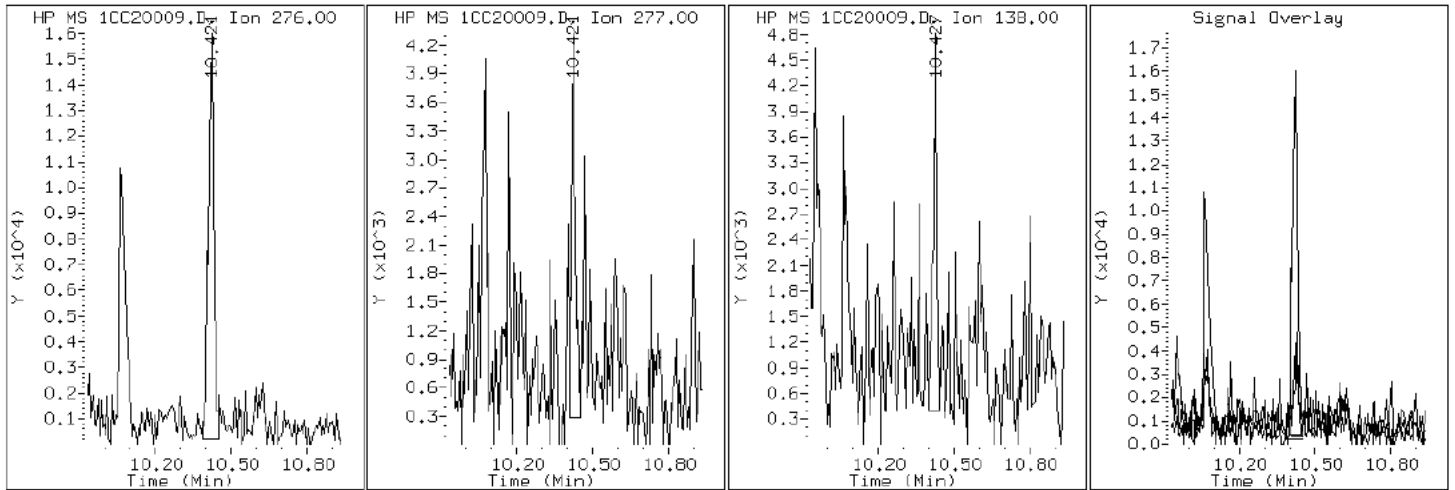
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

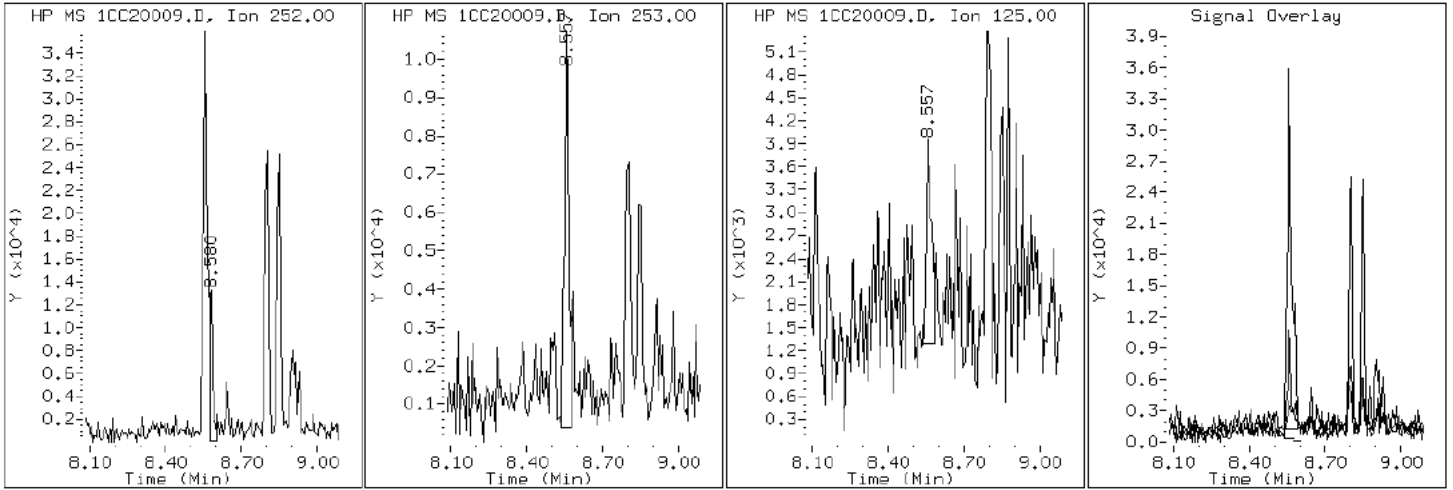
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

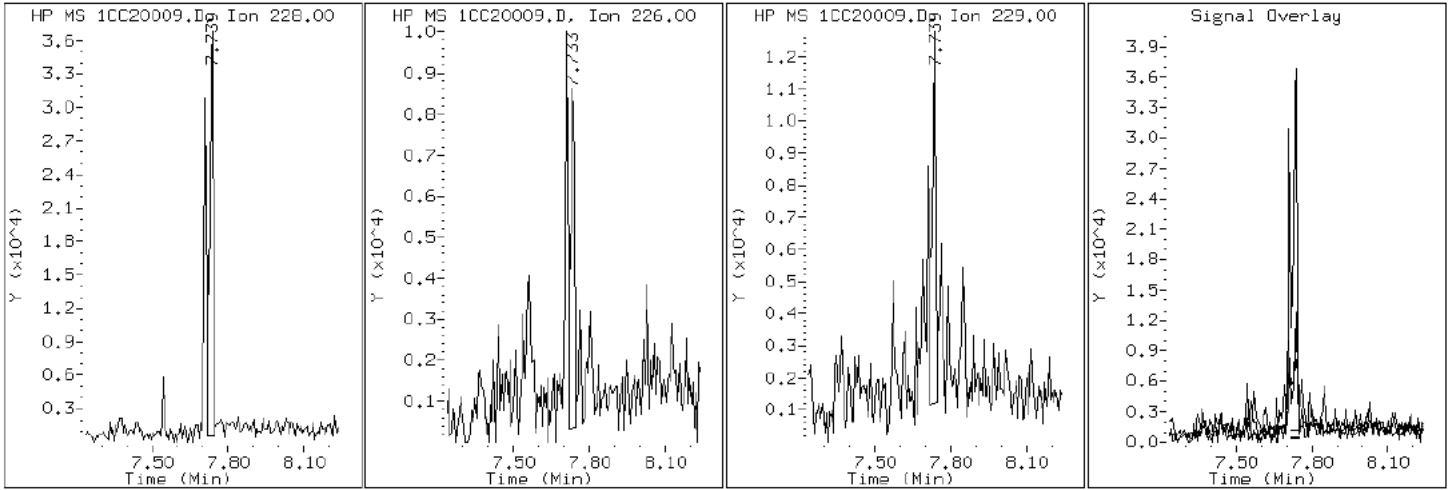
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

19 Chrysene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

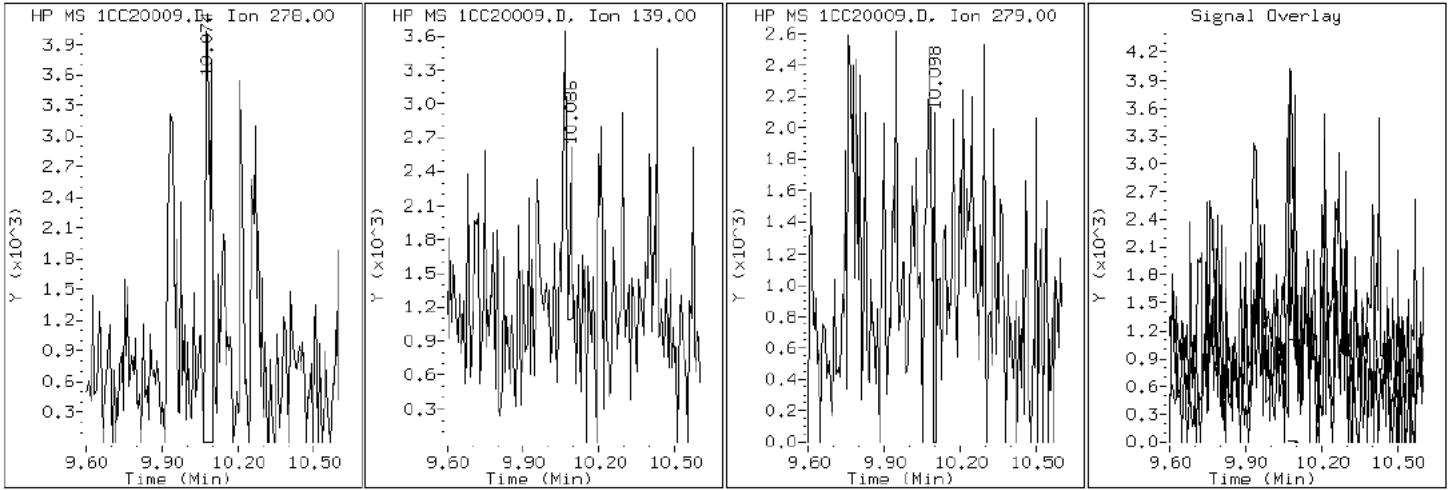
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

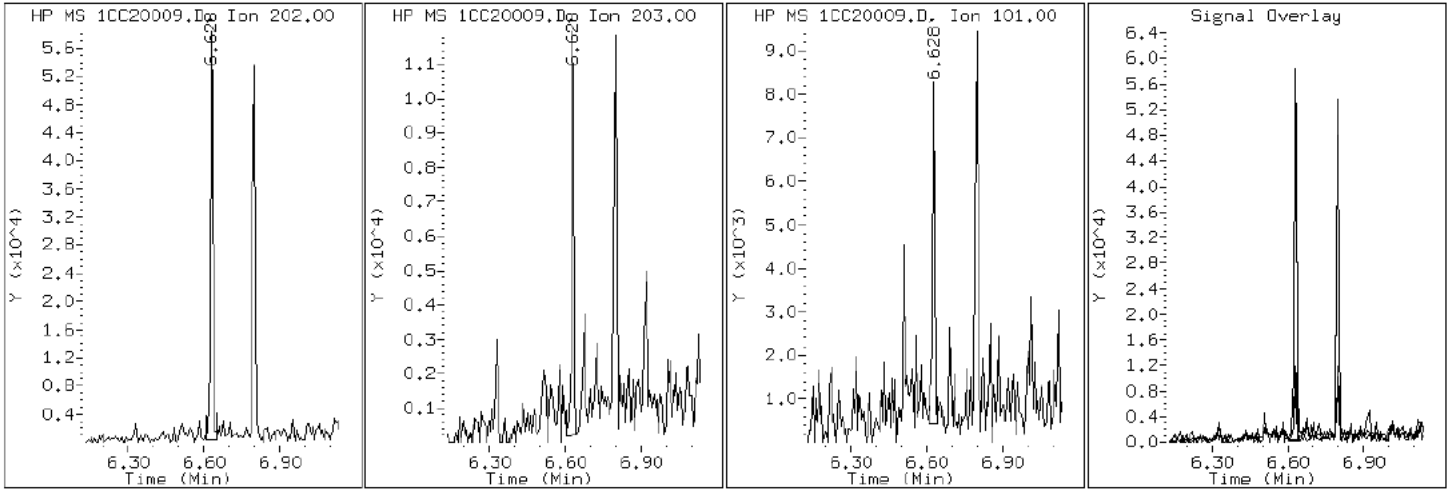
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

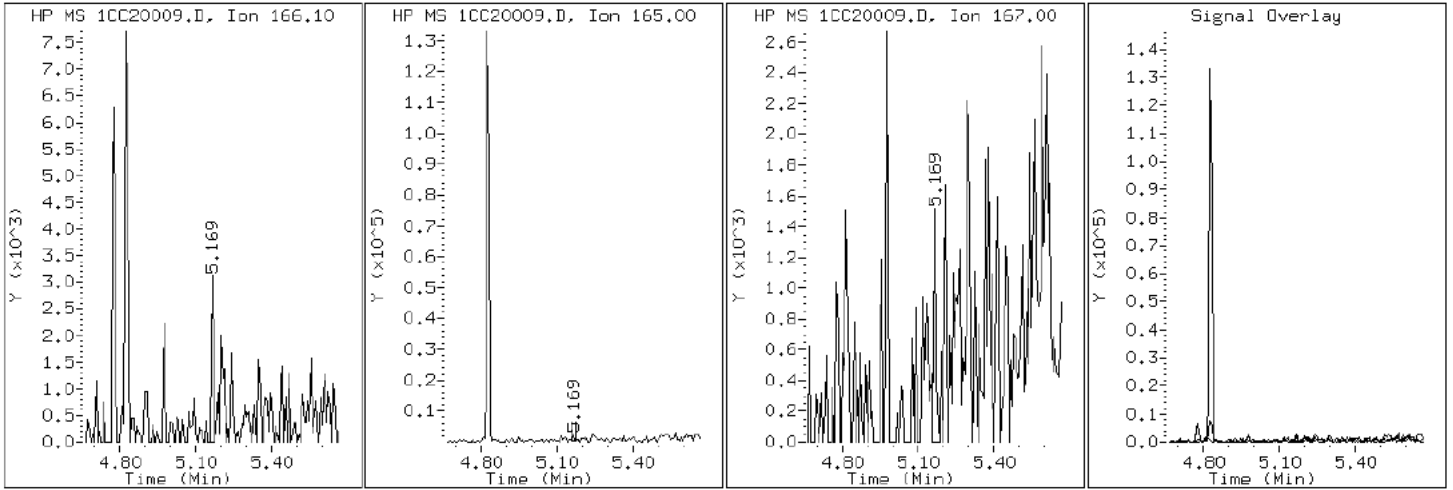
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

9 Fluorene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

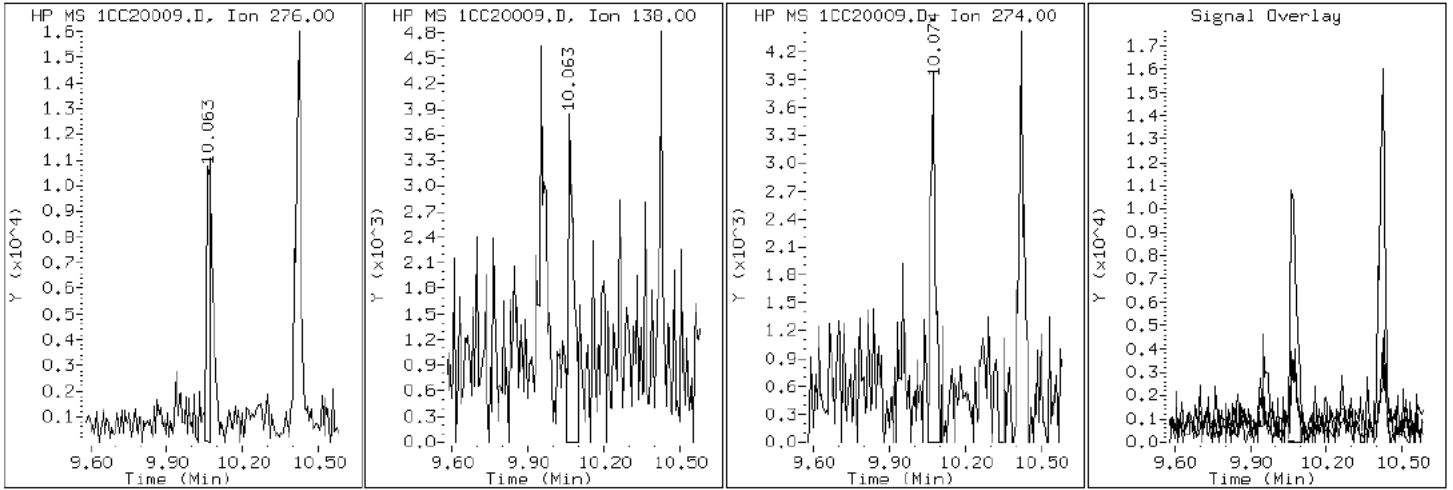
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

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



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

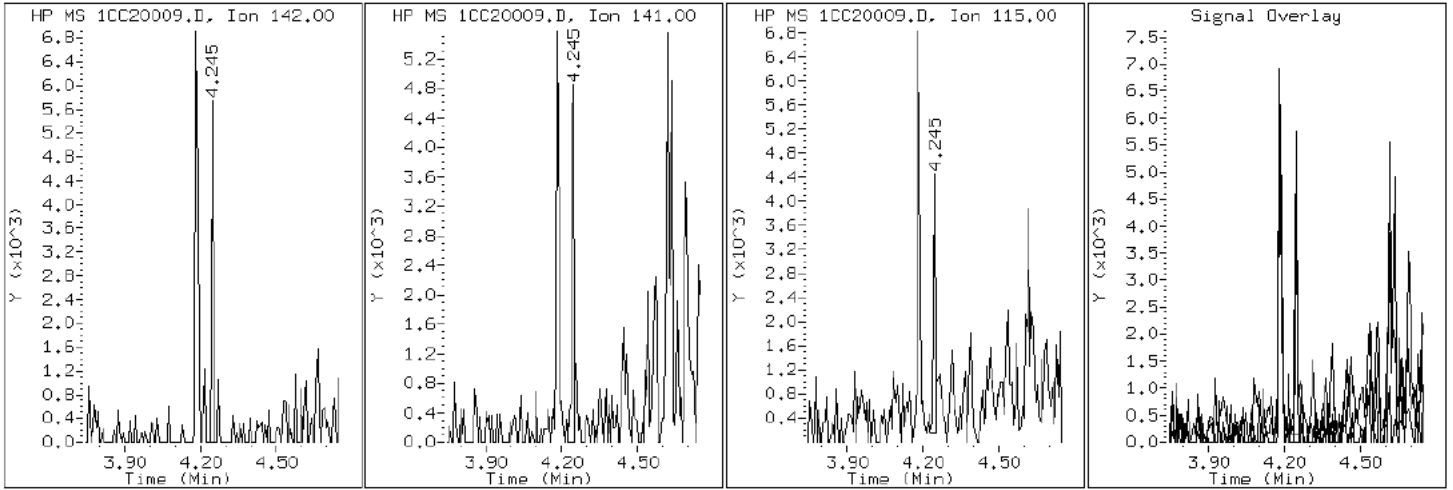
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

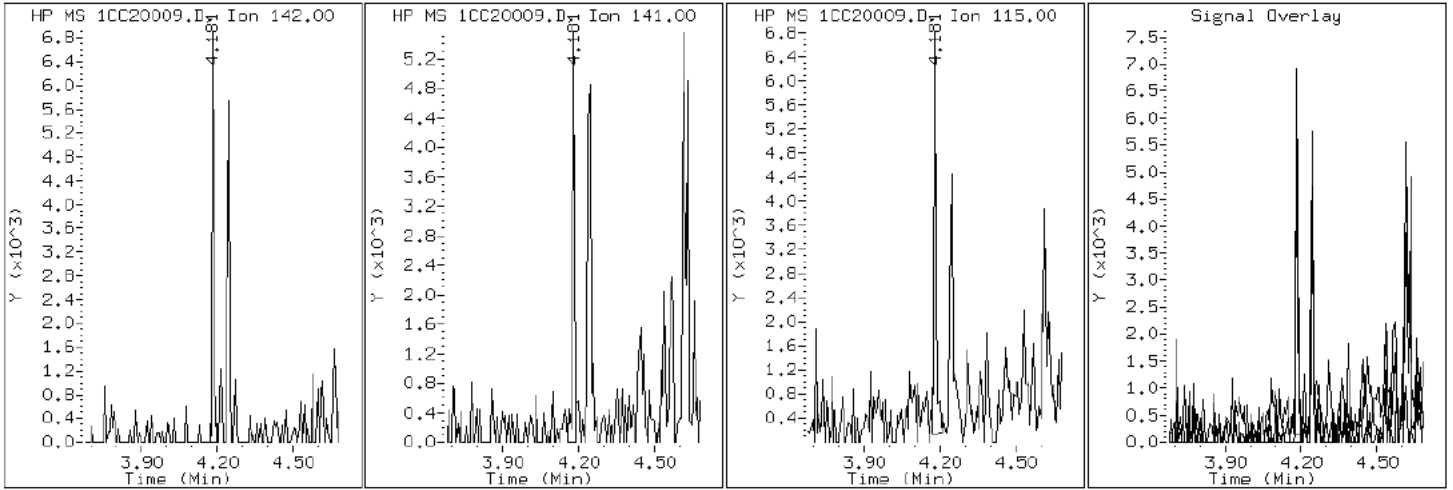
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

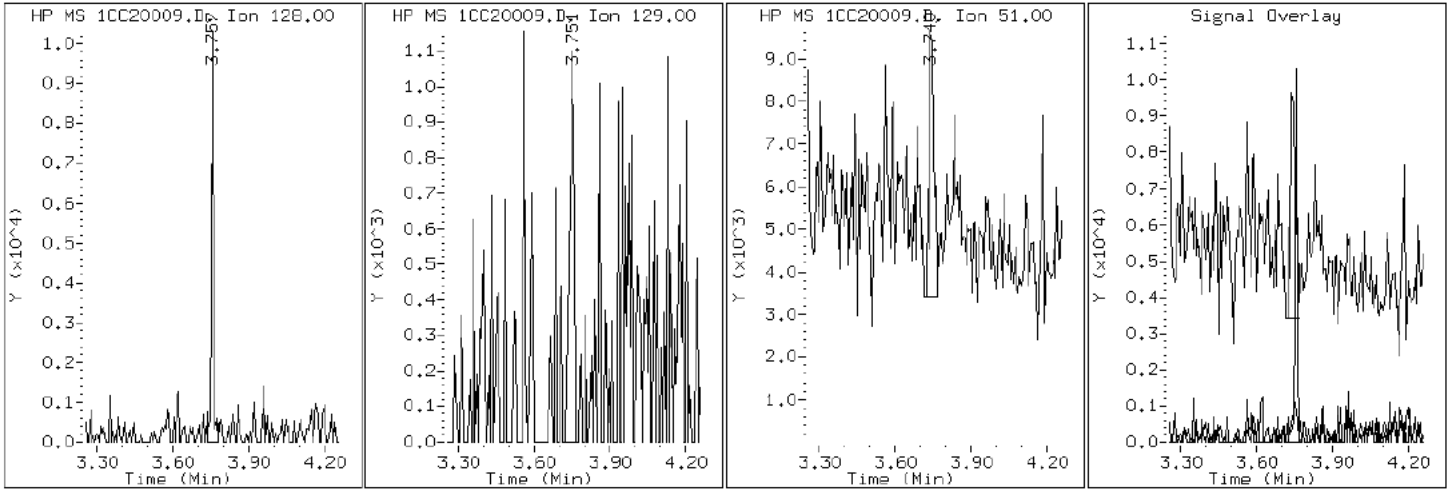
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

2 Naphthalene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

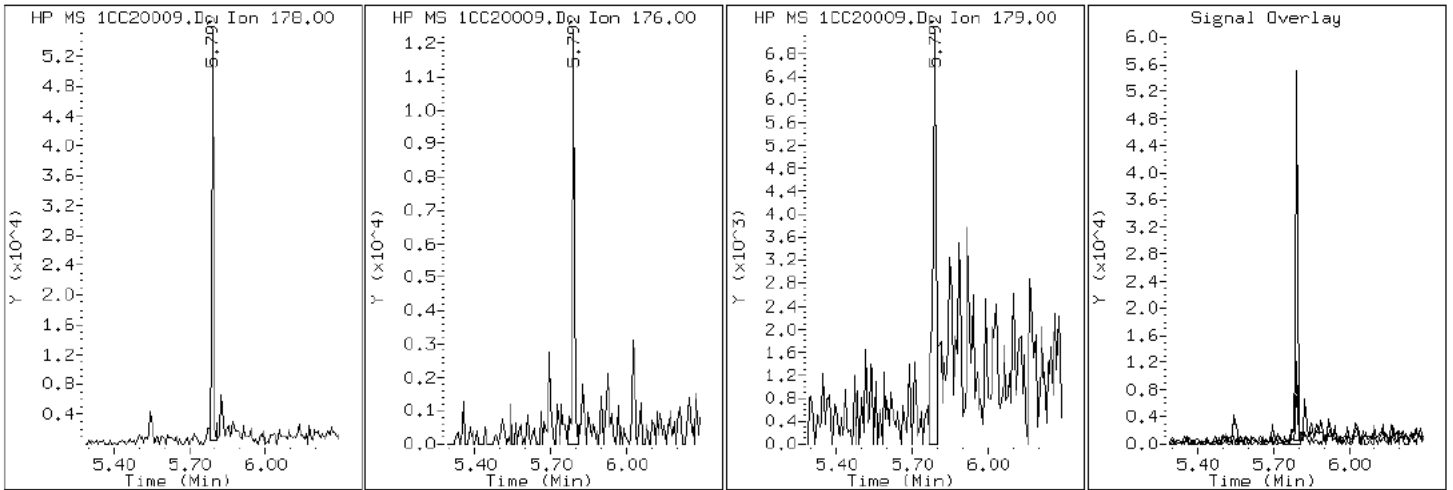
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20009.D

Date: 20-MAR-2013 12:28

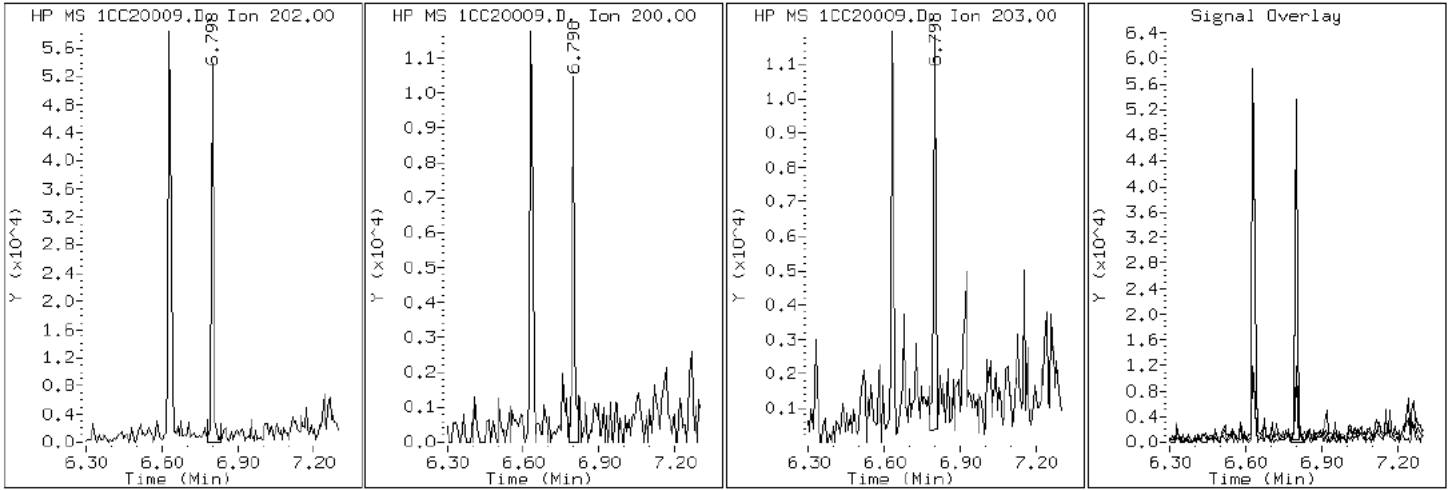
Client ID: CV0827A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-4-a

Operator: SCC

16 Pyrene

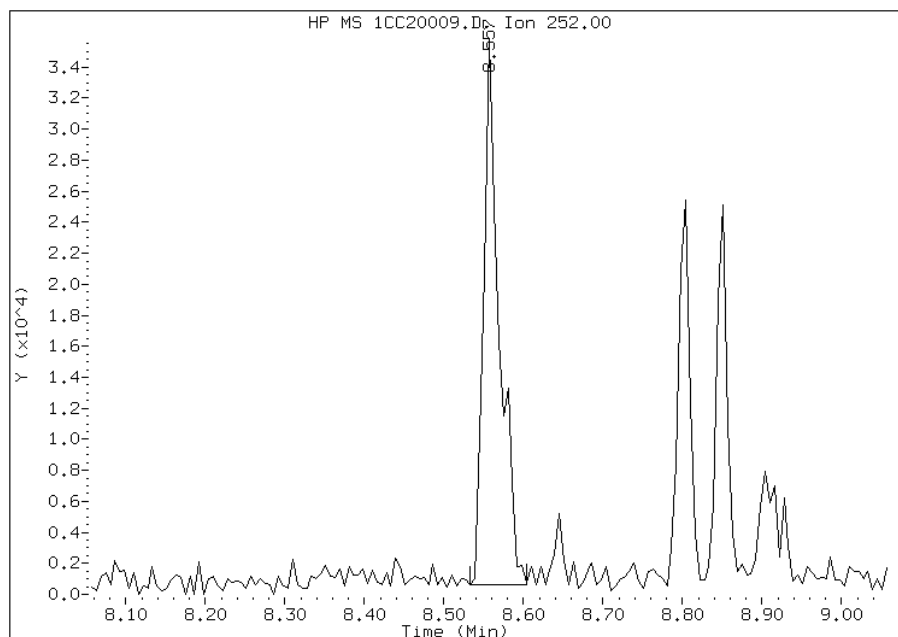


Manual Integration Report

Data File: 1CC20009.D
Inj. Date and Time: 20-MAR-2013 12:28
Instrument ID: BSMC5973.i
Client ID: CV0827A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

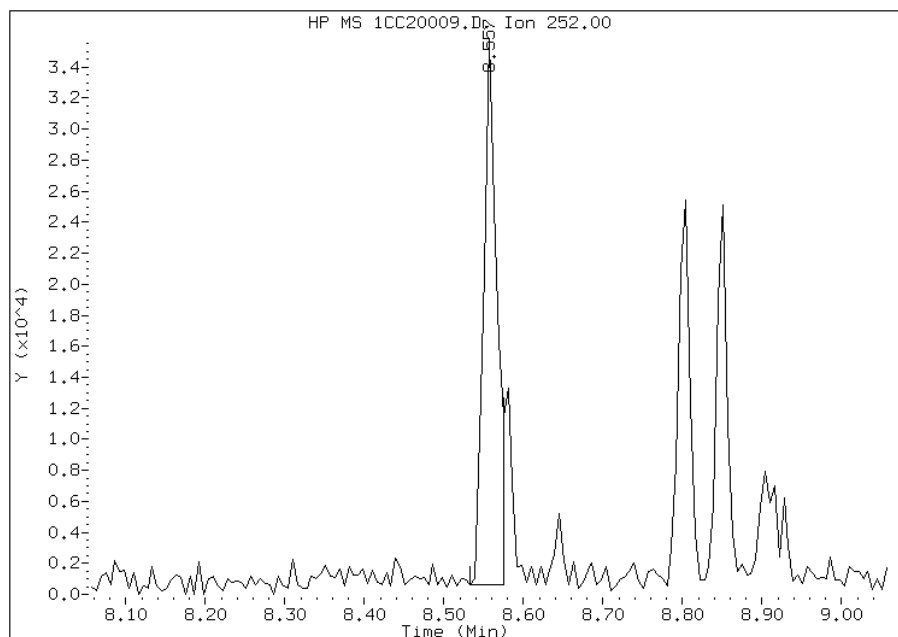
Processing Integration Results

RT: 8.56
Response: 48850
Amount: 1
Conc: 412



Manual Integration Results

RT: 8.56
Response: 41105
Amount: 1
Conc: 347



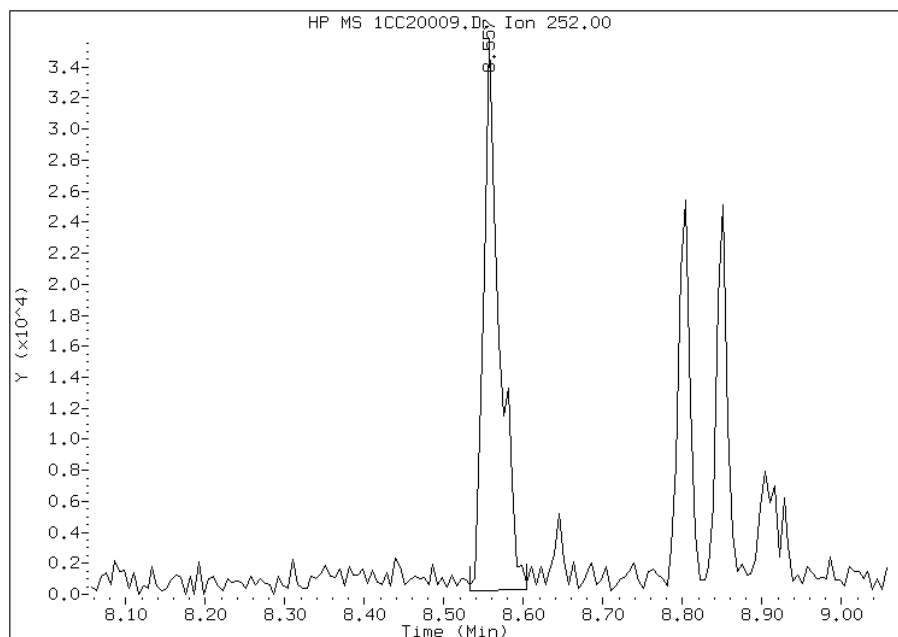
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20009.D
Inj. Date and Time: 20-MAR-2013 12:28
Instrument ID: BSMC5973.i
Client ID: CV0827A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

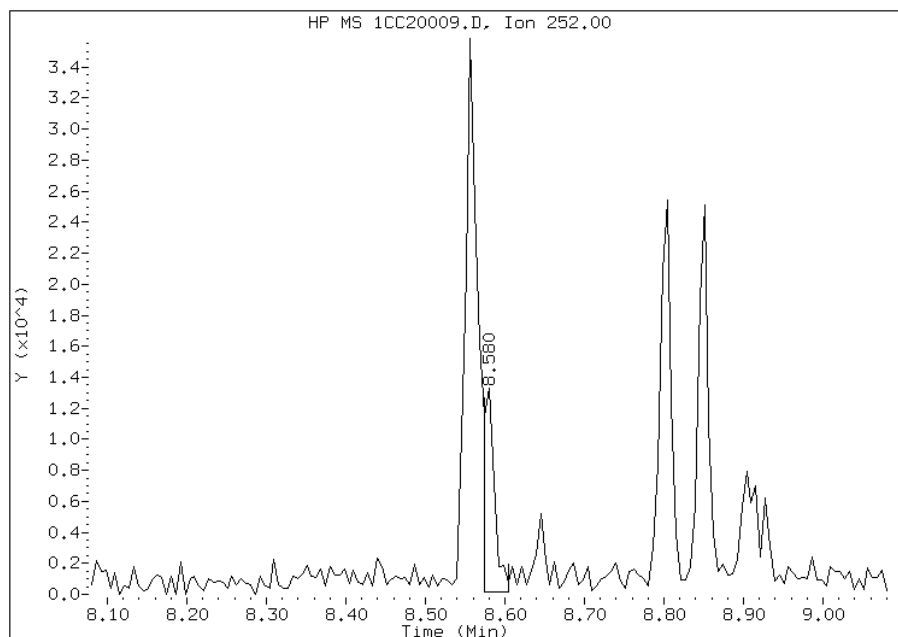
Processing Integration Results

RT: 8.56
Response: 50405
Amount: 1
Conc: 414



Manual Integration Results

RT: 8.58
Response: 12535
Amount: 0
Conc: 103



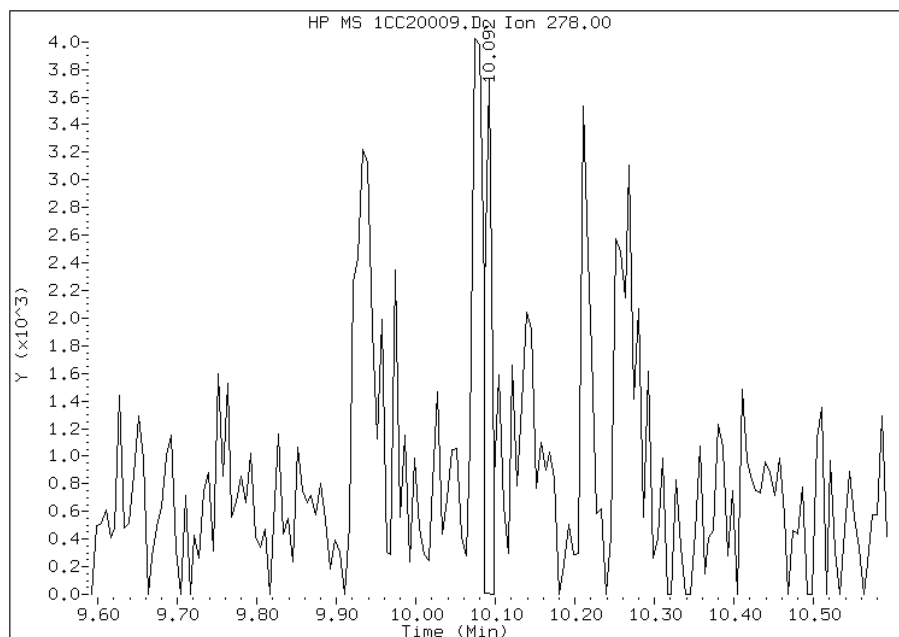
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20009.D
Inj. Date and Time: 20-MAR-2013 12:28
Instrument ID: BSMC5973.i
Client ID: CV0827A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/21/2013

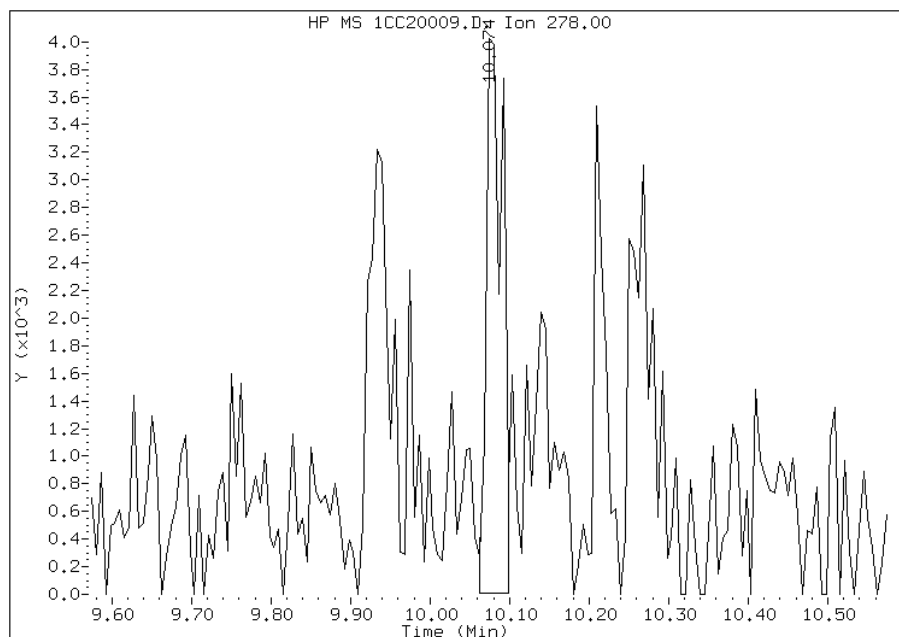
Processing Integration Results

RT: 10.09
Response: 2374
Amount: 0
Conc: 22



Manual Integration Results

RT: 10.07
Response: 5662
Amount: 0
Conc: 53



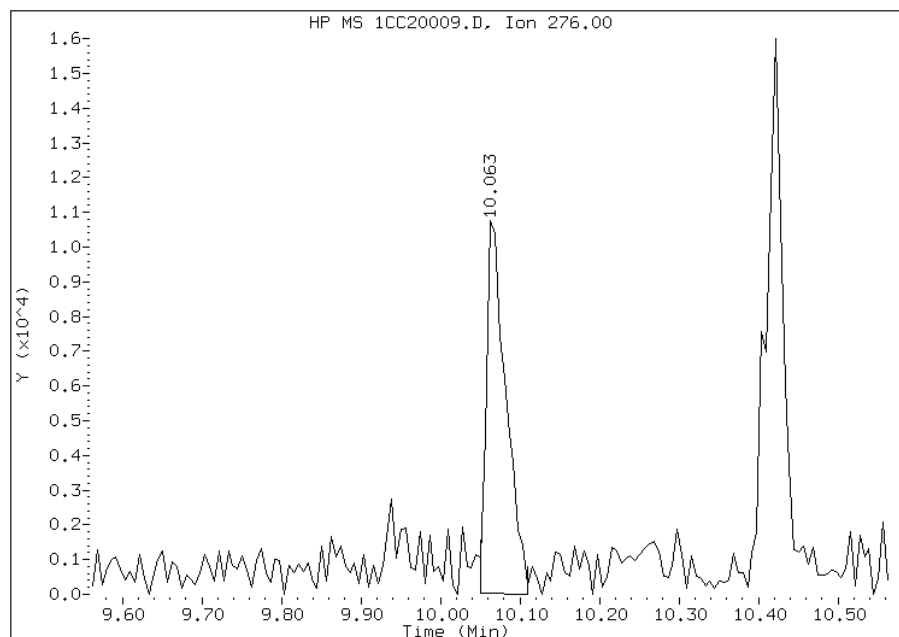
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20009.D
Inj. Date and Time: 20-MAR-2013 12:28
Instrument ID: BSMC5973.i
Client ID: CV0827A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

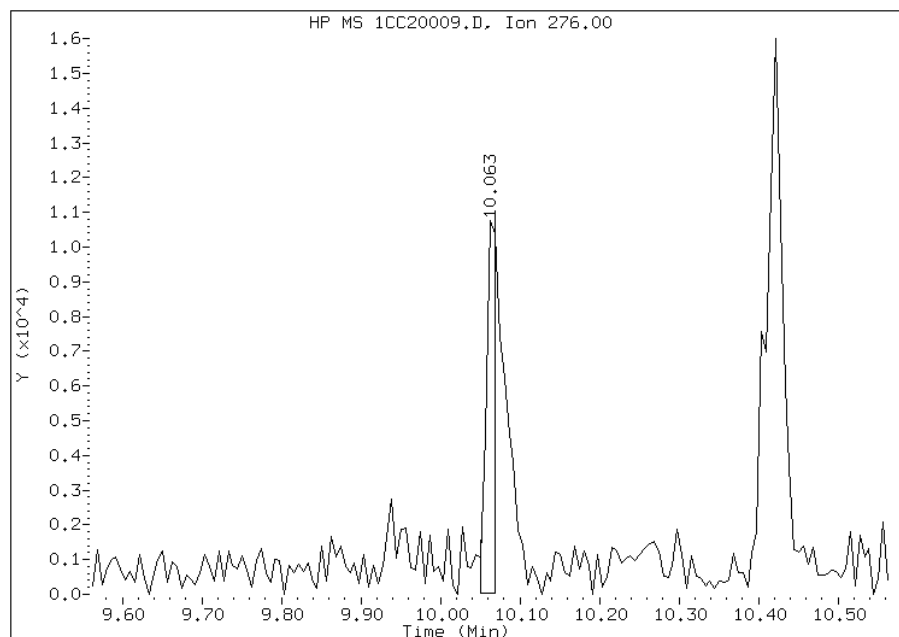
Processing Integration Results

RT: 10.06
Response: 18433
Amount: 0
Conc: 170



Manual Integration Results

RT: 10.06
Response: 9405
Amount: 0
Conc: 87



Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0827B-CS Lab Sample ID: 680-88176-5
 Matrix: Solid Lab File ID: 1CC20010.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 09:30
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.42(g) Date Analyzed: 03/20/2013 12:46
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 29.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	240	F	220	28
120-12-7	Anthracene	110	F	47	23
56-55-3	Benzo[a]anthracene	500	F	44	22
50-32-8	Benzo[a]pyrene	350	F	58	29
205-99-2	Benzo[b]fluoranthene	630	F	68	34
191-24-2	Benzo[g,h,i]perylene	300	F	110	24
207-08-9	Benzo[k]fluoranthene	220	F	44	20
218-01-9	Chrysene	960	F	50	25
53-70-3	Dibenz(a,h)anthracene	100	J F	110	23
206-44-0	Fluoranthene	740	F	110	22
86-73-7	Fluorene	100	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	160	F	110	39
90-12-0	1-Methylnaphthalene	1100	F	220	24
91-57-6	2-Methylnaphthalene	1100	F	220	39
91-20-3	Naphthalene	1700	F	220	24
85-01-8	Phenanthrene	1200	F	44	22
129-00-0	Pyrene	700	F	110	21

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\1C032013.b\1CC20010.D
 Lab Smp Id: 680-88176-A-5-A Client Smp ID: CV0827B-CS
 Inj Date : 20-MAR-2013 12:46
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-5-a
 Misc Info : 680-88176-A-5-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 10
 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	15.420	Weight Extracted
M	29.812	% 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		3.745	3.745	(1.000)	802662	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	622368	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1169208	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	32319	1.83079	676.6315	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1345113	40.0000		
* 23 Perylene-d12	264		8.909	8.909	(1.000)	1328377	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	95786	4.58387	1694.1277	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	41131	2.95084	1090.5837	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	37545	2.95749	1093.0437	
5 Acenaphthylene	152		4.739	4.745	(0.982)	16427	0.65467	241.9571	
9 Fluorene	166		5.169	5.169	(1.071)	5465	0.27707	102.4020(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	105352	3.11616	1151.6834	
12 Anthracene	178		5.827	5.827	(1.008)	9929	0.30029	110.9838	
13 Carbazole	167		5.933	5.933	(1.026)	7289	0.24799	91.6546(Q)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.633	6.633	(1.148)	74441	2.01060	743.0883
16 Pyrene	202	6.798	6.798	(0.880)	68602	1.89781	701.4016
17 Benzo(a)anthracene	228	7.710	7.715	(0.998)	52719	1.35795	501.8766(Q)
19 Chrysene	228	7.739	7.739	(1.002)	100868	2.59623	959.5269
20 Benzo(b)fluoranthene	252	8.557	8.562	(0.960)	58810	1.69406	626.0985(M)
21 Benzo(k)fluoranthene	252	8.574	8.586	(0.962)	21249	0.59667	220.5201(QM)
22 Benzo(a)pyrene	252	8.851	8.857	(0.993)	32289	0.95756	353.8998
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.080	(1.131)	13811	0.43539	160.9133(M)
25 Dibenzo(a,h)anthracene	278	10.086	10.098	(1.132)	8474	0.27311	100.9378(Q)
26 Benzo(g,h,i)perylene	276	10.427	10.433	(1.170)	26665	0.80358	296.9900

QC Flag Legend

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

Data File: 1CC20010.D

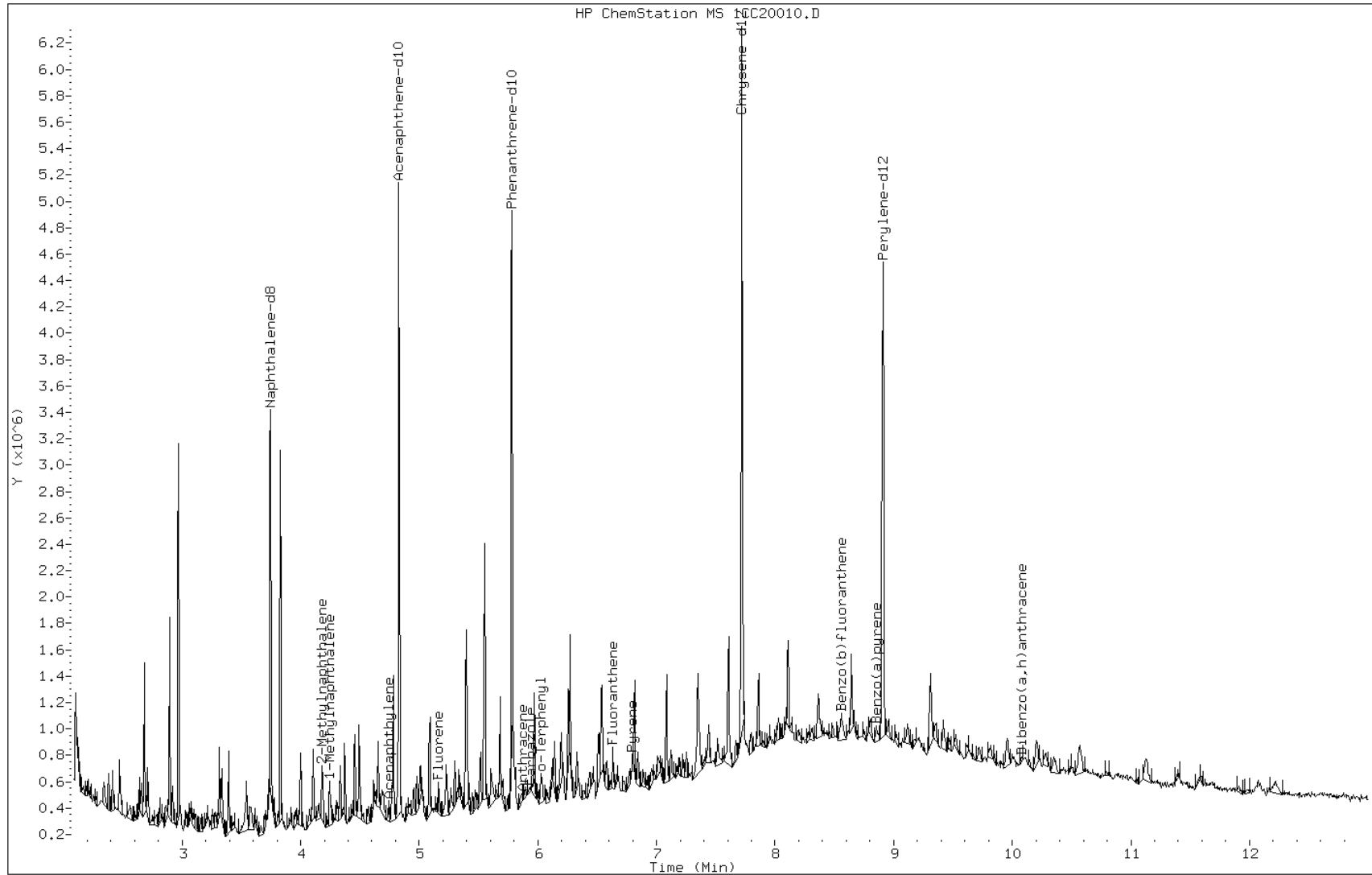
Date: 20-MAR-2013 12:46

Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

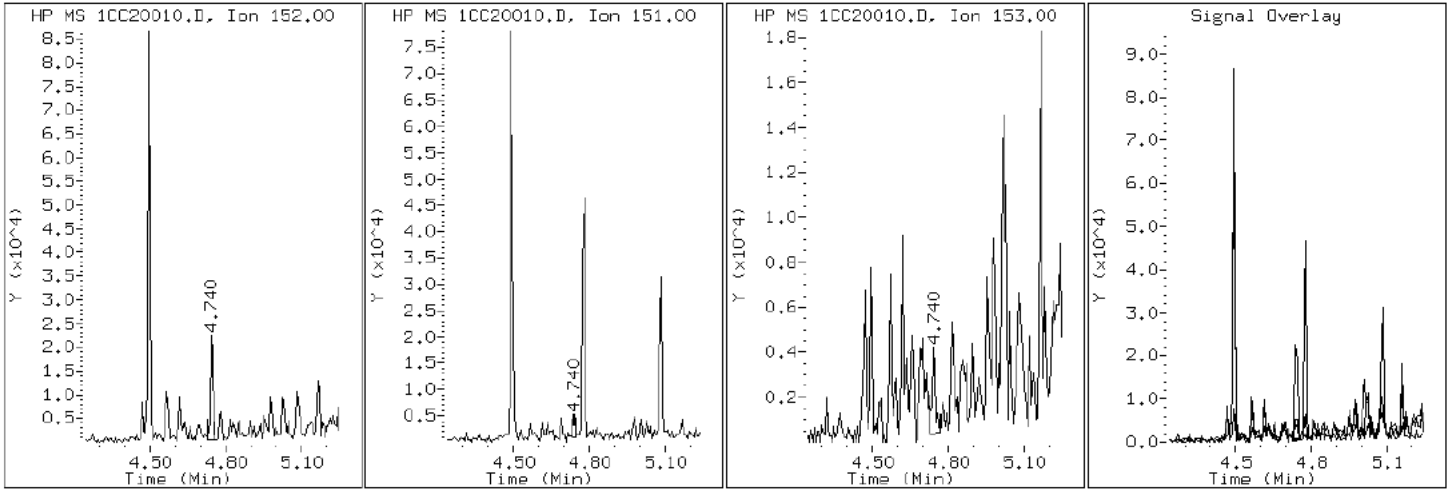
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

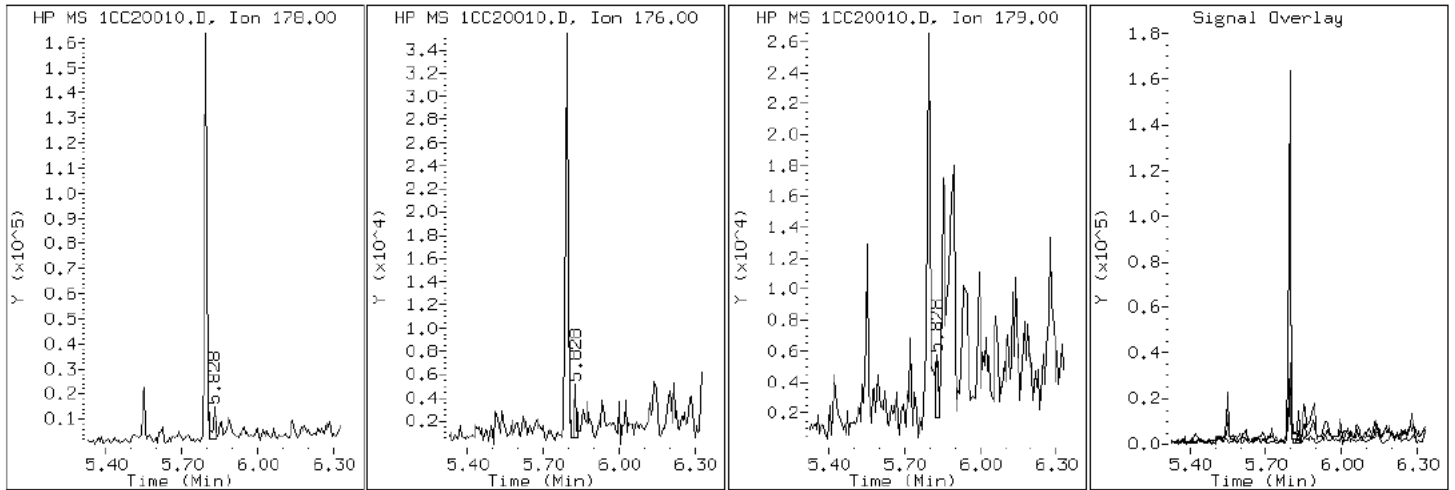
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

12 Anthracene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

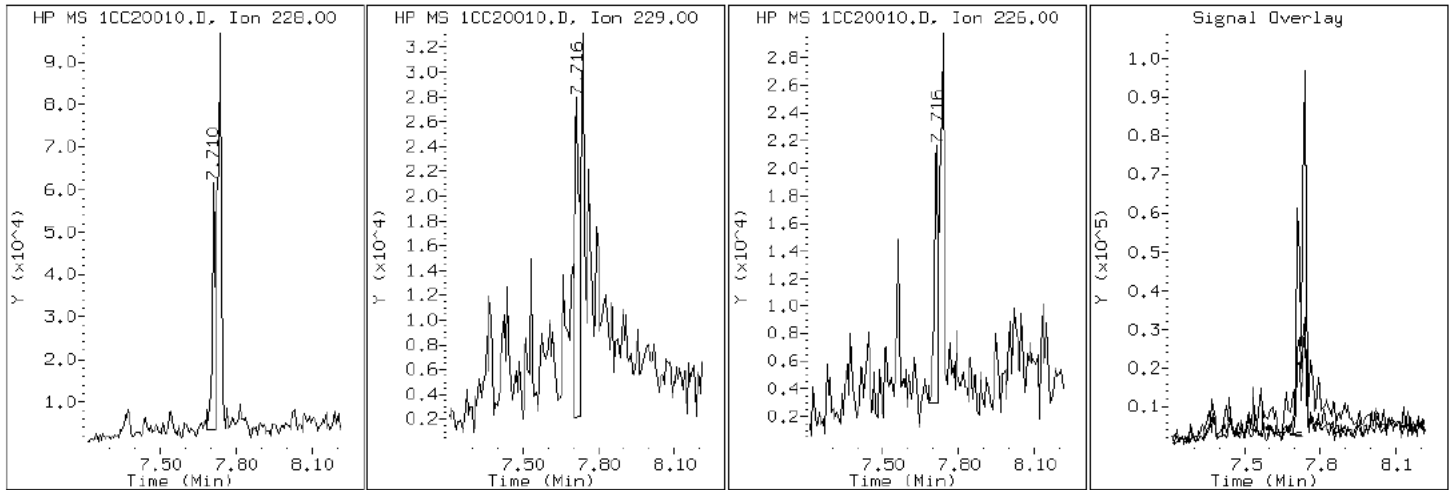
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

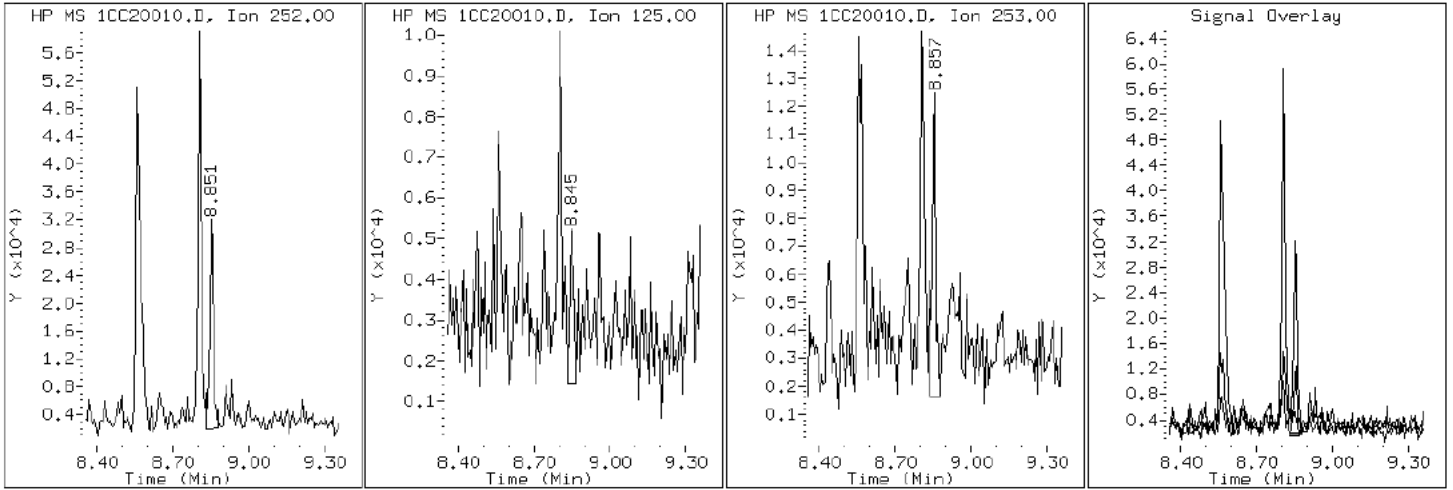
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

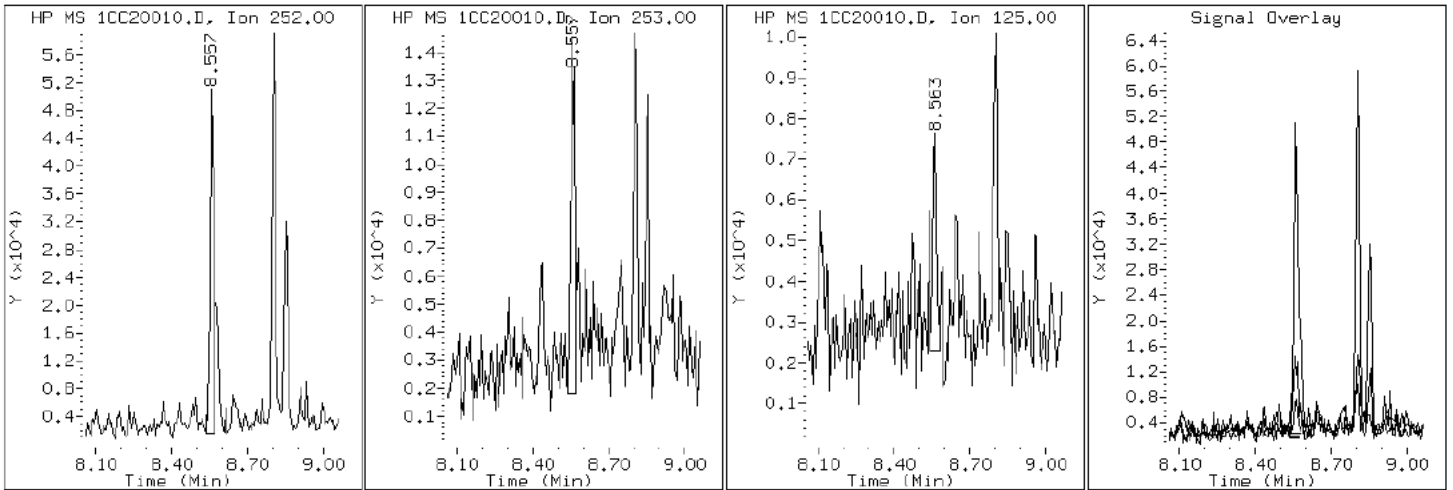
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

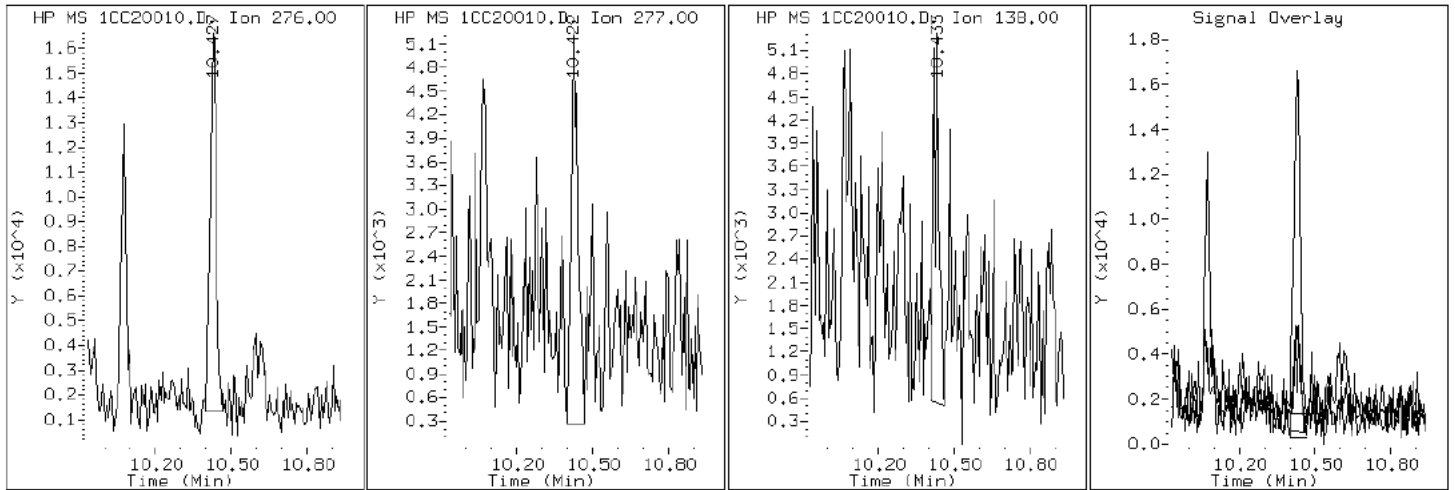
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

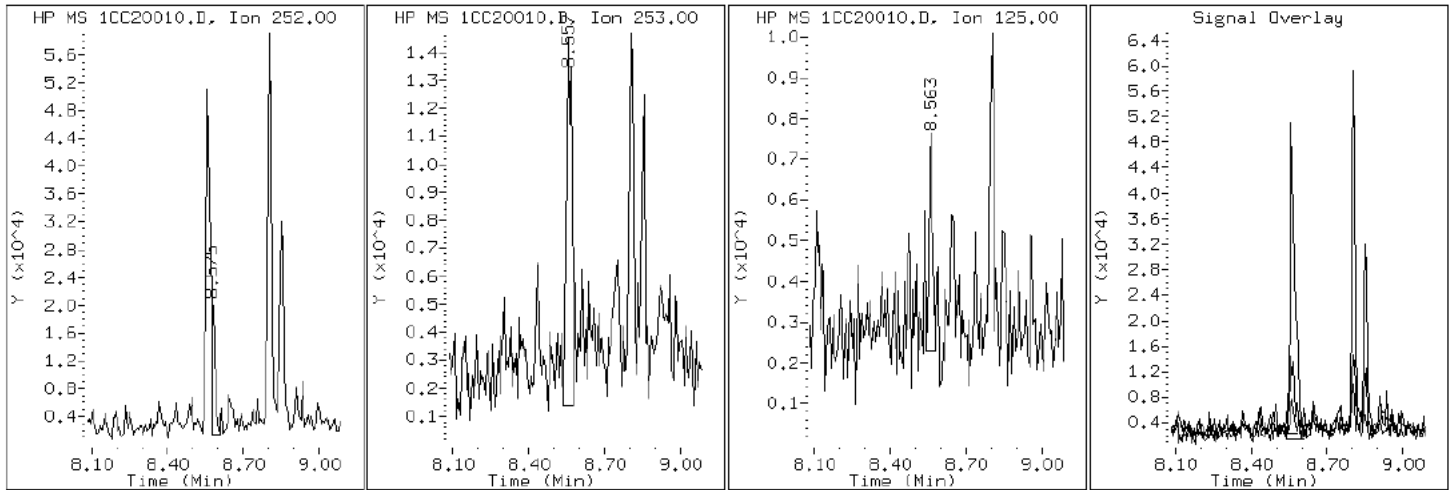
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

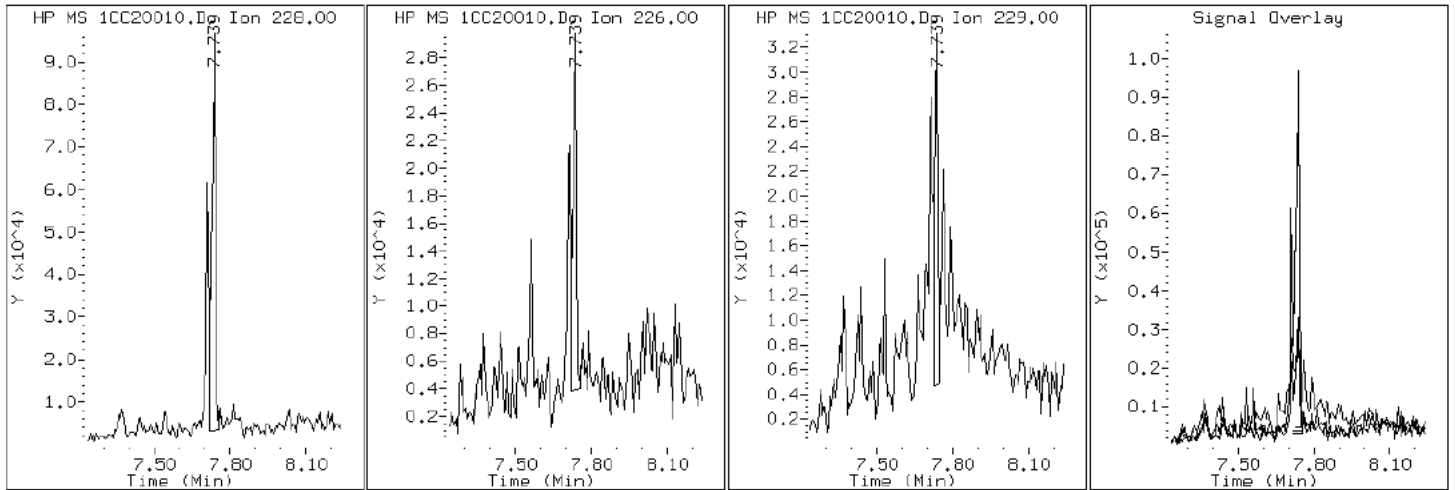
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

19 Chrysene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

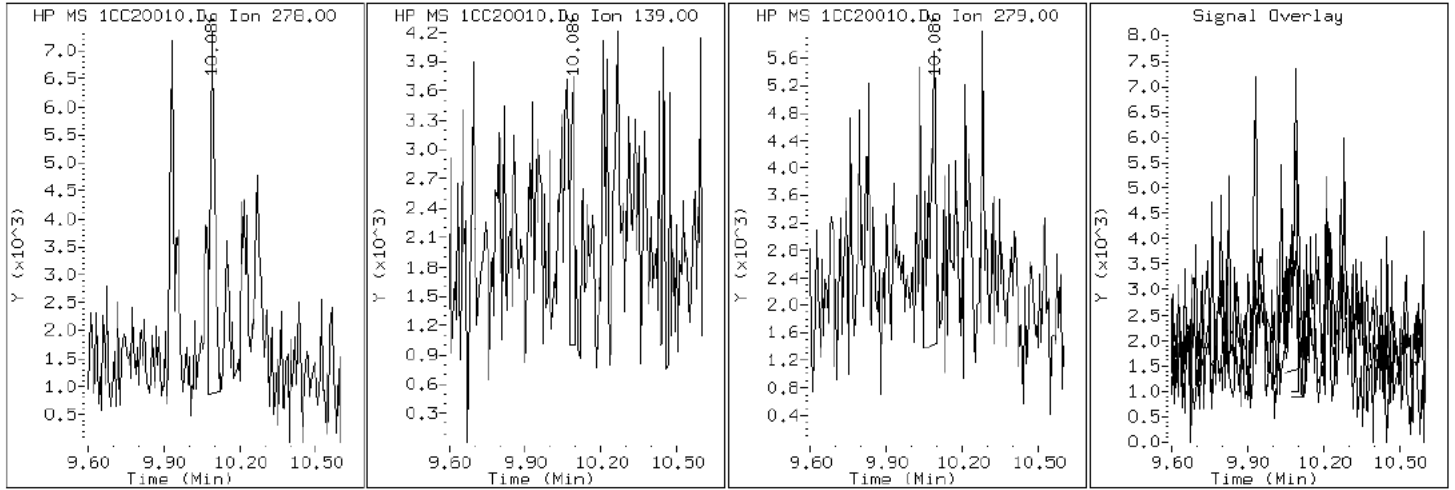
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

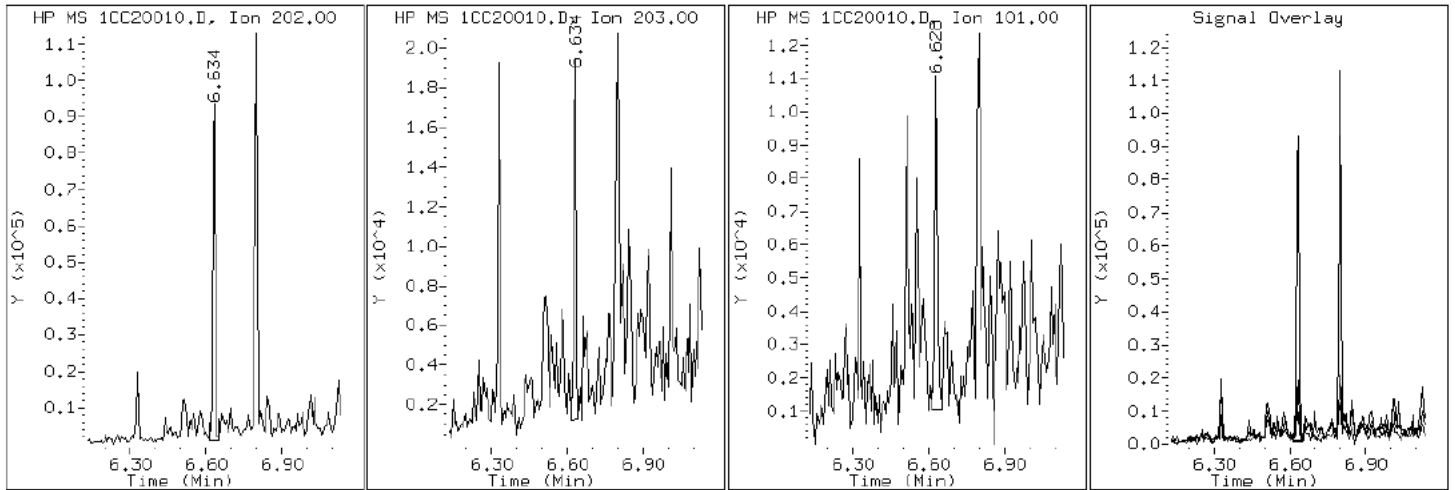
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

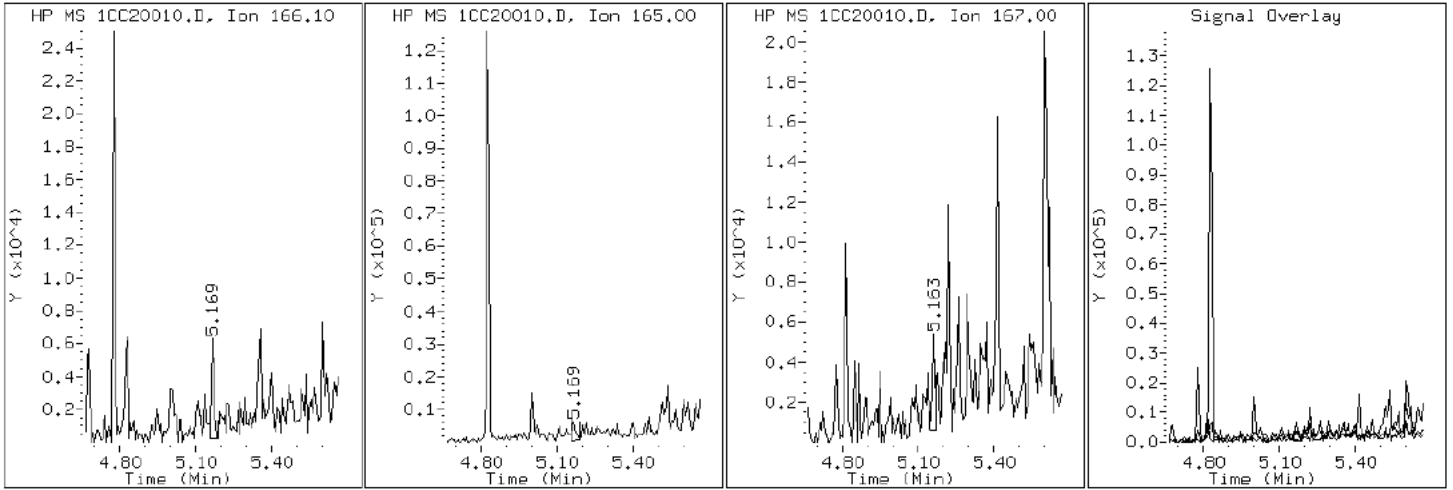
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

9 Fluorene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

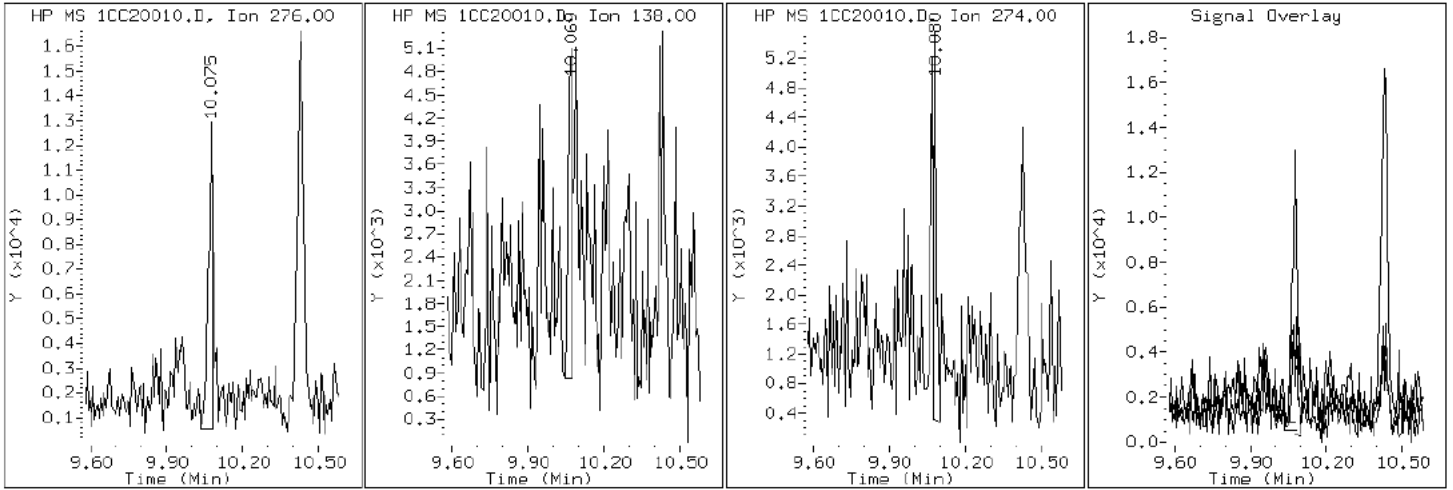
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

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



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

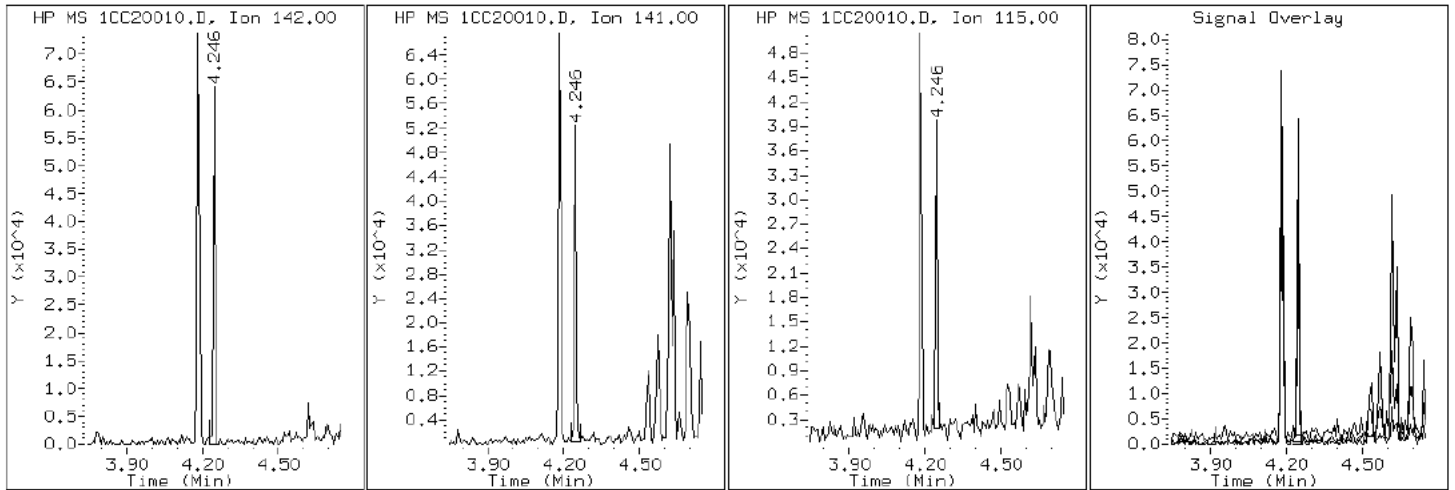
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

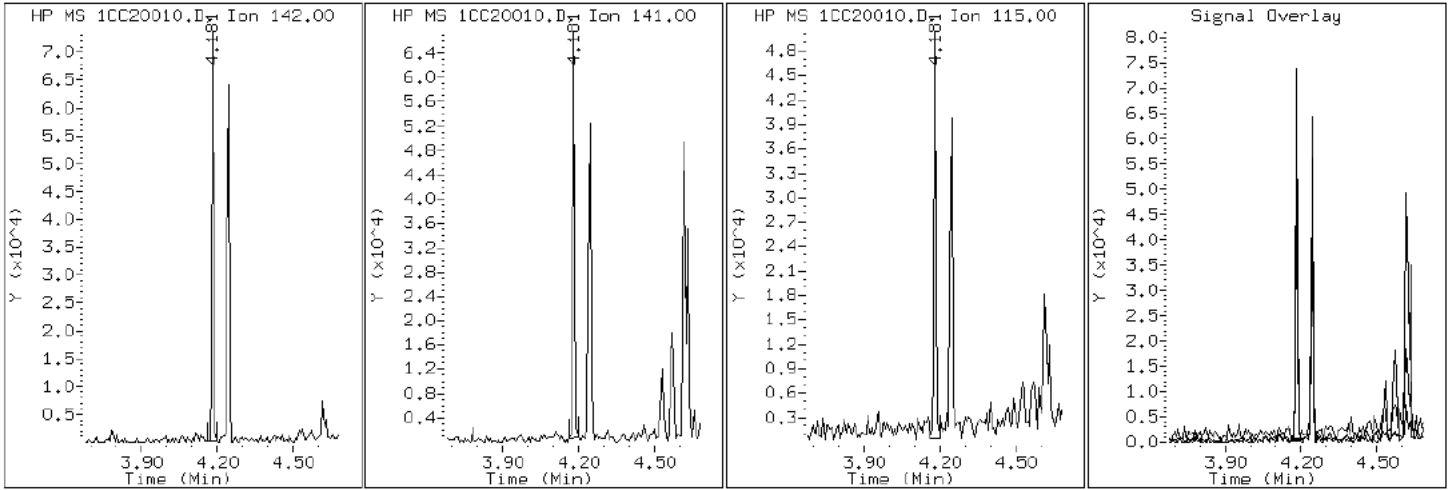
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

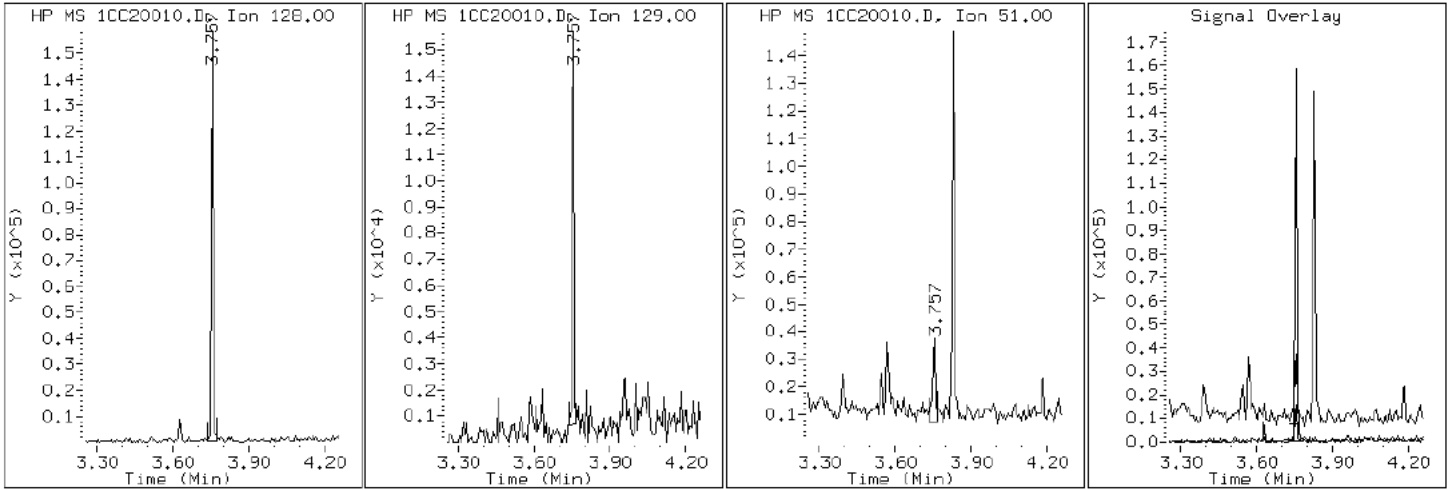
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

2 Naphthalene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

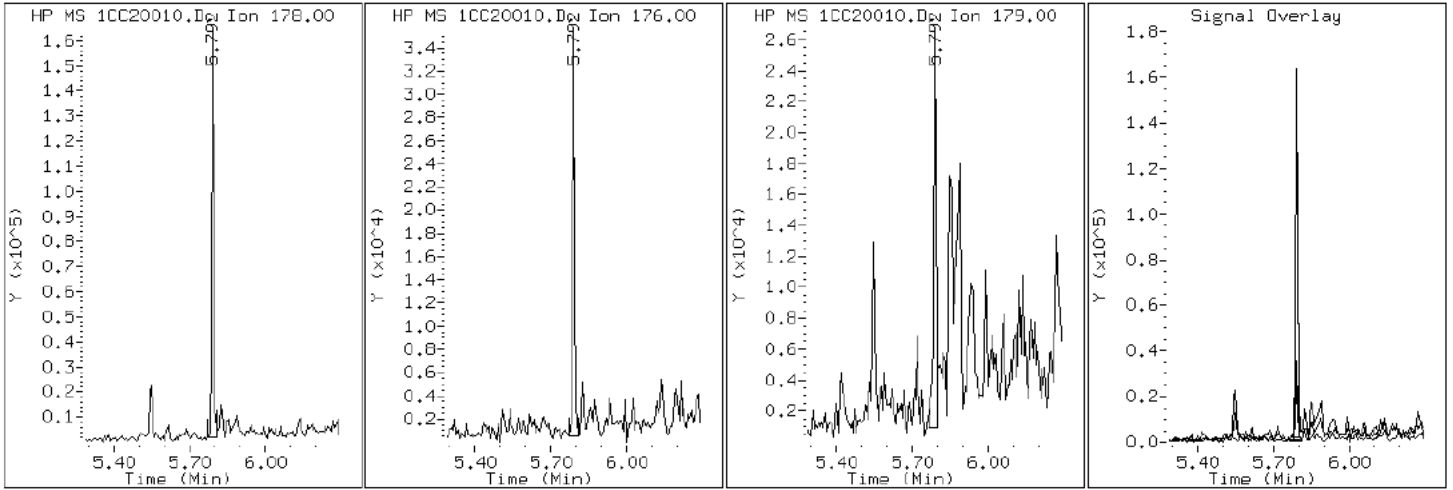
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20010.D

Date: 20-MAR-2013 12:46

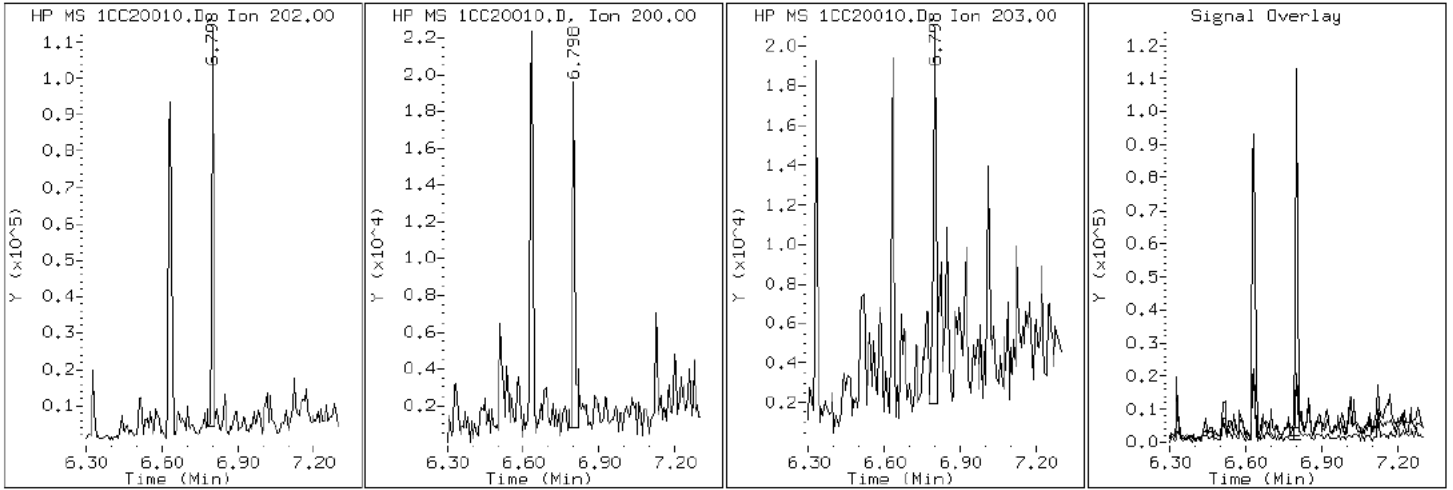
Client ID: CV0827B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-5-a

Operator: SCC

16 Pyrene

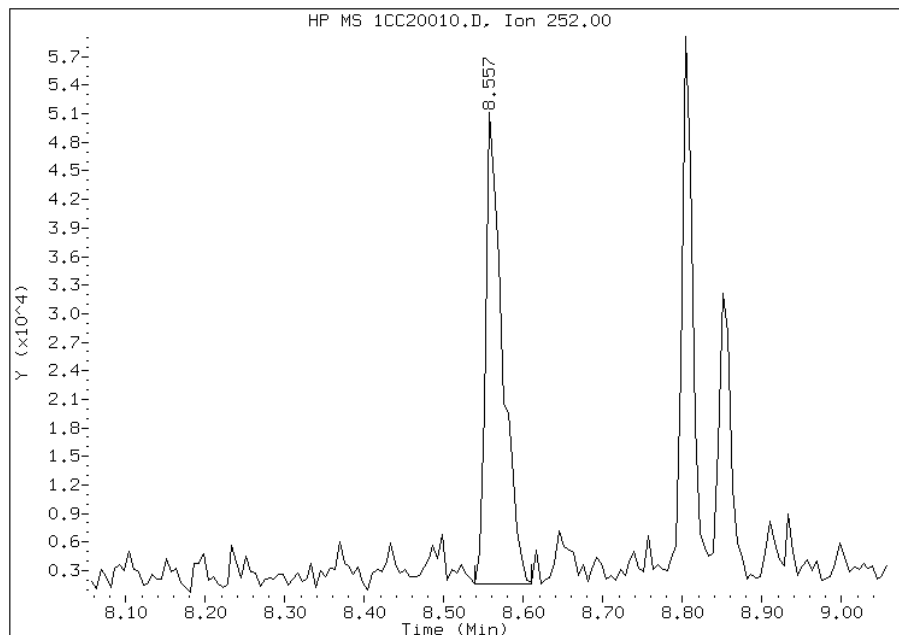


Manual Integration Report

Data File: 1CC20010.D
Inj. Date and Time: 20-MAR-2013 12:46
Instrument ID: BSMC5973.i
Client ID: CV0827B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

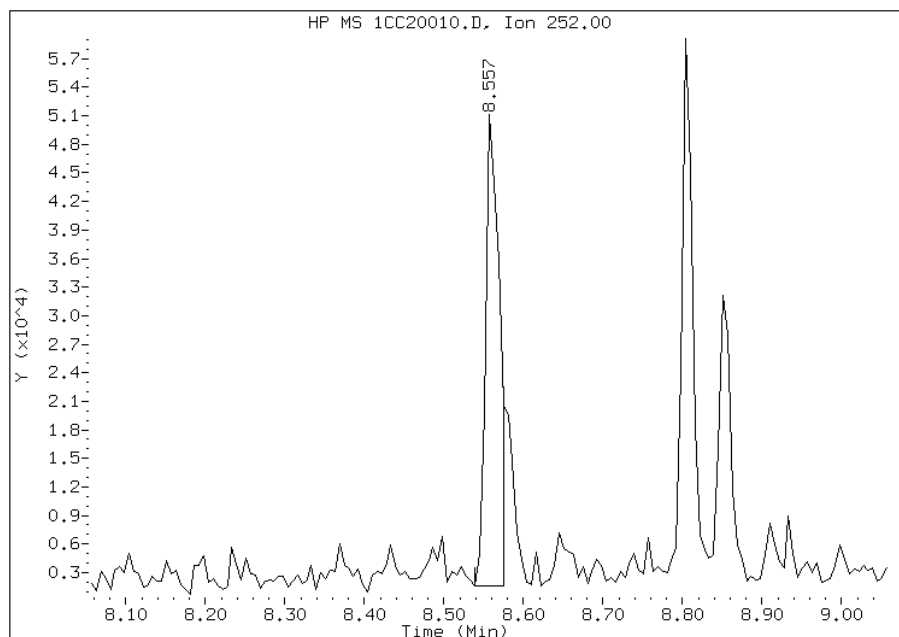
Processing Integration Results

RT: 8.56
Response: 72927
Amount: 2
Conc: 776



Manual Integration Results

RT: 8.56
Response: 58810
Amount: 2
Conc: 626



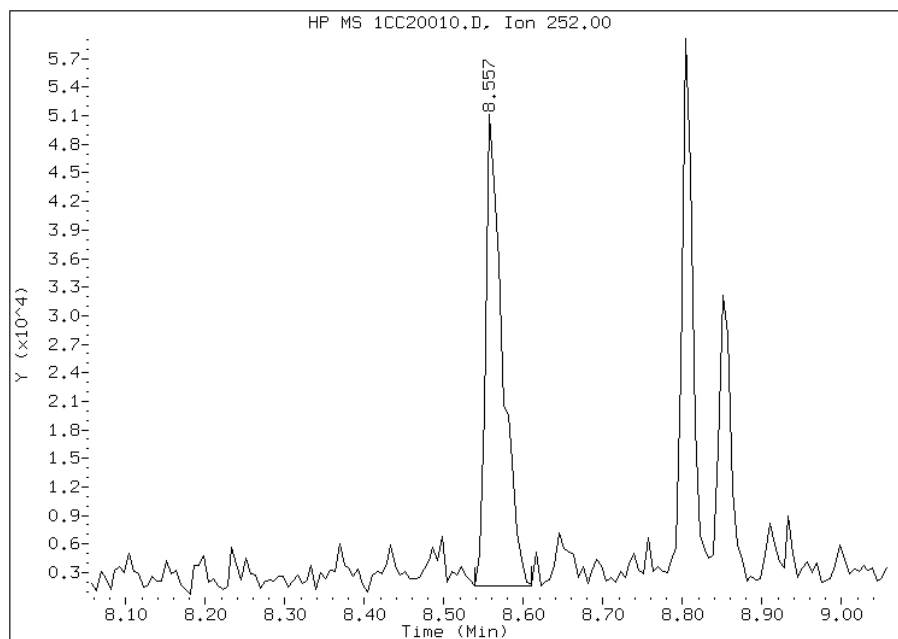
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20010.D
Inj. Date and Time: 20-MAR-2013 12:46
Instrument ID: BSMC5973.i
Client ID: CV0827B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

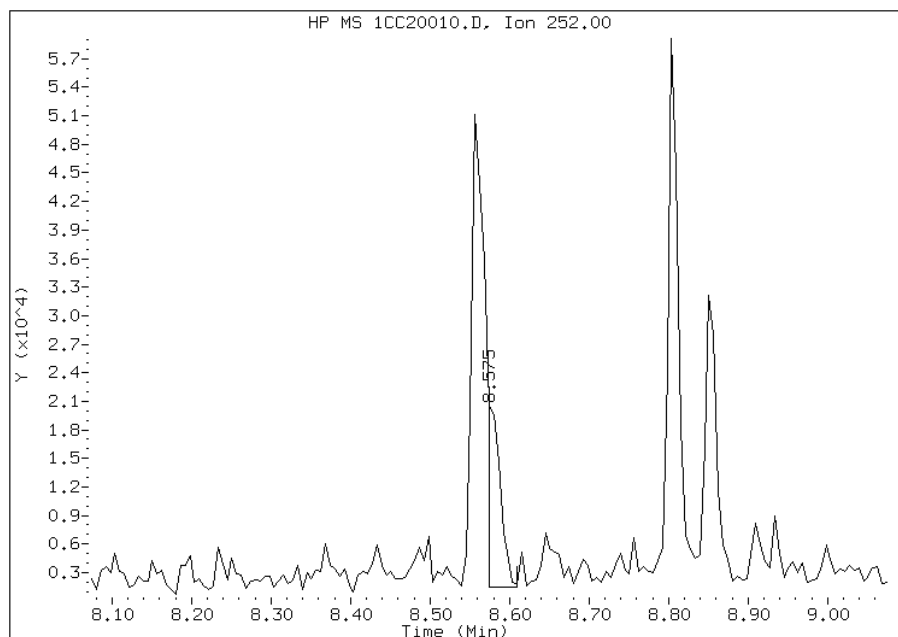
Processing Integration Results

RT: 8.56
Response: 72927
Amount: 2
Conc: 757



Manual Integration Results

RT: 8.57
Response: 21249
Amount: 1
Conc: 221



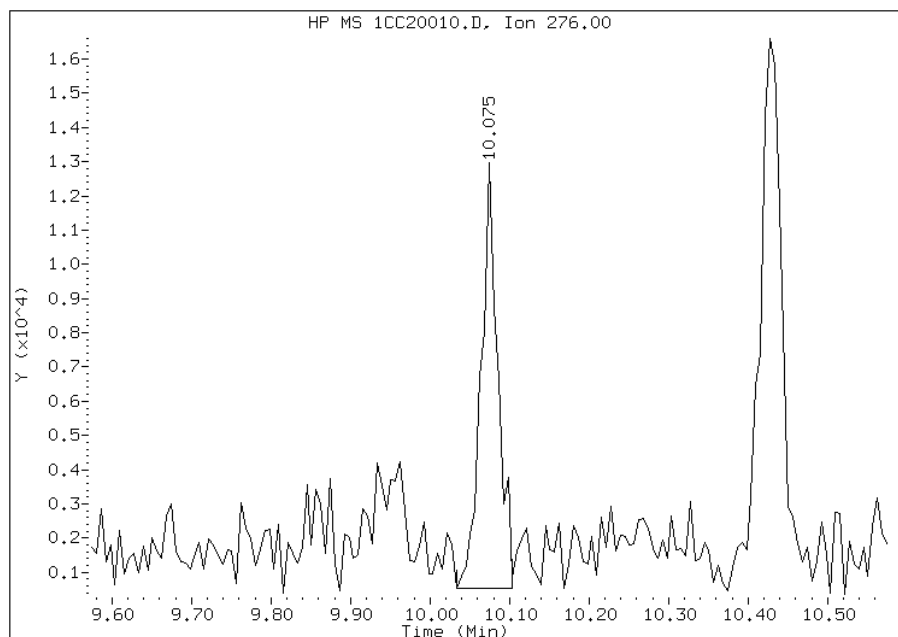
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20010.D
Inj. Date and Time: 20-MAR-2013 12:46
Instrument ID: BSMC5973.i
Client ID: CV0827B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

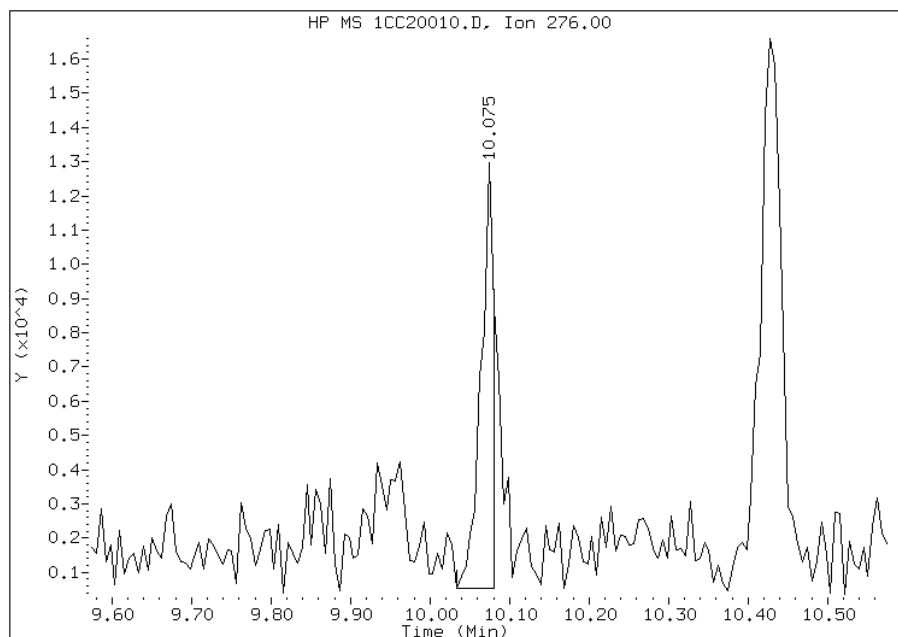
Processing Integration Results

RT: 10.07
Response: 18082
Amount: 1
Conc: 211



Manual Integration Results

RT: 10.07
Response: 13811
Amount: 0
Conc: 161



Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0827C-CS Lab Sample ID: 680-88176-6
 Matrix: Solid Lab File ID: 1CC20013.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 09:40
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 14.94 (g) Date Analyzed: 03/20/2013 13:41
 Con. Extract Vol.: 1 (mL) Dilution Factor: 4
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 30.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	580	U	580	120
208-96-8	Acenaphthylene	39	J	230	29
120-12-7	Anthracene	56		49	24
56-55-3	Benzo[a]anthracene	220		47	23
50-32-8	Benzo[a]pyrene	230		60	30
205-99-2	Benzo[b]fluoranthene	450		71	35
191-24-2	Benzo[g,h,i]perylene	230		120	26
207-08-9	Benzo[k]fluoranthene	130		47	21
218-01-9	Chrysene	470		52	26
53-70-3	Dibenz(a,h)anthracene	95	J	120	24
206-44-0	Fluoranthene	340		120	23
86-73-7	Fluorene	28	J	120	24
193-39-5	Indeno[1,2,3-cd]pyrene	180		120	41
90-12-0	1-Methylnaphthalene	390		230	26
91-57-6	2-Methylnaphthalene	290		230	41
91-20-3	Naphthalene	290		230	26
85-01-8	Phenanthrene	450		47	23
129-00-0	Pyrene	360		120	22

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\1C032013.b\1CC20013.D
 Lab Smp Id: 680-88176-A-6-A Client Smp ID: CV0827C-CS
 Inj Date : 20-MAR-2013 13:41
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-6-a
 Misc Info : 680-88176-A-6-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 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	14.940	Weight Extracted
M	30.937	% 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		3.745	3.745	(1.000)	906461	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	721611	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1383130	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	33972	1.62679	630.6566	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1546914	40.0000		
* 23 Perylene-d12	264		8.909	8.909	(1.000)	1500454	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	17371	0.73610	285.3653(Q)	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	11852	0.75292	291.8863	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	14396	1.00415	389.2778	
5 Acenaphthylene	152		4.739	4.745	(0.982)	2936	0.10092	39.1227(Q)	
9 Fluorene	166		5.169	5.169	(1.071)	1680	0.07346	28.4787(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	46811	1.17045	453.7491	
12 Anthracene	178		5.827	5.827	(1.008)	5614	0.14353	55.6421	
13 Carbazole	167		5.933	5.933	(1.026)	6329	0.18203	70.5666(Q)	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)	
15 Fluoranthene	202	6.633	6.633	(1.148)	38222	0.87268	338.3134	
16 Pyrene	202	6.798	6.798	(0.880)	38083	0.91609	355.1424	
17 Benzo(a)anthracene	228	7.710	7.715	(0.998)	25298	0.56662	219.6632	
19 Chrysene	228	7.739	7.739	(1.002)	54240	1.21395	470.6139	
20 Benzo(b)fluoranthene	252	8.557	8.562	(0.960)	45034	1.14846	445.2249(M)	
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.963)	12996	0.32308	125.2469(QMH)	
22 Benzo(a)pyrene	252	8.851	8.857	(0.993)	22528	0.59147	229.2956	
24 Indeno(1,2,3-cd)pyrene	276	10.074	10.080	(1.131)	17068	0.47636	184.6702(M)	
25 Dibenzo(a,h)anthracene	278	10.092	10.098	(1.133)	8604	0.24550	95.1729	
26 Benzo(g,h,i)perylene	276	10.427	10.433	(1.170)	22064	0.58867	228.2085	

QC Flag Legend

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

Data File: 1CC20013.D

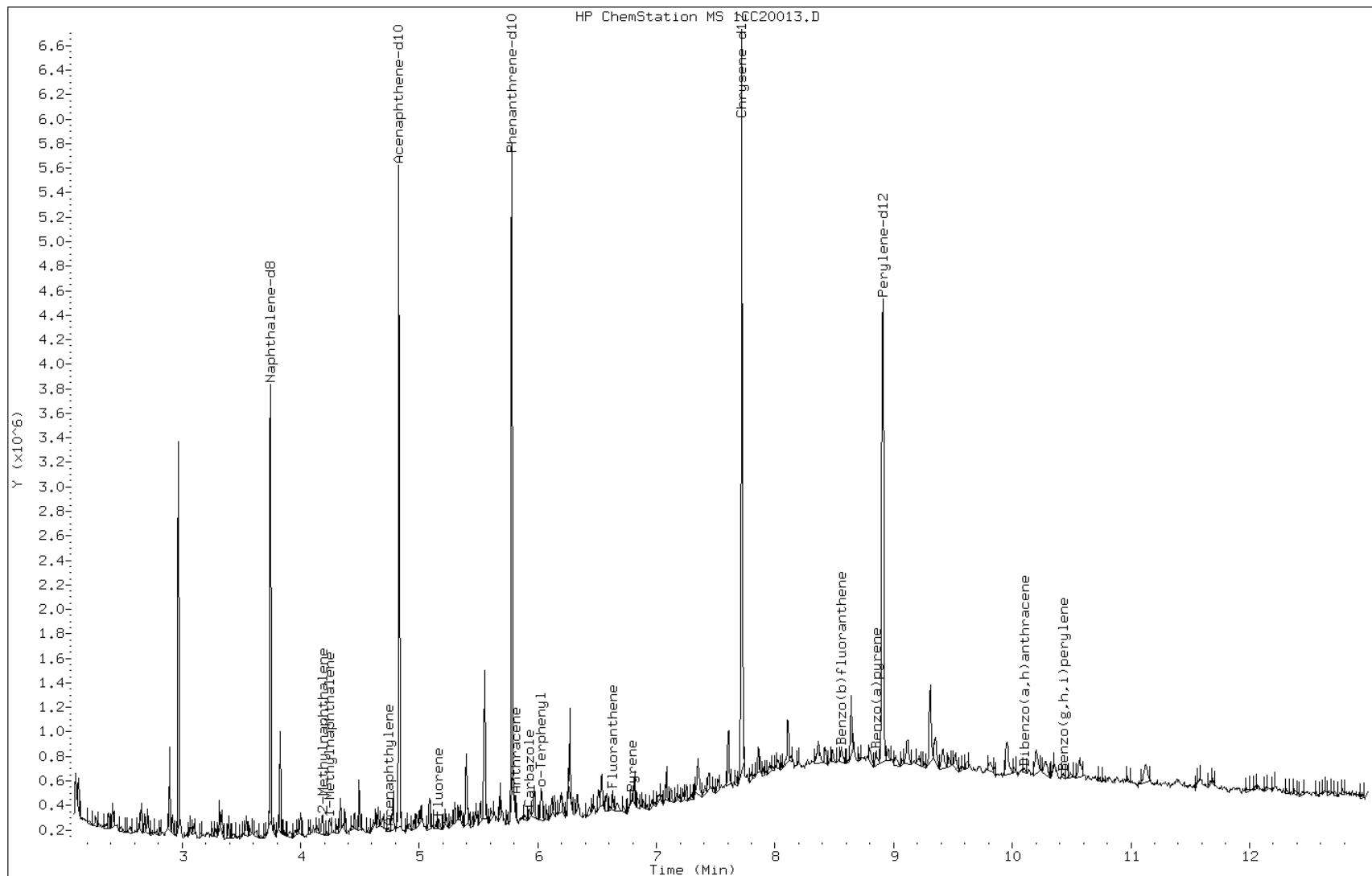
Date: 20-MAR-2013 13:41

Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

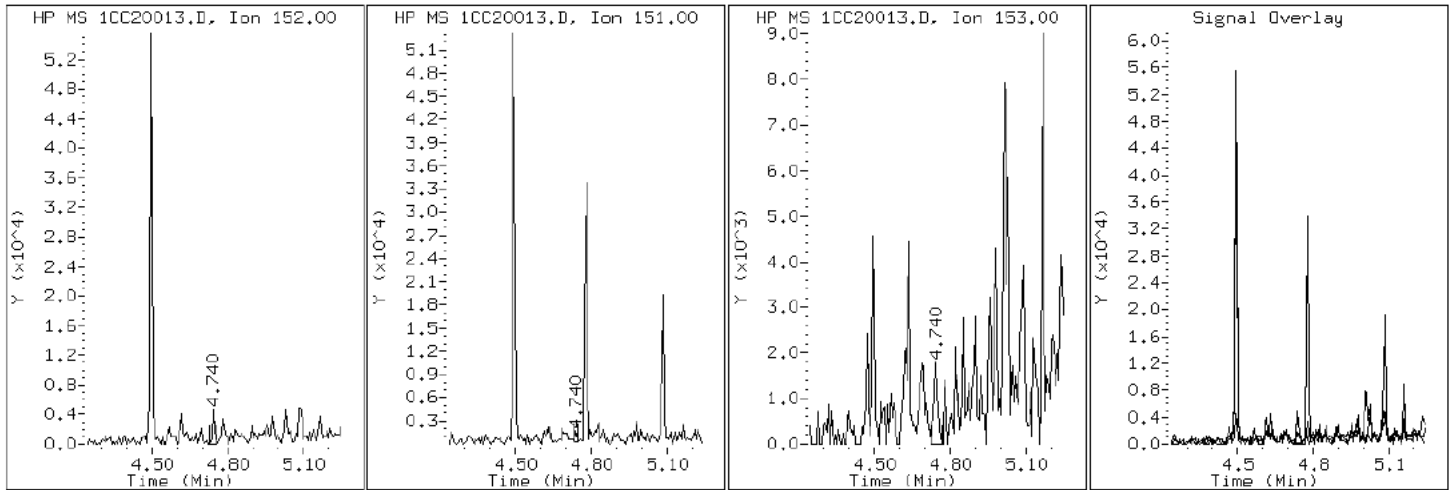
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

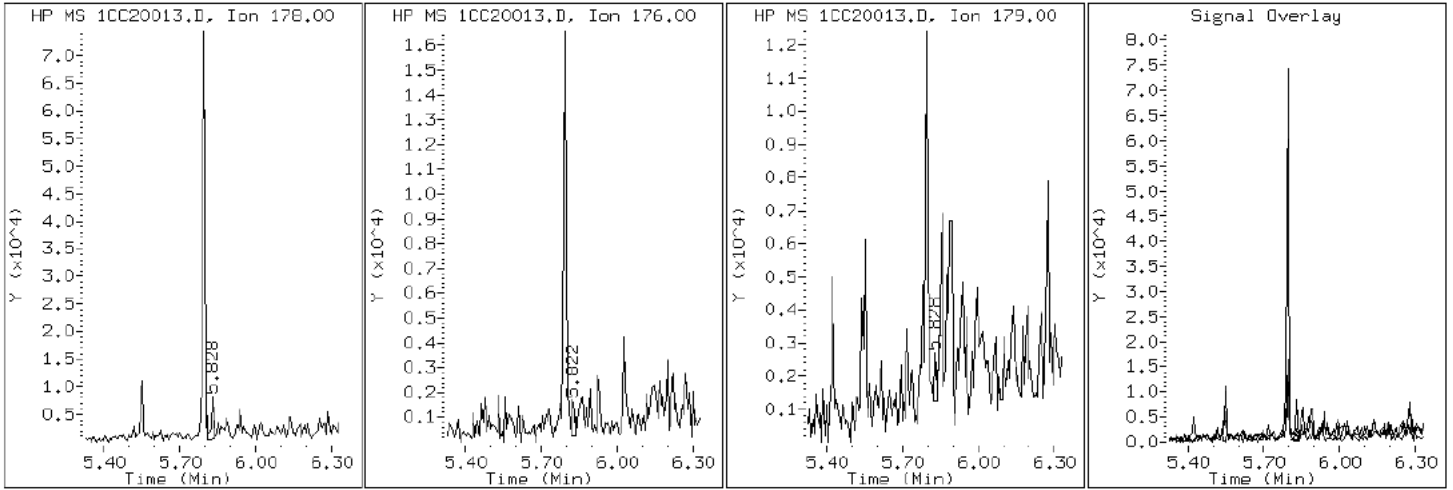
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

12 Anthracene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

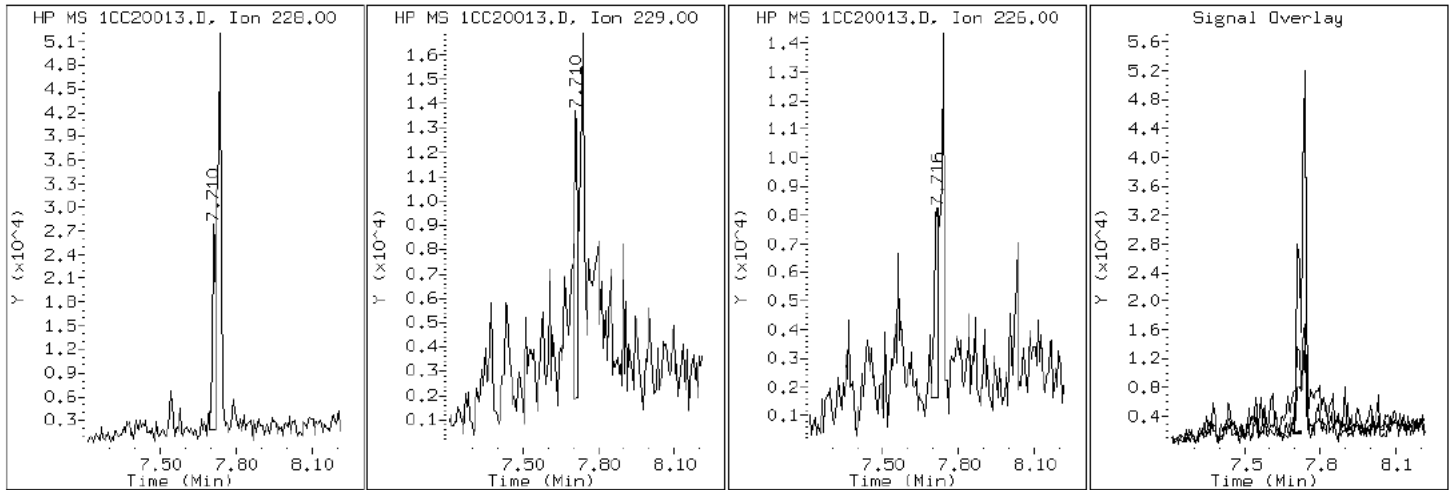
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

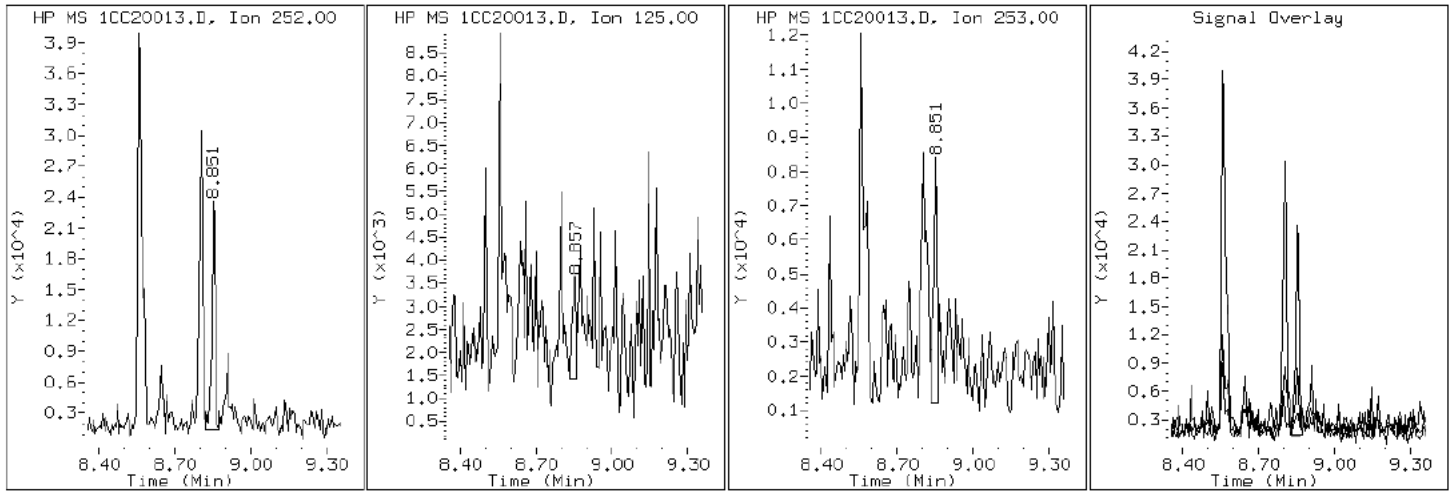
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

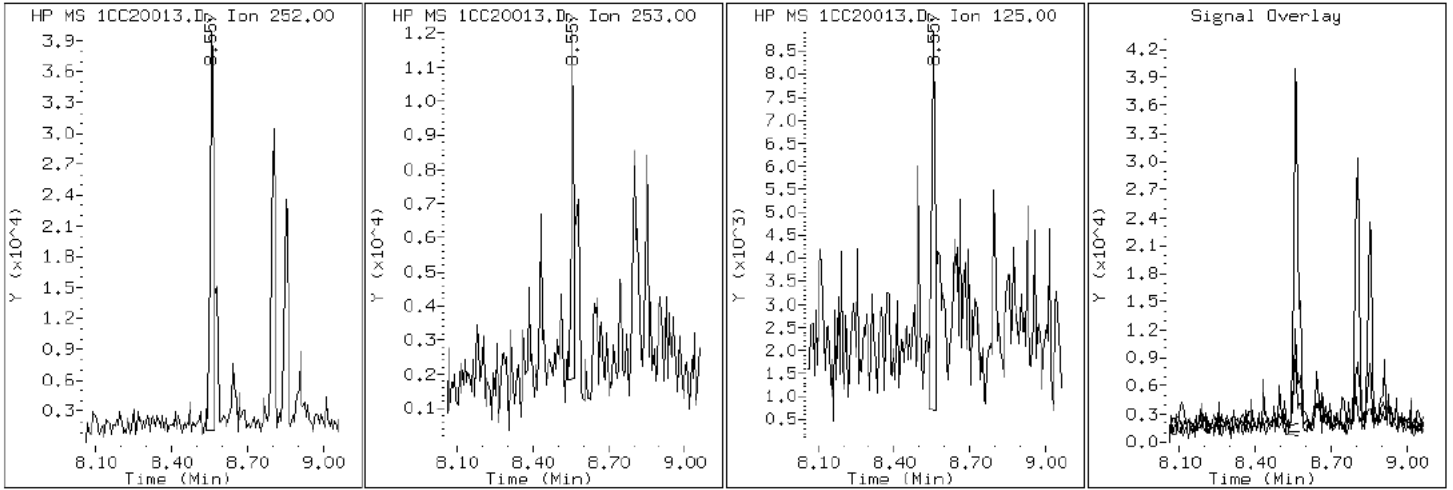
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

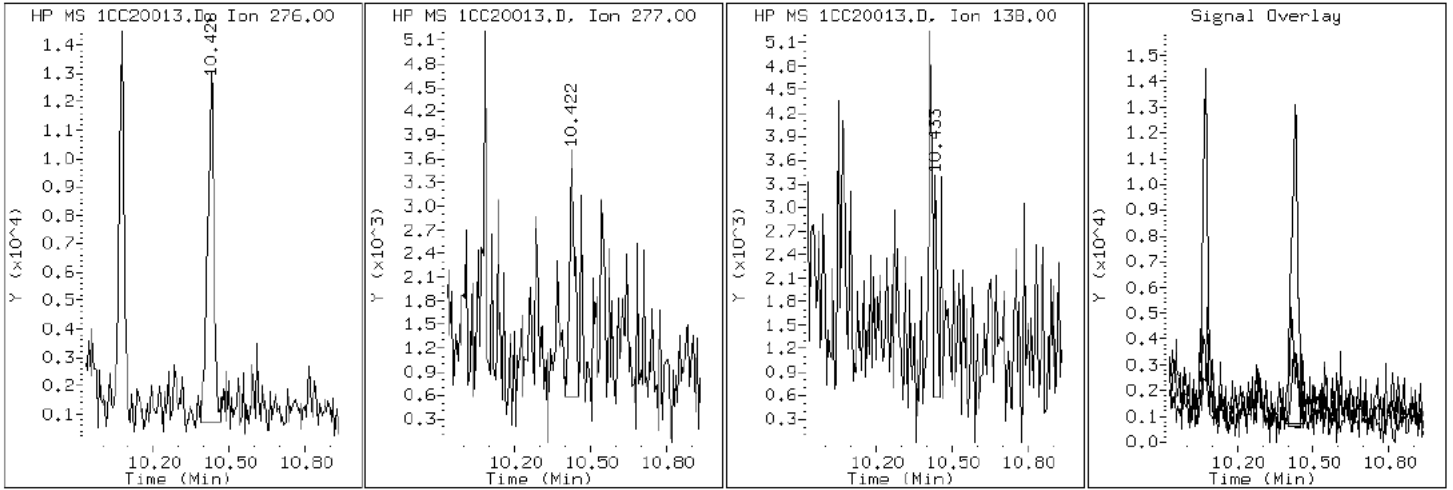
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

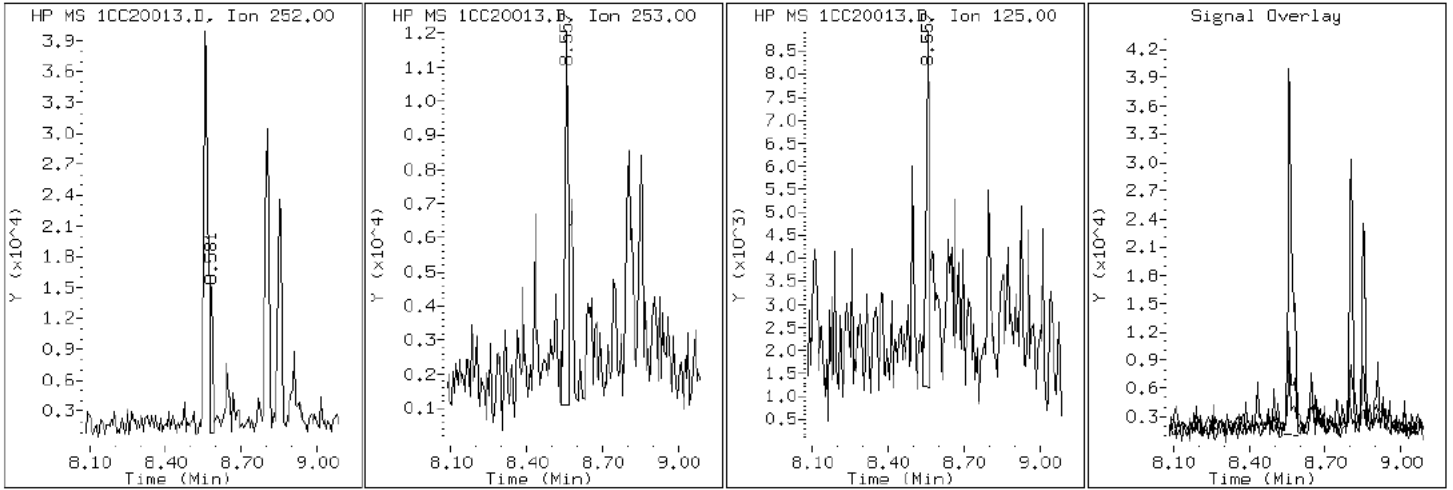
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

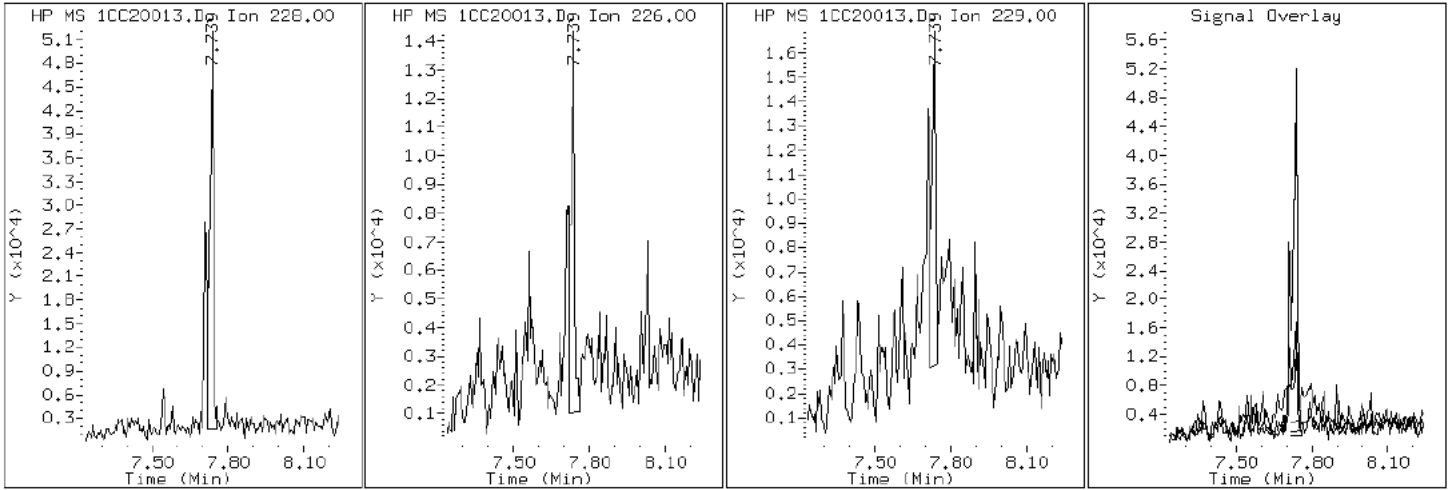
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

19 Chrysene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

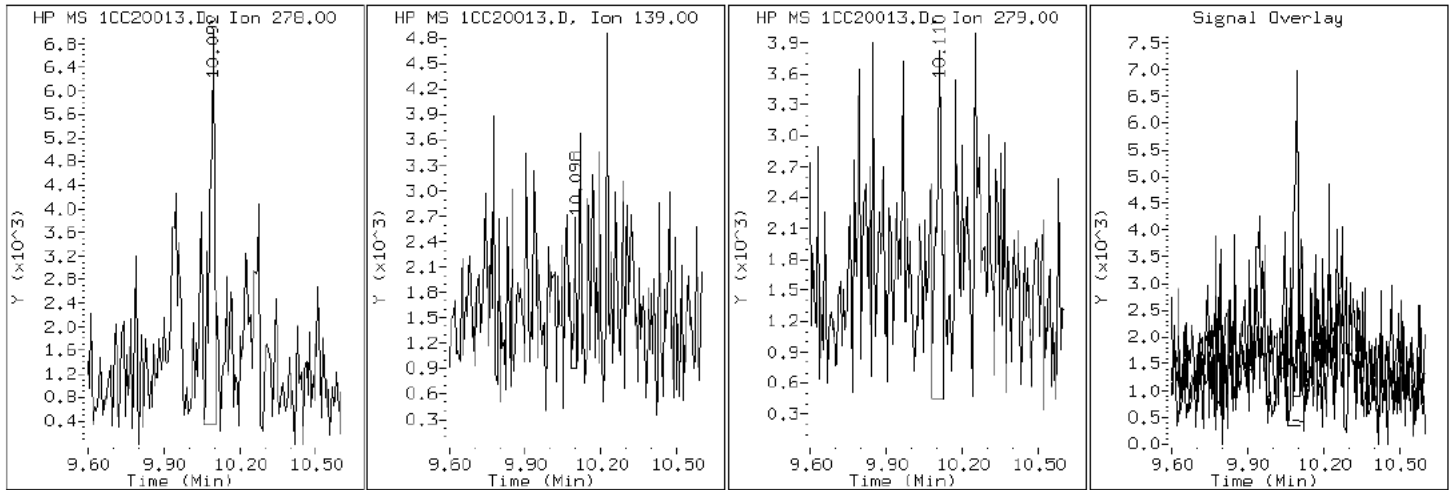
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

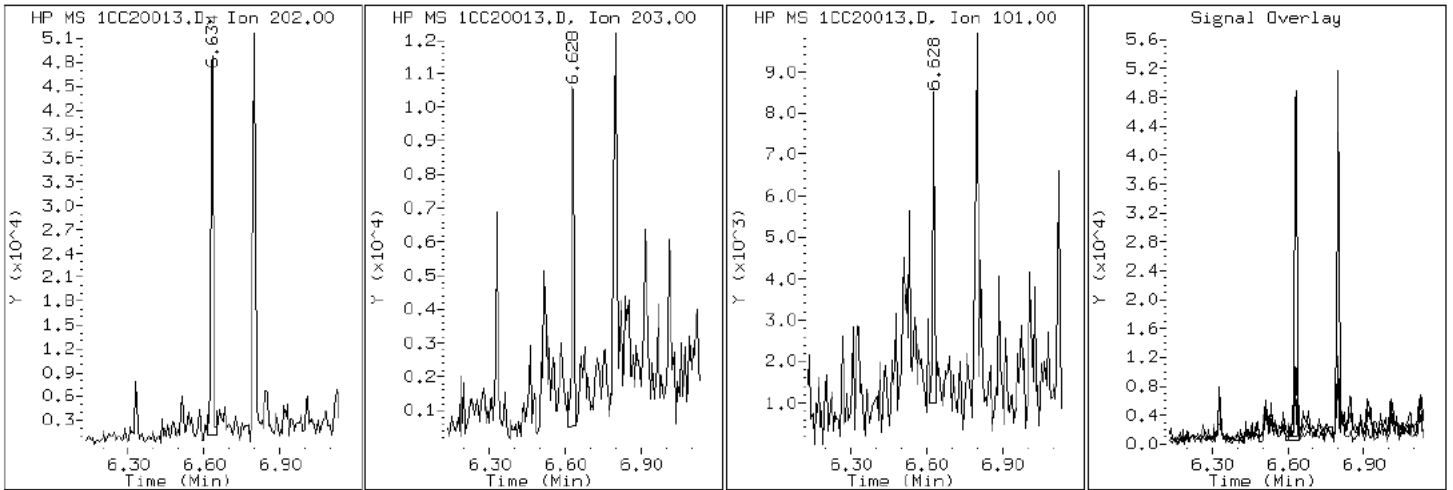
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

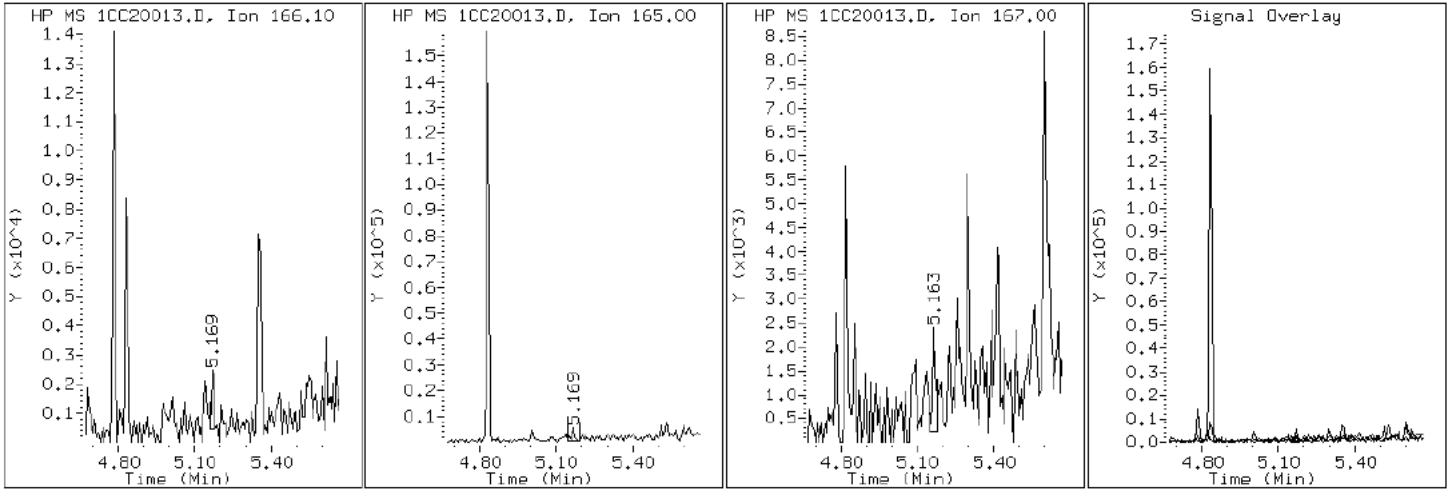
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

9 Fluorene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

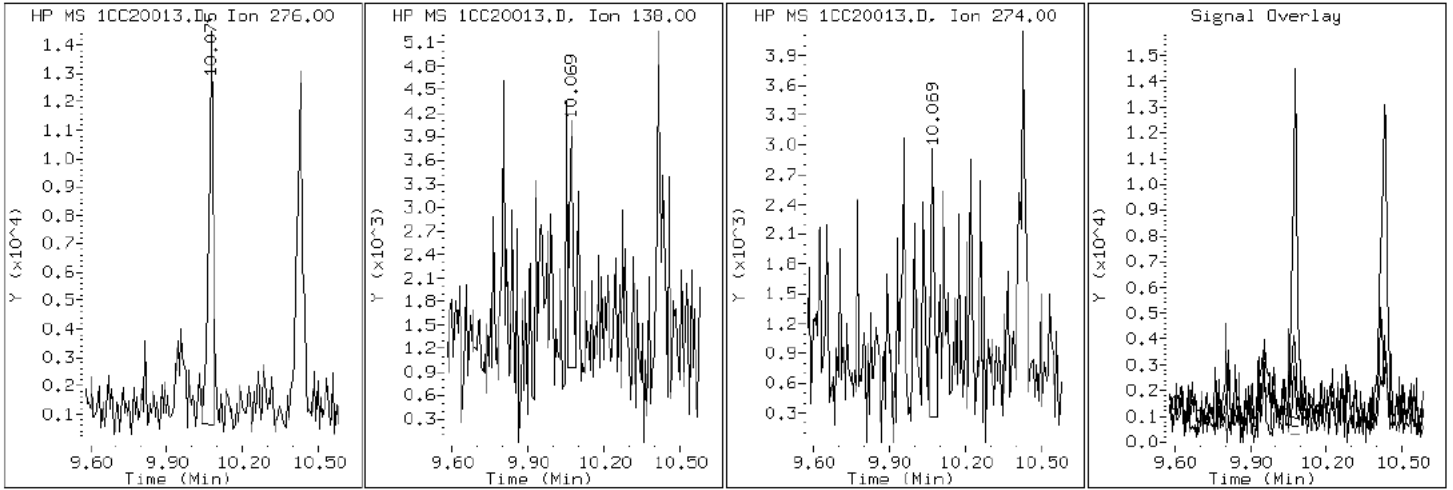
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

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



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

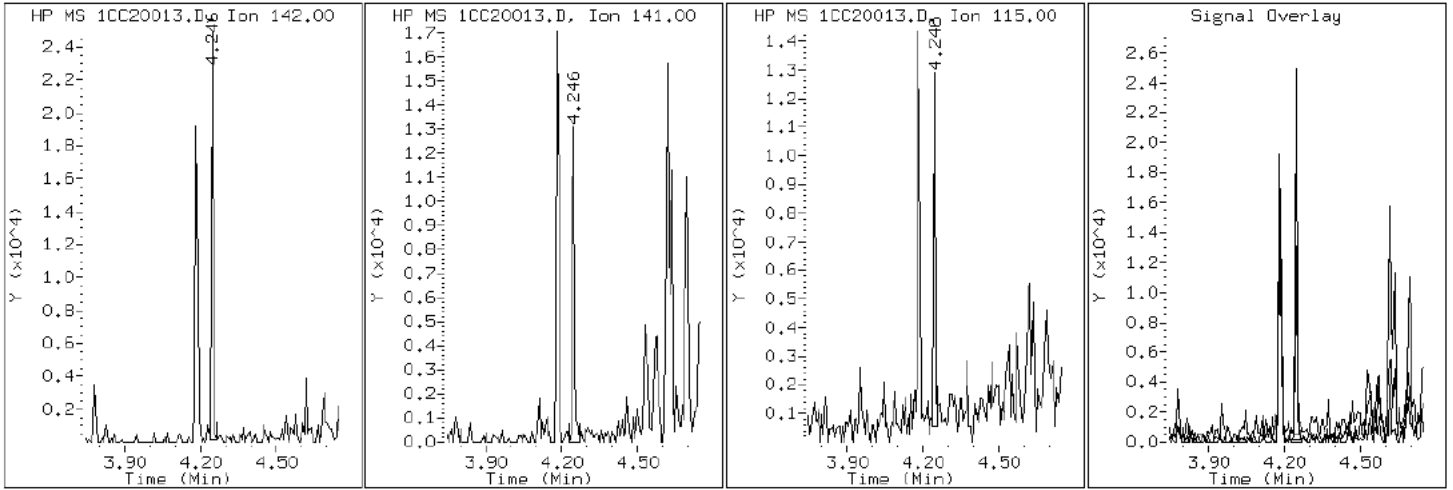
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

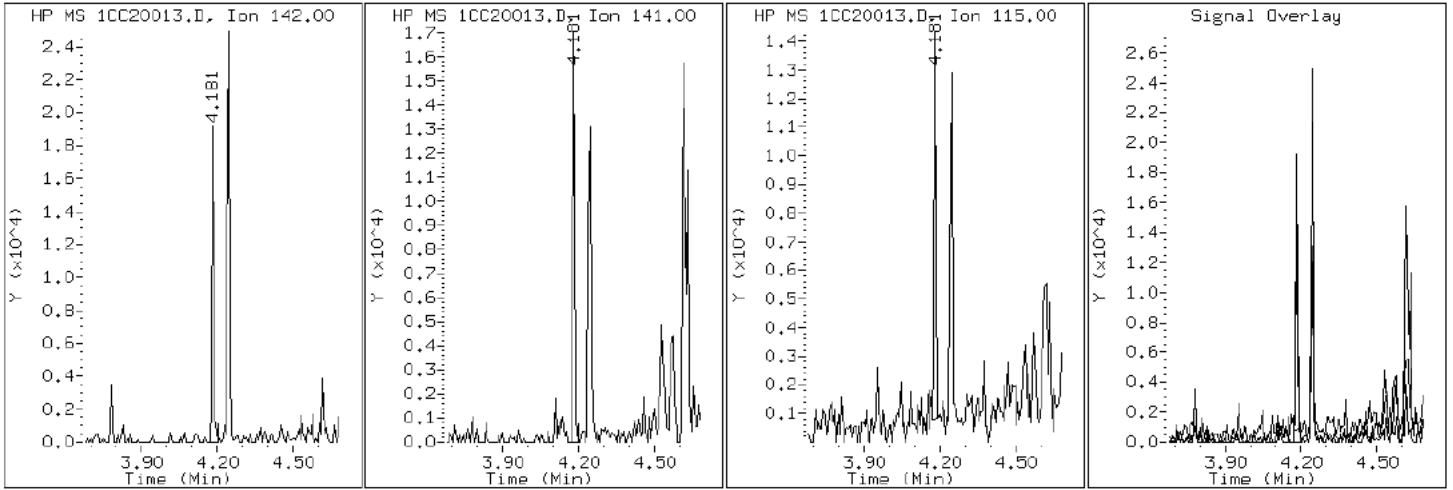
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

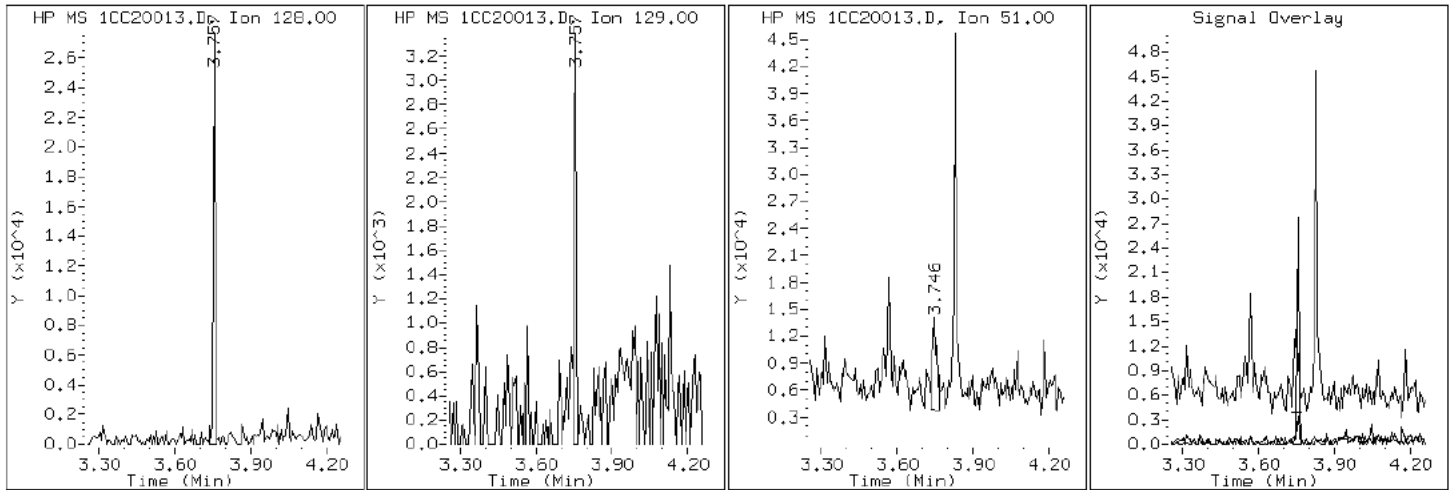
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

2 Naphthalene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

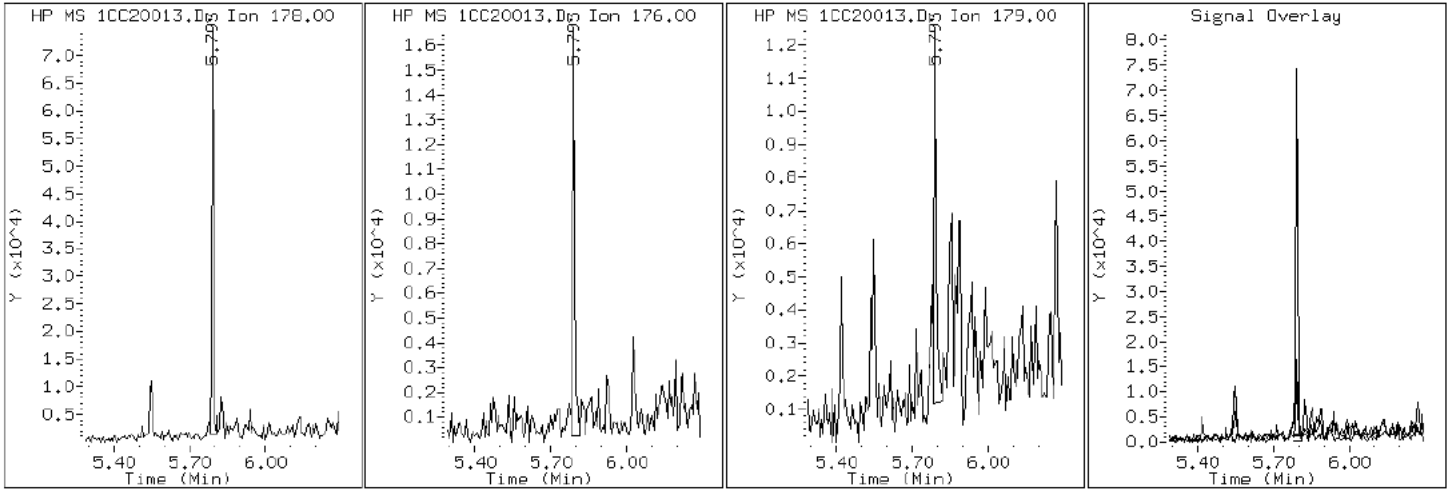
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20013.D

Date: 20-MAR-2013 13:41

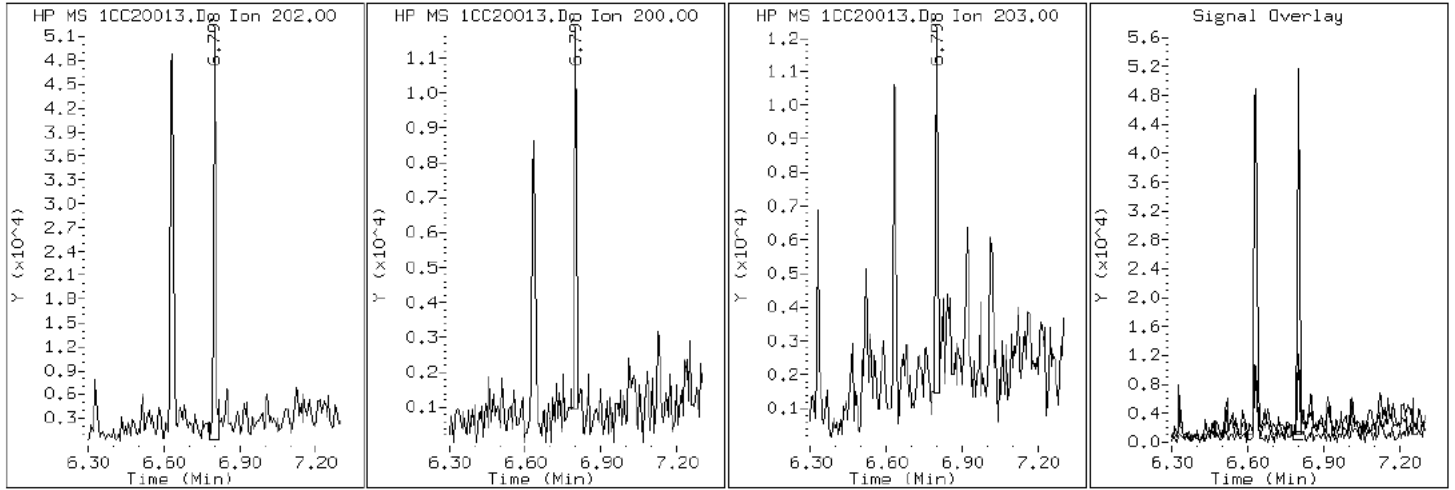
Client ID: CV0827C-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-6-a

Operator: SCC

16 Pyrene

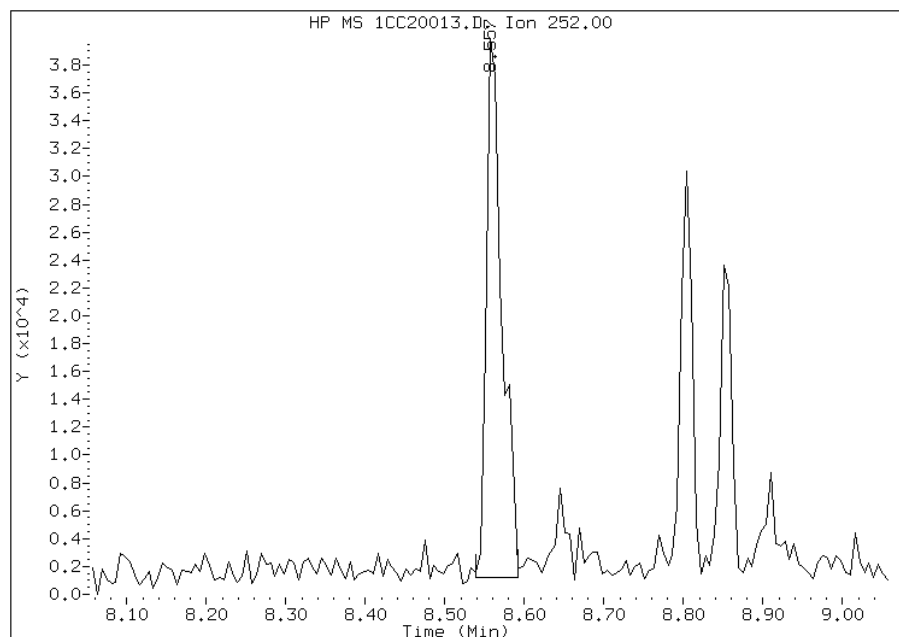


Manual Integration Report

Data File: 1CC20013.D
Inj. Date and Time: 20-MAR-2013 13:41
Instrument ID: BSMC5973.i
Client ID: CV0827C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

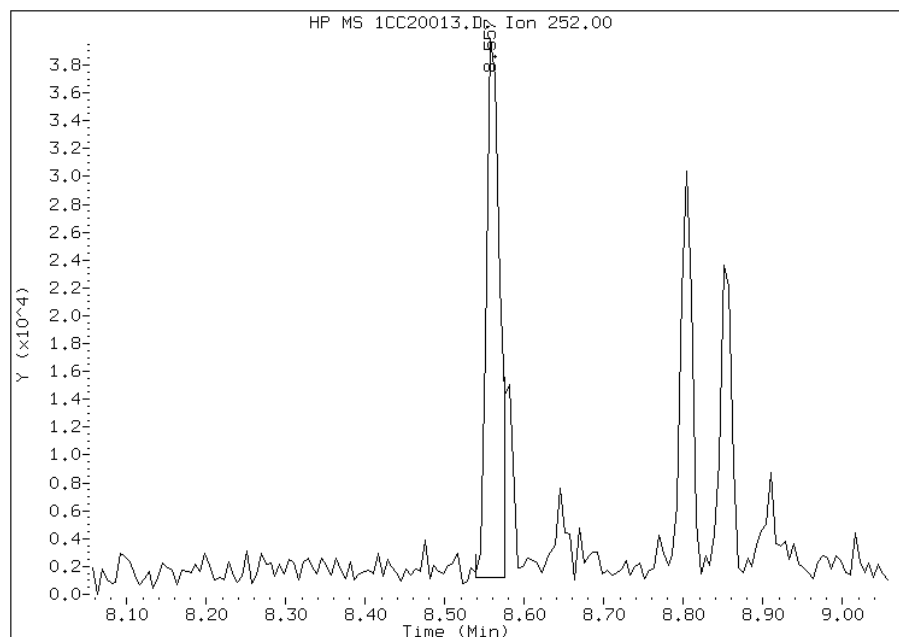
Processing Integration Results

RT: 8.56
Response: 53017
Amount: 1
Conc: 524



Manual Integration Results

RT: 8.56
Response: 45034
Amount: 1
Conc: 445



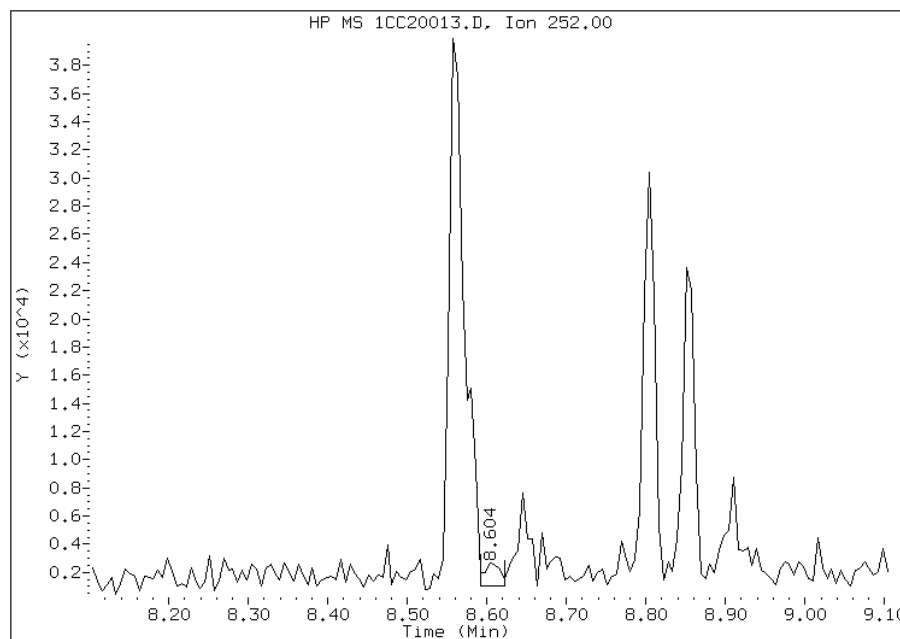
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 17:40
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20013.D
Inj. Date and Time: 20-MAR-2013 13:41
Instrument ID: BSMC5973.i
Client ID: CV0827C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

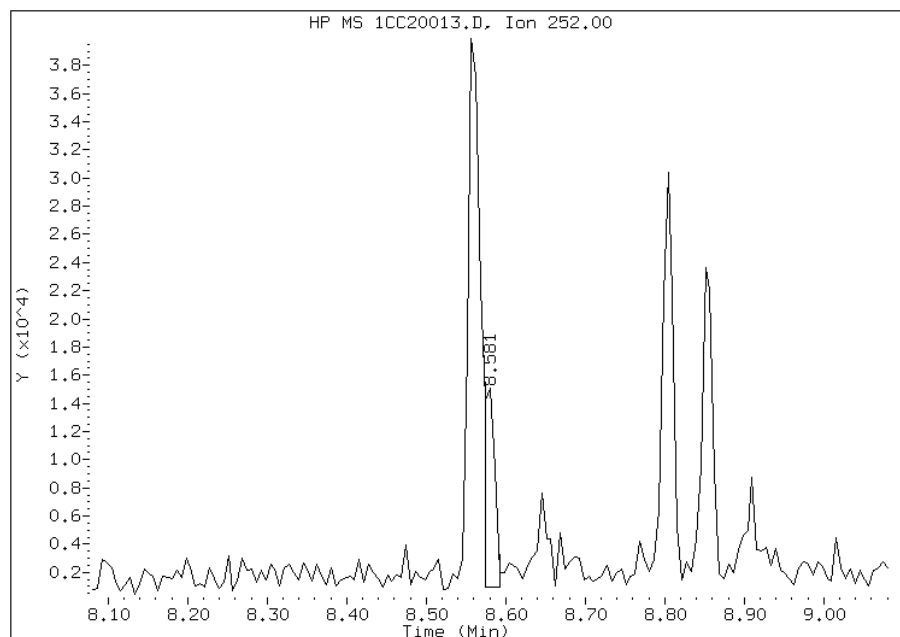
Processing Integration Results

RT: 8.60
Response: 2283
Amount: 0
Conc: 22



Manual Integration Results

RT: 8.58
Response: 12996
Amount: 0
Conc: 125



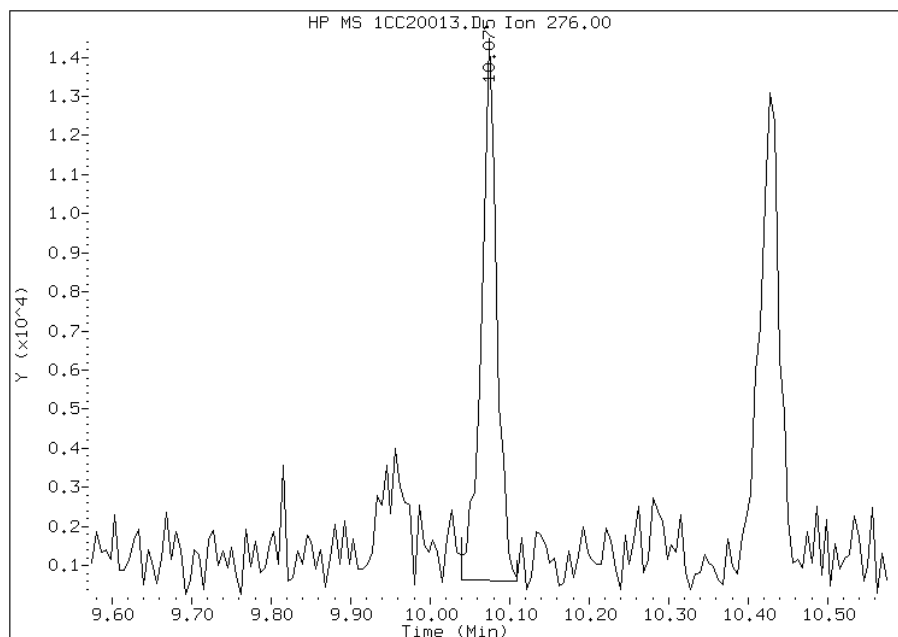
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 17:40
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20013.D
Inj. Date and Time: 20-MAR-2013 13:41
Instrument ID: BSMC5973.i
Client ID: CV0827C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

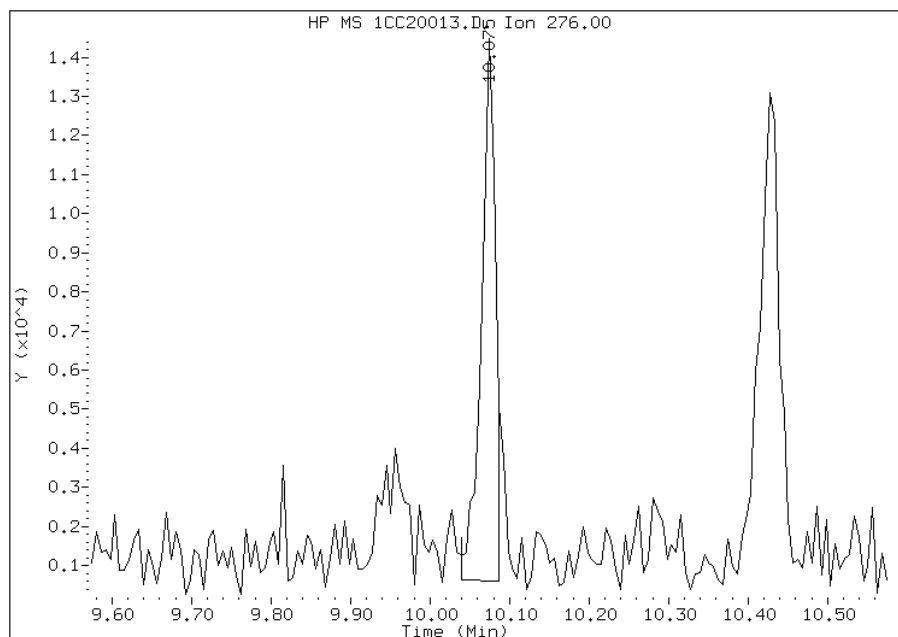
Processing Integration Results

RT: 10.07
Response: 18579
Amount: 1
Conc: 201



Manual Integration Results

RT: 10.07
Response: 17068
Amount: 0
Conc: 185



Manually Integrated By: cantins
Modification Date: 20-Mar-2013 17:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0853A-CS Lab Sample ID: 680-88176-7
 Matrix: Solid Lab File ID: 1CC20014.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 10:55
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.27(g) Date Analyzed: 03/20/2013 14:00
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 27.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	16	J	54	6.8
120-12-7	Anthracene	48		11	5.7
56-55-3	Benzo[a]anthracene	580		11	5.3
50-32-8	Benzo[a]pyrene	890		14	7.1
205-99-2	Benzo[b]fluoranthene	1700		17	8.3
191-24-2	Benzo[g,h,i]perylene	980		27	6.0
207-08-9	Benzo[k]fluoranthene	640		11	4.9
218-01-9	Chrysene	870		12	6.1
53-70-3	Dibenz(a,h)anthracene	280		27	5.6
206-44-0	Fluoranthene	710		27	5.4
86-73-7	Fluorene	30		27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	780		27	9.6
90-12-0	1-Methylnaphthalene	160		54	6.0
91-57-6	2-Methylnaphthalene	160		54	9.6
91-20-3	Naphthalene	120		54	6.0
85-01-8	Phenanthrene	420		11	5.3
129-00-0	Pyrene	670		27	5.0

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

TestAmerica Laboratories

Semivolatle 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20014.D
 Lab Smp Id: 680-88176-A-7-A Client Smp ID: CV0853A-CS
 Inj Date : 20-MAR-2013 14:00
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-7-a
 Misc Info : 680-88176-A-7-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.270	Weight Extracted
M	27.619	% 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		3.739	3.745	(1.000)	928243	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	747727	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1312096	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	125490	6.33455	573.1288	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1458533	40.0000		
* 23 Perylene-d12	264		8.910	8.909	(1.000)	1395468	40.0000		
2 Naphthalene	128		3.757	3.757	(1.005)	33151	1.37182	124.1178	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	28487	1.76723	159.8932	
4 1-Methylnaphthalene	142		4.245	4.245	(1.135)	25359	1.72733	156.2828	
5 Acenaphthylene	152		4.745	4.745	(0.983)	5222	0.17322	15.6727	
9 Fluorene	166		5.169	5.169	(1.071)	7851	0.33131	29.9757(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	177160	4.66948	422.4786	
12 Anthracene	178		5.827	5.827	(1.008)	19593	0.52804	47.7753	
13 Carbazole	167		5.933	5.933	(1.026)	12996	0.39401	35.6488(Q)	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
15 Fluoranthene	202		6.633	6.633	(1.148)	324844	7.81835	707.3786
16 Pyrene	202		6.798	6.798	(0.880)	288192	7.35259	665.2380
17 Benzo(a)anthracene	228		7.710	7.715	(0.998)	271126	6.44065	582.7283
19 Chrysene	228		7.739	7.739	(1.002)	406704	9.65408	873.4687
20 Benzo(b)fluoranthene	252		8.563	8.562	(0.961)	669180	18.3494	1660.1929(M)
21 Benzo(k)fluoranthene	252		8.574	8.586	(0.962)	266607	7.12638	644.7710(QM)
22 Benzo(a)pyrene	252		8.851	8.857	(0.993)	349313	9.86116	892.2049
24 Indeno(1,2,3-cd)pyrene	276		10.080	10.080	(1.131)	286447	8.59604	777.7414(M)
25 Dibenzo(a,h)anthracene	278		10.092	10.098	(1.133)	100794	3.09234	279.7849
26 Benzo(g,h,i)perylene	276		10.433	10.433	(1.171)	379364	10.8829	984.6468

QC Flag Legend

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

Data File: 1CC20014.D

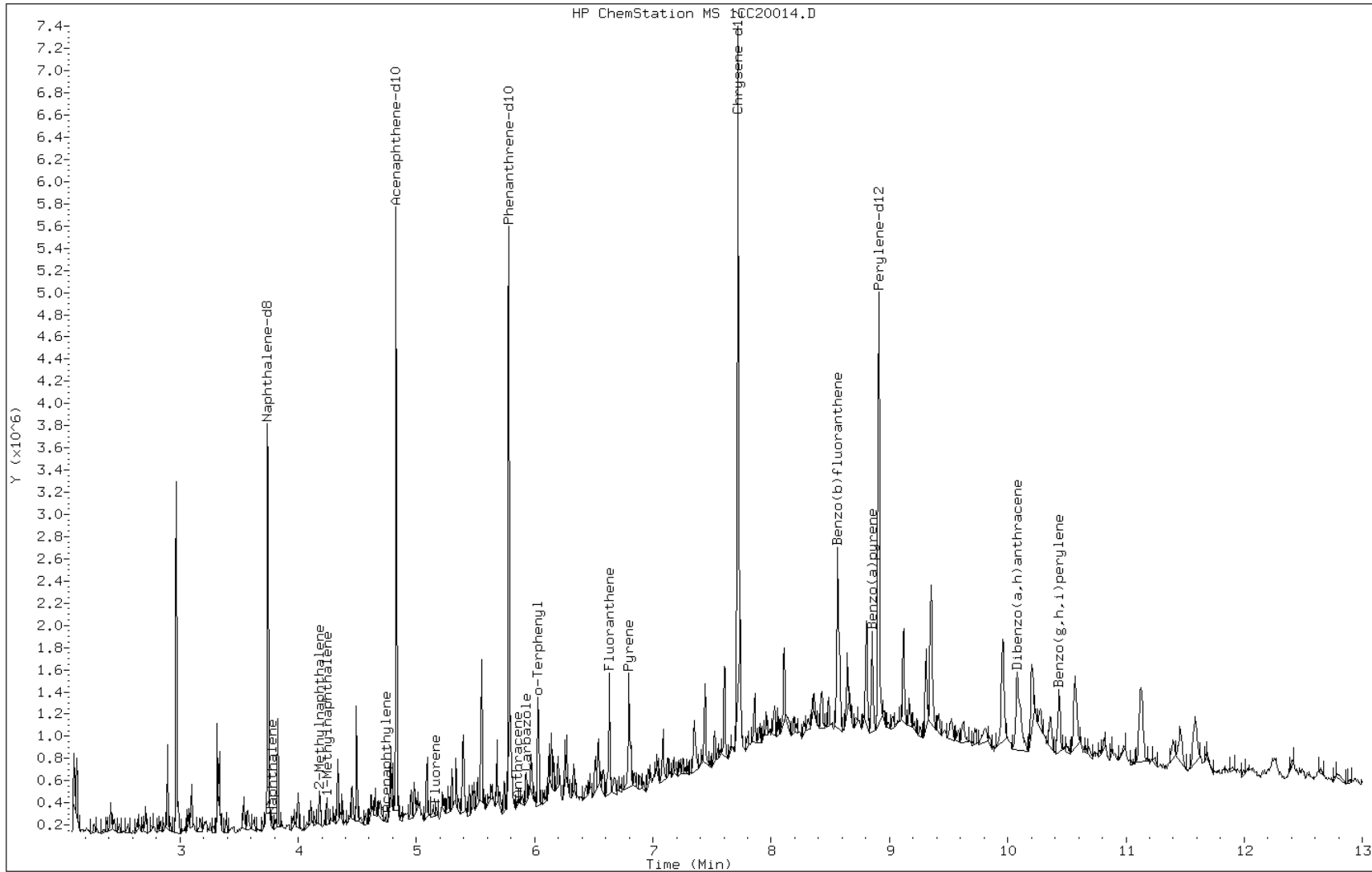
Date: 20-MAR-2013 14:00

Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

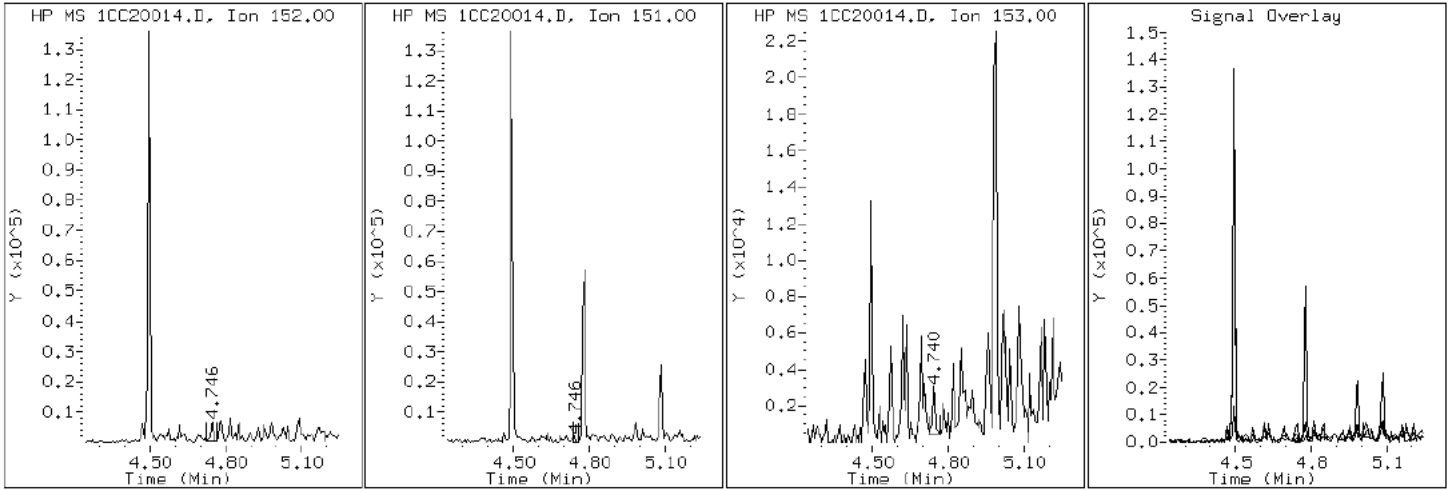
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

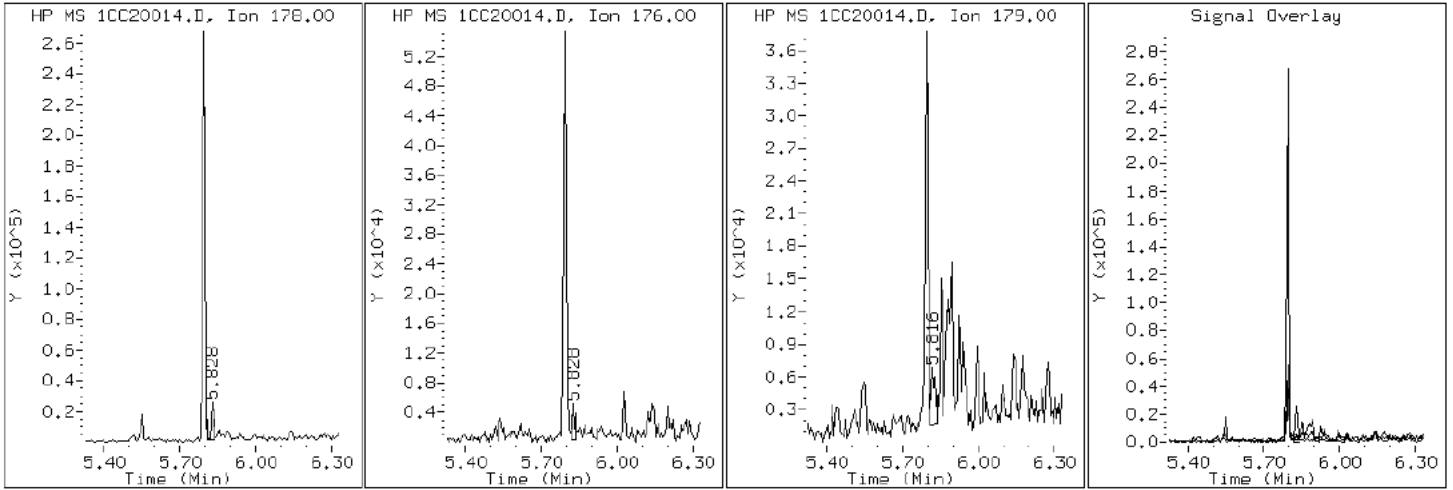
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

12 Anthracene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

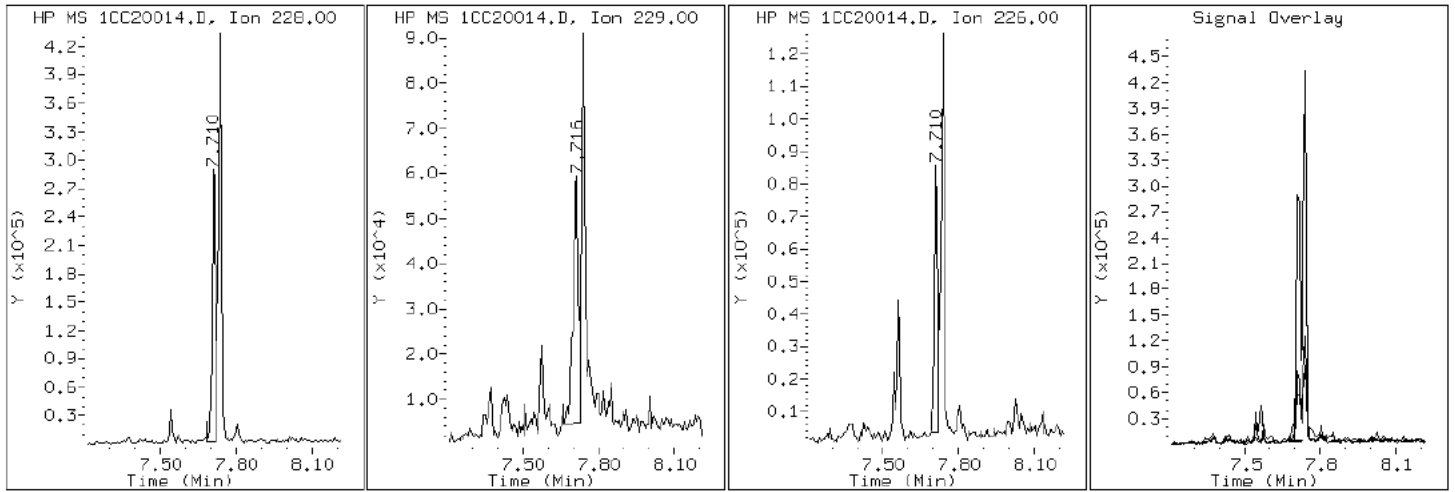
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

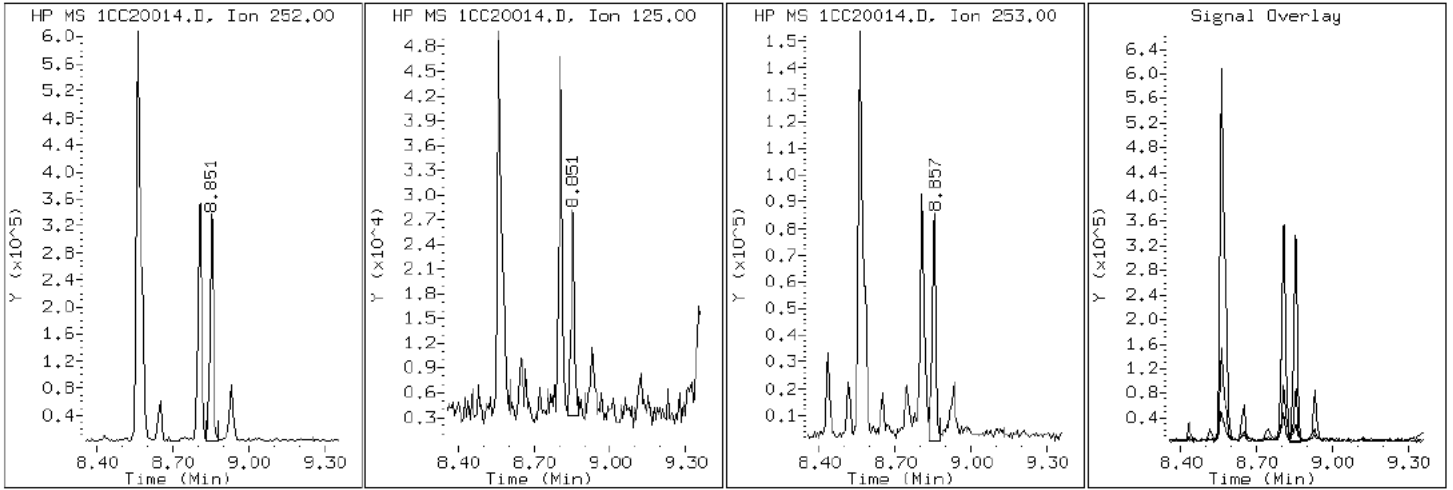
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

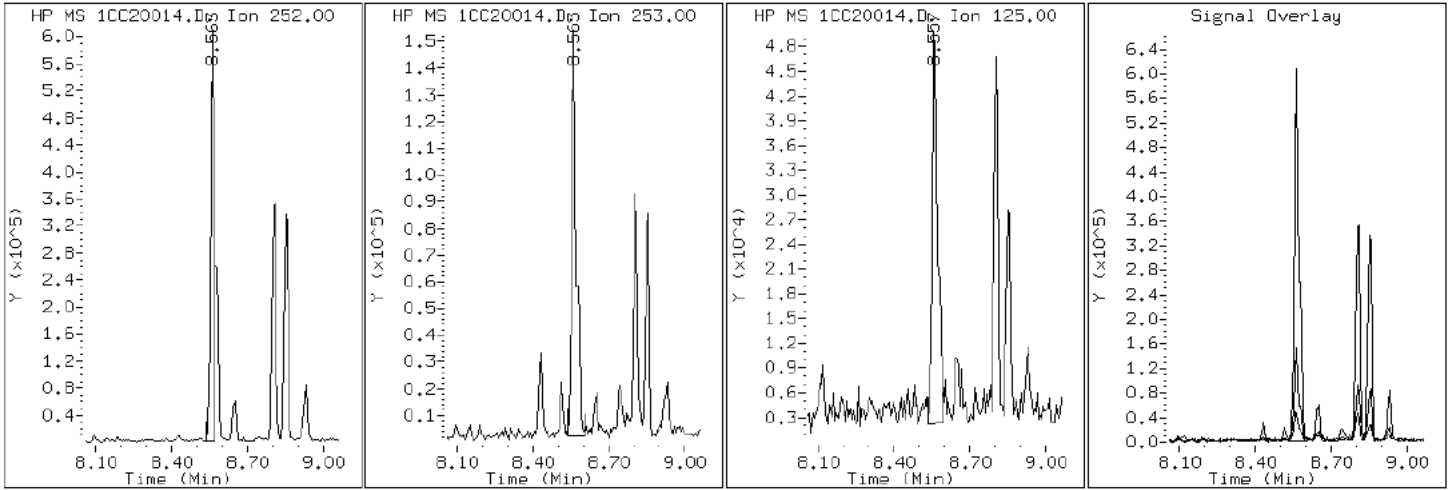
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

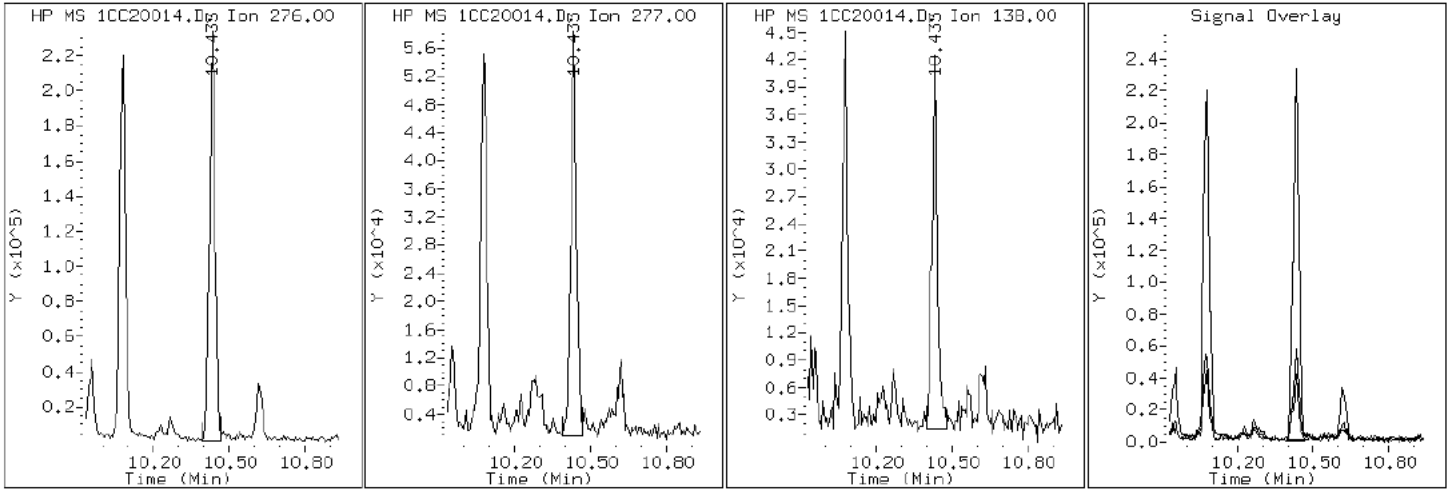
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

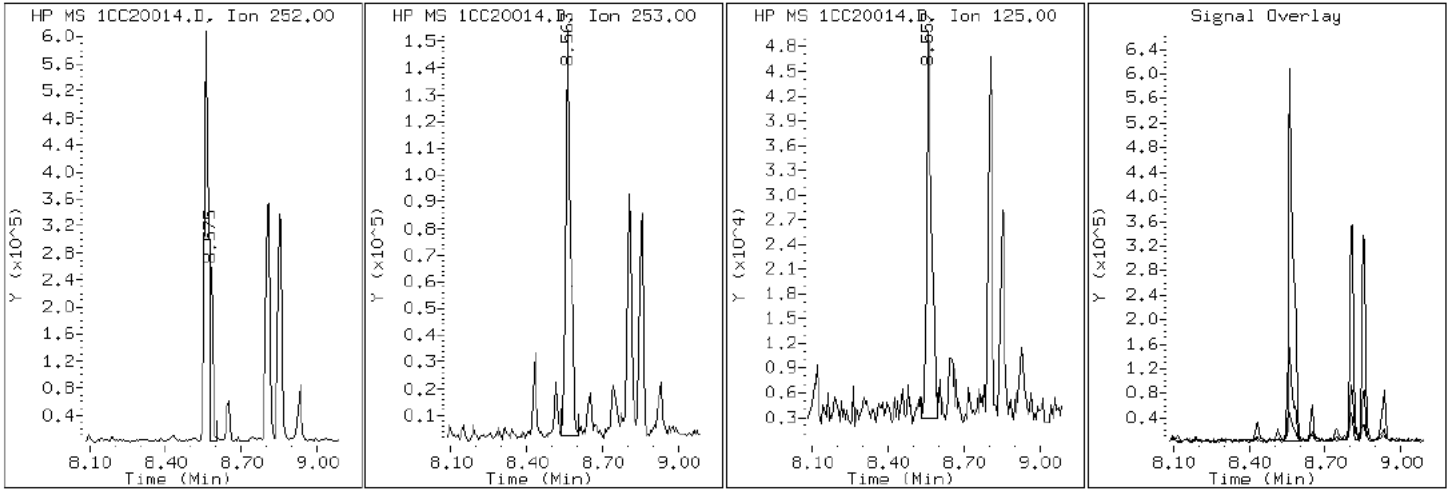
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

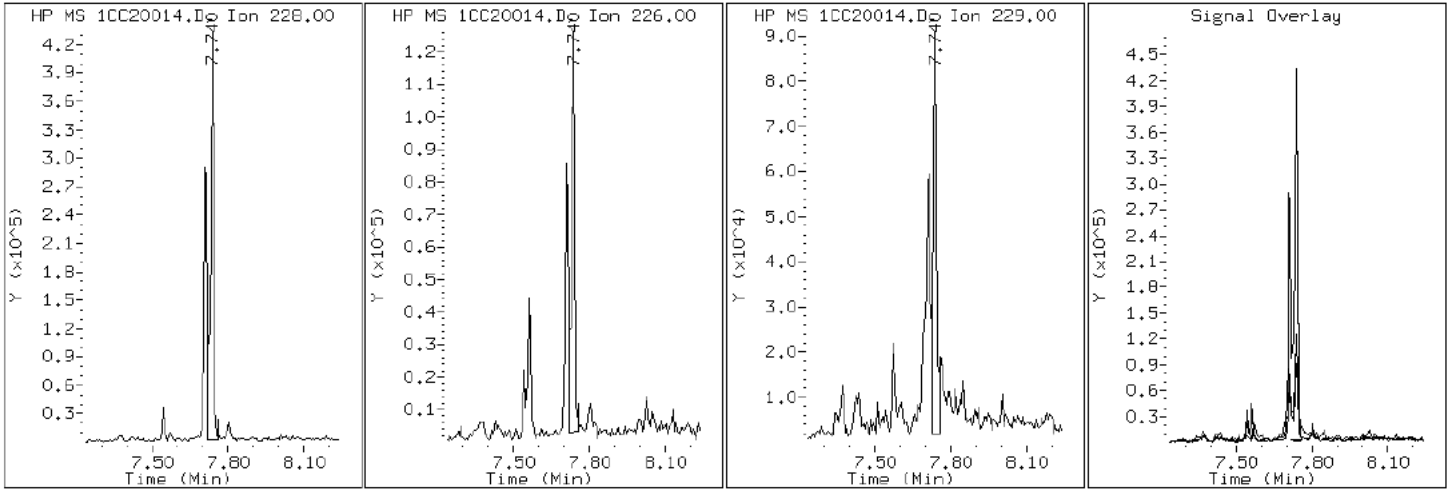
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

19 Chrysene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

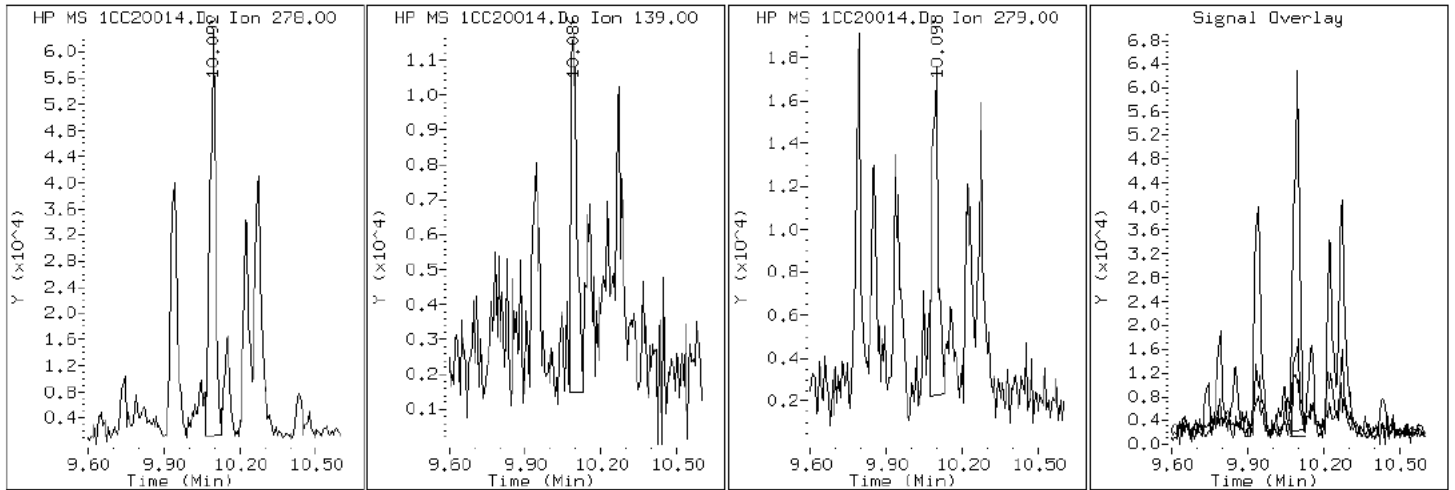
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

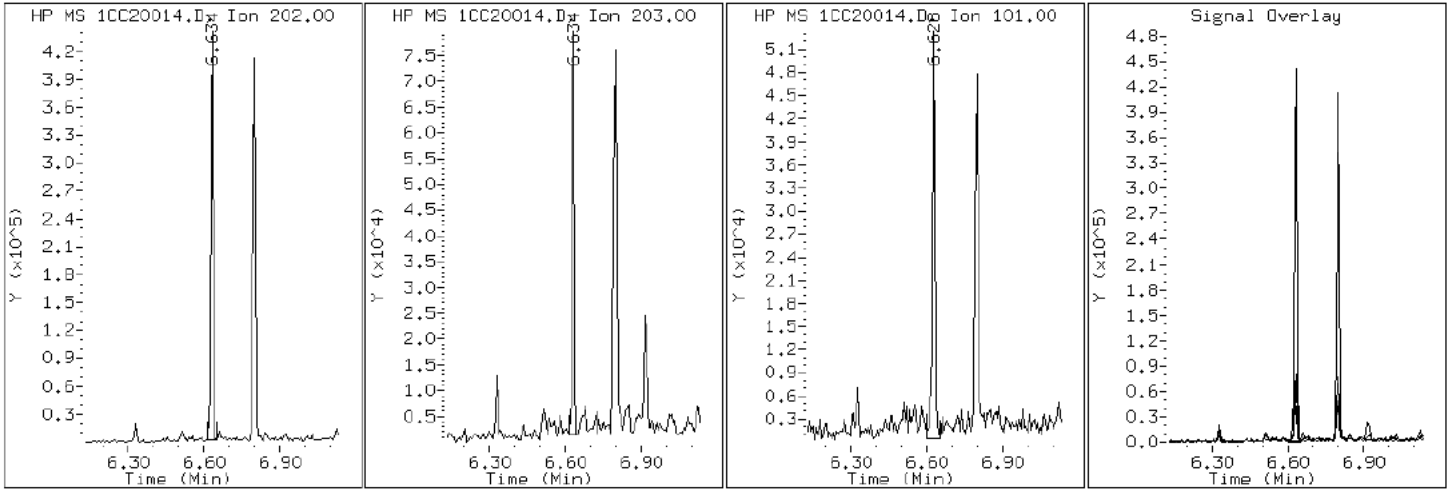
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

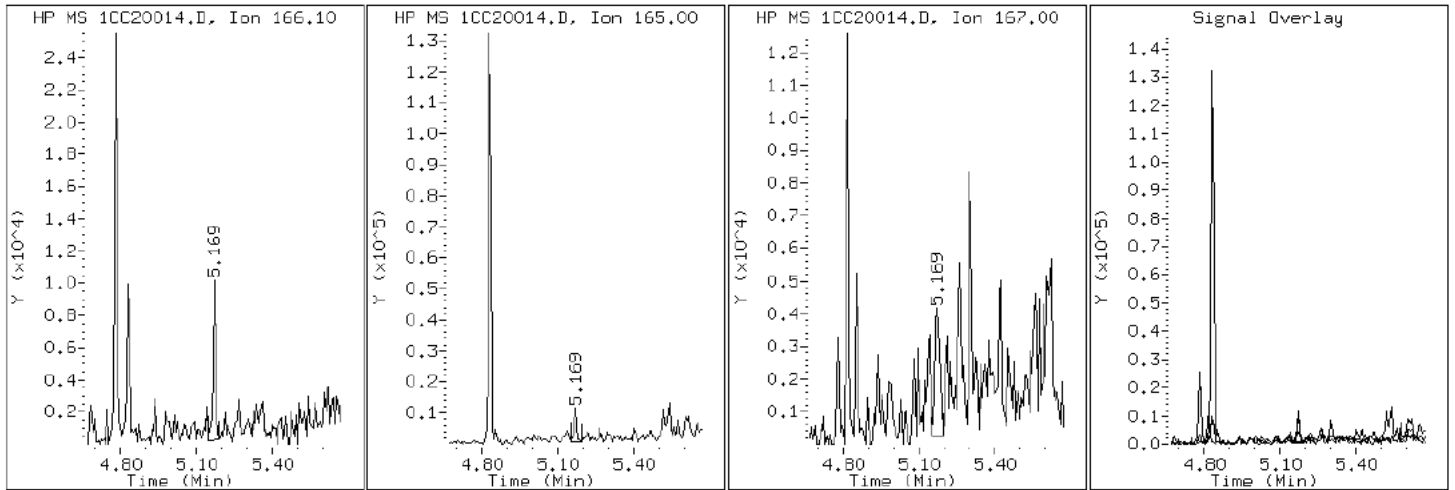
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

9 Fluorene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

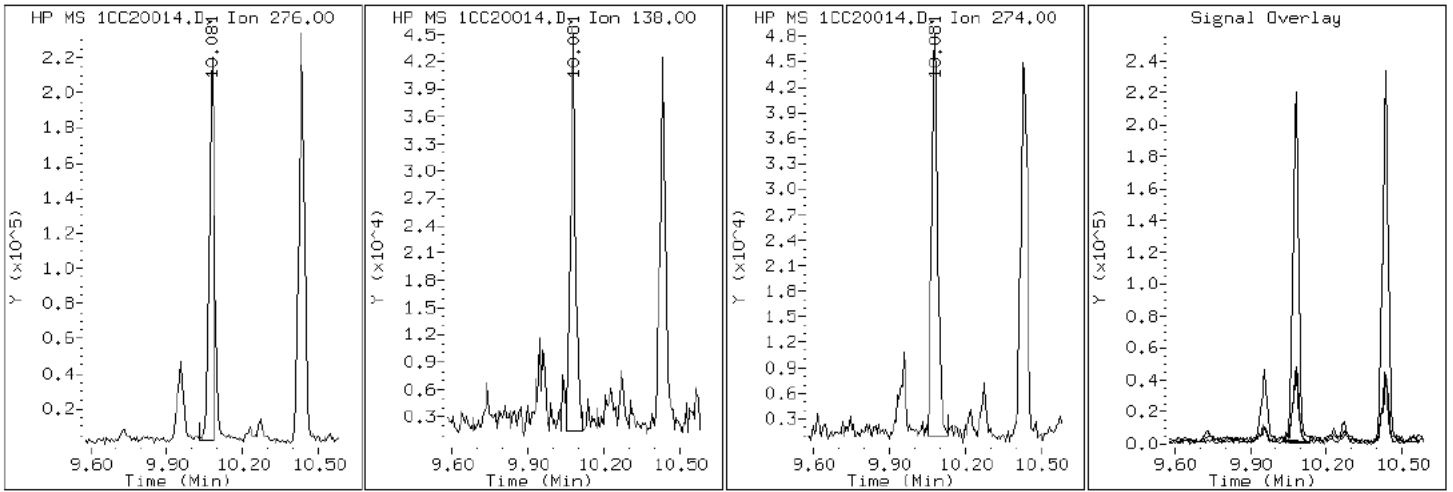
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

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



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

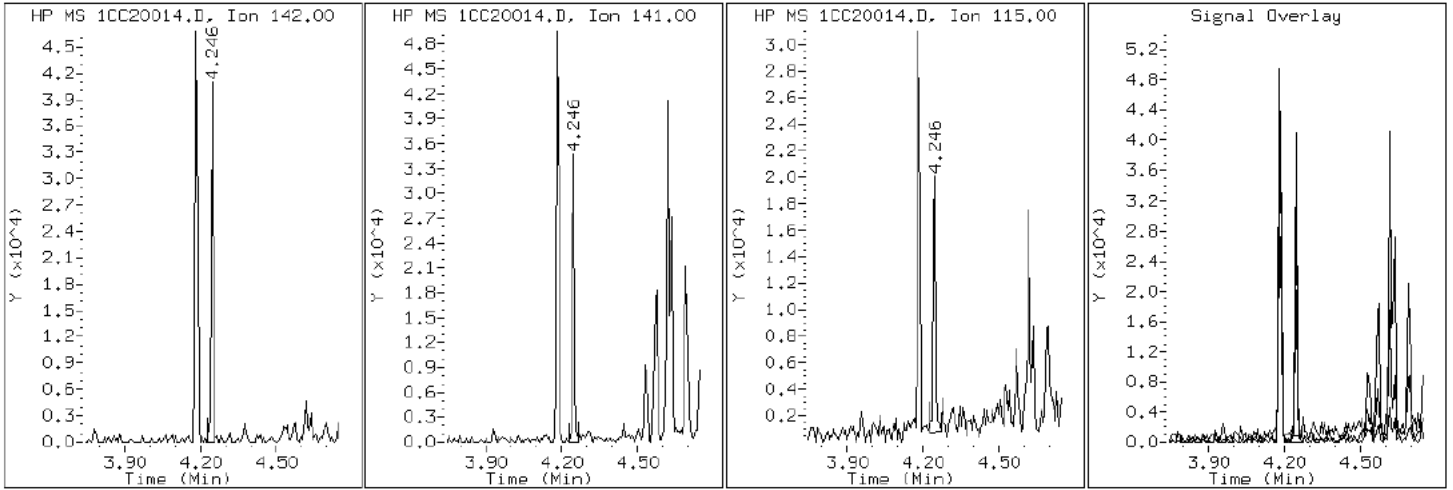
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

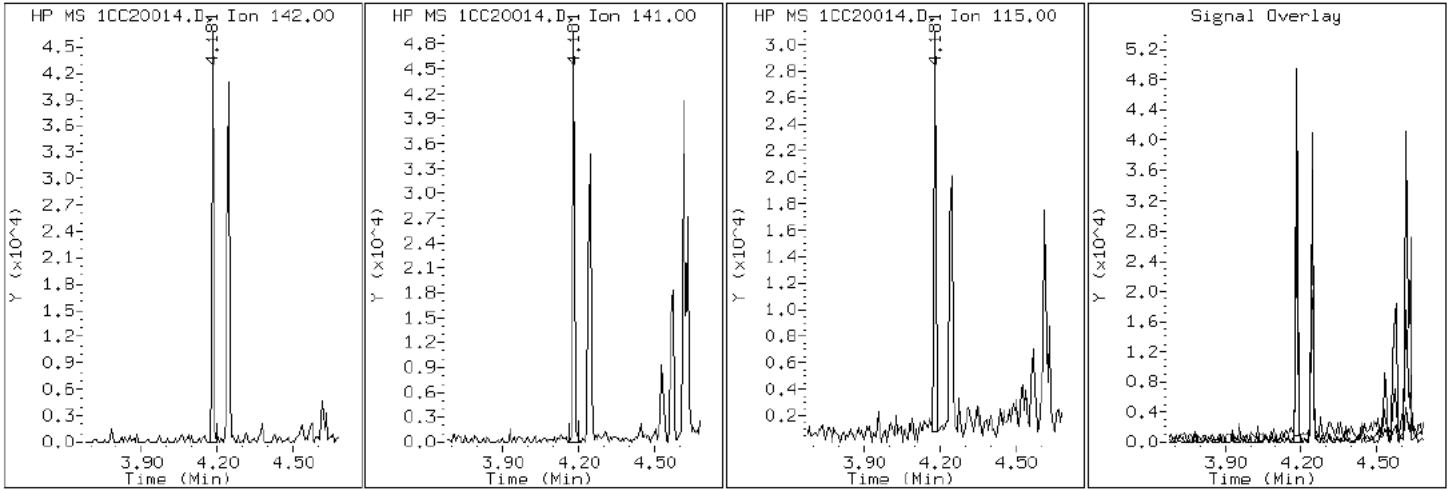
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

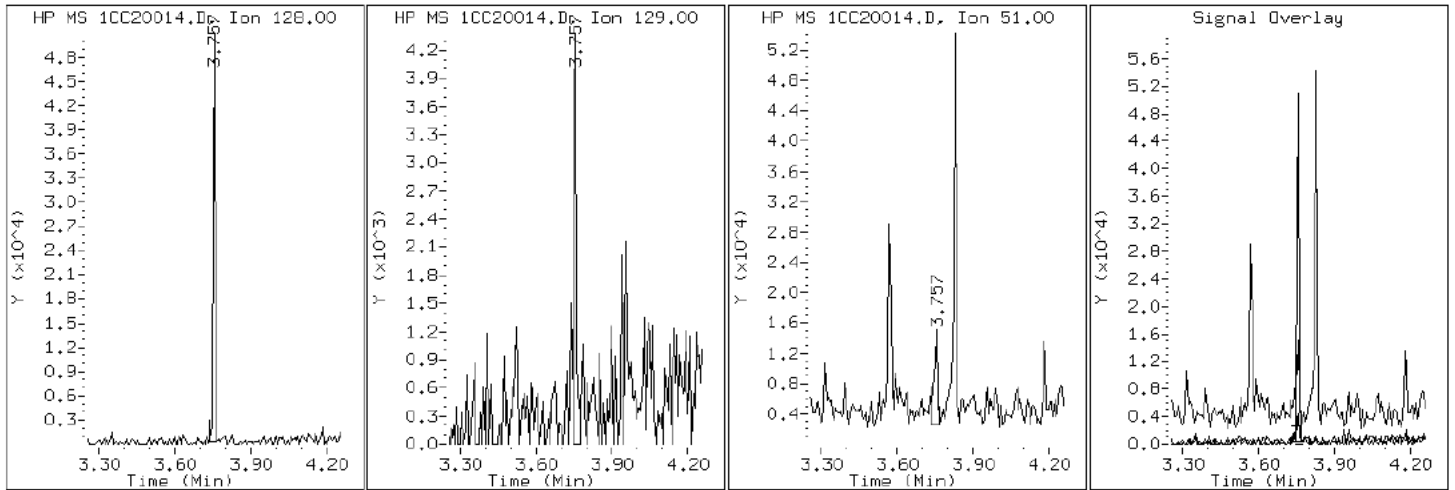
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

2 Naphthalene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

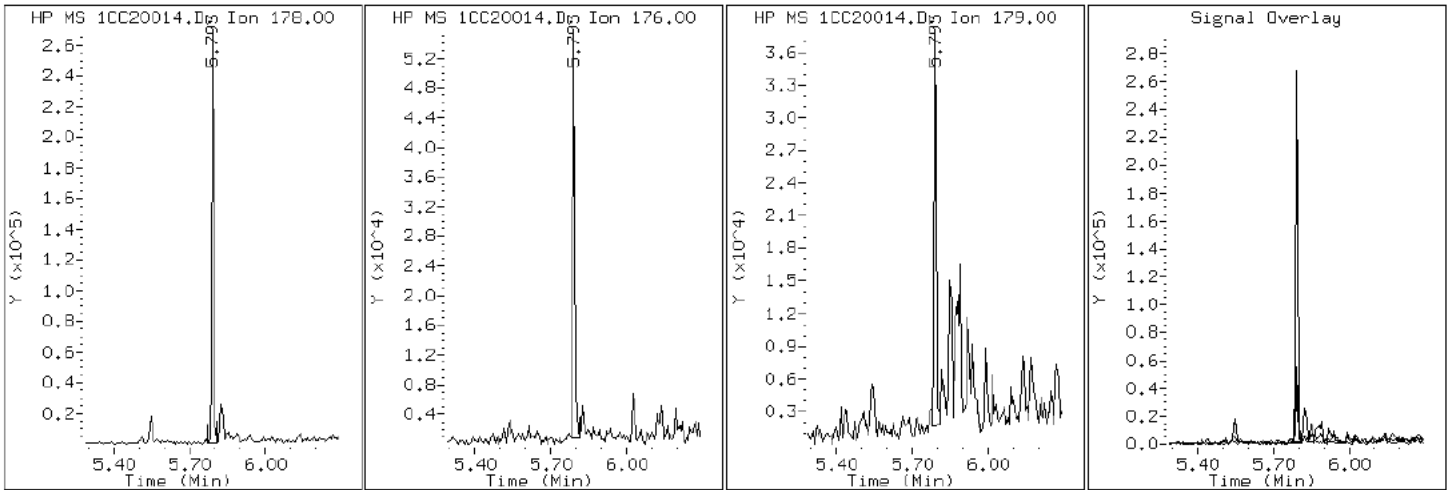
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20014.D

Date: 20-MAR-2013 14:00

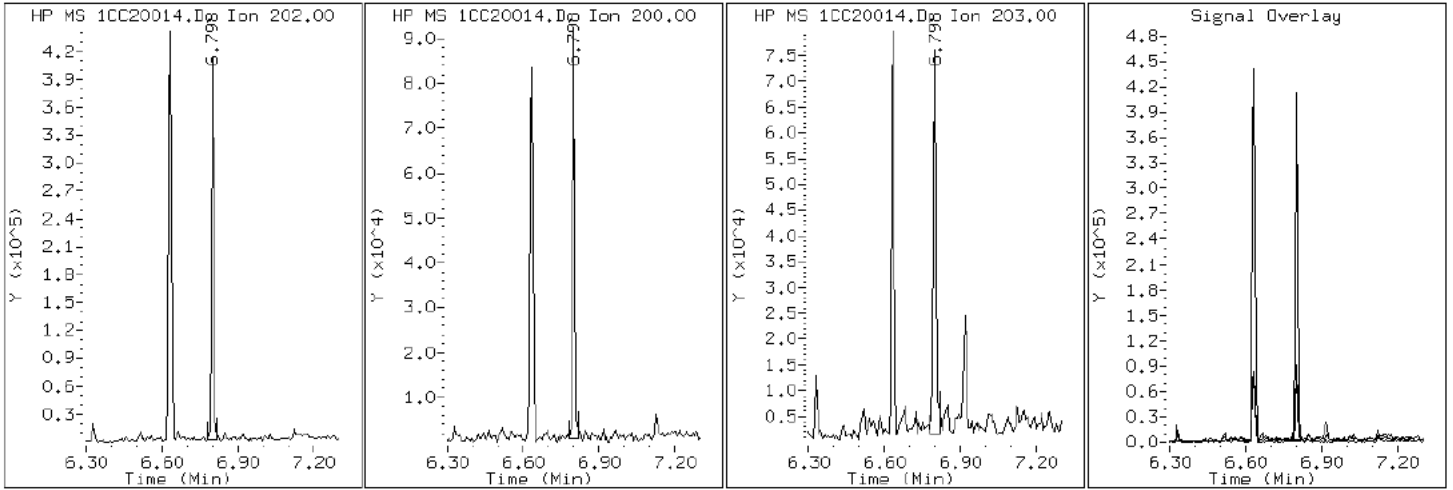
Client ID: CV0853A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-7-a

Operator: SCC

16 Pyrene

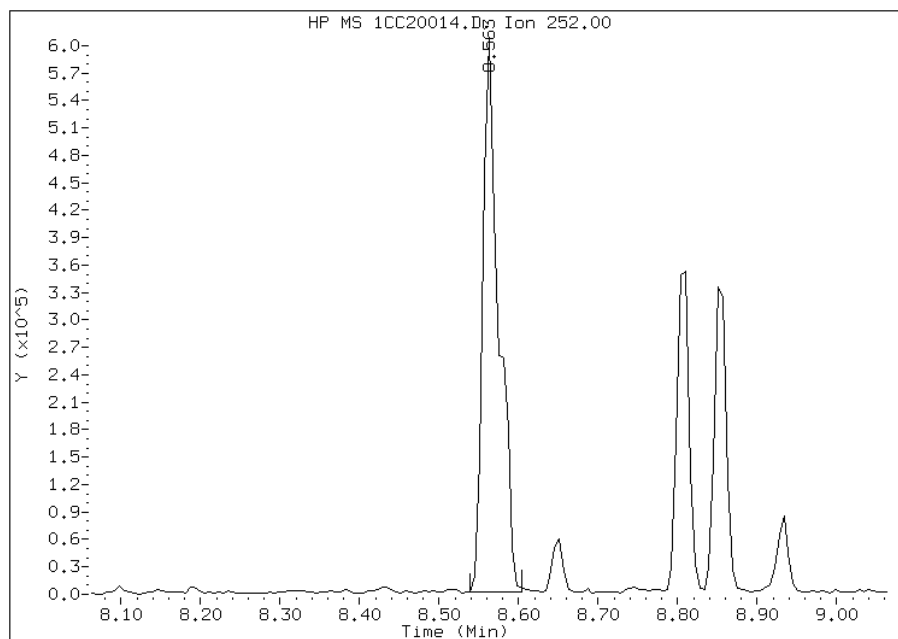


Manual Integration Report

Data File: 1CC20014.D
Inj. Date and Time: 20-MAR-2013 14:00
Instrument ID: BSMC5973.i
Client ID: CV0853A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

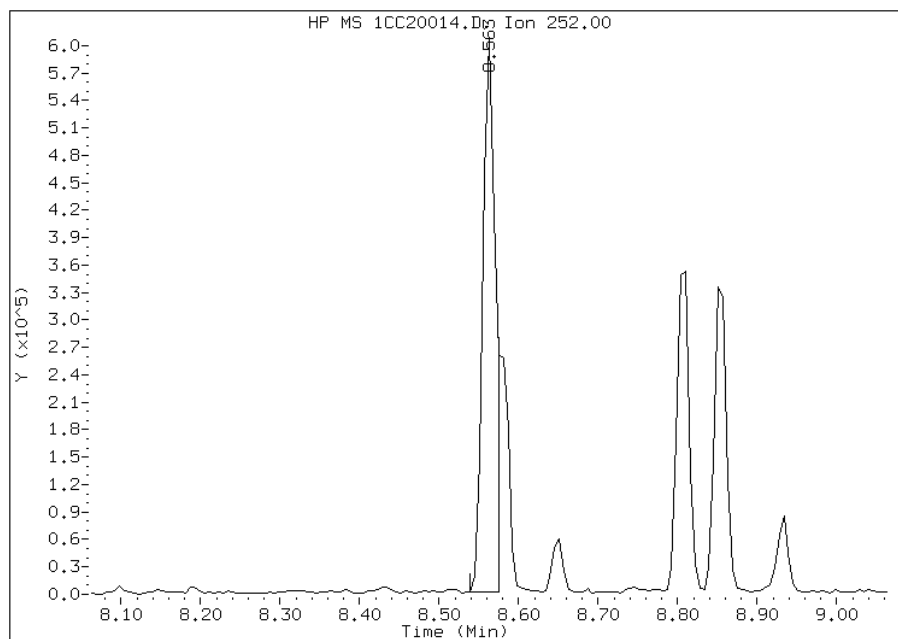
Processing Integration Results

RT: 8.56
Response: 842773
Amount: 23
Conc: 2091



Manual Integration Results

RT: 8.56
Response: 669180
Amount: 18
Conc: 1660



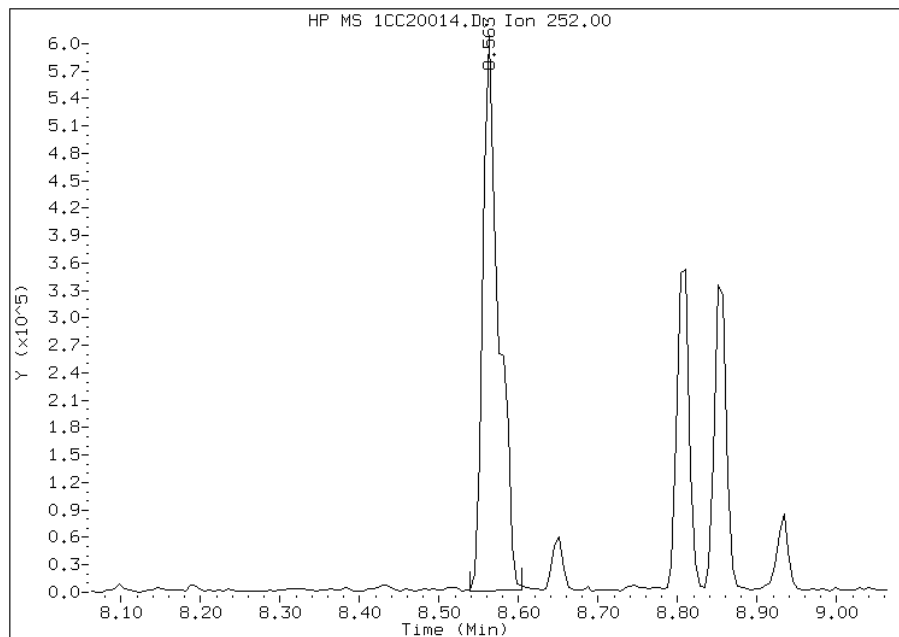
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 17:41
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20014.D
Inj. Date and Time: 20-MAR-2013 14:00
Instrument ID: BSMC5973.i
Client ID: CV0853A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

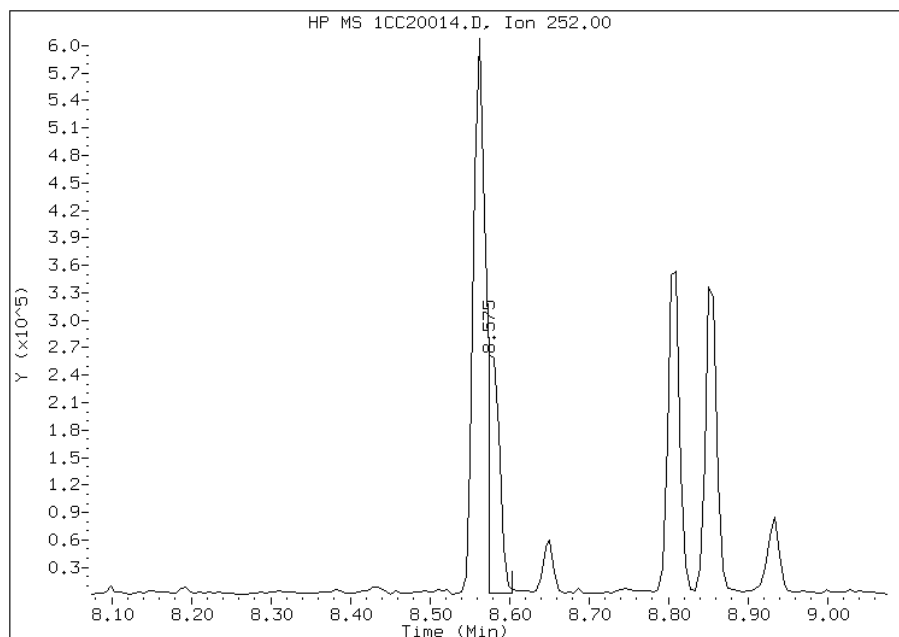
Processing Integration Results

RT: 8.56
Response: 845151
Amount: 23
Conc: 2044



Manual Integration Results

RT: 8.57
Response: 266607
Amount: 7
Conc: 645



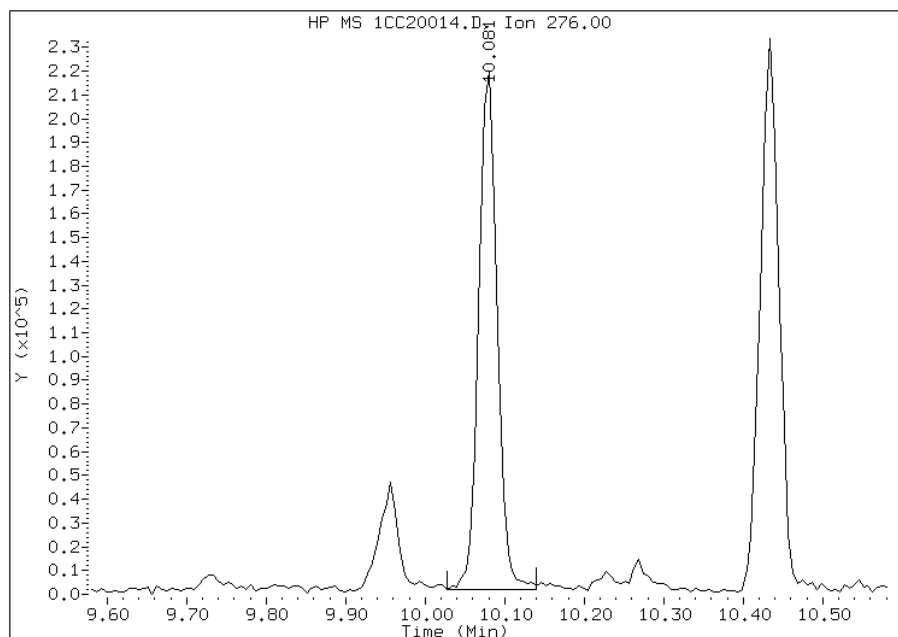
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 17:41
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20014.D
Inj. Date and Time: 20-MAR-2013 14:00
Instrument ID: BSMC5973.i
Client ID: CV0853A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

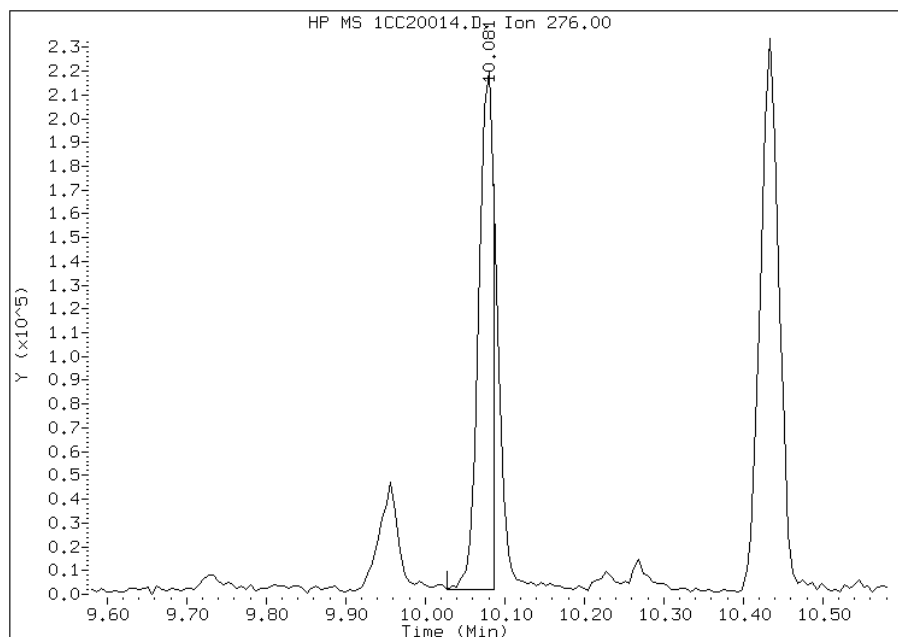
Processing Integration Results

RT: 10.08
Response: 345879
Amount: 10
Conc: 939



Manual Integration Results

RT: 10.08
Response: 286447
Amount: 9
Conc: 778



Manually Integrated By: cantins
Modification Date: 20-Mar-2013 17:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0853B-GS Lab Sample ID: 680-88176-8
 Matrix: Solid Lab File ID: 1CC20015.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 11:05
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.22(g) Date Analyzed: 03/20/2013 14:18
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 36.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	620	U	620	120
208-96-8	Acenaphthylene	31	J	250	31
120-12-7	Anthracene	41	J	52	26
56-55-3	Benzo[a]anthracene	250		50	24
50-32-8	Benzo[a]pyrene	370		65	32
205-99-2	Benzo[b]fluoranthene	790		76	38
191-24-2	Benzo[g,h,i]perylene	410		120	27
207-08-9	Benzo[k]fluoranthene	280		50	22
218-01-9	Chrysene	440		56	28
53-70-3	Dibenz(a,h)anthracene	150		120	26
206-44-0	Fluoranthene	340		120	25
86-73-7	Fluorene	34	J	120	26
193-39-5	Indeno[1,2,3-cd]pyrene	300		120	44
90-12-0	1-Methylnaphthalene	100	J	250	27
91-57-6	2-Methylnaphthalene	160	J	250	44
91-20-3	Naphthalene	200	J	250	27
85-01-8	Phenanthrene	260		50	24
129-00-0	Pyrene	280		120	23

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20015.D
 Lab Smp Id: 680-88176-A-8-A Client Smp ID: CV0853B-GS
 Inj Date : 20-MAR-2013 14:18
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-8-a
 Misc Info : 680-88176-A-8-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 15
 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	36.907	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

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	3.745	3.745	(1.000)	946627	40.0000	
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	782202	40.0000	
* 10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1449018	40.0000	
\$ 14 o-Terphenyl	230	6.027	6.027	(1.043)	31334	1.43223	596.5952
* 18 Chrysene-d12	240	7.721	7.721	(1.000)	1612716	40.0000	
* 23 Perylene-d12	264	8.909	8.909	(1.000)	1511359	40.0000	
2 Naphthalene	128	3.757	3.757	(1.003)	11993	0.48664	202.7110(Q)
3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	6305	0.38354	159.7645
4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	3611	0.24119	100.4658
5 Acenaphthylene	152	4.745	4.745	(0.983)	2370	0.07515	31.3046
9 Fluorene	166	5.168	5.169	(1.071)	2003	0.08080	33.6573(Q)
11 Phenanthrene	178	5.792	5.792	(1.002)	25732	0.61414	255.8194
12 Anthracene	178	5.827	5.827	(1.008)	4004	0.09771	40.7022
13 Carbazole	167	5.933	5.933	(1.026)	4673	0.12829	53.4382

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
15 Fluoranthene	202		6.627	6.633	(1.147)	37337	0.81371	338.9513
16 Pyrene	202		6.798	6.798	(0.880)	29111	0.67170	279.7948
17 Benzo(a)anthracene	228		7.715	7.715	(0.999)	28430	0.61079	254.4246
19 Chrysene	228		7.739	7.739	(1.002)	48881	1.04937	437.1156
20 Benzo(b)fluoranthene	252		8.562	8.562	(0.961)	75074	1.90073	791.7469(M)
21 Benzo(k)fluoranthene	252		8.580	8.586	(0.963)	27248	0.67249	280.1236(QM)
22 Benzo(a)pyrene	252		8.856	8.857	(0.994)	33631	0.87661	365.1496
24 Indeno(1,2,3-cd)pyrene	276		10.080	10.080	(1.131)	26336	0.72972	303.9639(M)
25 Dibenzo(a,h)anthracene	278		10.097	10.098	(1.133)	12306	0.34860	145.2070
26 Benzo(g,h,i)perylene	276		10.433	10.433	(1.171)	37026	0.98072	408.5191

QC Flag Legend

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

Data File: 1CC20015.D

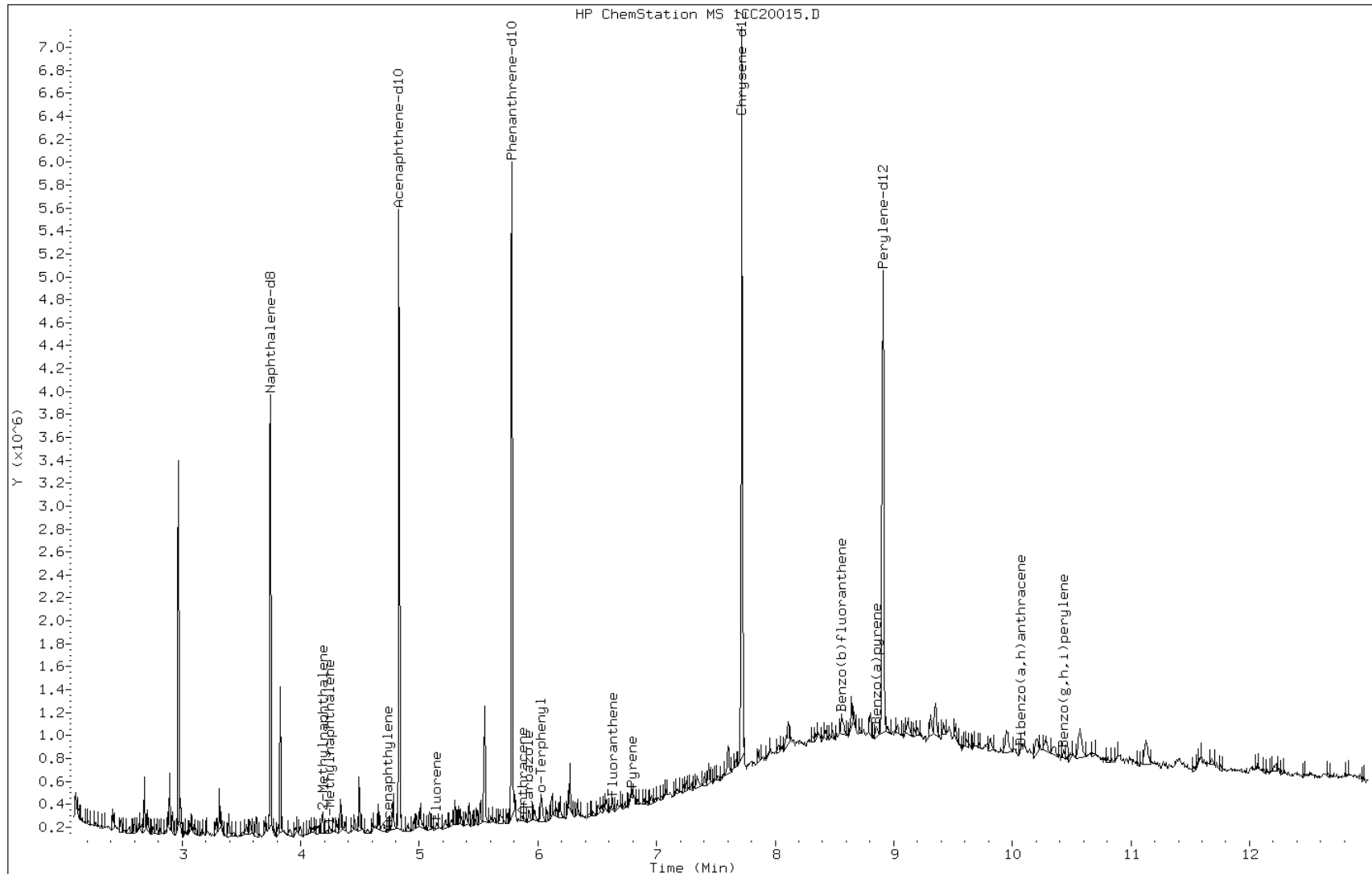
Date: 20-MAR-2013 14:18

Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

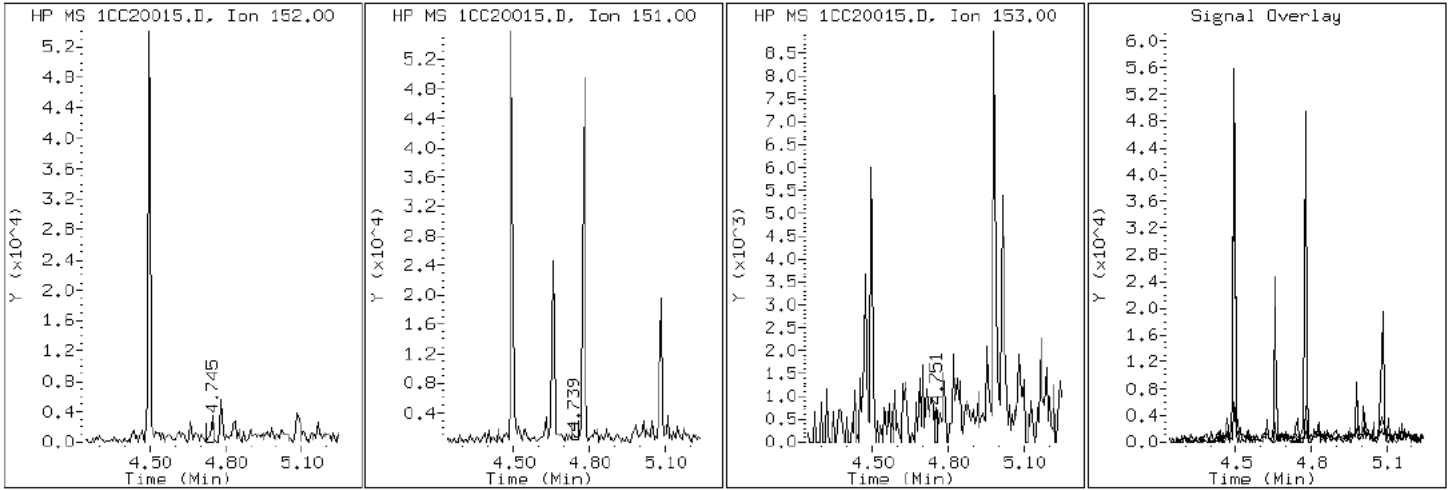
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

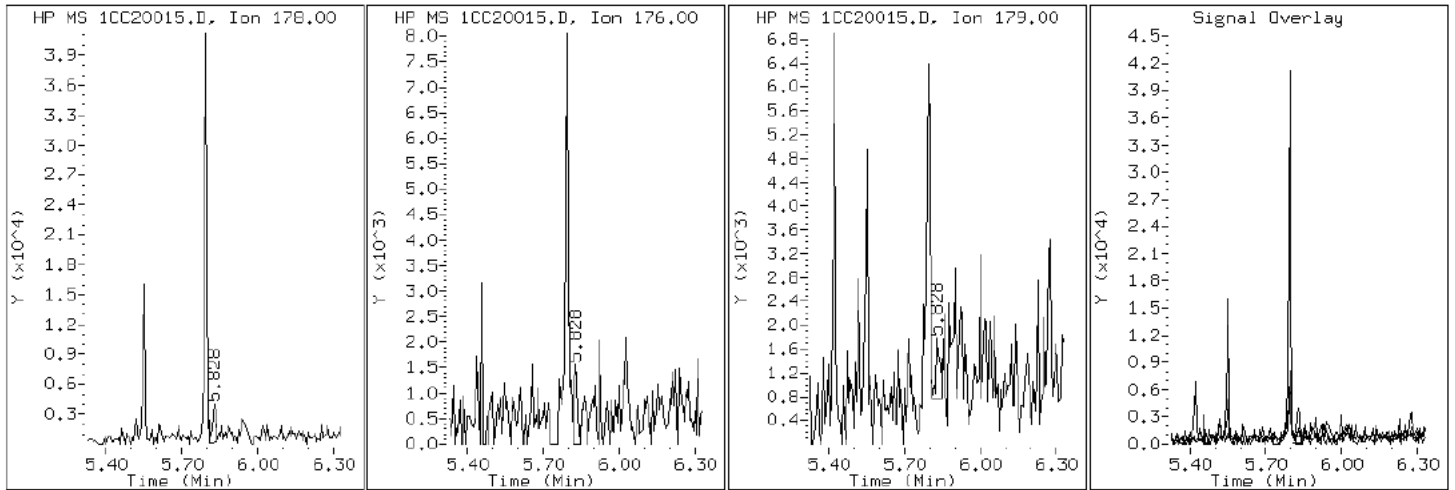
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

12 Anthracene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

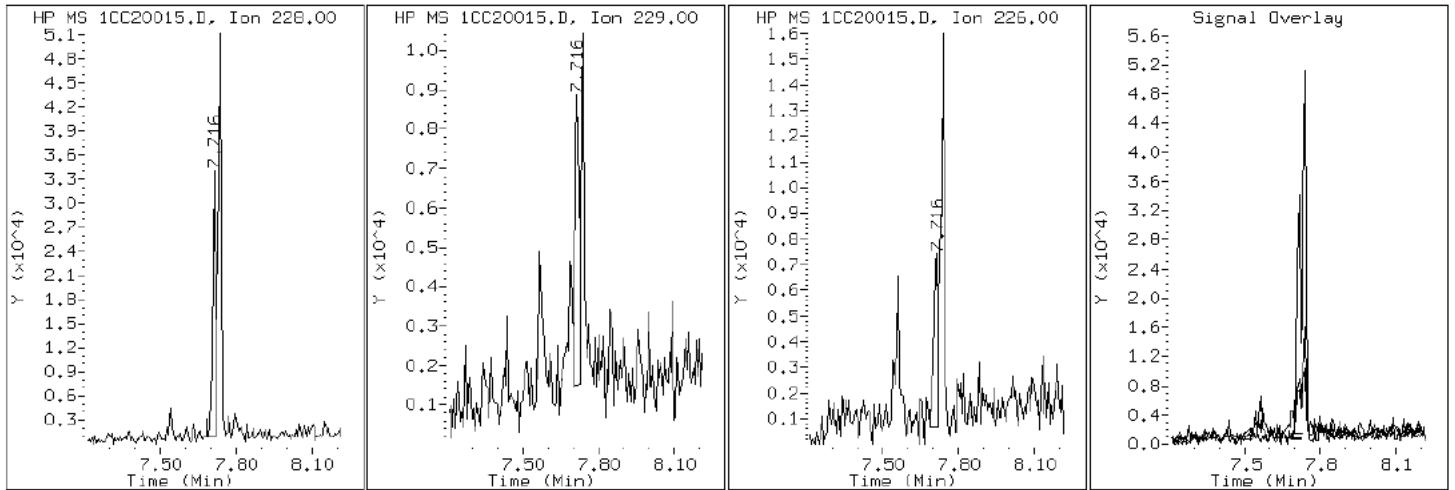
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

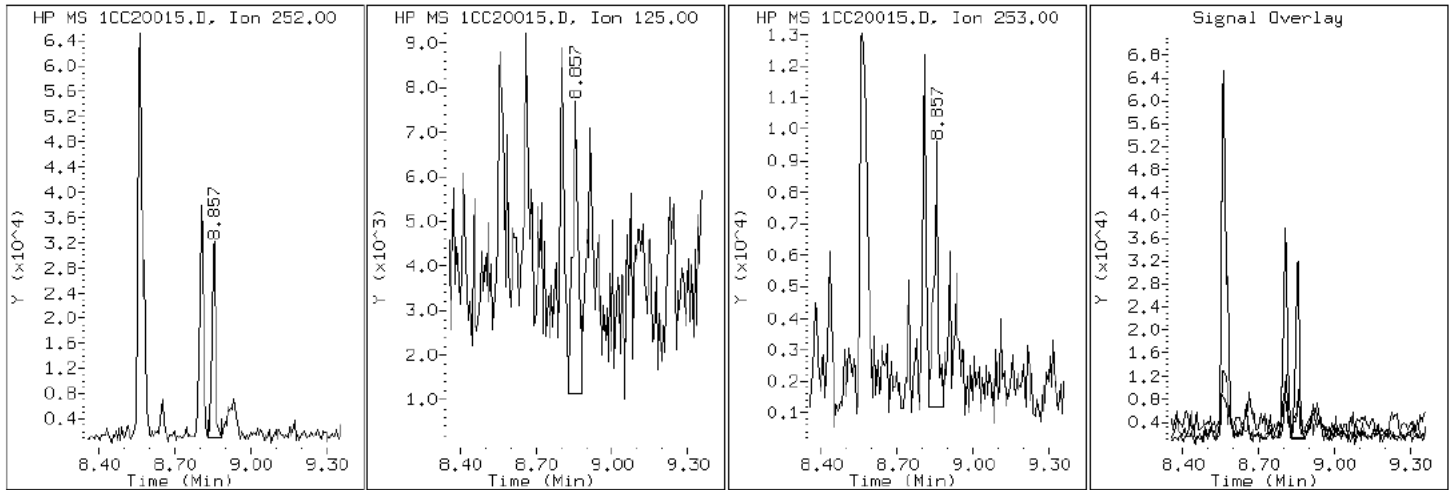
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

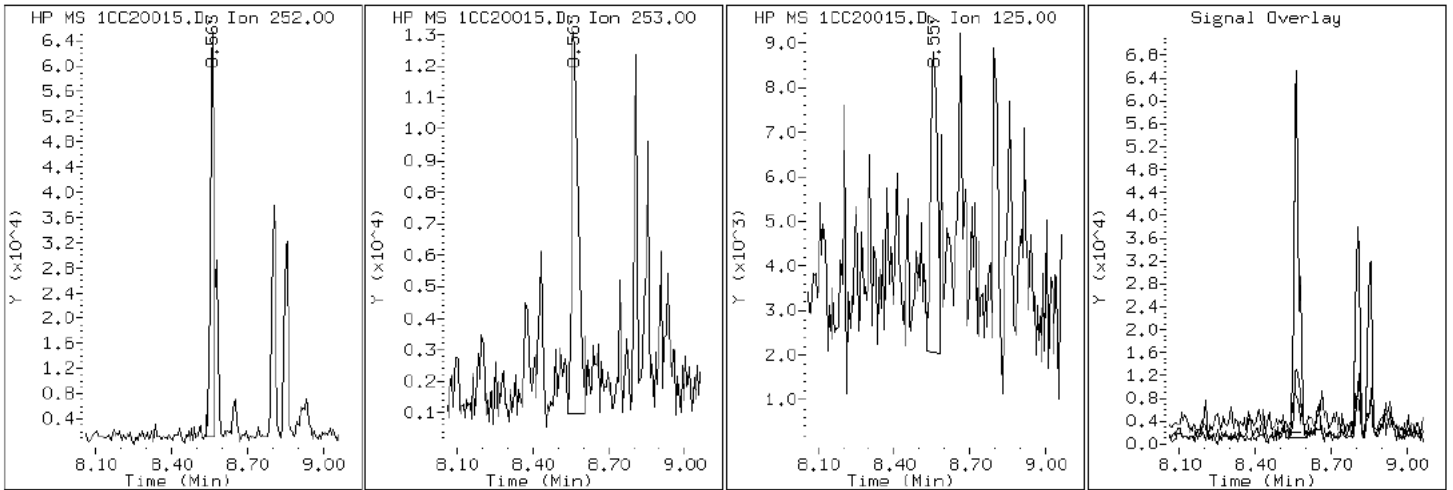
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

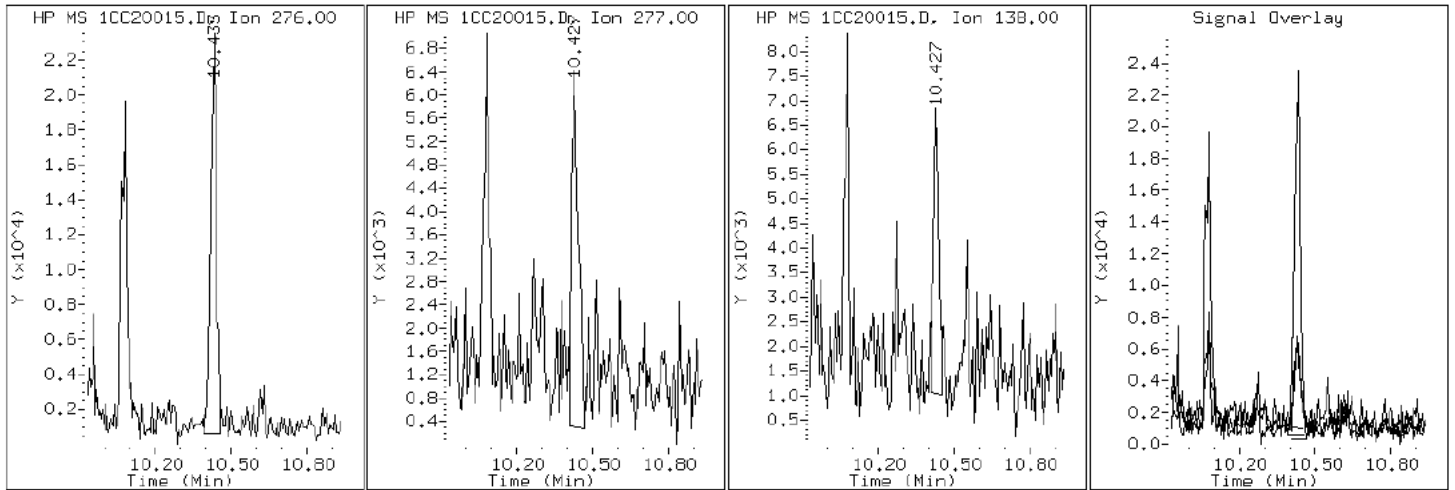
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

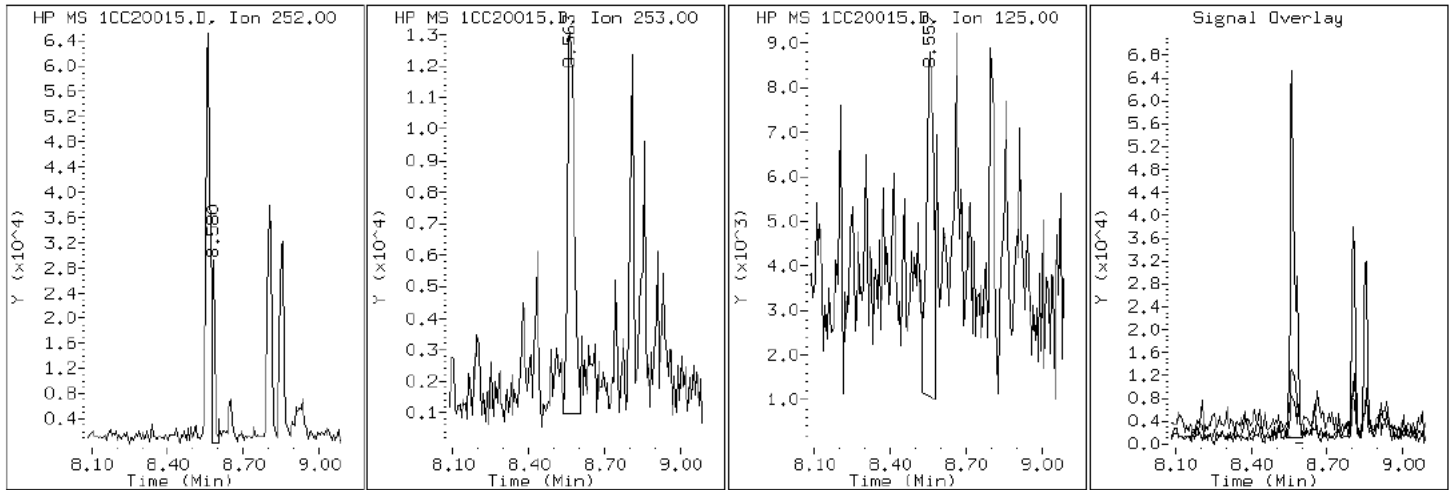
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

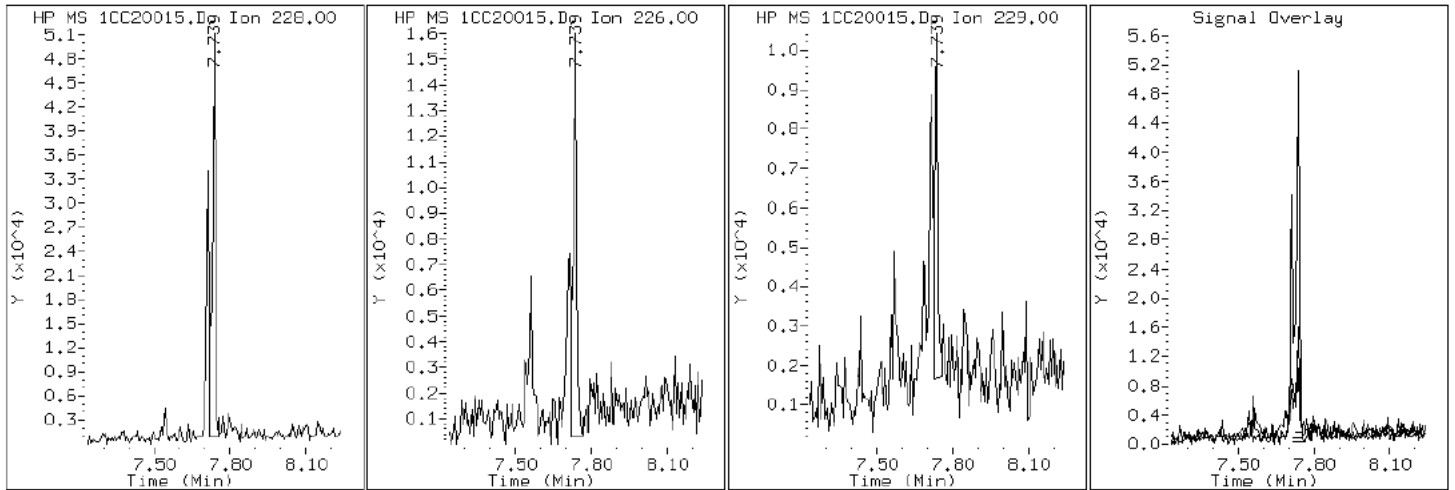
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

19 Chrysene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

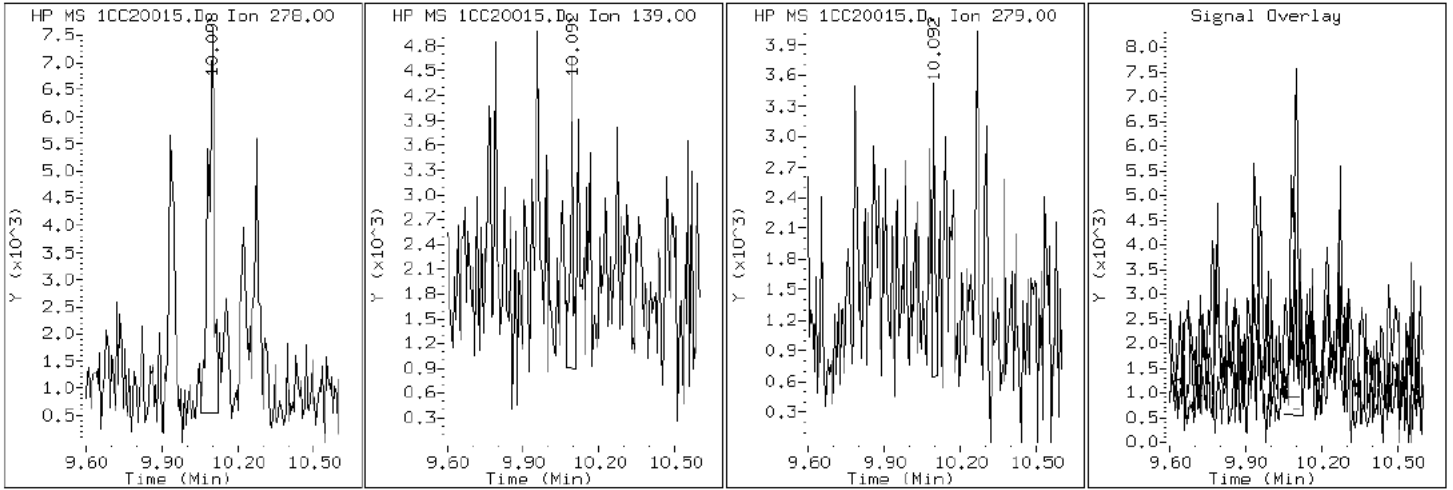
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

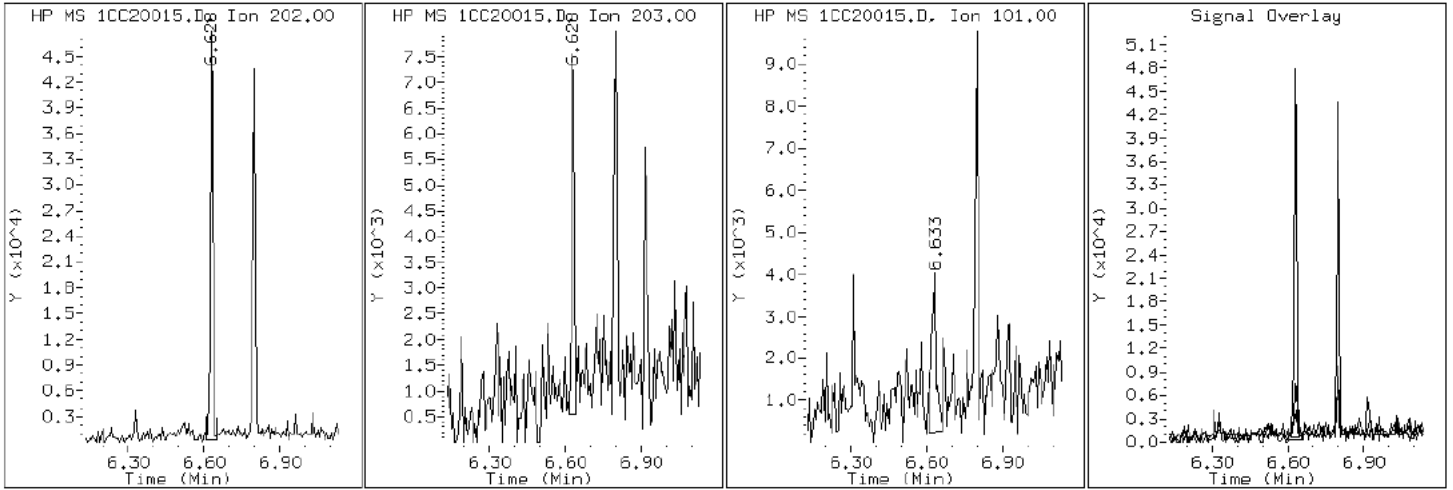
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

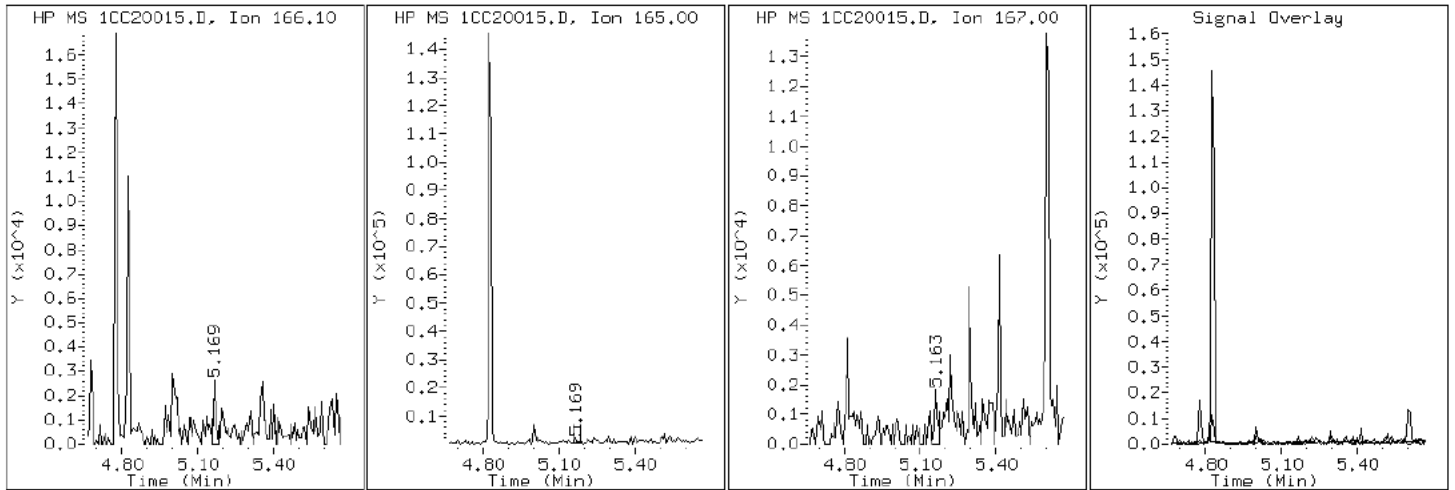
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

9 Fluorene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

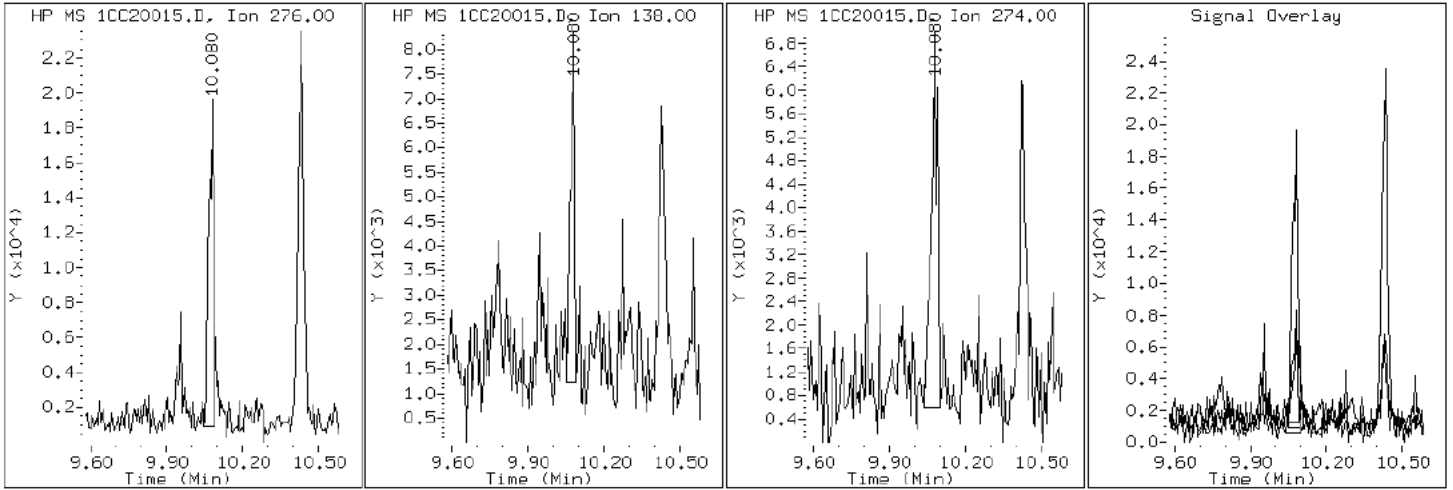
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

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



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

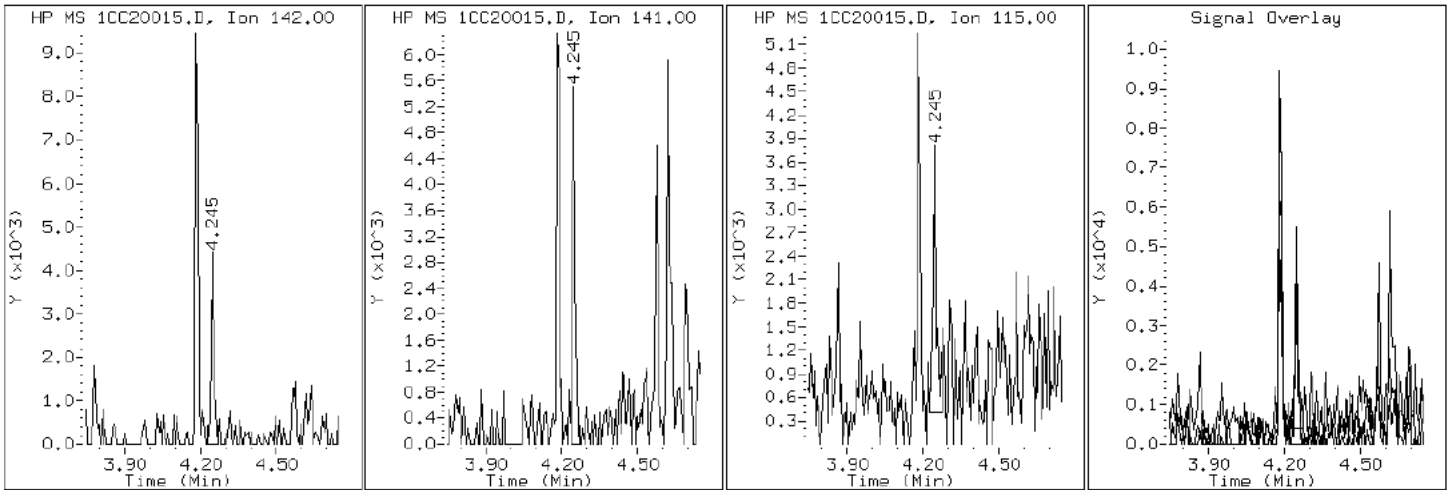
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

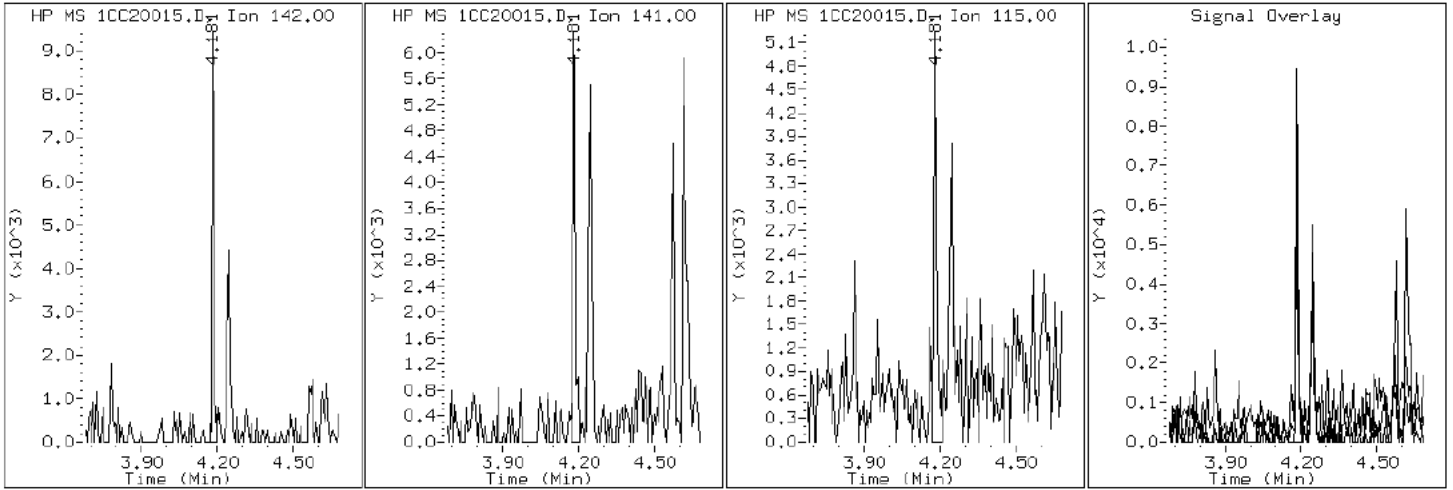
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

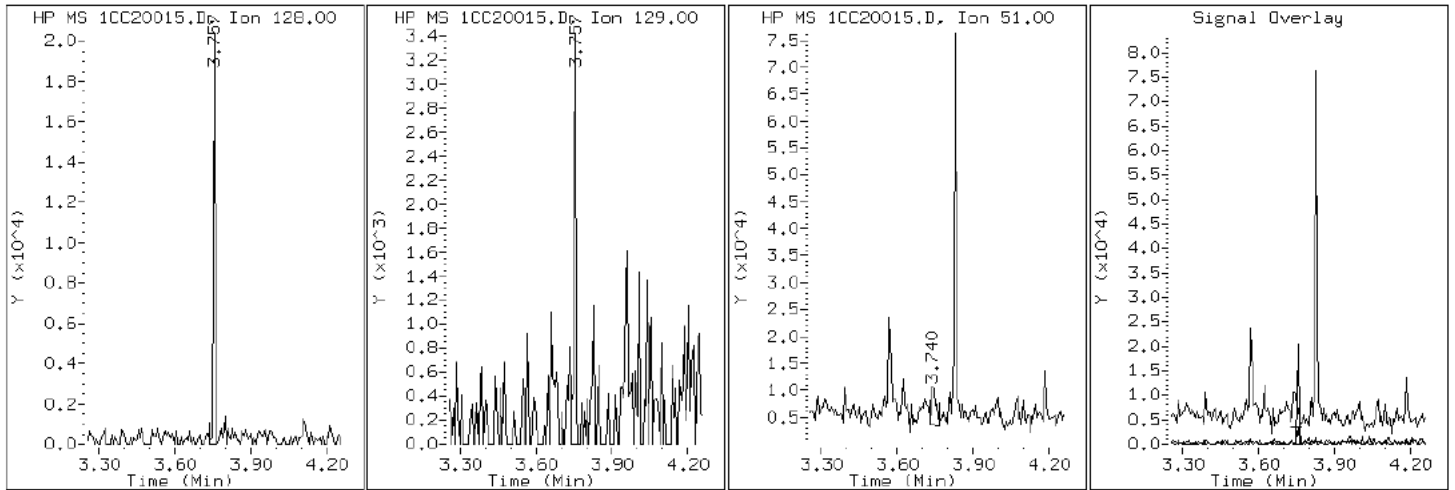
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

2 Naphthalene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

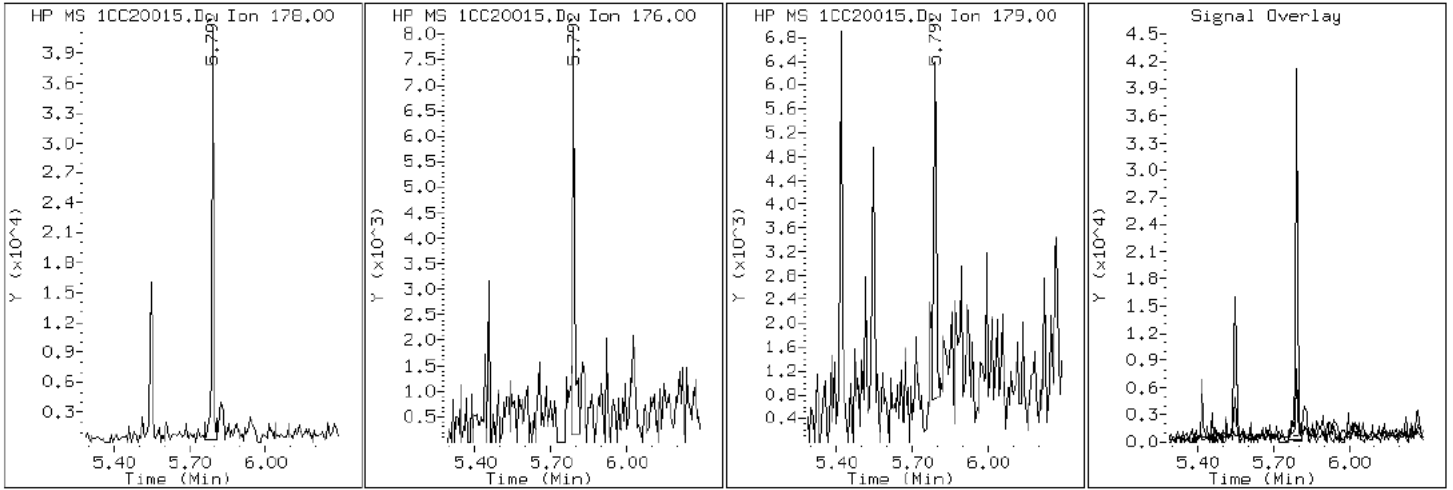
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20015.D

Date: 20-MAR-2013 14:18

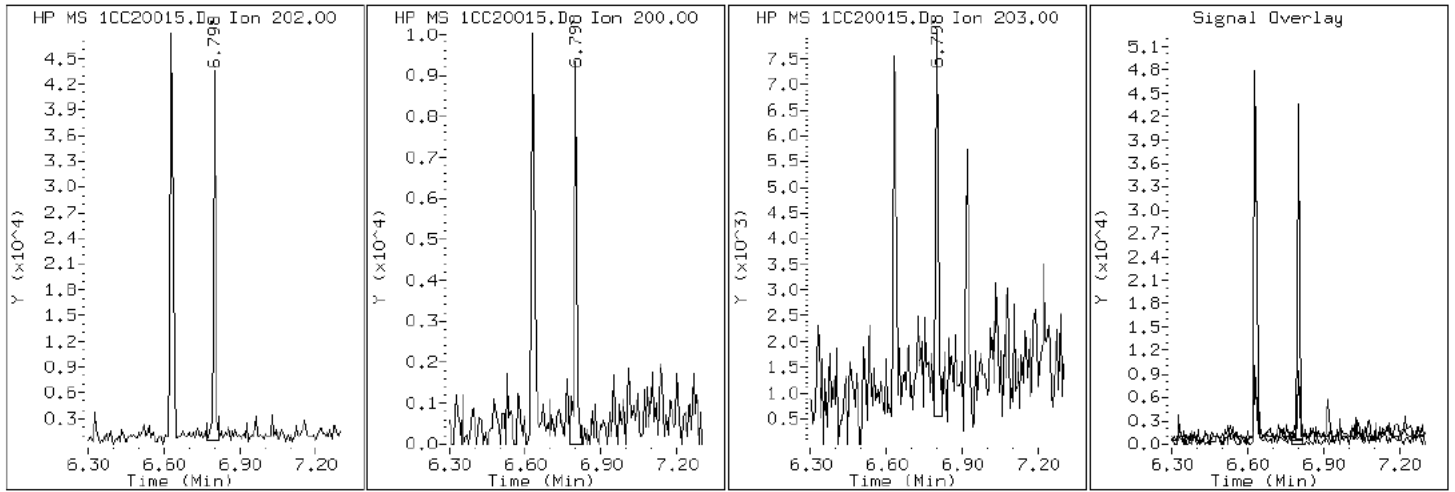
Client ID: CV0853B-GS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-8-a

Operator: SCC

16 Pyrene

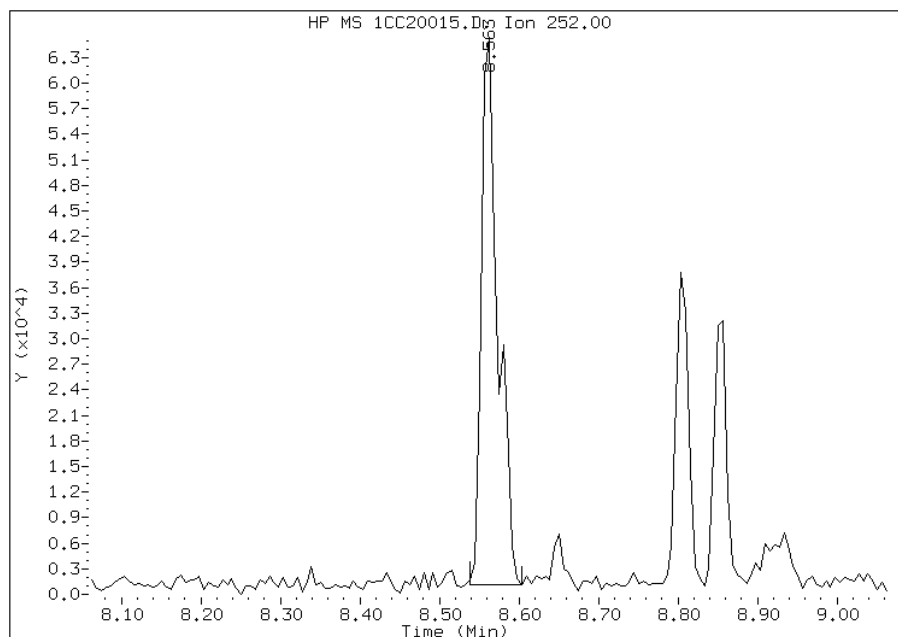


Manual Integration Report

Data File: 1CC20015.D
Inj. Date and Time: 20-MAR-2013 14:18
Instrument ID: BSMC5973.i
Client ID: CV0853B-GS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

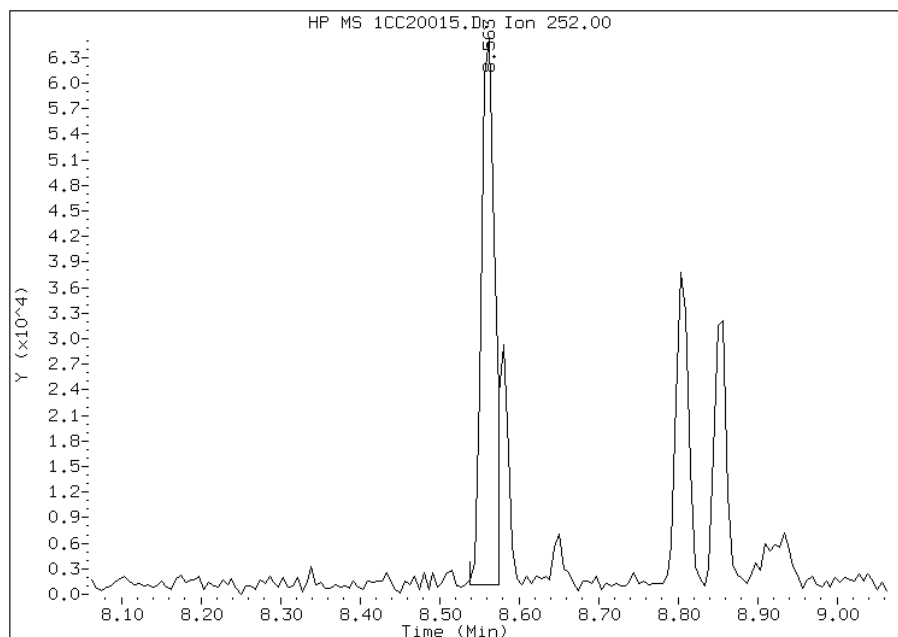
Processing Integration Results

RT: 8.56
Response: 92406
Amount: 2
Conc: 975



Manual Integration Results

RT: 8.56
Response: 75074
Amount: 2
Conc: 792



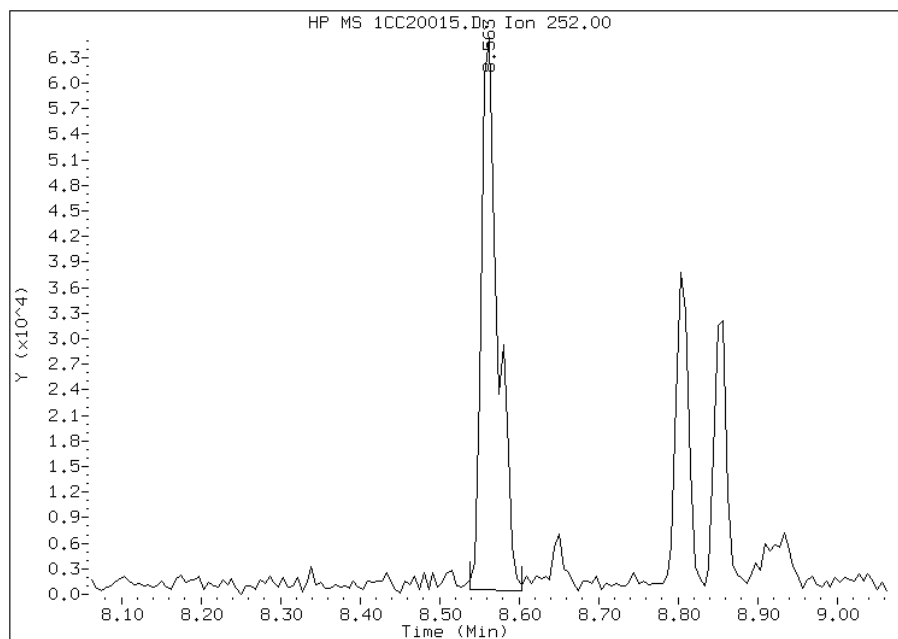
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 17:42
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20015.D
Inj. Date and Time: 20-MAR-2013 14:18
Instrument ID: BSMC5973.i
Client ID: CV0853B-GS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

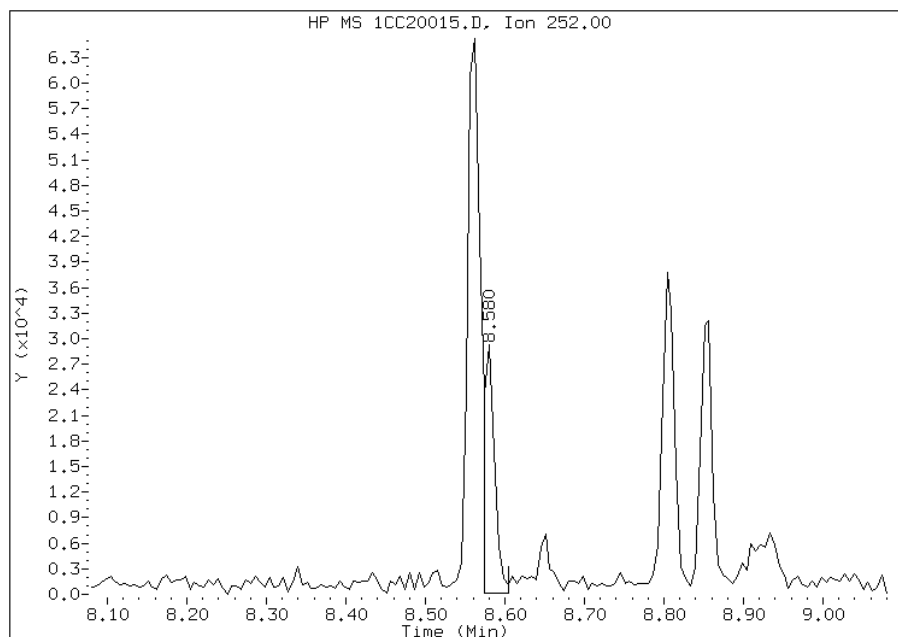
Processing Integration Results

RT: 8.56
Response: 95110
Amount: 2
Conc: 978



Manual Integration Results

RT: 8.58
Response: 27248
Amount: 1
Conc: 280



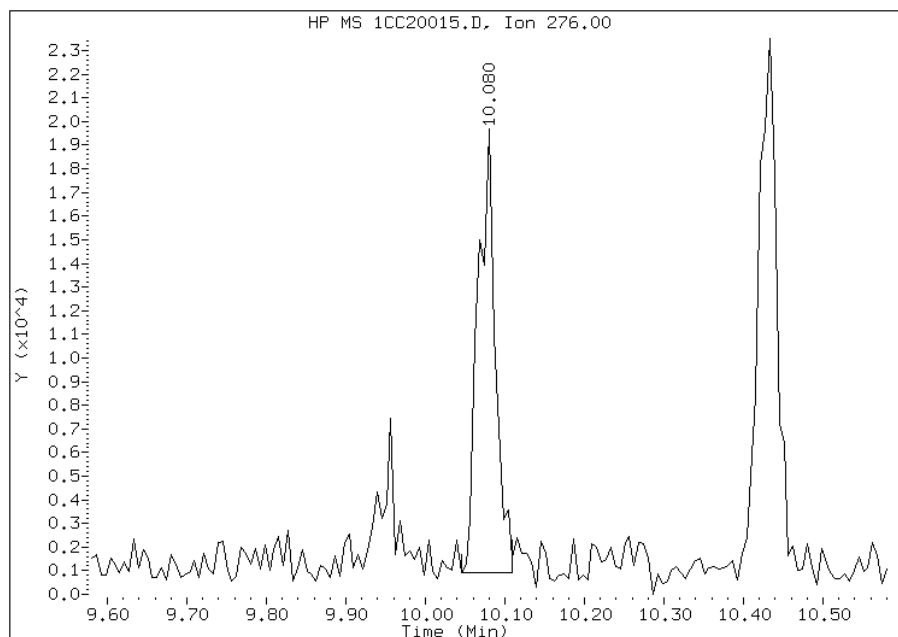
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 17:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20015.D
Inj. Date and Time: 20-MAR-2013 14:18
Instrument ID: BSMC5973.i
Client ID: CV0853B-GS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

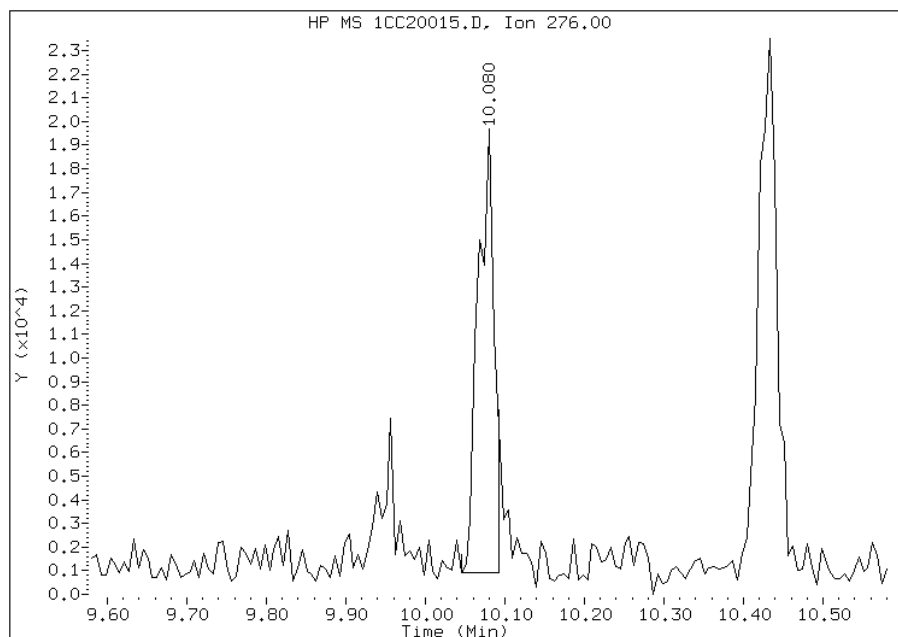
Processing Integration Results

RT: 10.08
Response: 28290
Amount: 1
Conc: 327



Manual Integration Results

RT: 10.08
Response: 26336
Amount: 1
Conc: 304



Manually Integrated By: cantins
Modification Date: 20-Mar-2013 17:43
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0910A-CS Lab Sample ID: 680-88176-9
 Matrix: Solid Lab File ID: 1CC20016.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 10:10
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.05(g) Date Analyzed: 03/20/2013 14:36
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	95	J	200	25
120-12-7	Anthracene	81		41	21
56-55-3	Benzo[a]anthracene	470		39	19
50-32-8	Benzo[a]pyrene	410		51	26
205-99-2	Benzo[b]fluoranthene	790		60	30
191-24-2	Benzo[g,h,i]perylene	390		98	22
207-08-9	Benzo[k]fluoranthene	150		39	18
218-01-9	Chrysene	840		44	22
53-70-3	Dibenz(a,h)anthracene	140		98	20
206-44-0	Fluoranthene	770		98	20
86-73-7	Fluorene	61	J	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	240		98	35
90-12-0	1-Methylnaphthalene	690		200	22
91-57-6	2-Methylnaphthalene	890		200	35
91-20-3	Naphthalene	450		200	22
85-01-8	Phenanthrene	940		39	19
129-00-0	Pyrene	700		98	18

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\1C032013.b\1CC20016.D
 Lab Smp Id: 680-88176-A-9-A Client Smp ID: CV0910A-CS
 Inj Date : 20-MAR-2013 14:36
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-9-a
 Misc Info : 680-88176-A-9-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 16
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	18.990	% 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		3.745	3.745	(1.000)	933771	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	726046	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1393302	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.027	(1.044)	38561	1.83305	601.3980	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1590707	40.0000		
* 23 Perylene-d12	264		8.909	8.909	(1.000)	1571922	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	33697	1.38616	454.7791	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	43993	2.71301	890.0993	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	30944	2.09527	687.4277	
5 Acenaphthylene	152		4.745	4.745	(0.983)	8493	0.29014	95.1912	
9 Fluorene	166		5.168	5.169	(1.071)	4284	0.18618	61.0835(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	115285	2.86151	938.8203	
12 Anthracene	178		5.827	5.827	(1.008)	9750	0.24745	81.1854	
13 Carbazole	167		5.933	5.933	(1.026)	10292	0.29385	96.4063(Q)	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.633	6.633	(1.148)	103195	2.33894	767.3726
16 Pyrene	202	6.798	6.798	(0.880)	91069	2.13037	698.9434
17 Benzo(a)anthracene	228	7.709	7.715	(0.998)	66291	1.44391	473.7245
19 Chrysene	228	7.739	7.739	(1.002)	117446	2.55621	838.6551
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	99123	2.41292	791.6425
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.963)	19547	0.46384	152.1784(QM)
22 Benzo(a)pyrene	252	8.851	8.857	(0.993)	49949	1.25178	410.6915
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	27169	0.72380	237.4672(M)
25 Dibenzo(a,h)anthracene	278	10.080	10.098	(1.131)	16076	0.43784	143.6503(M)
26 Benzo(g,h,i)perylene	276	10.427	10.433	(1.170)	46533	1.18505	388.7984

QC Flag Legend

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

Data File: 1CC20016.D

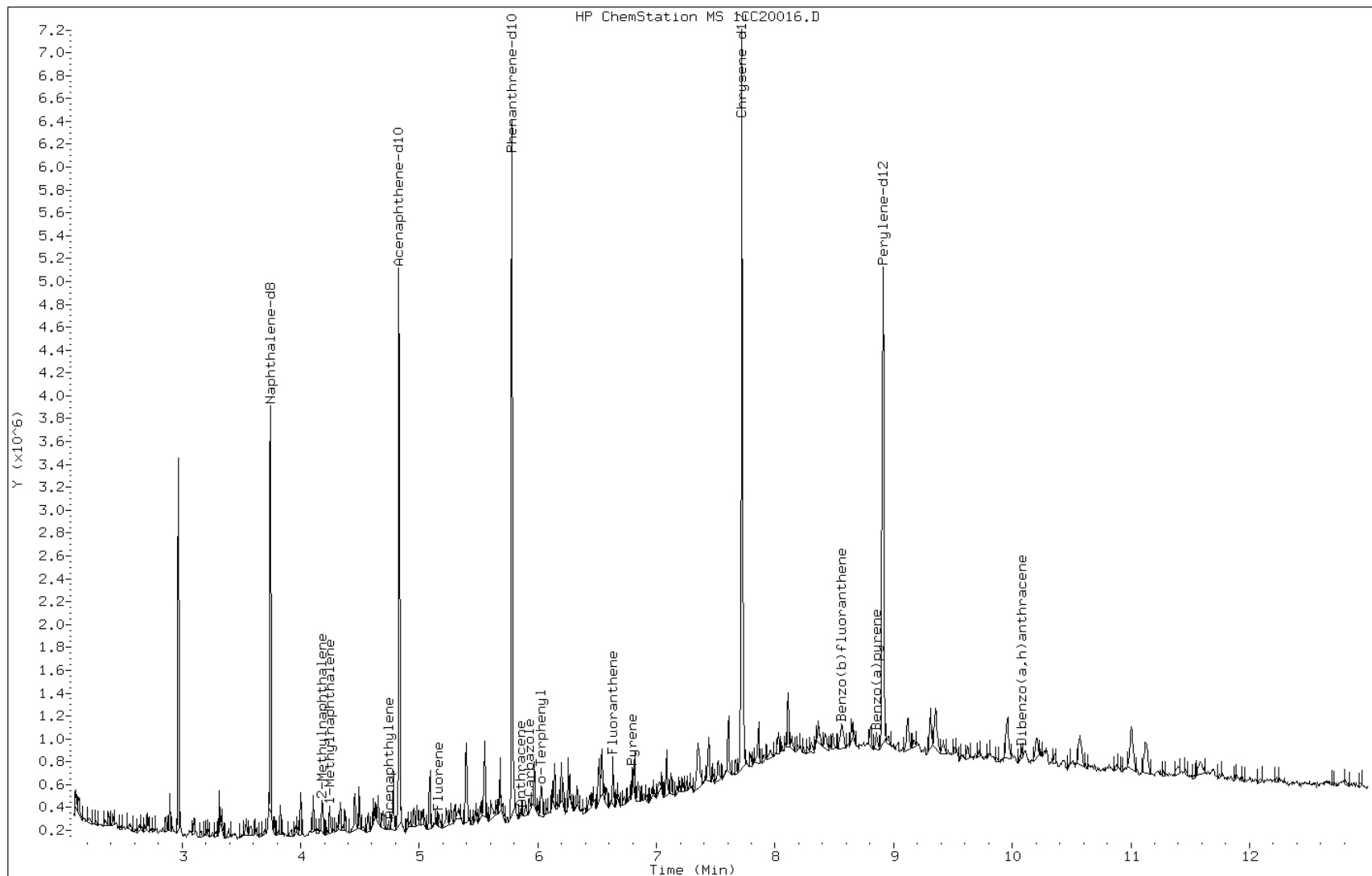
Date: 20-MAR-2013 14:36

Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

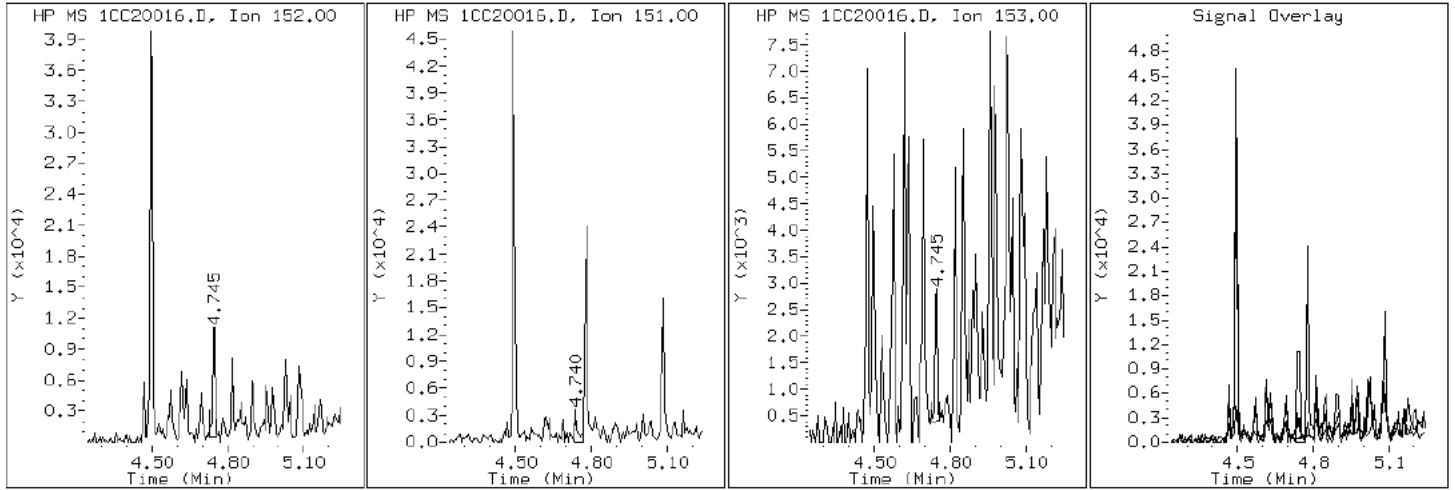
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

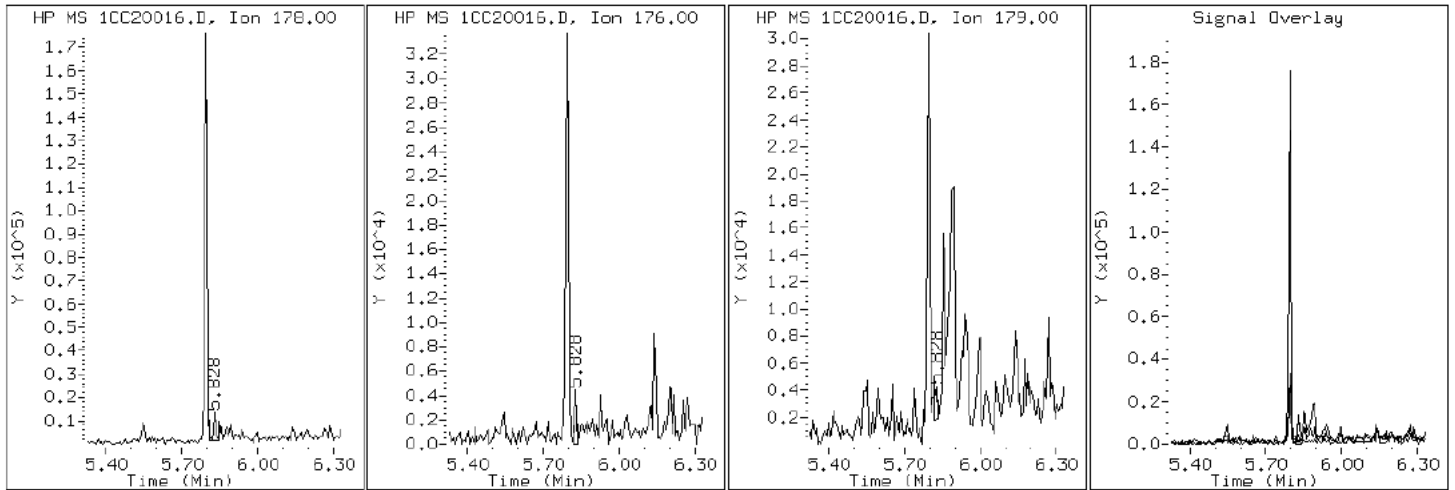
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

12 Anthracene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

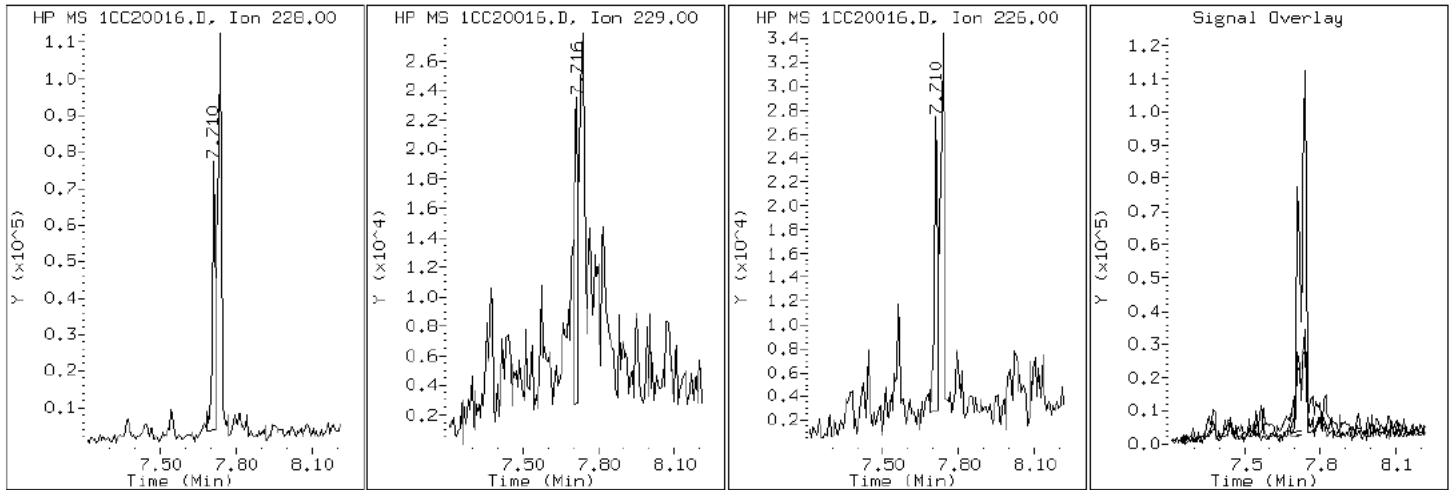
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

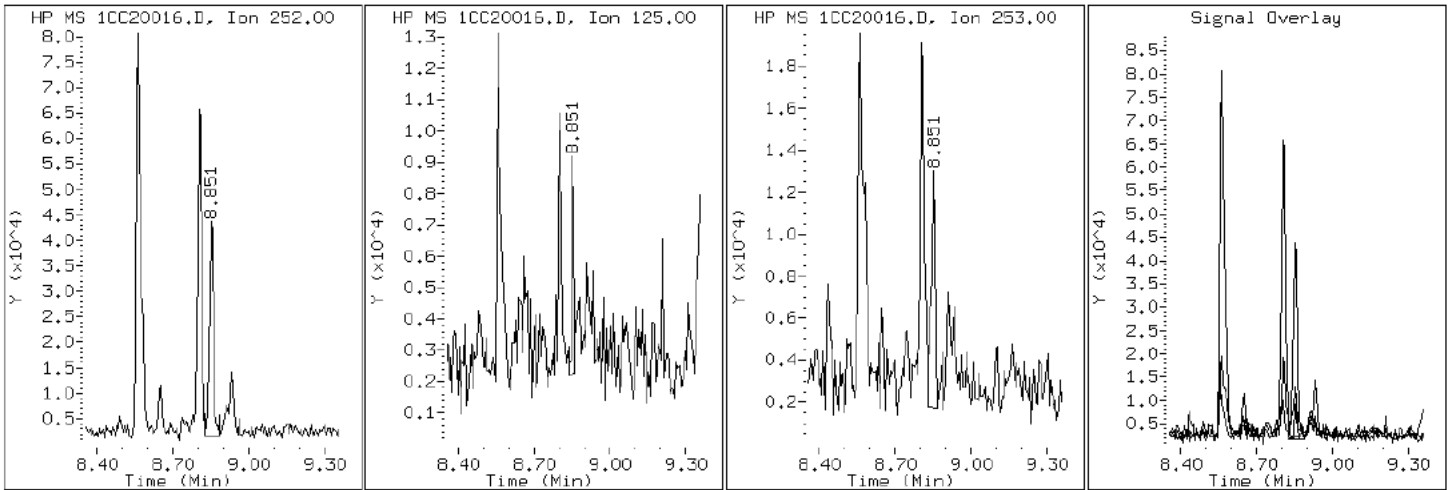
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

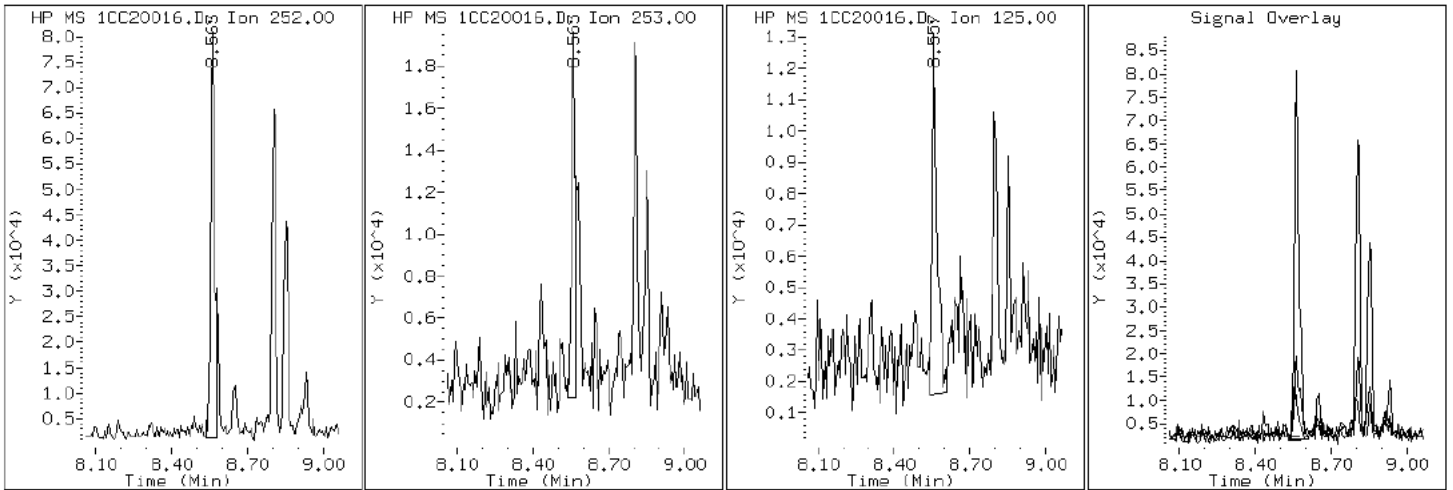
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

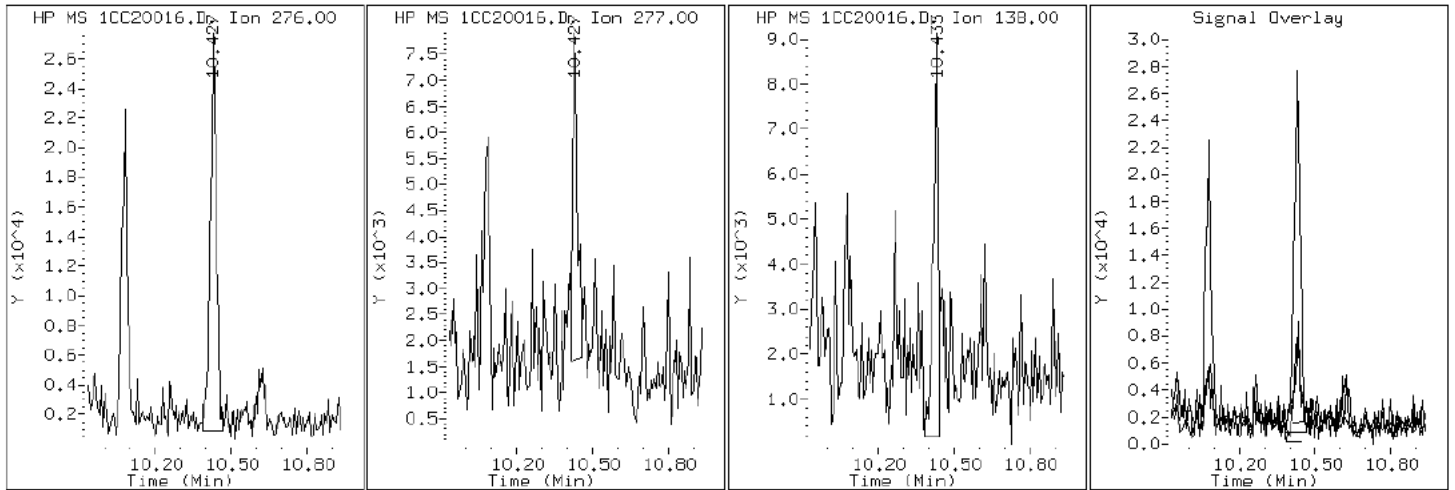
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

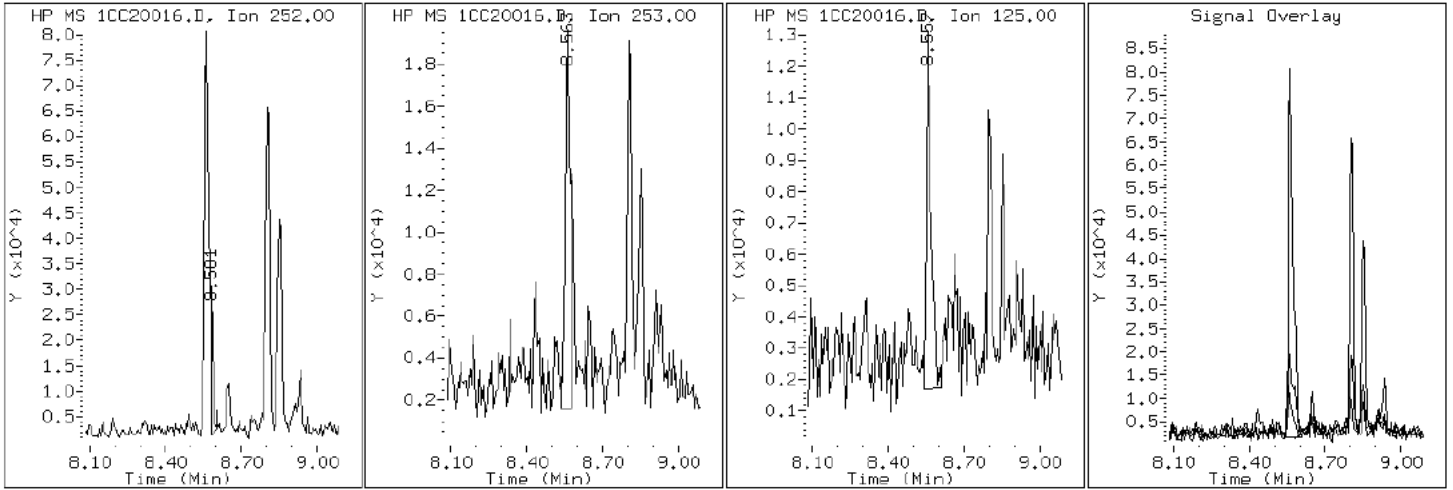
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

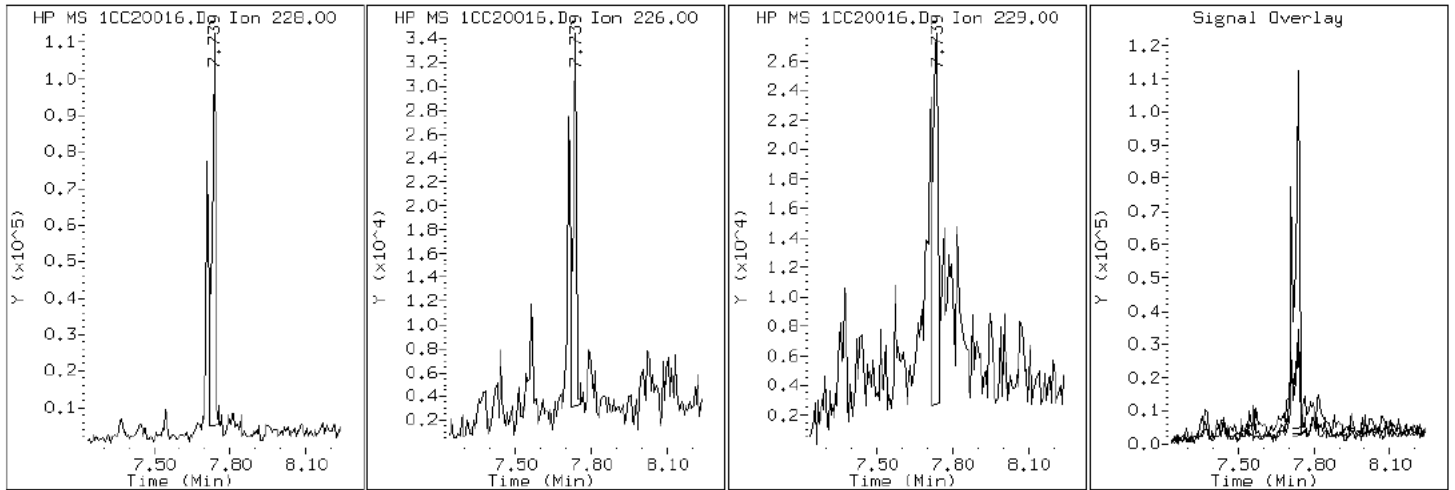
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

19 Chrysene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

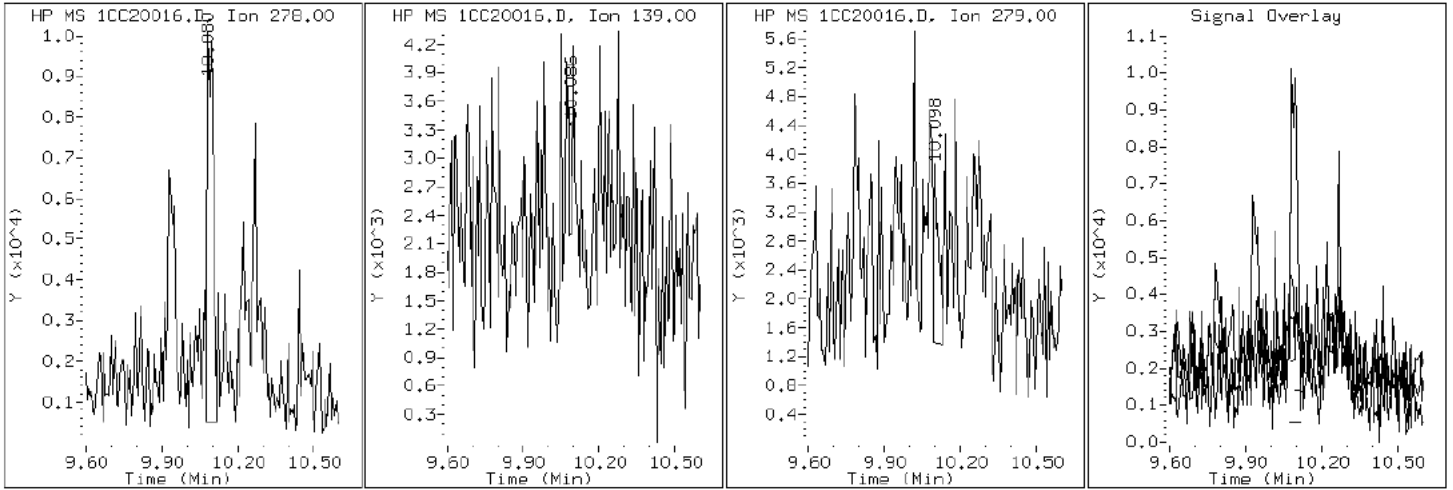
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

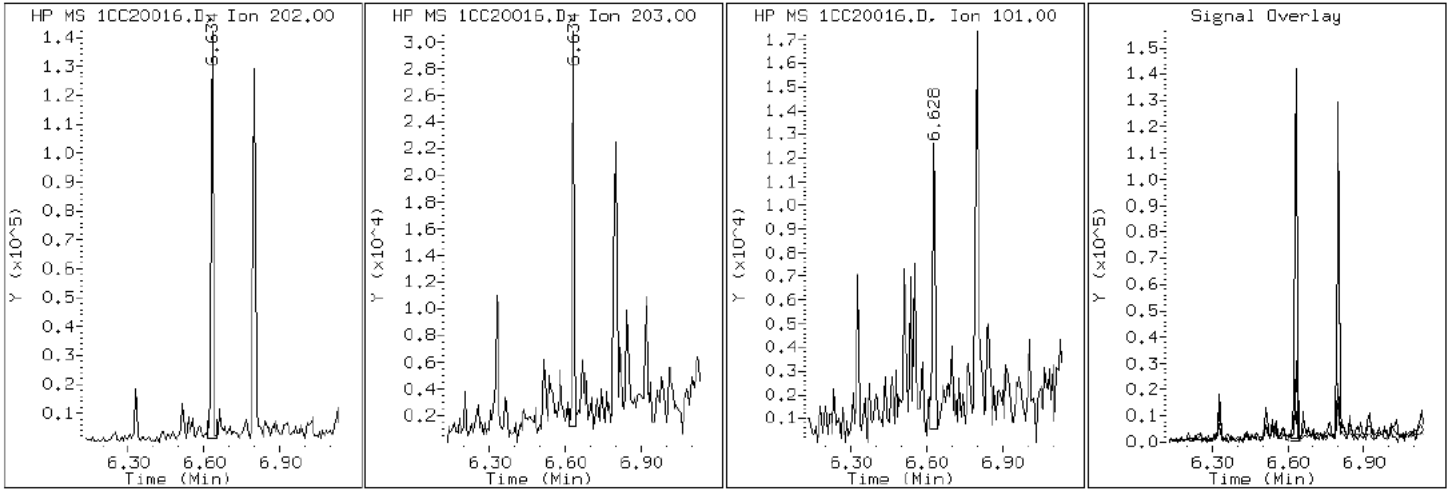
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

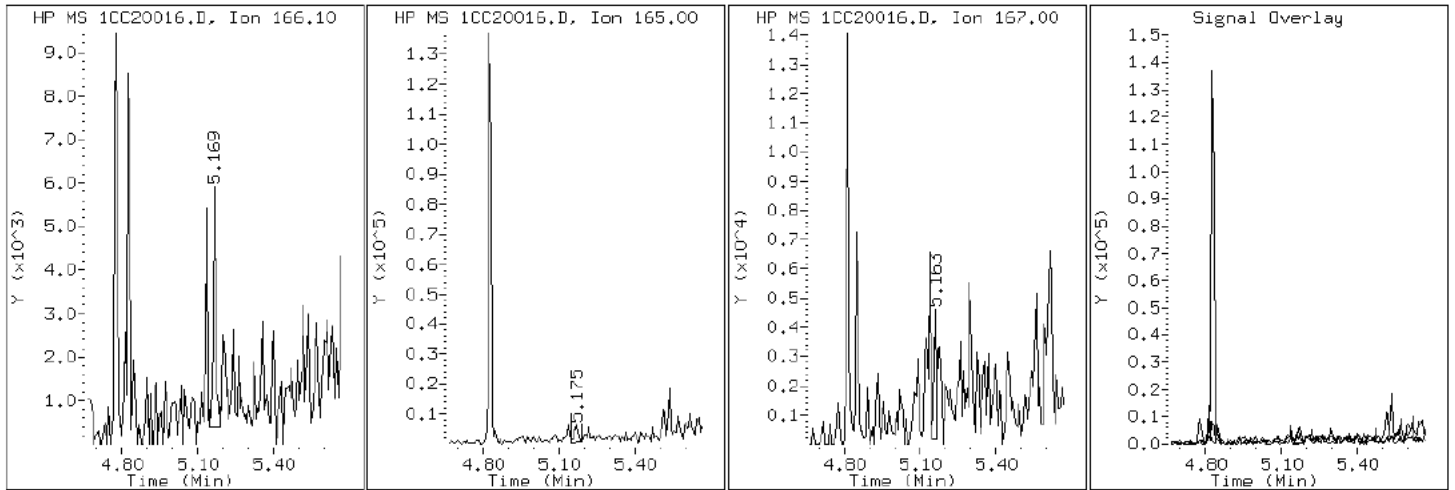
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

9 Fluorene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

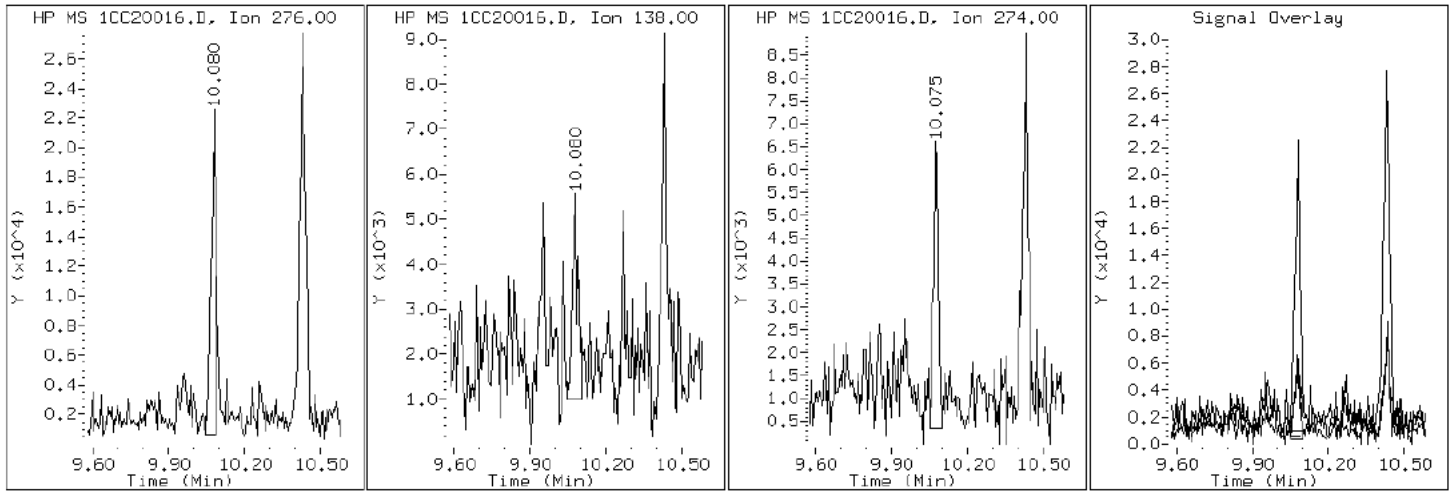
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

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



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

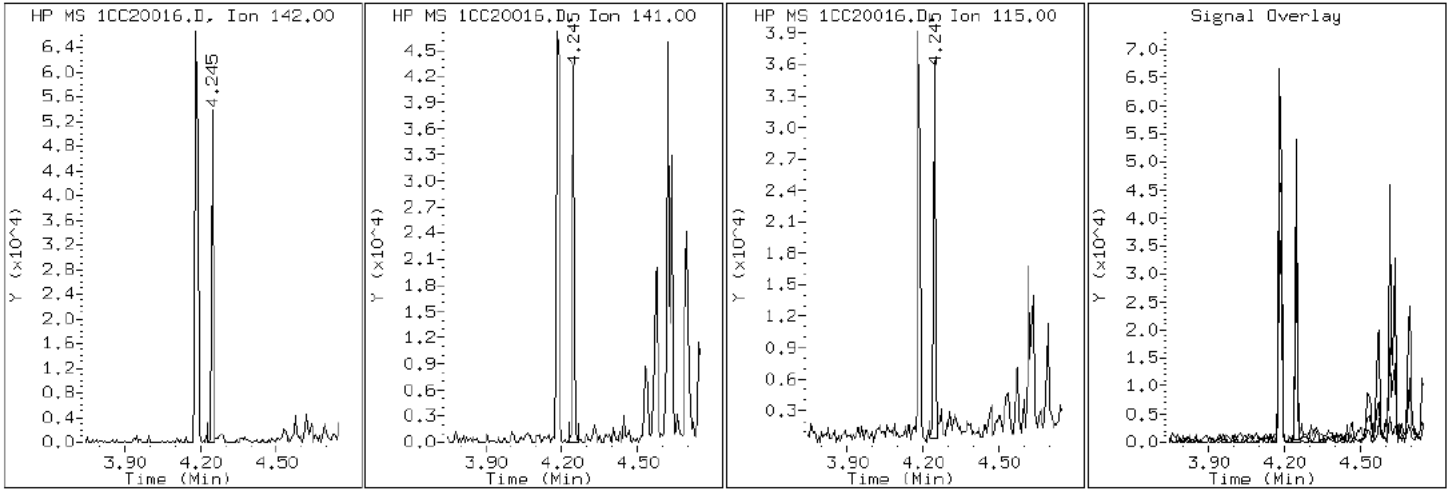
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

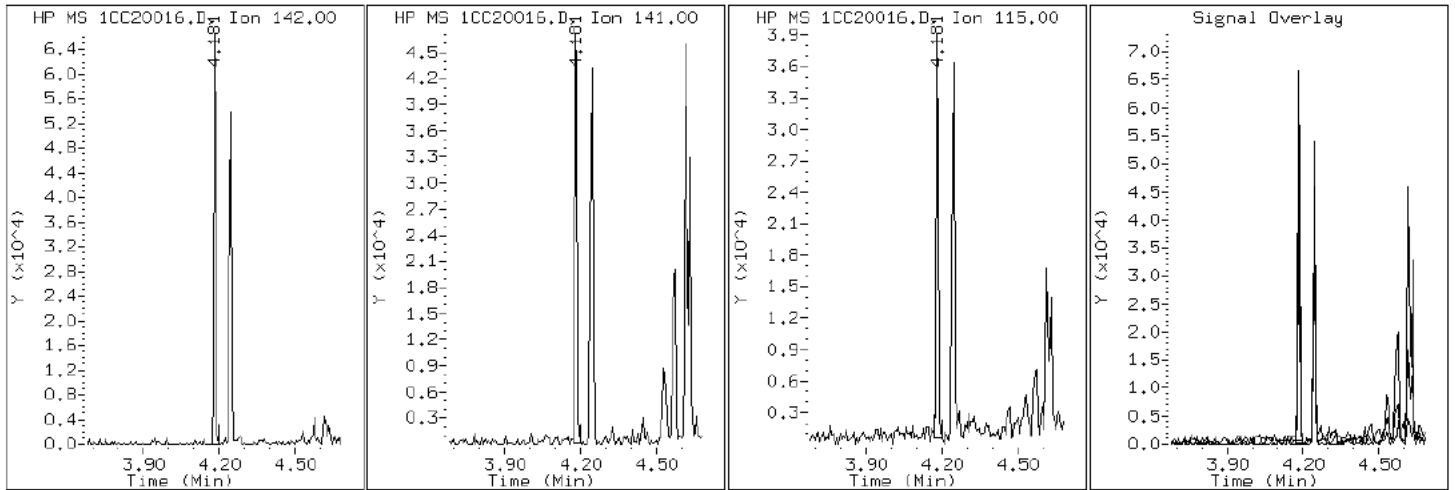
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

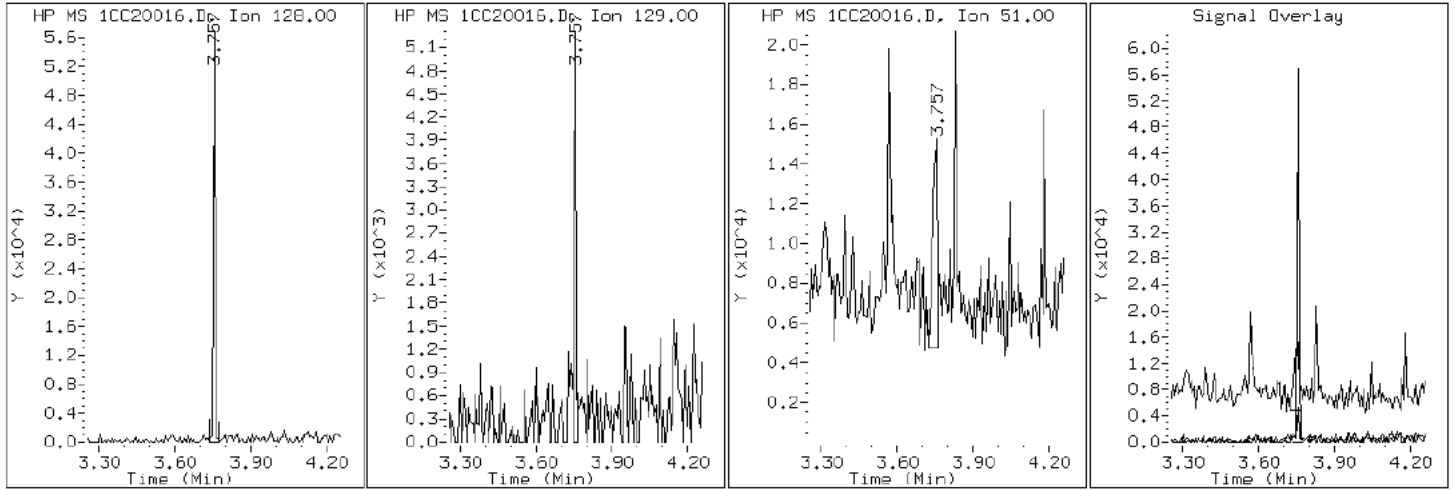
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

2 Naphthalene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

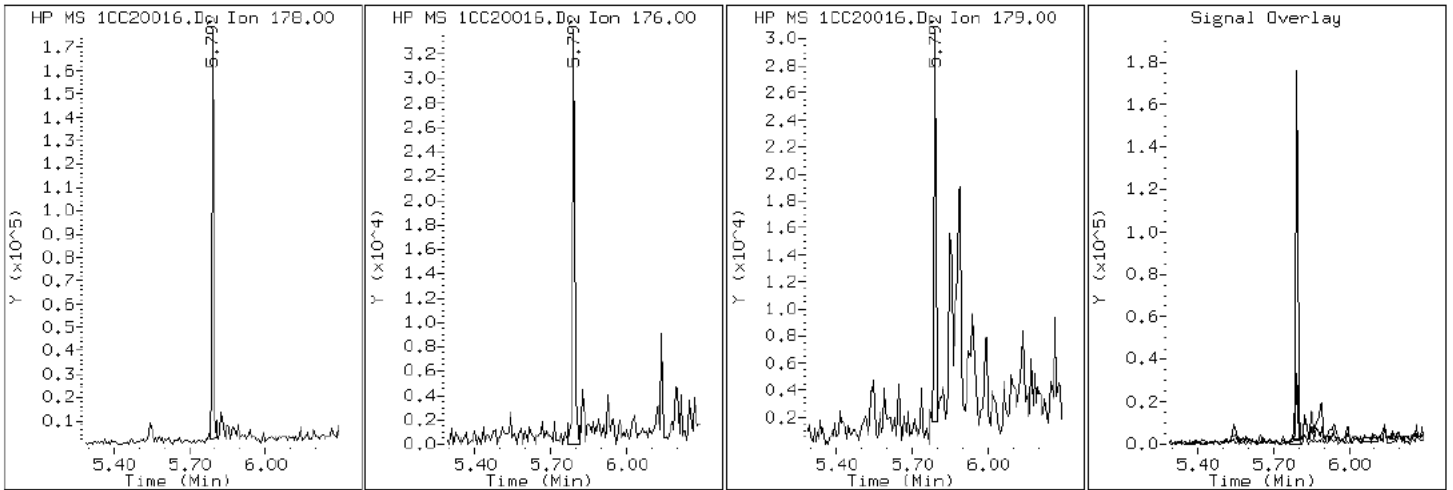
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20016.D

Date: 20-MAR-2013 14:36

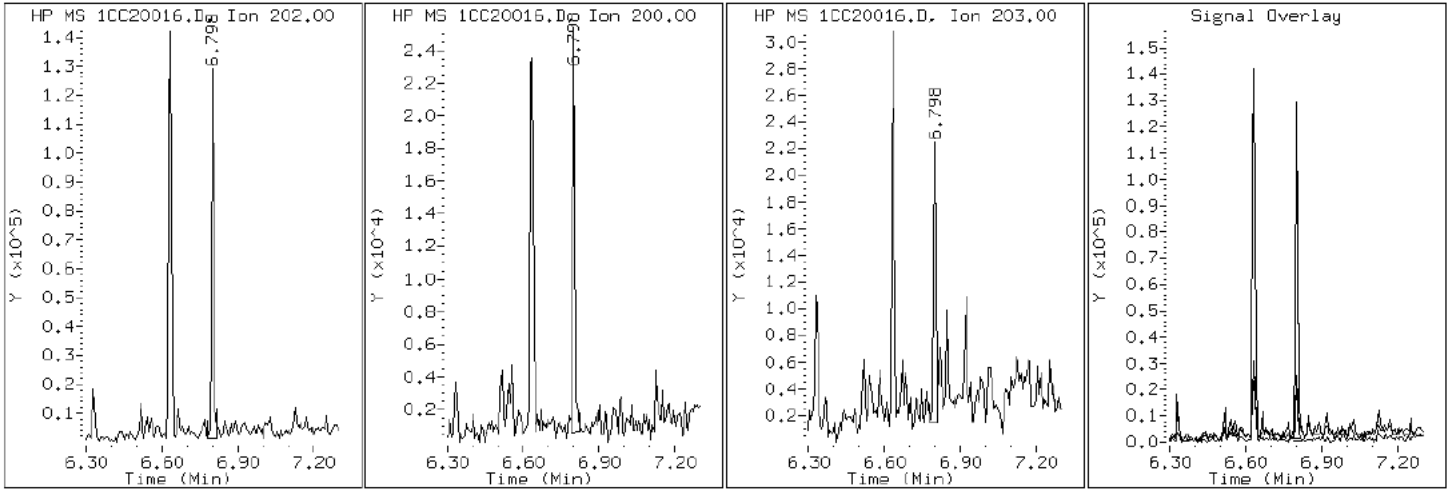
Client ID: CV0910A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-9-a

Operator: SCC

16 Pyrene

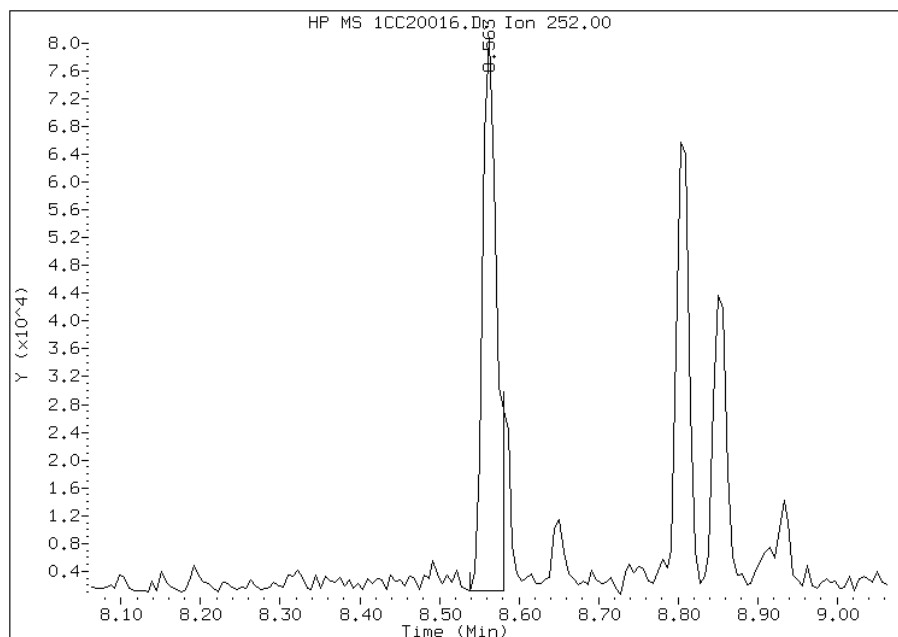


Manual Integration Report

Data File: 1CC20016.D
Inj. Date and Time: 20-MAR-2013 14:36
Instrument ID: BSMC5973.i
Client ID: CV0910A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

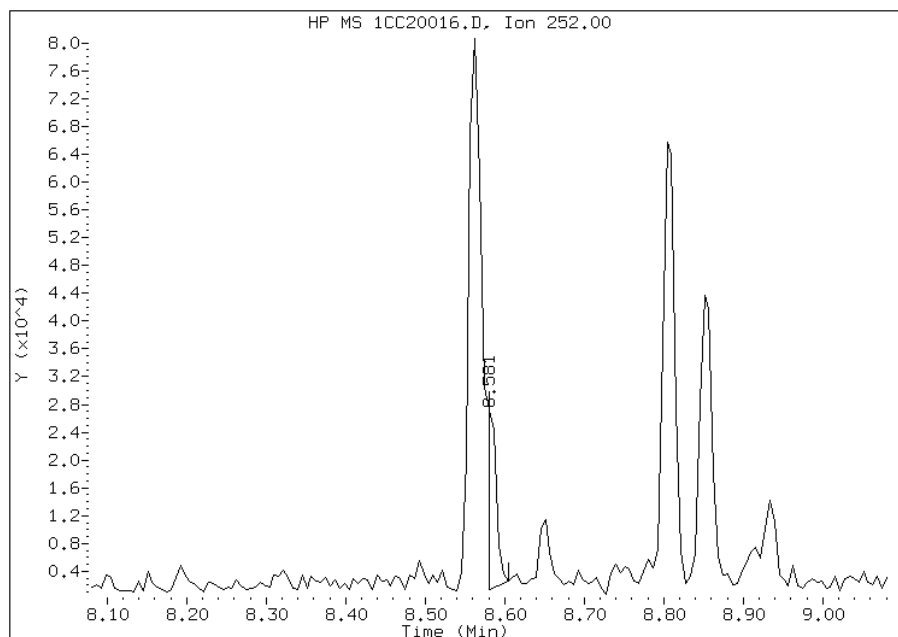
Processing Integration Results

RT: 8.56
Response: 99123
Amount: 2
Conc: 772



Manual Integration Results

RT: 8.58
Response: 19547
Amount: 0
Conc: 152



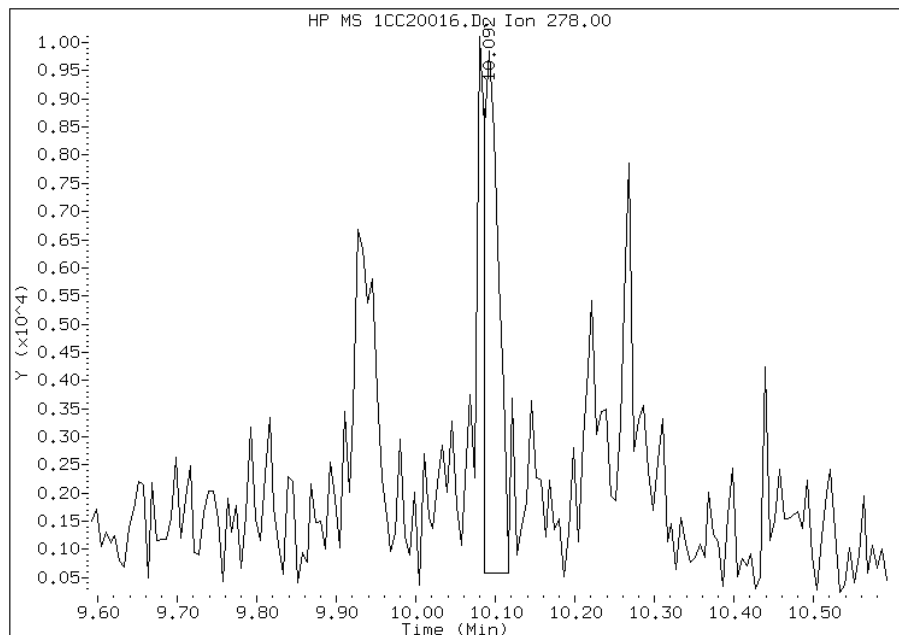
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 17:44
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CC20016.D
Inj. Date and Time: 20-MAR-2013 14:36
Instrument ID: BSMC5973.i
Client ID: CV0910A-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 03/21/2013

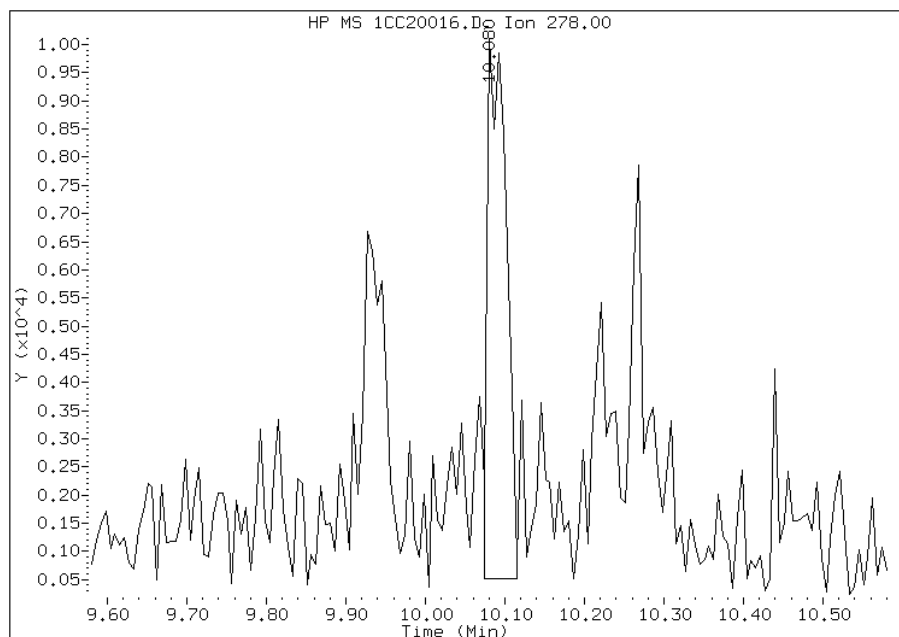
Processing Integration Results

RT: 10.09
Response: 11927
Amount: 0
Conc: 107



Manual Integration Results

RT: 10.08
Response: 16076
Amount: 0
Conc: 144



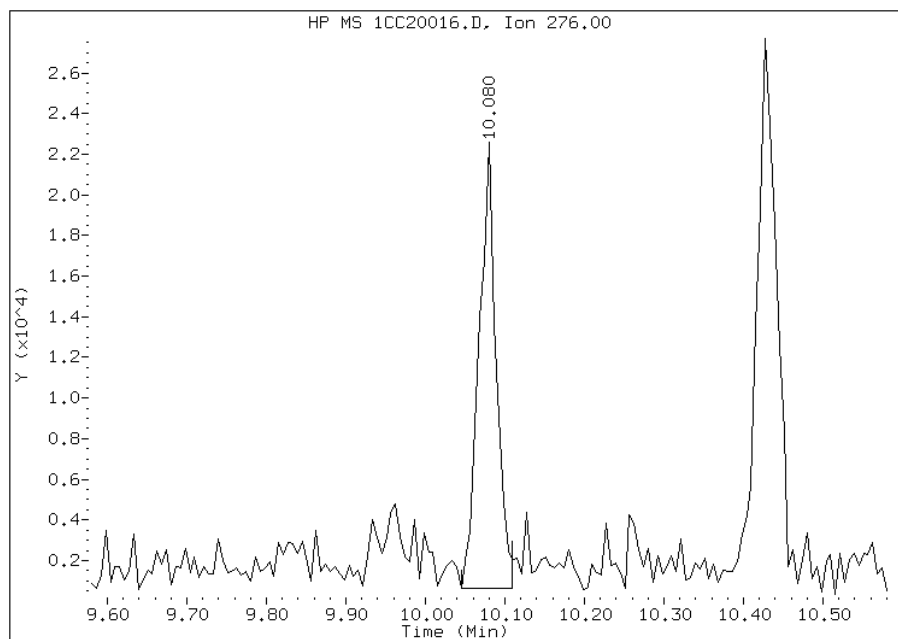
Manually Integrated By: cantins
Modification Date: 20-Mar-2013 17:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20016.D
Inj. Date and Time: 20-MAR-2013 14:36
Instrument ID: BSMC5973.i
Client ID: CV0910A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

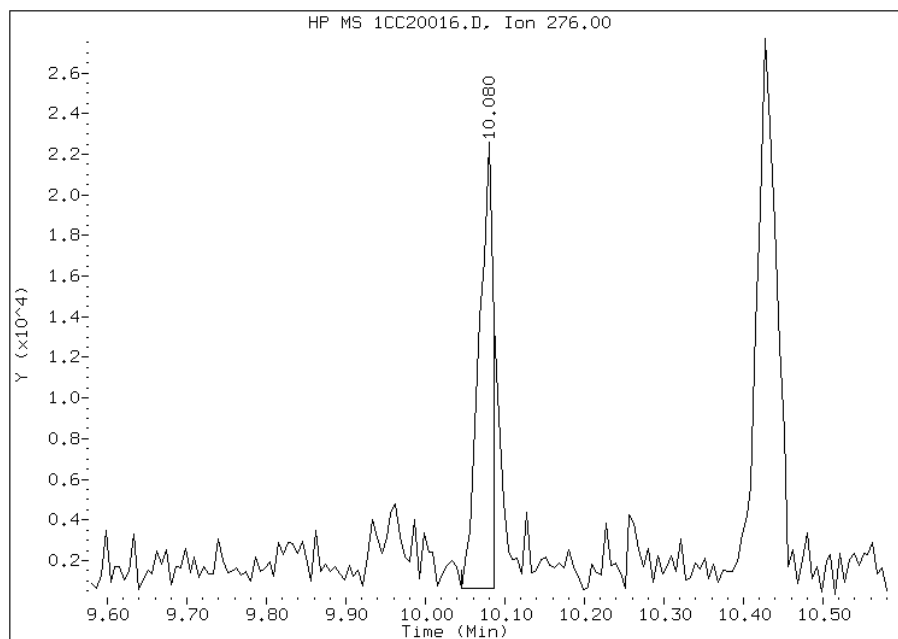
Processing Integration Results

RT: 10.08
Response: 32838
Amount: 1
Conc: 287



Manual Integration Results

RT: 10.08
Response: 27169
Amount: 1
Conc: 237



Manually Integrated By: cantins
Modification Date: 20-Mar-2013 17:45
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0910B-CS Lab Sample ID: 680-88176-10
 Matrix: Solid Lab File ID: 1CC20017.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 10:20
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 14.94 (g) Date Analyzed: 03/20/2013 14:55
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 20.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	19	J	51	6.3
120-12-7	Anthracene	26		11	5.3
56-55-3	Benzo[a]anthracene	180		10	4.9
50-32-8	Benzo[a]pyrene	140		13	6.6
205-99-2	Benzo[b]fluoranthene	300		15	7.7
191-24-2	Benzo[g,h,i]perylene	150		25	5.6
207-08-9	Benzo[k]fluoranthene	73		10	4.6
218-01-9	Chrysene	300		11	5.7
53-70-3	Dibenz(a,h)anthracene	47		25	5.2
206-44-0	Fluoranthene	220		25	5.1
86-73-7	Fluorene	31		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	67		25	9.0
90-12-0	1-Methylnaphthalene	270		51	5.6
91-57-6	2-Methylnaphthalene	330		51	9.0
91-20-3	Naphthalene	180		51	5.6
85-01-8	Phenanthrene	390		10	4.9
129-00-0	Pyrene	210		25	4.7

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20017.D
 Lab Smp Id: 680-88176-A-10-A Client Smp ID: CV0910B-CS
 Inj Date : 20-MAR-2013 14:55
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-10-a
 Misc Info : 680-88176-A-10-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 17
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.940	Weight Extracted
M	20.747	% 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		3.745	3.745	(1.000)	960403	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	735633	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1354869	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	116211	5.68096	479.7943	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1530848	40.0000		
* 23 Perylene-d12	264		8.915	8.909	(1.000)	1412526	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	52078	2.08288	175.9124	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	65240	3.91173	330.3710	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	49091	3.23186	272.9515	
5 Acenaphthylene	152		4.745	4.745	(0.983)	6728	0.22685	19.1589(Q)	
9 Fluorene	166		5.168	5.169	(1.071)	8484	0.36391	30.7343(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	181980	4.64509	392.3083	
12 Anthracene	178		5.827	5.827	(1.008)	11704	0.30547	25.7989	
13 Carbazole	167		5.939	5.933	(1.027)	11795	0.34631	29.2481	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.633	6.633	(1.148)	111854	2.60712	220.1878
16 Pyrene	202	6.798	6.798	(0.880)	103347	2.51212	212.1649
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	96214	2.17761	183.9136
19 Chrysene	228	7.739	7.739	(1.002)	156554	3.54063	299.0292
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.960)	129976	3.52100	297.3710
21 Benzo(k)fluoranthene	252	8.586	8.586	(0.963)	32713	0.86386	72.9582(Q)
22 Benzo(a)pyrene	252	8.856	8.857	(0.993)	60613	1.69045	142.7695
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	26885	0.79705	67.3163(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.098	(1.132)	18385	0.55724	47.0623
26 Benzo(g,h,i)perylene	276	10.439	10.433	(1.171)	64396	1.82503	154.1356

QC Flag Legend

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

Data File: 1CC20017.D

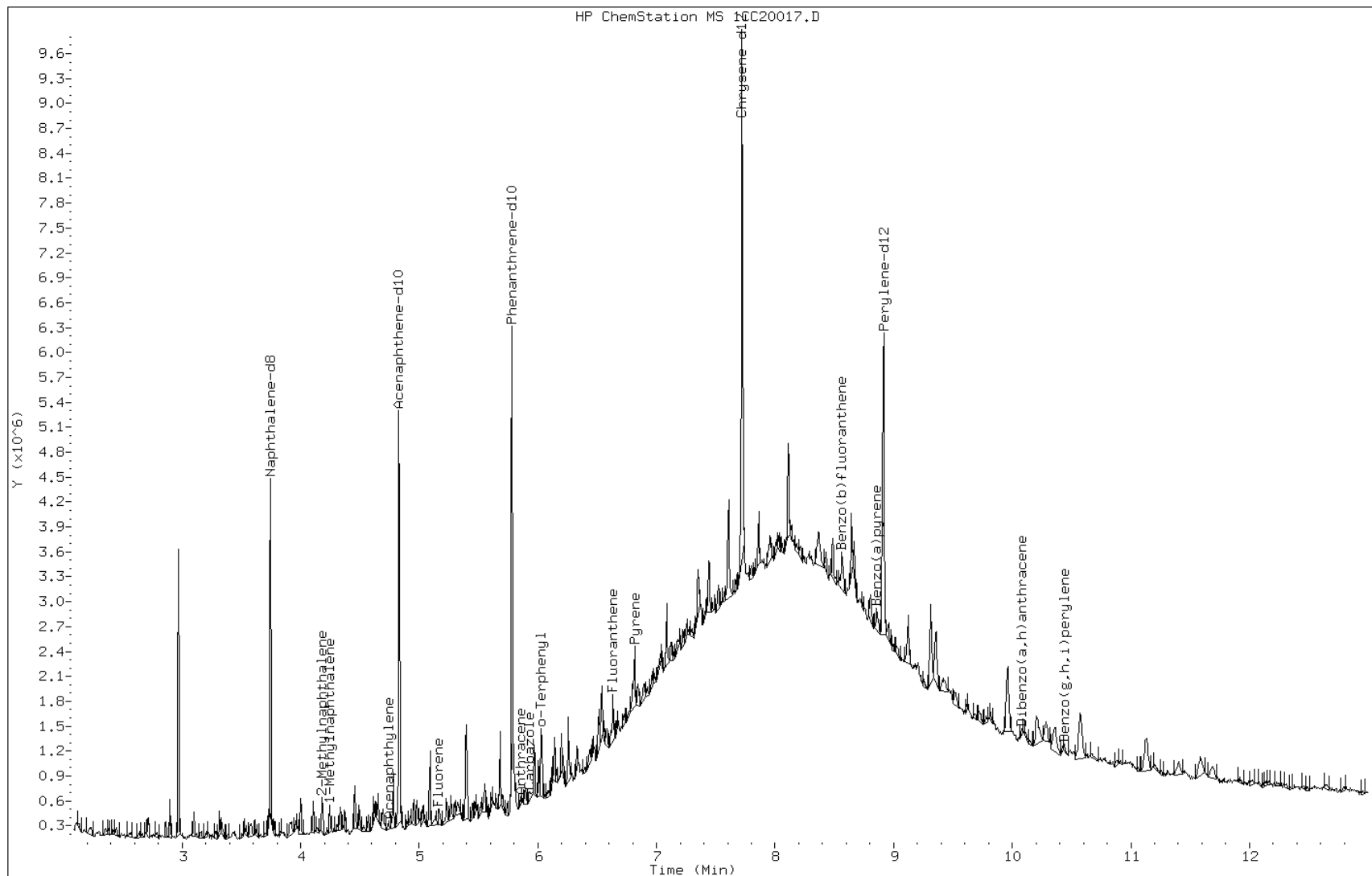
Date: 20-MAR-2013 14:55

Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

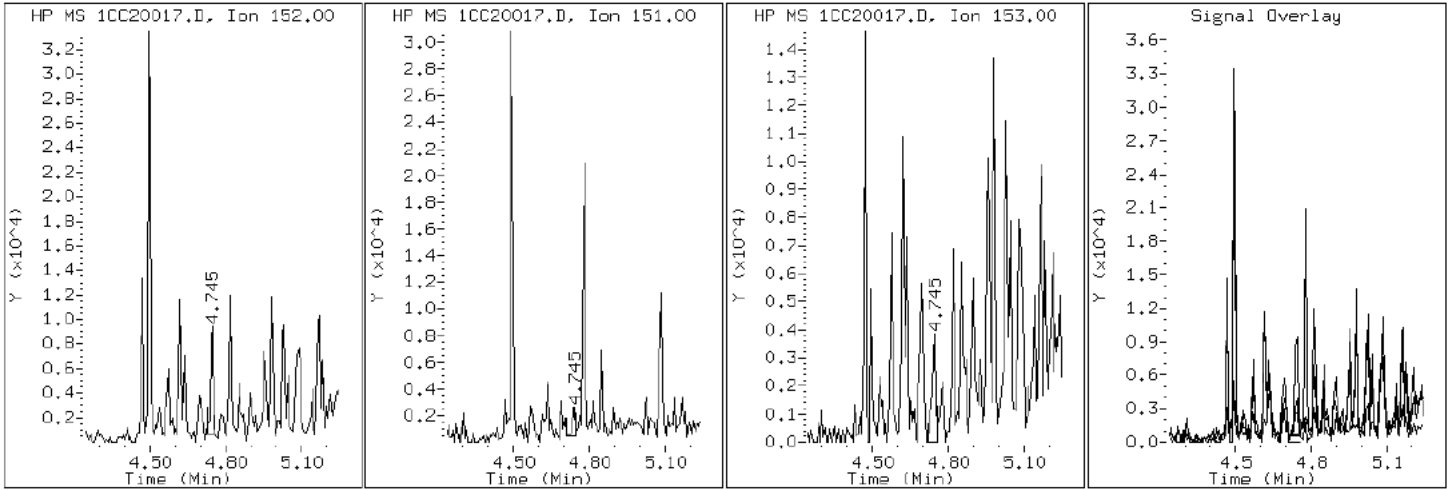
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

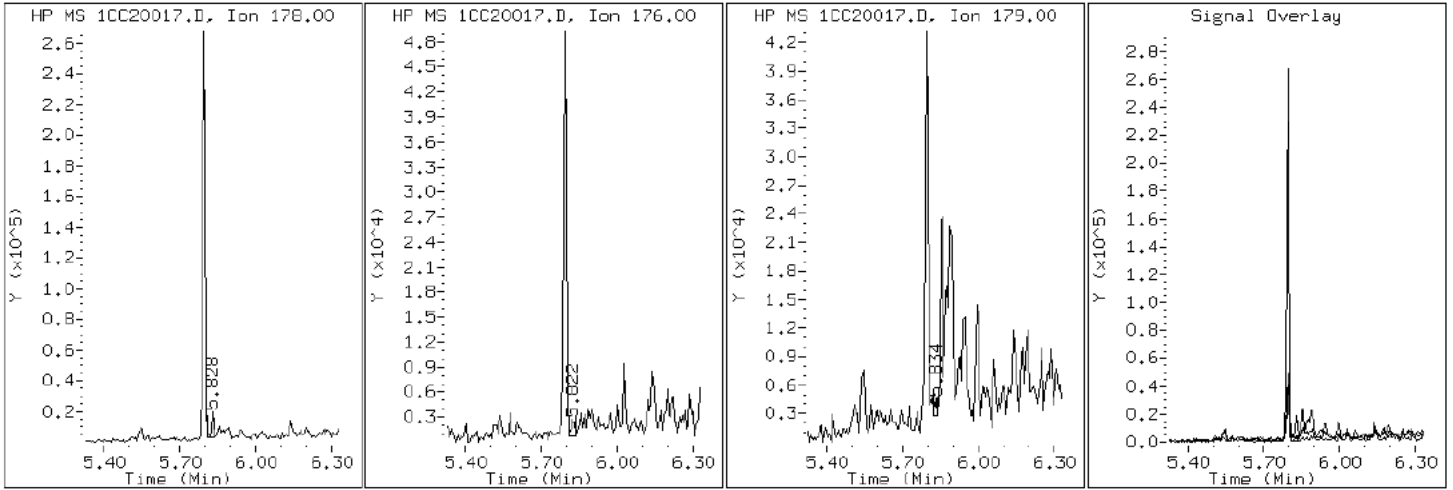
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

12 Anthracene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

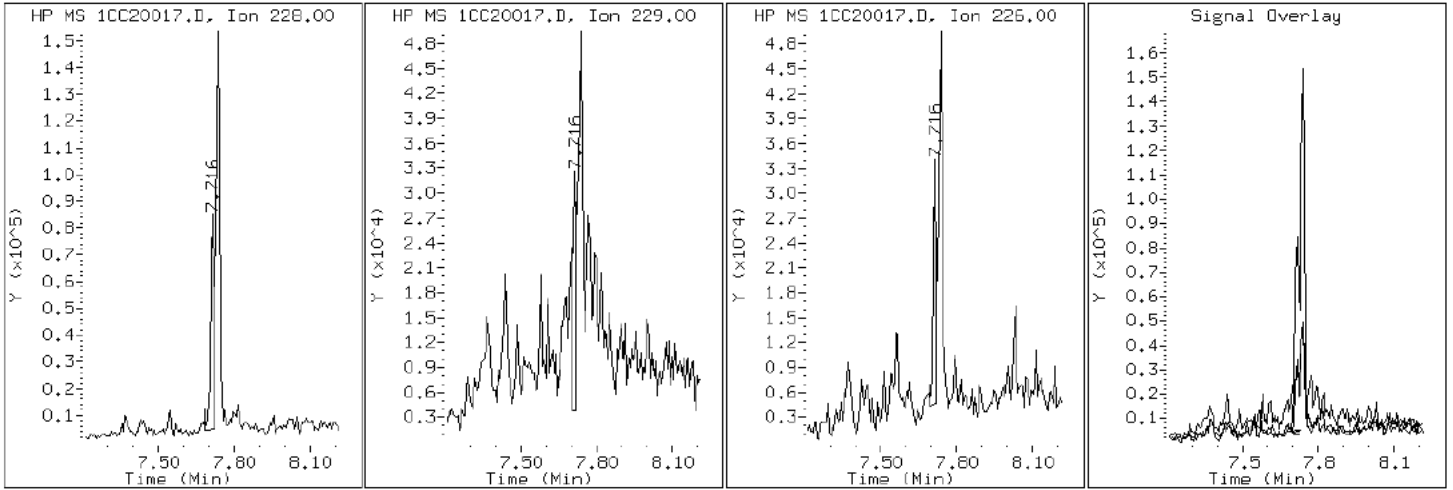
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

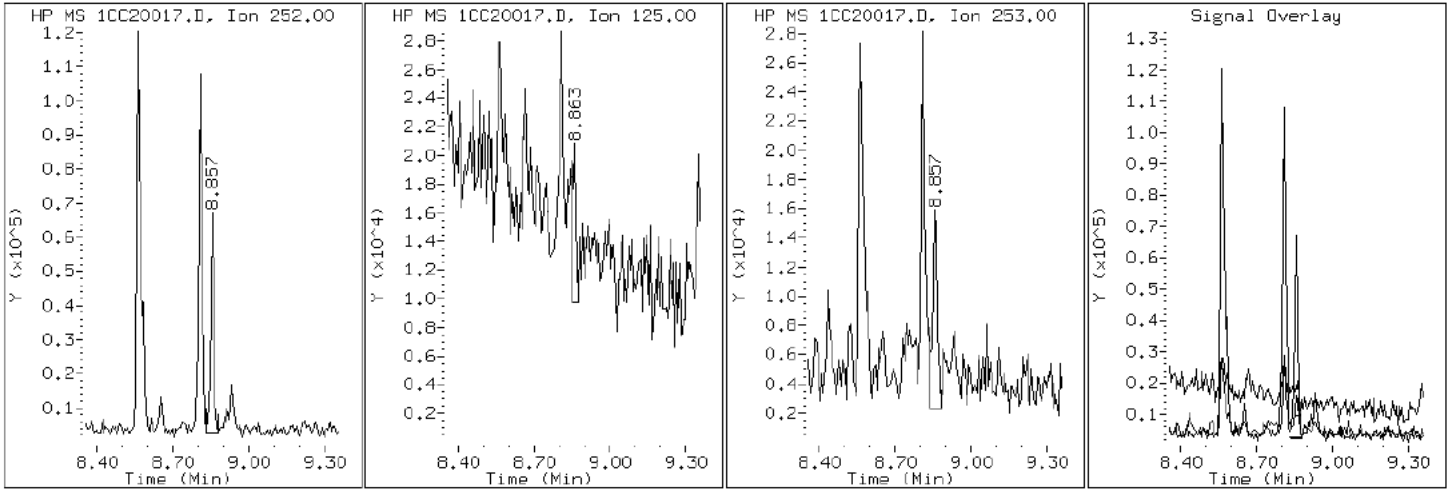
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

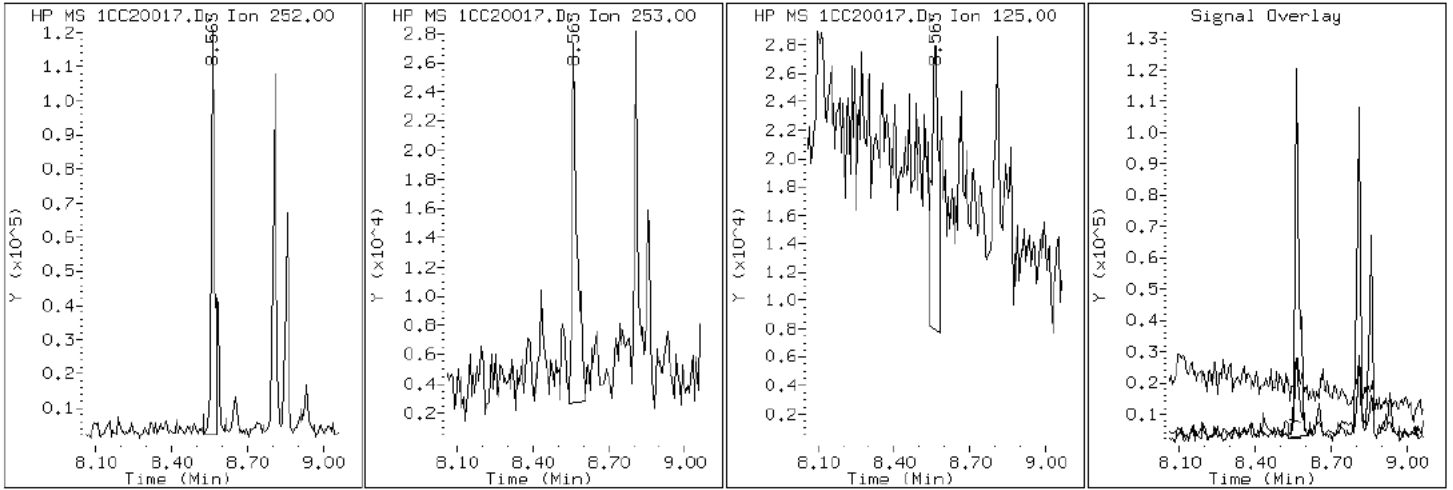
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

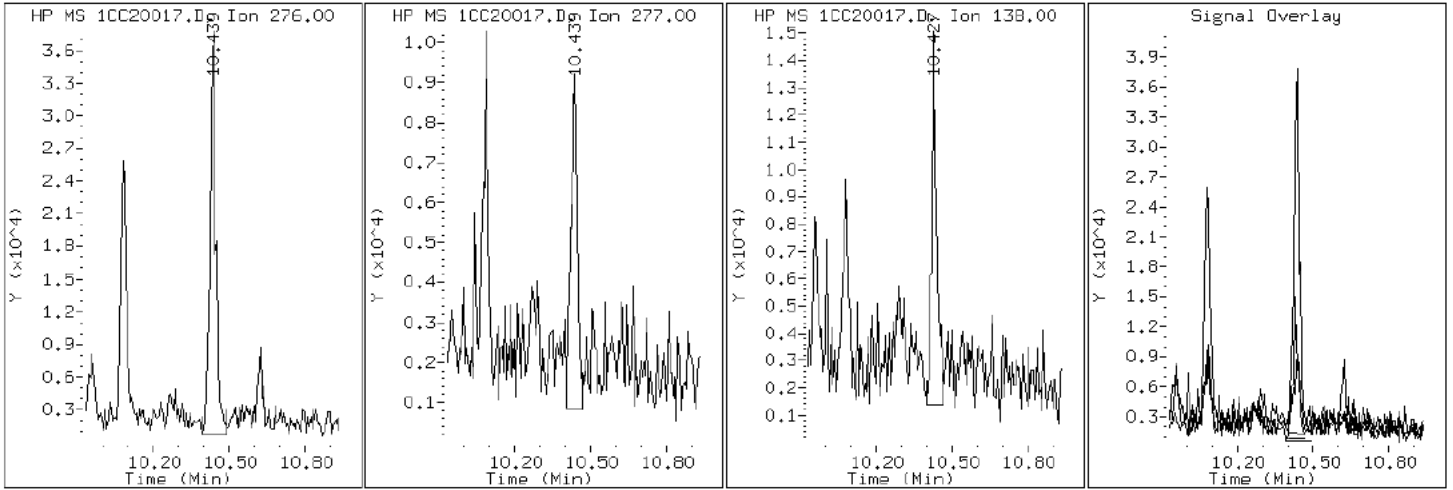
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

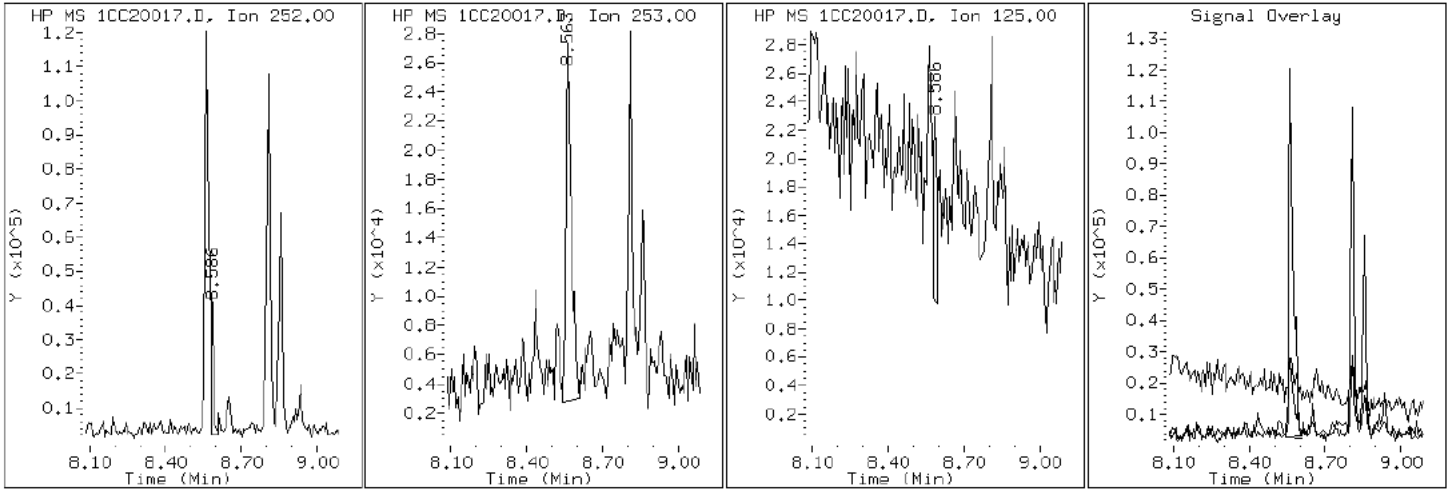
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

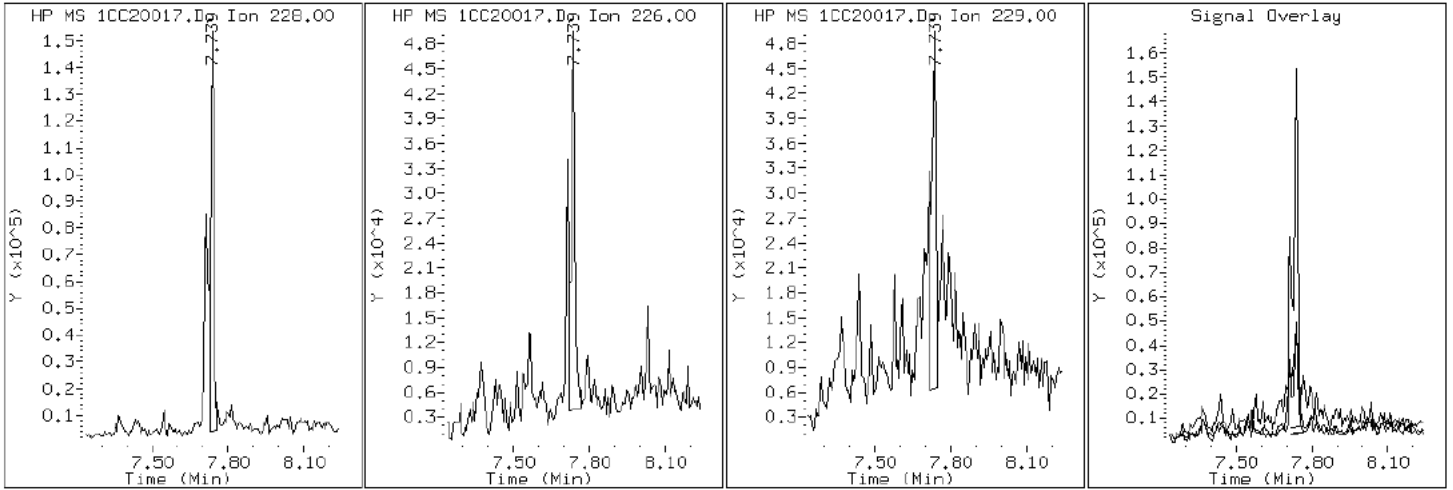
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

19 Chrysene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

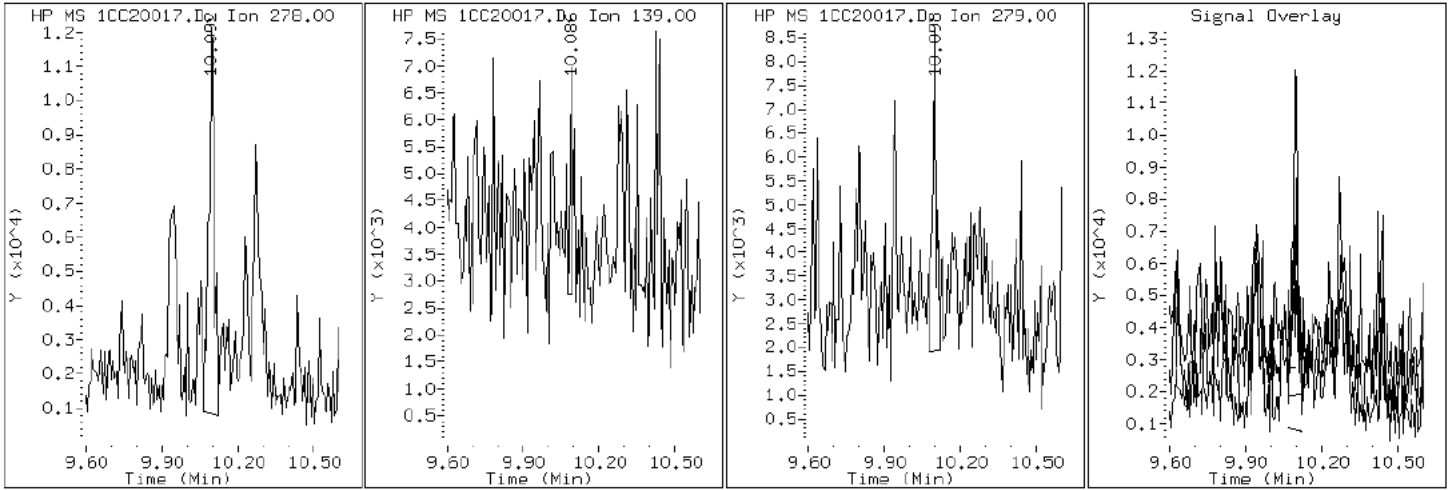
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

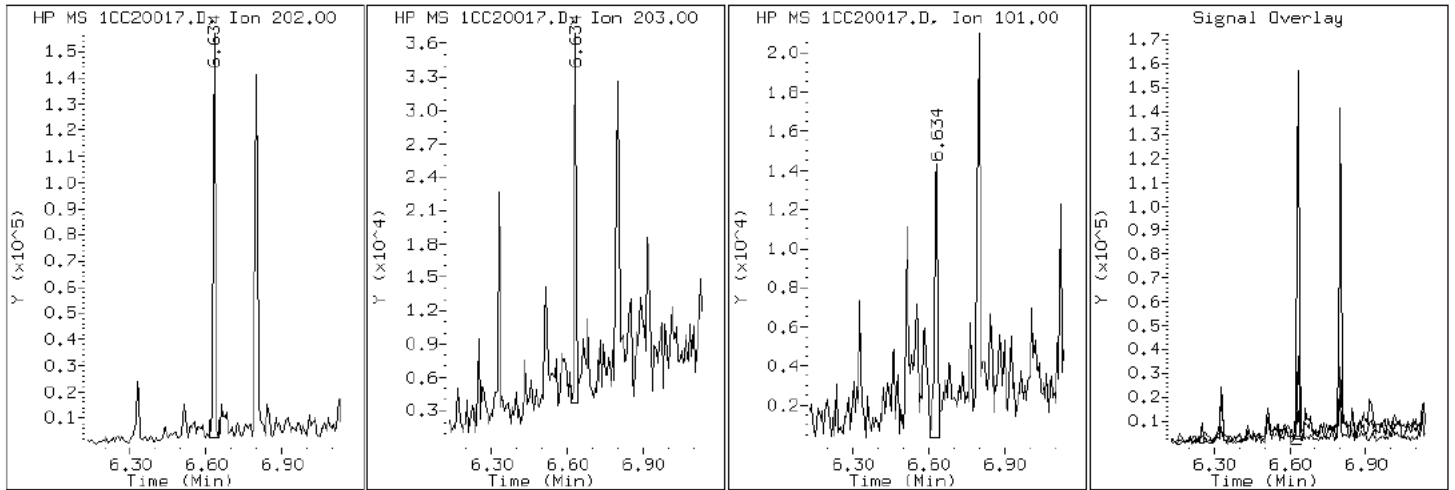
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

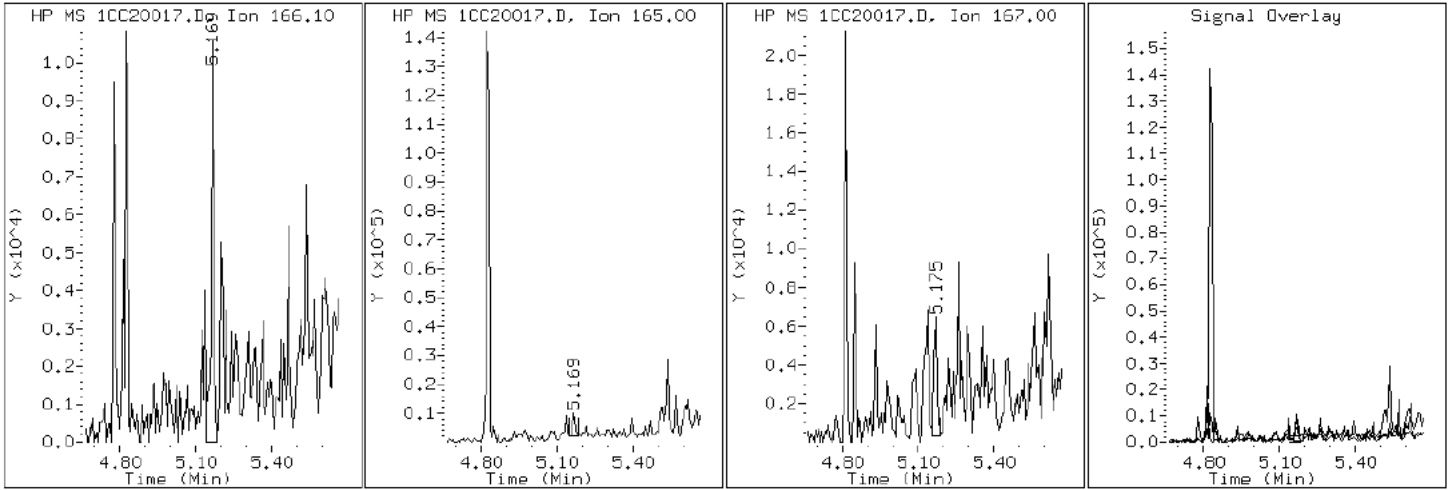
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

9 Fluorene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

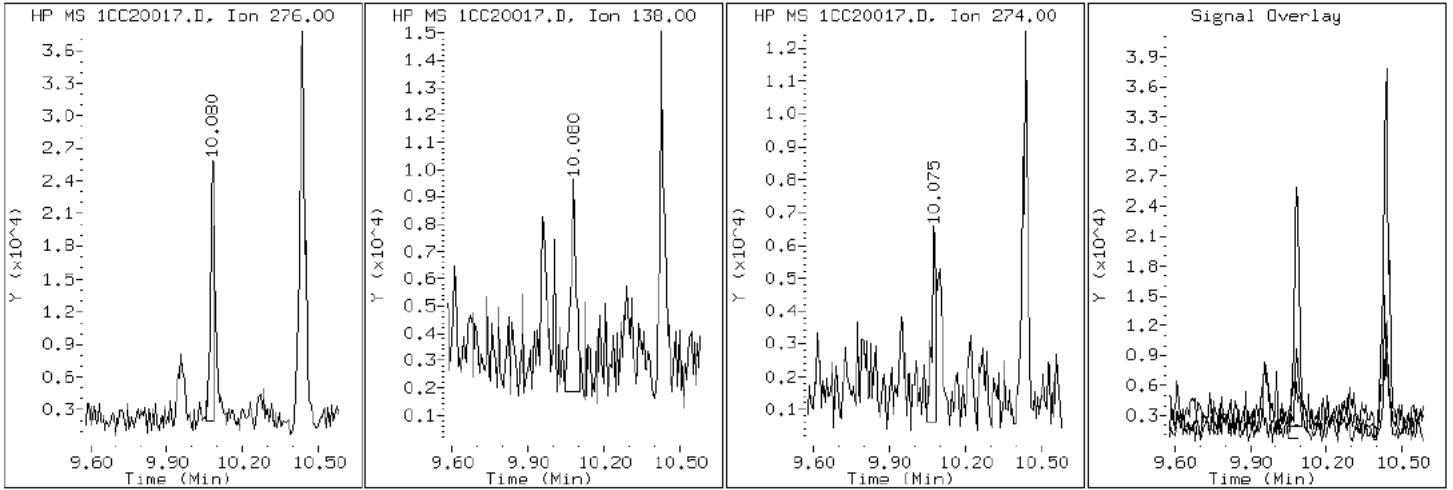
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

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



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

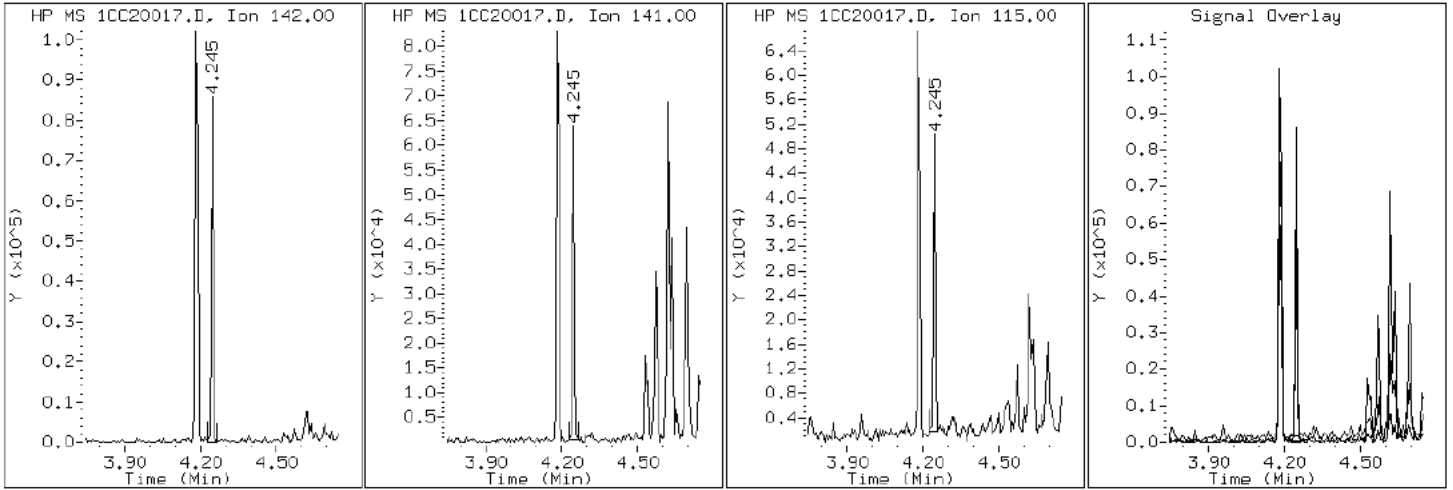
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

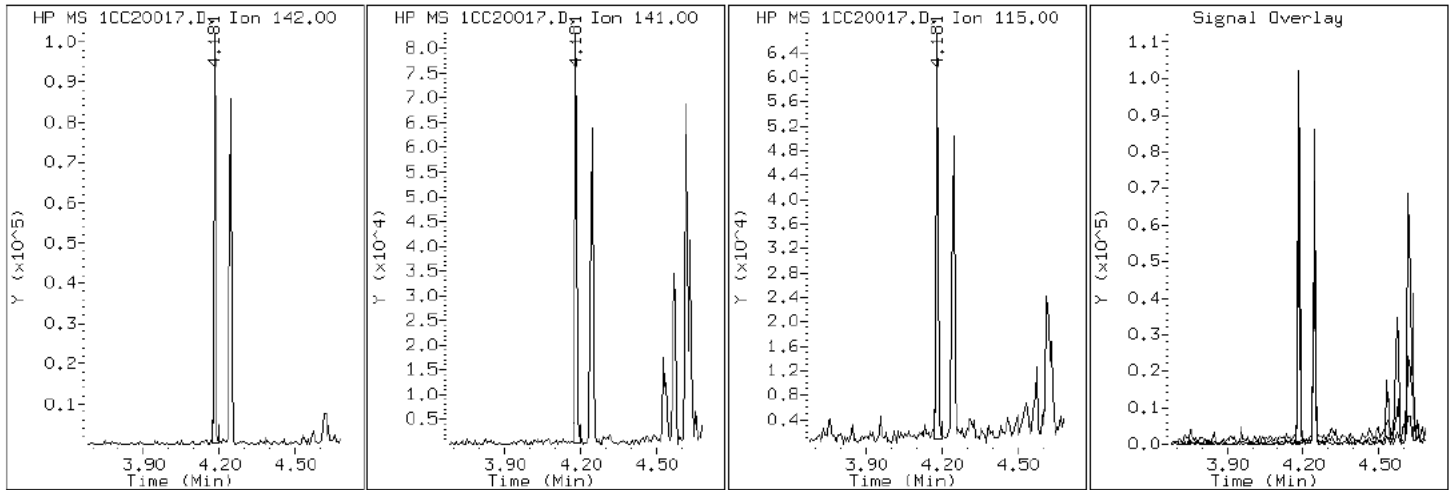
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

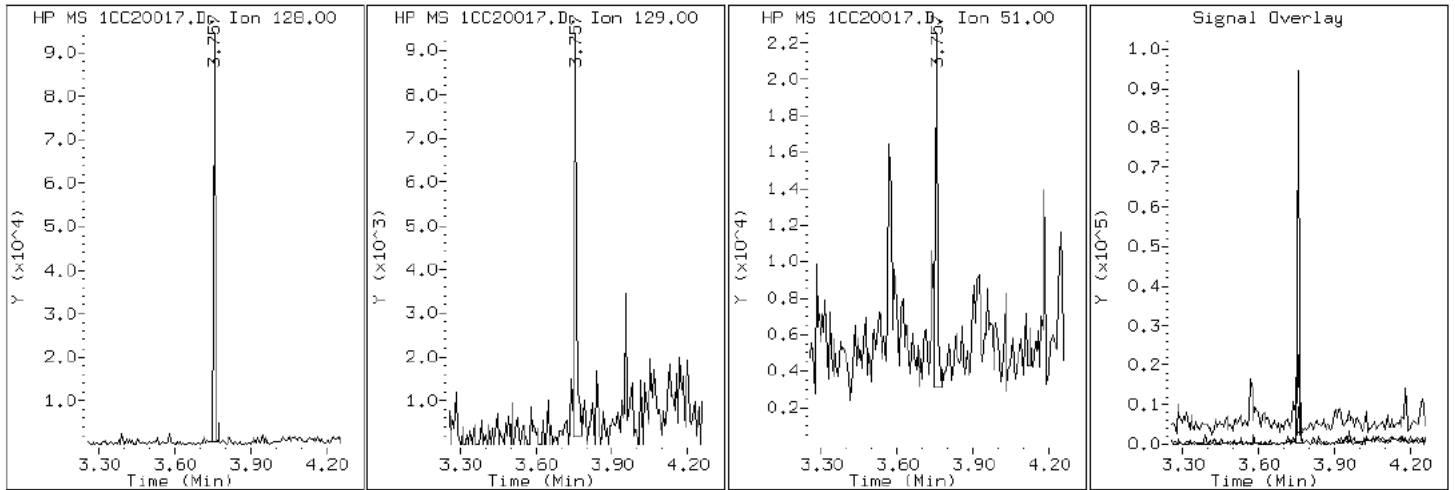
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

2 Naphthalene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

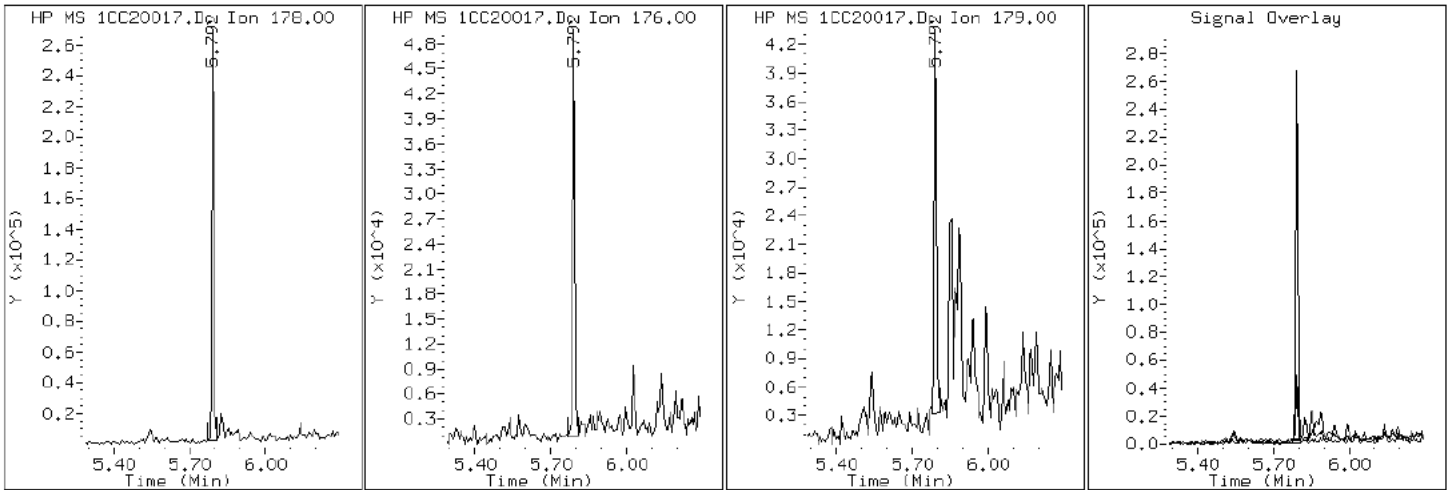
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20017.D

Date: 20-MAR-2013 14:55

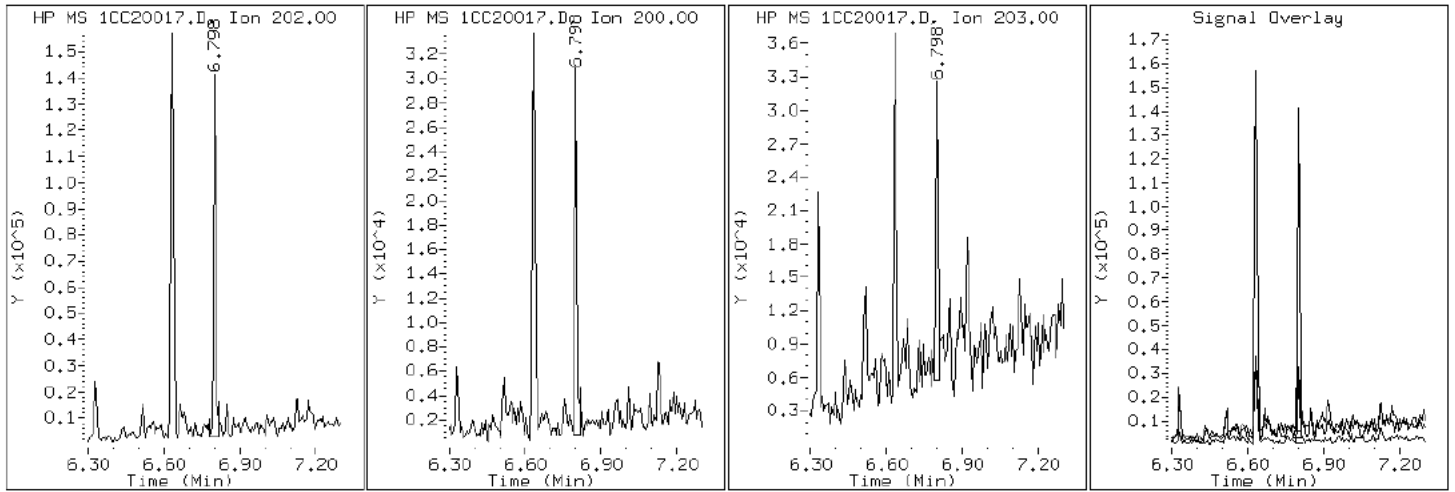
Client ID: CV0910B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-10-a

Operator: SCC

16 Pyrene

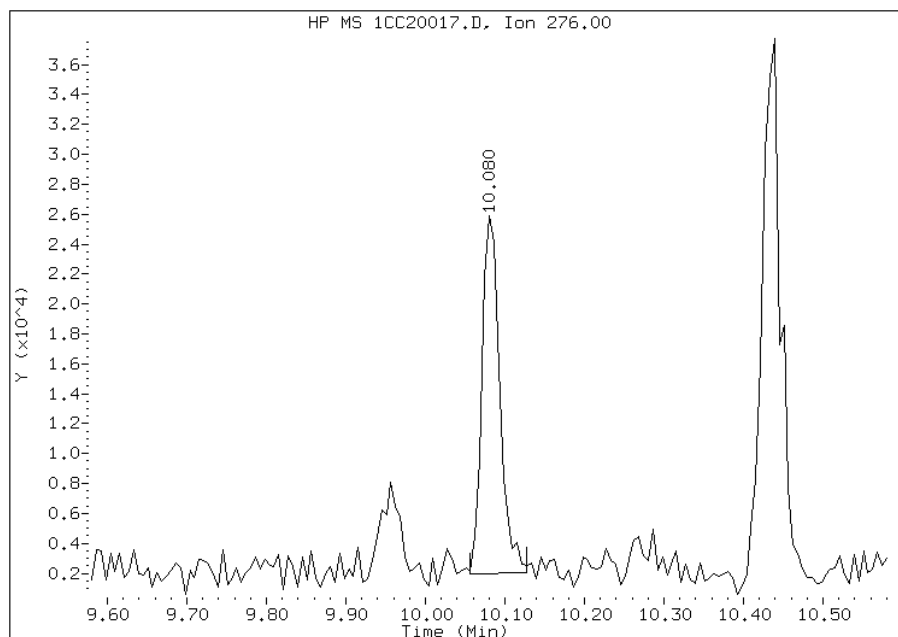


Manual Integration Report

Data File: 1CC20017.D
Inj. Date and Time: 20-MAR-2013 14:55
Instrument ID: BSMC5973.i
Client ID: CV0910B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

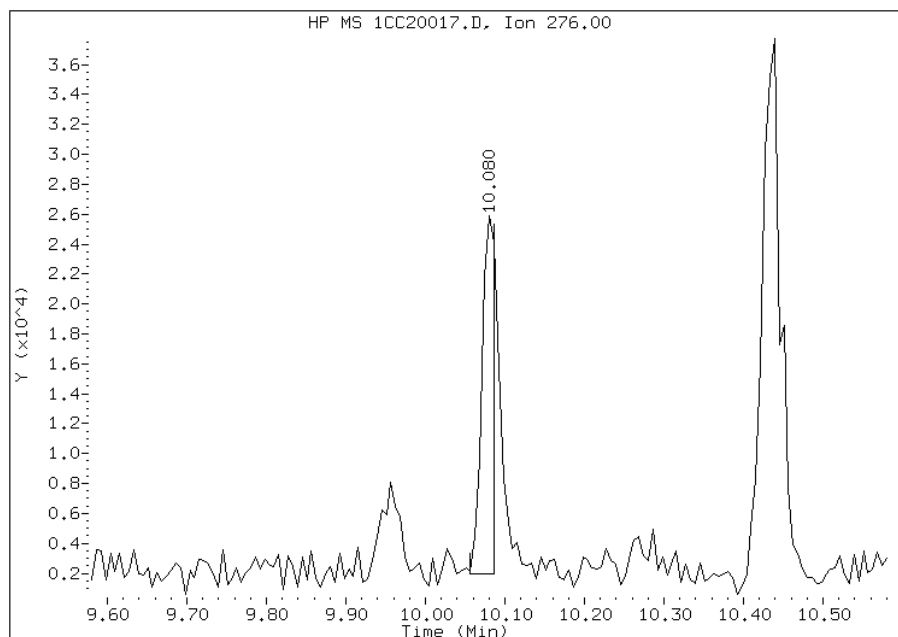
Processing Integration Results

RT: 10.08
Response: 36915
Amount: 1
Conc: 92



Manual Integration Results

RT: 10.08
Response: 26885
Amount: 1
Conc: 67



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 09:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0207A-CS Lab Sample ID: 680-88176-11
 Matrix: Solid Lab File ID: 1CC20018.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 12:30
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.18(g) Date Analyzed: 03/20/2013 15:13
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	25	J	49	6.1
120-12-7	Anthracene	48		10	5.1
56-55-3	Benzo[a]anthracene	330		9.8	4.8
50-32-8	Benzo[a]pyrene	410		13	6.3
205-99-2	Benzo[b]fluoranthene	640		15	7.4
191-24-2	Benzo[g,h,i]perylene	330		24	5.4
207-08-9	Benzo[k]fluoranthene	240		9.8	4.4
218-01-9	Chrysene	440		11	5.5
53-70-3	Dibenz(a,h)anthracene	94		24	5.0
206-44-0	Fluoranthene	490		24	4.9
86-73-7	Fluorene	16	J	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	320		24	8.7
90-12-0	1-Methylnaphthalene	97		49	5.4
91-57-6	2-Methylnaphthalene	130		49	8.7
91-20-3	Naphthalene	87		49	5.4
85-01-8	Phenanthrene	250		9.8	4.8
129-00-0	Pyrene	470		24	4.5

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20018.D
 Lab Smp Id: 680-88176-A-11-A Client Smp ID: CV0207A-CS
 Inj Date : 20-MAR-2013 15:13
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-11-a
 Misc Info : 680-88176-A-11-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 18
 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	15.180	Weight Extracted
M	19.014	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
								(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.745	3.745	(1.000)	933778	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	726464	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1317304	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	119351	6.00084	488.1247	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1491119	40.0000		
* 23 Perylene-d12	264		8.909	8.909	(1.000)	1392048	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	25948	1.06739	86.8243	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	25134	1.54998	126.0796	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	17641	1.19449	97.1633	
5 Acenaphthylene	152		4.745	4.745	(0.983)	8934	0.30503	24.8121	
9 Fluorene	166		5.168	5.169	(1.071)	4420	0.19198	15.6163	
11 Phenanthrene	178		5.792	5.792	(1.002)	117386	3.08176	250.6784	
12 Anthracene	178		5.827	5.827	(1.008)	21796	0.58509	47.5928	
13 Carbazole	167		5.933	5.933	(1.026)	7962	0.24044	19.5577	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
15 Fluoranthene	202		6.633	6.633	(1.148)	253264	6.07146	493.8694
16 Pyrene	202		6.798	6.798	(0.880)	233260	5.82107	473.5015
17 Benzo(a)anthracene	228		7.715	7.715	(0.999)	172414	4.00622	325.8768
19 Chrysene	228		7.739	7.739	(1.002)	232058	5.38806	438.2797
20 Benzo(b)fluoranthene	252		8.562	8.562	(0.961)	286239	7.86816	640.0178(M)
21 Benzo(k)fluoranthene	252		8.580	8.586	(0.963)	108297	2.90188	236.0467(MH)
22 Benzo(a)pyrene	252		8.851	8.857	(0.993)	177354	5.01903	408.2616
24 Indeno(1,2,3-cd)pyrene	276		10.074	10.080	(1.131)	129685	3.90130	317.3426(M)
25 Dibenzo(a,h)anthracene	278		10.098	10.098	(1.133)	37654	1.15806	94.1994
26 Benzo(g,h,i)perylene	276		10.433	10.433	(1.171)	140823	4.04974	329.4167

QC Flag Legend

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

Data File: 1CC20018.D

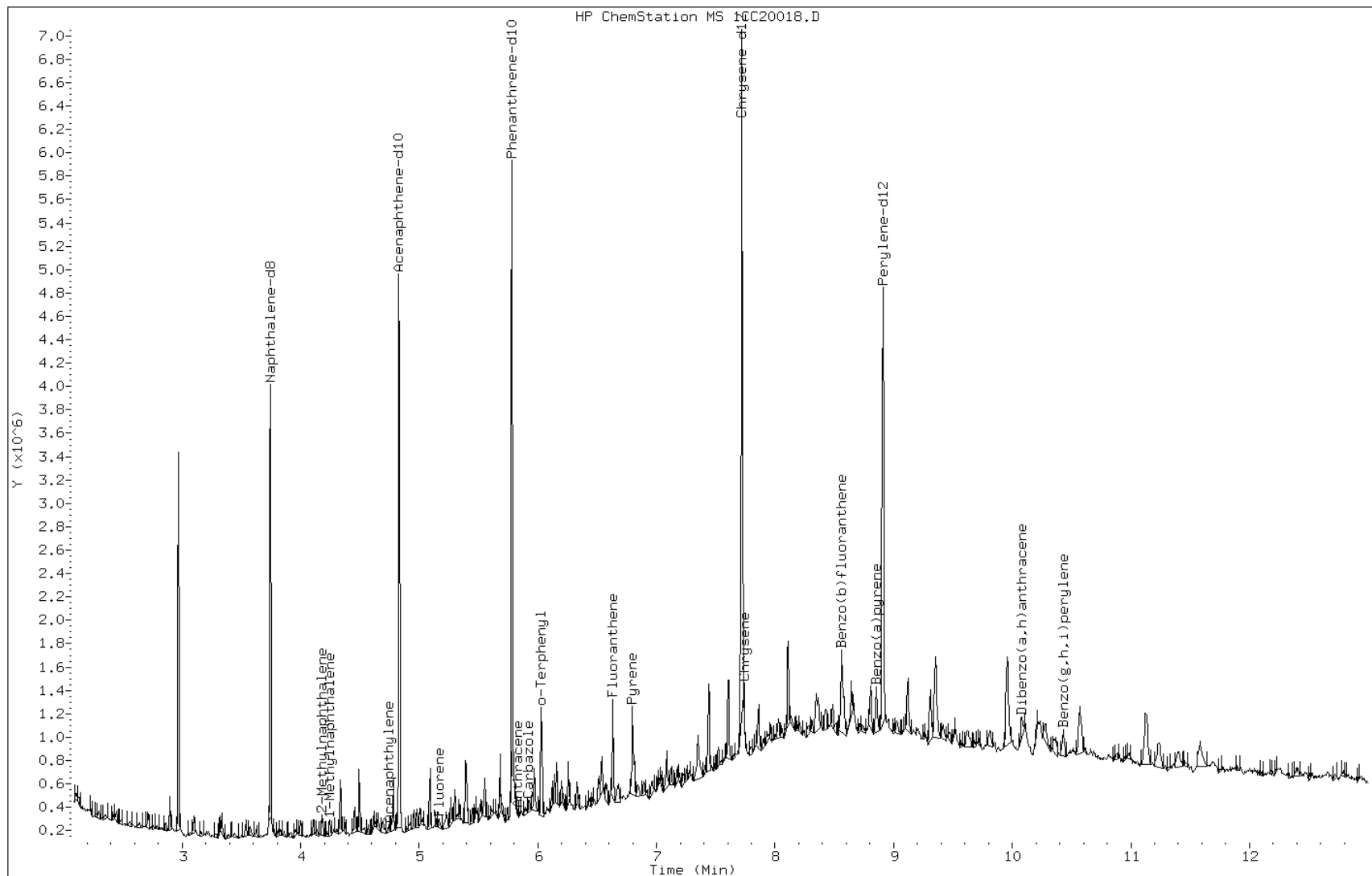
Date: 20-MAR-2013 15:13

Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

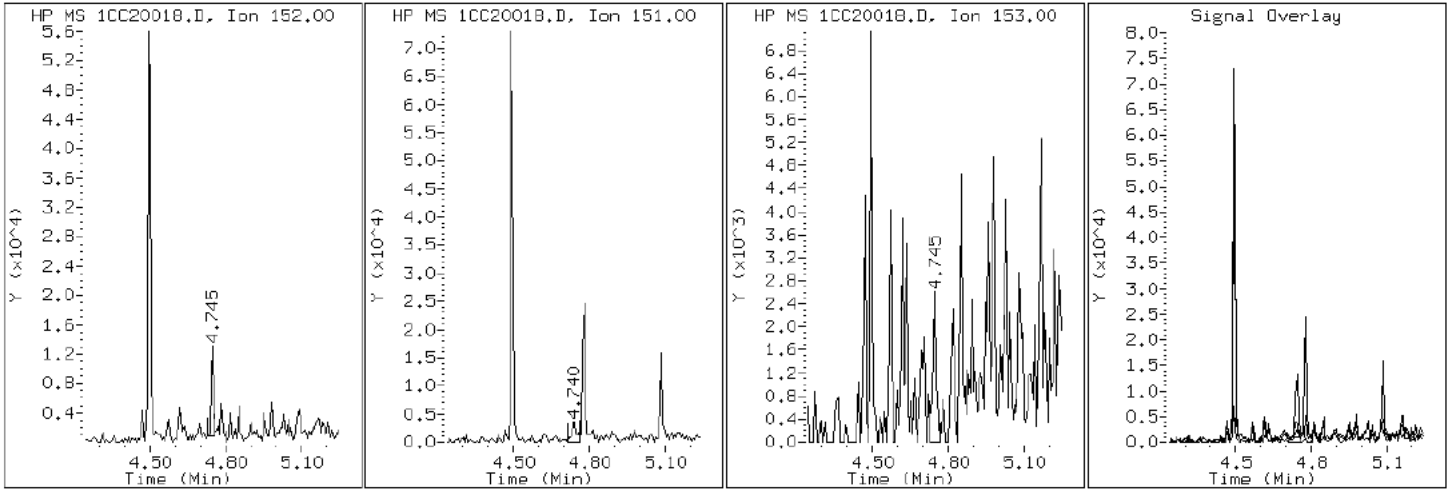
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

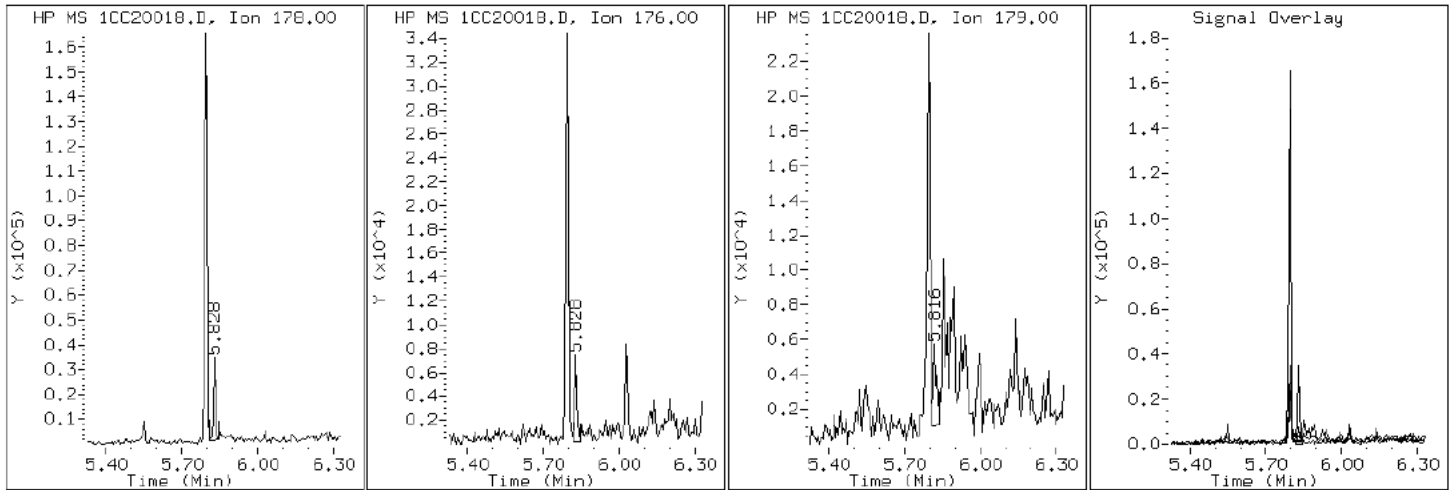
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

12 Anthracene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

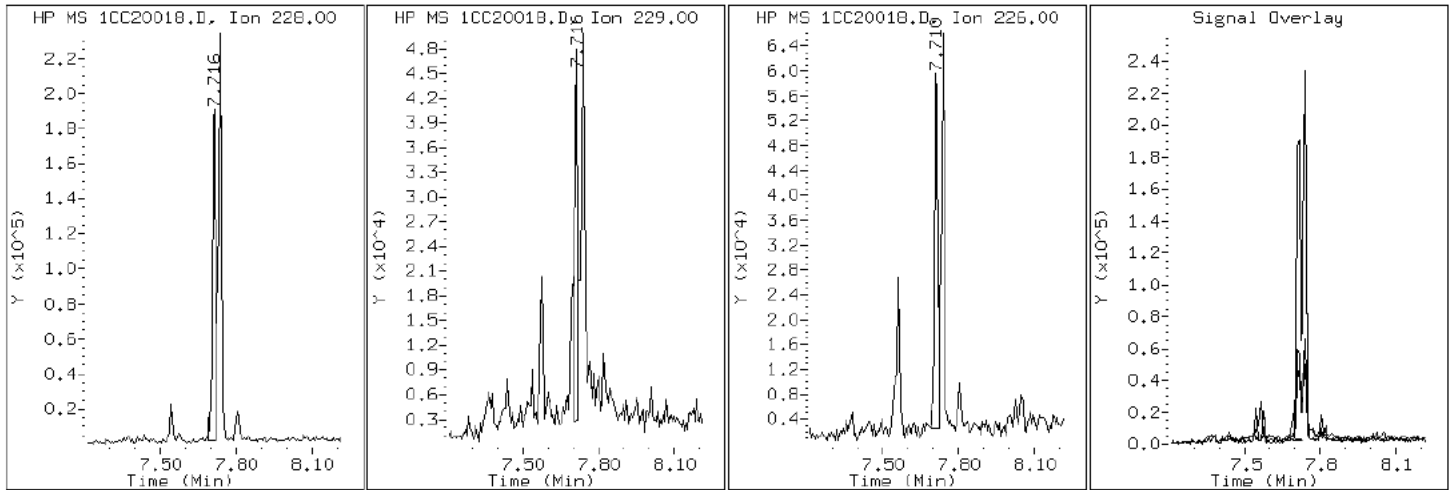
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

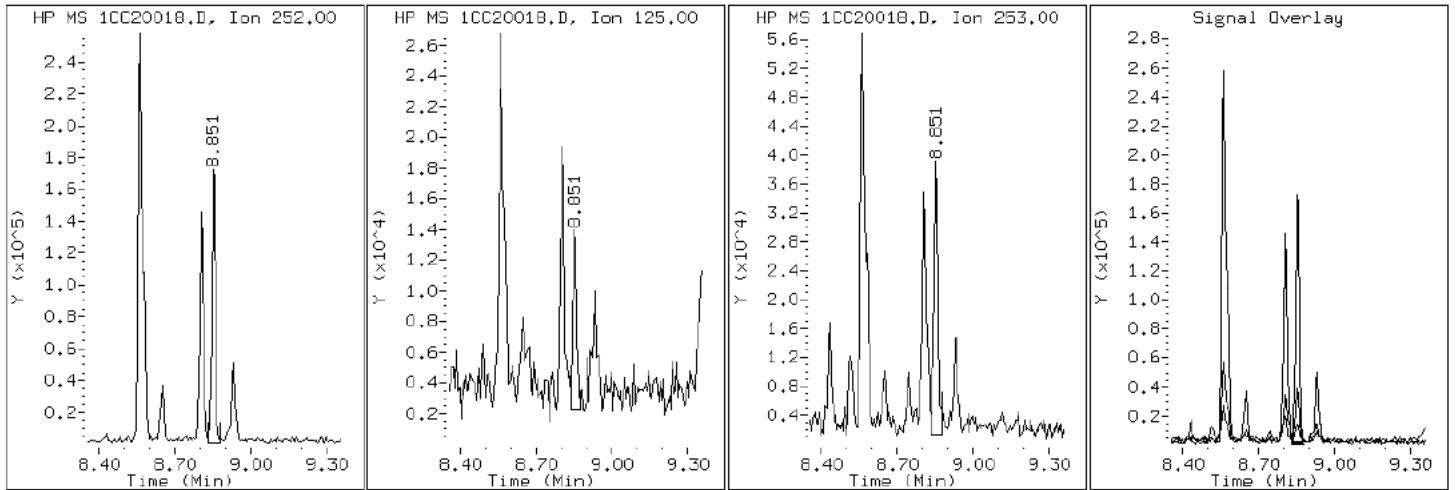
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

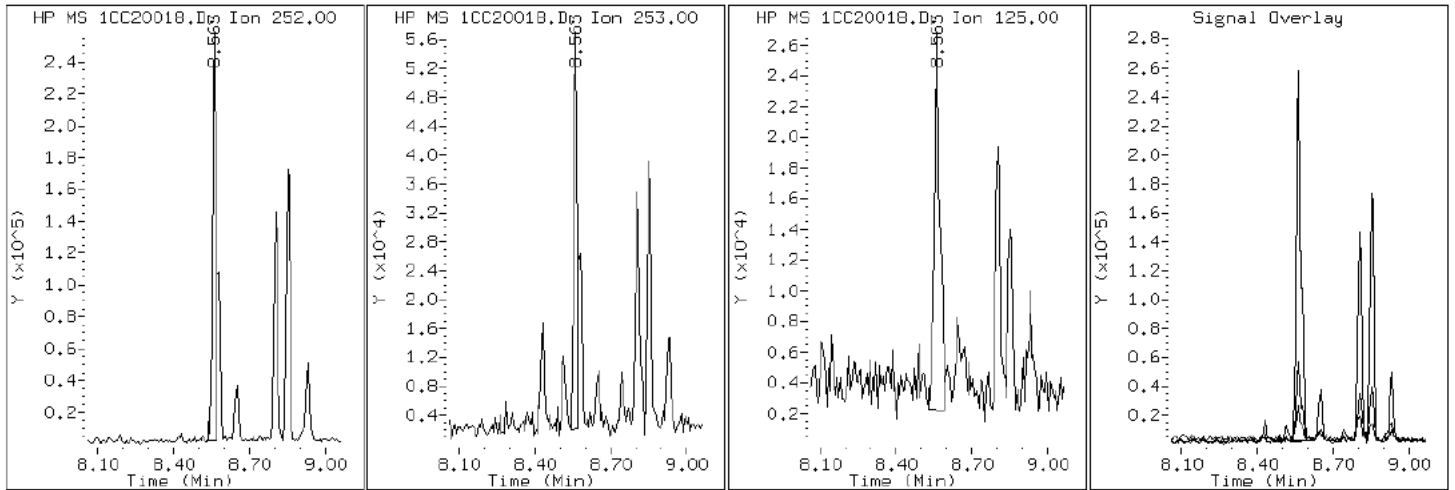
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

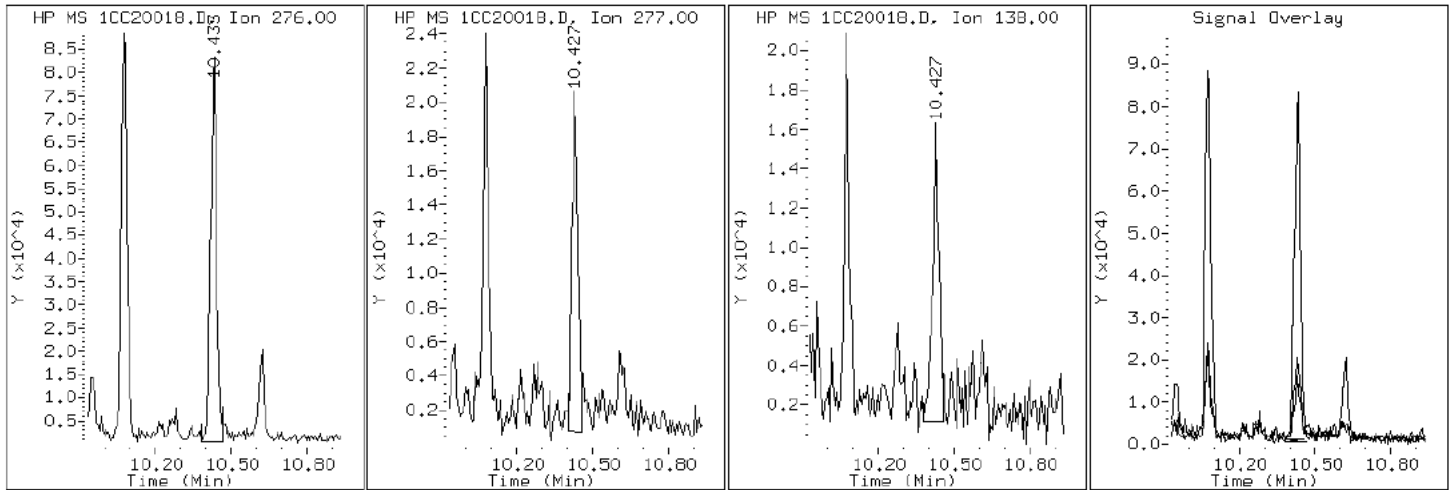
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

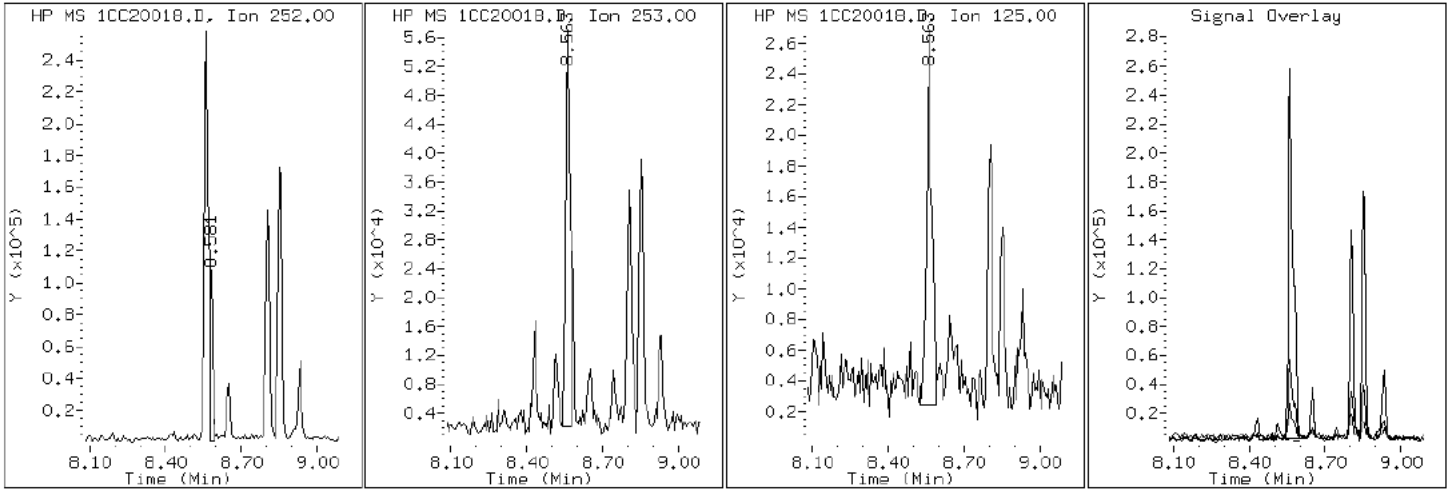
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

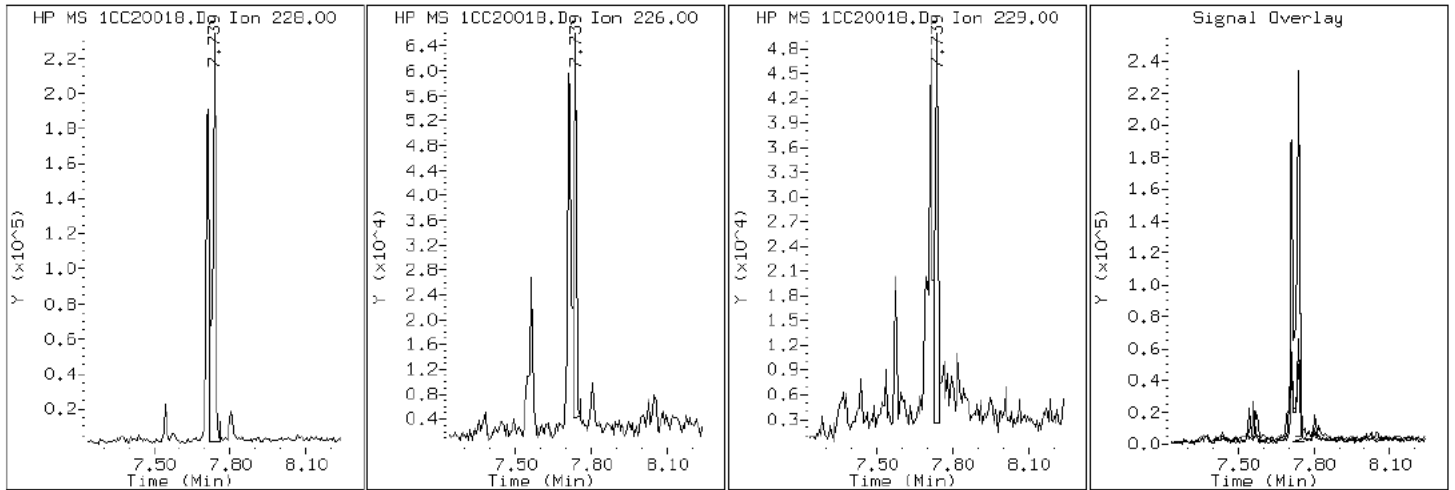
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

19 Chrysene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

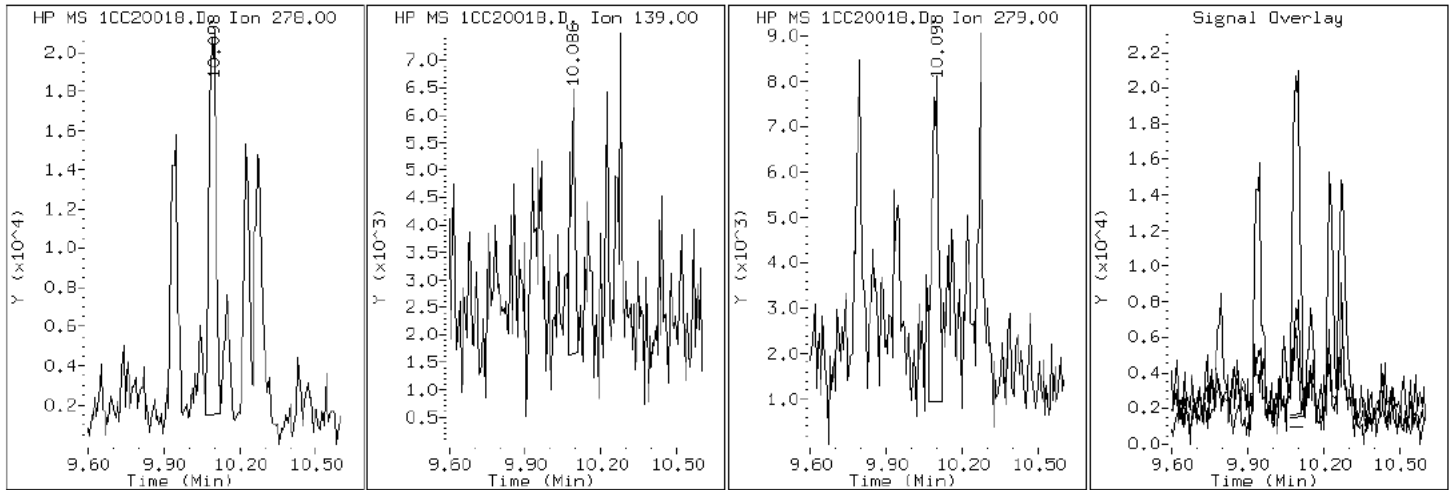
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

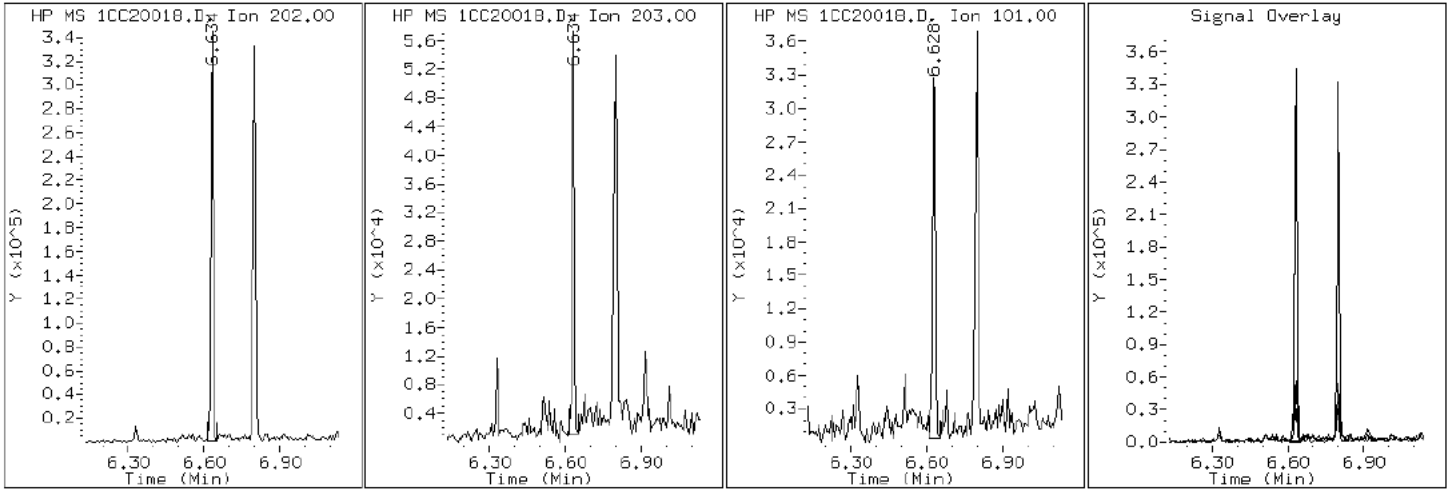
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

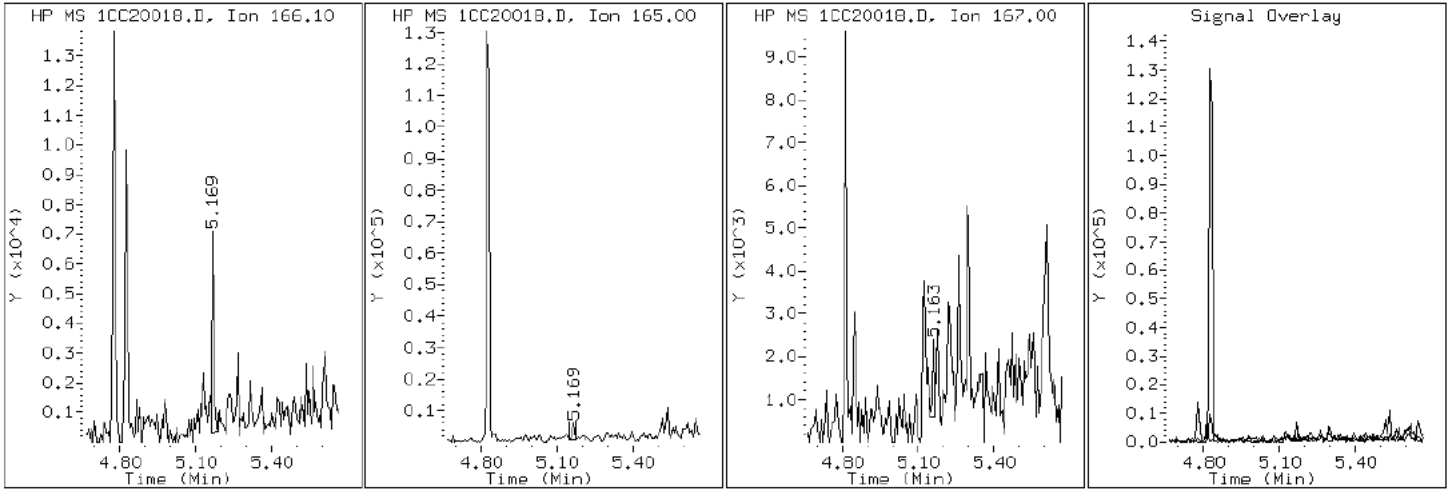
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

9 Fluorene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

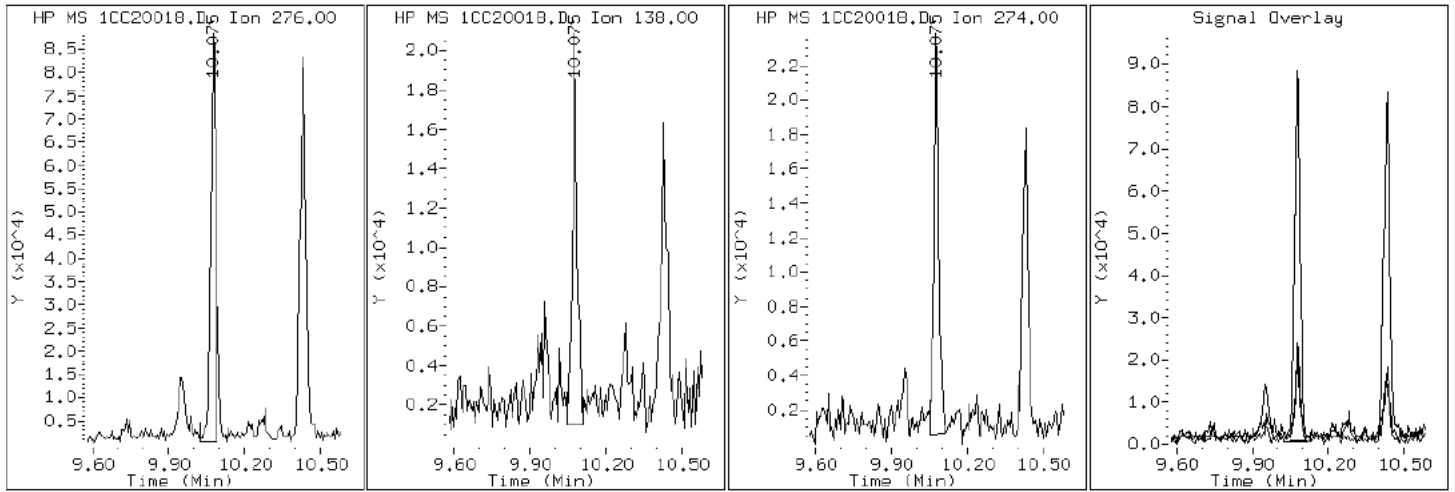
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

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



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

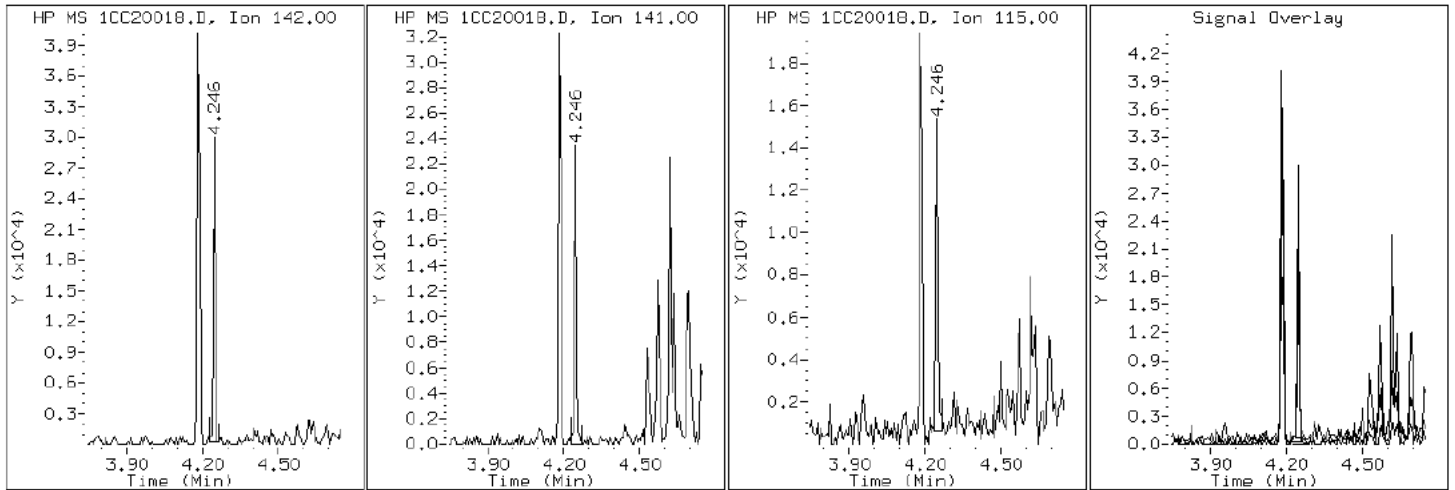
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

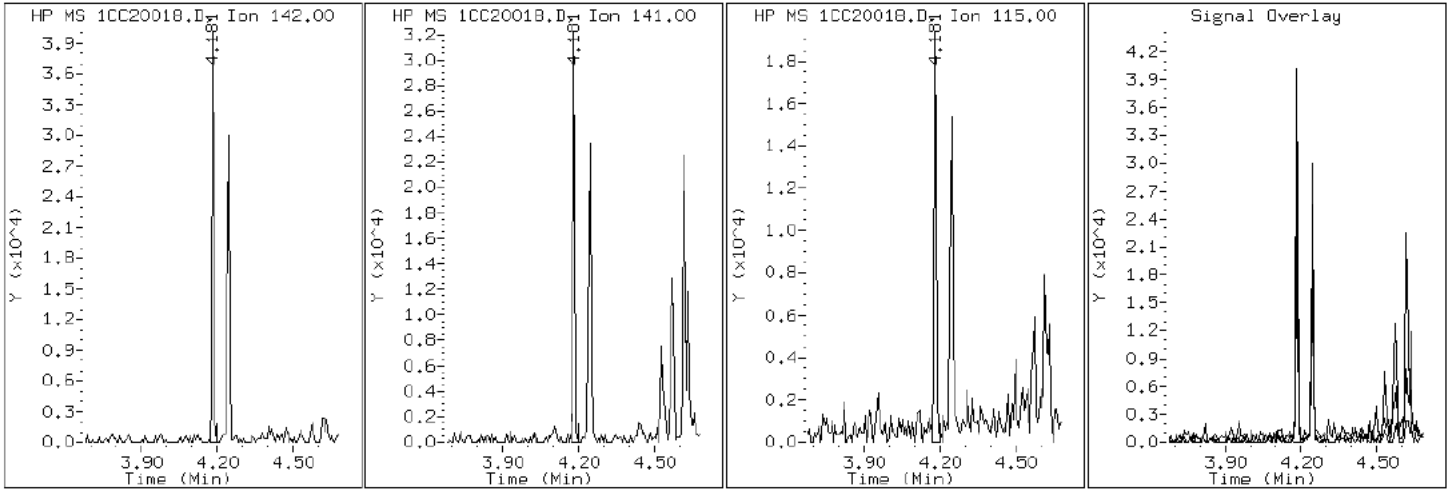
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

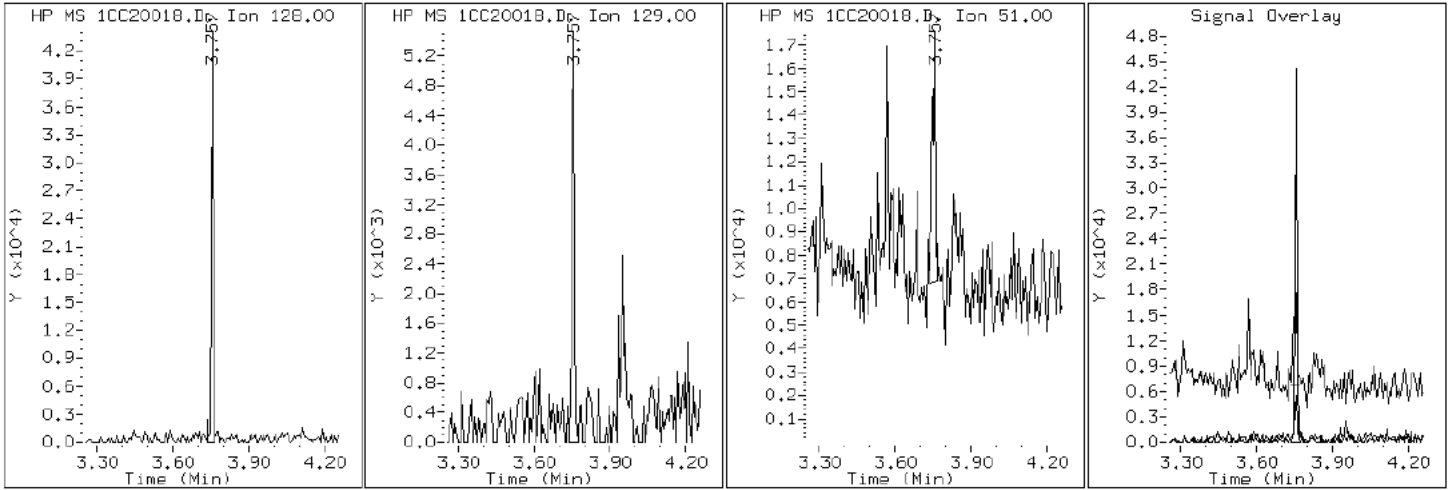
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

2 Naphthalene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

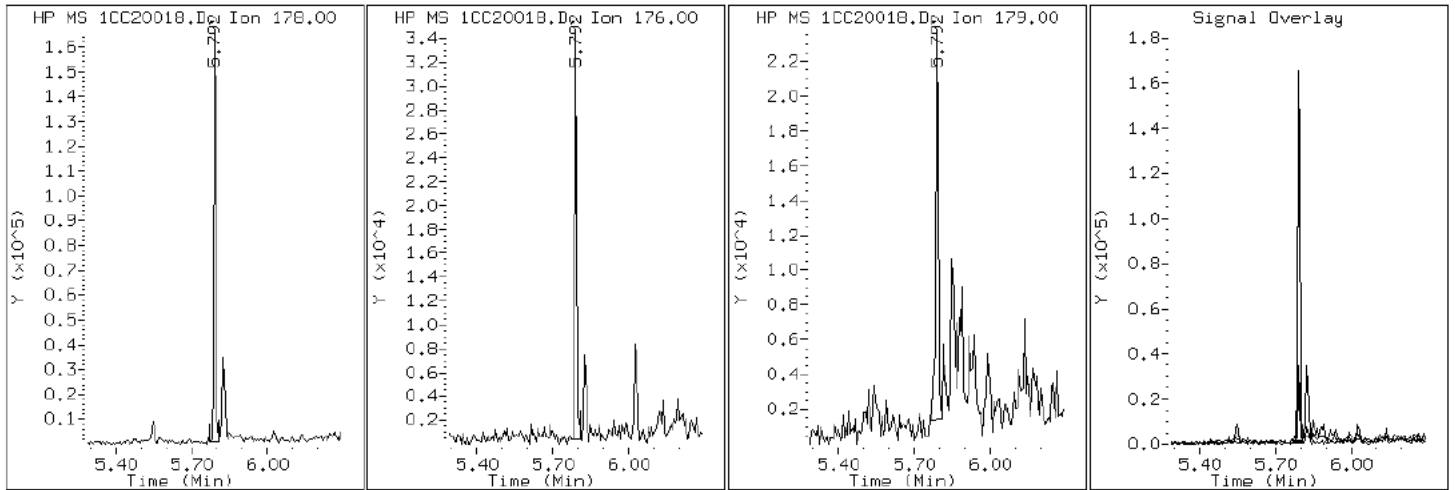
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20018.D

Date: 20-MAR-2013 15:13

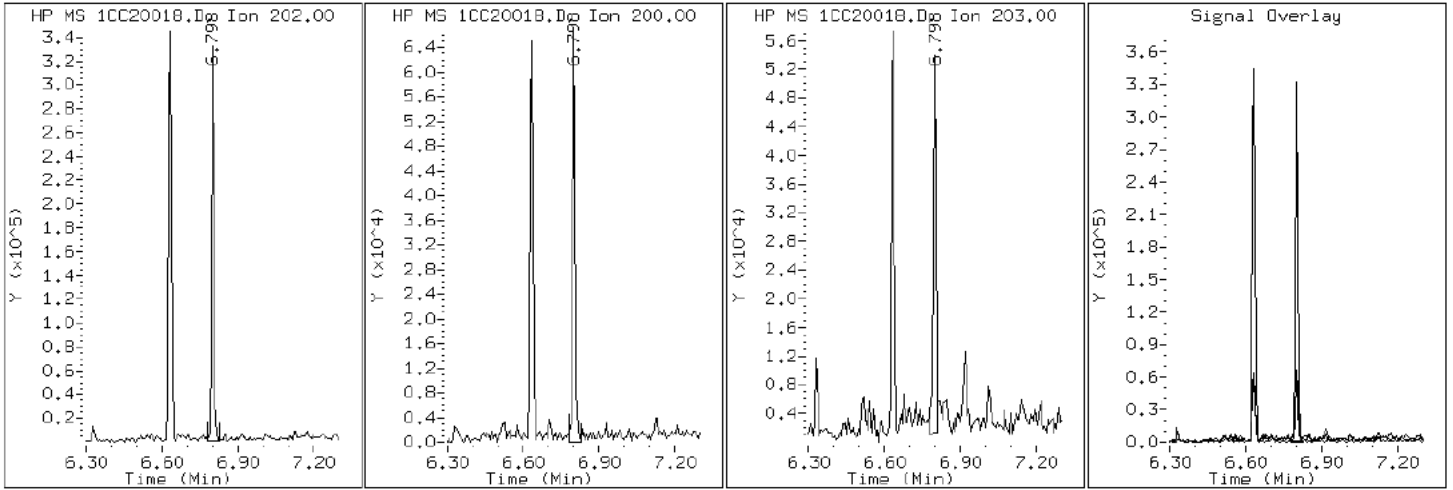
Client ID: CV0207A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-11-a

Operator: SCC

16 Pyrene

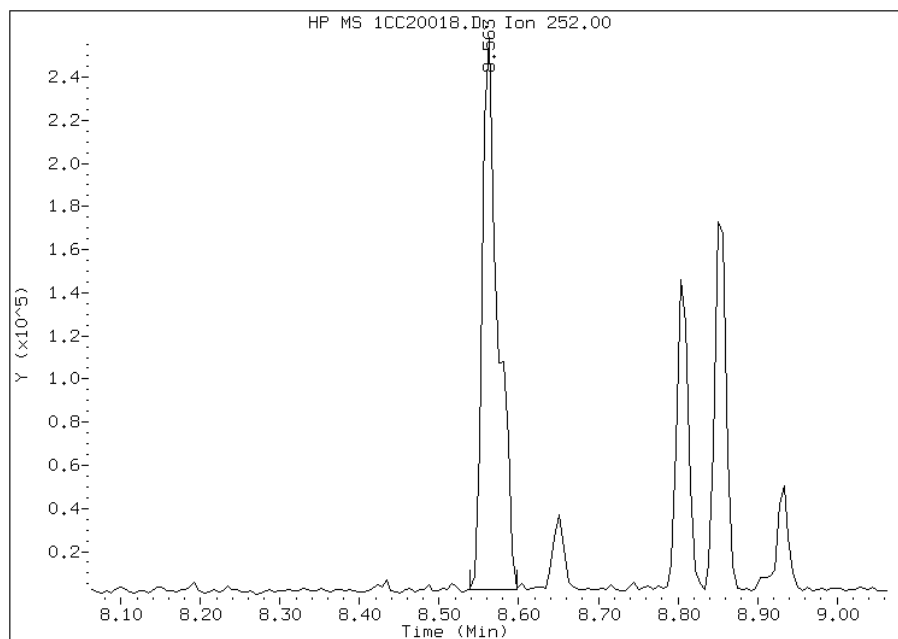


Manual Integration Report

Data File: 1CC20018.D
Inj. Date and Time: 20-MAR-2013 15:13
Instrument ID: BSMC5973.i
Client ID: CV0207A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

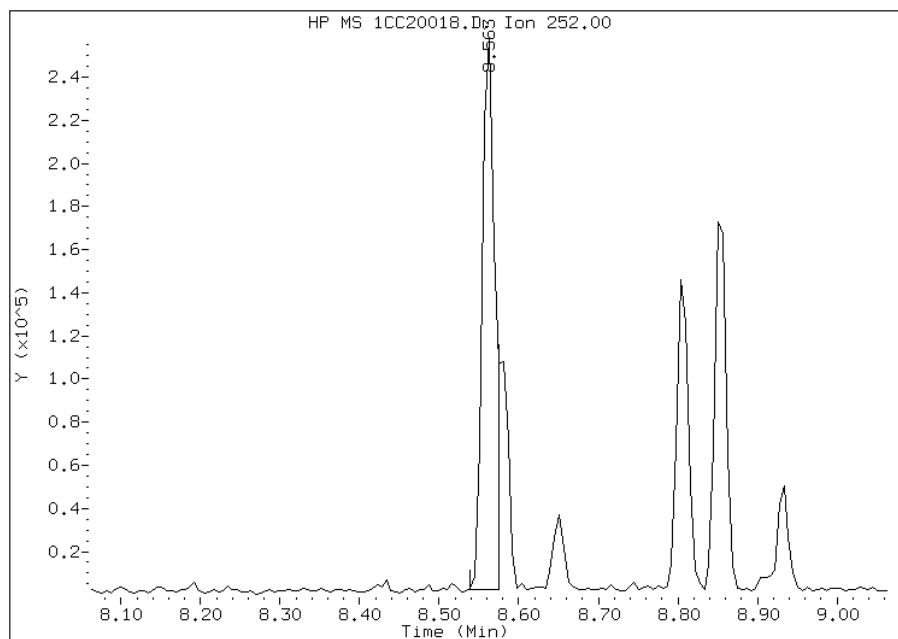
Processing Integration Results

RT: 8.56
Response: 354609
Amount: 10
Conc: 793



Manual Integration Results

RT: 8.56
Response: 286239
Amount: 8
Conc: 640



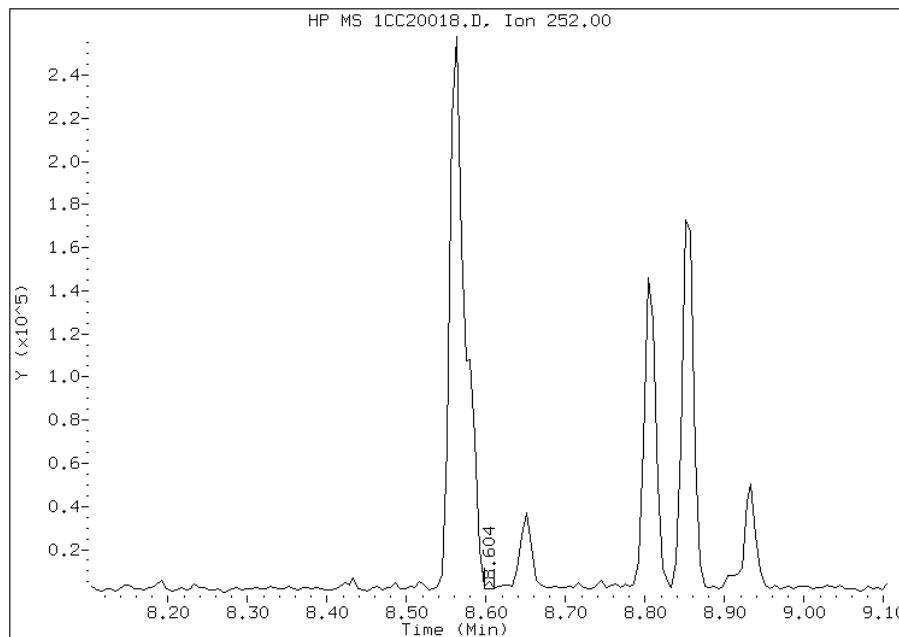
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 09:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20018.D
Inj. Date and Time: 20-MAR-2013 15:13
Instrument ID: BSMC5973.i
Client ID: CV0207A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

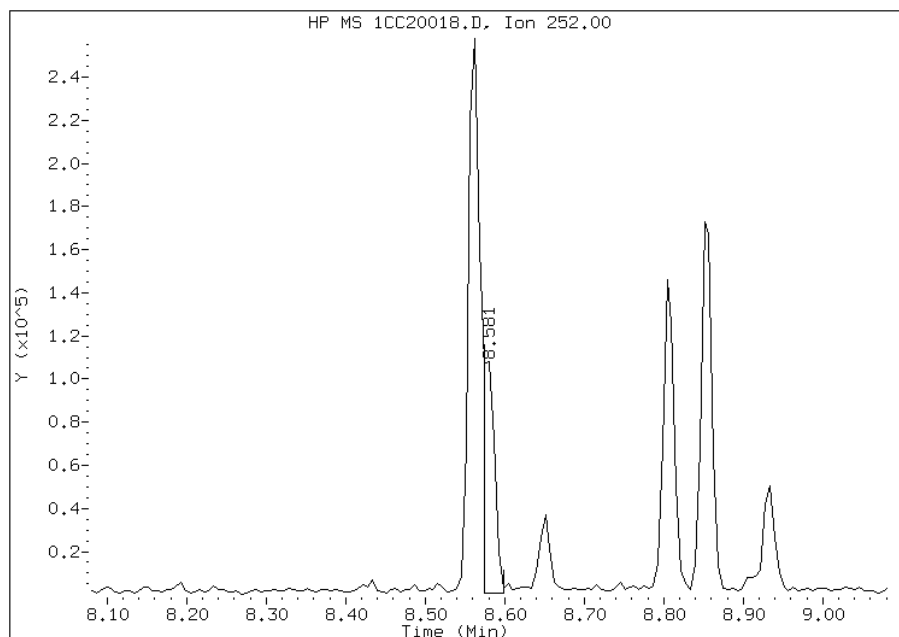
Processing Integration Results

RT: 8.60
Response: 2005
Amount: 0
Conc: 4



Manual Integration Results

RT: 8.58
Response: 108297
Amount: 3
Conc: 236



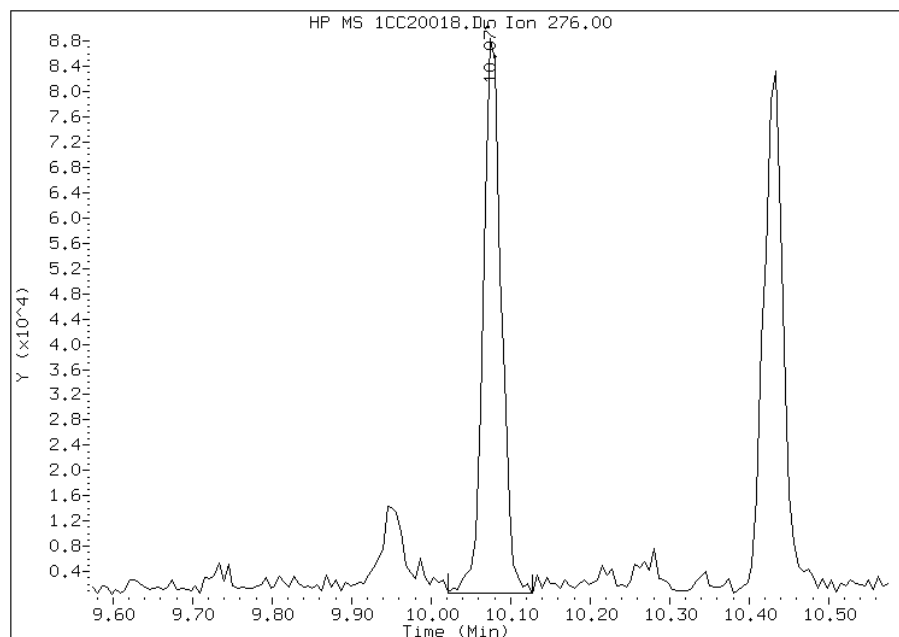
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 09:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20018.D
Inj. Date and Time: 20-MAR-2013 15:13
Instrument ID: BSMC5973.i
Client ID: CV0207A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

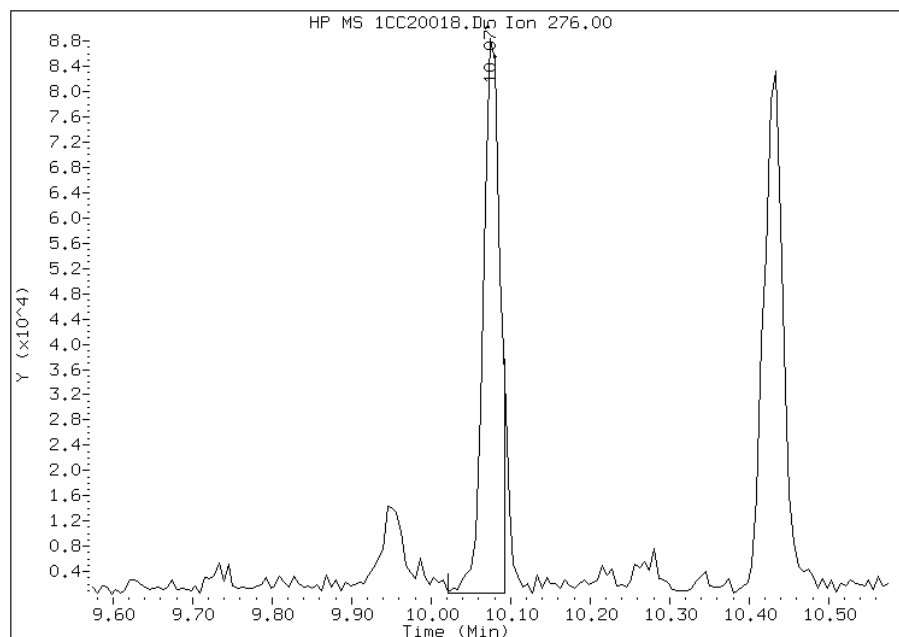
Processing Integration Results

RT: 10.07
Response: 137950
Amount: 4
Conc: 338



Manual Integration Results

RT: 10.07
Response: 129685
Amount: 4
Conc: 317



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 09:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0207A-CSD Lab Sample ID: 680-88176-12
 Matrix: Solid Lab File ID: 1CC20019.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 12:30
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 14.95(g) Date Analyzed: 03/20/2013 15:31
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 14.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	21	J	47	5.9
120-12-7	Anthracene	20		9.9	5.0
56-55-3	Benzo[a]anthracene	200		9.4	4.6
50-32-8	Benzo[a]pyrene	250		12	6.1
205-99-2	Benzo[b]fluoranthene	380		14	7.2
191-24-2	Benzo[g,h,i]perylene	230		24	5.2
207-08-9	Benzo[k]fluoranthene	170		9.4	4.2
218-01-9	Chrysene	220		11	5.3
53-70-3	Dibenz(a,h)anthracene	68		24	4.8
206-44-0	Fluoranthene	230		24	4.7
86-73-7	Fluorene	11	J	24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	180		24	8.4
90-12-0	1-Methylnaphthalene	49		47	5.2
91-57-6	2-Methylnaphthalene	69		47	8.4
91-20-3	Naphthalene	52		47	5.2
85-01-8	Phenanthrene	110		9.4	4.6
129-00-0	Pyrene	240		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	40		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20019.D
 Lab Smp Id: 680-88176-A-12-A Client Smp ID: CV0207A-CSD
 Inj Date : 20-MAR-2013 15:31
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-12-a
 Misc Info : 680-88176-A-12-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 19
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.950	Weight Extracted
M	14.884	% 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		3.745	3.745	(1.000)	934662	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	742004	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1399478	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	84967	4.02121	316.0111	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1496446	40.0000		
* 23 Perylene-d12	264		8.909	8.909	(1.000)	1434049	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	16139	0.66326	52.1231	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	14228	0.87659	68.8880	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	9173	0.62053	48.7648	
5 Acenaphthylene	152		4.745	4.745	(0.983)	7896	0.26395	20.7424	
9 Fluorene	166		5.169	5.169	(1.071)	3166	0.13463	10.5804(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	56820	1.40412	110.3441	
12 Anthracene	178		5.827	5.827	(1.008)	9896	0.25005	19.6504	
13 Carbazole	167		5.933	5.933	(1.026)	7001	0.19900	15.6388	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
15 Fluoranthene	202	6.633	6.633	(1.148)	130632	2.94774	231.6518
16 Pyrene	202	6.798	6.798	(0.880)	123174	3.06290	240.7015
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	112135	2.59630	204.0332
19 Chrysene	228	7.739	7.739	(1.002)	119389	2.76218	217.0690
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	182408	4.86719	382.4942(M)
21 Benzo(k)fluoranthene	252	8.574	8.586	(0.962)	82850	2.15499	169.3525(M)
22 Benzo(a)pyrene	252	8.857	8.857	(0.994)	114676	3.15023	247.5641
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	79176	2.31208	181.6979(M)
25 Dibenzo(a,h)anthracene	278	10.098	10.098	(1.133)	29038	0.86691	68.1273
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.171)	102925	2.87319	225.7930

QC Flag Legend

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

Data File: 1CC20019.D

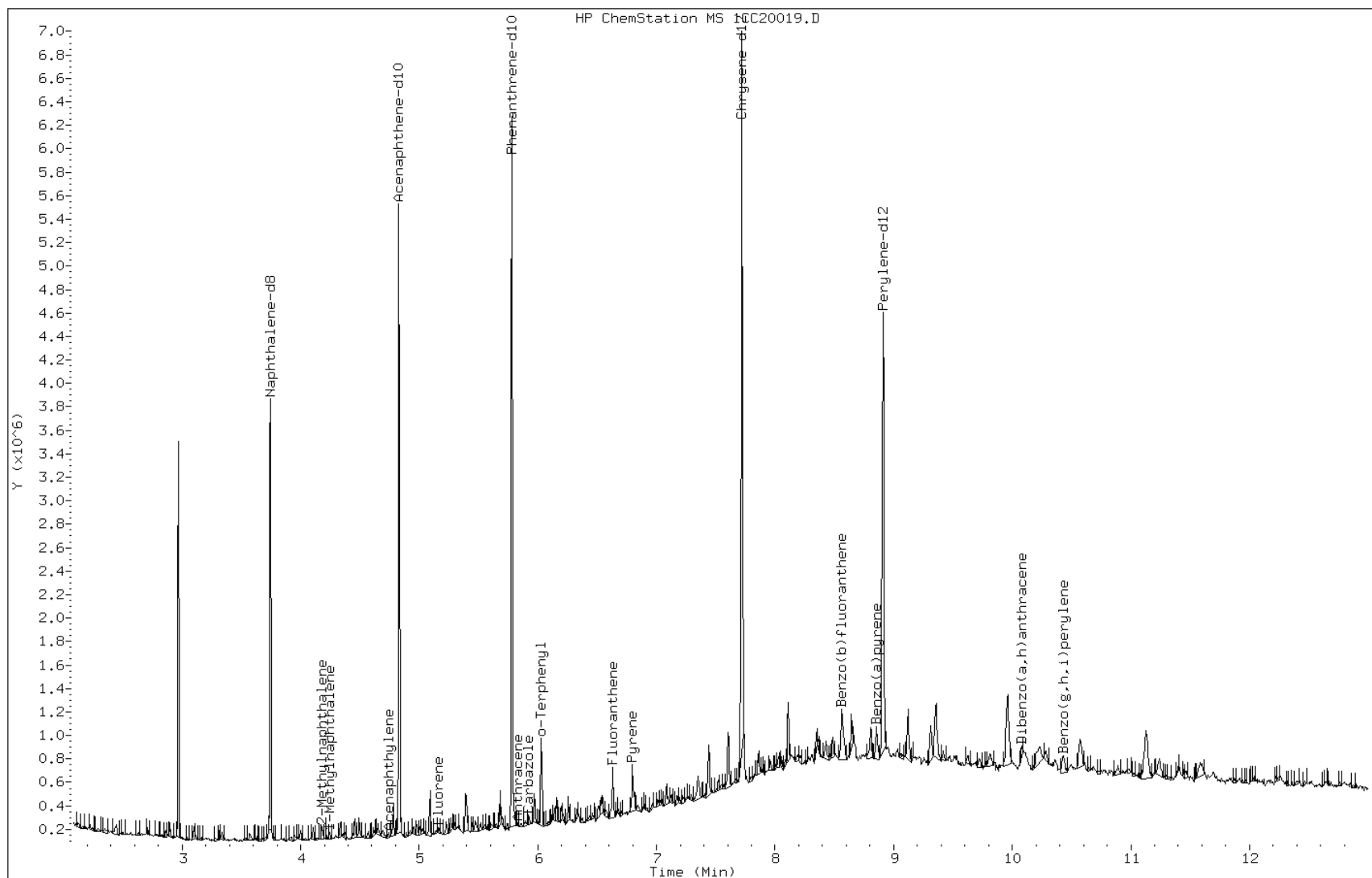
Date: 20-MAR-2013 15:31

Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

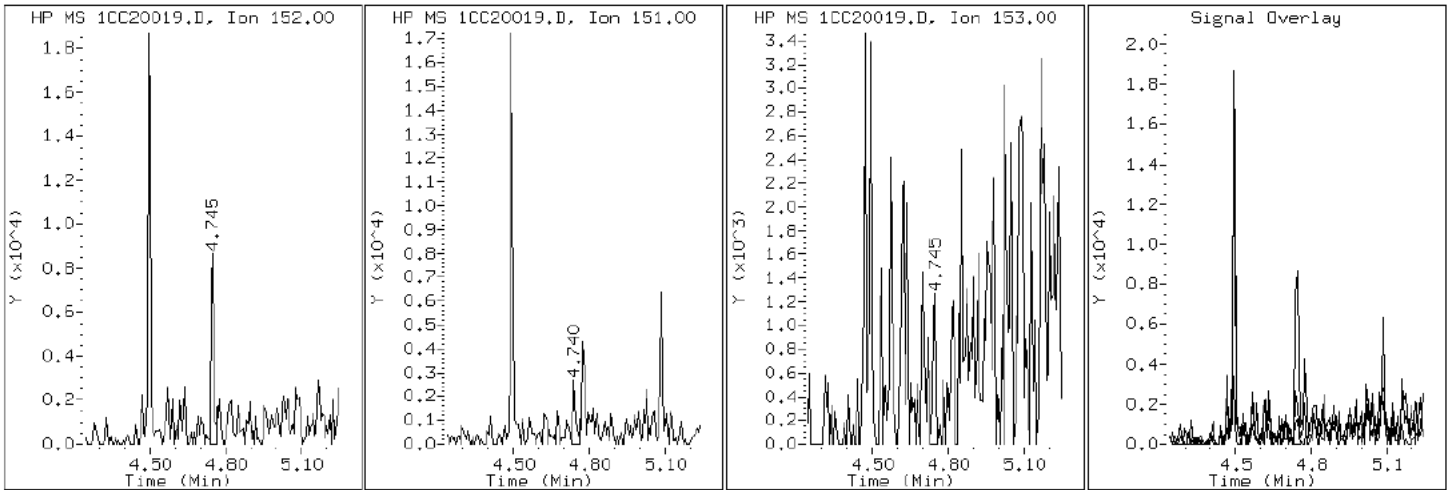
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

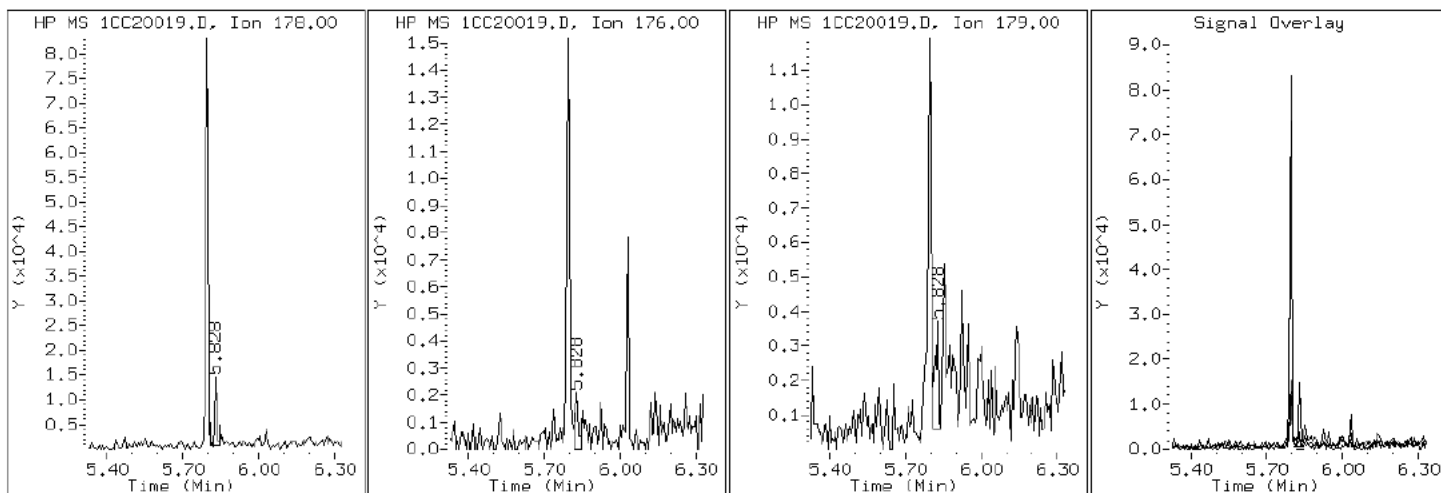
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

12 Anthracene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

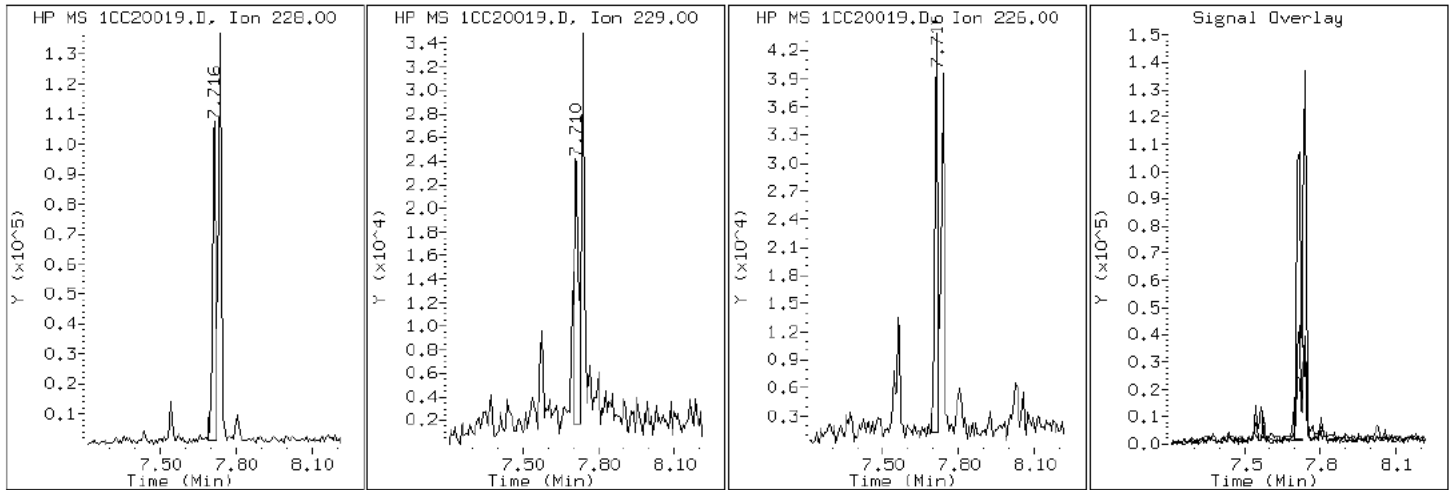
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

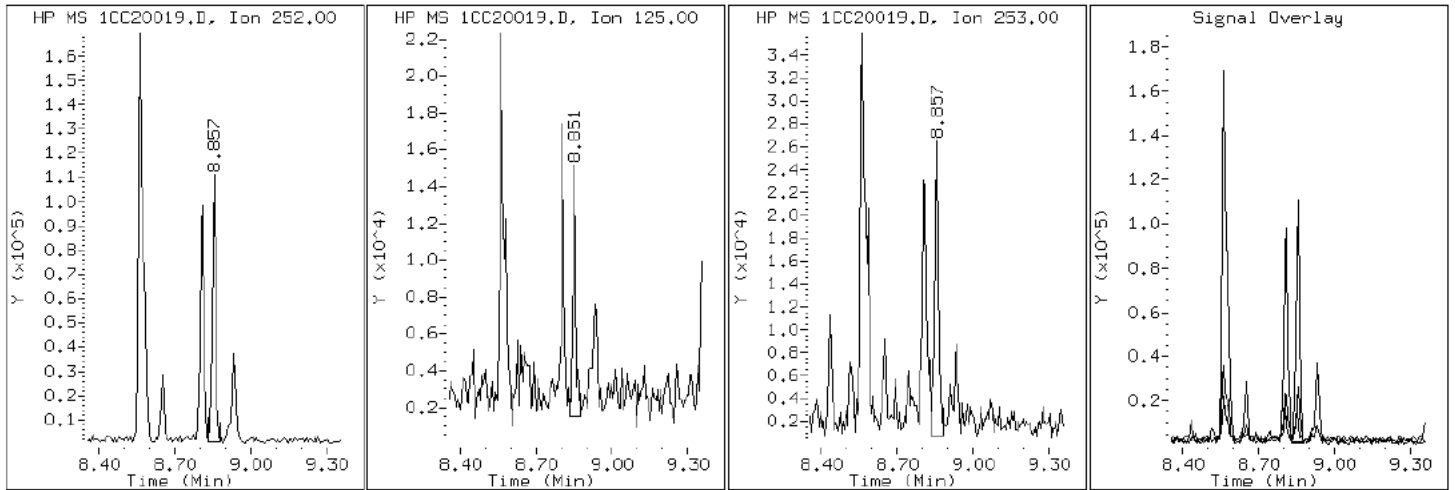
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

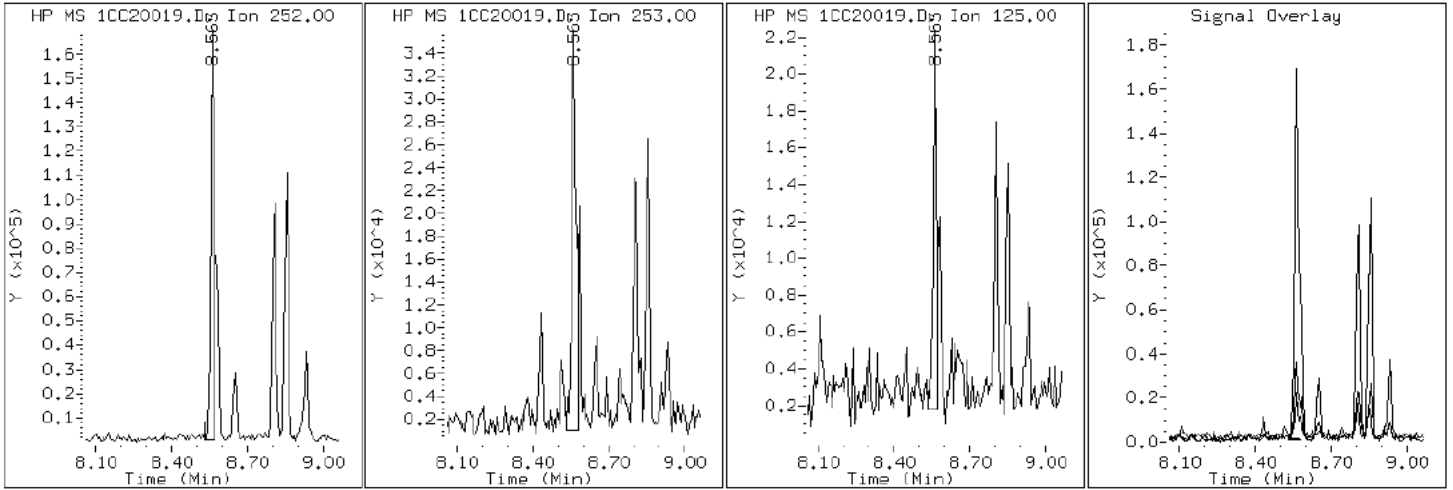
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

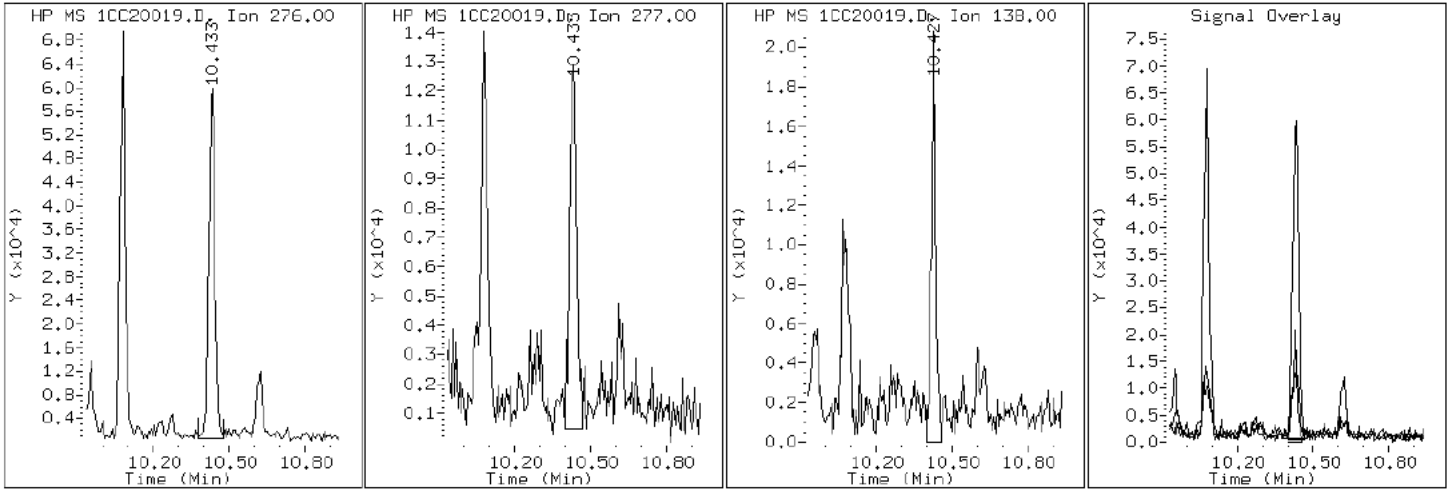
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

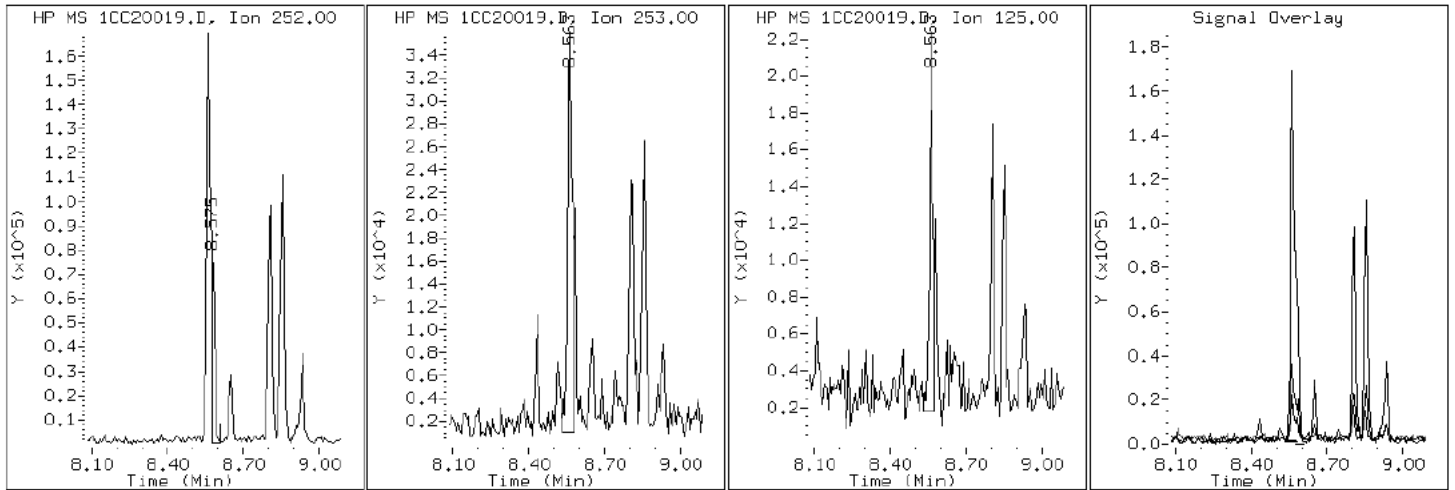
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

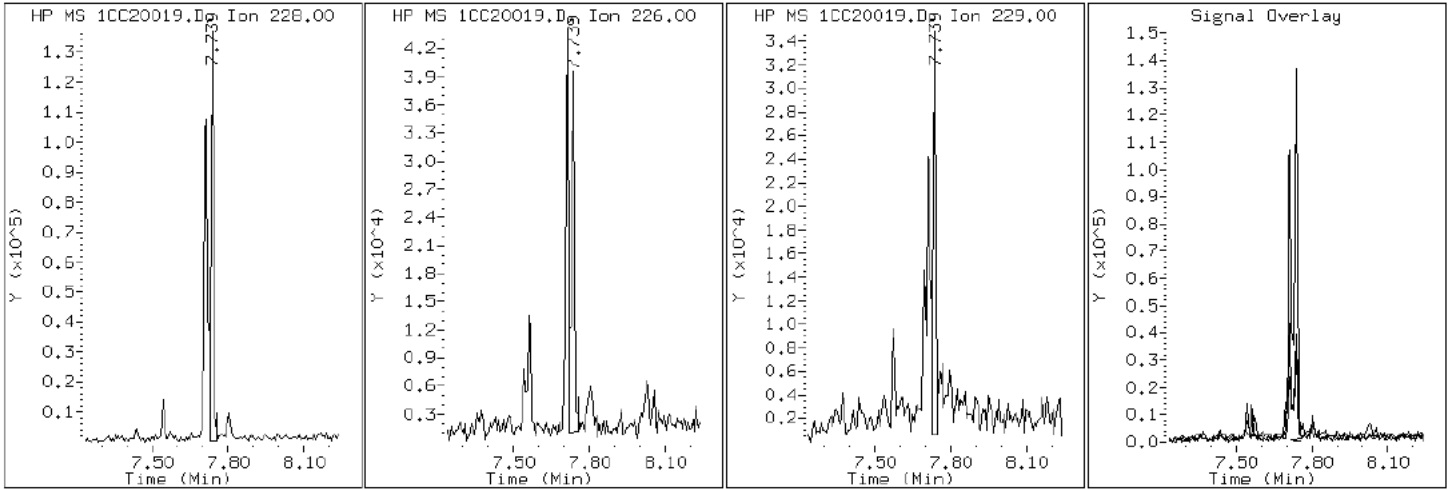
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

19 Chrysene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

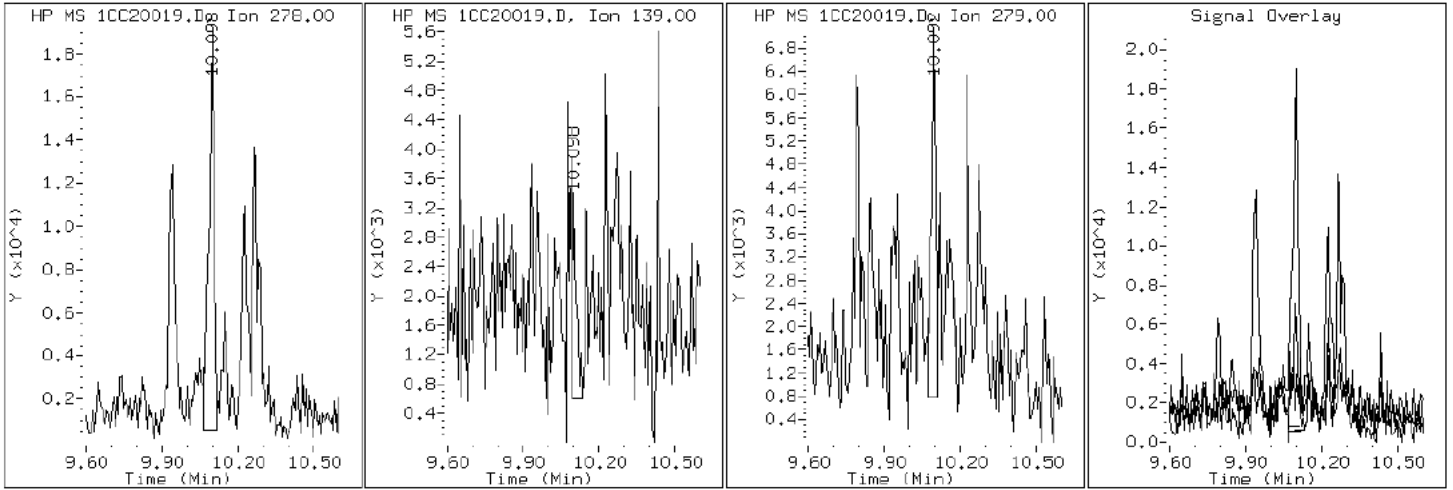
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

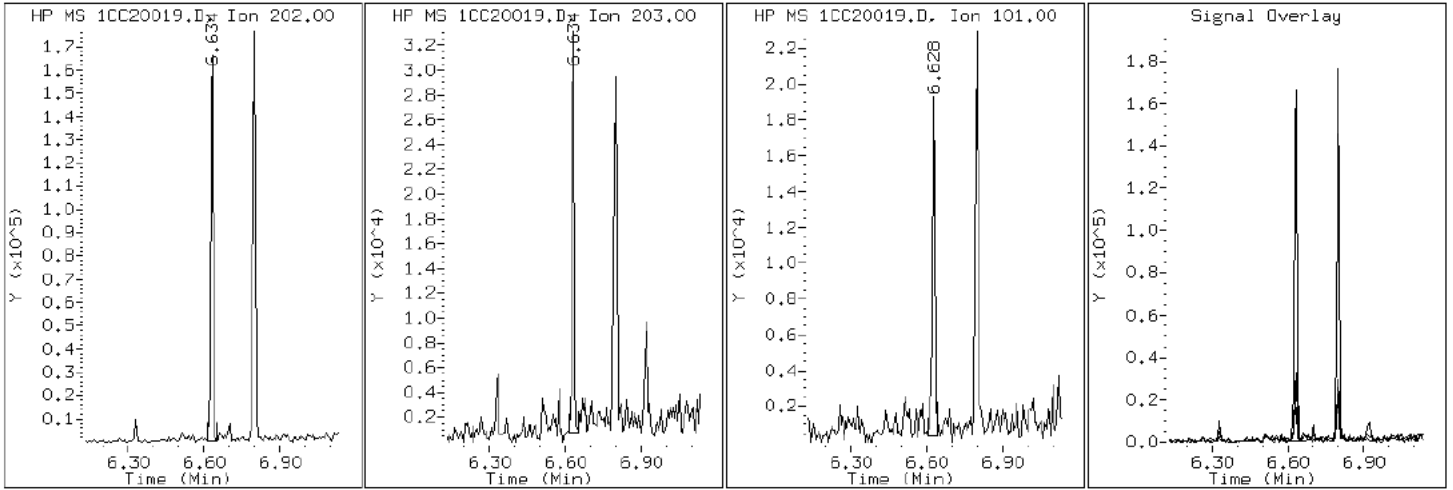
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

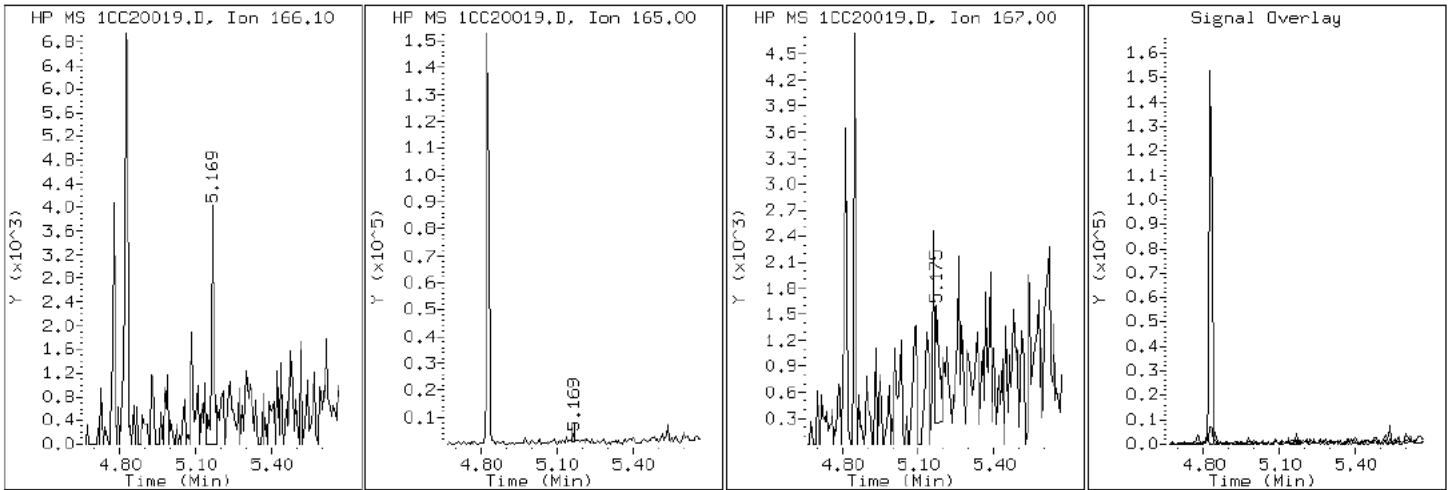
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

9 Fluorene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

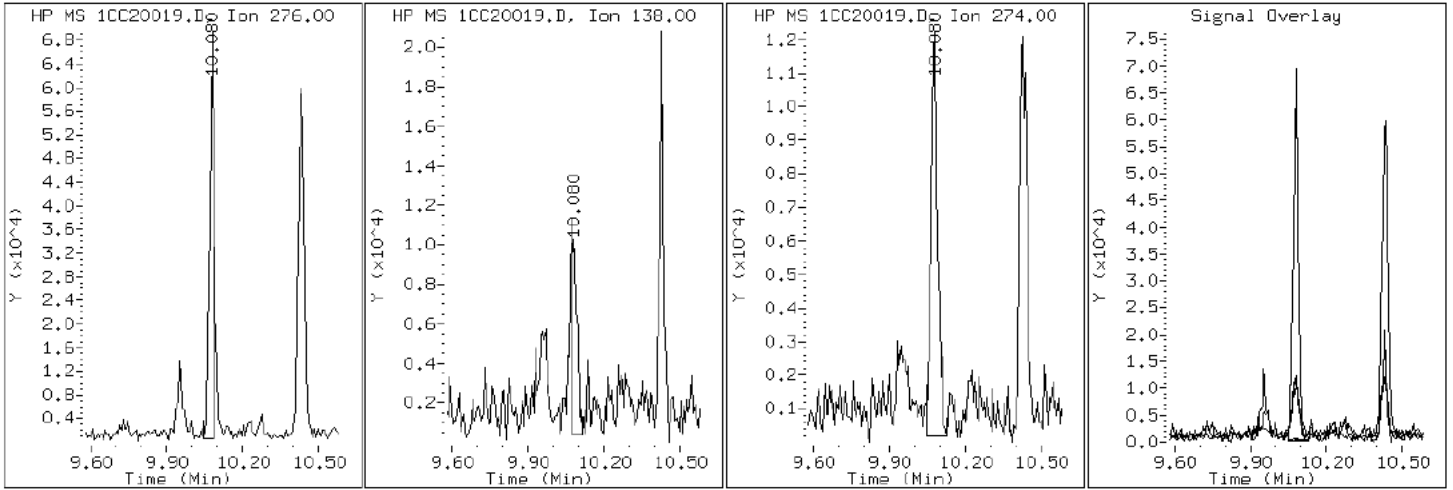
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

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



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

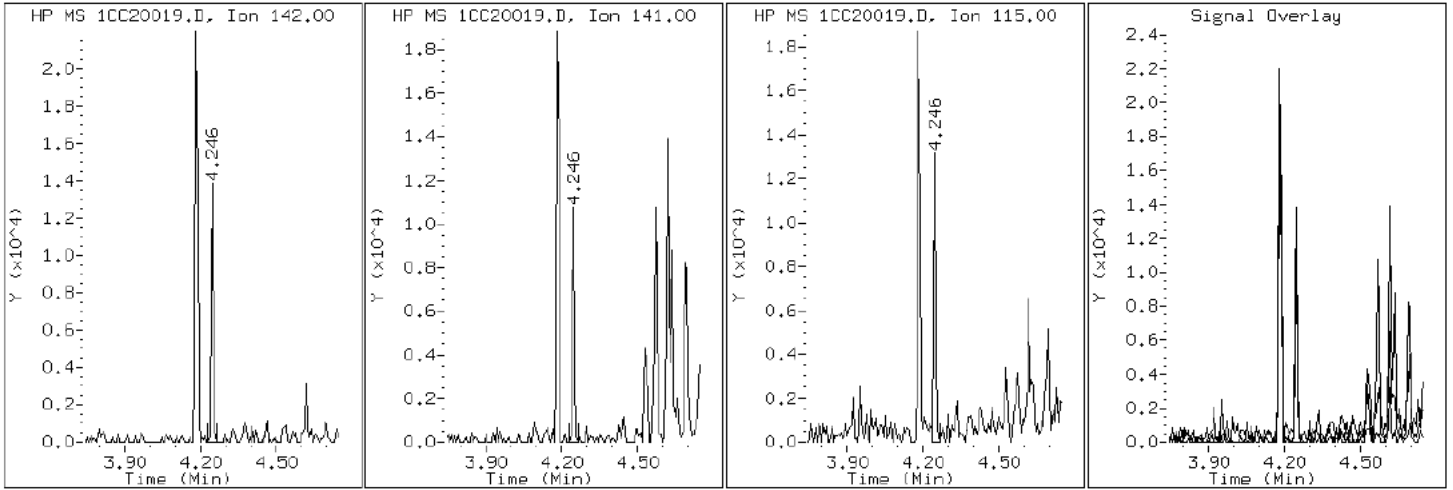
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

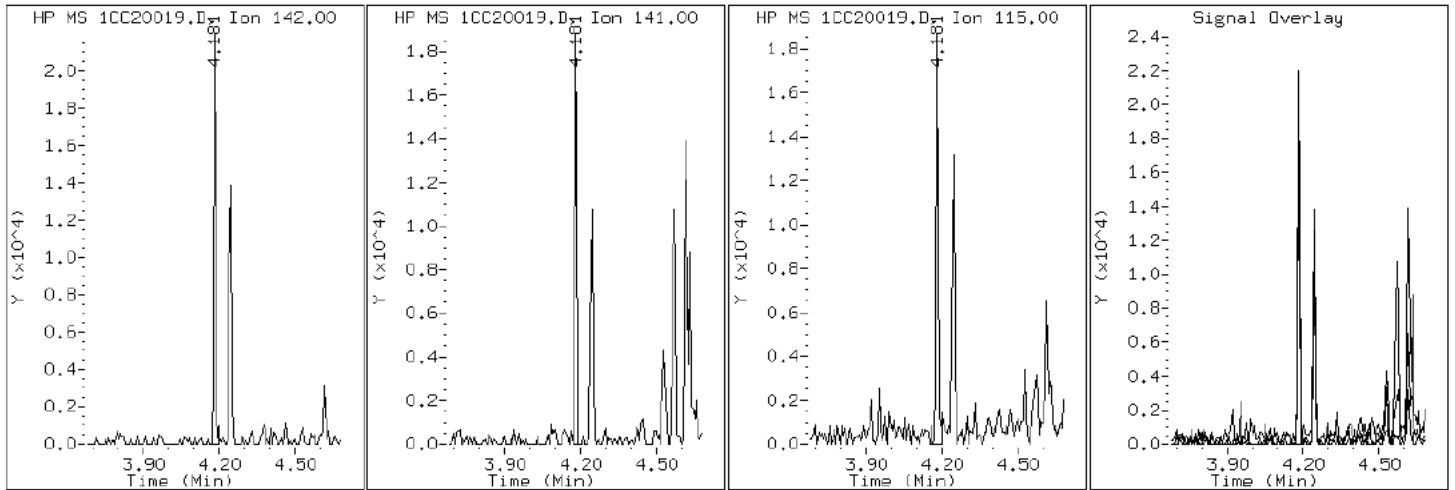
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

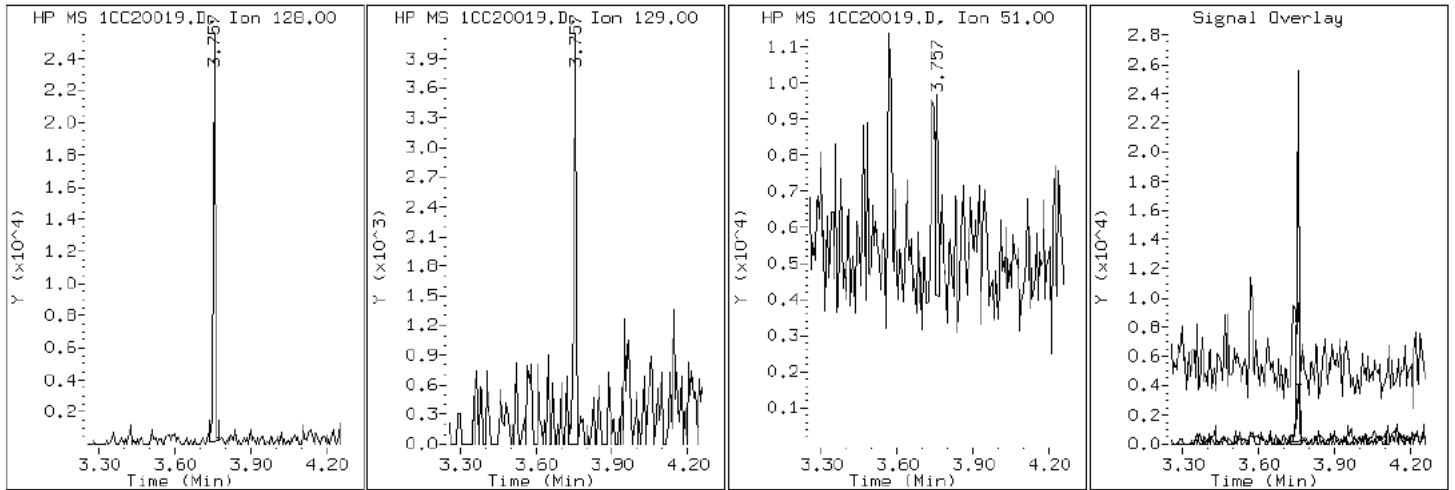
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

2 Naphthalene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

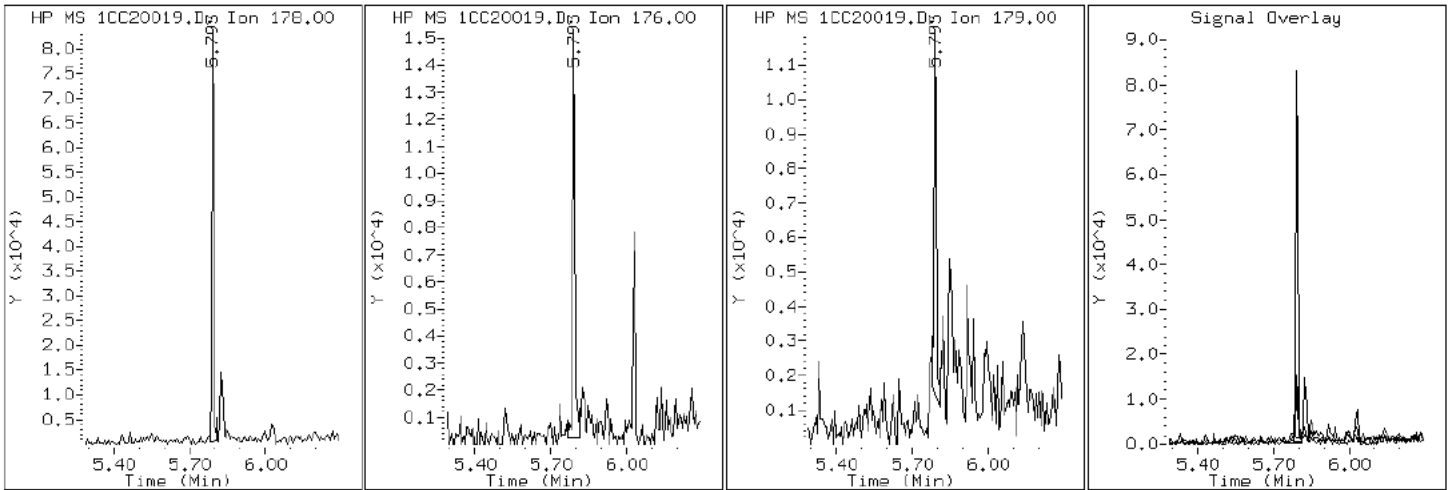
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20019.D

Date: 20-MAR-2013 15:31

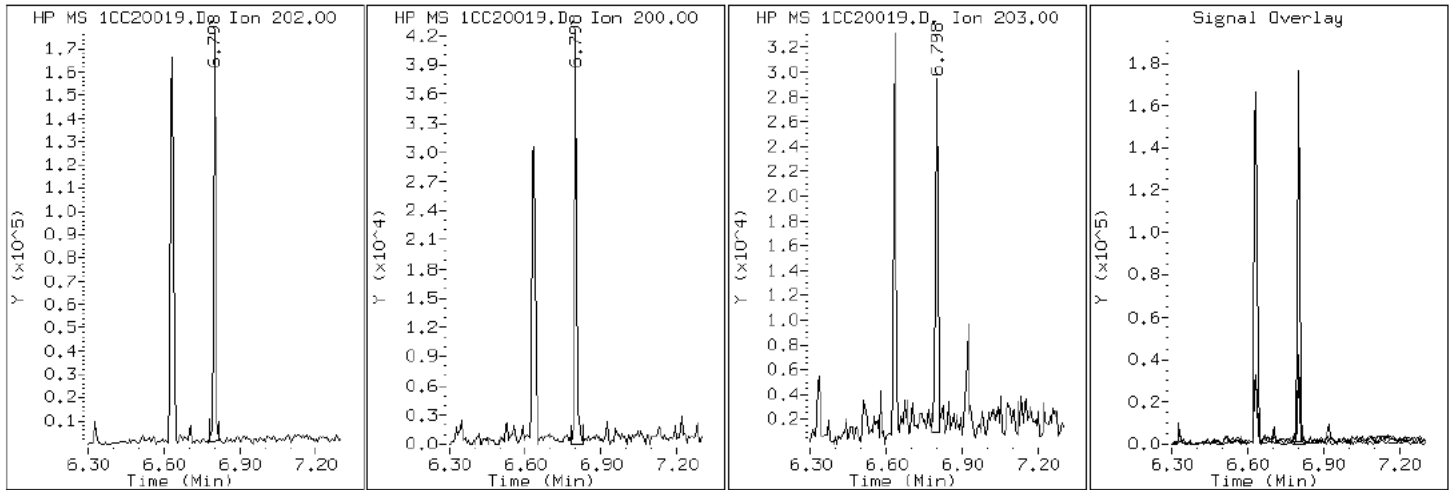
Client ID: CV0207A-CSD

Instrument: BSMC5973.i

Sample Info: 680-88176-a-12-a

Operator: SCC

16 Pyrene

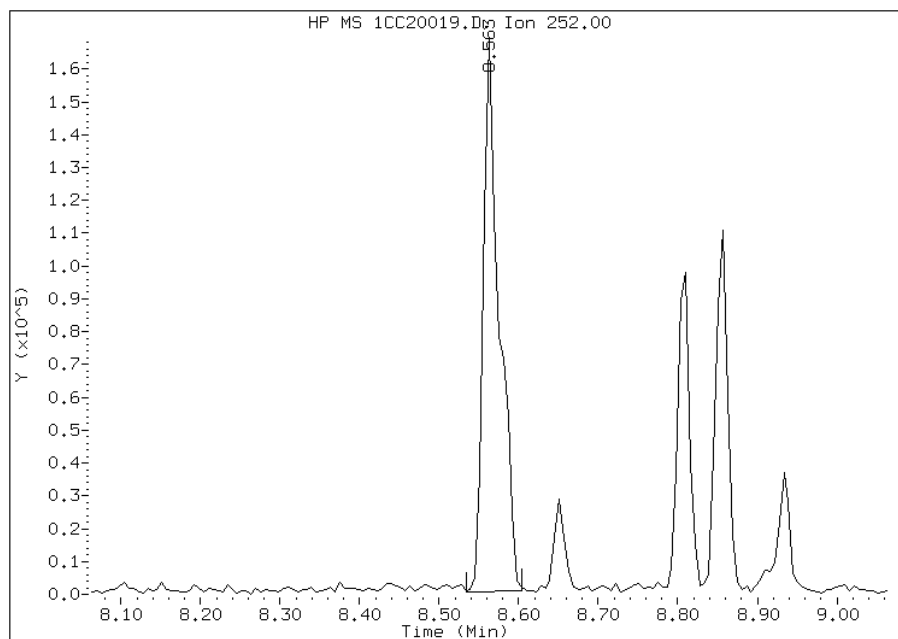


Manual Integration Report

Data File: 1CC20019.D
Inj. Date and Time: 20-MAR-2013 15:31
Instrument ID: BSMC5973.i
Client ID: CV0207A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

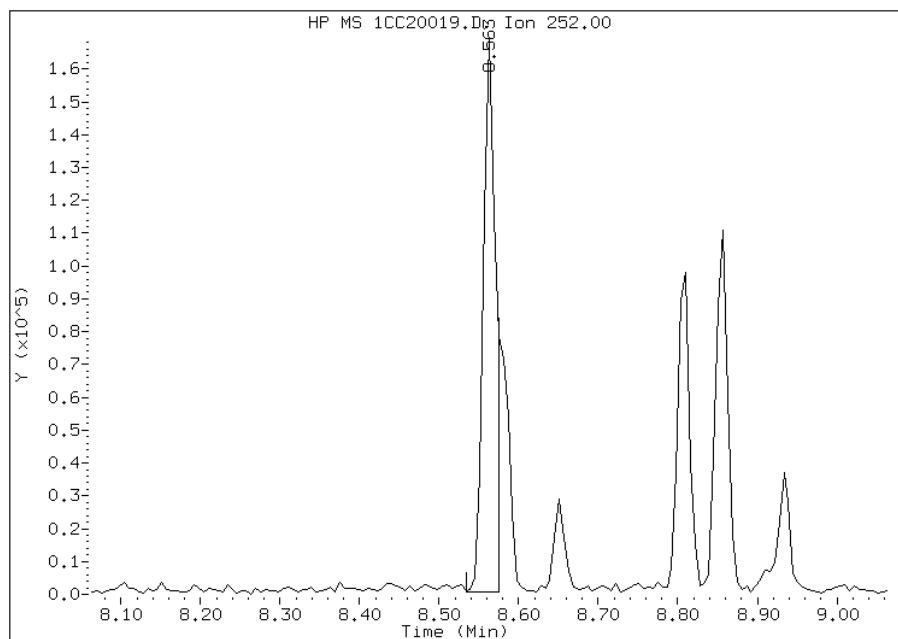
Processing Integration Results

RT: 8.56
Response: 236129
Amount: 6
Conc: 495



Manual Integration Results

RT: 8.56
Response: 182408
Amount: 5
Conc: 382



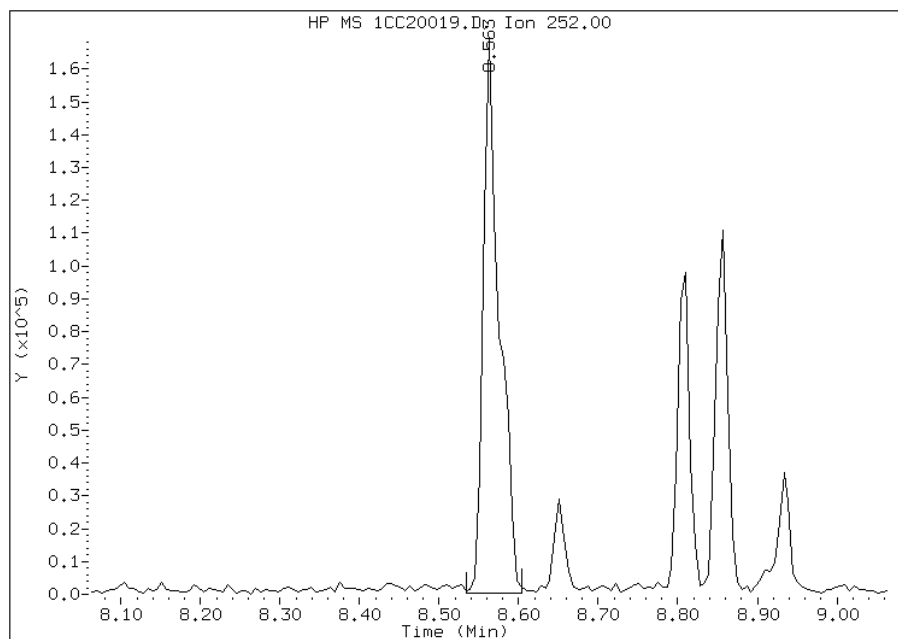
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 09:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20019.D
Inj. Date and Time: 20-MAR-2013 15:31
Instrument ID: BSMC5973.i
Client ID: CV0207A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

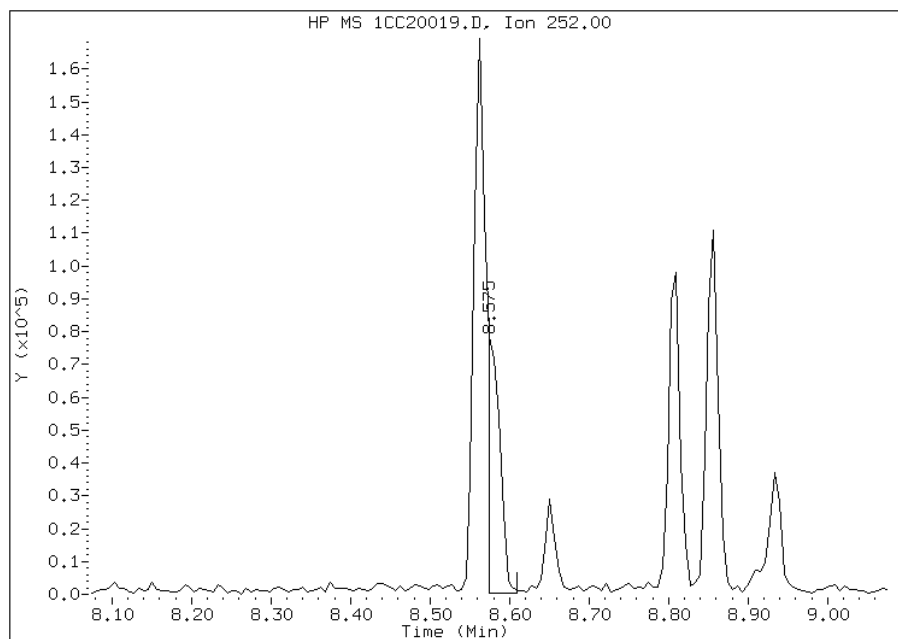
Processing Integration Results

RT: 8.56
Response: 237755
Amount: 6
Conc: 486



Manual Integration Results

RT: 8.57
Response: 82850
Amount: 2
Conc: 169



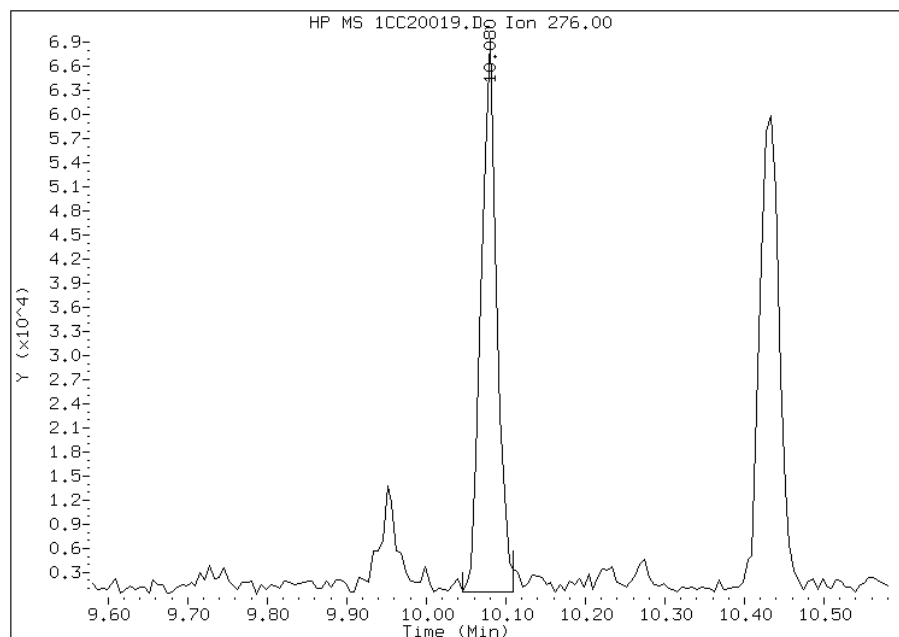
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 09:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20019.D
Inj. Date and Time: 20-MAR-2013 15:31
Instrument ID: BSMC5973.i
Client ID: CV0207A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

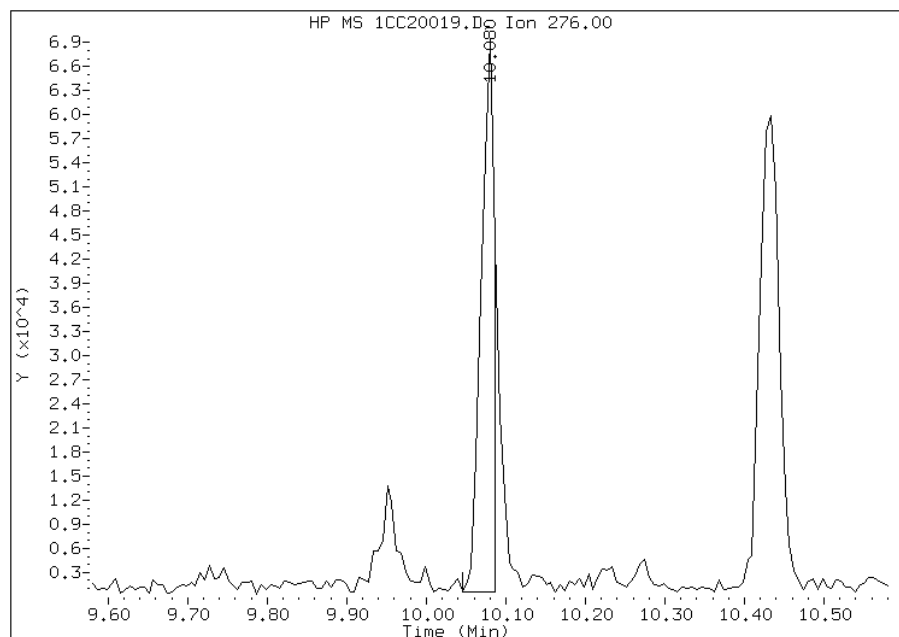
Processing Integration Results

RT: 10.08
Response: 93581
Amount: 3
Conc: 215



Manual Integration Results

RT: 10.08
Response: 79176
Amount: 2
Conc: 182



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 09:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0207B-CS Lab Sample ID: 680-88176-13
 Matrix: Solid Lab File ID: 1CC20020.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 12:40
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 14.91(g) Date Analyzed: 03/20/2013 15:50
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 20.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	25
208-96-8	Acenaphthylene	35	J	51	6.4
120-12-7	Anthracene	54		11	5.3
56-55-3	Benzo[a]anthracene	200		10	5.0
50-32-8	Benzo[a]pyrene	200		13	6.6
205-99-2	Benzo[b]fluoranthene	440		15	7.7
191-24-2	Benzo[g,h,i]perylene	190		25	5.6
207-08-9	Benzo[k]fluoranthene	91		10	4.6
218-01-9	Chrysene	450		11	5.7
53-70-3	Dibenz(a,h)anthracene	76		25	5.2
206-44-0	Fluoranthene	320		25	5.1
86-73-7	Fluorene	42		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	97		25	9.0
90-12-0	1-Methylnaphthalene	380		51	5.6
91-57-6	2-Methylnaphthalene	390		51	9.0
91-20-3	Naphthalene	280		51	5.6
85-01-8	Phenanthrene	450		10	5.0
129-00-0	Pyrene	330		25	4.7

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\1C032013.b\1CC20020.D
 Lab Smp Id: 680-88176-A-13-A Client Smp ID: CV0207B-CS
 Inj Date : 20-MAR-2013 15:50
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-13-a
 Misc Info : 680-88176-A-13-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 20
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.910	Weight Extracted
M	20.798	% 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		3.745	3.745	(1.000)	941712	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.827	(1.000)	718395	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1367522	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.027	(1.044)	143062	6.92886	586.7458	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1458099	40.0000		
* 23 Perylene-d12	264		8.909	8.909	(1.000)	1382227	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	82476	3.36413	284.8788	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	76235	4.66170	394.7595	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	67288	4.51776	382.5705	
5 Acenaphthylene	152		4.745	4.745	(0.982)	12011	0.41470	35.1169	
9 Fluorene	166		5.168	5.169	(1.069)	11392	0.50037	42.3717(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	210755	5.32981	451.3355	
12 Anthracene	178		5.827	5.827	(1.008)	24511	0.63381	53.6718	
13 Carbazole	167		5.939	5.933	(1.027)	22505	0.65465	55.4366	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.633	6.633	(1.148)	164408	3.79660	321.5011
16 Pyrene	202	6.798	6.798	(0.880)	152310	3.88701	329.1577
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	101259	2.40614	203.7554(Q)
19 Chrysene	228	7.739	7.739	(1.002)	222674	5.28726	447.7328
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	186769	5.17040	437.8367(M)
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.963)	39836	1.07501	91.0335(QM)
22 Benzo(a)pyrene	252	8.856	8.857	(0.994)	82815	2.36028	199.8714
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	37776	1.14449	96.9167(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.098	(1.133)	29072	0.90047	76.2529
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.171)	78288	2.26738	192.0044

QC Flag Legend

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

Data File: 1CC20020.D

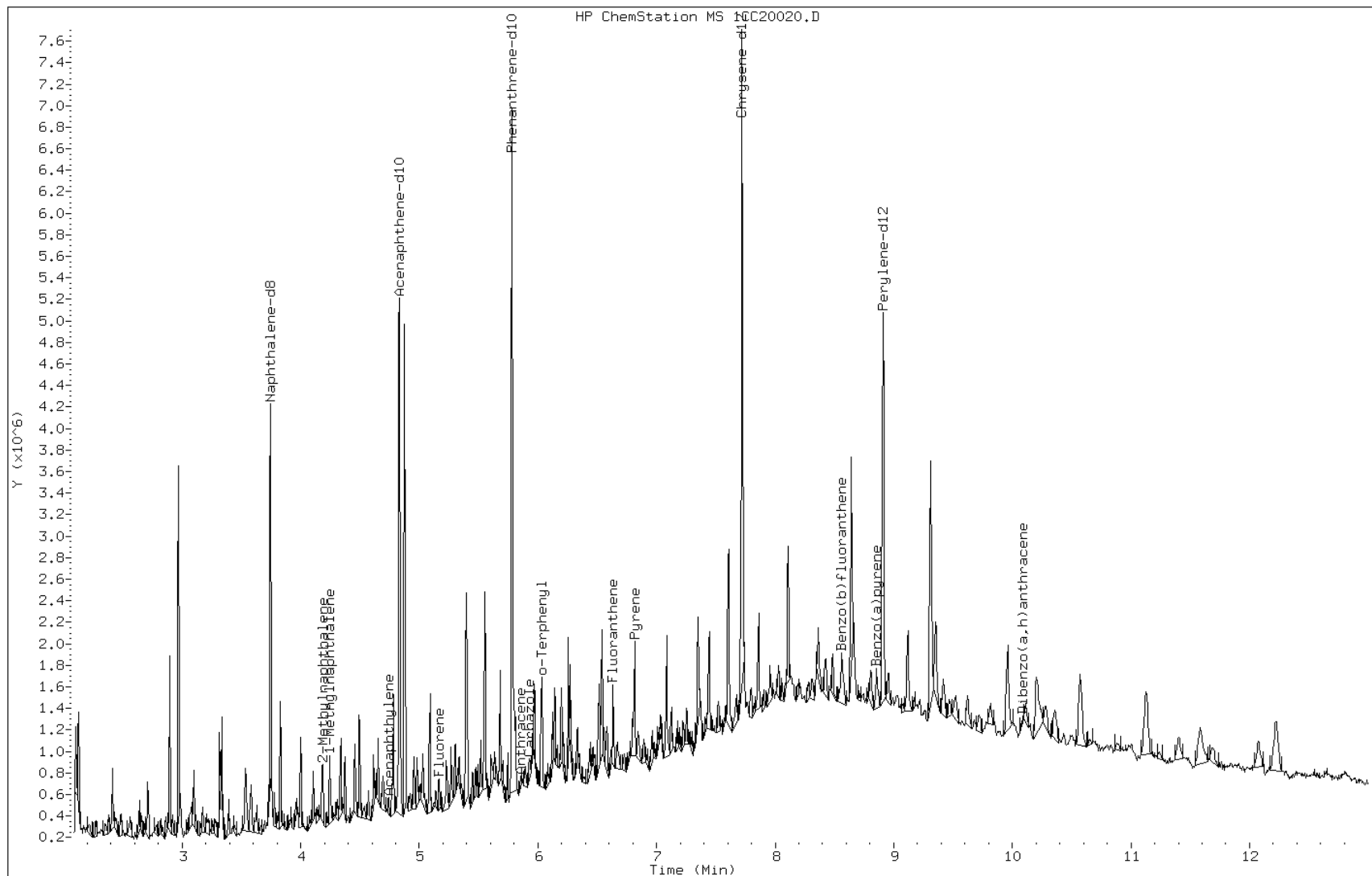
Date: 20-MAR-2013 15:50

Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

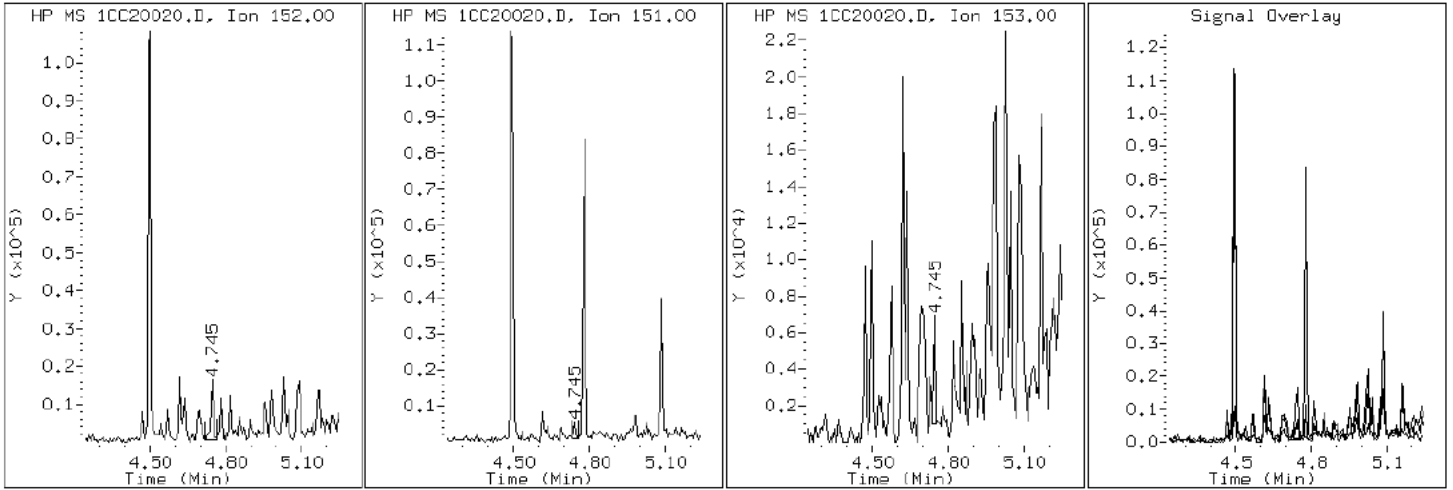
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

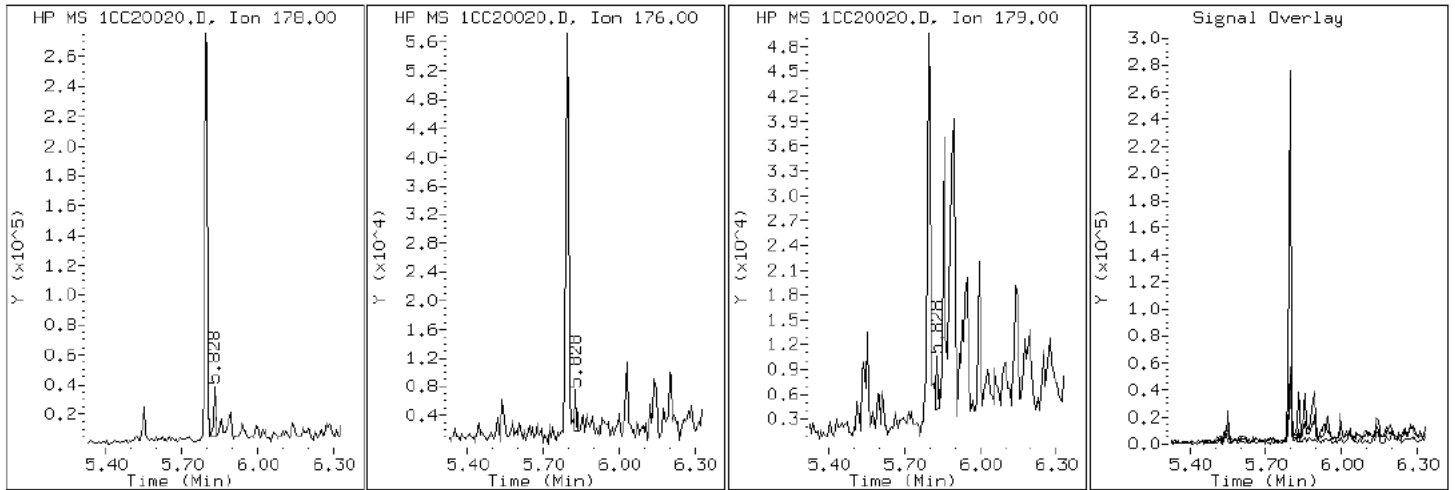
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

12 Anthracene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

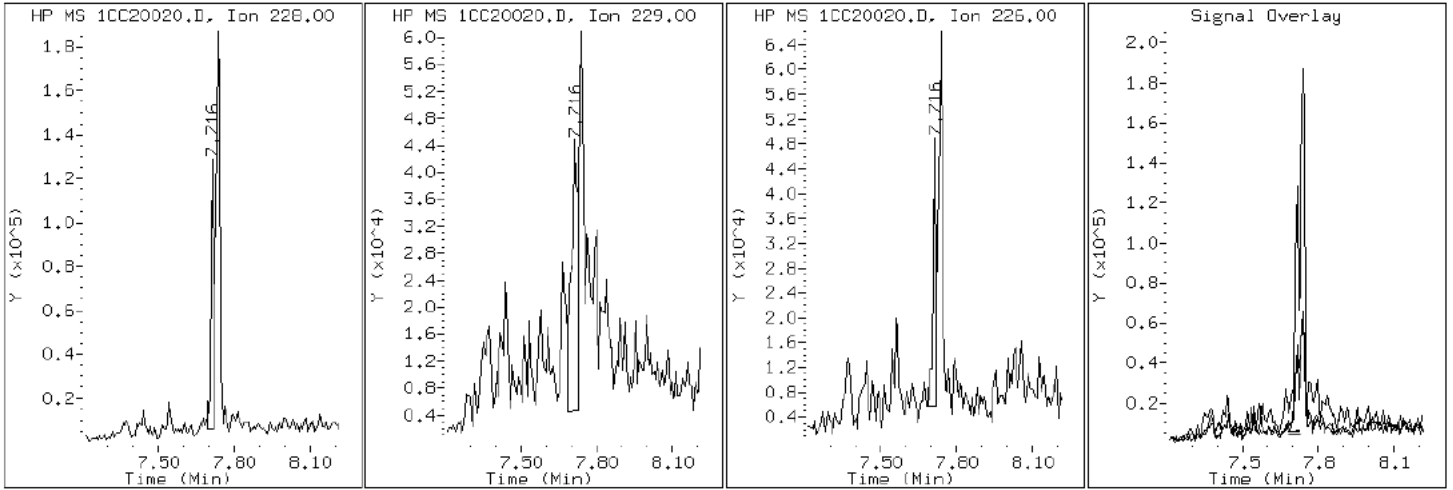
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

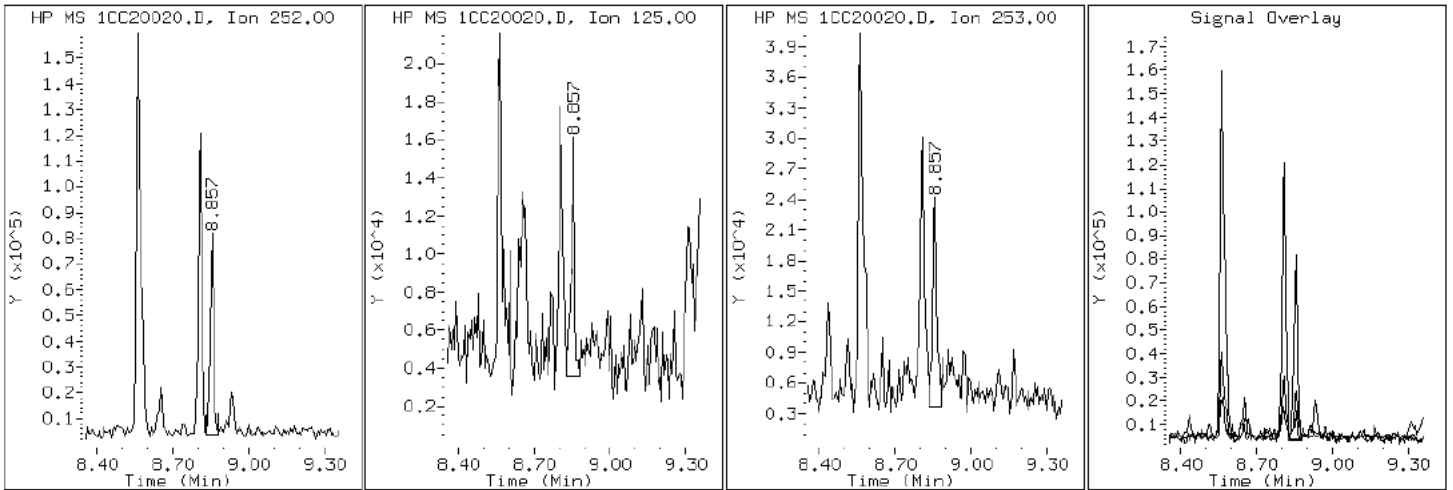
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

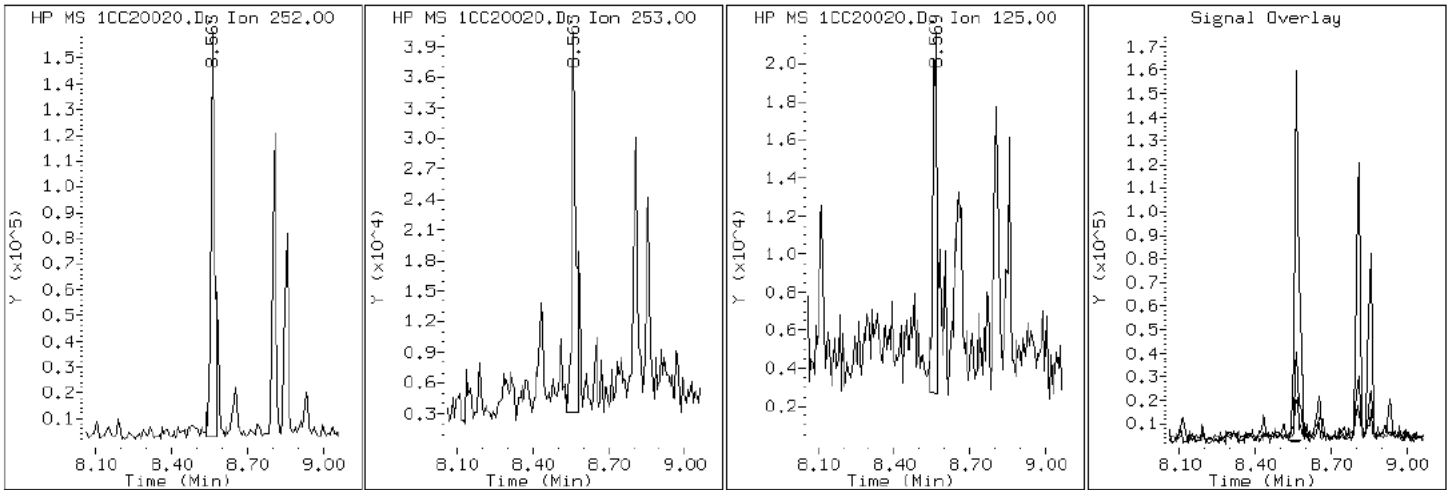
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

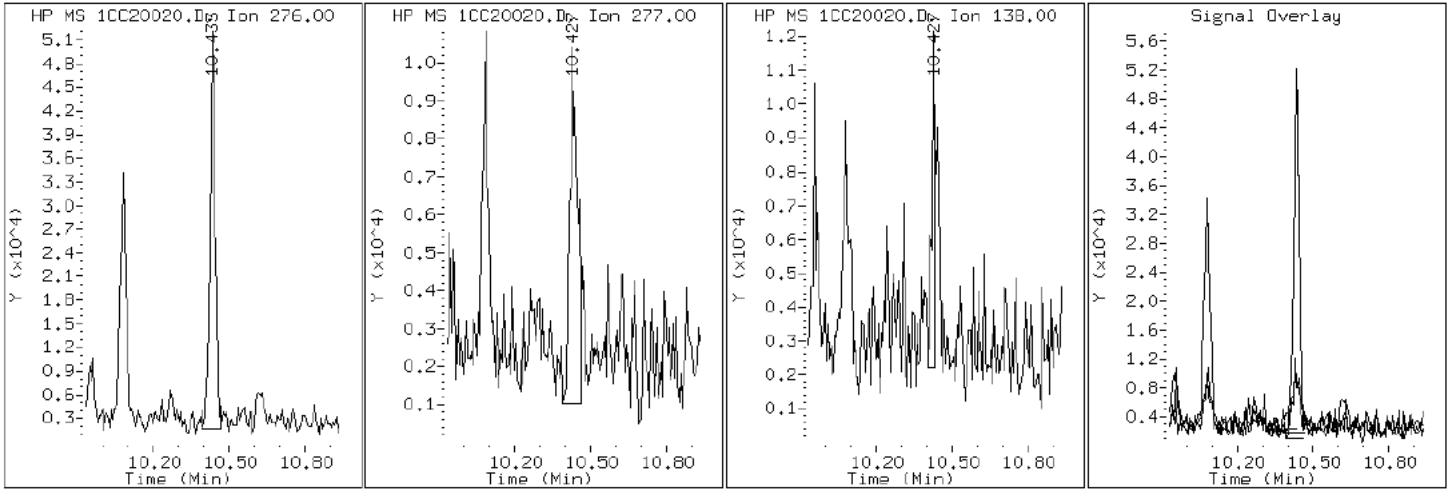
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

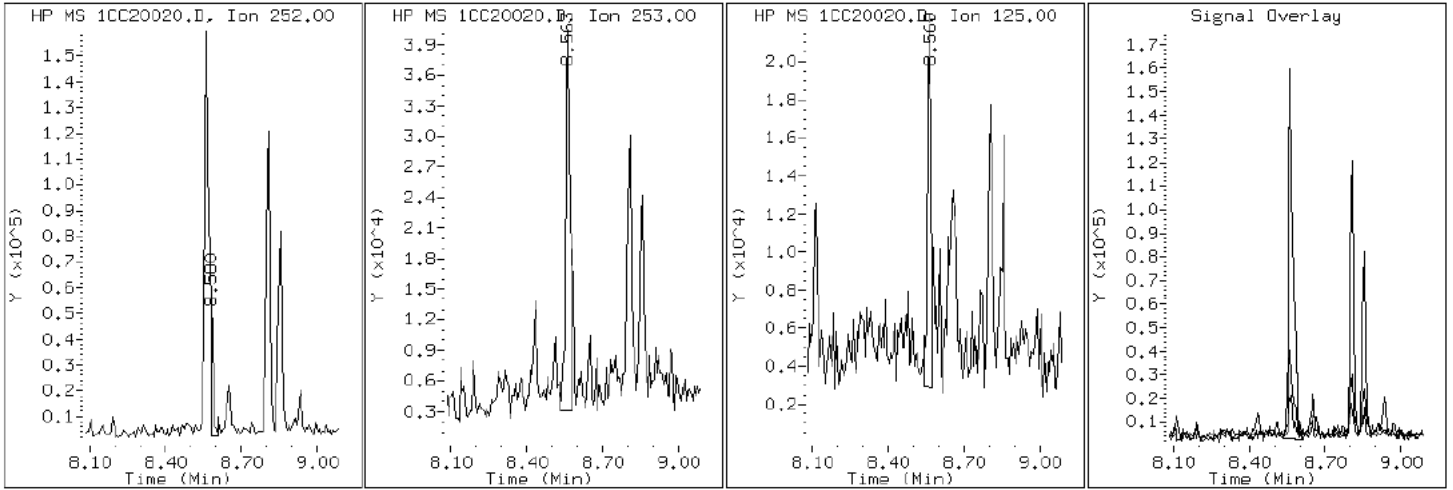
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

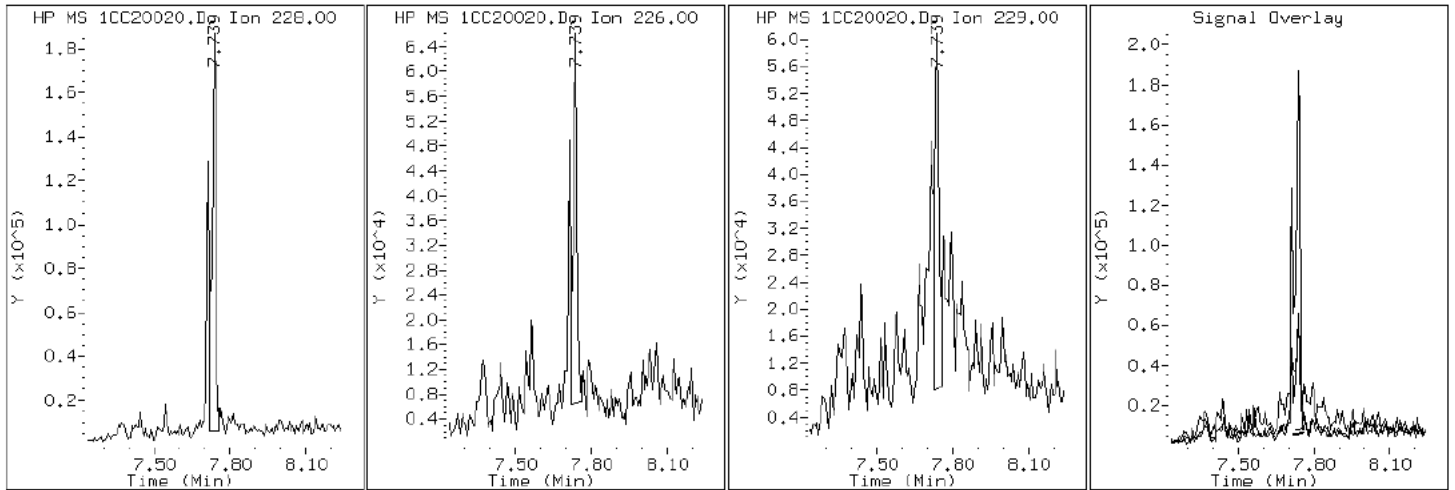
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

19 Chrysene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

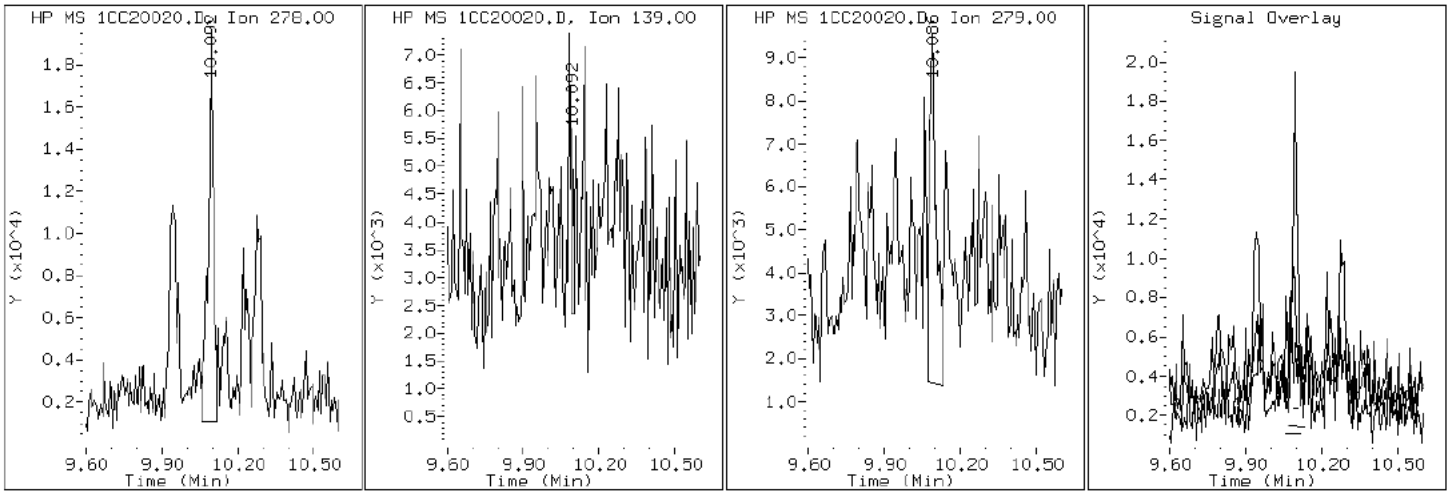
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

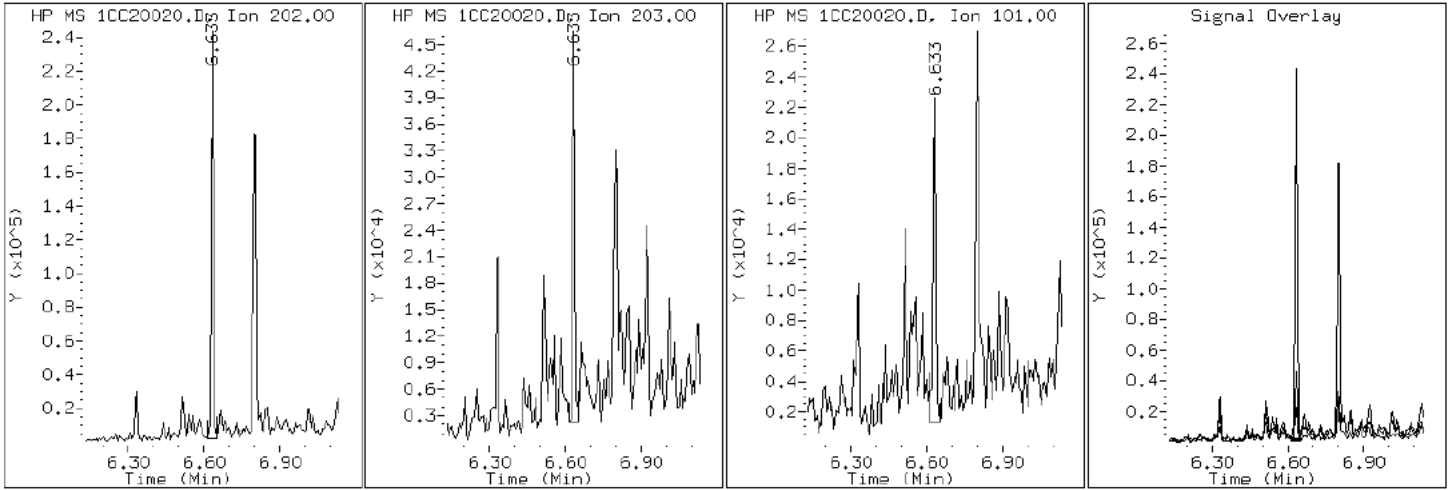
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

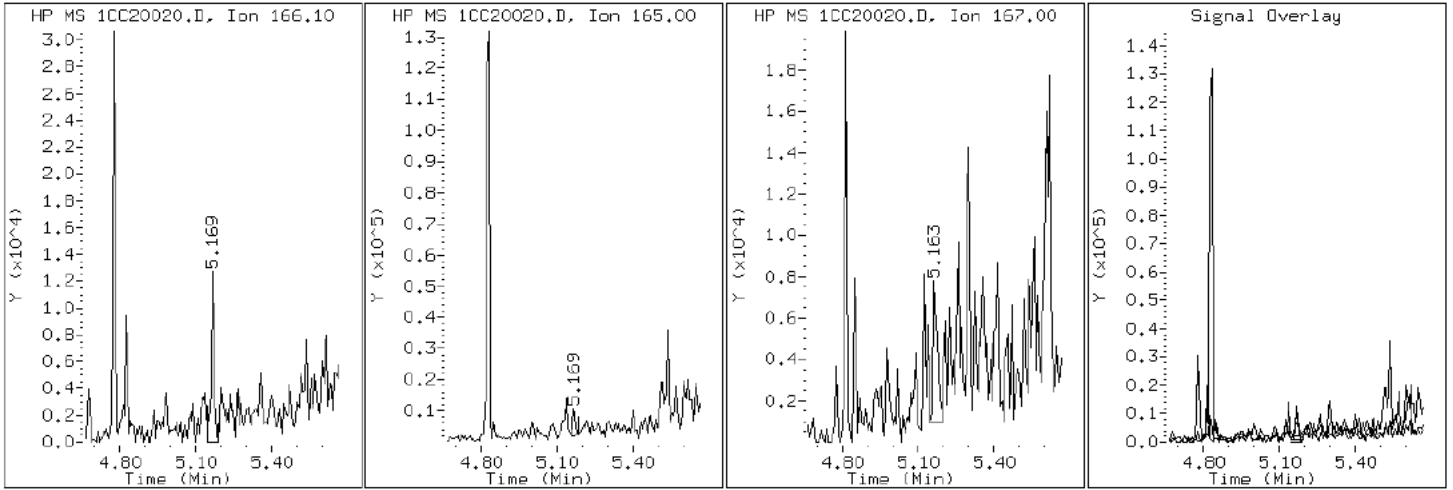
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

9 Fluorene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

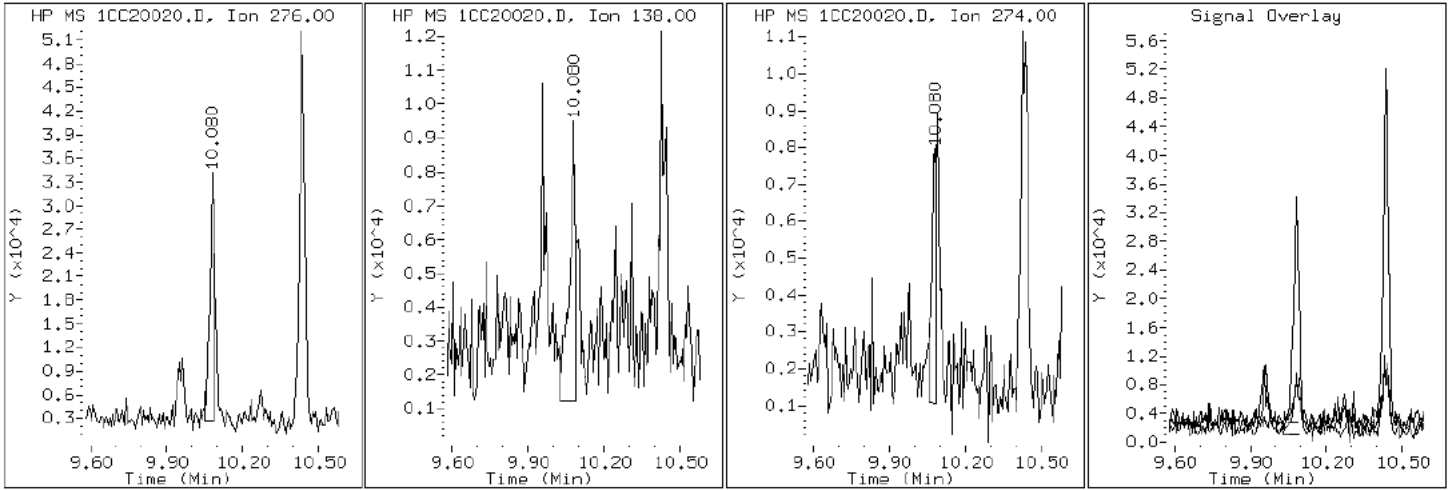
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

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



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

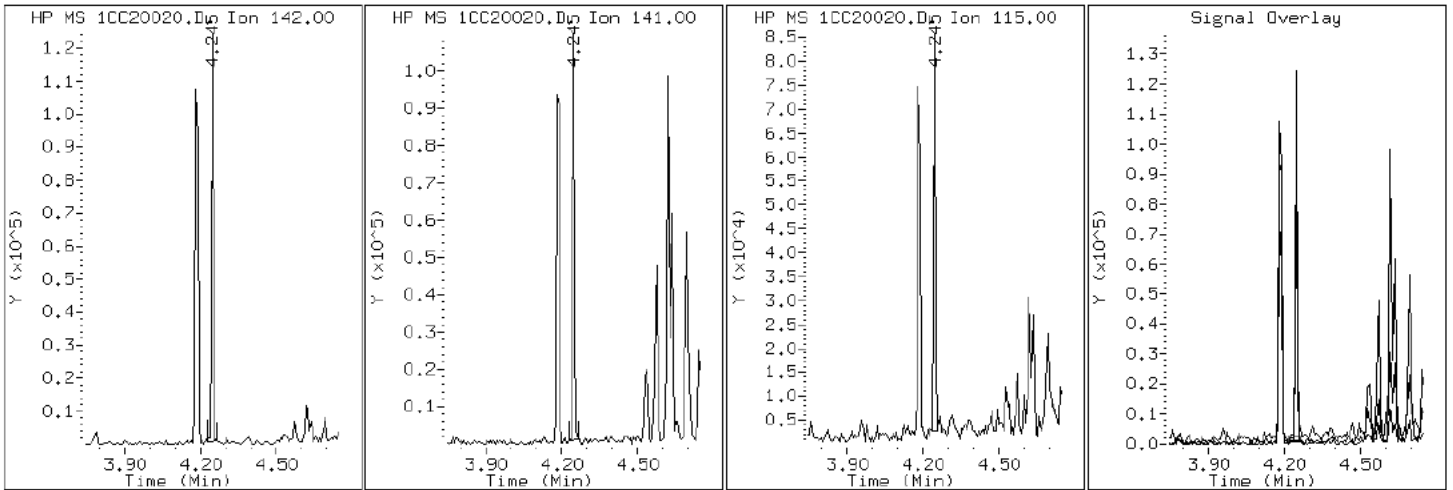
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

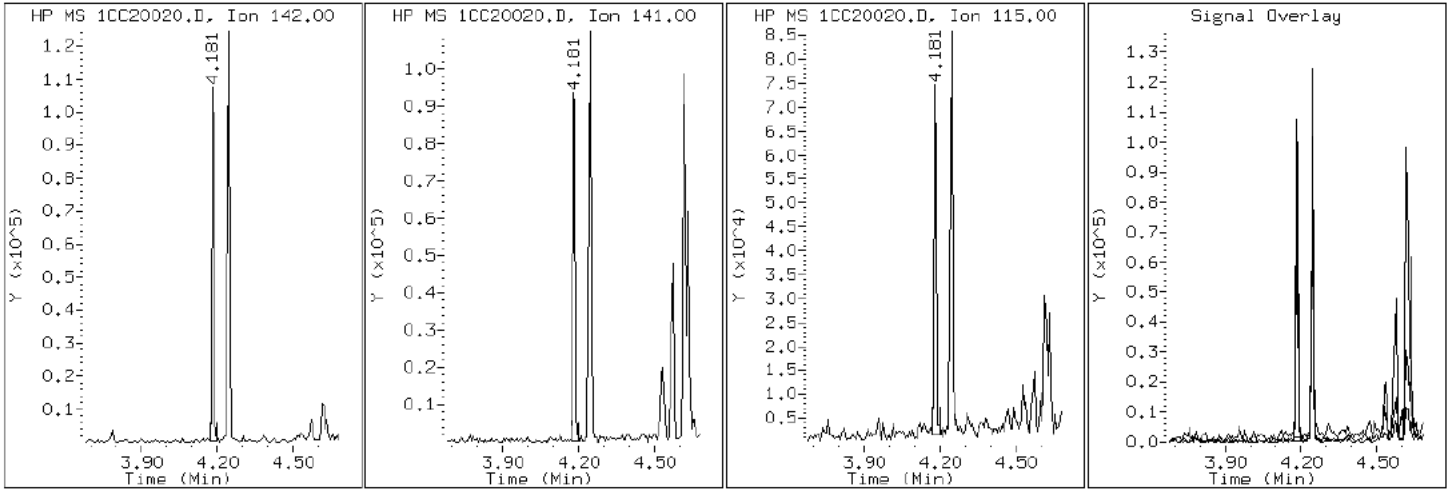
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

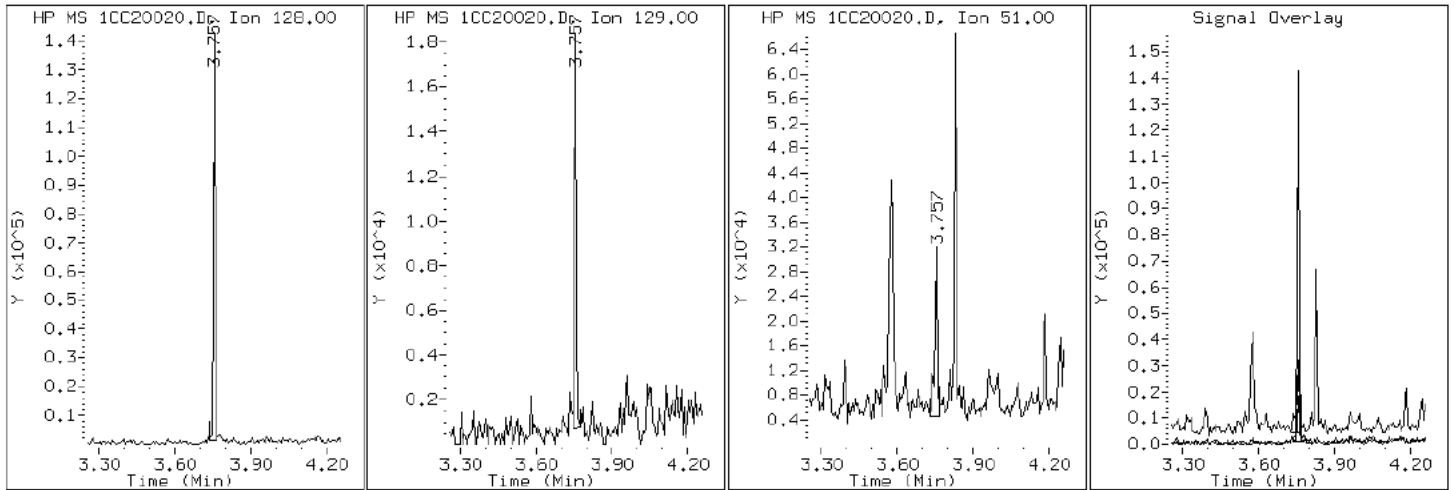
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

2 Naphthalene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

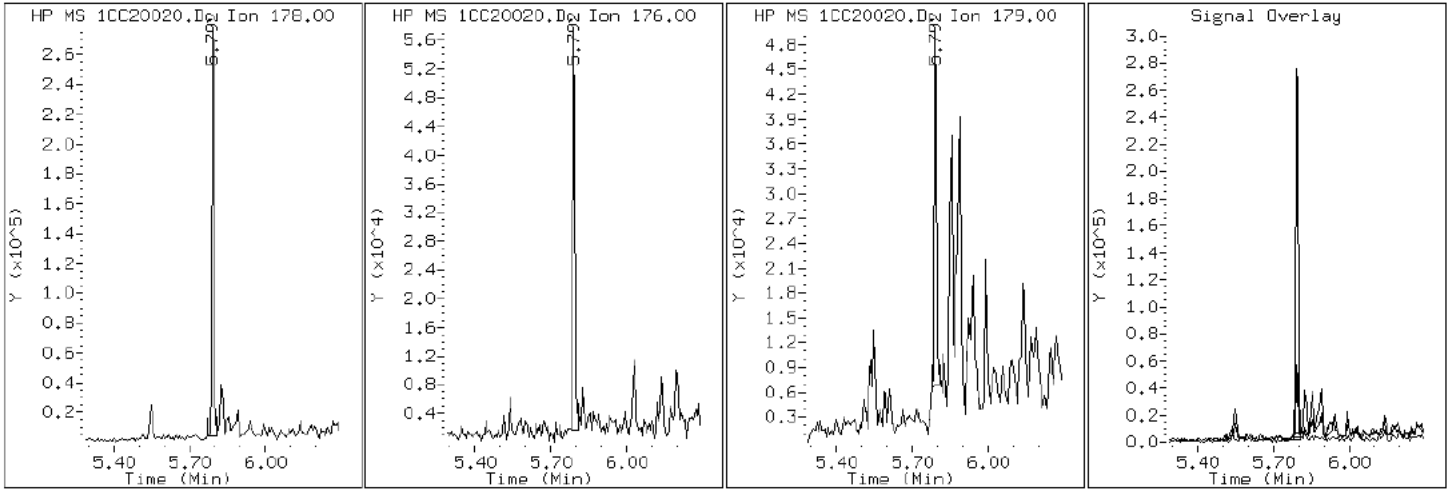
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20020.D

Date: 20-MAR-2013 15:50

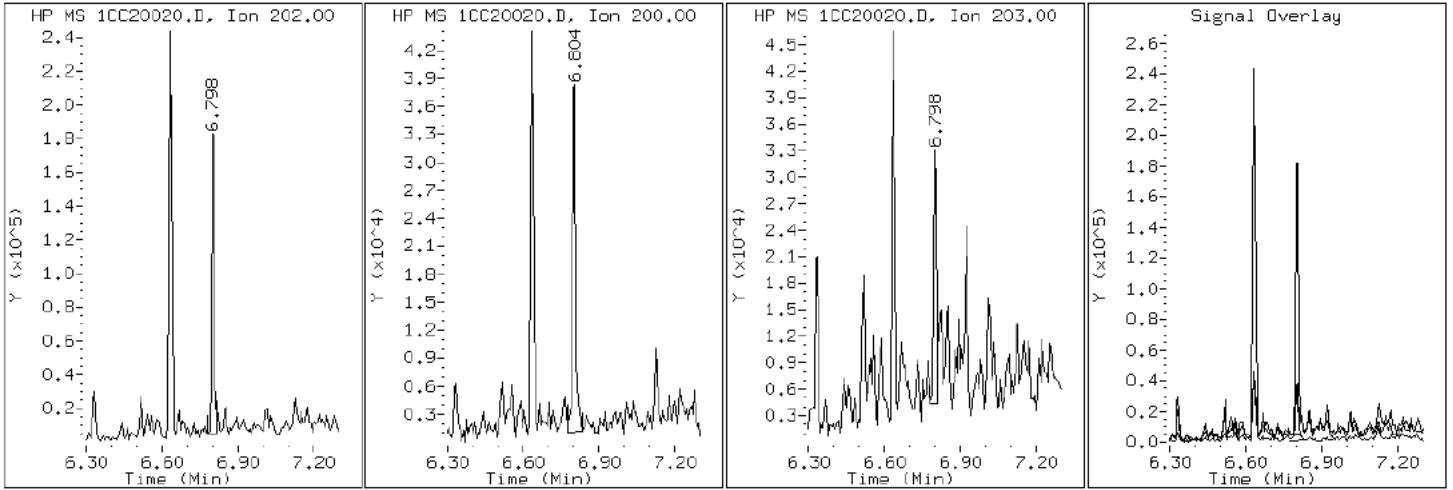
Client ID: CV0207B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-13-a

Operator: SCC

16 Pyrene

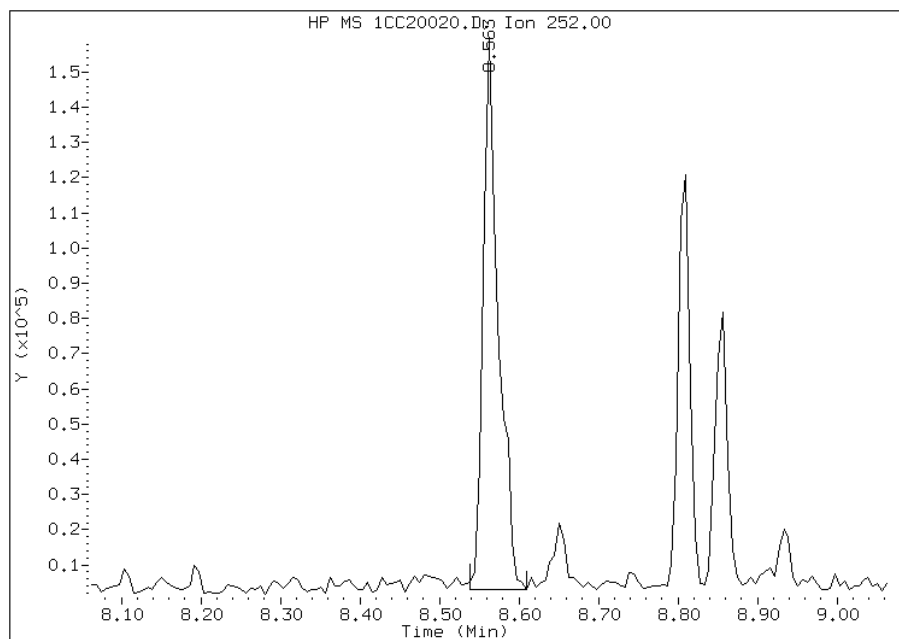


Manual Integration Report

Data File: 1CC20020.D
Inj. Date and Time: 20-MAR-2013 15:50
Instrument ID: BSMC5973.i
Client ID: CV0207B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

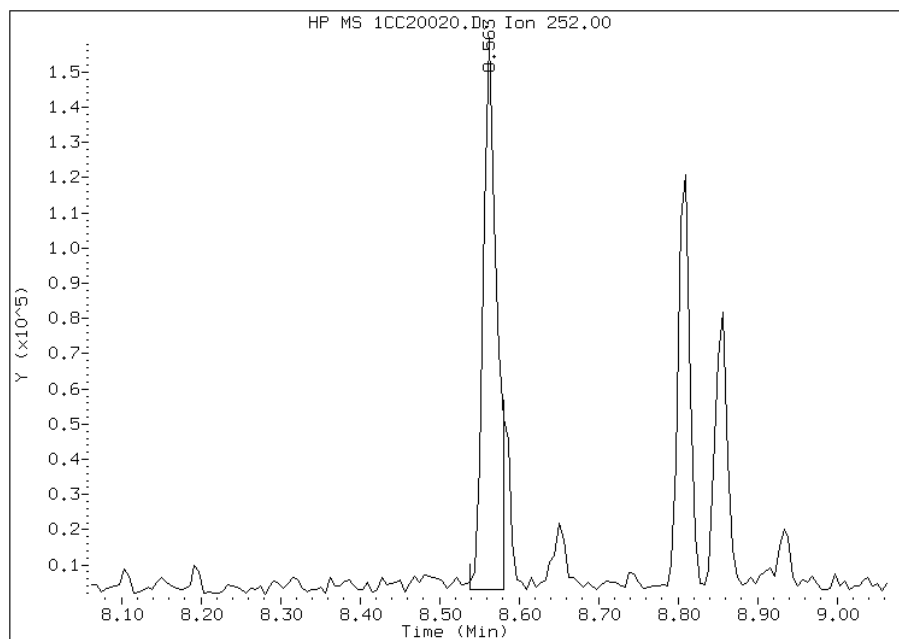
Processing Integration Results

RT: 8.56
Response: 208315
Amount: 6
Conc: 488



Manual Integration Results

RT: 8.56
Response: 186769
Amount: 5
Conc: 438



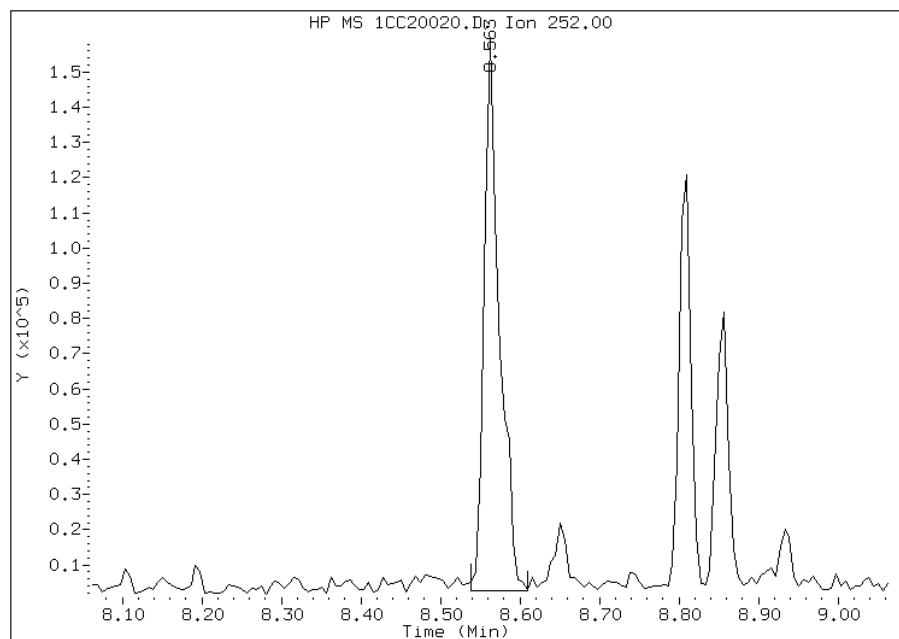
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:00
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20020.D
Inj. Date and Time: 20-MAR-2013 15:50
Instrument ID: BSMC5973.i
Client ID: CV0207B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

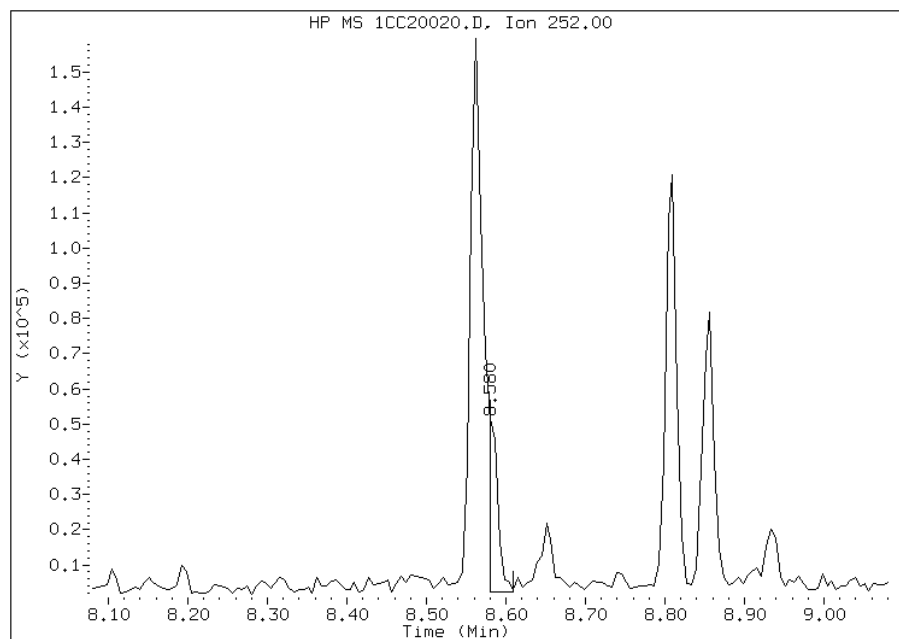
Processing Integration Results

RT: 8.56
Response: 208838
Amount: 6
Conc: 477



Manual Integration Results

RT: 8.58
Response: 39836
Amount: 1
Conc: 91



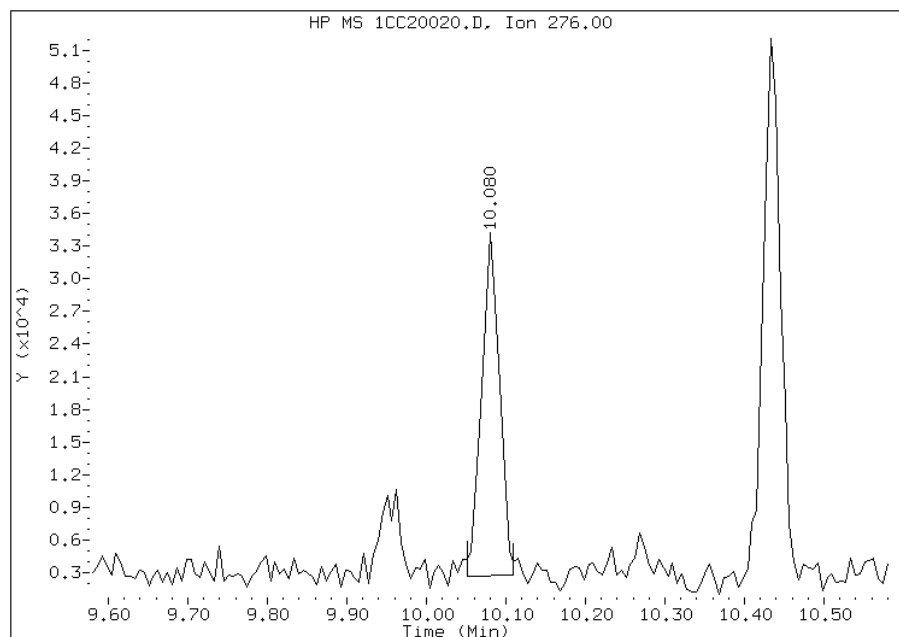
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:00
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20020.D
Inj. Date and Time: 20-MAR-2013 15:50
Instrument ID: BSMC5973.i
Client ID: CV0207B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

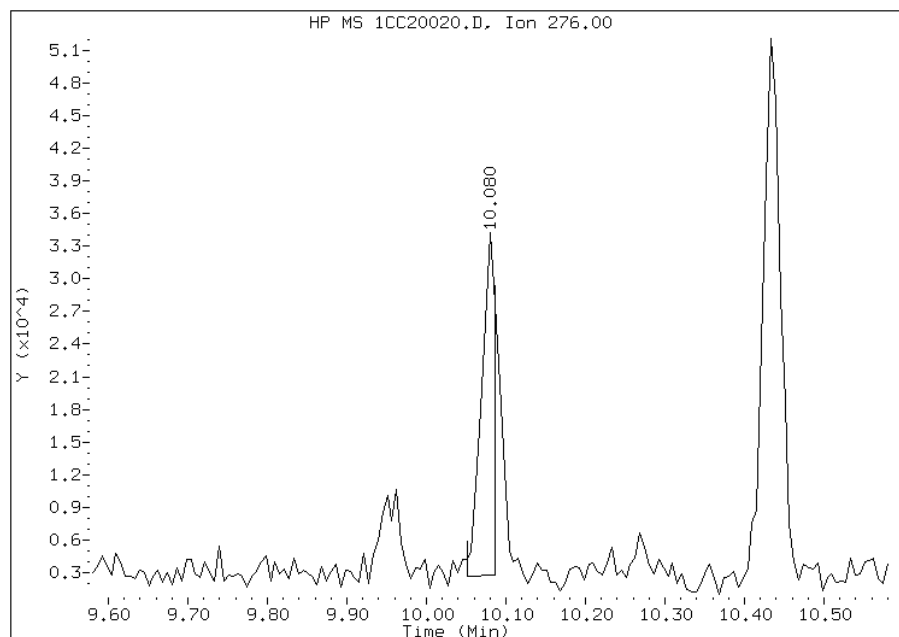
Processing Integration Results

RT: 10.08
Response: 48591
Amount: 1
Conc: 125



Manual Integration Results

RT: 10.08
Response: 37776
Amount: 1
Conc: 97



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0252A-CS Lab Sample ID: 680-88176-14
 Matrix: Solid Lab File ID: 1CC20021.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 13:00
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.11(g) Date Analyzed: 03/20/2013 16:08
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 27.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	27
208-96-8	Acenaphthylene	190		55	6.8
120-12-7	Anthracene	140		11	5.7
56-55-3	Benzo[a]anthracene	560		11	5.3
50-32-8	Benzo[a]pyrene	610		14	7.1
205-99-2	Benzo[b]fluoranthene	1200		17	8.3
191-24-2	Benzo[g,h,i]perylene	490		27	6.0
207-08-9	Benzo[k]fluoranthene	380		11	4.9
218-01-9	Chrysene	710		12	6.1
53-70-3	Dibenz(a,h)anthracene	150		27	5.6
206-44-0	Fluoranthene	760		27	5.5
86-73-7	Fluorene	49		27	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	400		27	9.7
90-12-0	1-Methylnaphthalene	280		55	6.0
91-57-6	2-Methylnaphthalene	200		55	9.7
91-20-3	Naphthalene	210		55	6.0
85-01-8	Phenanthrene	590		11	5.3
129-00-0	Pyrene	780		27	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	54		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20021.D
 Lab Smp Id: 680-88176-A-14-A Client Smp ID: CV0252A-CS
 Inj Date : 20-MAR-2013 16:08
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-14-a
 Misc Info : 680-88176-A-14-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 21
 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	15.110	Weight Extracted
M	27.232	% 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		3.745	3.745	(1.000)	917301	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	701861	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1331067	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	109057	5.42657	493.5391	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1470428	40.0000		
* 23 Perylene-d12	264		8.915	8.909	(1.000)	1358236	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	56064	2.34766	213.5162	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	35685	2.24018	203.7408	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	44242	3.04949	277.3466	
5 Acenaphthylene	152		4.745	4.745	(0.983)	59286	2.09515	190.5505	
9 Fluorene	166		5.168	5.169	(1.071)	11925	0.53612	48.7590(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	248804	6.46436	587.9243	
12 Anthracene	178		5.827	5.827	(1.008)	59527	1.58142	143.8275	
13 Carbazole	167		5.933	5.933	(1.026)	34257	1.02380	93.1128	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.633	6.633	(1.148)	354415	8.40849	764.7405
16 Pyrene	202	6.798	6.798	(0.880)	340220	8.60976	783.0450
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	262339	6.18150	562.1984
19 Chrysene	228	7.739	7.739	(1.002)	329253	7.75237	705.0670
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.960)	469321	13.2219	1202.5122(M)
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.962)	153637	4.21927	383.7369(QM)
22 Benzo(a)pyrene	252	8.856	8.857	(0.993)	232880	6.75445	614.3077
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.080	(1.131)	142765	4.40170	400.3286(M)
25 Dibenzo(a,h)anthracene	278	10.098	10.098	(1.133)	53027	1.67146	152.0164
26 Benzo(g,h,i)perylene	276	10.439	10.433	(1.171)	181696	5.35522	487.0501

QC Flag Legend

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

Data File: 1CC20021.D

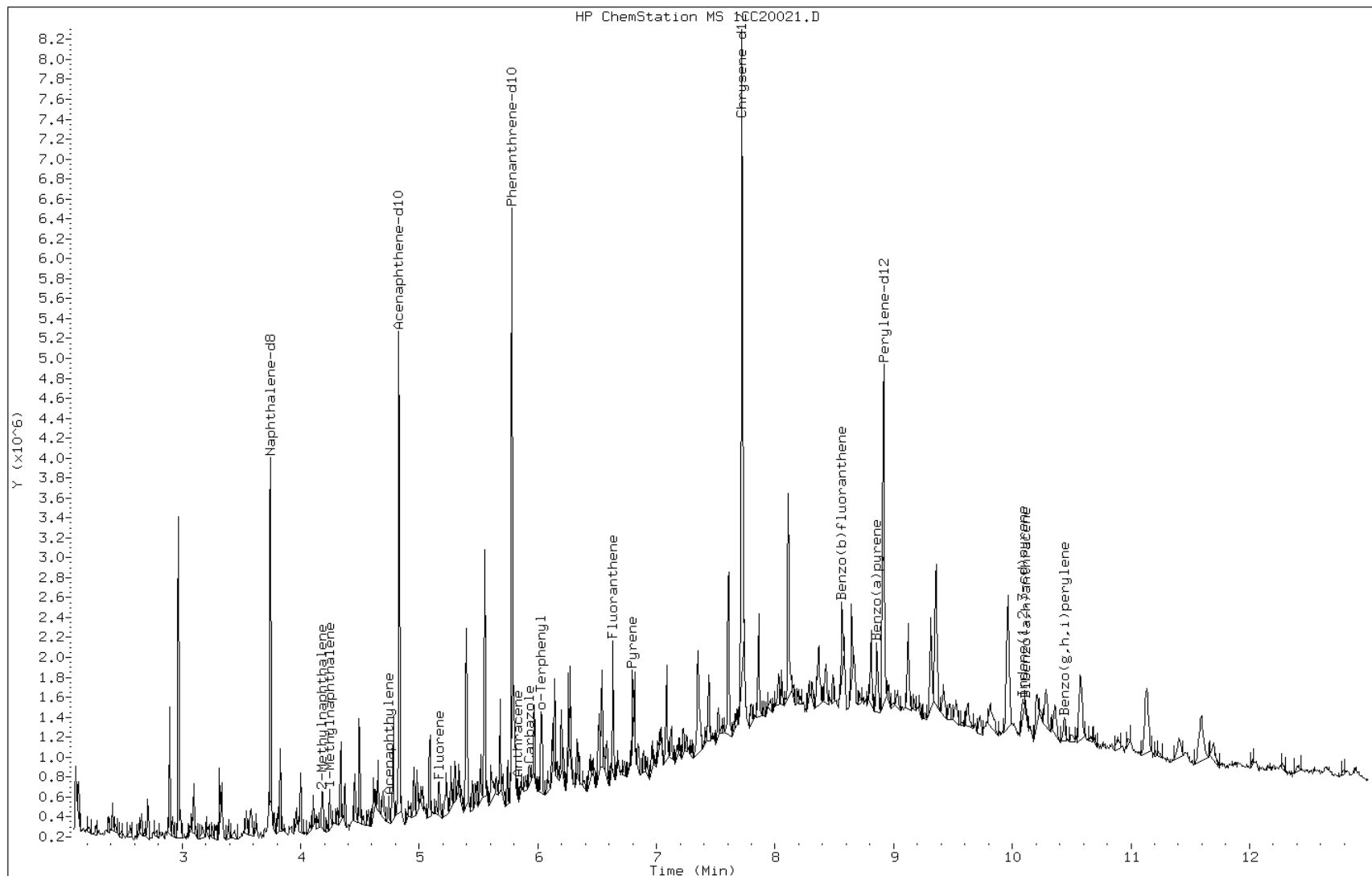
Date: 20-MAR-2013 16:08

Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

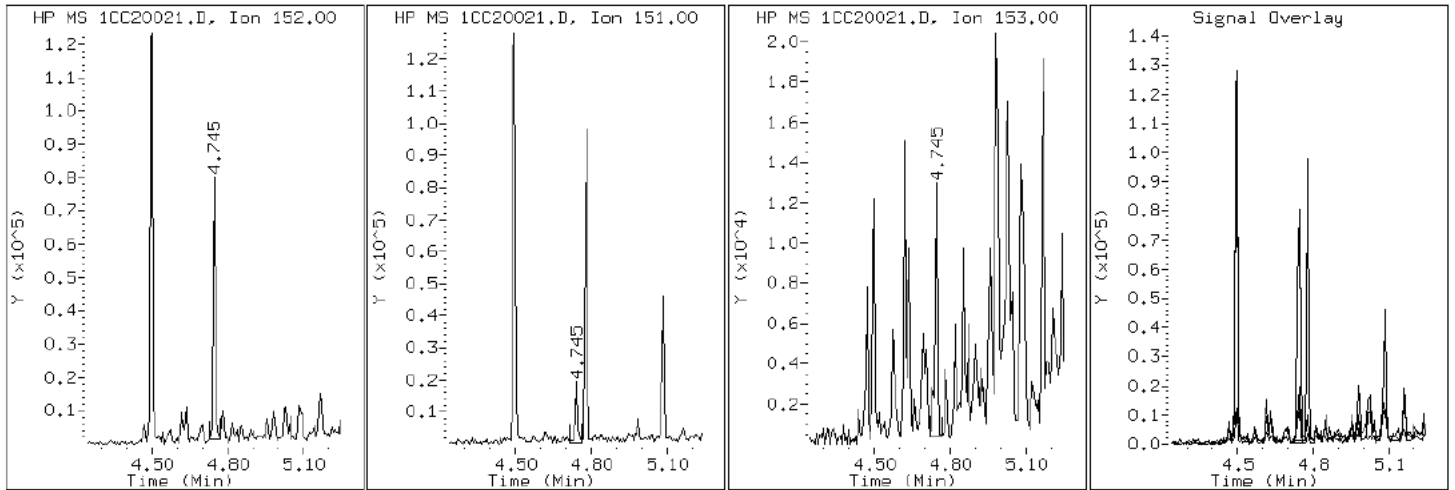
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

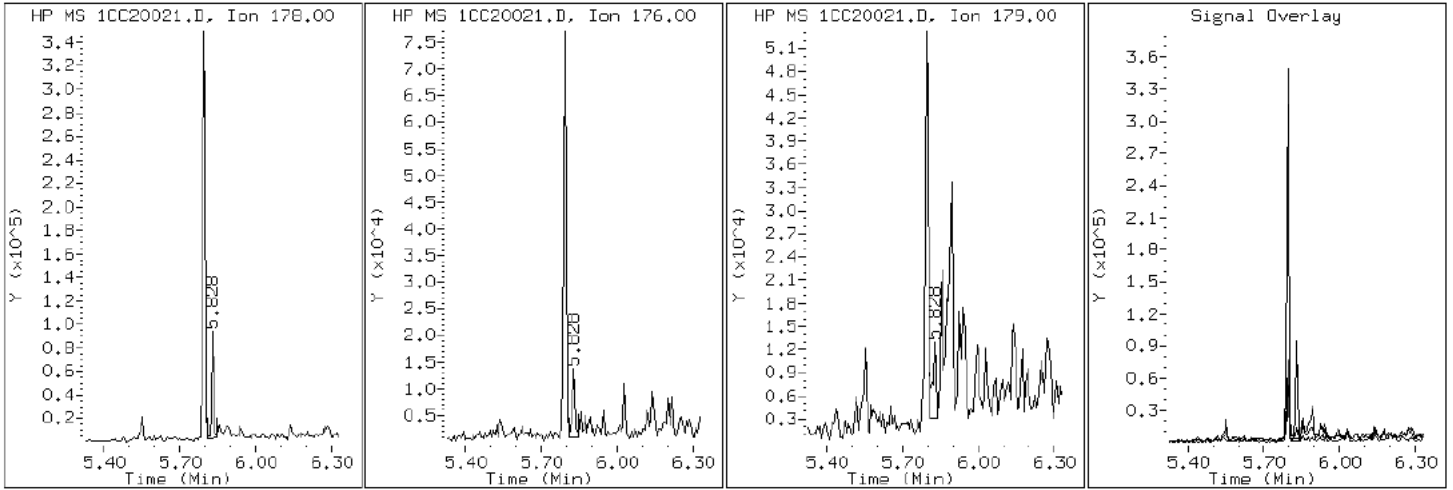
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

12 Anthracene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

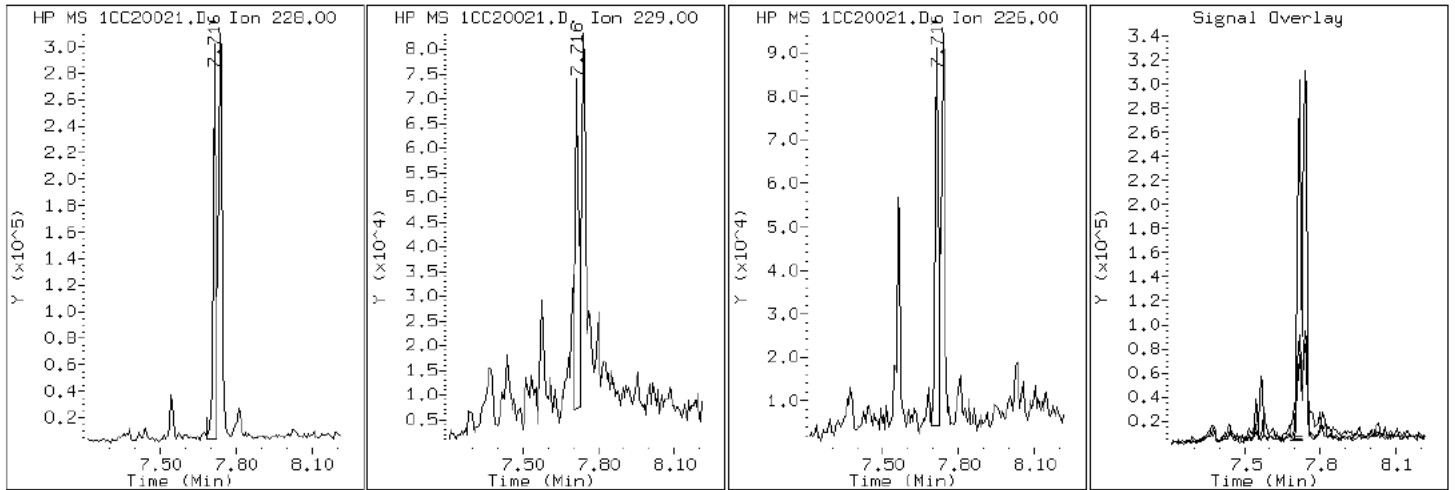
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

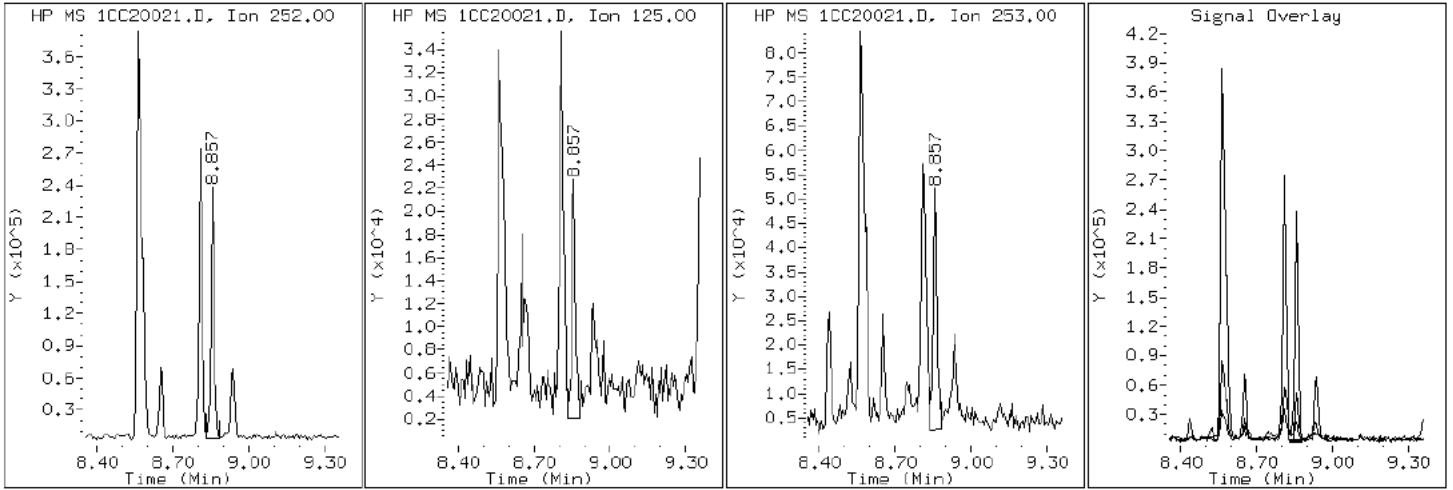
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

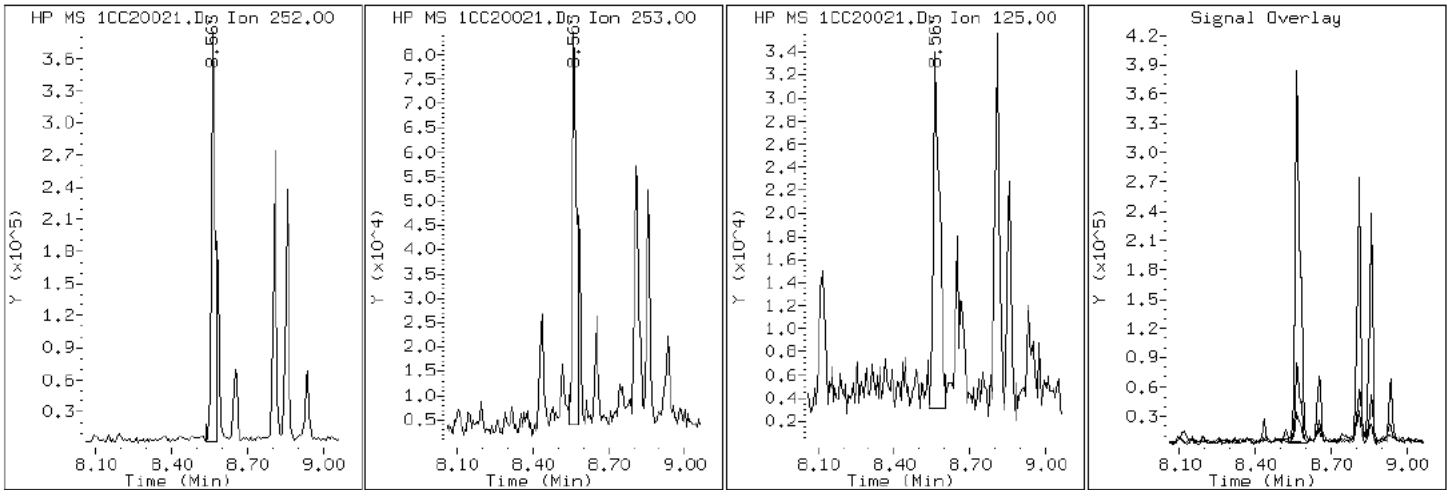
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

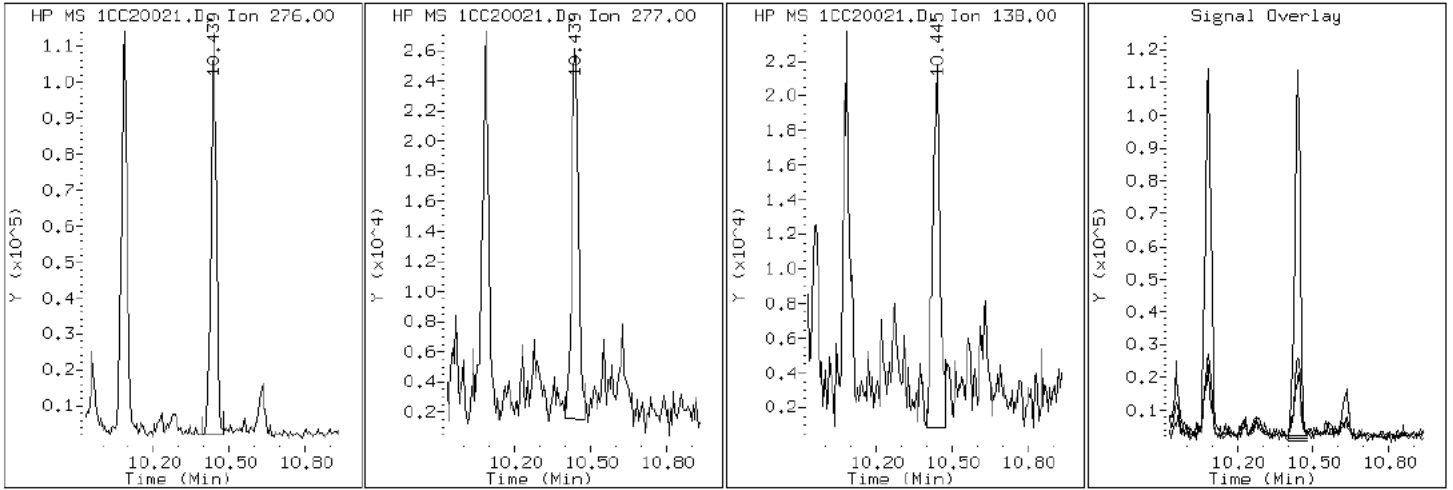
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

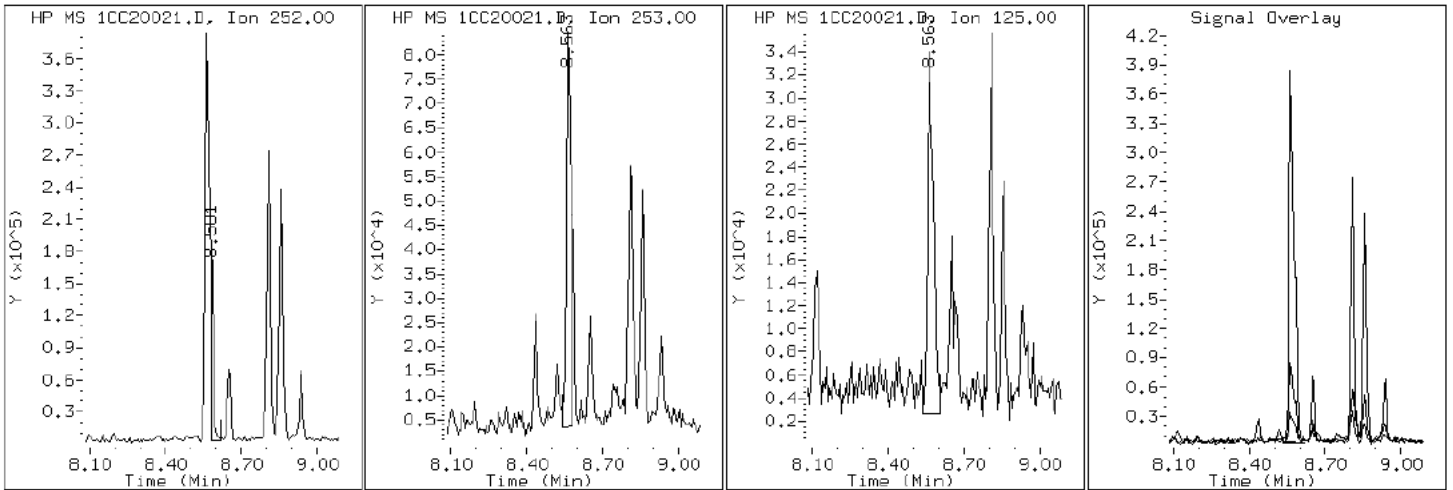
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

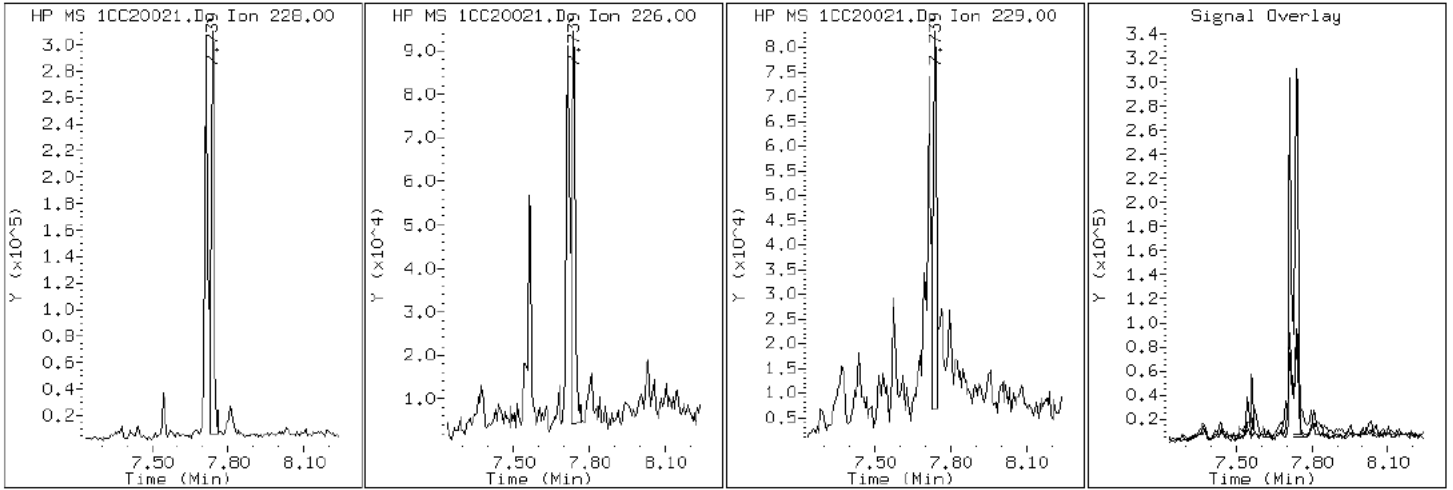
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

19 Chrysene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

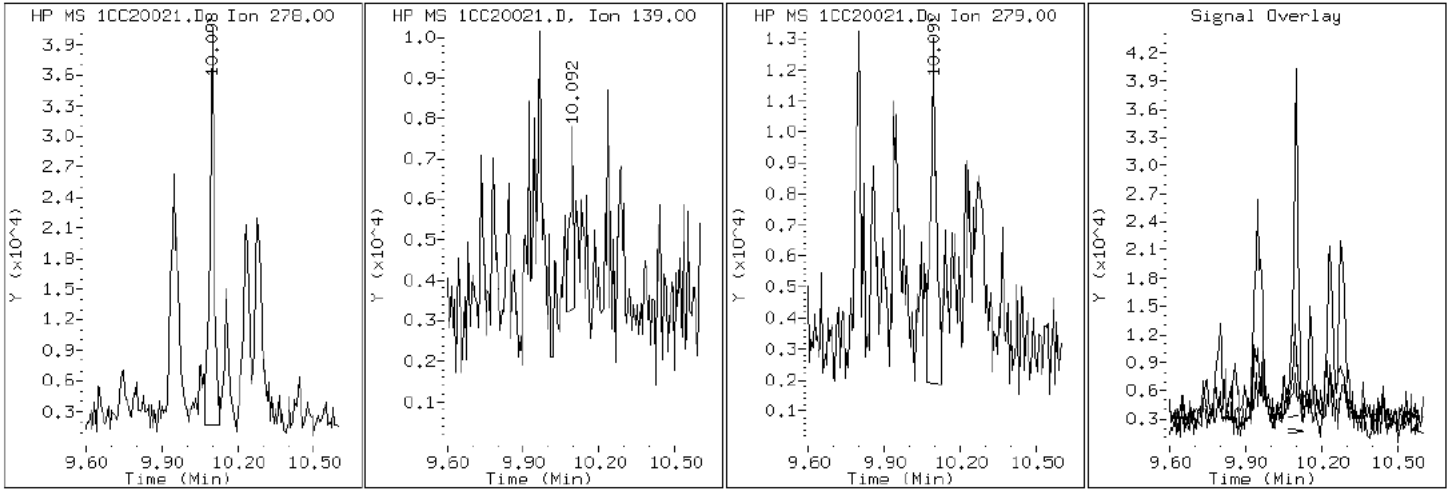
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

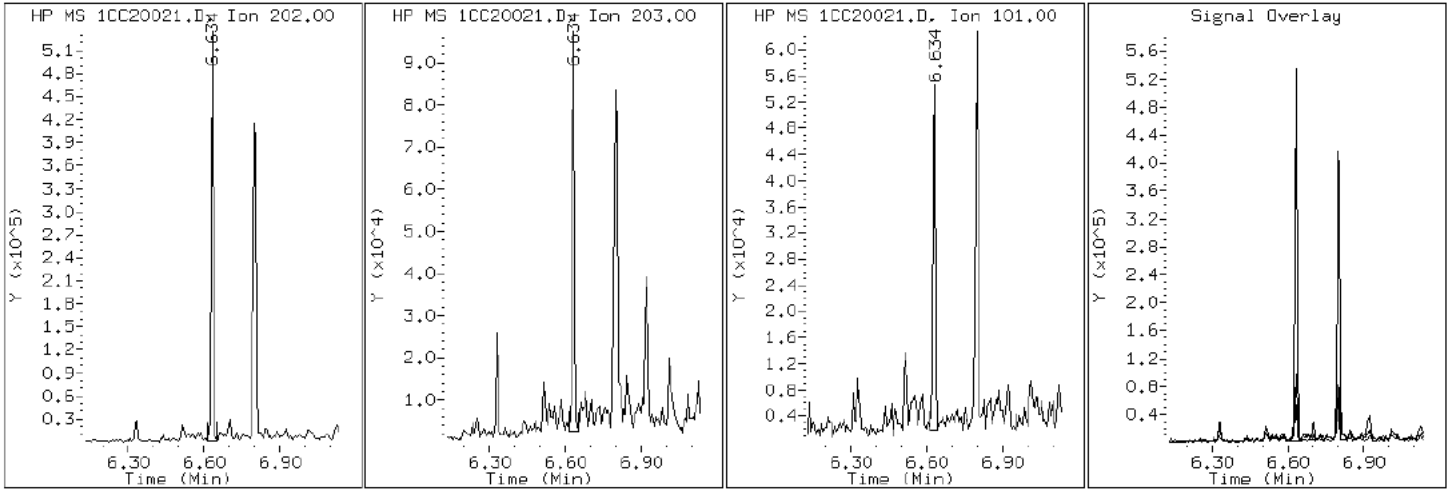
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

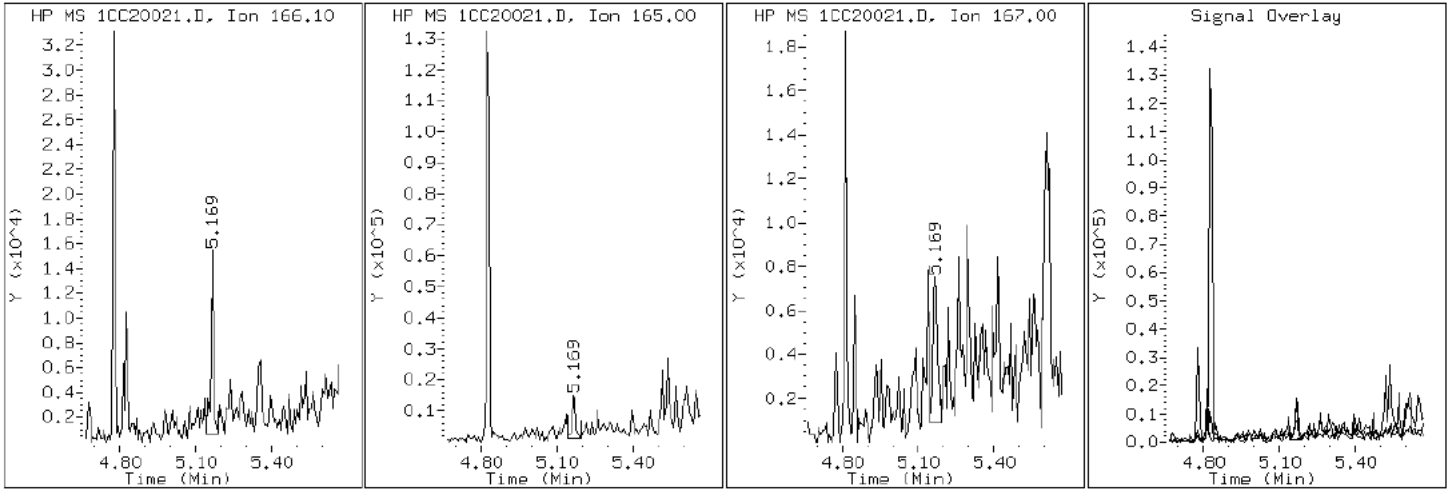
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

9 Fluorene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

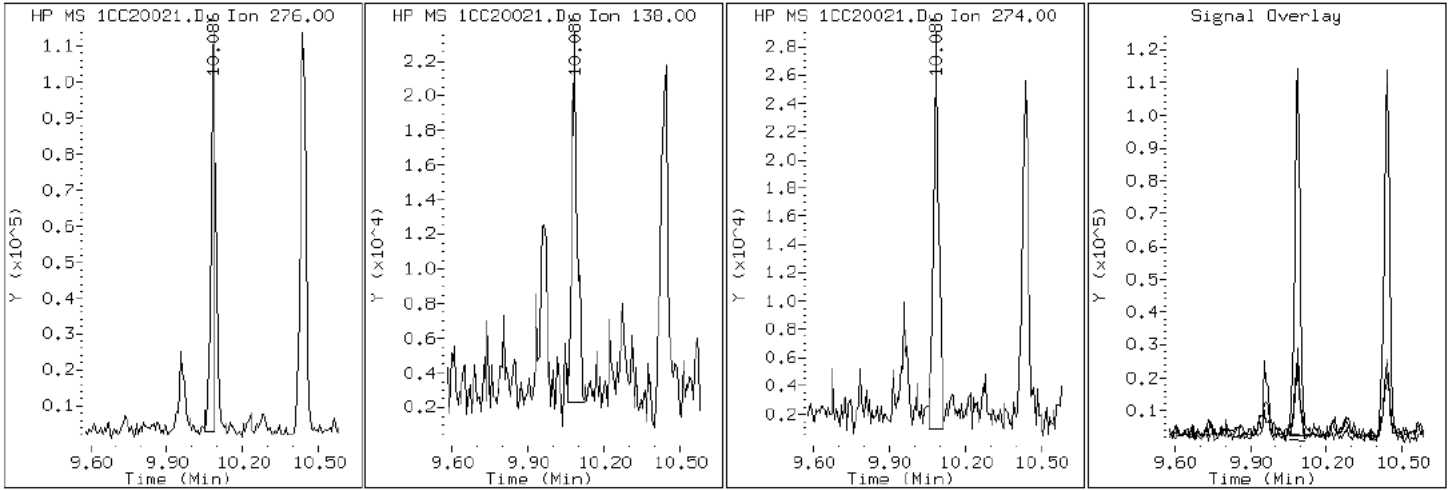
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

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



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

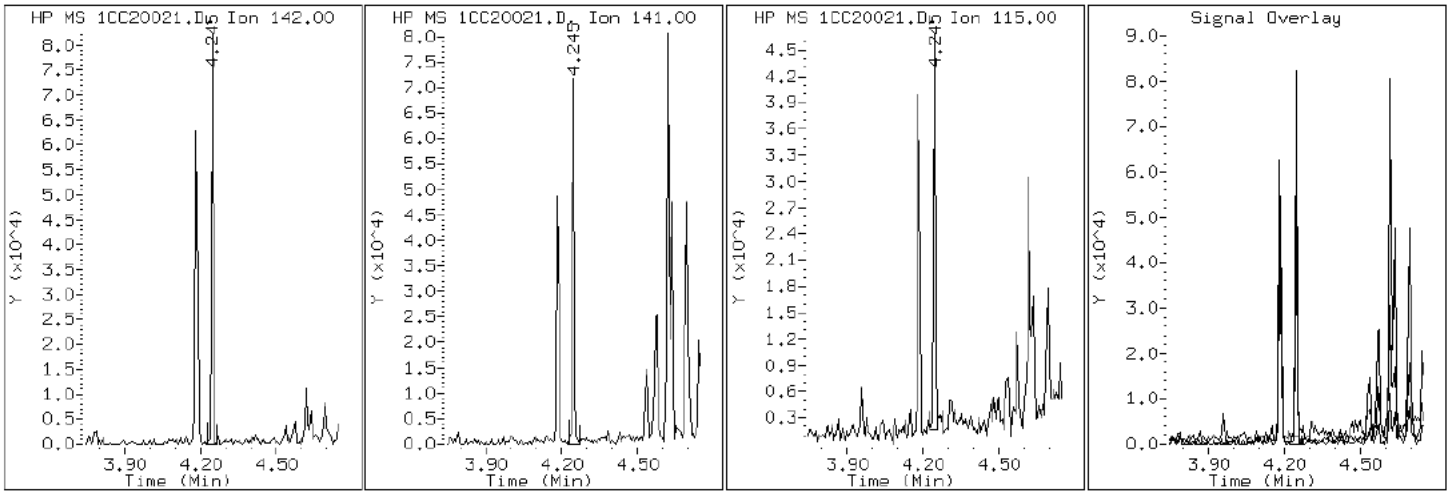
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

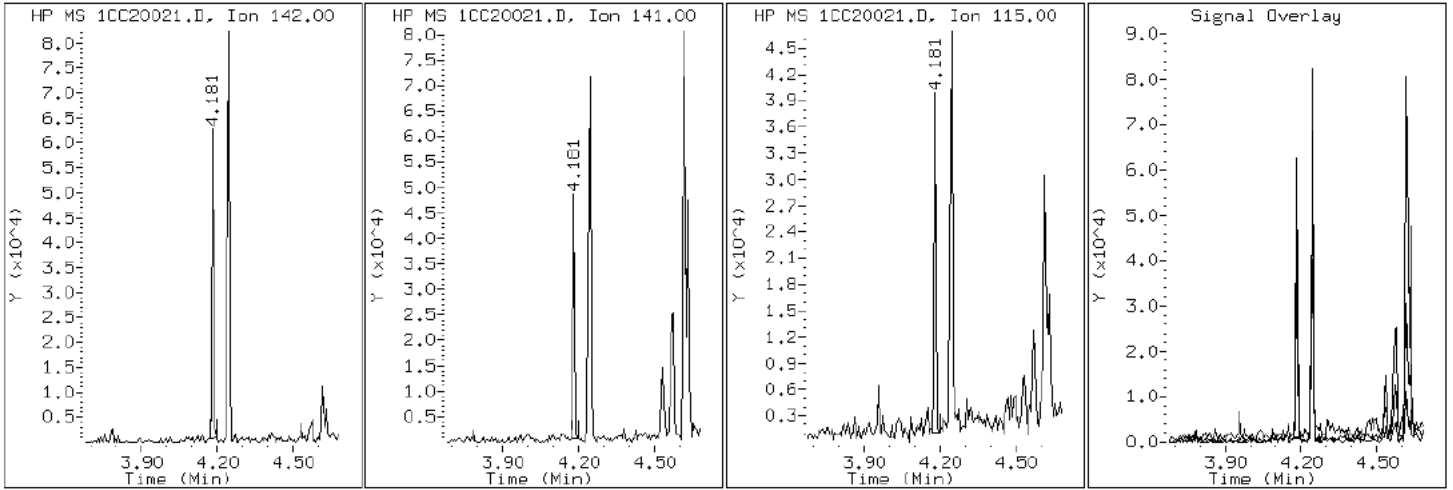
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

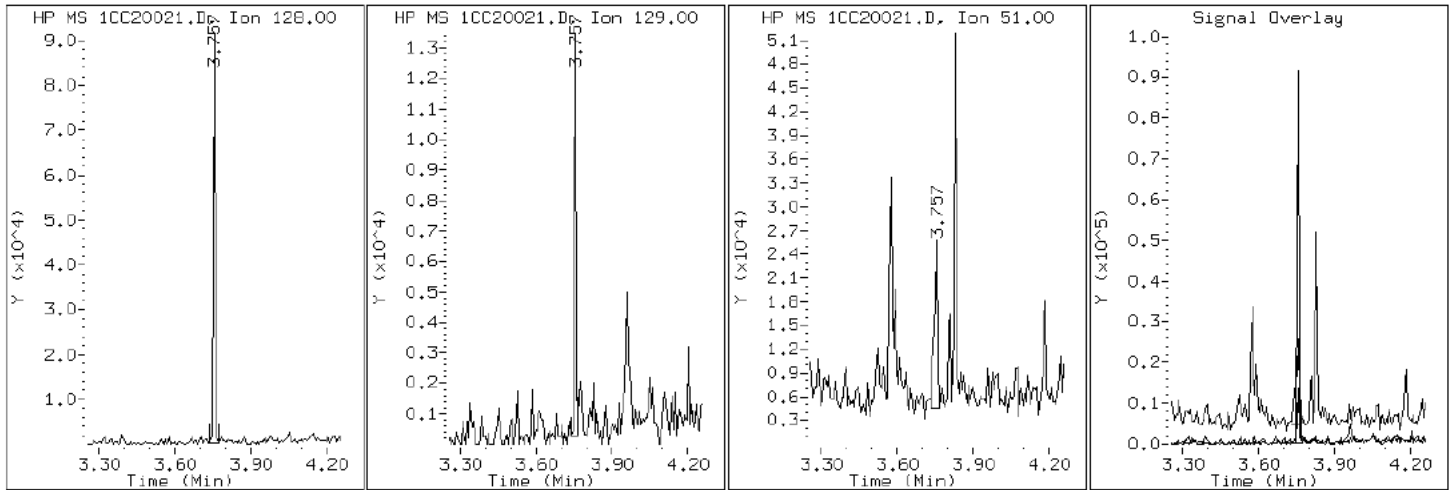
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

2 Naphthalene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

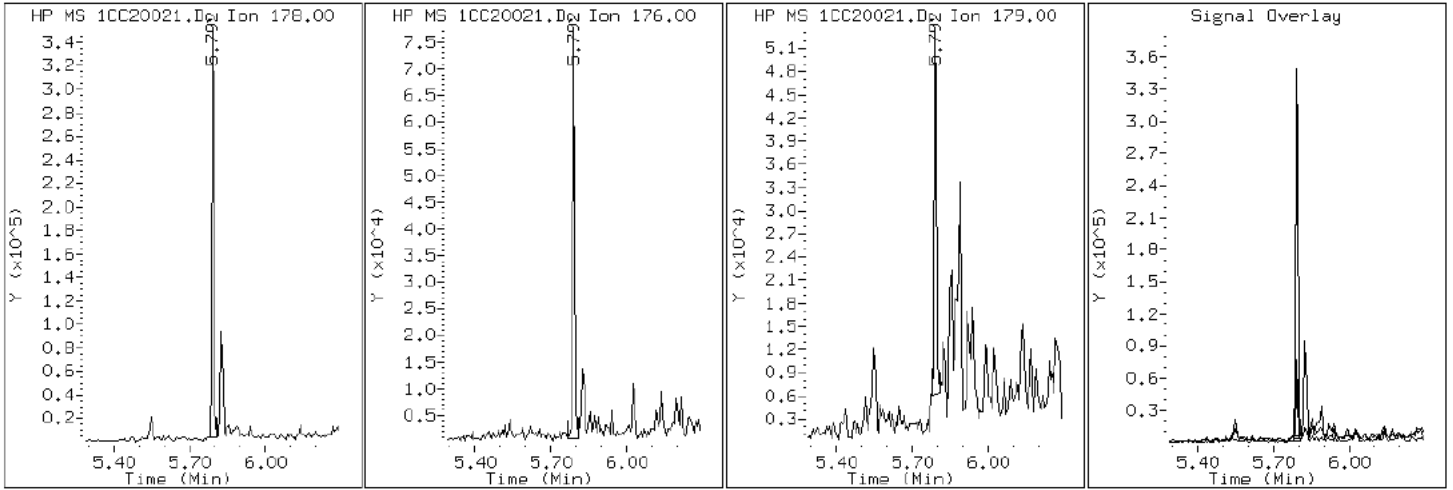
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20021.D

Date: 20-MAR-2013 16:08

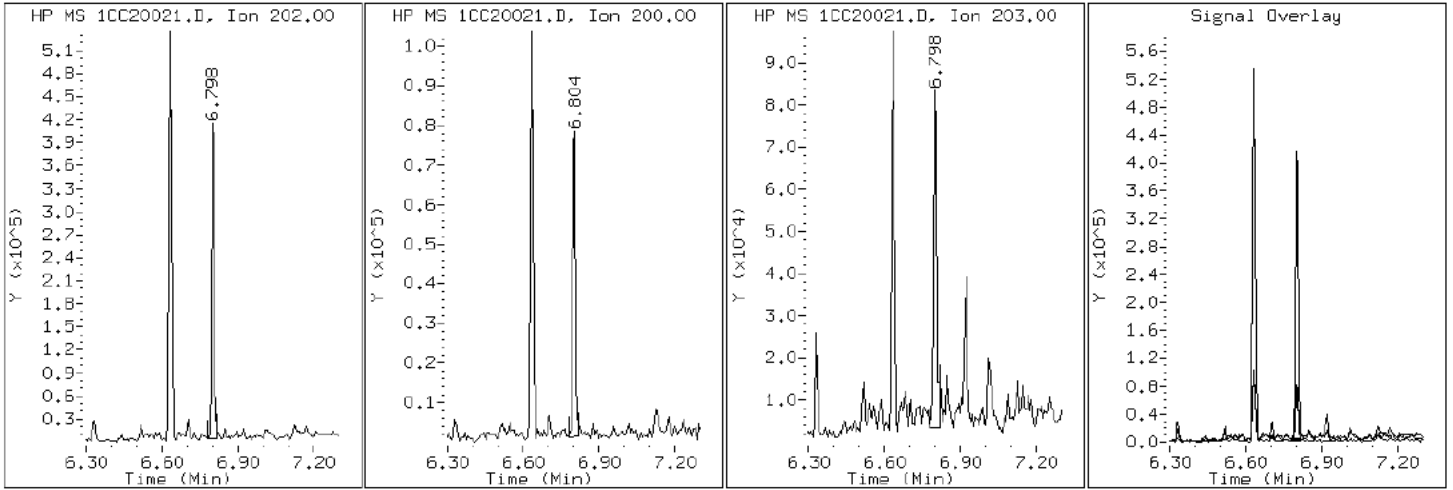
Client ID: CV0252A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-14-a

Operator: SCC

16 Pyrene

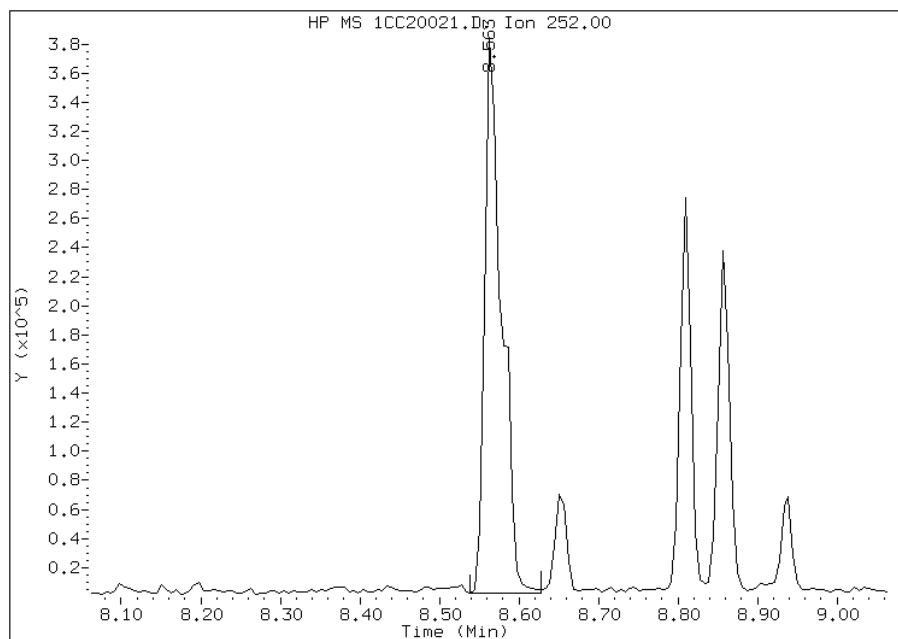


Manual Integration Report

Data File: 1CC20021.D
Inj. Date and Time: 20-MAR-2013 16:08
Instrument ID: BSMC5973.i
Client ID: CV0252A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

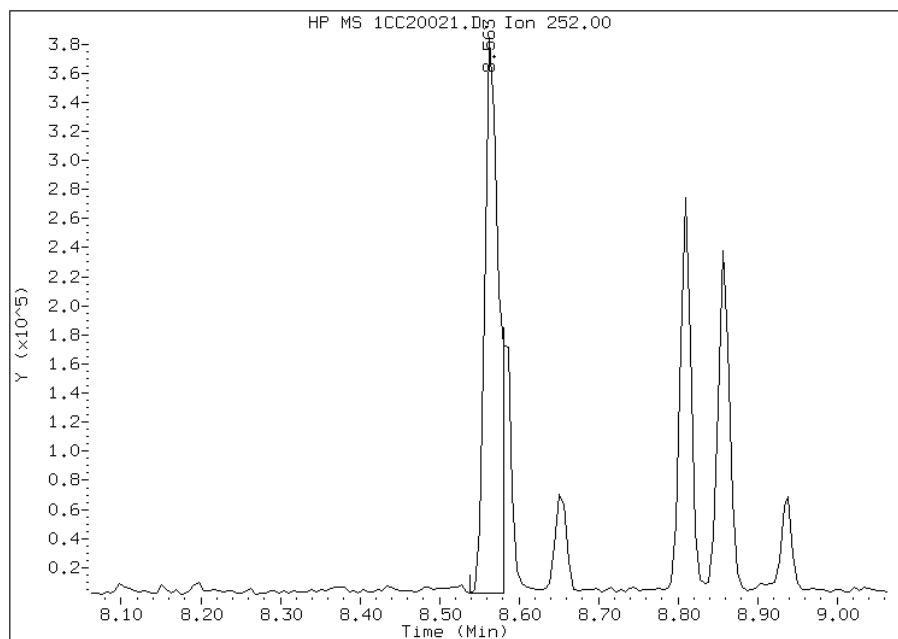
Processing Integration Results

RT: 8.56
Response: 565668
Amount: 16
Conc: 1449



Manual Integration Results

RT: 8.56
Response: 469321
Amount: 13
Conc: 1203



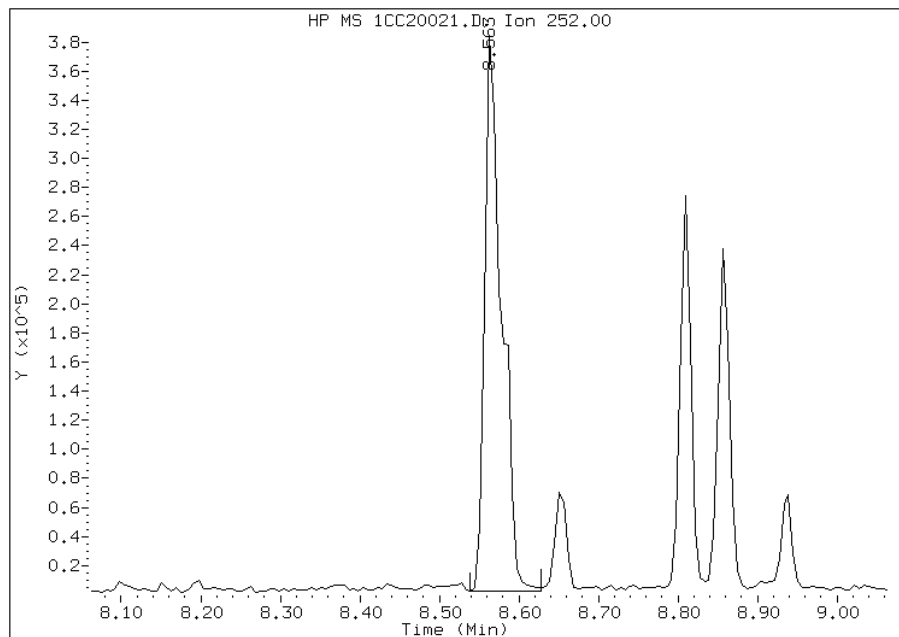
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20021.D
Inj. Date and Time: 20-MAR-2013 16:08
Instrument ID: BSMC5973.i
Client ID: CV0252A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

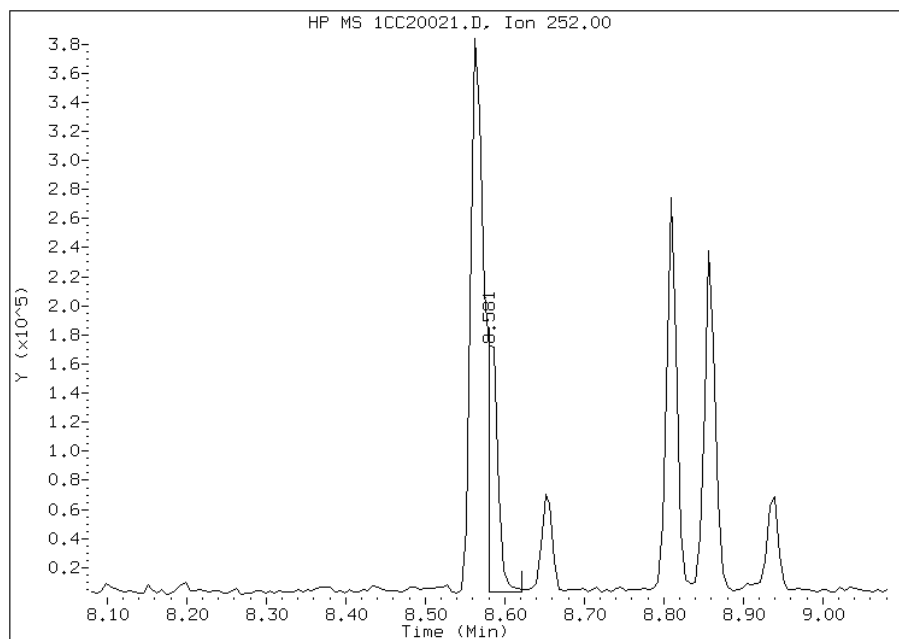
Processing Integration Results

RT: 8.56
Response: 565668
Amount: 16
Conc: 1413



Manual Integration Results

RT: 8.58
Response: 153637
Amount: 4
Conc: 384



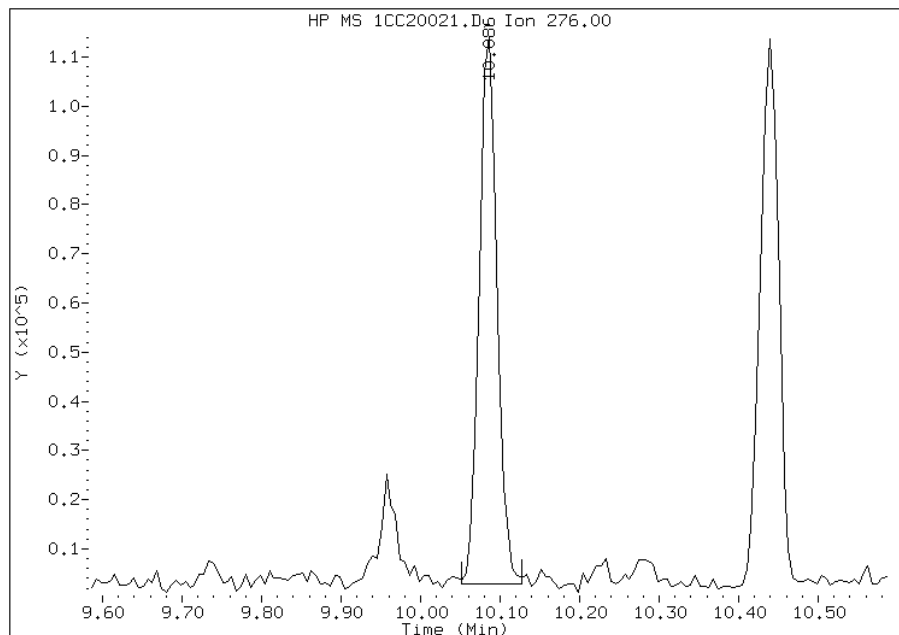
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20021.D
Inj. Date and Time: 20-MAR-2013 16:08
Instrument ID: BSMC5973.i
Client ID: CV0252A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

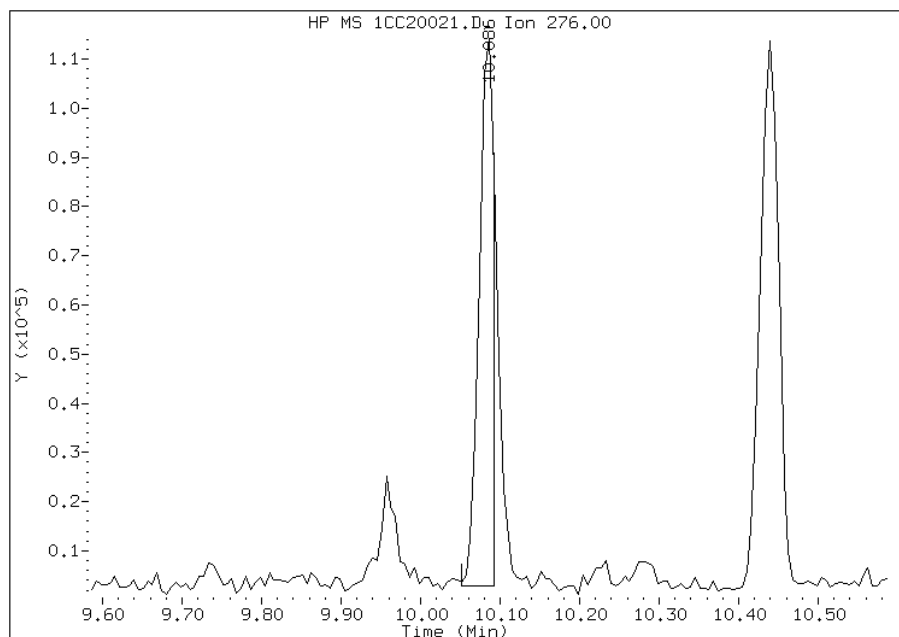
Processing Integration Results

RT: 10.09
Response: 171372
Amount: 5
Conc: 481



Manual Integration Results

RT: 10.09
Response: 142765
Amount: 4
Conc: 400



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0473B-CS Lab Sample ID: 680-88176-15
 Matrix: Solid Lab File ID: 1CC20022.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 13:20
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.24(g) Date Analyzed: 03/20/2013 16:27
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	13	J	48	6.0
120-12-7	Anthracene	11		10	5.0
56-55-3	Benzo[a]anthracene	56		9.5	4.7
50-32-8	Benzo[a]pyrene	47		12	6.2
205-99-2	Benzo[b]fluoranthene	100		15	7.3
191-24-2	Benzo[g,h,i]perylene	51		24	5.3
207-08-9	Benzo[k]fluoranthene	33		9.5	4.3
218-01-9	Chrysene	160		11	5.4
53-70-3	Dibenz(a,h)anthracene	16	J	24	4.9
206-44-0	Fluoranthene	110		24	4.8
86-73-7	Fluorene	16	J	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	33		24	8.5
90-12-0	1-Methylnaphthalene	60		48	5.3
91-57-6	2-Methylnaphthalene	77		48	8.5
91-20-3	Naphthalene	67		48	5.3
85-01-8	Phenanthrene	180		9.5	4.7
129-00-0	Pyrene	120		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	33		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20022.D
 Lab Smp Id: 680-88176-A-15-A Client Smp ID: CV0473B-CS
 Inj Date : 20-MAR-2013 16:27
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-15-a
 Misc Info : 680-88176-A-15-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 22
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	Weight Extracted
M	17.536	% 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		3.745	3.745	(1.000)	929562	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	718854	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1375486	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	67821	3.26573	259.8533	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1417634	40.0000		
* 23 Perylene-d12	264		8.910	8.909	(1.000)	1353564	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	20409	0.84335	67.1049	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	15545	0.96299	76.6247	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	11034	0.75051	59.7182	
5 Acenaphthylene	152		4.745	4.745	(0.983)	4706	0.16238	12.9203	
9 Fluorene	166		5.174	5.169	(1.072)	4518	0.19832	15.7799(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	88914	2.23554	177.8813	
12 Anthracene	178		5.827	5.827	(1.008)	5468	0.14057	11.1854(Q)	
13 Carbazole	167		5.933	5.933	(1.026)	5913	0.17101	13.6070	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.633	6.633	(1.148)	59029	1.35524	107.8359
16 Pyrene	202	6.798	6.798	(0.880)	56219	1.47569	117.4199
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	28671	0.70073	55.7572
19 Chrysene	228	7.739	7.739	(1.002)	83239	2.03288	161.7556
20 Benzo(b)fluoranthene	252	8.557	8.562	(0.960)	45764	1.29373	102.9419(M)
21 Benzo(k)fluoranthene	252	8.574	8.586	(0.962)	14912	0.41094	32.6981(QMH)
22 Benzo(a)pyrene	252	8.851	8.857	(0.993)	20501	0.59666	47.4763
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	13601	0.42079	33.4822(M)
25 Dibenzo(a,h)anthracene	278	10.086	10.098	(1.132)	6298	0.19920	15.8505
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.171)	21826	0.64551	51.3630

QC Flag Legend

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

Data File: 1CC20022.D

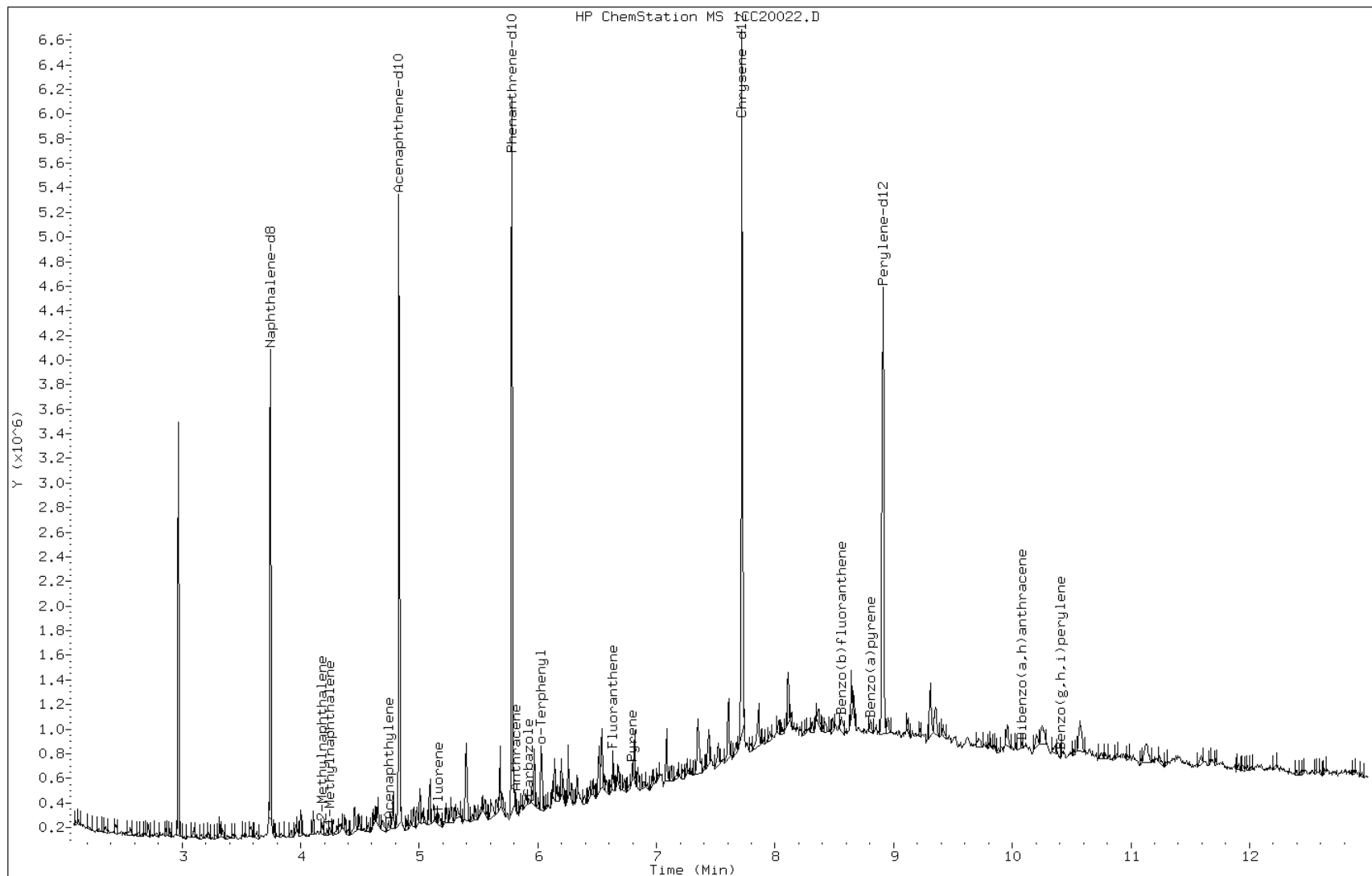
Date: 20-MAR-2013 16:27

Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

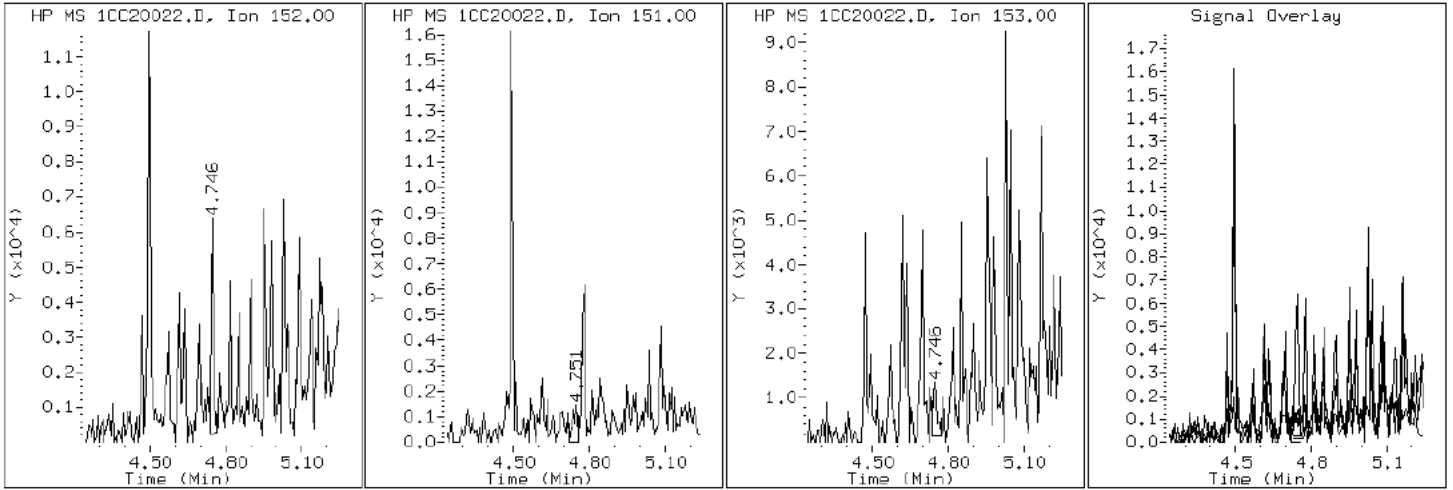
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

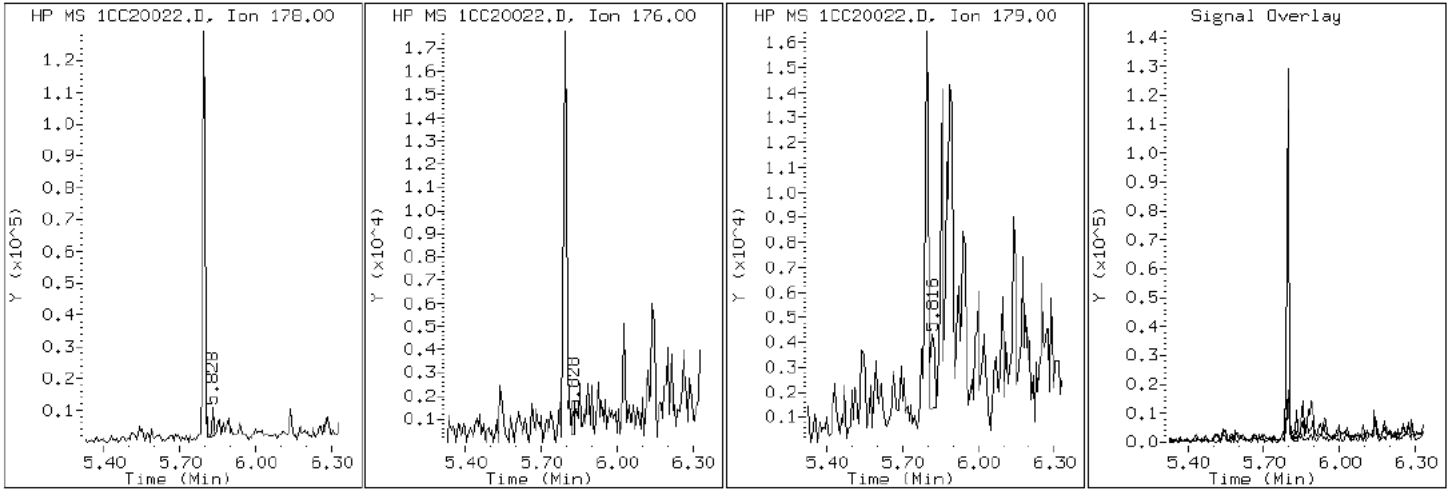
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

12 Anthracene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

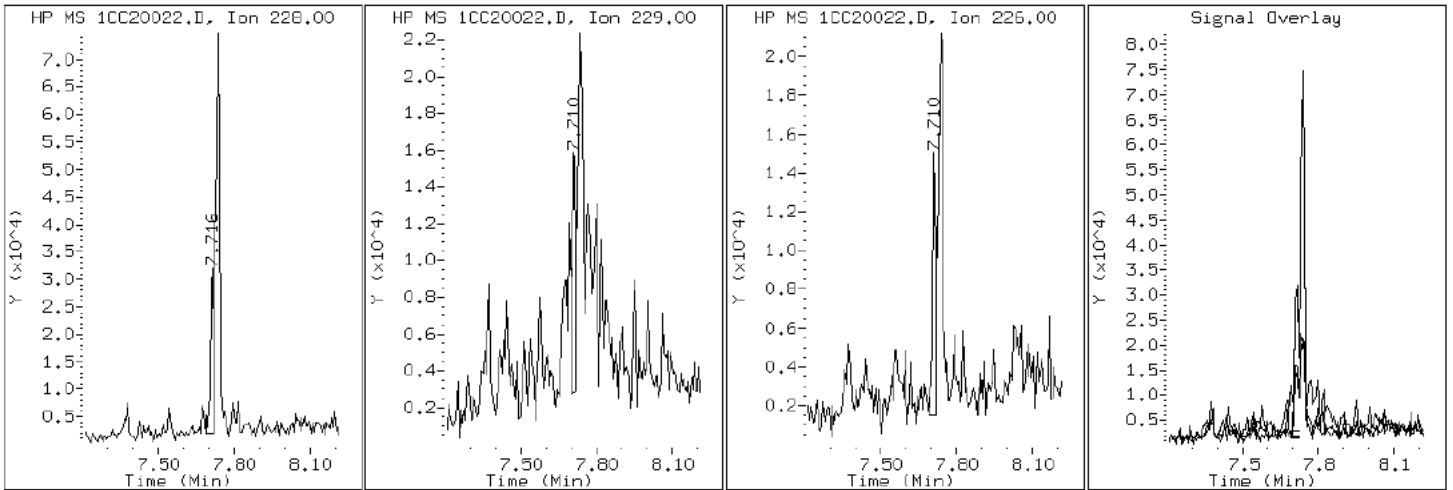
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

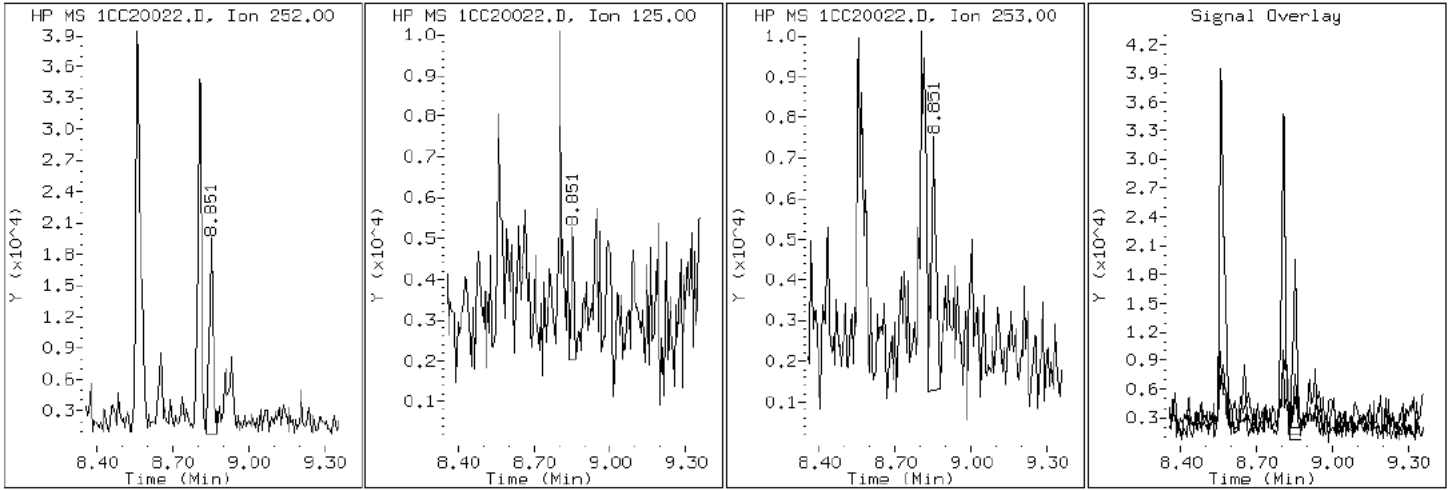
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

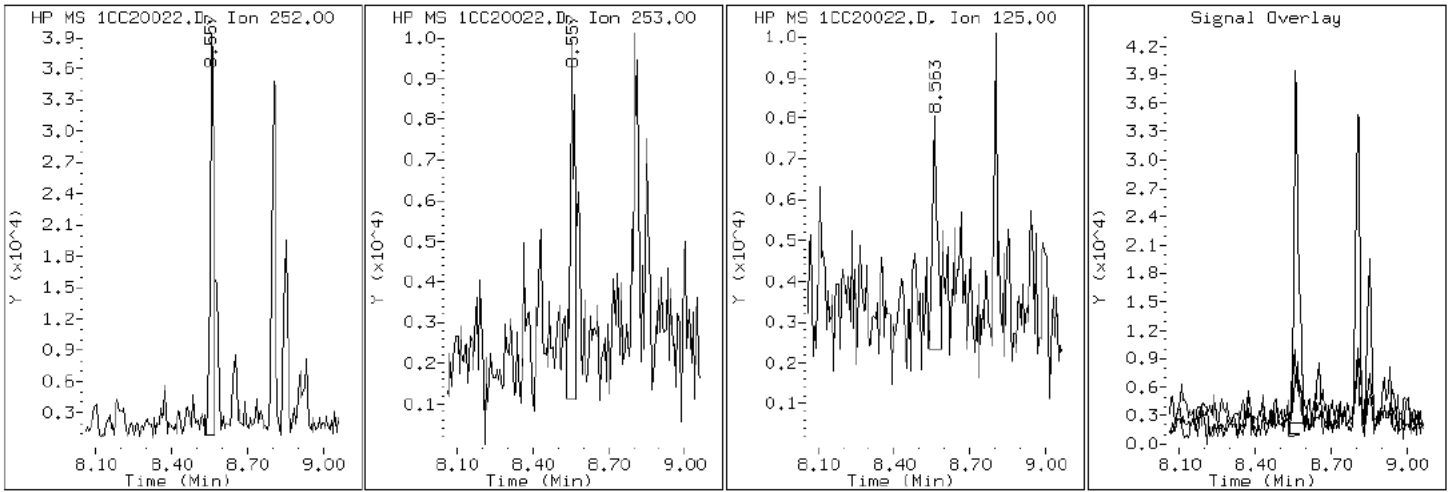
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

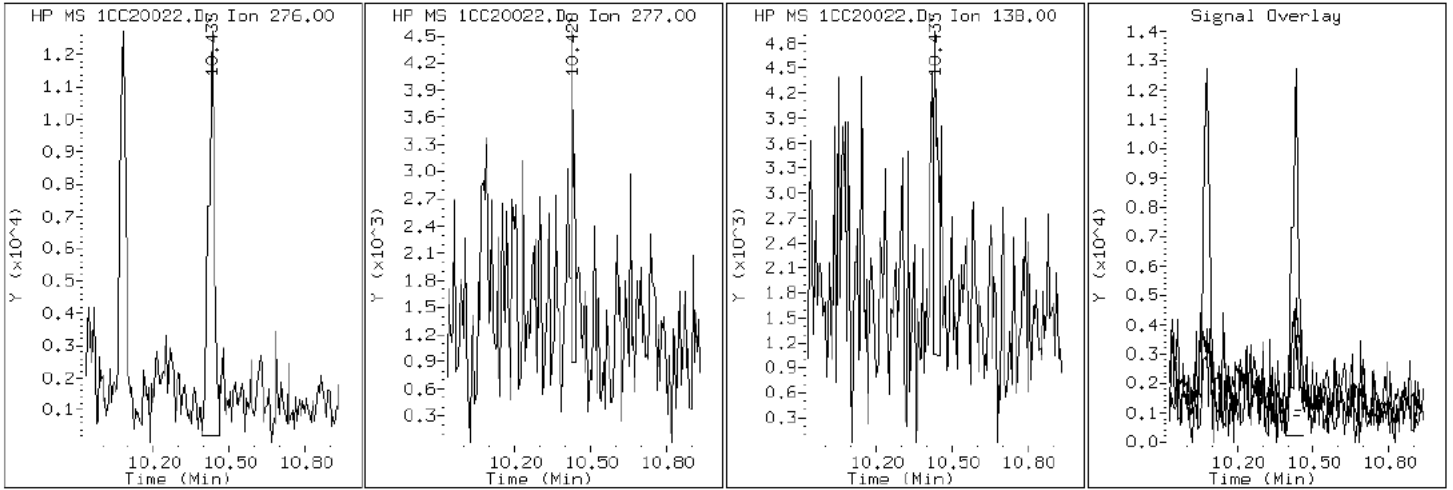
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

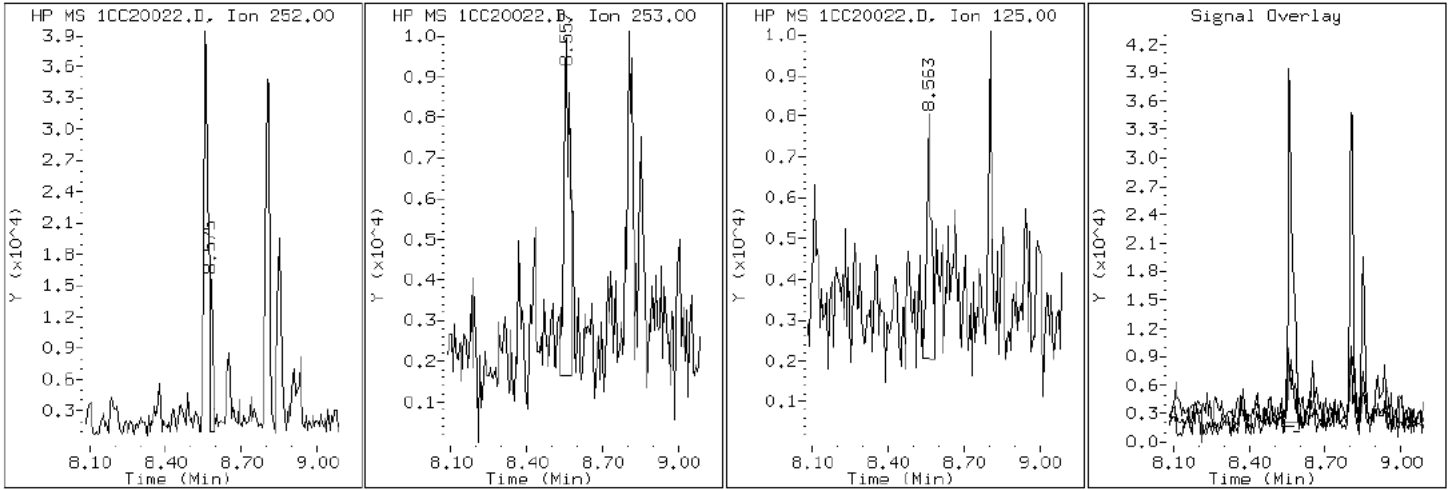
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

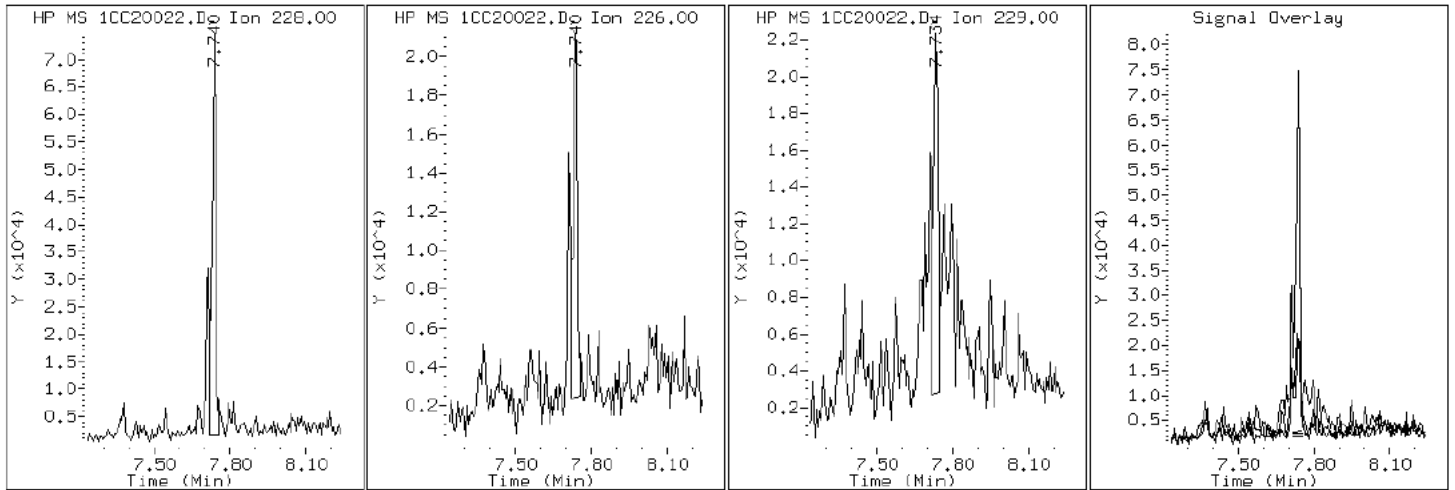
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

19 Chrysene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

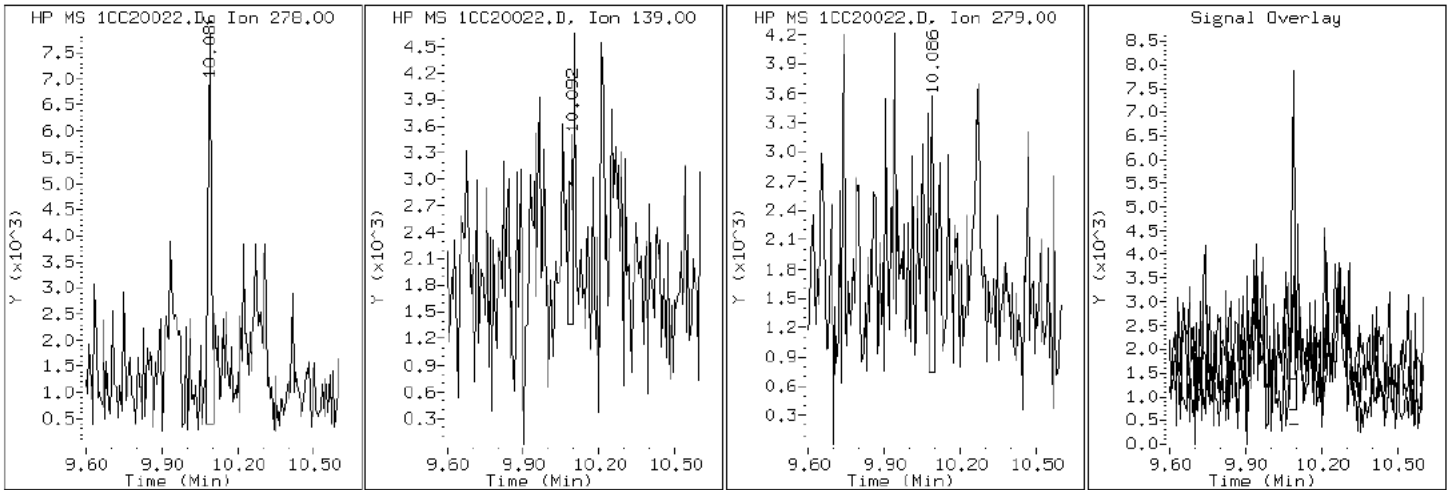
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

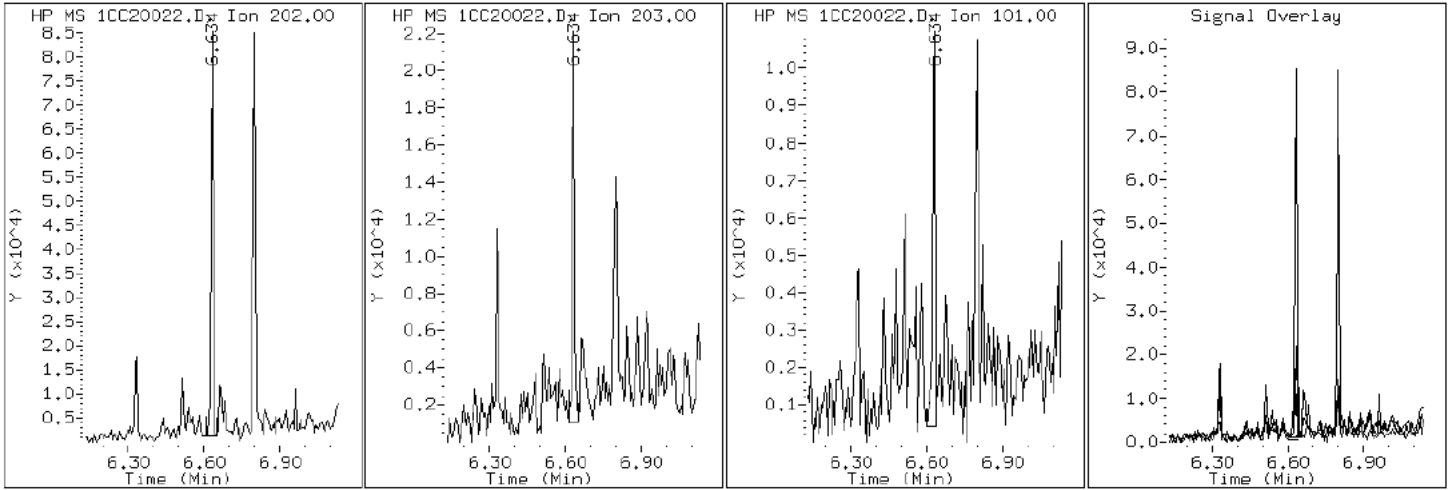
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

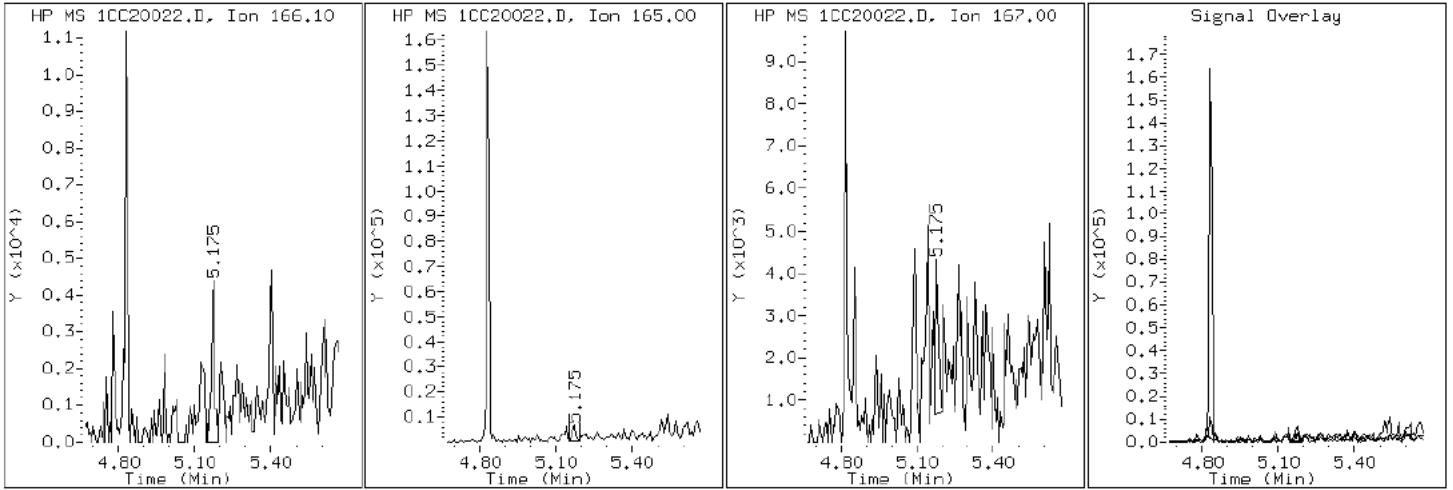
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

9 Fluorene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

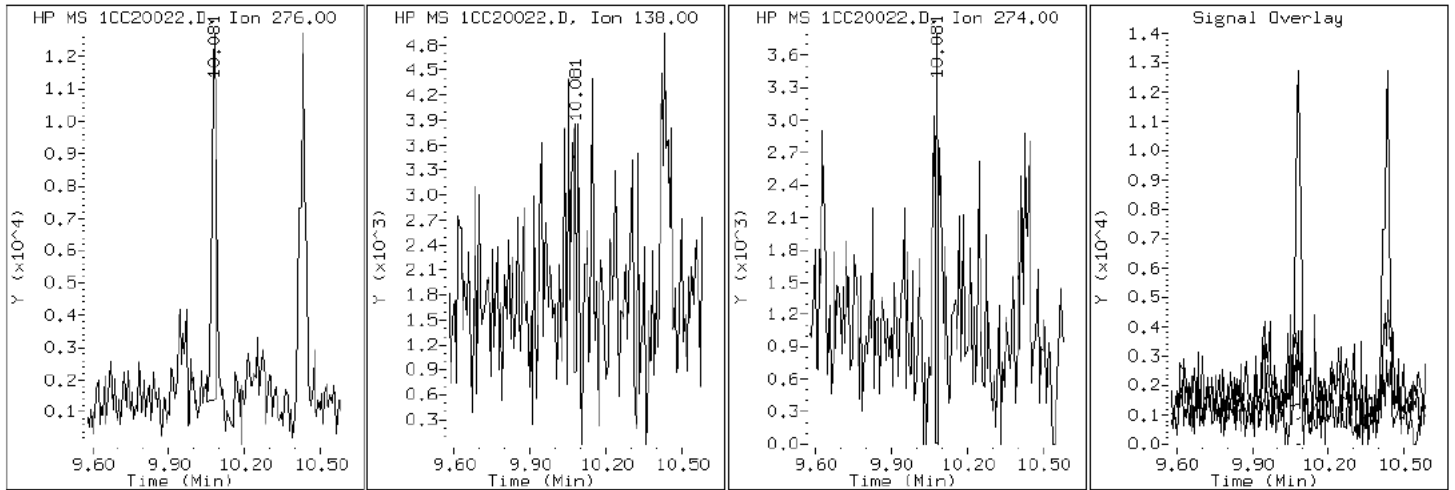
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

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



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

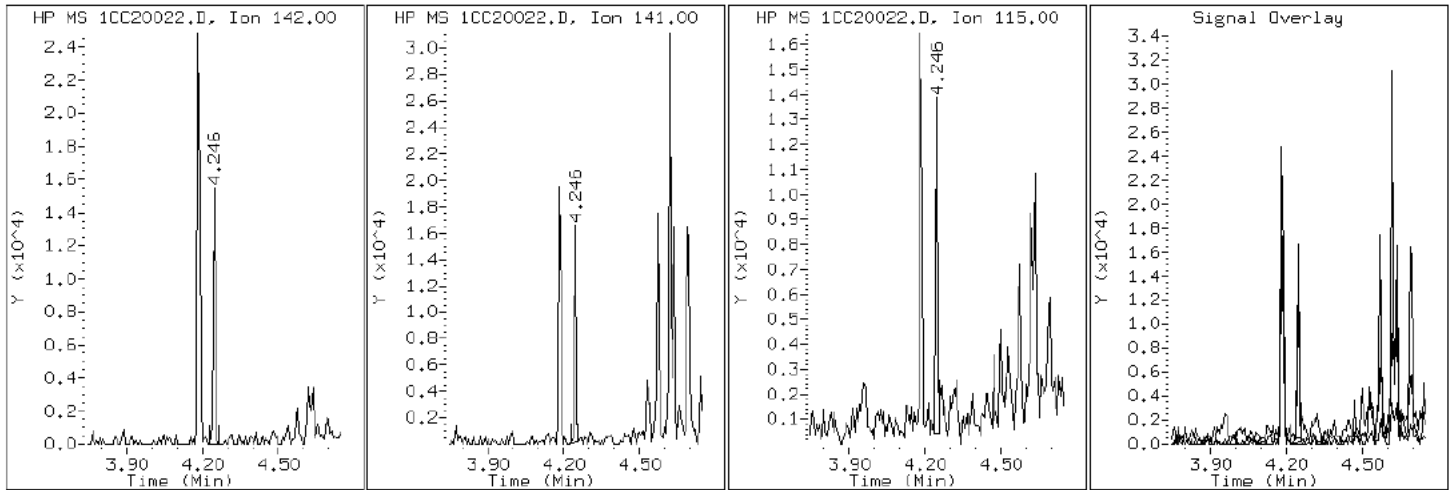
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

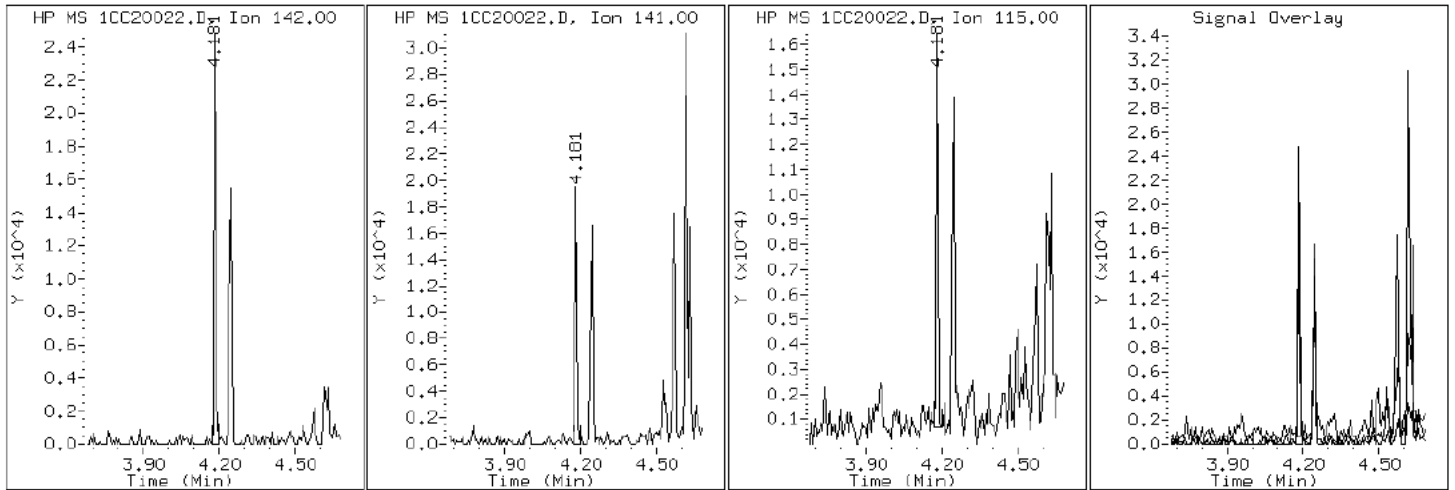
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

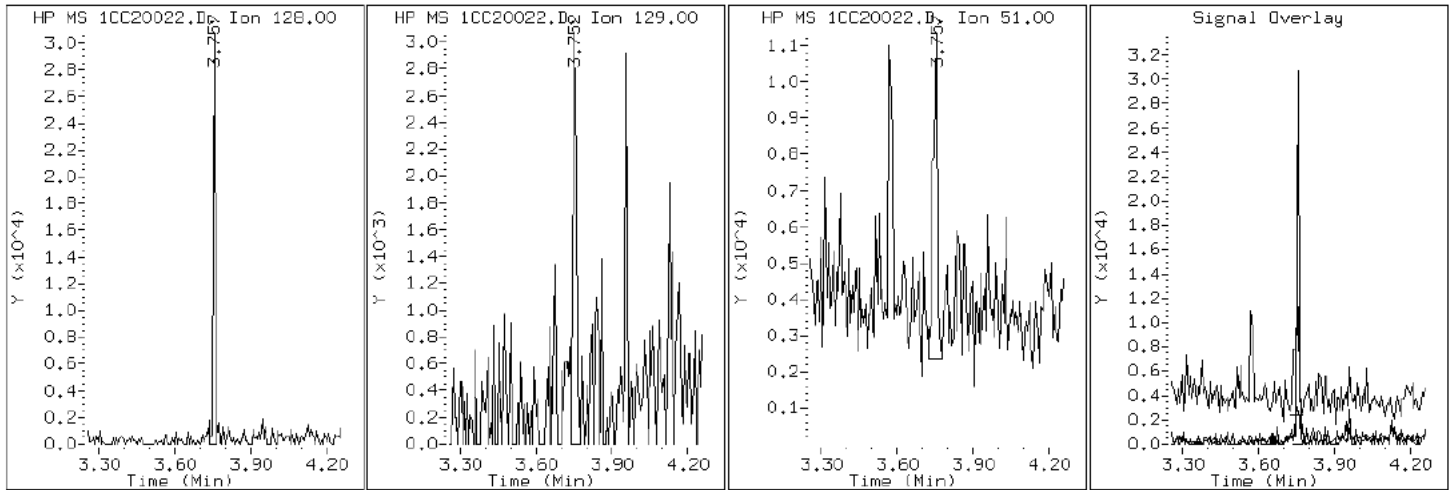
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

2 Naphthalene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

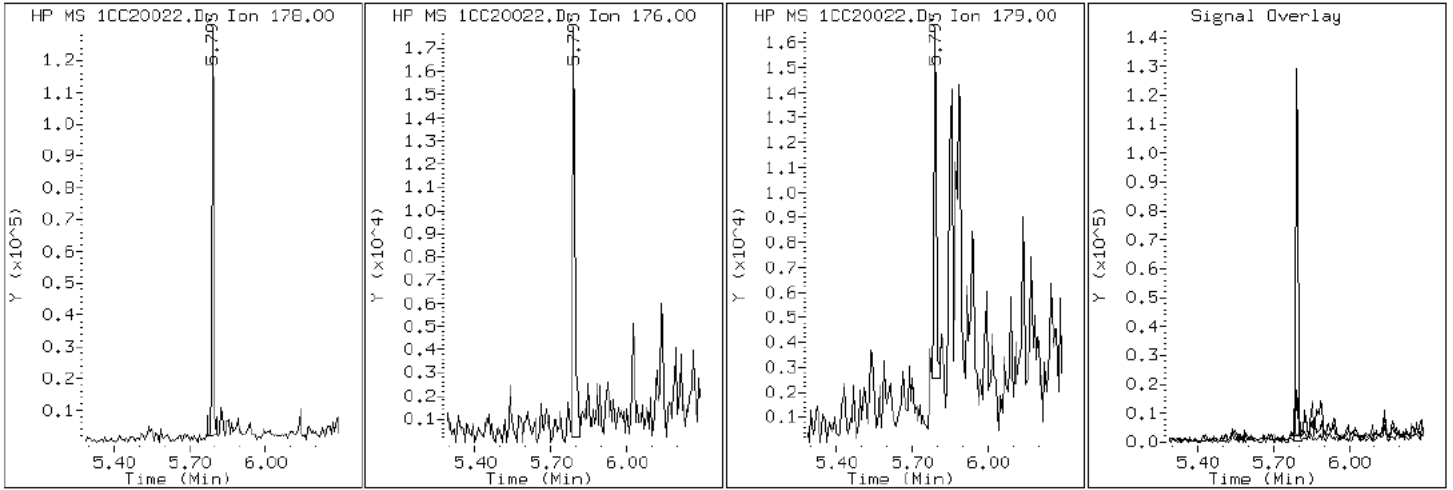
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20022.D

Date: 20-MAR-2013 16:27

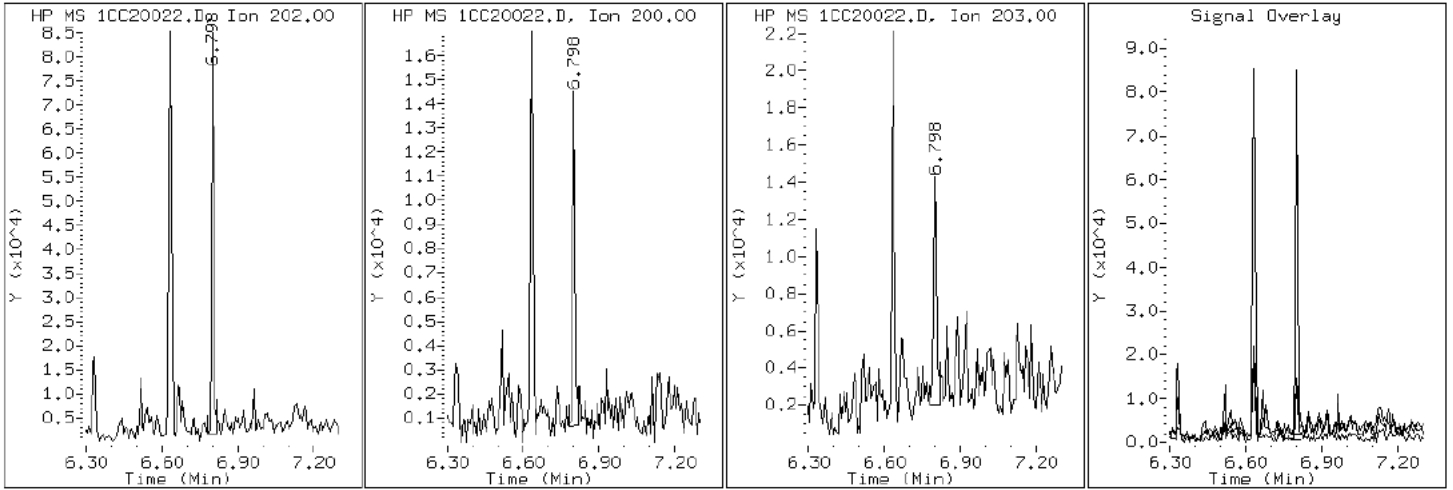
Client ID: CV0473B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-15-a

Operator: SCC

16 Pyrene

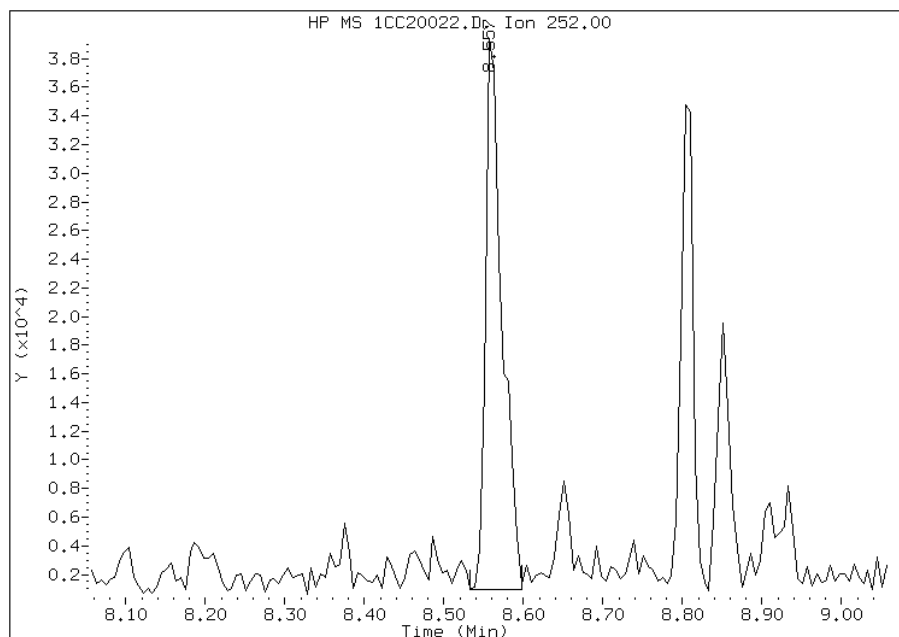


Manual Integration Report

Data File: 1CC20022.D
Inj. Date and Time: 20-MAR-2013 16:27
Instrument ID: BSMC5973.i
Client ID: CV0473B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

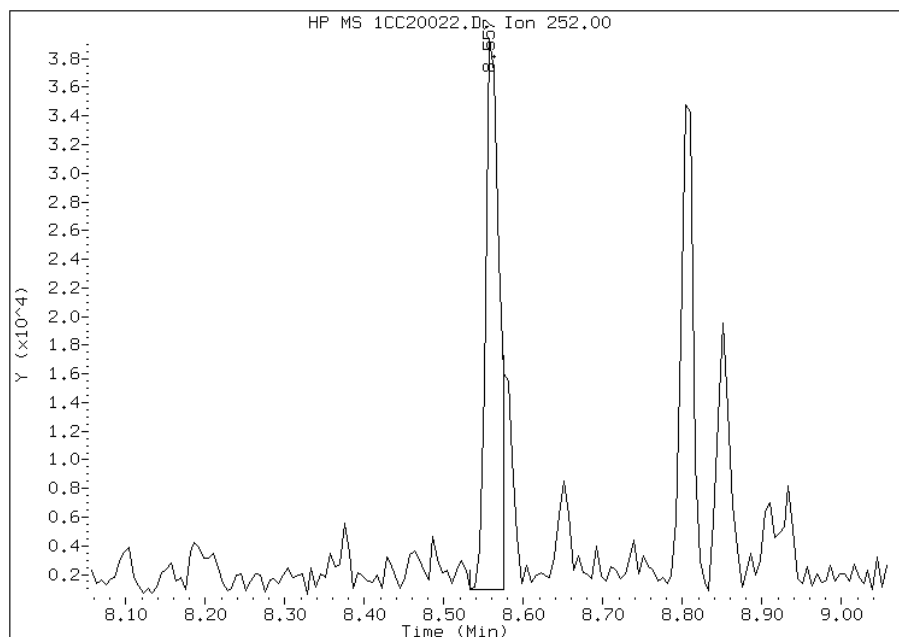
Processing Integration Results

RT: 8.56
Response: 55561
Amount: 2
Conc: 125



Manual Integration Results

RT: 8.56
Response: 45764
Amount: 1
Conc: 103



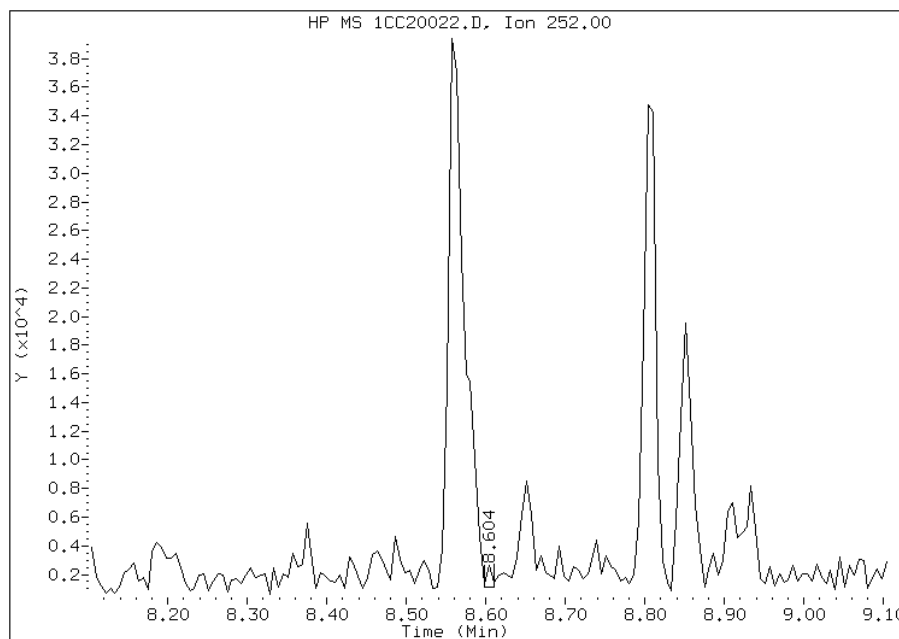
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20022.D
Inj. Date and Time: 20-MAR-2013 16:27
Instrument ID: BSMC5973.i
Client ID: CV0473B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

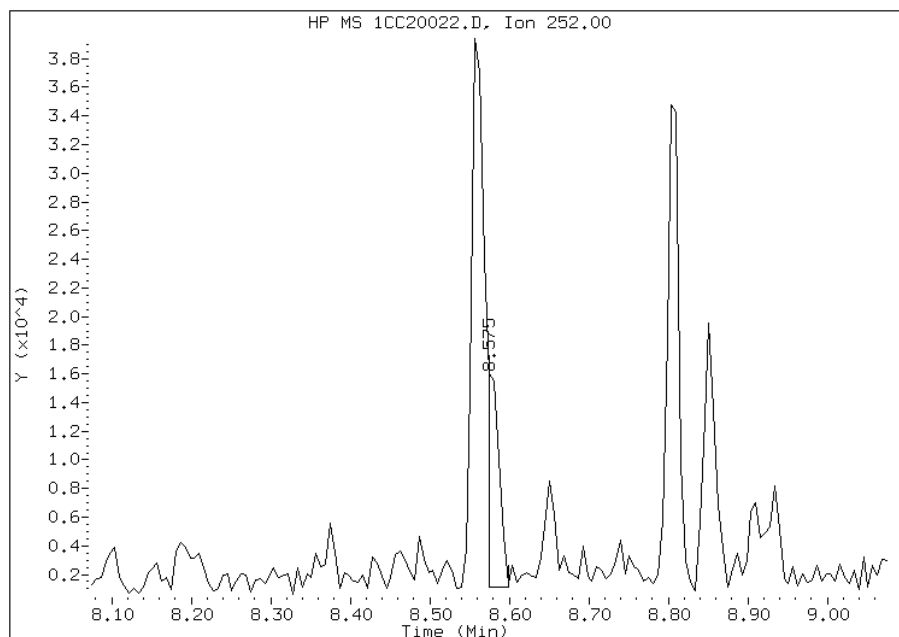
Processing Integration Results

RT: 8.60
Response: 706
Amount: 0
Conc: 2



Manual Integration Results

RT: 8.57
Response: 14912
Amount: 0
Conc: 33



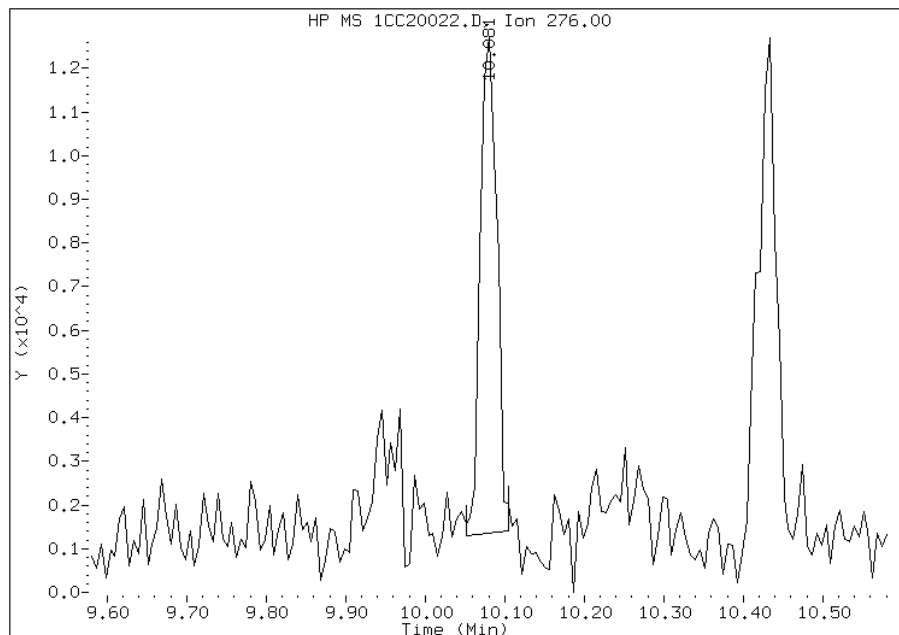
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20022.D
Inj. Date and Time: 20-MAR-2013 16:27
Instrument ID: BSMC5973.i
Client ID: CV0473B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

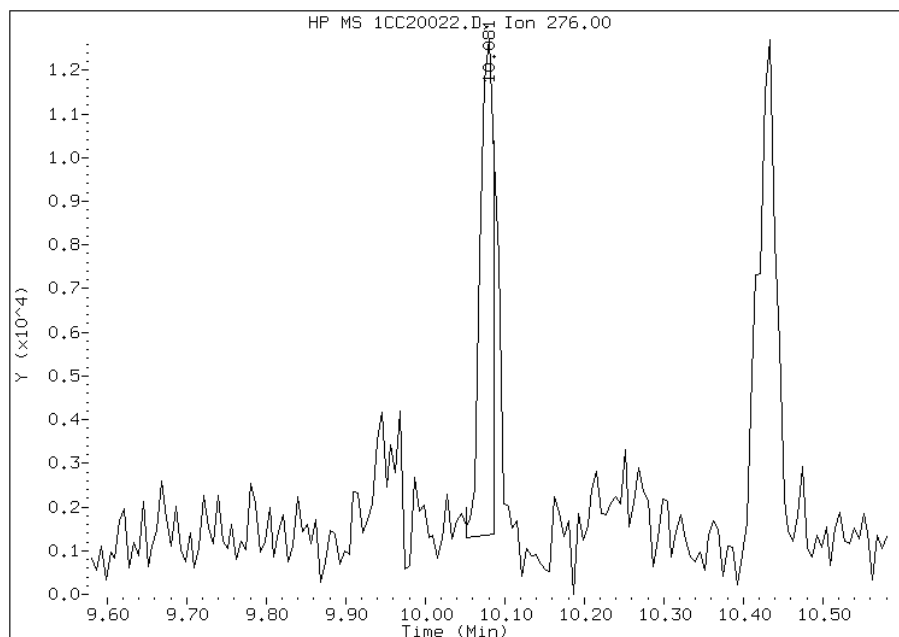
Processing Integration Results

RT: 10.08
Response: 16291
Amount: 1
Conc: 40



Manual Integration Results

RT: 10.08
Response: 13601
Amount: 0
Conc: 33



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0473A-CS Lab Sample ID: 680-88176-16
 Matrix: Solid Lab File ID: 1CC20023.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 13:30
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.32 (g) Date Analyzed: 03/20/2013 16:45
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: 24.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	10	J	52	6.5
120-12-7	Anthracene	8.6	J	11	5.5
56-55-3	Benzo[a]anthracene	51		10	5.1
50-32-8	Benzo[a]pyrene	43		14	6.8
205-99-2	Benzo[b]fluoranthene	110		16	7.9
191-24-2	Benzo[g,h,i]perylene	41		26	5.7
207-08-9	Benzo[k]fluoranthene	37		10	4.7
218-01-9	Chrysene	100		12	5.9
53-70-3	Dibenz(a,h)anthracene	20	J	26	5.3
206-44-0	Fluoranthene	83		26	5.2
86-73-7	Fluorene	6.9	J	26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	23	J	26	9.2
90-12-0	1-Methylnaphthalene	46	J	52	5.7
91-57-6	2-Methylnaphthalene	49	J	52	9.2
91-20-3	Naphthalene	44	J	52	5.7
85-01-8	Phenanthrene	88		10	5.1
129-00-0	Pyrene	95		26	4.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	44		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20023.D
 Lab Smp Id: 680-88176-A-16-A Client Smp ID: CV0473A-CS
 Inj Date : 20-MAR-2013 16:45
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-16-a
 Misc Info : 680-88176-A-16-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 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	15.320	Weight Extracted
M	24.776	% 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		3.745	3.745	(1.000)	924654	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	735813	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1352685	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	90261	4.41952	383.4934	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1491154	40.0000		
* 23 Perylene-d12	264		8.909	8.909	(1.000)	1346846	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	12267	0.50959	44.2185	
3 2-Methylnaphthalene	142		4.186	4.180	(1.118)	9098	0.56660	49.1651	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	7682	0.52529	45.5807	
5 Acenaphthylene	152		4.745	4.745	(0.983)	3468	0.11690	10.1439	
9 Fluorene	166		5.174	5.169	(1.072)	1859	0.07972	6.9174(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	39550	1.01116	87.7405	
12 Anthracene	178		5.827	5.827	(1.008)	3777	0.09874	8.5677	
13 Carbazole	167		5.939	5.933	(1.027)	4953	0.14566	12.6391(Q)	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
15 Fluoranthene	202		6.633	6.633	(1.148)	40777	0.95197	82.6051
16 Pyrene	202		6.798	6.798	(0.880)	43657	1.08945	94.5341
17 Benzo(a)anthracene	228		7.709	7.715	(0.998)	25141	0.58416	50.6893
19 Chrysene	228		7.739	7.739	(1.002)	50083	1.16283	100.9017
20 Benzo(b)fluoranthene	252		8.562	8.562	(0.961)	43978	1.24944	108.4173(M)
21 Benzo(k)fluoranthene	252		8.574	8.586	(0.962)	15399	0.42647	37.0061(QM)
22 Benzo(a)pyrene	252		8.851	8.857	(0.993)	16806	0.49156	42.6542
24 Indeno(1,2,3-cd)pyrene	276		10.074	10.080	(1.131)	8619	0.26799	23.2538(M)
25 Dibenzo(a,h)anthracene	278		10.086	10.098	(1.132)	7385	0.23475	20.3698
26 Benzo(g,h,i)perylene	276		10.433	10.433	(1.171)	15883	0.47209	40.9642(M)

QC Flag Legend

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

Data File: 1CC20023.D

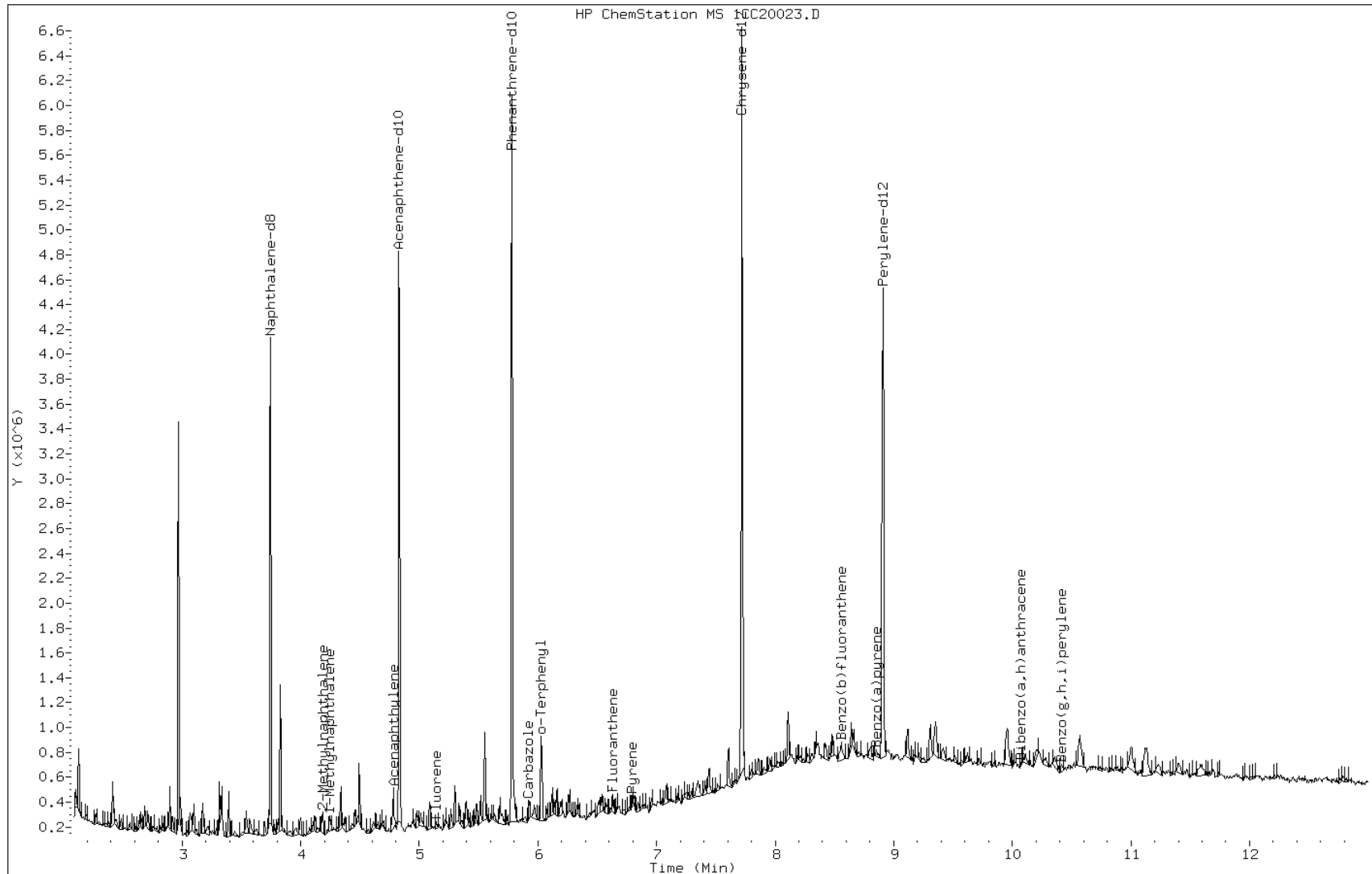
Date: 20-MAR-2013 16:45

Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

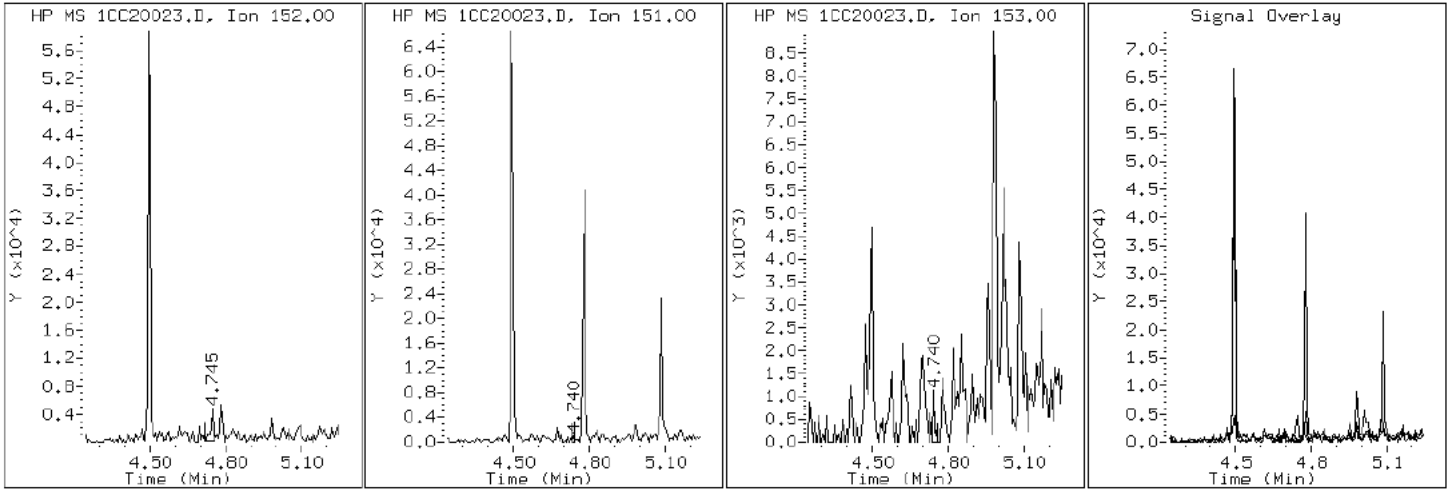
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

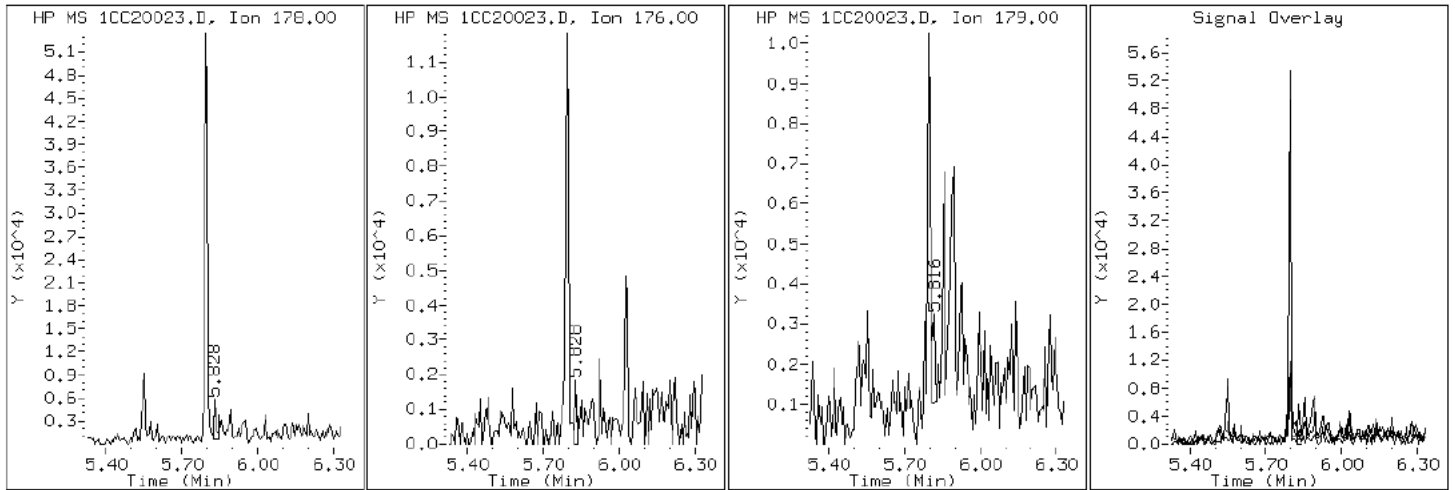
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

12 Anthracene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

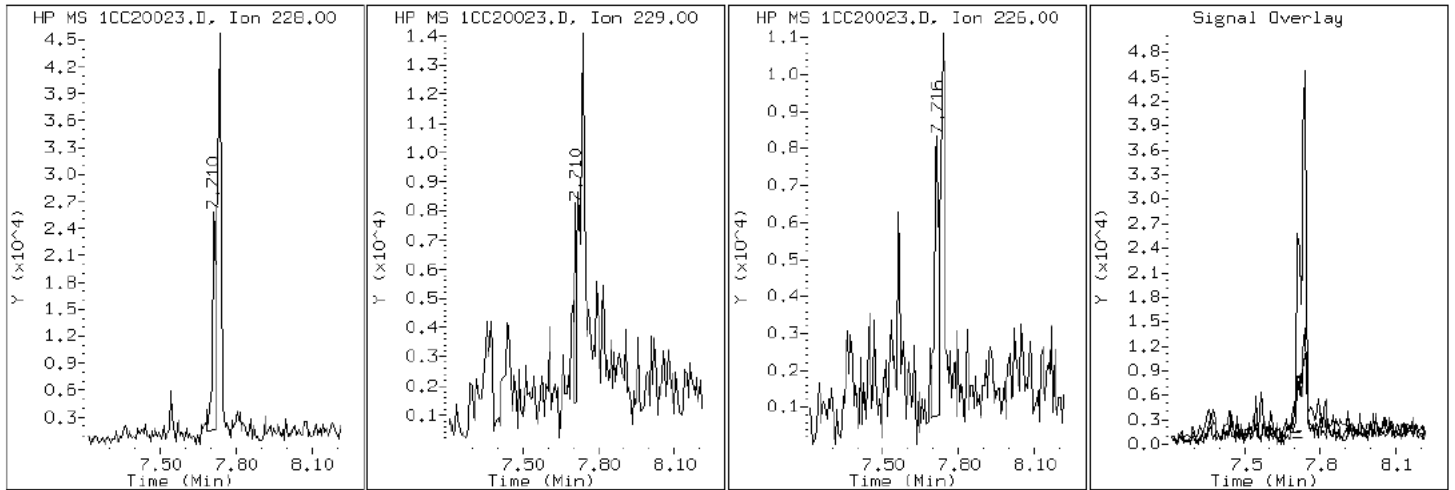
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

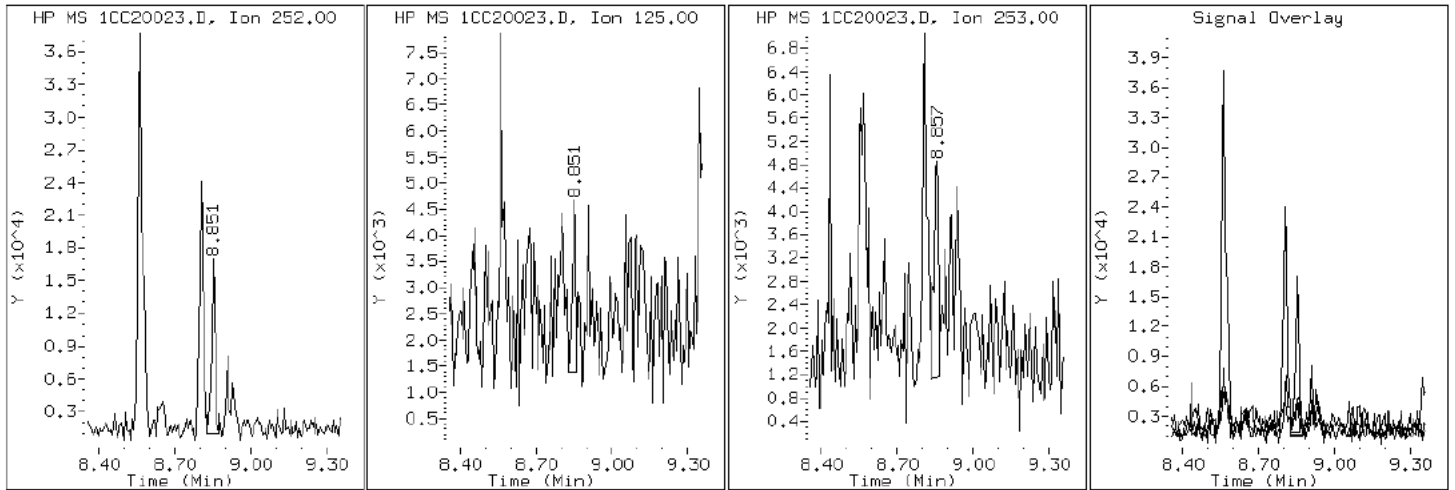
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

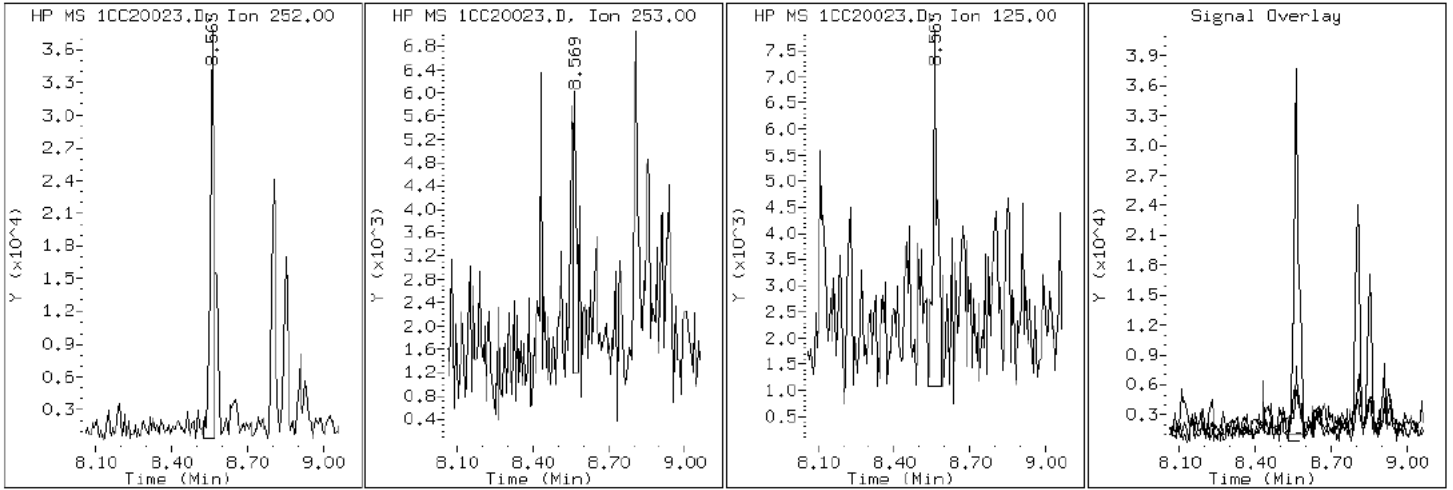
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

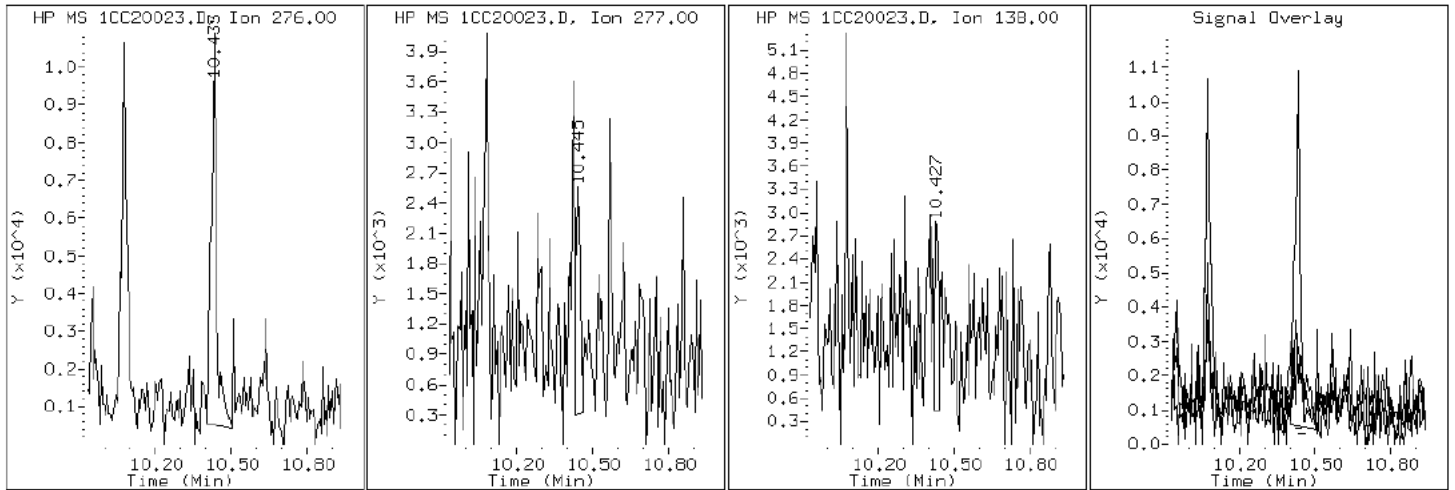
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

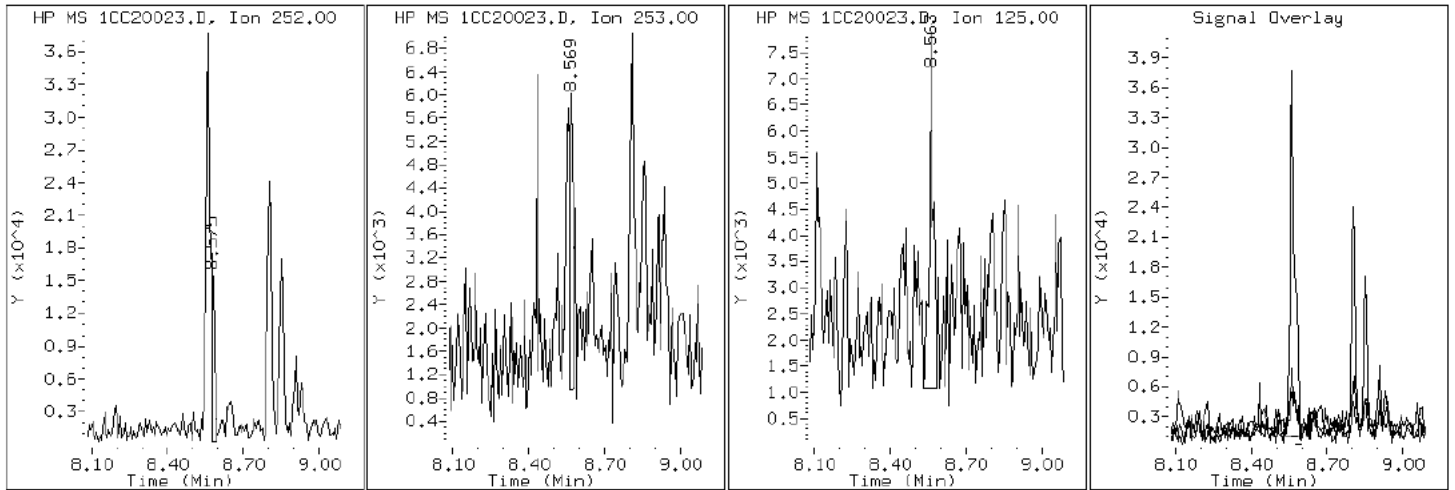
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

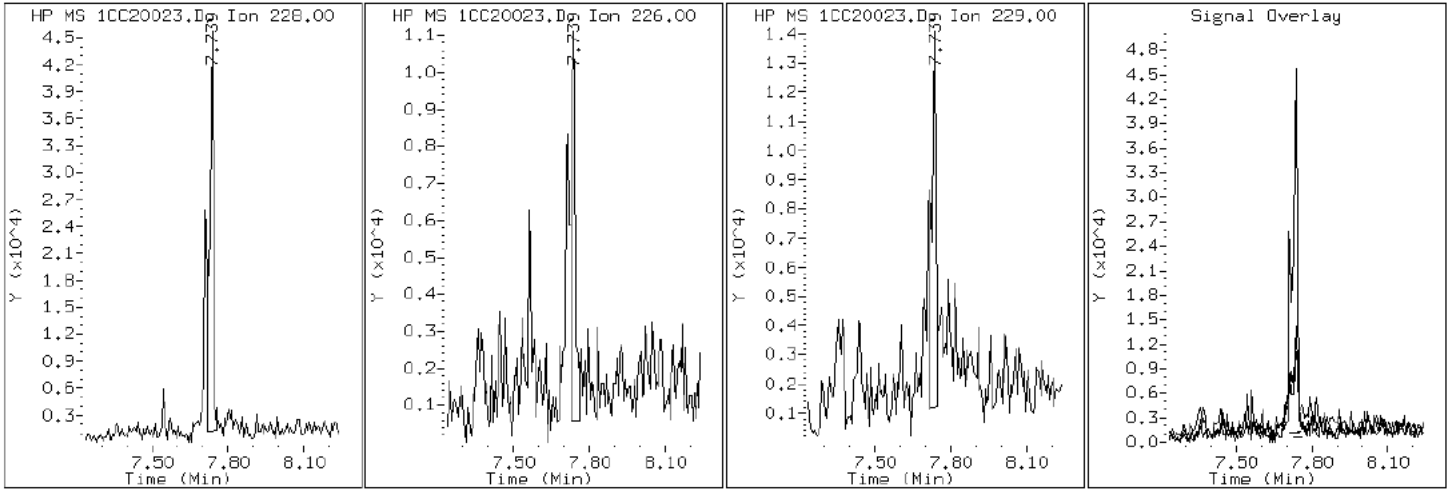
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

19 Chrysene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

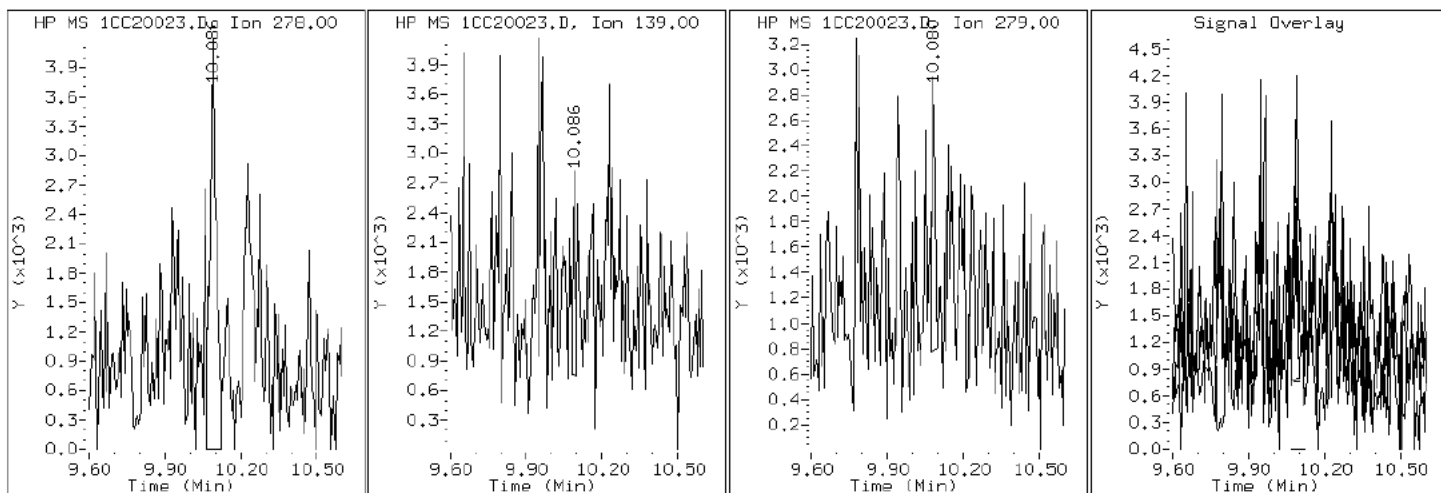
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

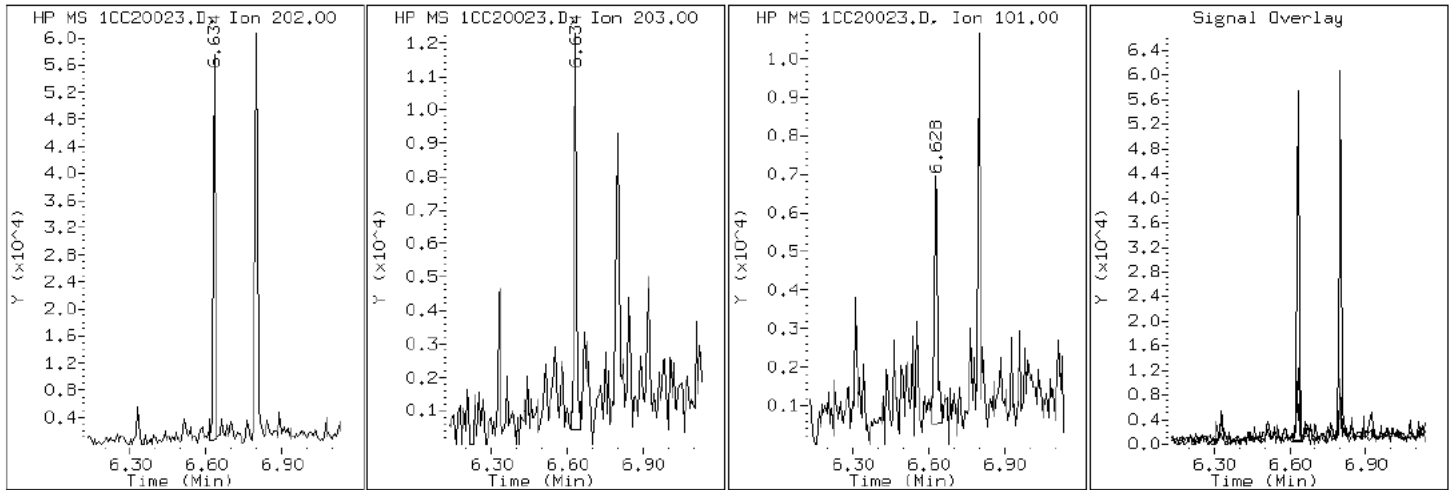
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

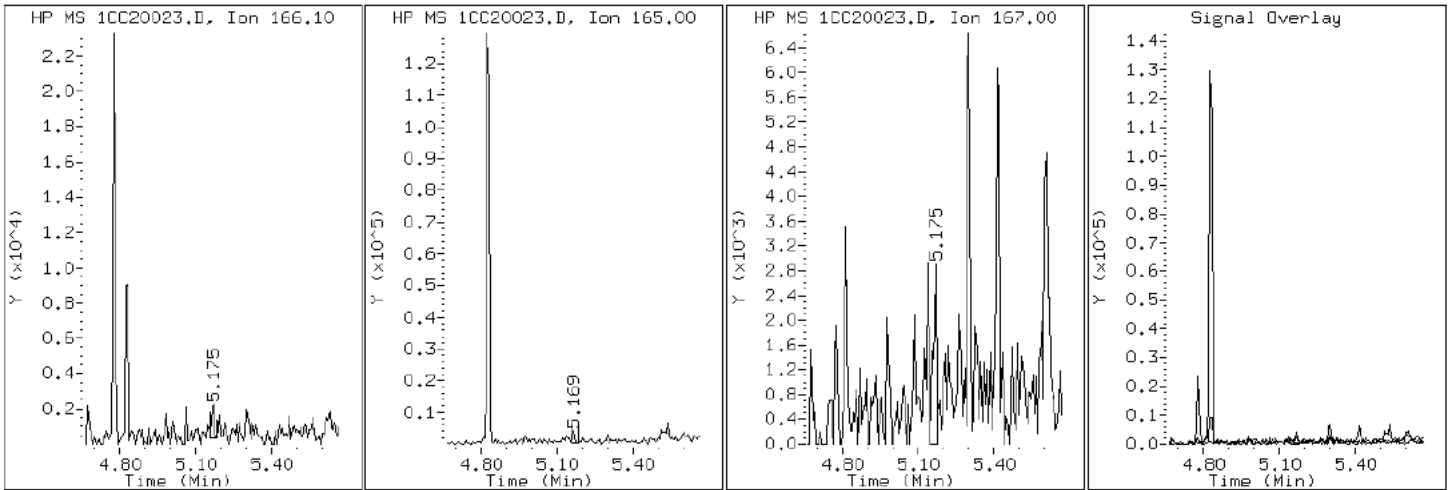
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

9 Fluorene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

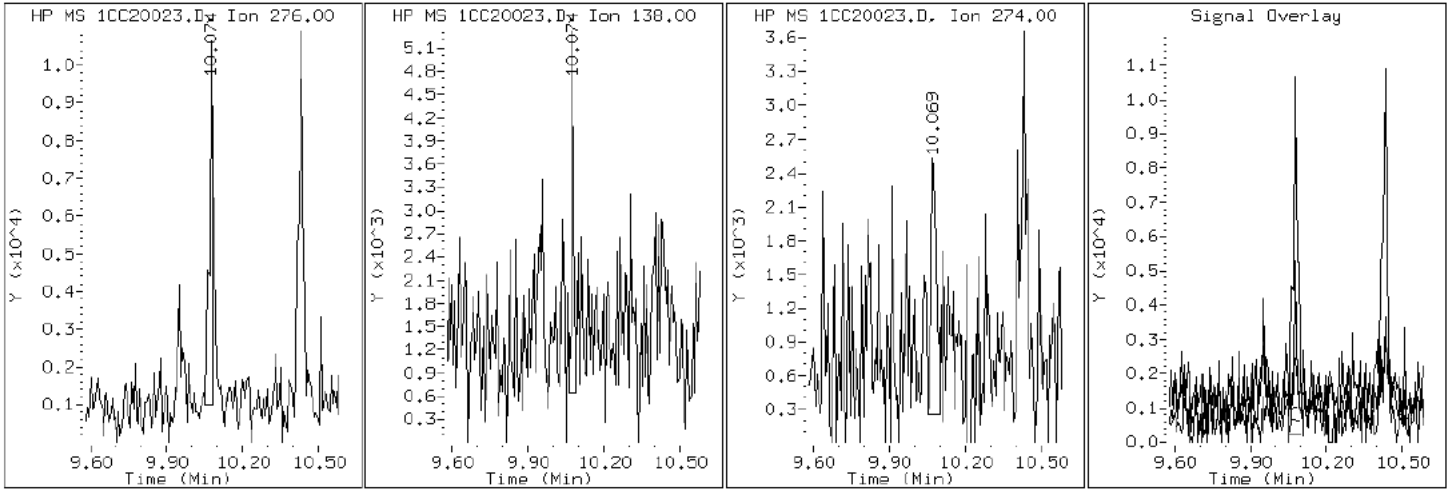
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

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



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

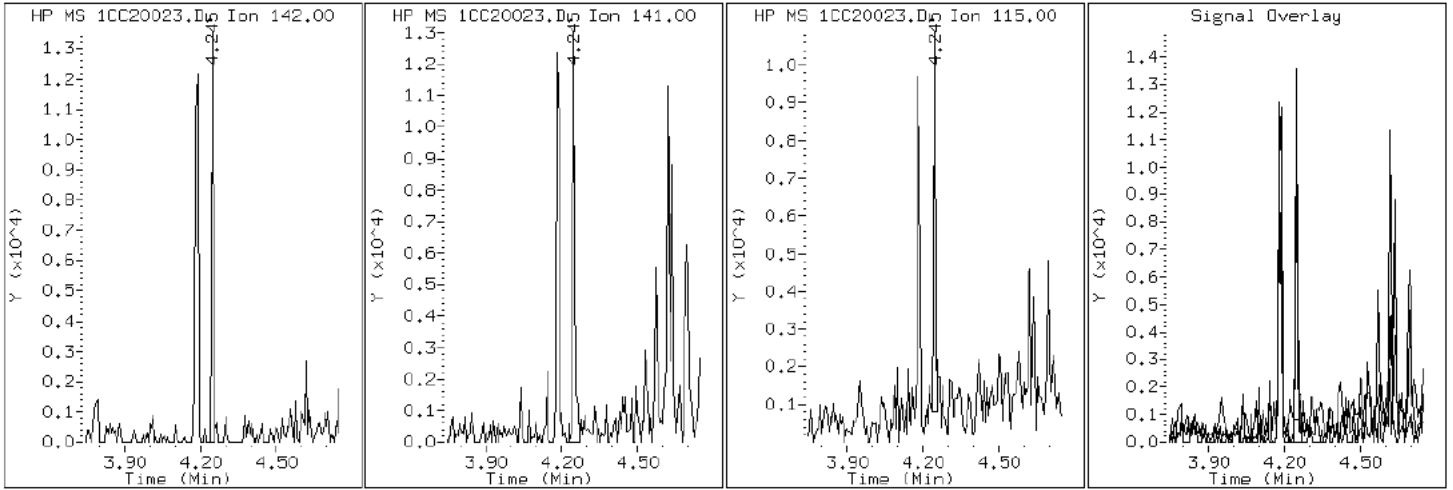
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

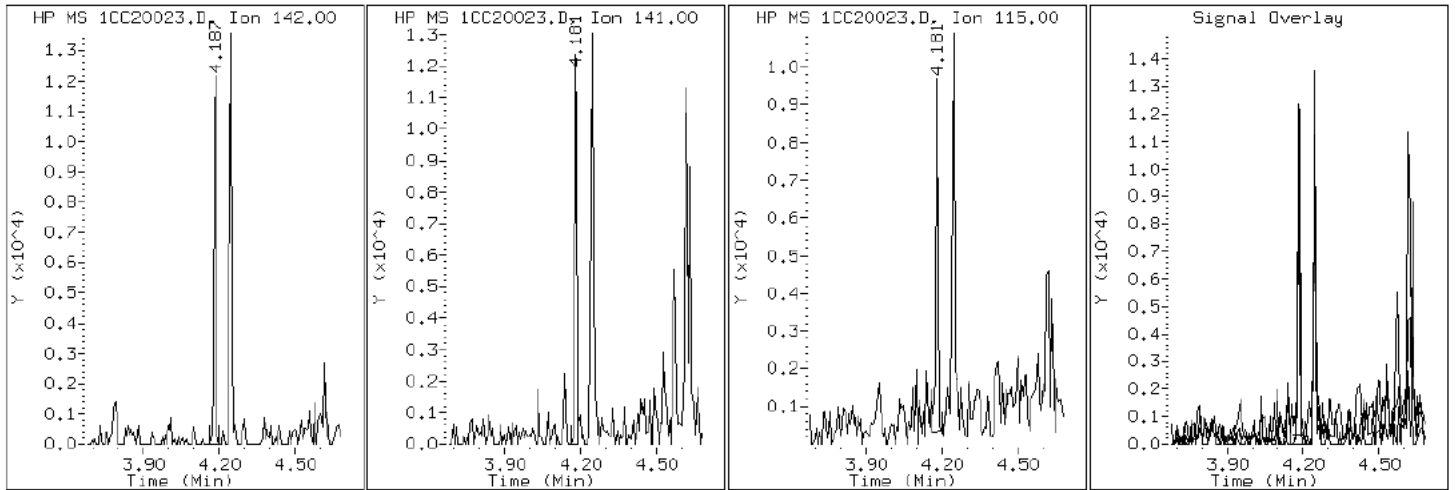
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

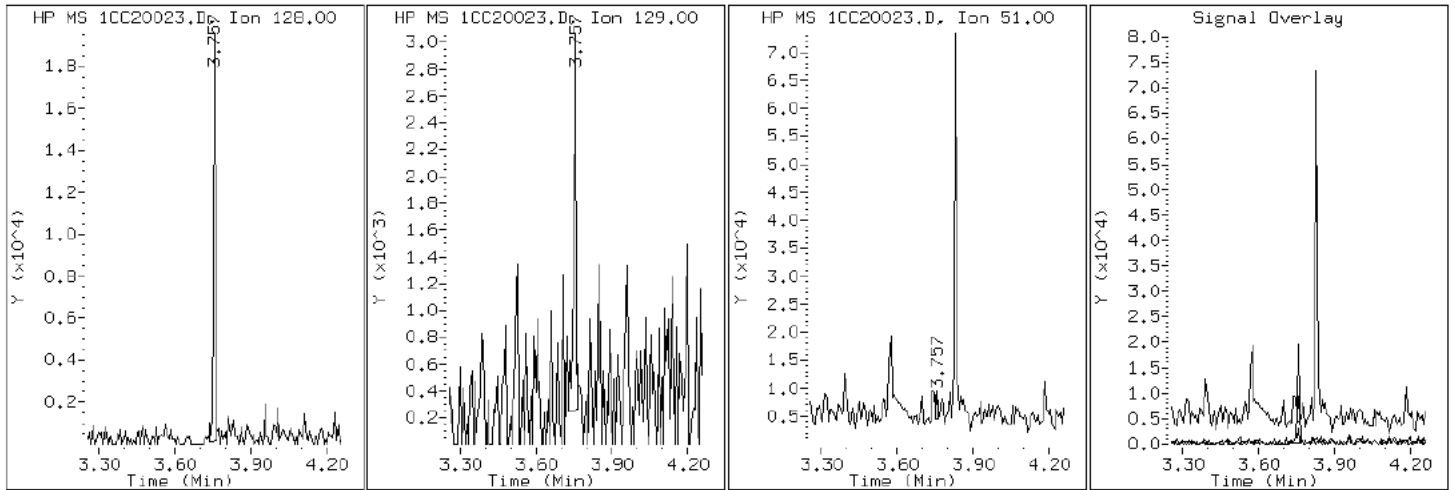
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

2 Naphthalene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

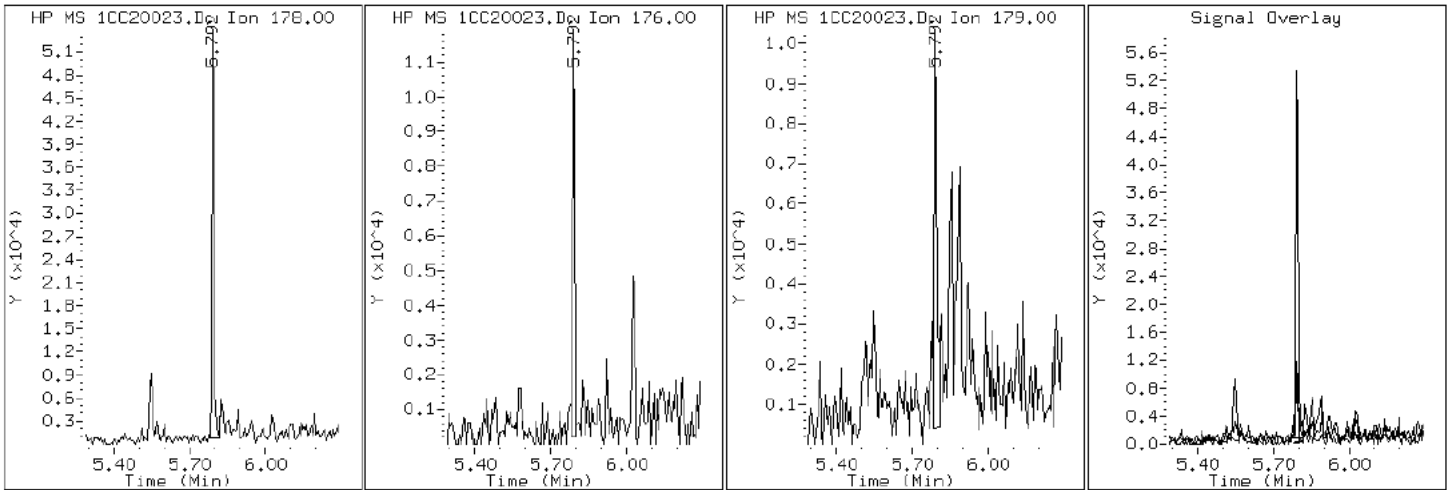
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20023.D

Date: 20-MAR-2013 16:45

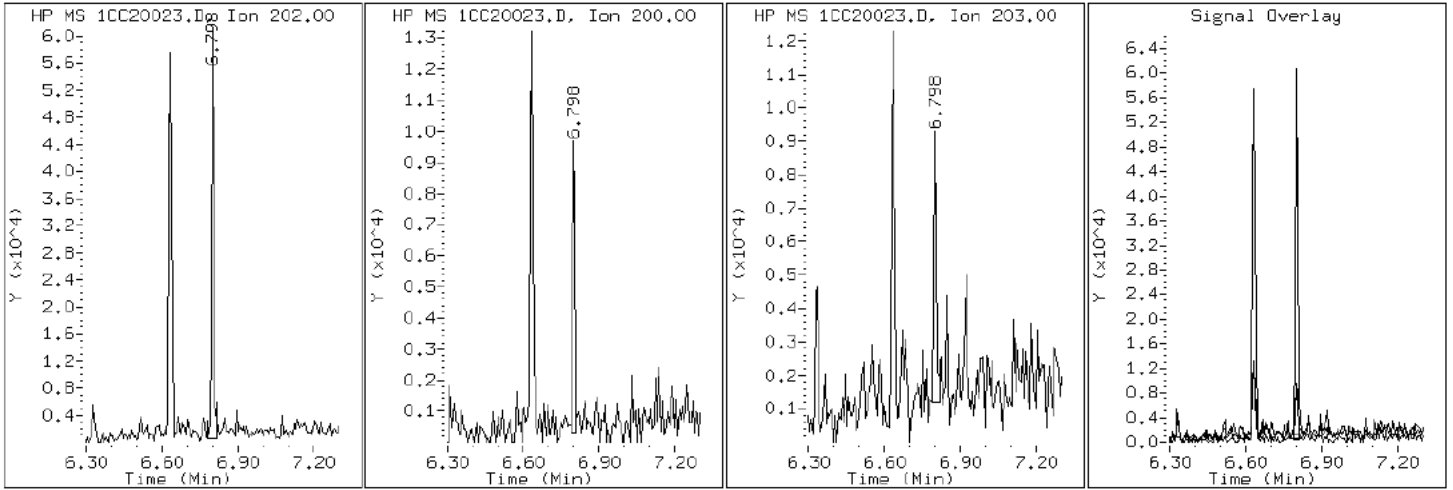
Client ID: CV0473A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-16-a

Operator: SCC

16 Pyrene

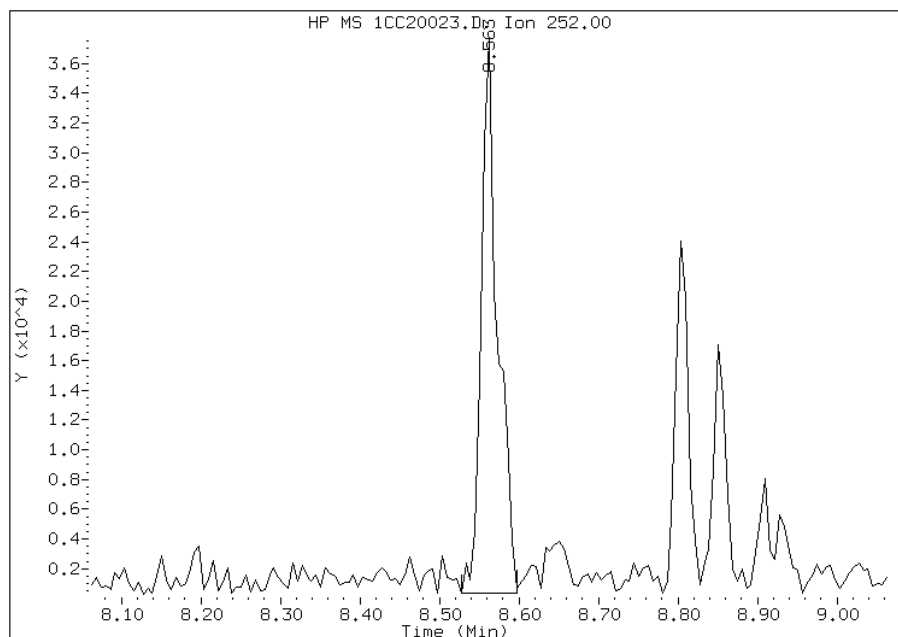


Manual Integration Report

Data File: 1CC20023.D
Inj. Date and Time: 20-MAR-2013 16:45
Instrument ID: BSMC5973.i
Client ID: CV0473A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

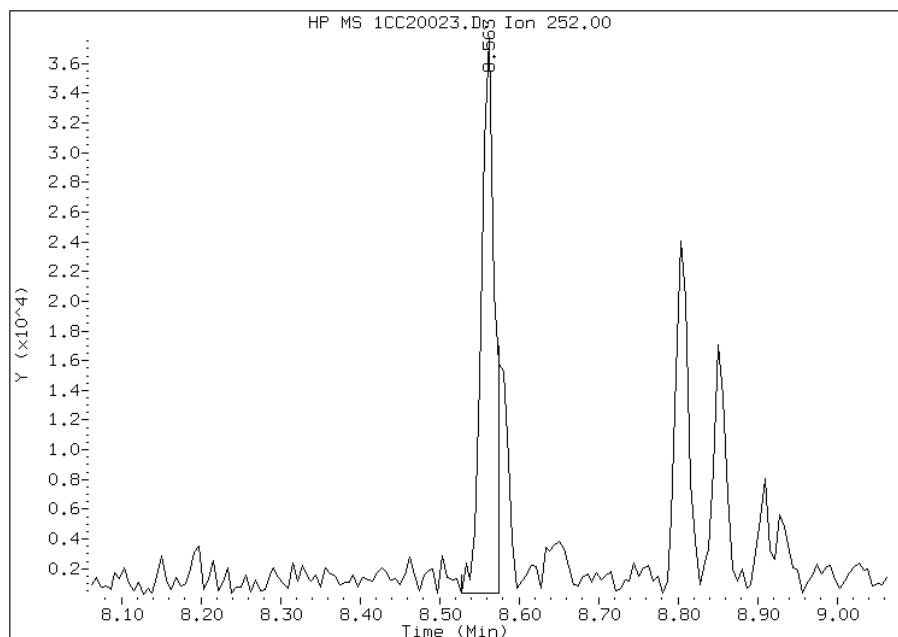
Processing Integration Results

RT: 8.56
Response: 53766
Amount: 2
Conc: 133



Manual Integration Results

RT: 8.56
Response: 43978
Amount: 1
Conc: 108



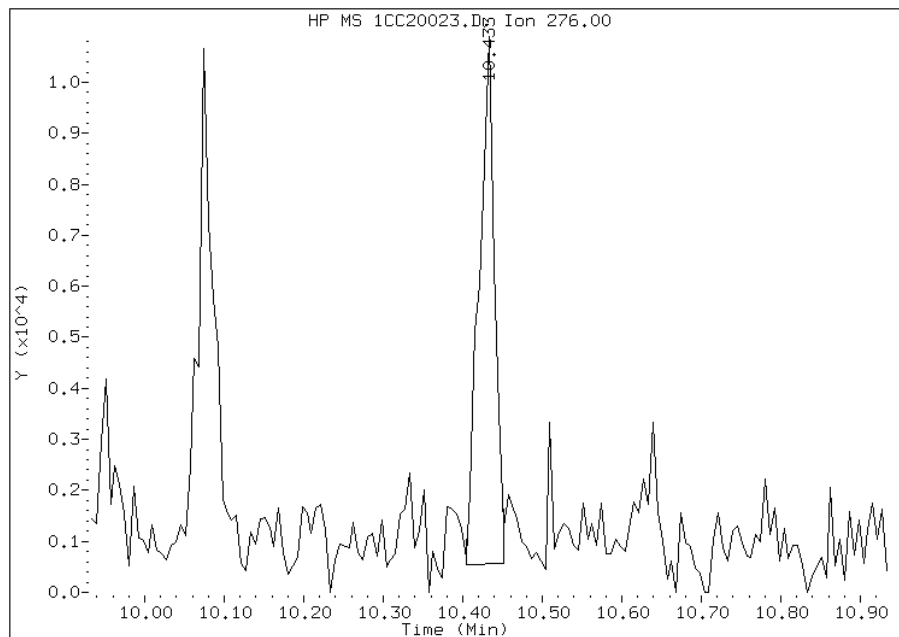
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:11
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20023.D
Inj. Date and Time: 20-MAR-2013 16:45
Instrument ID: BSMC5973.i
Client ID: CV0473A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 03/21/2013

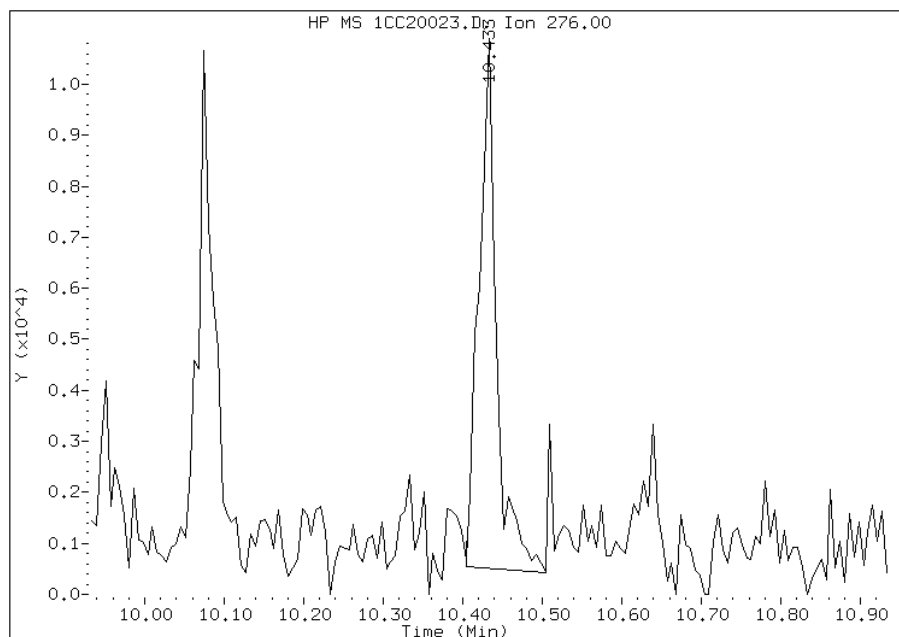
Processing Integration Results

RT: 10.43
Response: 13877
Amount: 0
Conc: 36



Manual Integration Results

RT: 10.43
Response: 15883
Amount: 0
Conc: 41



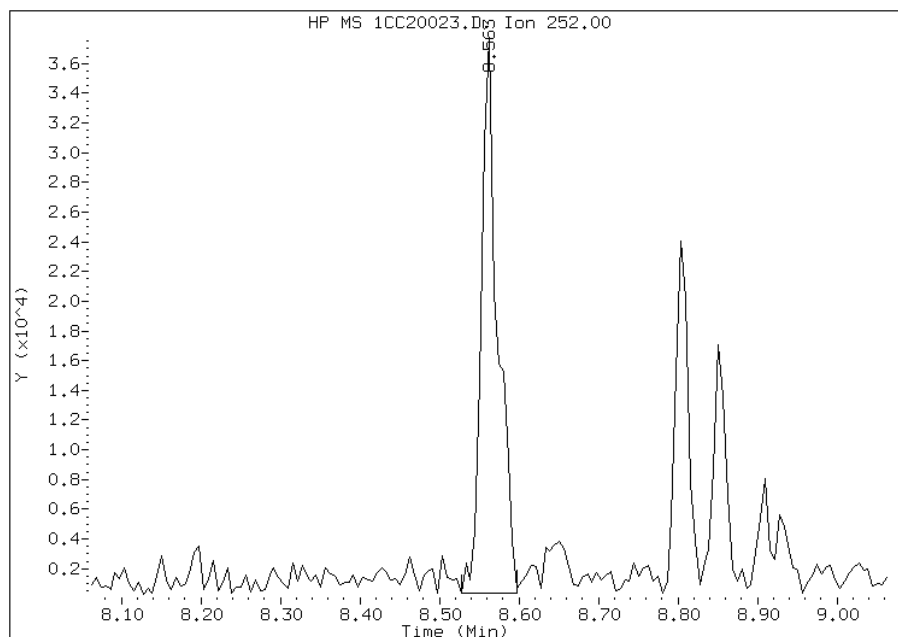
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20023.D
Inj. Date and Time: 20-MAR-2013 16:45
Instrument ID: BSMC5973.i
Client ID: CV0473A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

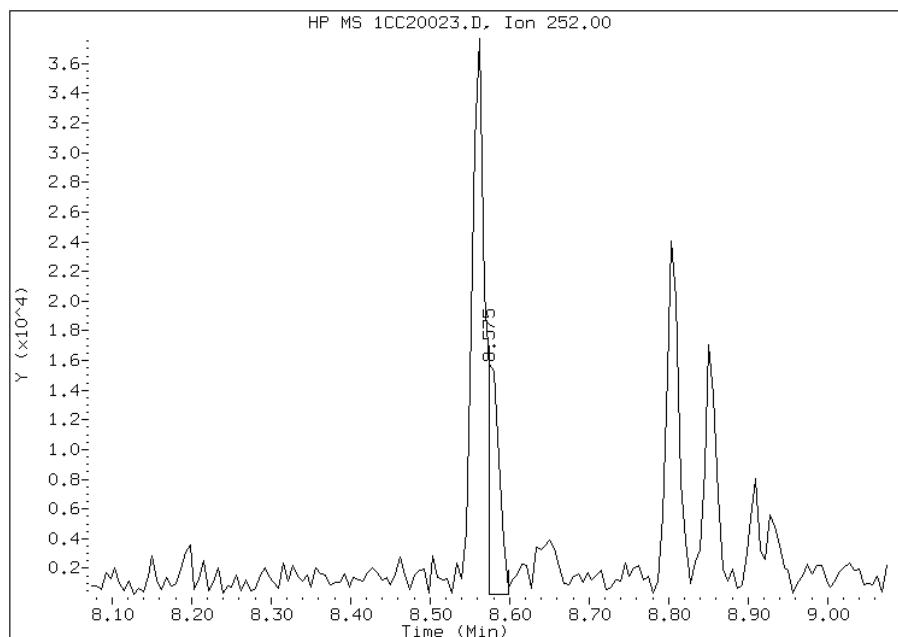
Processing Integration Results

RT: 8.56
Response: 53766
Amount: 1
Conc: 129



Manual Integration Results

RT: 8.57
Response: 15399
Amount: 0
Conc: 37



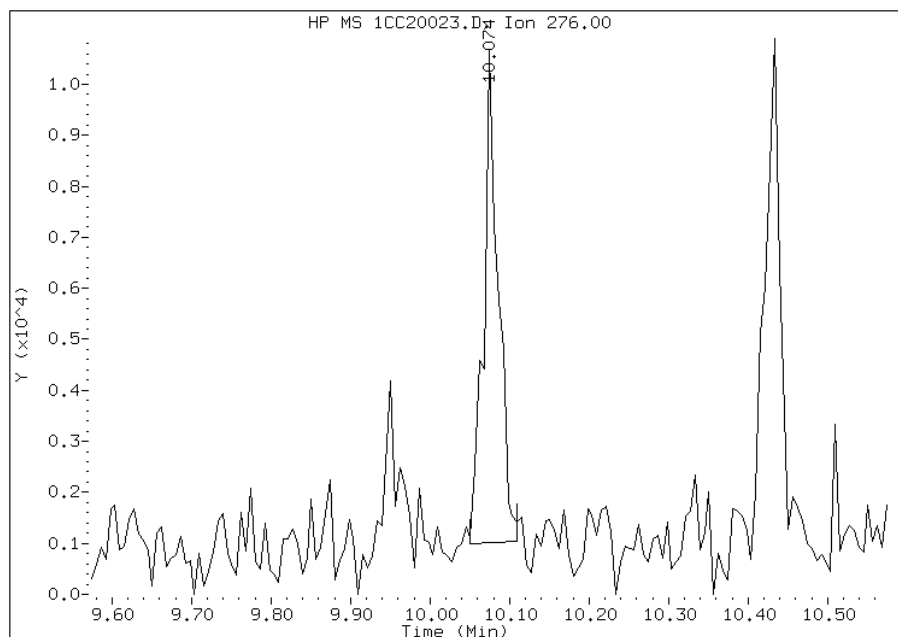
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20023.D
Inj. Date and Time: 20-MAR-2013 16:45
Instrument ID: BSMC5973.i
Client ID: CV0473A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

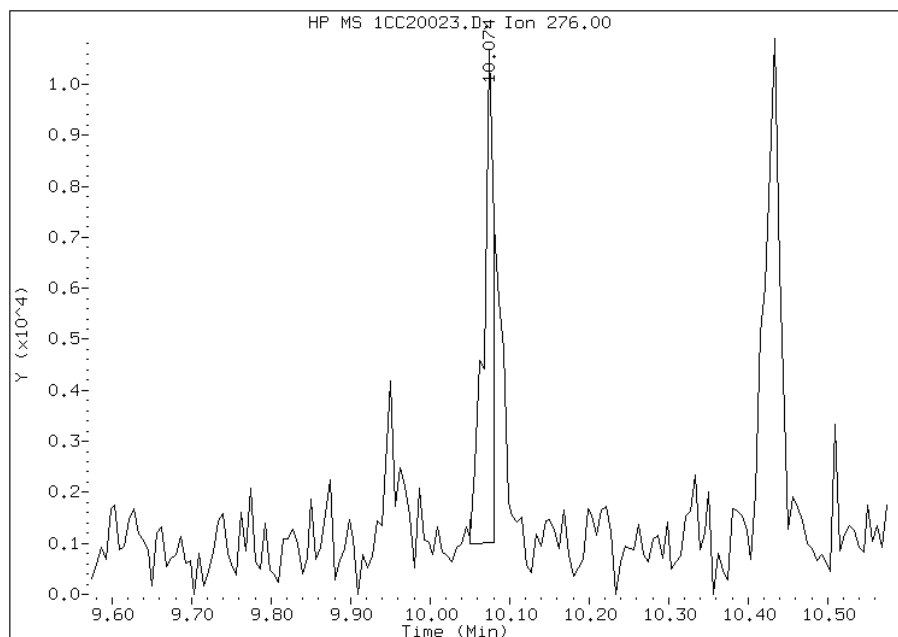
Processing Integration Results

RT: 10.07
Response: 12232
Amount: 0
Conc: 33



Manual Integration Results

RT: 10.07
Response: 8619
Amount: 0
Conc: 23



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0457A-CS Lab Sample ID: 680-88176-17
 Matrix: Solid Lab File ID: 1CC20024.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 14:00
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.23(g) Date Analyzed: 03/20/2013 17:03
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 16.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	94
208-96-8	Acenaphthylene	190	U	190	24
120-12-7	Anthracene	71		40	20
56-55-3	Benzo[a]anthracene	920		38	18
50-32-8	Benzo[a]pyrene	1900		49	25
205-99-2	Benzo[b]fluoranthene	2900		58	29
191-24-2	Benzo[g,h,i]perylene	1400		94	21
207-08-9	Benzo[k]fluoranthene	970		38	17
218-01-9	Chrysene	930		42	21
53-70-3	Dibenz(a,h)anthracene	390		94	19
206-44-0	Fluoranthene	1100		94	19
86-73-7	Fluorene	22	J	94	19
193-39-5	Indeno[1,2,3-cd]pyrene	1400		94	34
90-12-0	1-Methylnaphthalene	92	J	190	21
91-57-6	2-Methylnaphthalene	150	J	190	34
91-20-3	Naphthalene	110	J	190	21
85-01-8	Phenanthrene	420		38	18
129-00-0	Pyrene	690		94	17

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\1C032013.b\1CC20024.D
 Lab Smp Id: 680-88176-A-17-A Client Smp ID: CV0457A-CS
 Inj Date : 20-MAR-2013 17:03
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-17-a
 Misc Info : 680-88176-A-17-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 24
 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	15.230	Weight Extracted
M	16.529	% 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		3.745	3.745	(1.000)	965636	40.0000		
* 6 Acenaphthene-d10	164		4.833	4.827	(1.000)	743526	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1422233	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	38911	1.81206	570.1614	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	2512855	40.0000		
* 23 Perylene-d12	264		8.915	8.909	(1.000)	1434526	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	8441	0.33577	105.6494(Q)	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	8014	0.47791	150.3724	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	4485	0.29367	92.4011	
9 Fluorene	166		5.174	5.169	(1.071)	1637	0.06947	21.8589(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	55179	1.34175	422.1776	
12 Anthracene	178		5.827	5.827	(1.008)	9048	0.22496	70.7844	
13 Carbazole	167		5.933	5.933	(1.026)	8121	0.22714	71.4705	
15 Fluoranthene	202		6.633	6.633	(1.148)	156771	3.48098	1095.2798	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.798	6.798	(0.880)	147597	2.18567	687.7157
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	212931	2.93593	923.7834
19 Chrysene	228	7.739	7.739	(1.002)	214823	2.95980	931.2921
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.960)	342071	9.12445	2870.9838(M)
21 Benzo(k)fluoranthene	252	8.586	8.586	(0.963)	119054	3.09566	974.0400(QMH)
22 Benzo(a)pyrene	252	8.856	8.857	(0.993)	224298	6.15957	1938.0909
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	150699	4.39922	1384.2044(M)
25 Dibenzo(a,h)anthracene	278	10.097	10.098	(1.133)	41046	1.22500	385.4423
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.170)	163119	4.55202	1432.2796

QC Flag Legend

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

Data File: 1CC20024.D

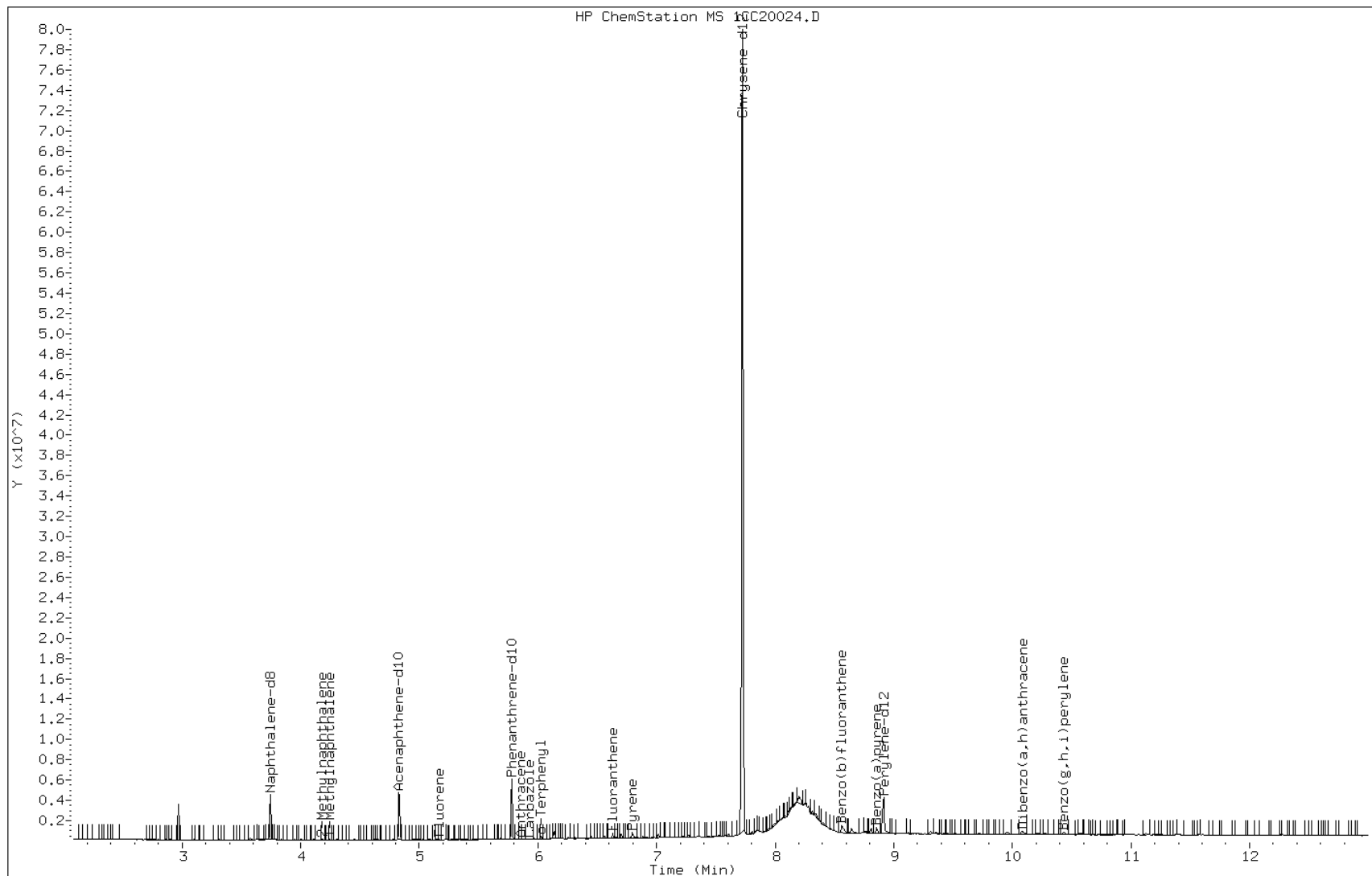
Date: 20-MAR-2013 17:03

Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

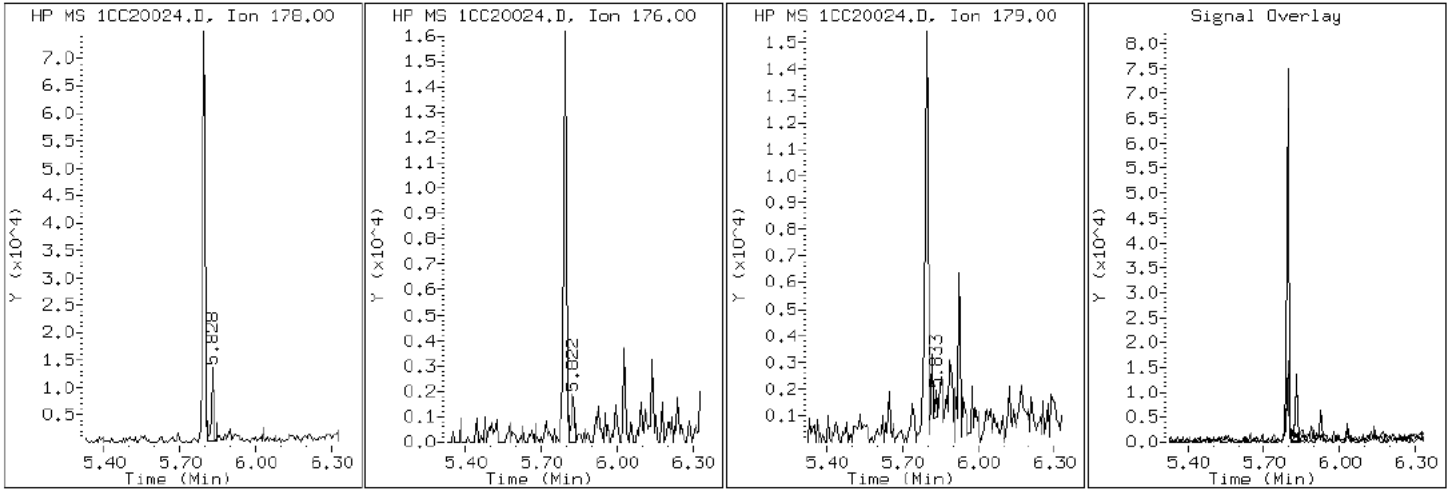
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

12 Anthracene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

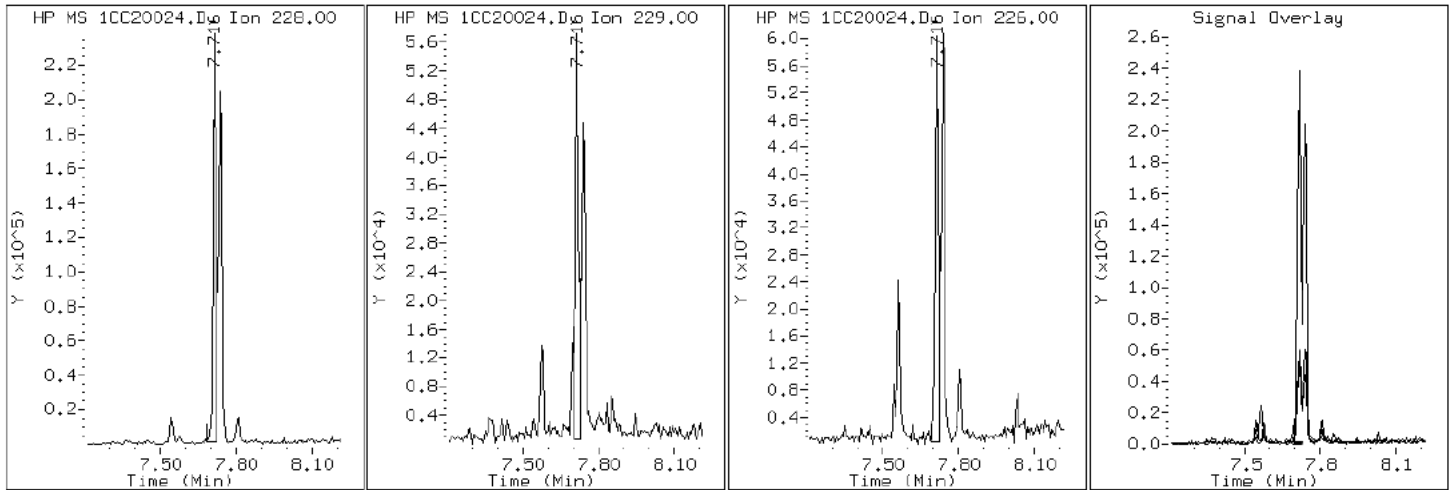
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

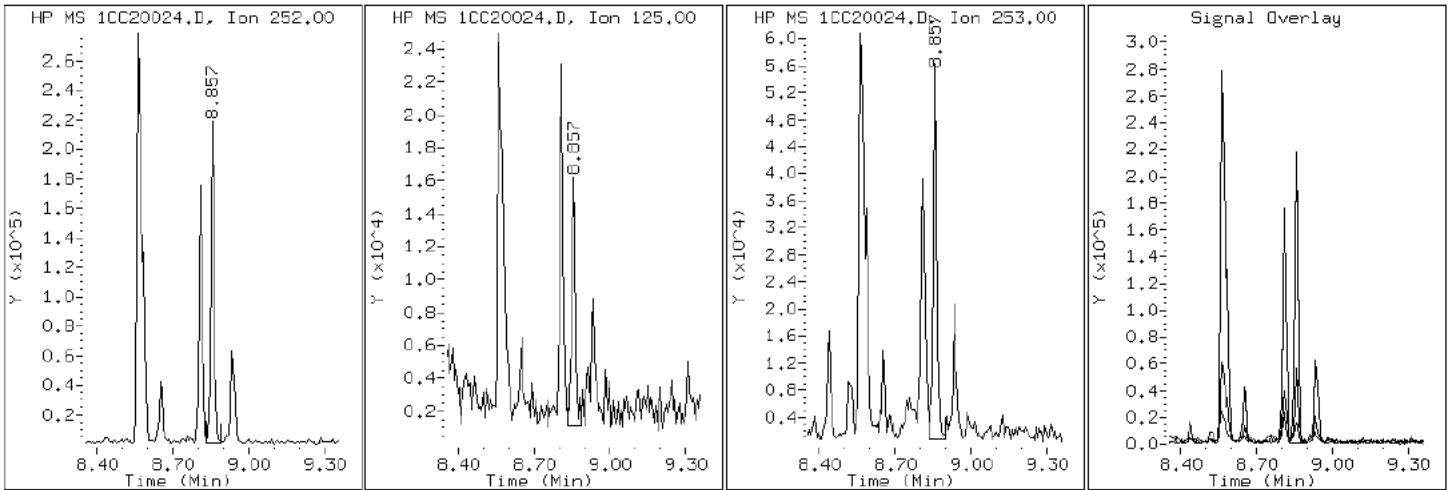
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

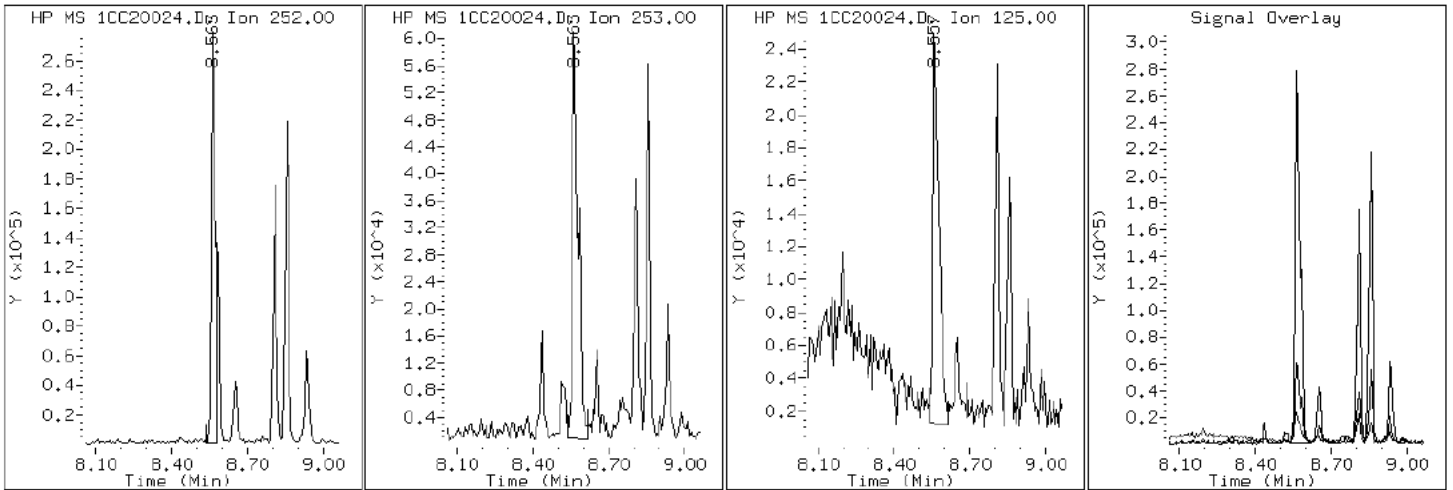
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

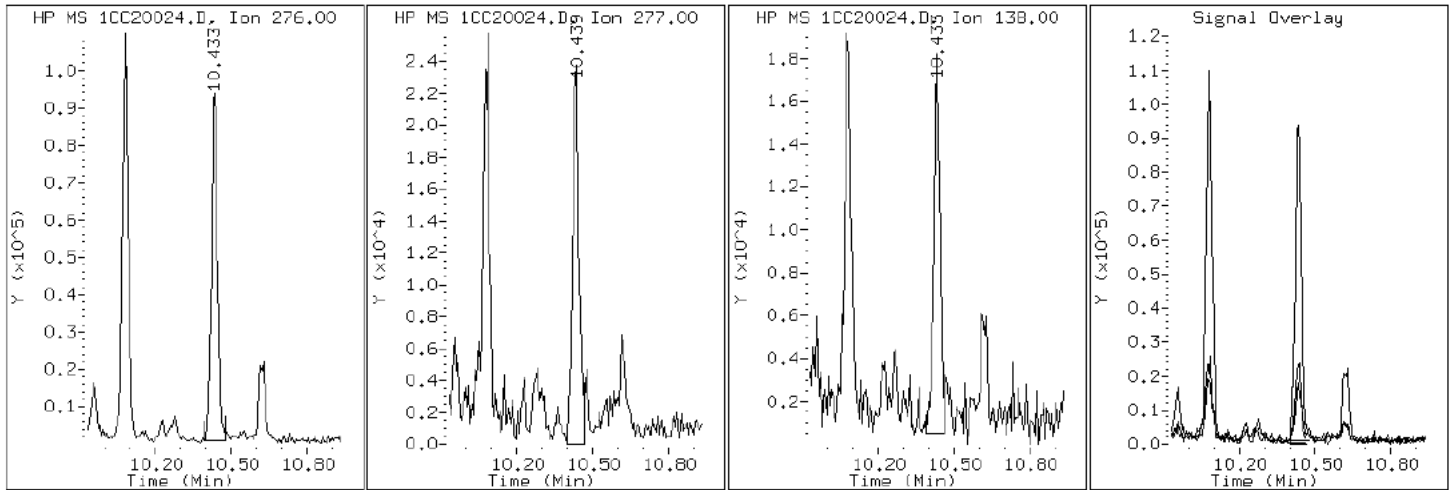
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

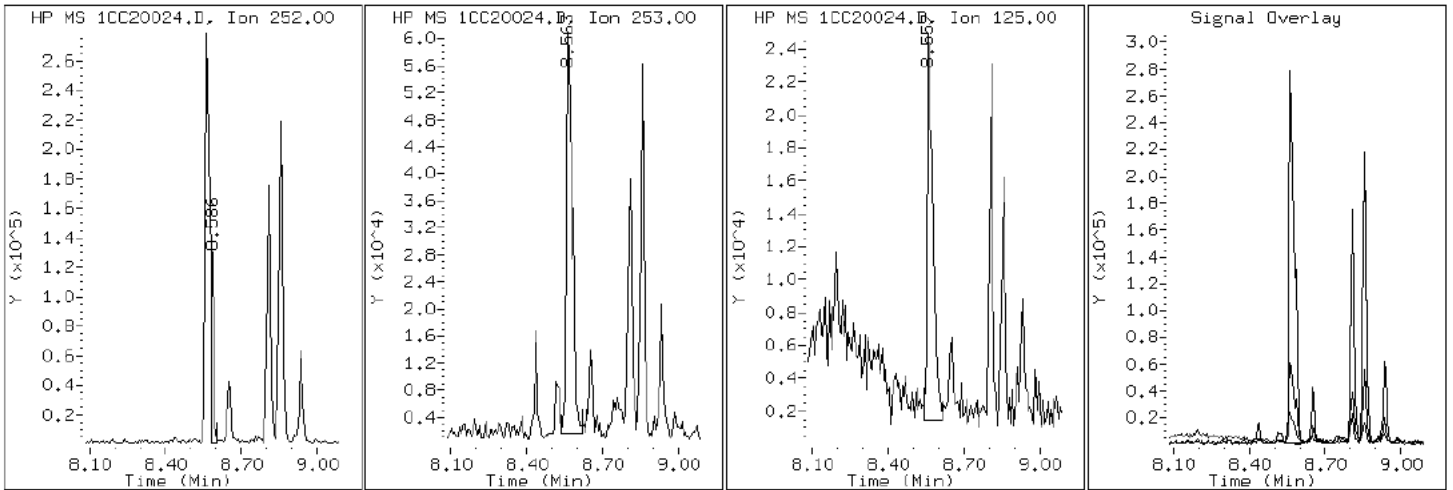
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

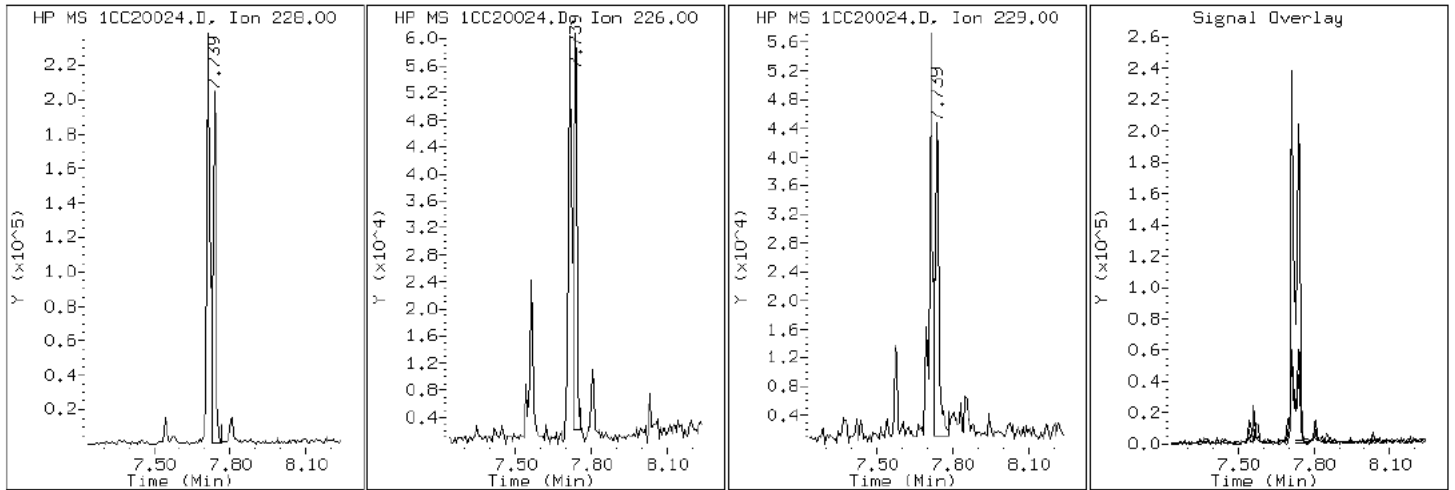
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

19 Chrysene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

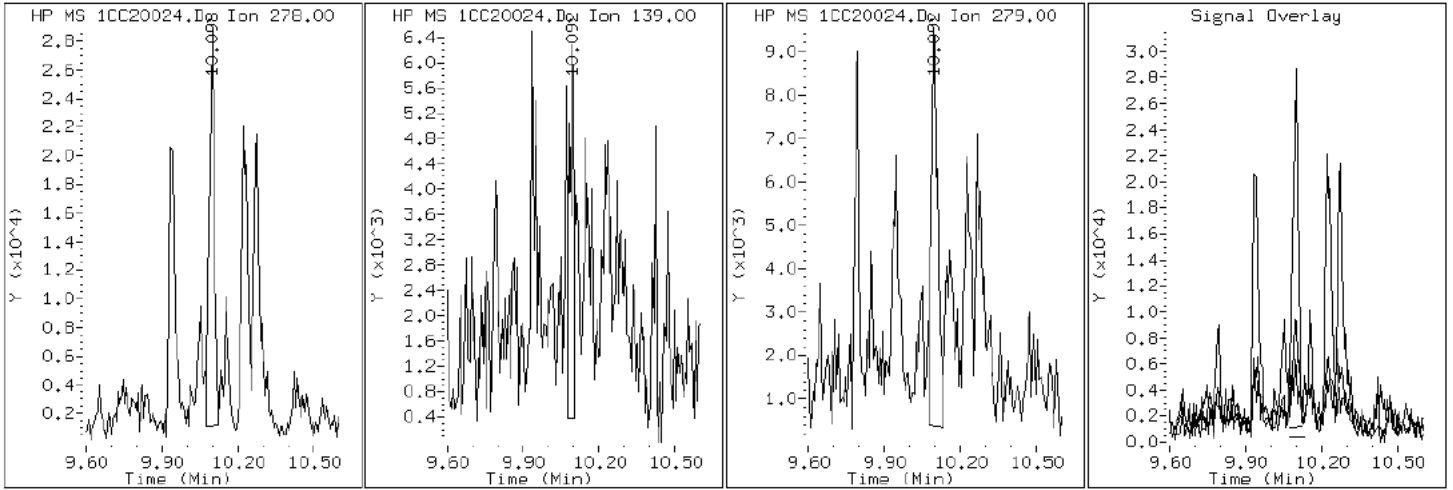
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

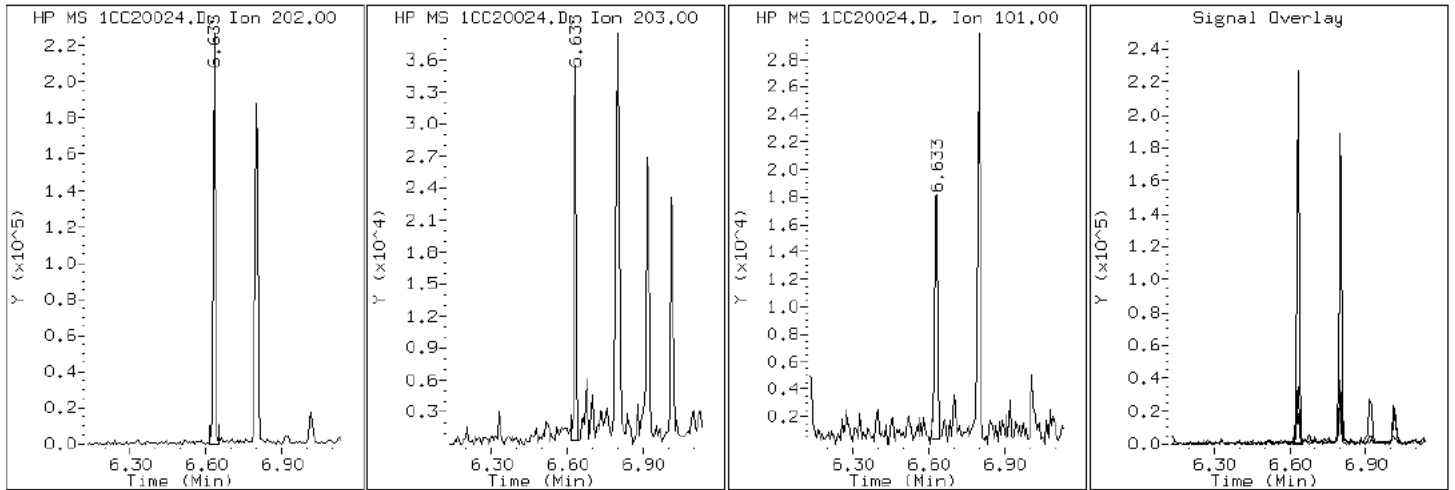
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

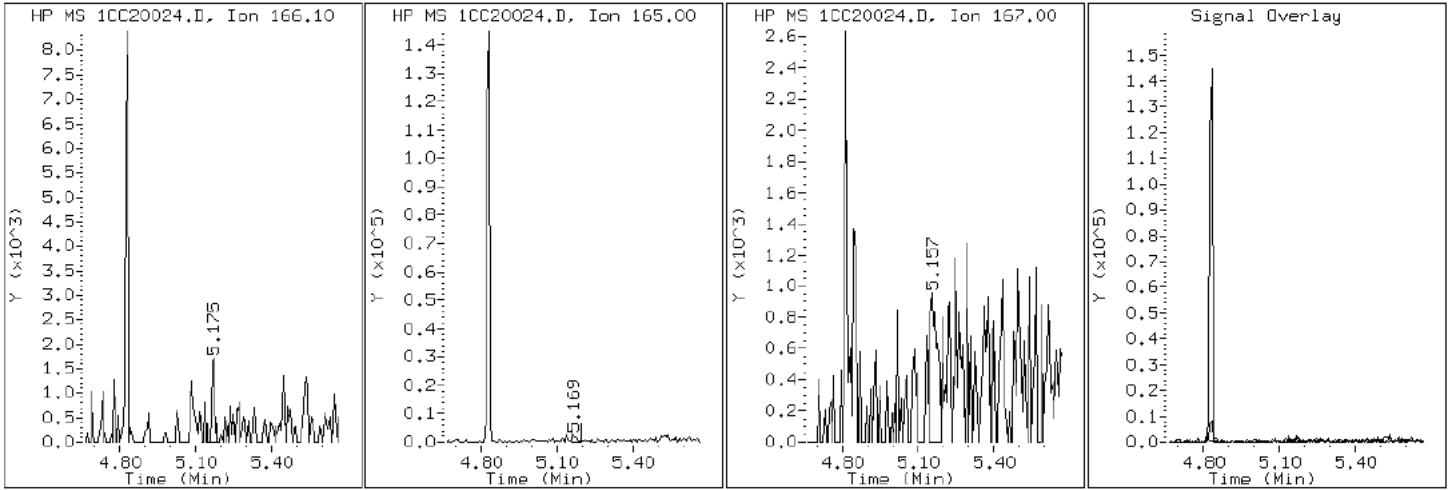
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

9 Fluorene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

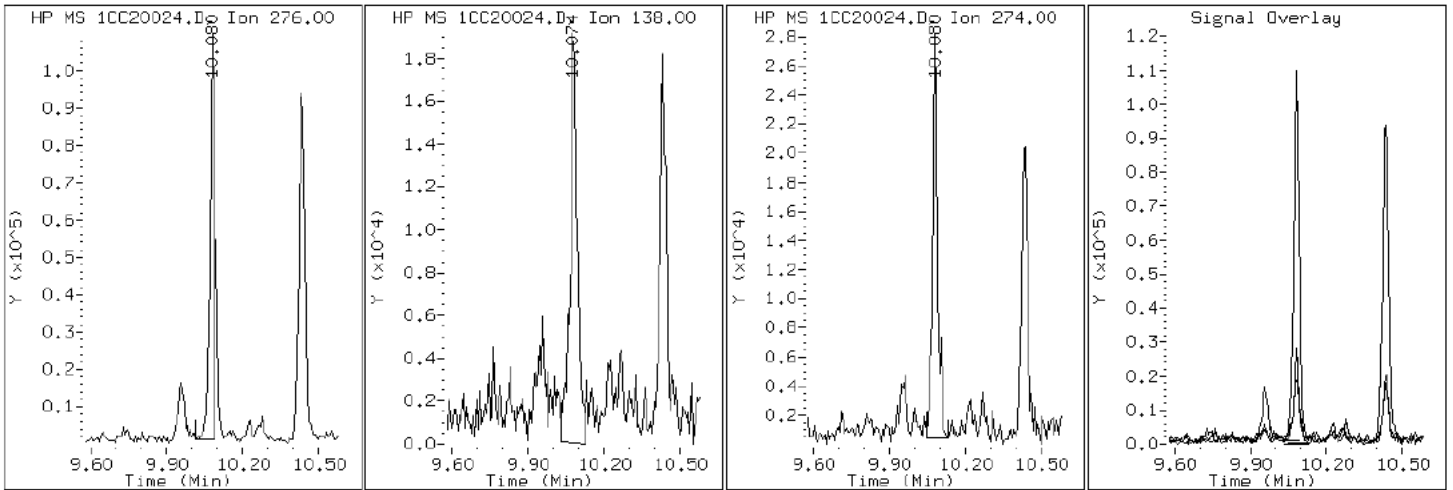
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

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



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

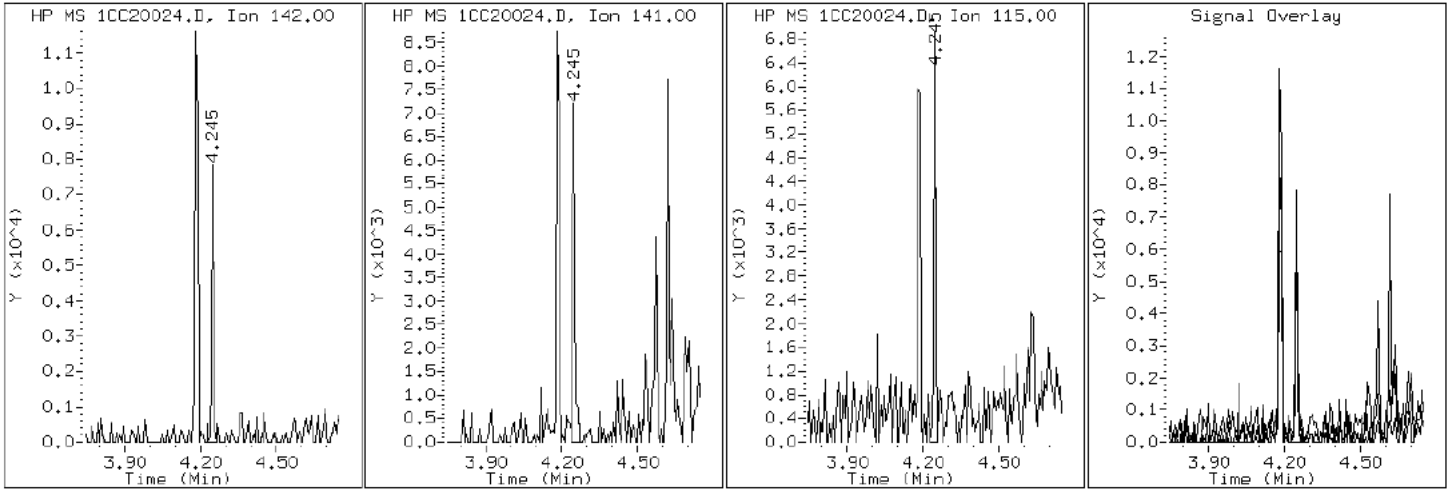
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

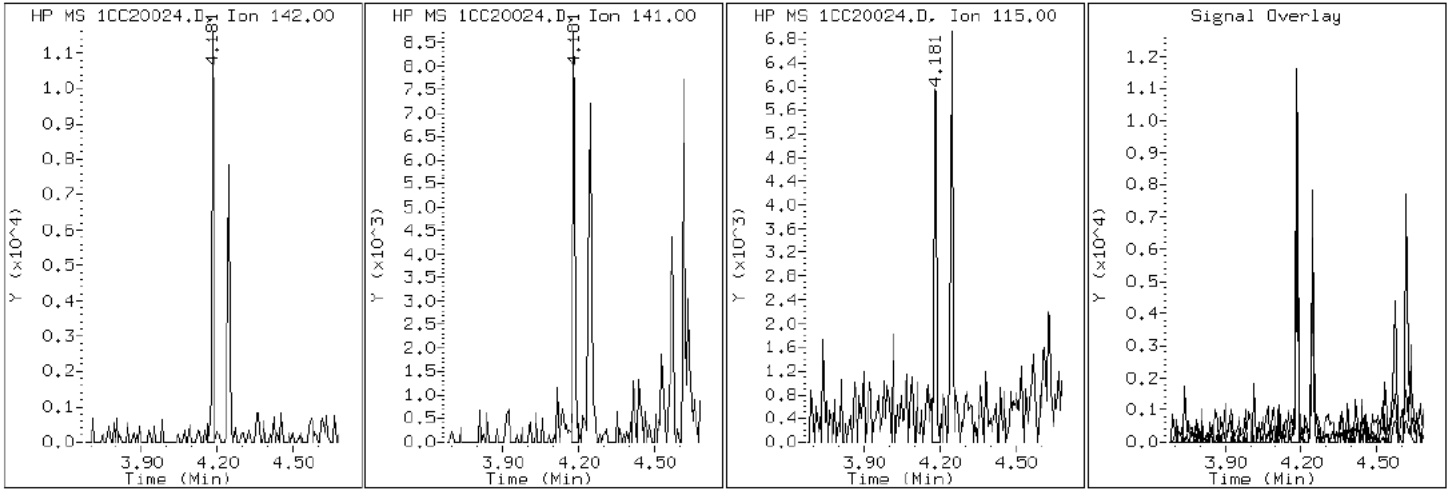
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

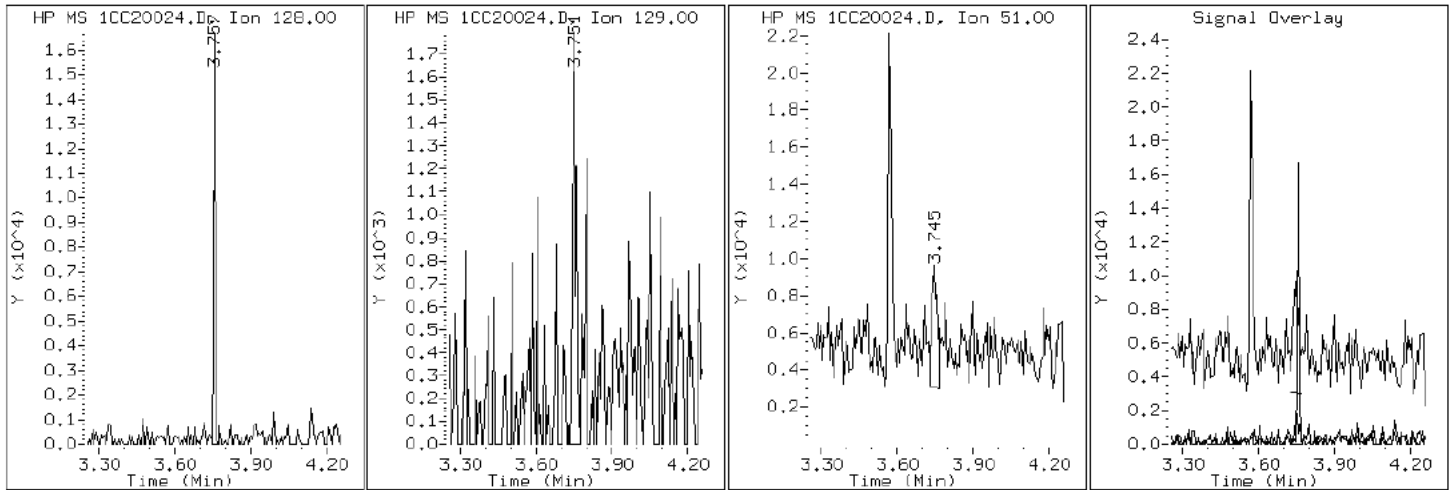
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

2 Naphthalene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

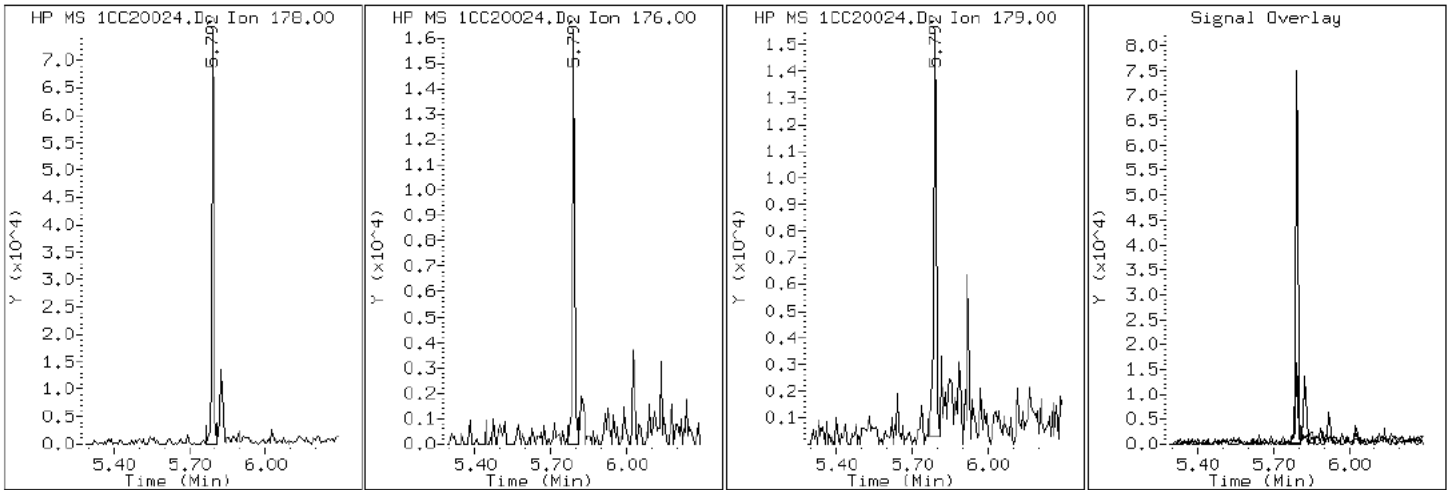
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20024.D

Date: 20-MAR-2013 17:03

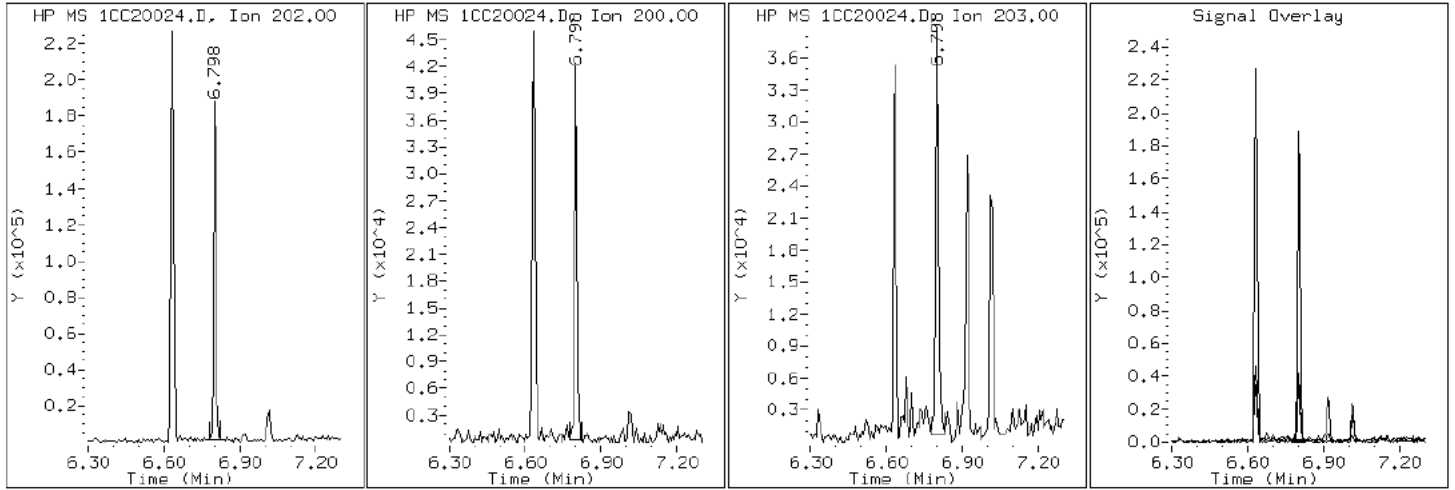
Client ID: CV0457A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-17-a

Operator: SCC

16 Pyrene

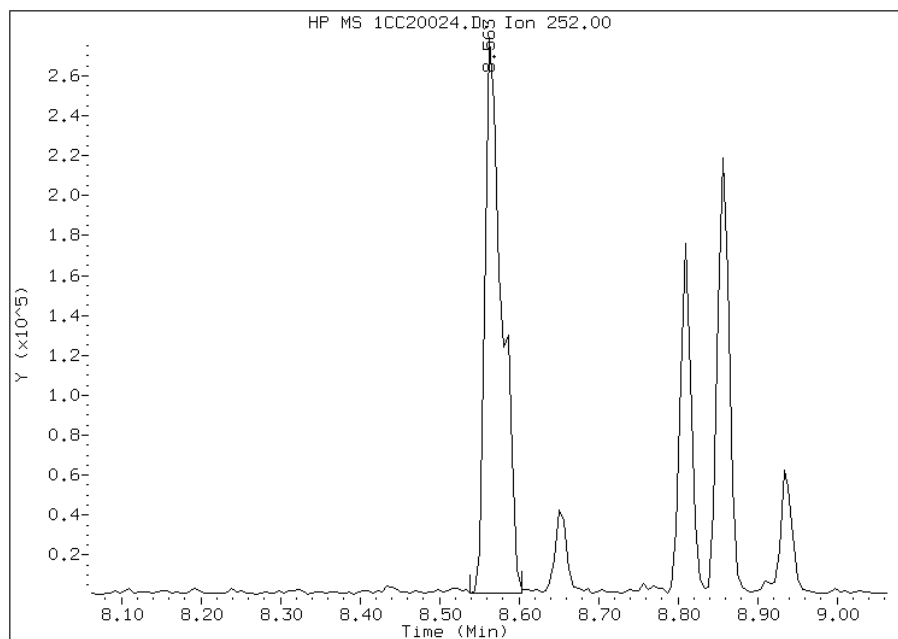


Manual Integration Report

Data File: 1CC20024.D
Inj. Date and Time: 20-MAR-2013 17:03
Instrument ID: BSMC5973.i
Client ID: CV0457A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

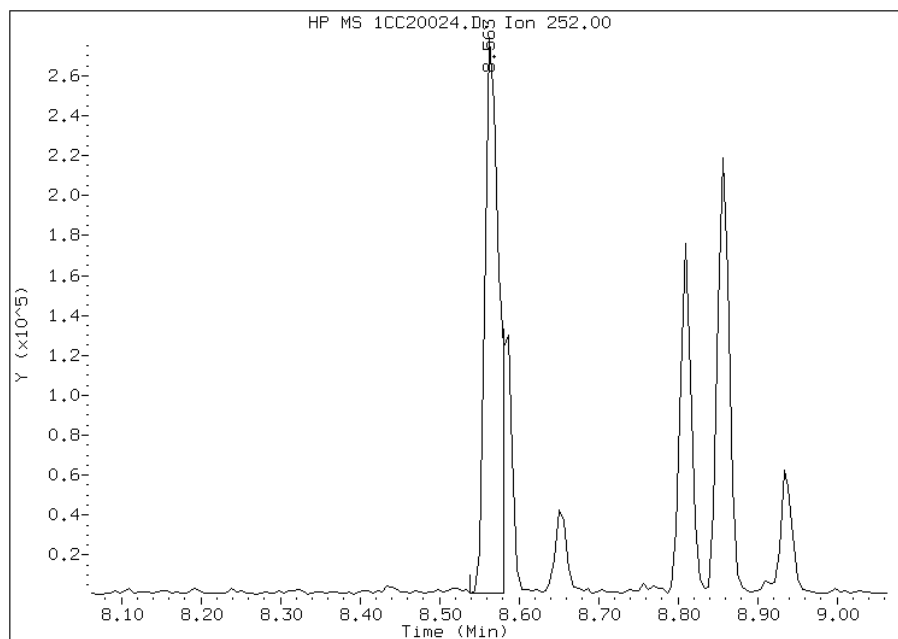
Processing Integration Results

RT: 8.56
Response: 416982
Amount: 11
Conc: 3500



Manual Integration Results

RT: 8.56
Response: 342071
Amount: 9
Conc: 2871



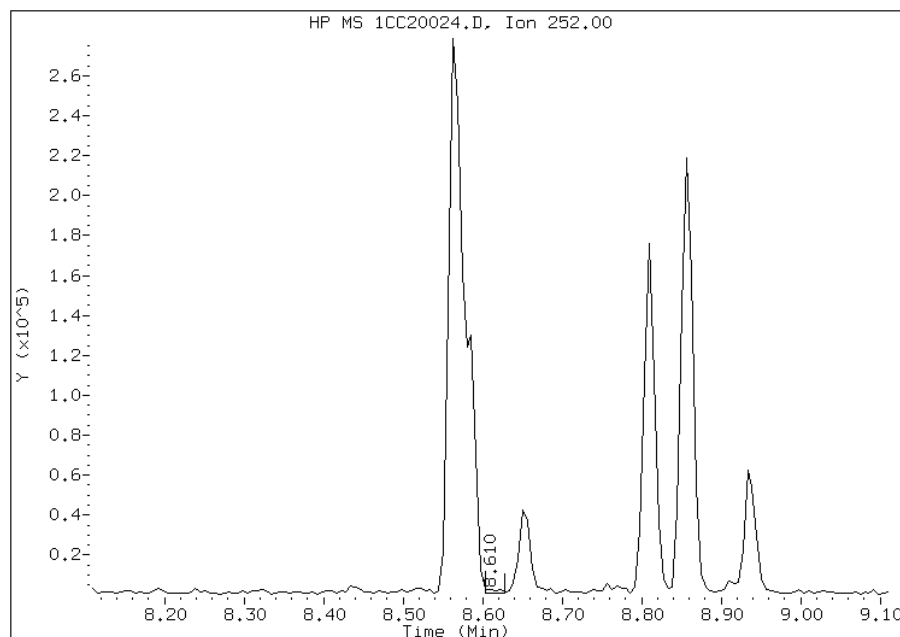
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:12
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20024.D
Inj. Date and Time: 20-MAR-2013 17:03
Instrument ID: BSMC5973.i
Client ID: CV0457A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

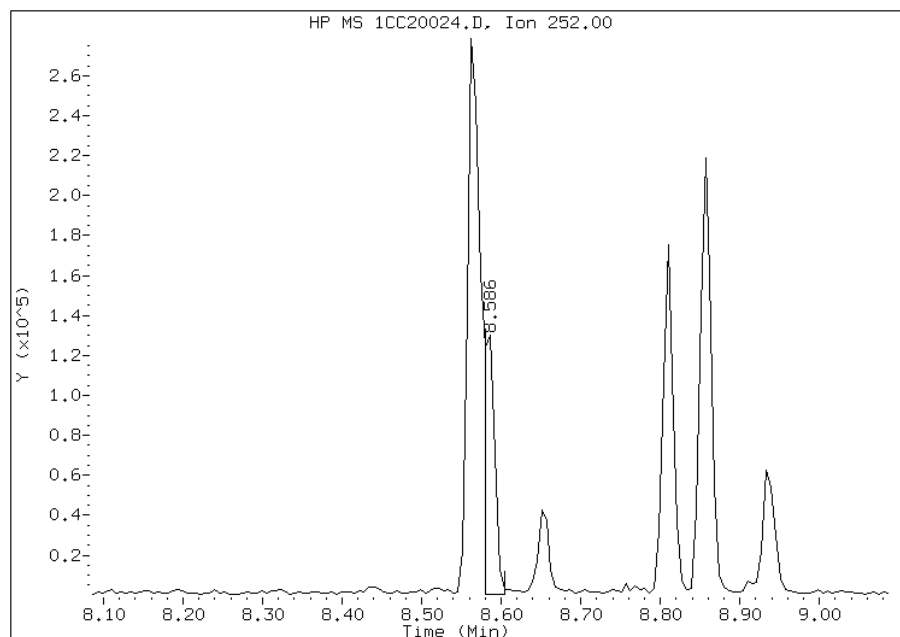
Processing Integration Results

RT: 8.61
Response: 3010
Amount: 0
Conc: 25



Manual Integration Results

RT: 8.59
Response: 119054
Amount: 3
Conc: 974



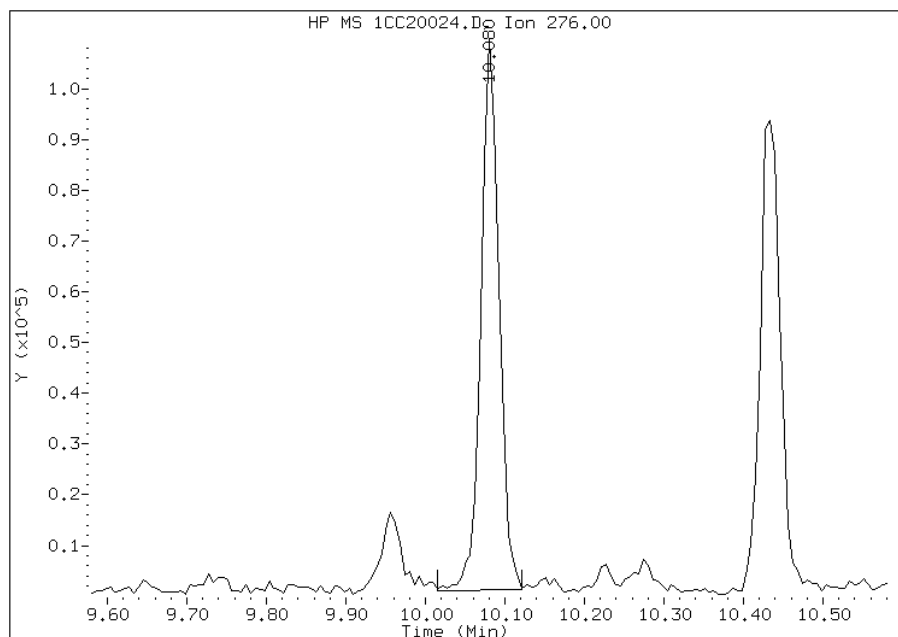
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:13
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20024.D
Inj. Date and Time: 20-MAR-2013 17:03
Instrument ID: BSMC5973.i
Client ID: CV0457A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

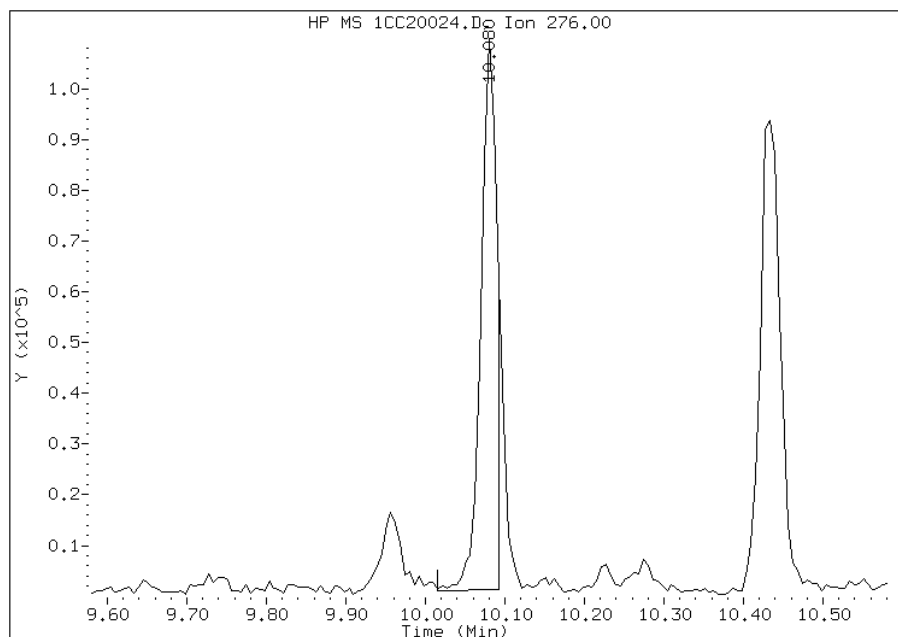
Processing Integration Results

RT: 10.08
Response: 169967
Amount: 5
Conc: 1561



Manual Integration Results

RT: 10.08
Response: 150699
Amount: 4
Conc: 1384



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0067A-CS Lab Sample ID: 680-88176-18
 Matrix: Solid Lab File ID: 1CC20025.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 14:30
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.12(g) Date Analyzed: 03/20/2013 17:22
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 20.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	22	J	50	6.2
120-12-7	Anthracene	34		10	5.2
56-55-3	Benzo[a]anthracene	130		9.9	4.8
50-32-8	Benzo[a]pyrene	130		13	6.5
205-99-2	Benzo[b]fluoranthene	240		15	7.6
191-24-2	Benzo[g,h,i]perylene	120		25	5.5
207-08-9	Benzo[k]fluoranthene	56		9.9	4.5
218-01-9	Chrysene	280		11	5.6
53-70-3	Dibenz(a,h)anthracene	33		25	5.1
206-44-0	Fluoranthene	240		25	5.0
86-73-7	Fluorene	17	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	79		25	8.8
90-12-0	1-Methylnaphthalene	160		50	5.5
91-57-6	2-Methylnaphthalene	150		50	8.8
91-20-3	Naphthalene	120		50	5.5
85-01-8	Phenanthrene	350		9.9	4.8
129-00-0	Pyrene	240		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	36		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20025.D
 Lab Smp Id: 680-88176-A-18-A Client Smp ID: CV0067A-CS
 Inj Date : 20-MAR-2013 17:22
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-18-a
 Misc Info : 680-88176-A-18-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 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	15.120	Weight Extracted
M	20.043	% 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		3.745	3.745	(1.000)	909460	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	713985	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1304277	40.0000		
\$ 14 o-Terphenyl	230		6.033	6.027	(1.044)	70162	3.56290	294.7093	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1440390	40.0000		
* 23 Perylene-d12	264		8.909	8.909	(1.000)	1338995	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	34311	1.44915	119.8677	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	29304	1.85546	153.4763	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	27134	1.88640	156.0357	
5 Acenaphthylene	152		4.745	4.745	(0.983)	7757	0.26947	22.2898	
9 Fluorene	166		5.168	5.169	(1.071)	4770	0.21081	17.4369(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	160387	4.25273	351.7686	
12 Anthracene	178		5.827	5.827	(1.008)	15071	0.40861	33.7982	
13 Carbazole	167		5.939	5.933	(1.027)	11485	0.35029	28.9744	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
15 Fluoranthene	202		6.633	6.633	(1.148)	118664	2.87313	237.6538
16 Pyrene	202		6.798	6.798	(0.880)	114093	2.94750	243.8054
17 Benzo(a)anthracene	228		7.715	7.715	(0.999)	67654	1.62738	134.6101
19 Chrysene	228		7.739	7.739	(1.002)	138973	3.34040	276.3049
20 Benzo(b)fluoranthene	252		8.562	8.562	(0.961)	99999	2.85769	236.3770
21 Benzo(k)fluoranthene	252		8.586	8.586	(0.964)	24300	0.67693	55.9930
22 Benzo(a)pyrene	252		8.856	8.857	(0.994)	52360	1.54047	127.4217
24 Indeno(1,2,3-cd)pyrene	276		10.080	10.080	(1.131)	30675	0.95936	79.3541(M)
25 Dibenzo(a,h)anthracene	278		10.098	10.098	(1.133)	12362	0.39526	32.6943
26 Benzo(g,h,i)perylene	276		10.433	10.433	(1.171)	48170	1.44014	119.1228

QC Flag Legend

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

Data File: 1CC20025.D

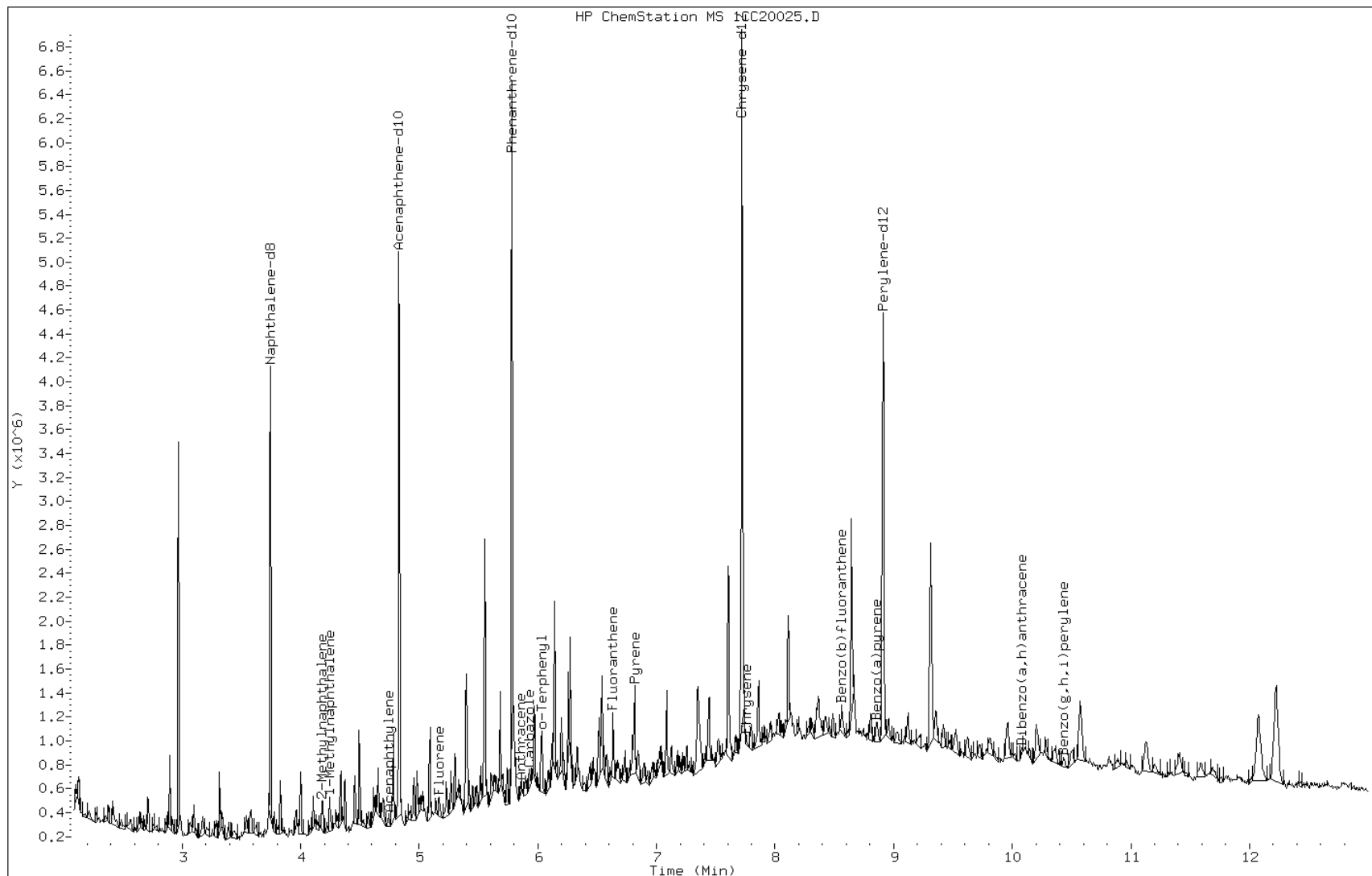
Date: 20-MAR-2013 17:22

Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

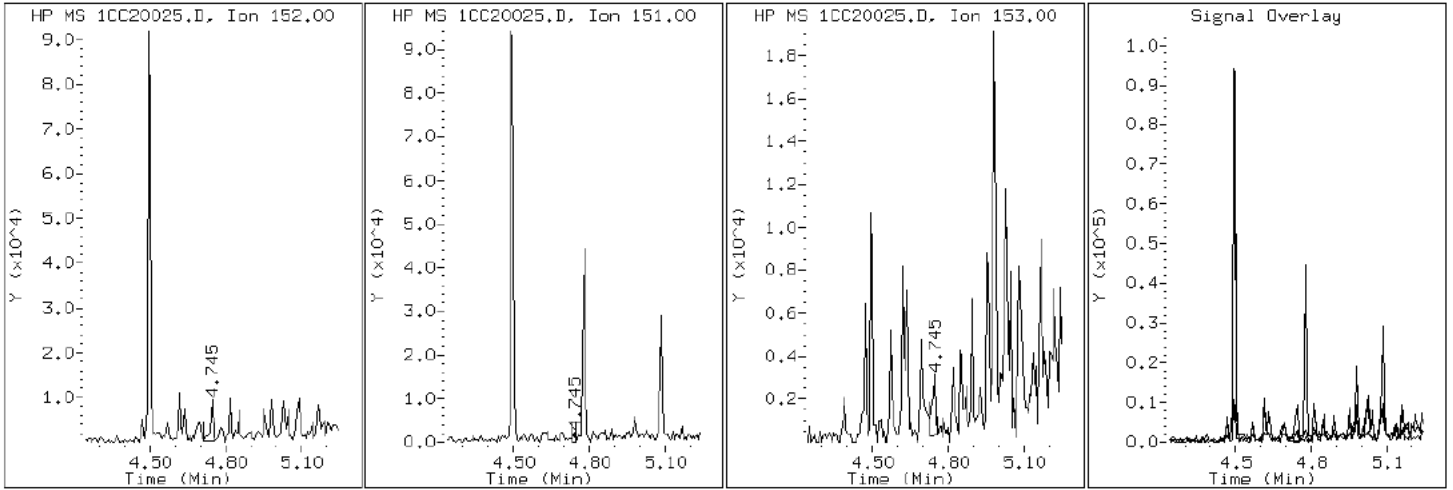
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

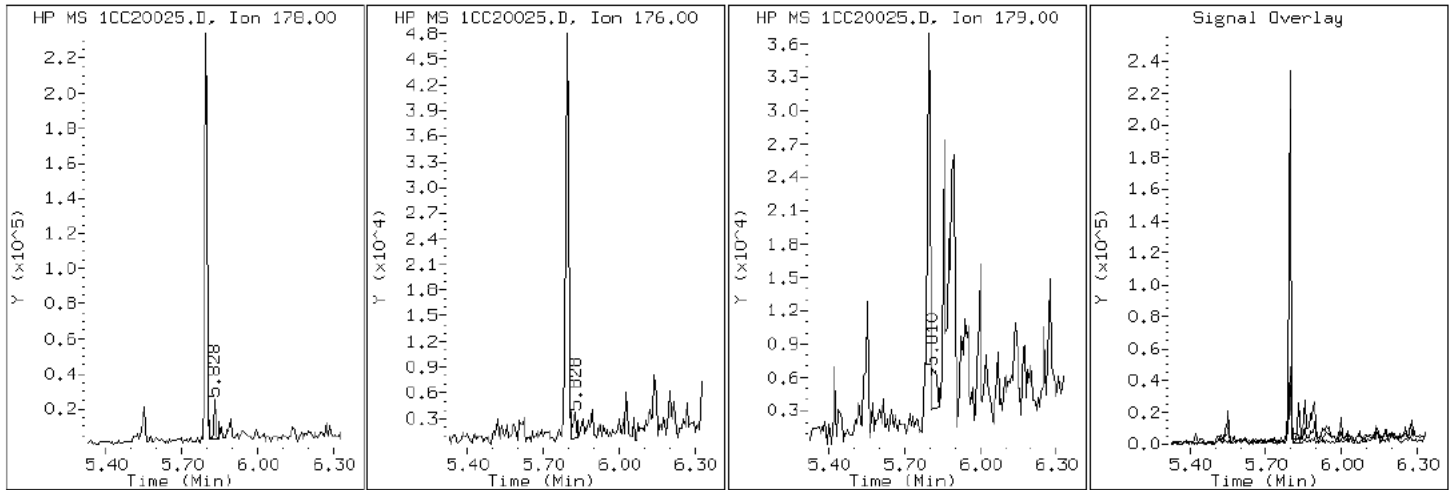
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

12 Anthracene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

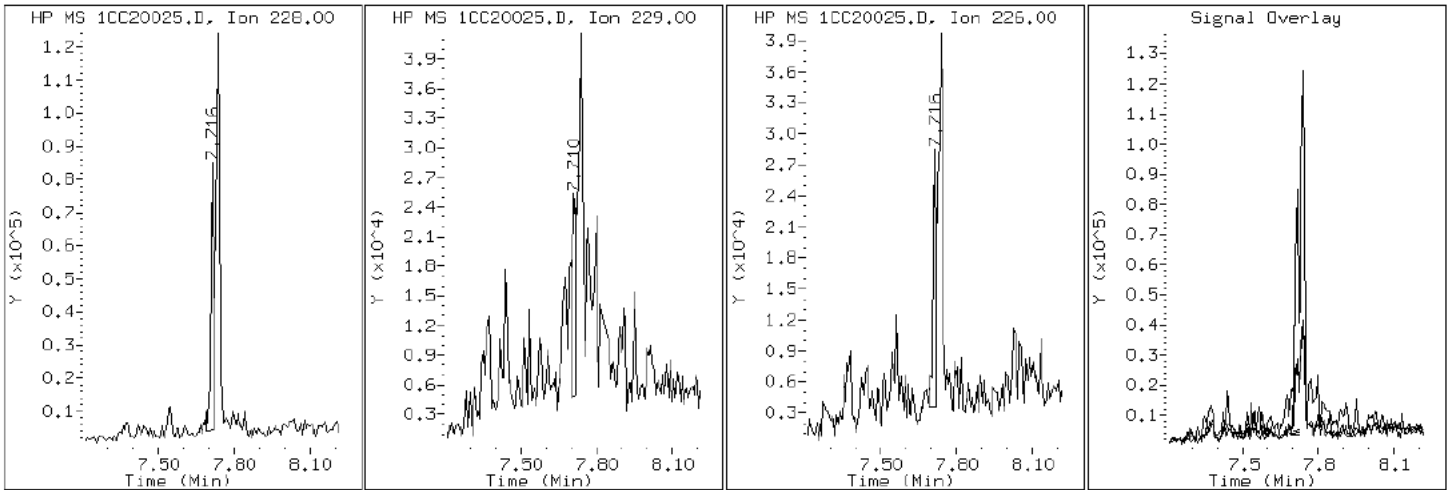
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

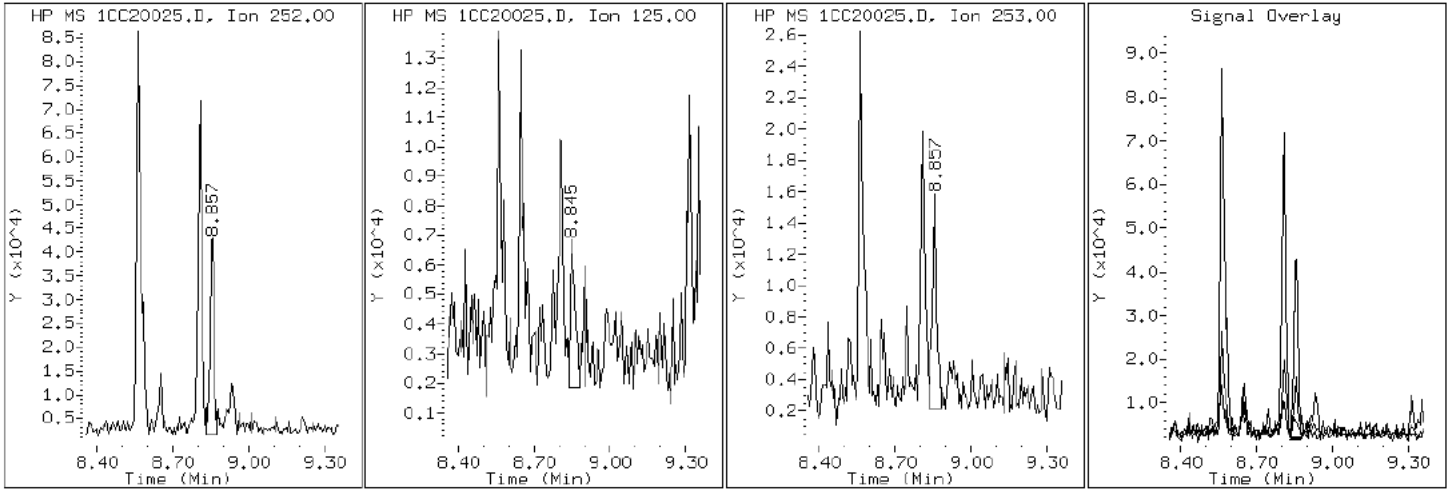
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

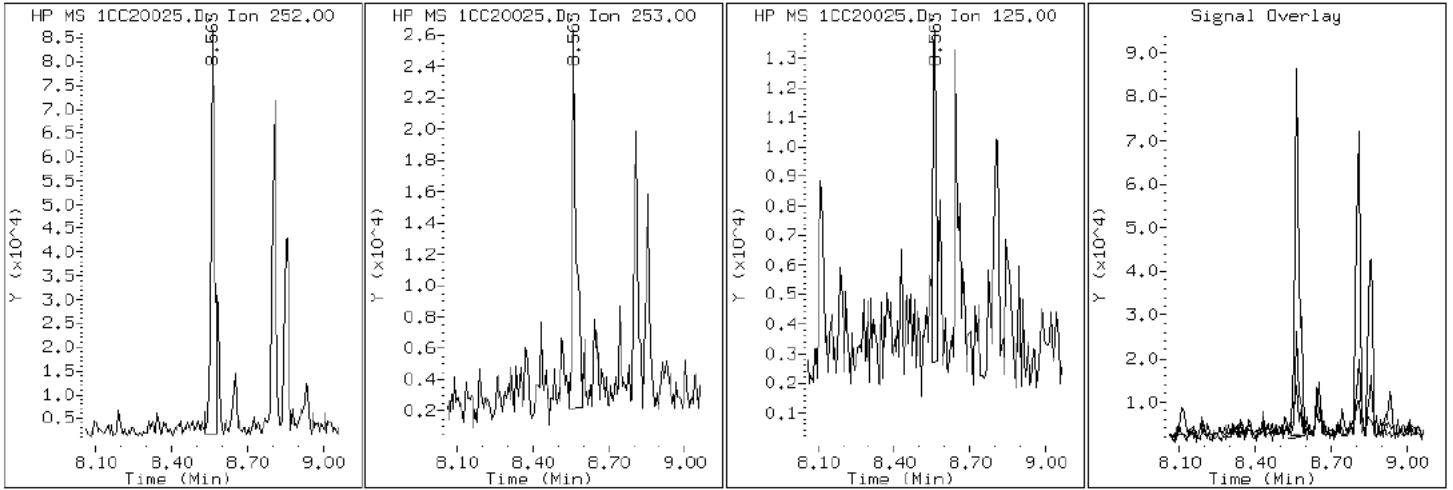
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

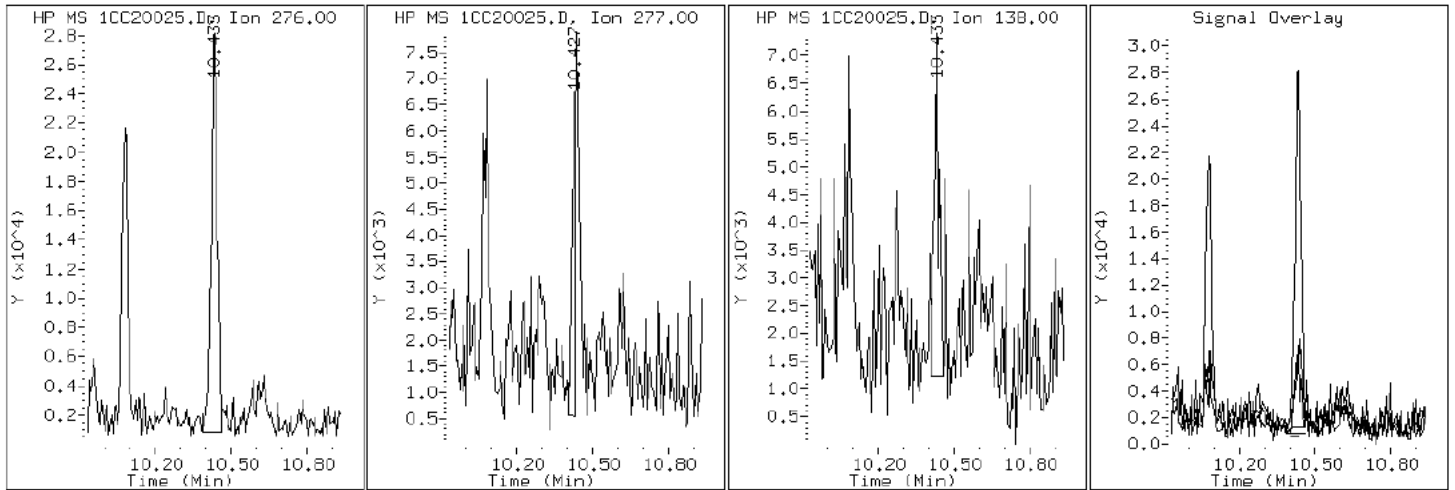
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

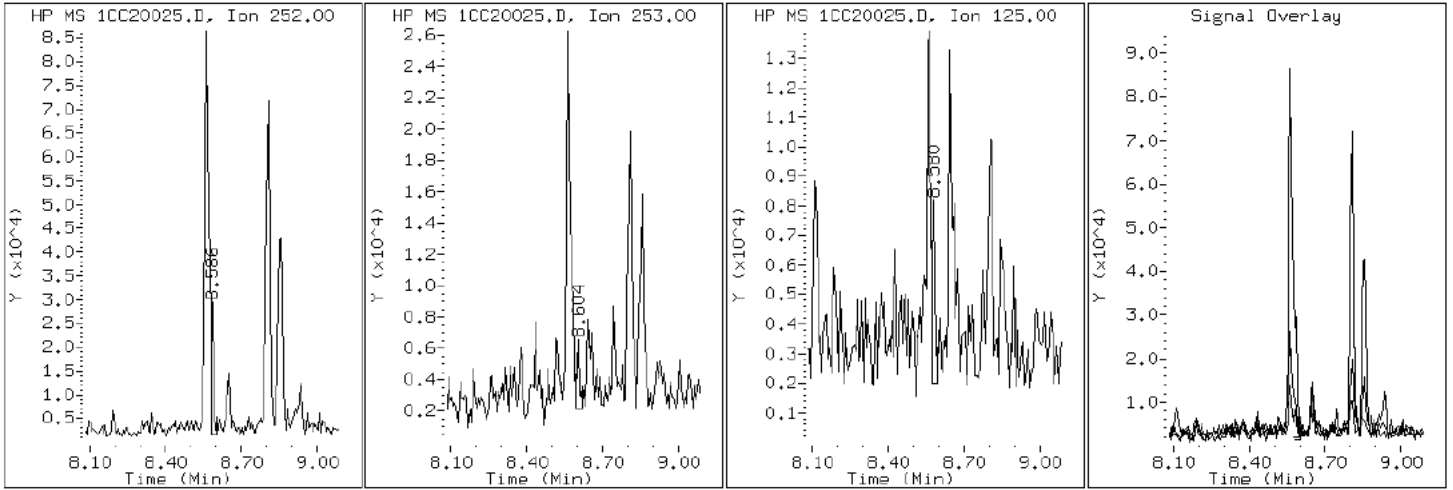
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

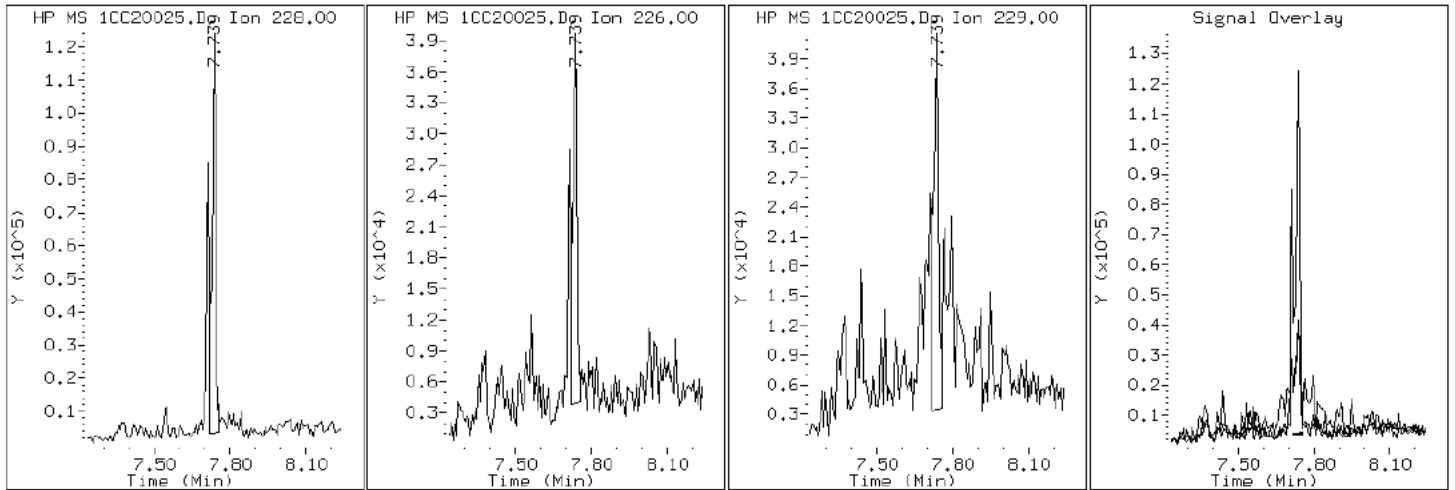
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

19 Chrysene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

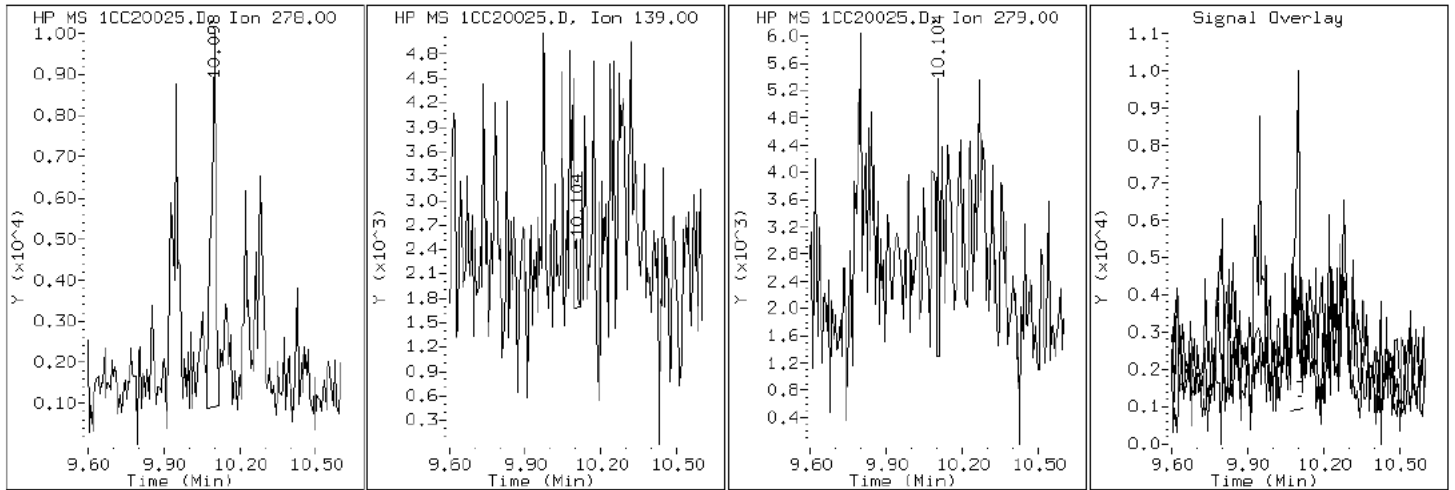
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

25 Dibenzo (a,h)anthracene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

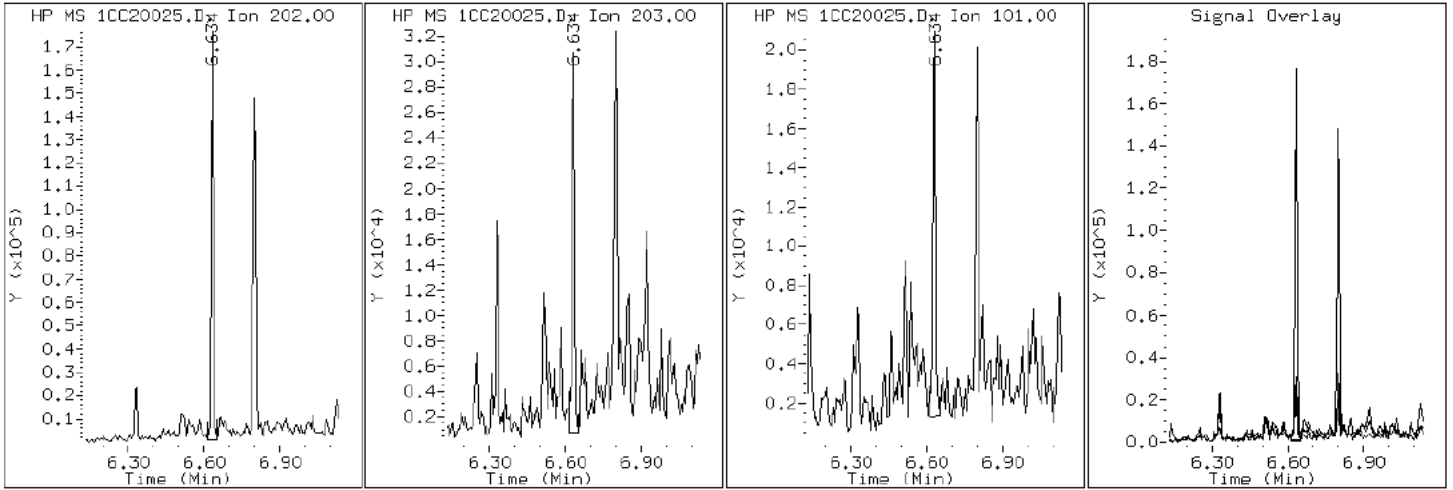
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

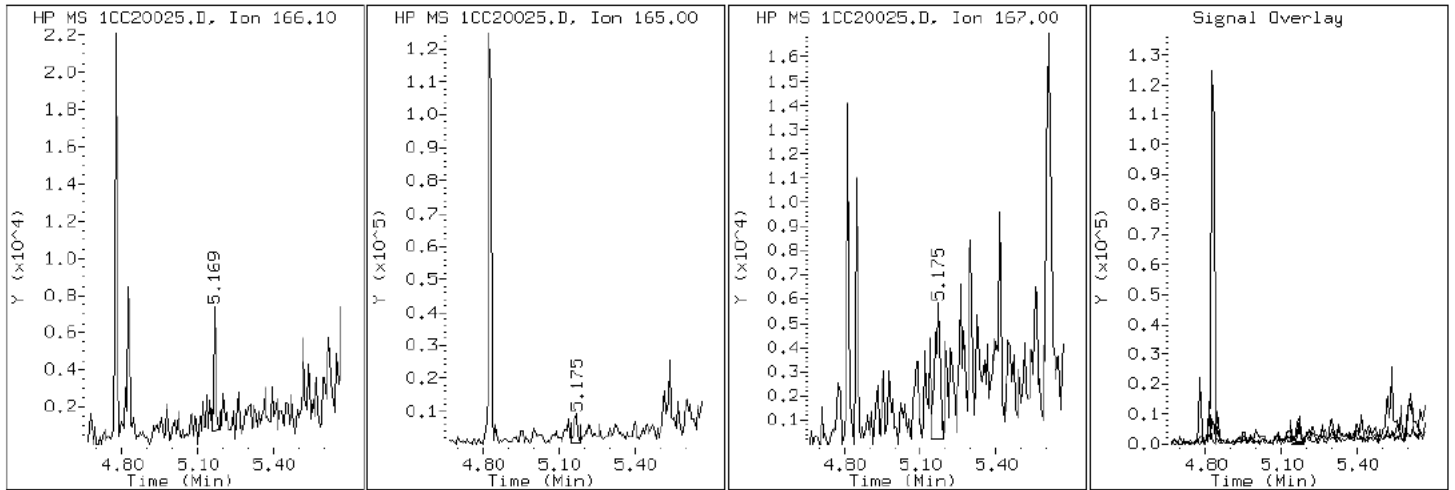
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

9 Fluorene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

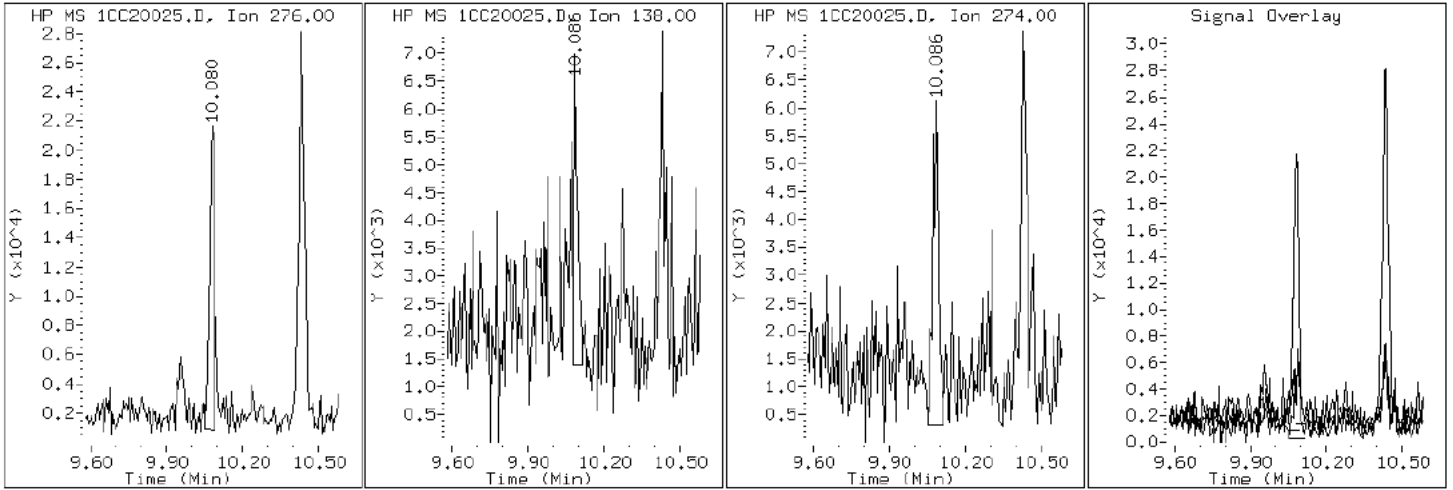
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

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



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

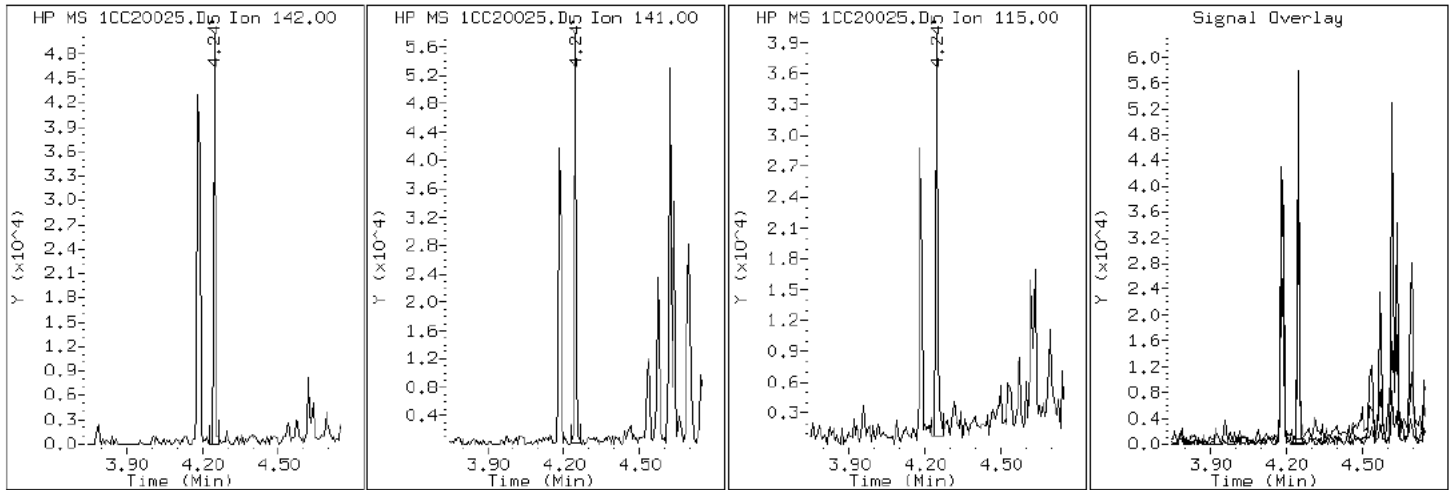
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

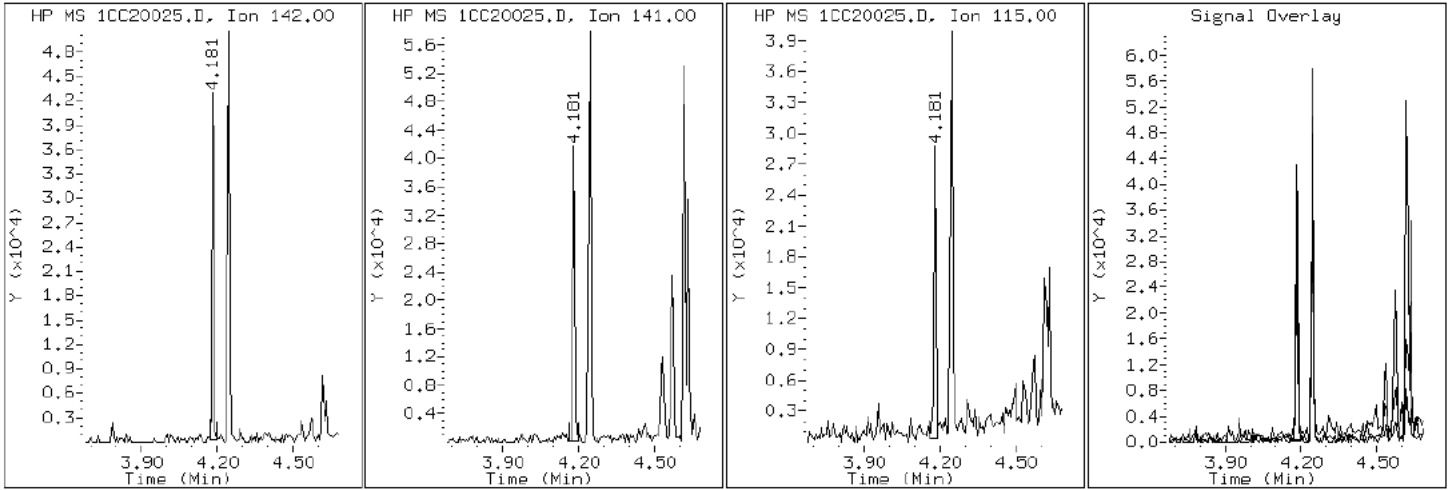
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

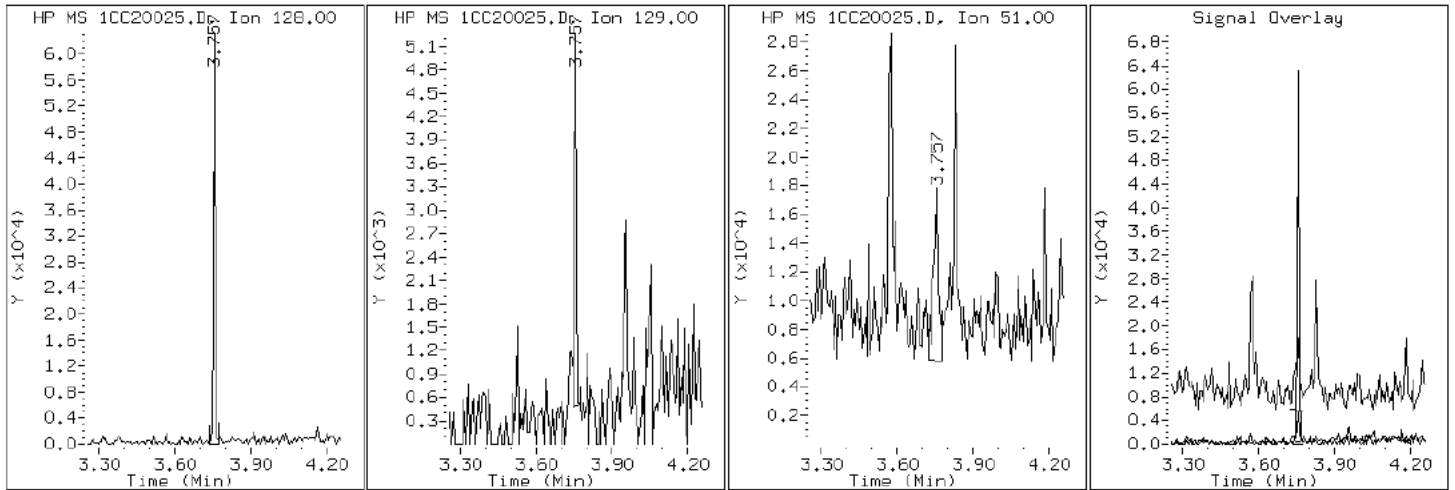
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

2 Naphthalene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

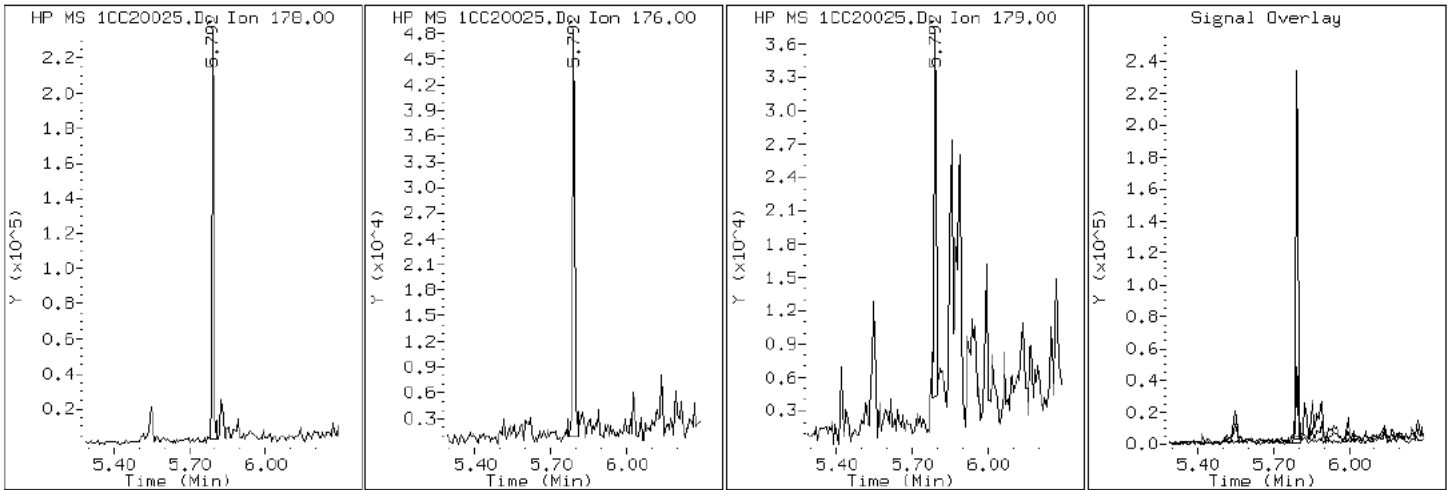
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20025.D

Date: 20-MAR-2013 17:22

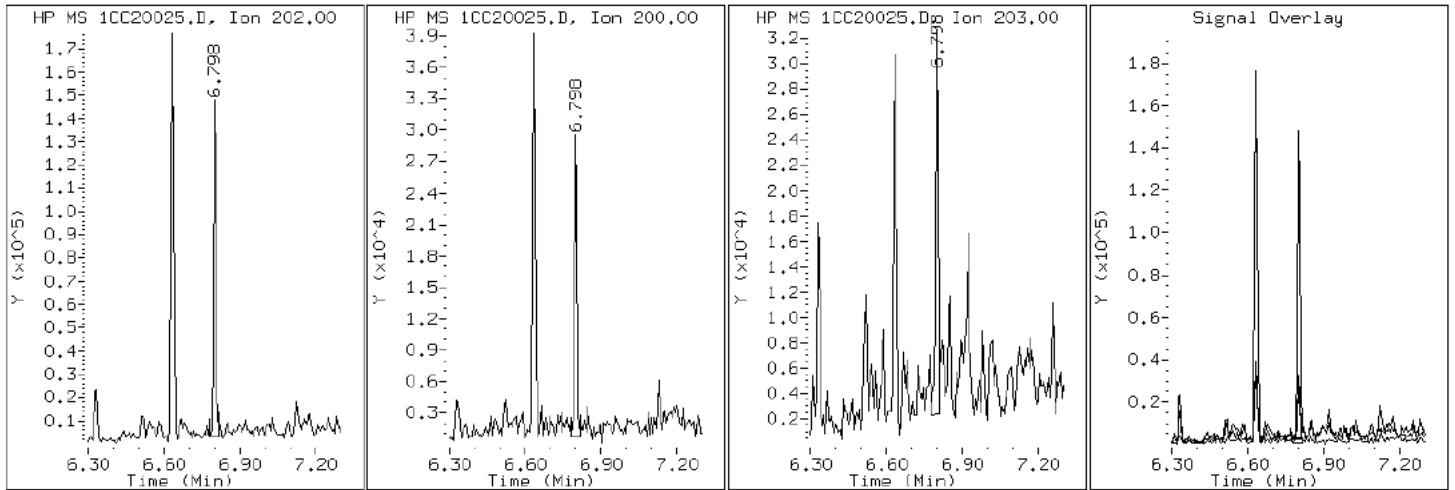
Client ID: CV0067A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-18-a

Operator: SCC

16 Pyrene

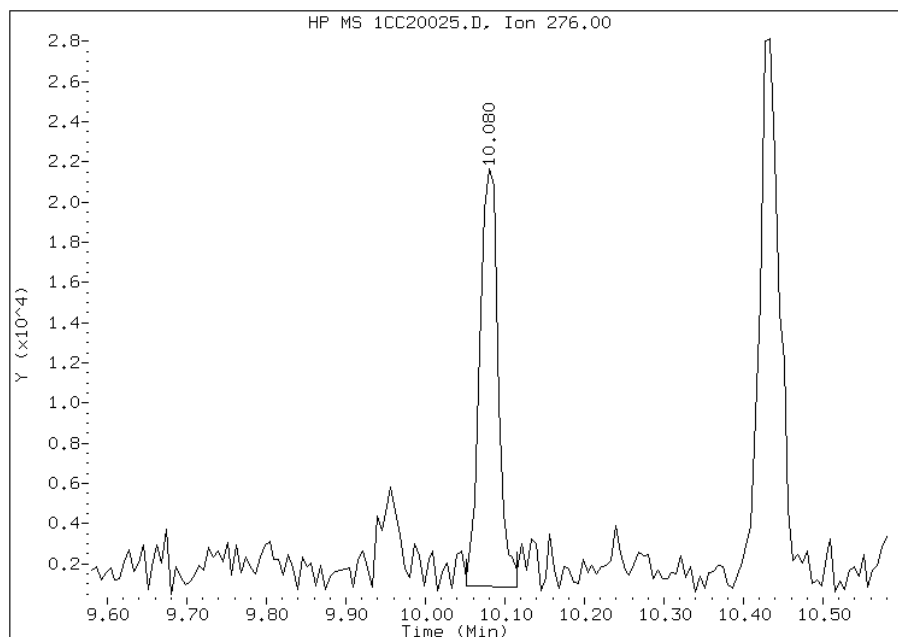


Manual Integration Report

Data File: 1CC20025.D
Inj. Date and Time: 20-MAR-2013 17:22
Instrument ID: BSMC5973.i
Client ID: CV0067A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

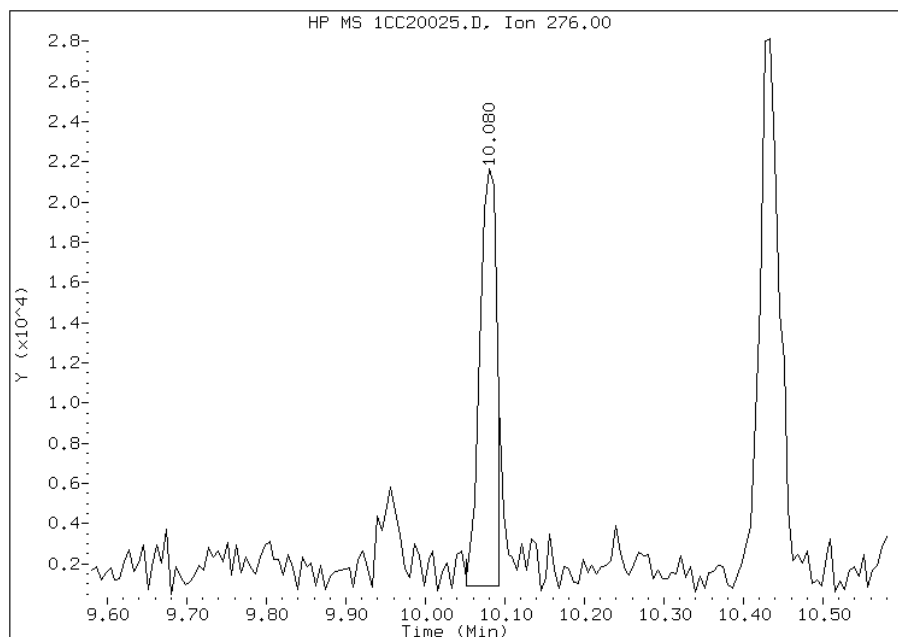
Processing Integration Results

RT: 10.08
Response: 33357
Amount: 1
Conc: 86



Manual Integration Results

RT: 10.08
Response: 30675
Amount: 1
Conc: 79



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0067B-CS Lab Sample ID: 680-88176-19
 Matrix: Solid Lab File ID: 1CC20026.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 14:40
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.44(g) Date Analyzed: 03/20/2013 17:40
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 24.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	57	J	130	26
208-96-8	Acenaphthylene	21	J	52	6.4
120-12-7	Anthracene	74		11	5.4
56-55-3	Benzo[a]anthracene	280		10	5.0
50-32-8	Benzo[a]pyrene	220		13	6.7
205-99-2	Benzo[b]fluoranthene	410		16	7.9
191-24-2	Benzo[g,h,i]perylene	180		26	5.7
207-08-9	Benzo[k]fluoranthene	140		10	4.6
218-01-9	Chrysene	380		12	5.8
53-70-3	Dibenz(a,h)anthracene	70		26	5.3
206-44-0	Fluoranthene	490		26	5.2
86-73-7	Fluorene	41		26	5.3
193-39-5	Indeno[1,2,3-cd]pyrene	120		26	9.2
90-12-0	1-Methylnaphthalene	180		52	5.7
91-57-6	2-Methylnaphthalene	240		52	9.2
91-20-3	Naphthalene	210		52	5.7
85-01-8	Phenanthrene	470		10	5.0
129-00-0	Pyrene	460		26	4.8

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20026.D
 Lab Smp Id: 680-88176-A-19-A Client Smp ID: CV0067B-CS
 Inj Date : 20-MAR-2013 17:40
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-19-a
 Misc Info : 680-88176-A-19-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 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	15.440	Weight Extracted
M	24.641	% 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		3.745	3.745	(1.000)	967532	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	761102	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1379764	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	126805	6.08700	523.1416	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1465609	40.0000		
* 23 Perylene-d12	264		8.915	8.909	(1.000)	1414361	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	61440	2.43921	209.6352	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	46607	2.77392	238.4019	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	31824	2.07967	178.7348	
5 Acenaphthylene	152		4.745	4.745	(0.983)	7657	0.24953	21.4459	
7 Acenaphthene	154		4.851	4.851	(1.005)	12563	0.65869	56.6107	
9 Fluorene	166		5.168	5.169	(1.071)	11431	0.47391	40.7294(Q)	
11 Phenanthrene	178		5.792	5.792	(1.002)	219298	5.49665	472.4039	
12 Anthracene	178		5.827	5.827	(1.008)	33436	0.85692	73.6473	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.939	5.933	(1.027)	23203	0.66897	57.4935
15 Fluoranthene	202	6.633	6.633	(1.148)	247153	5.65675	486.1638
16 Pyrene	202	6.798	6.798	(0.880)	208781	5.30088	455.5784
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	140138	3.31293	284.7265
19 Chrysene	228	7.739	7.739	(1.002)	188967	4.46392	383.6471
20 Benzo(b)fluoranthene	252	8.568	8.562	(0.961)	176533	4.77600	410.4687(M)
21 Benzo(k)fluoranthene	252	8.586	8.586	(0.963)	61414	1.61966	139.2002(QM)
22 Benzo(a)pyrene	252	8.862	8.857	(0.994)	93429	2.60228	223.6506
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.080	(1.131)	47797	1.41519	121.6270(M)
25 Dibenzo(a,h)anthracene	278	10.092	10.098	(1.132)	27091	0.82004	70.4779
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.170)	75149	2.12701	182.8041

QC Flag Legend

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

Data File: 1CC20026.D

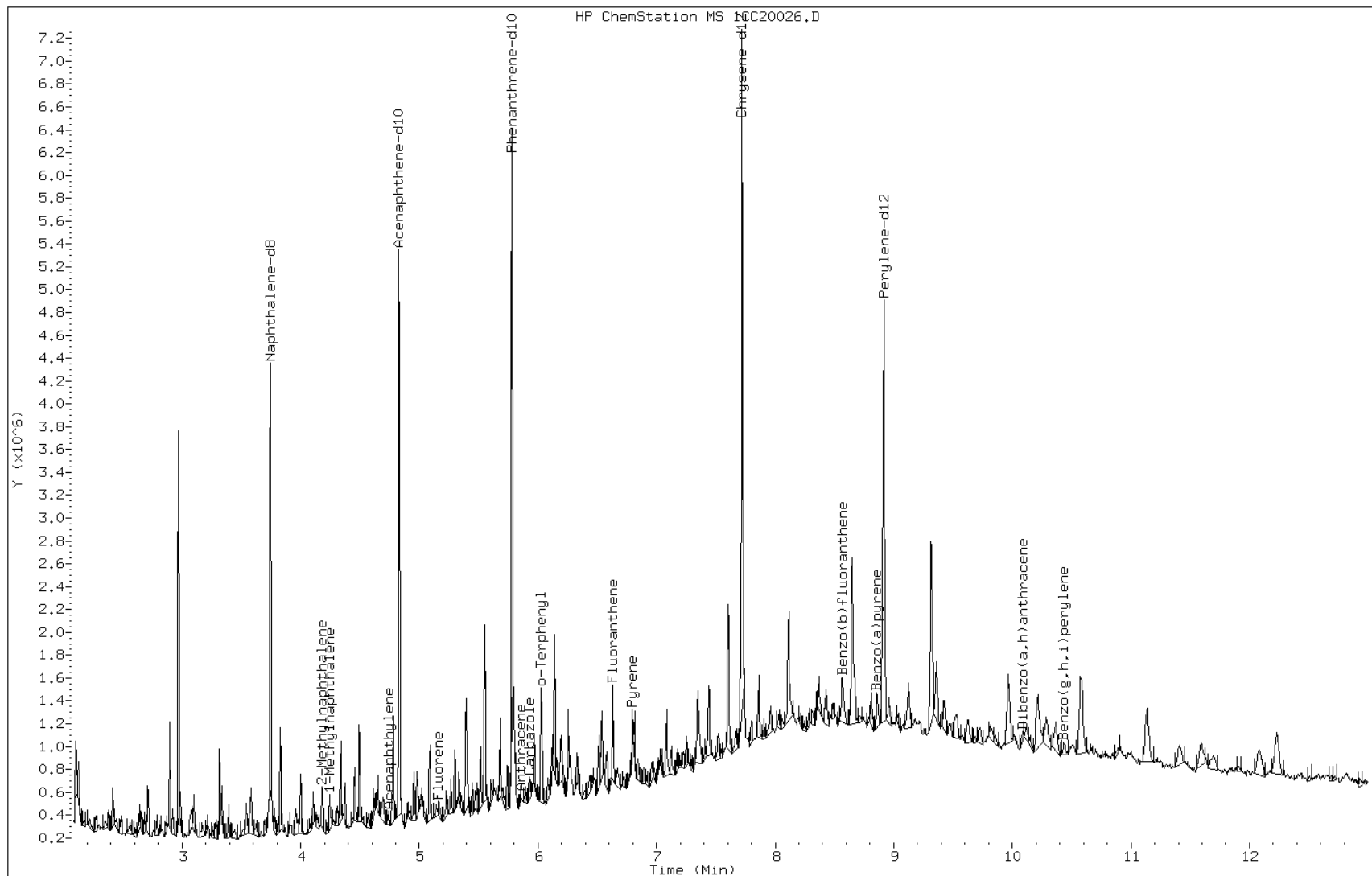
Date: 20-MAR-2013 17:40

Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

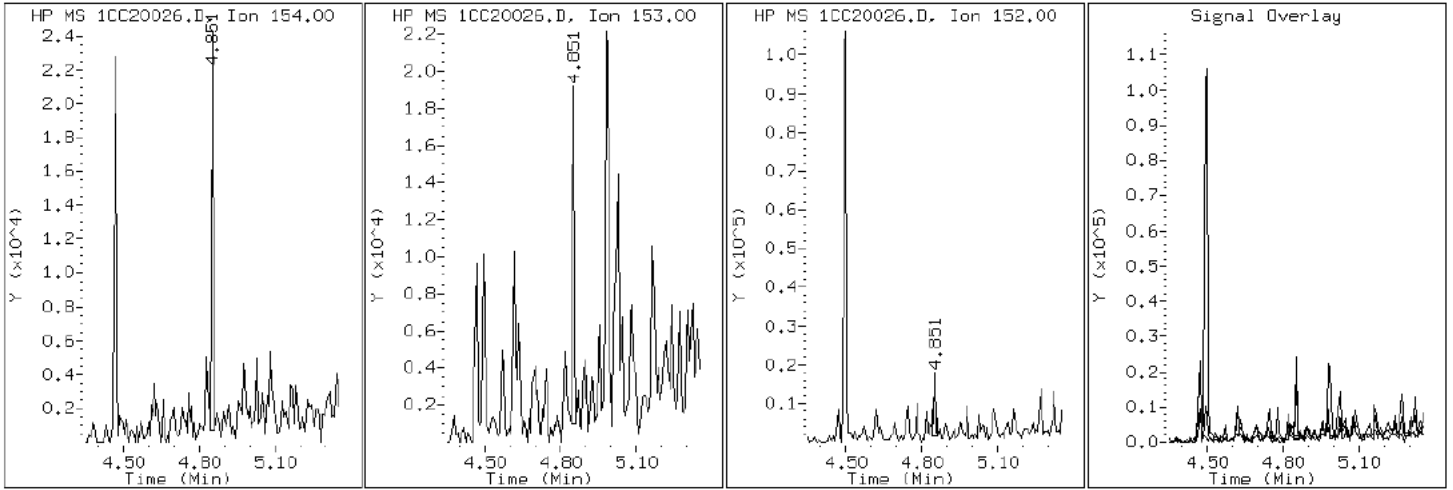
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

7 Acenaphthene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

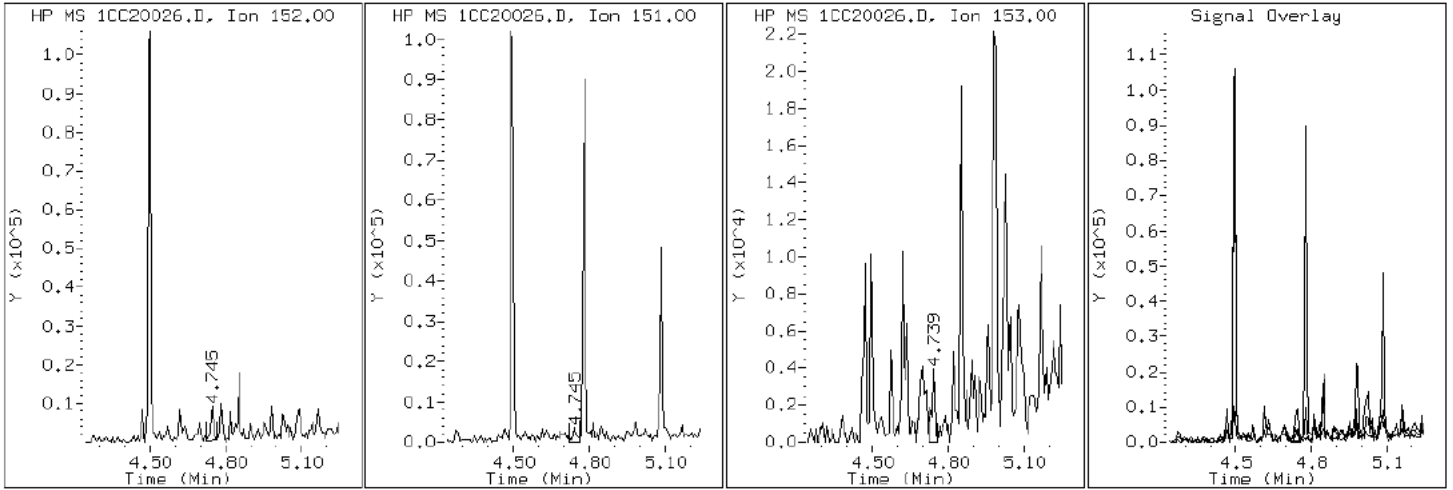
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

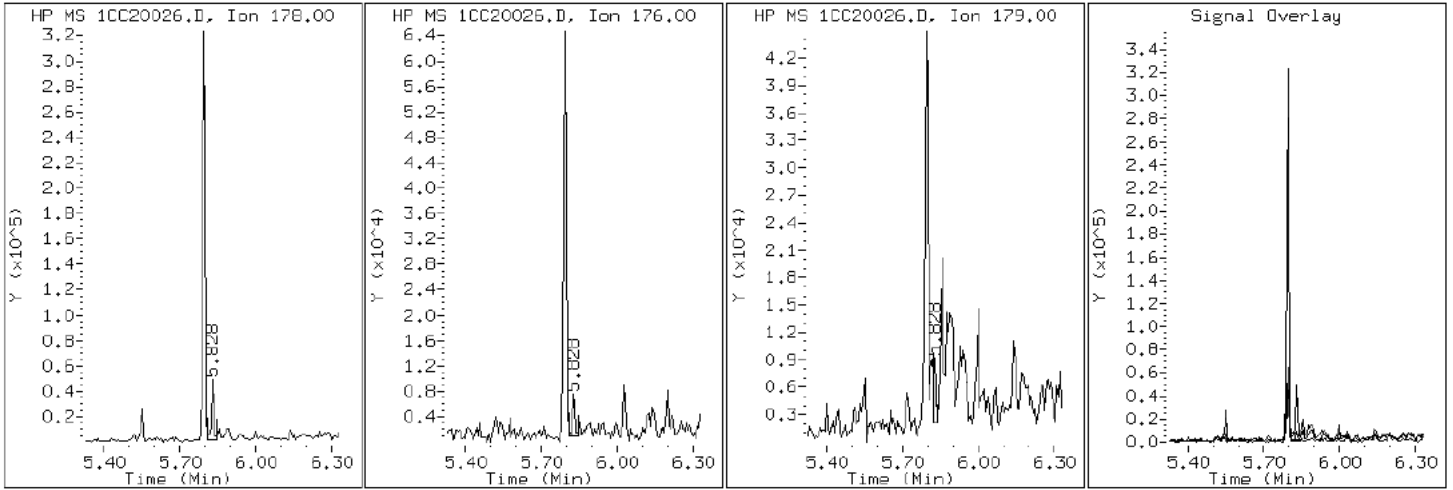
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

12 Anthracene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

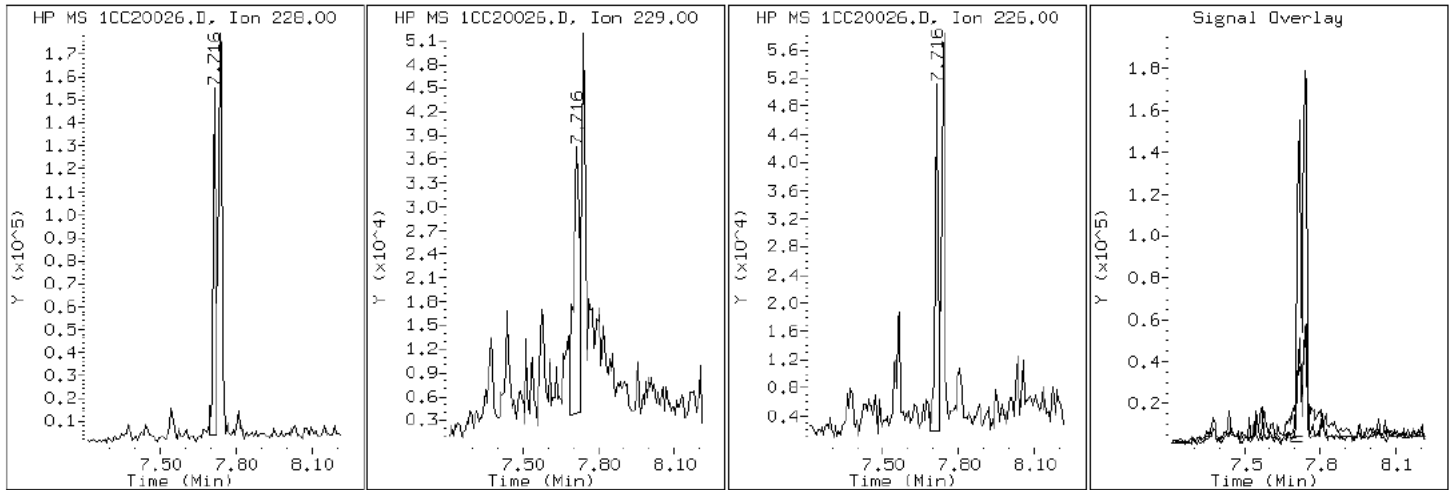
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

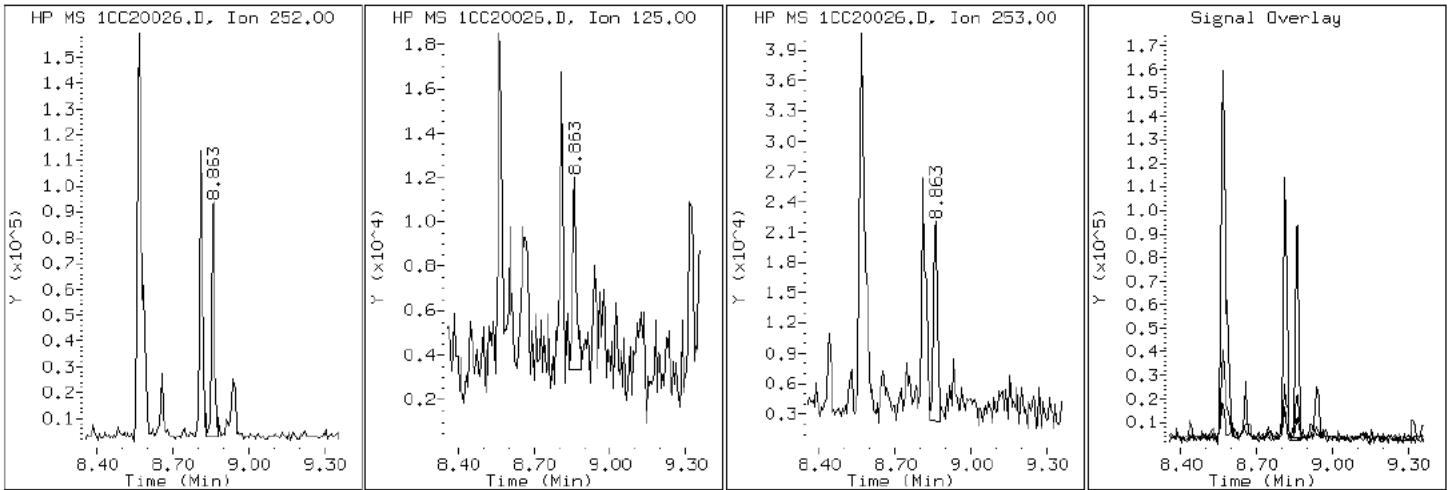
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

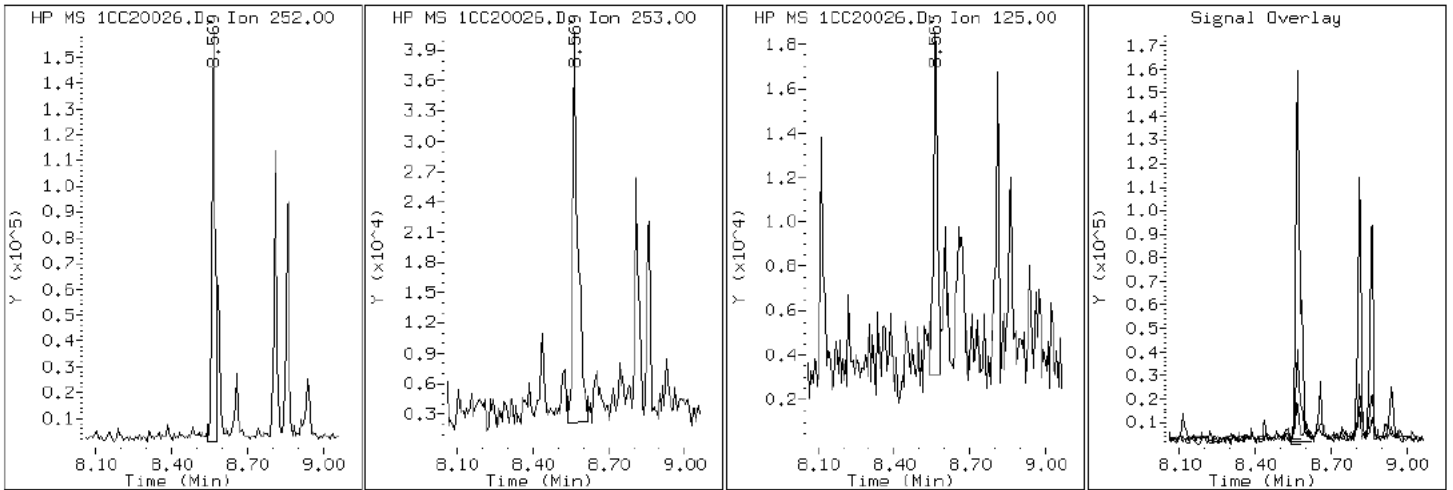
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

20 Benzo (b) fluoranthene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

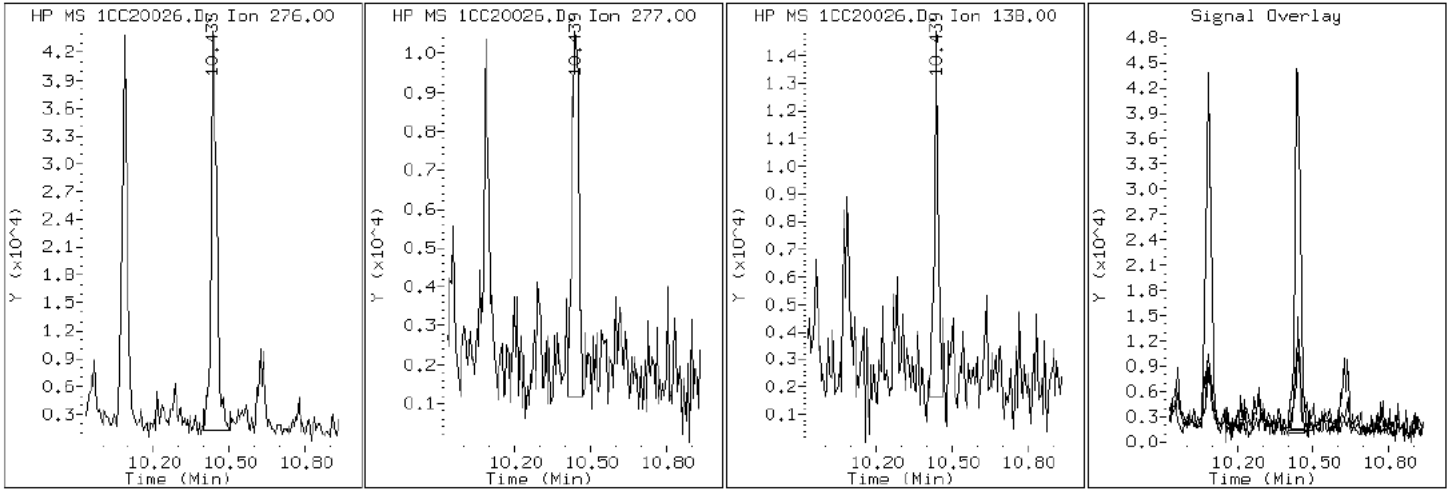
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

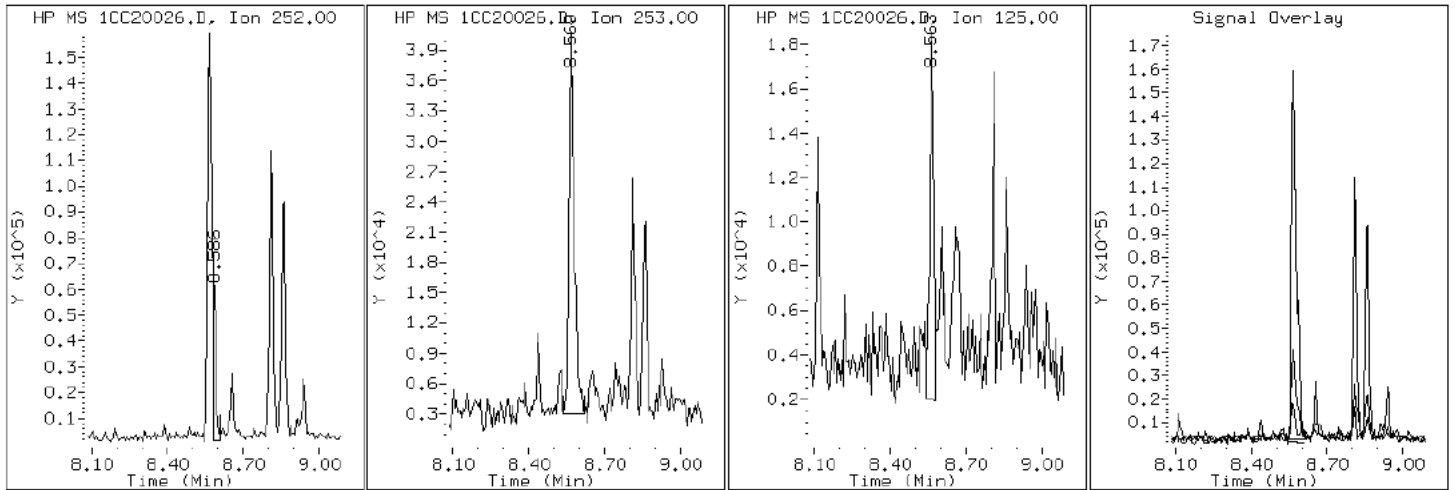
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

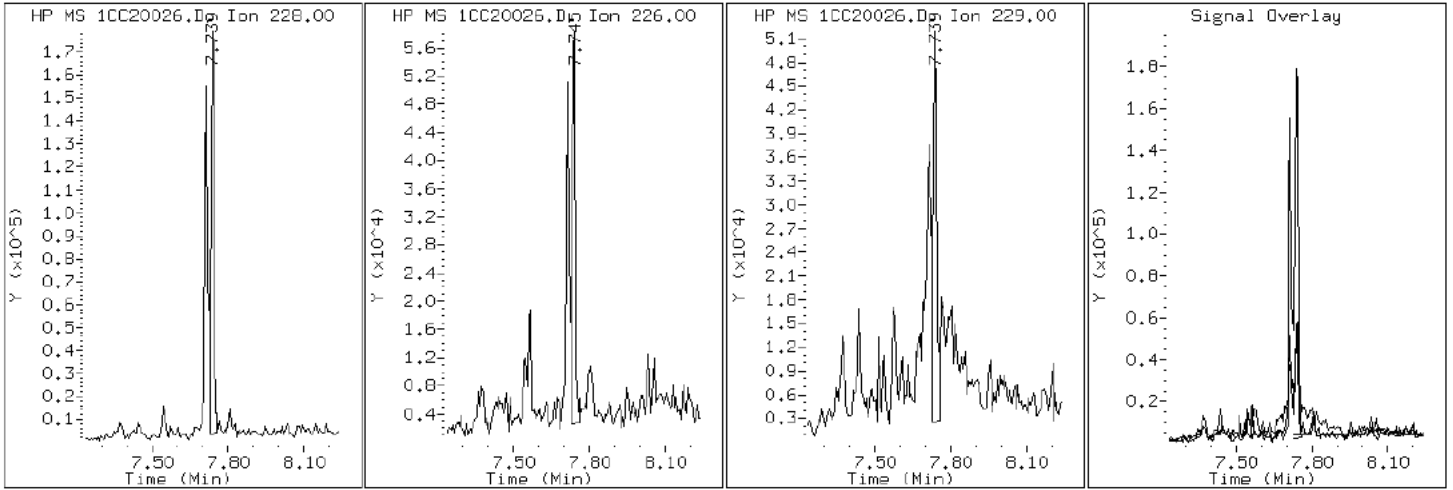
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

19 Chrysene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

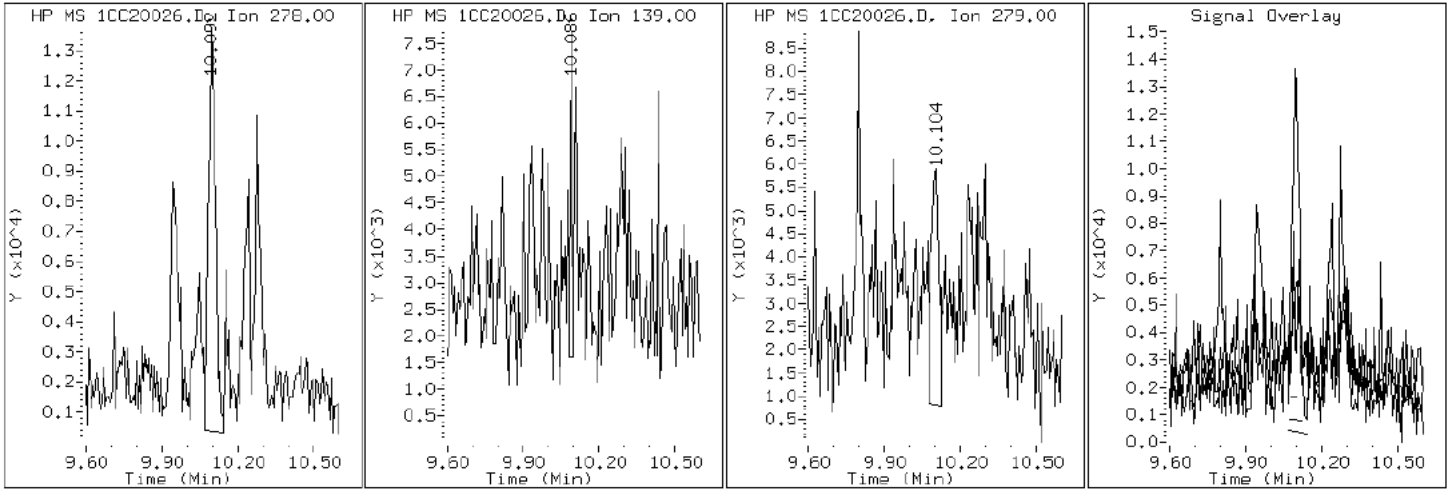
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

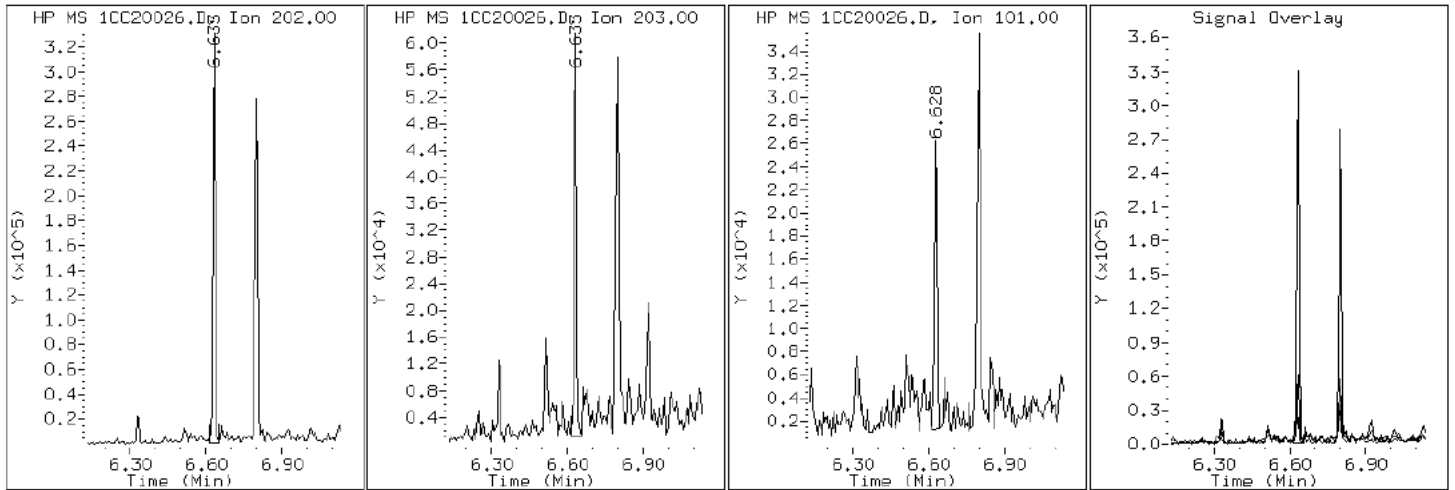
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

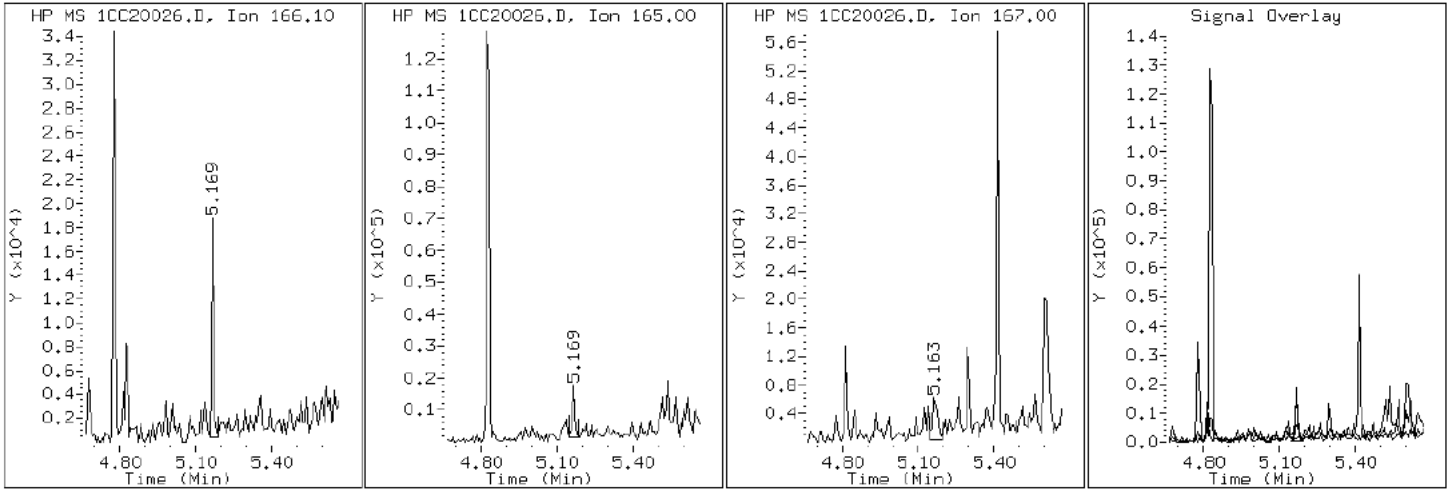
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

9 Fluorene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

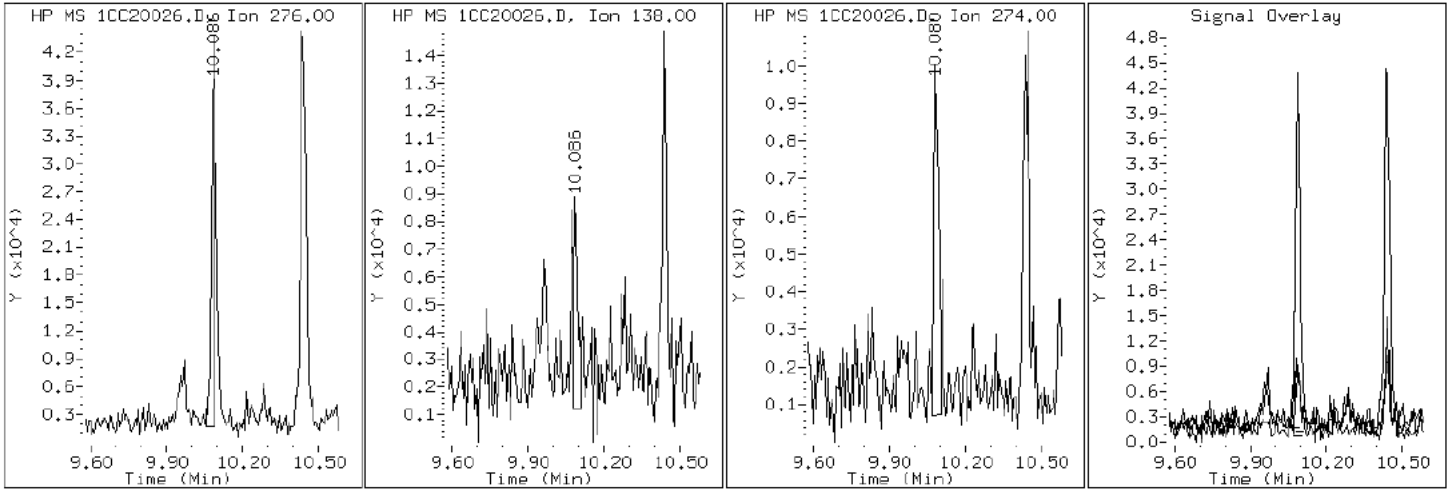
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

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



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

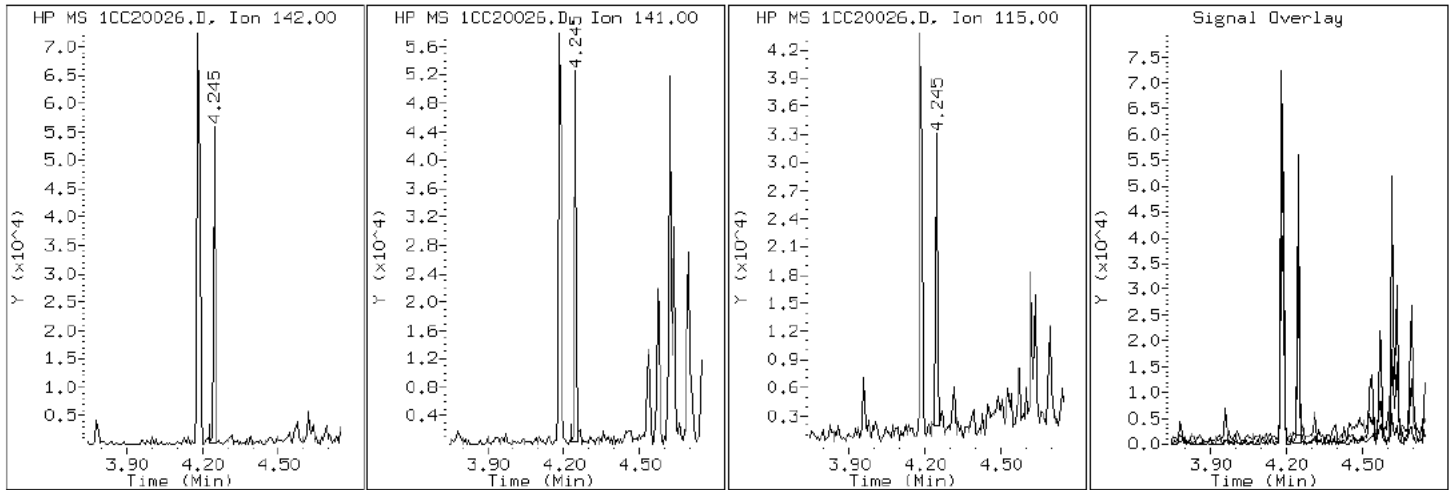
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

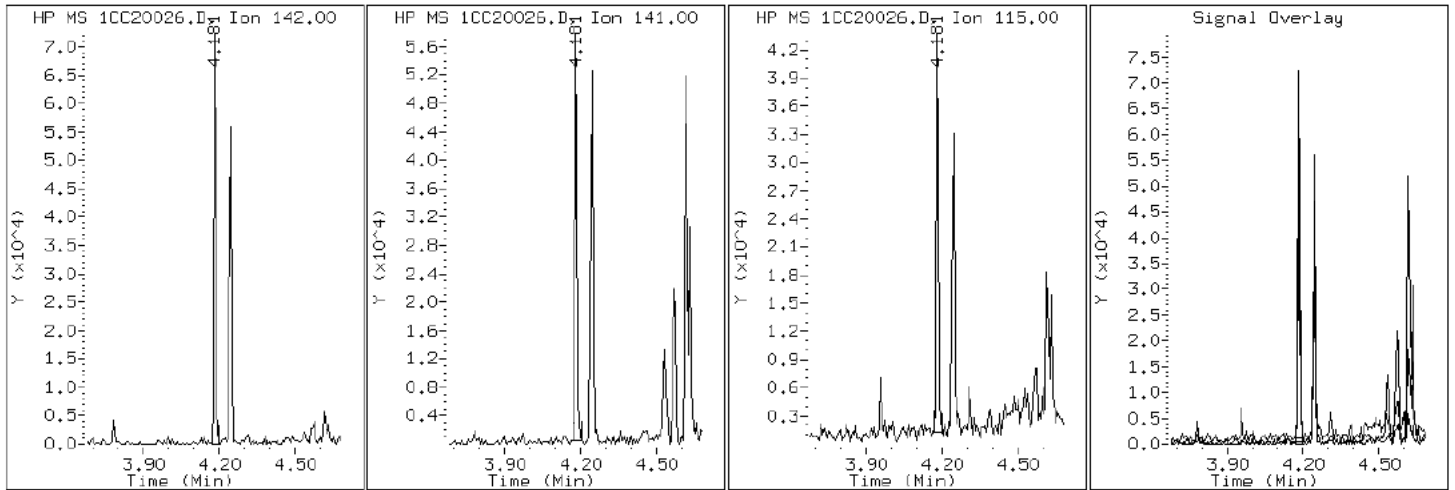
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

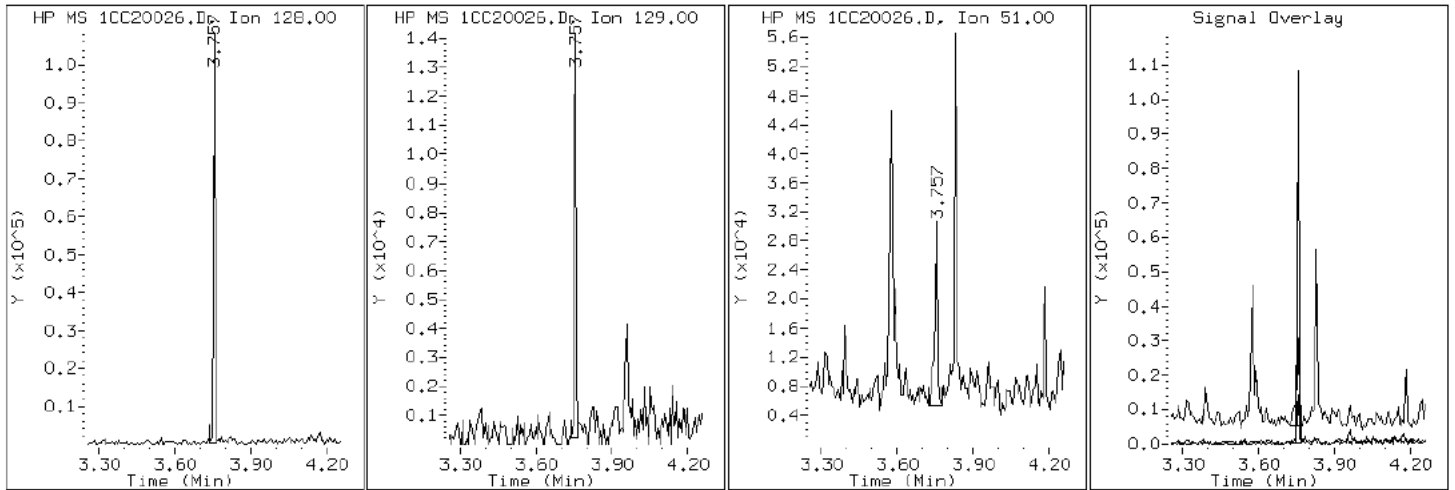
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

2 Naphthalene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

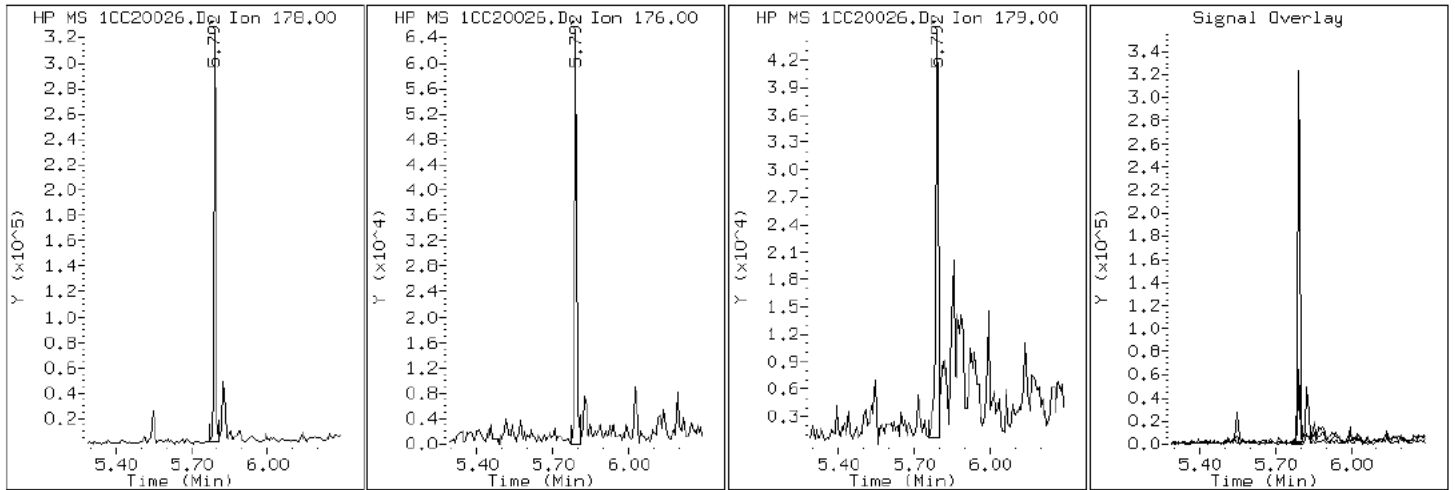
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20026.D

Date: 20-MAR-2013 17:40

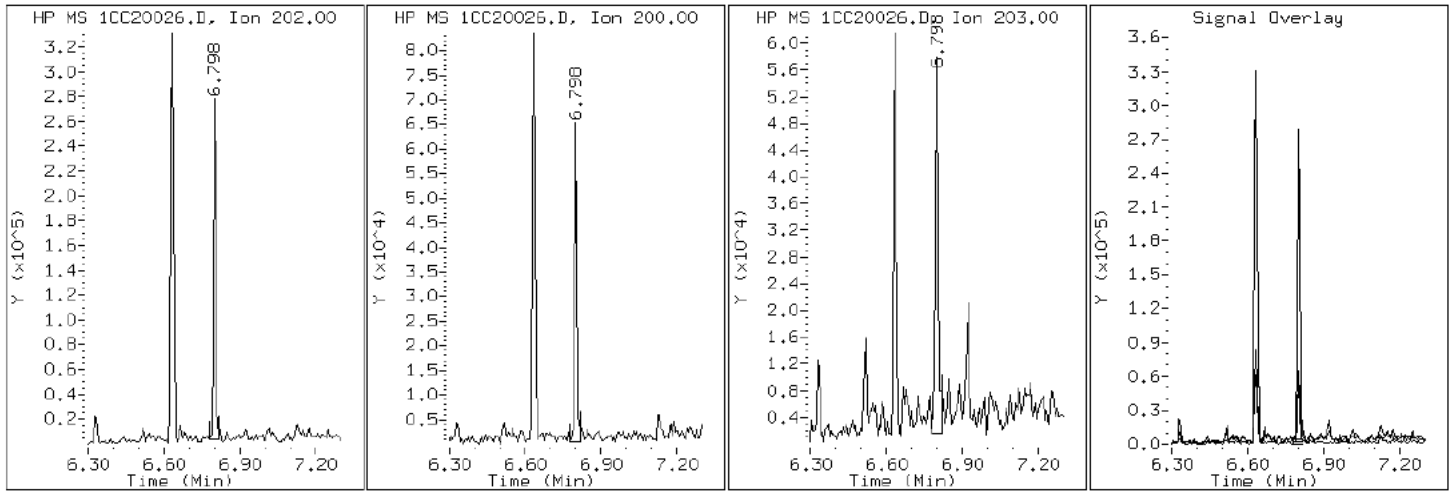
Client ID: CV0067B-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-19-a

Operator: SCC

16 Pyrene

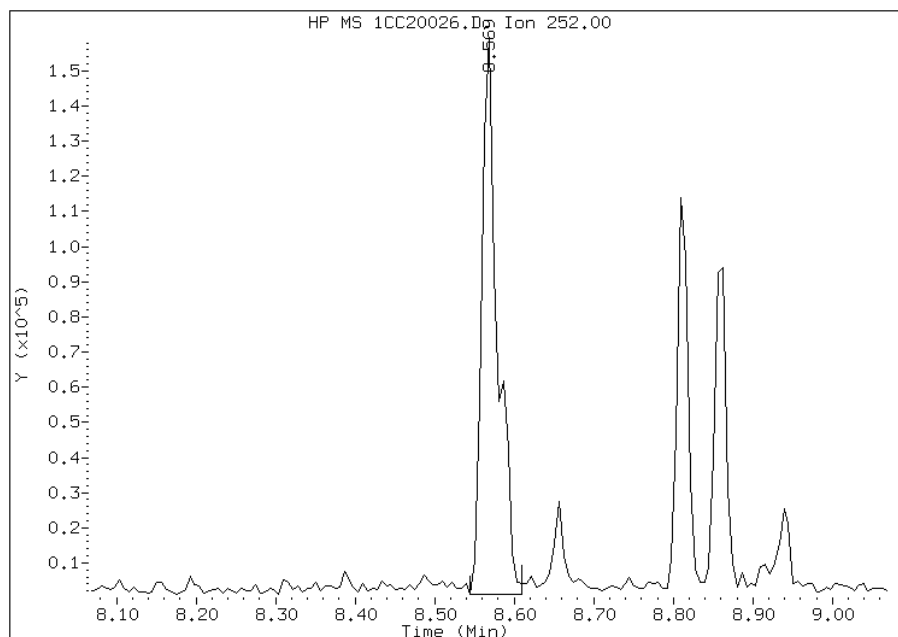


Manual Integration Report

Data File: 1CC20026.D
Inj. Date and Time: 20-MAR-2013 17:40
Instrument ID: BSMC5973.i
Client ID: CV0067B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

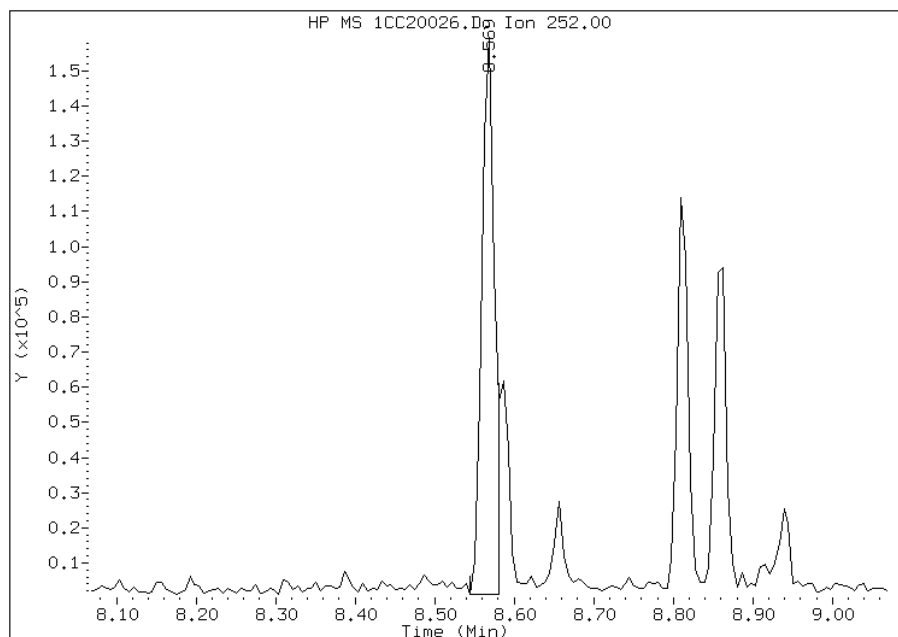
Processing Integration Results

RT: 8.57
Response: 218886
Amount: 6
Conc: 509



Manual Integration Results

RT: 8.57
Response: 176533
Amount: 5
Conc: 410



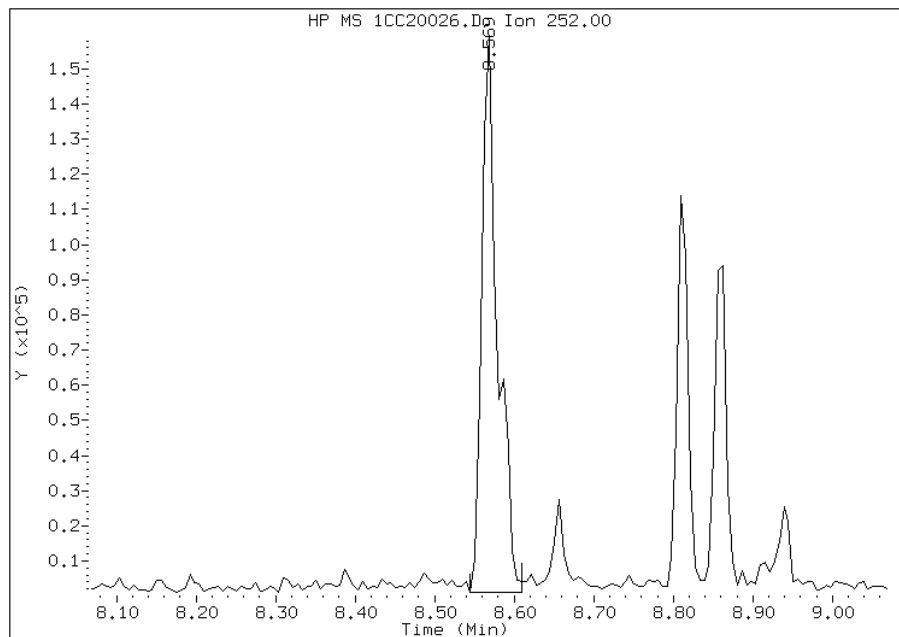
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:14
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CC20026.D
Inj. Date and Time: 20-MAR-2013 17:40
Instrument ID: BSMC5973.i
Client ID: CV0067B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

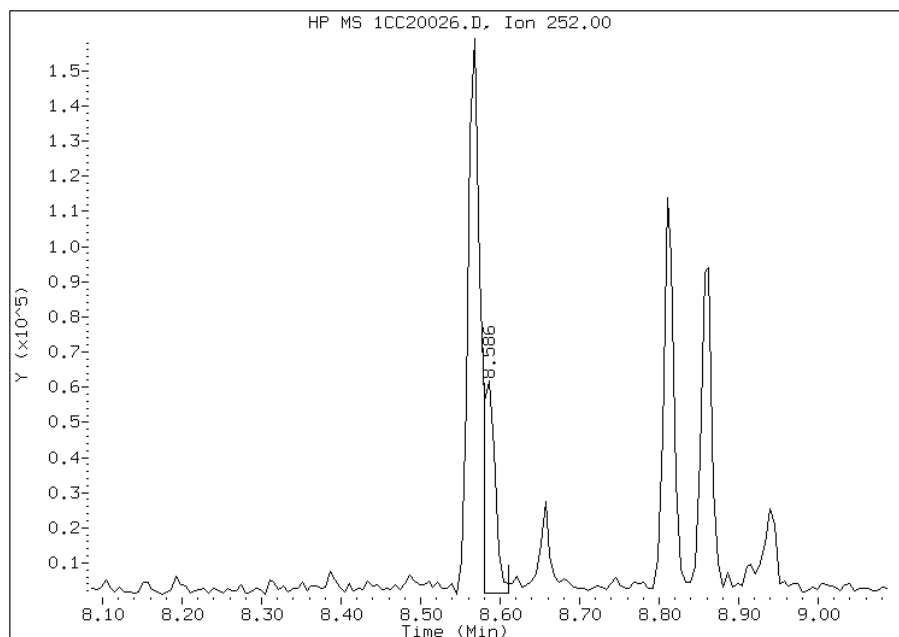
Processing Integration Results

RT: 8.57
Response: 218886
Amount: 6
Conc: 496



Manual Integration Results

RT: 8.59
Response: 61414
Amount: 2
Conc: 139



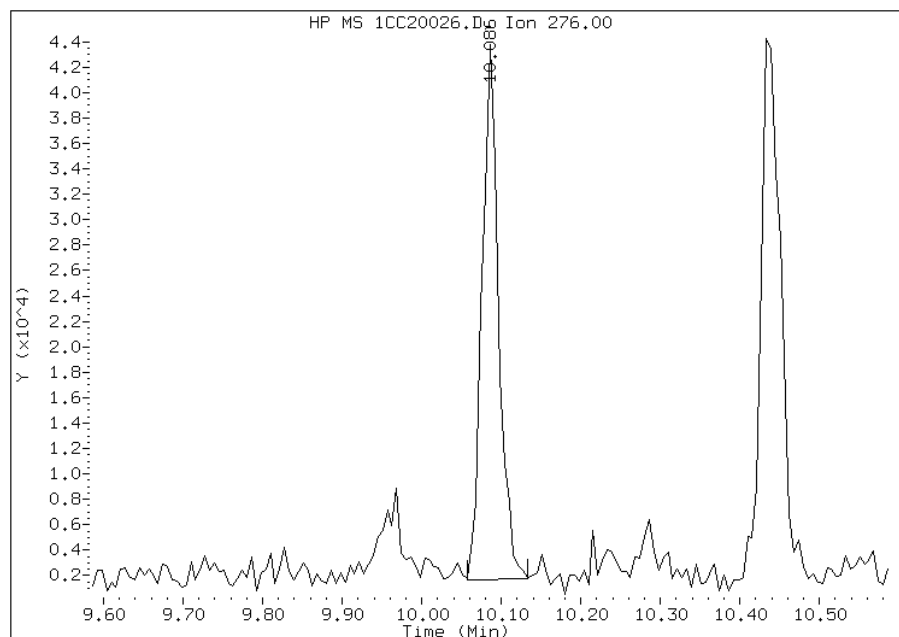
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20026.D
Inj. Date and Time: 20-MAR-2013 17:40
Instrument ID: BSMC5973.i
Client ID: CV0067B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

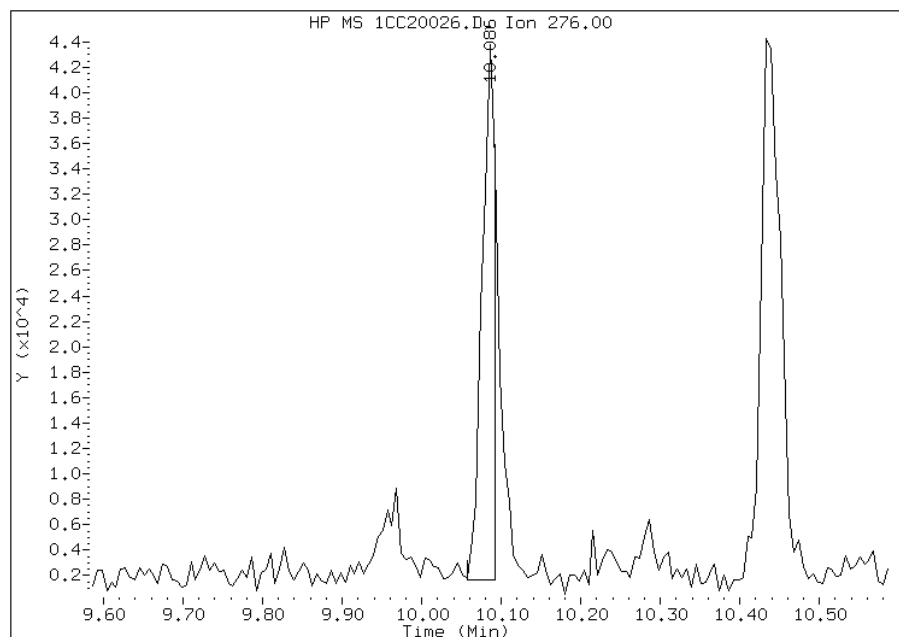
Processing Integration Results

RT: 10.09
Response: 60136
Amount: 2
Conc: 153



Manual Integration Results

RT: 10.09
Response: 47797
Amount: 1
Conc: 122



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0590A-CS Lab Sample ID: 680-88176-20
 Matrix: Solid Lab File ID: 1CC20027.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 15:20
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 14.91(g) Date Analyzed: 03/20/2013 17:59
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	31	J	120	24
208-96-8	Acenaphthylene	37	J	49	6.1
120-12-7	Anthracene	150		10	5.1
56-55-3	Benzo[a]anthracene	2200		9.8	4.8
50-32-8	Benzo[a]pyrene	3400		13	6.3
191-24-2	Benzo[g,h,i]perylene	3200		24	5.4
207-08-9	Benzo[k]fluoranthene	2700		9.8	4.4
218-01-9	Chrysene	2900		11	5.5
53-70-3	Dibenz(a,h)anthracene	1100		24	5.0
206-44-0	Fluoranthene	2200		24	4.9
86-73-7	Fluorene	58		24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	3100		24	8.7
90-12-0	1-Methylnaphthalene	170		49	5.4
91-57-6	2-Methylnaphthalene	190		49	8.7
91-20-3	Naphthalene	180		49	5.4
85-01-8	Phenanthrene	800		9.8	4.8
129-00-0	Pyrene	2100		24	4.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	49		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20027.D
 Lab Smp Id: 680-88176-A-20-A Client Smp ID: CV0590A-CS
 Inj Date : 20-MAR-2013 17:59
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-a-20-a
 Misc Info : 680-88176-A-20-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 27
 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	14.910	Weight Extracted
M	17.518	% 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		3.745	3.745	(1.000)	966415	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	760100	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1345710	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	99336	4.88908	397.5499	
* 18 Chrysene-d12	240		7.727	7.721	(1.000)	1561025	40.0000		
* 23 Perylene-d12	264		8.915	8.909	(1.000)	1448491	40.0000		
2 Naphthalene	128		3.757	3.757	(1.003)	55587	2.20939	179.6539	
3 2-Methylnaphthalene	142		4.180	4.180	(1.116)	39068	2.32791	189.2911	
4 1-Methylnaphthalene	142		4.245	4.245	(1.133)	31800	2.08050	169.1733	
5 Acenaphthylene	152		4.745	4.745	(0.983)	14011	0.45721	37.1771	
7 Acenaphthene	154		4.851	4.851	(1.005)	7315	0.38404	31.2277(Q)	
9 Fluorene	166		5.169	5.169	(1.071)	17206	0.71427	58.0798	
11 Phenanthrene	178		5.792	5.792	(1.002)	384274	9.87547	803.0120	
12 Anthracene	178		5.827	5.827	(1.008)	71266	1.87268	152.2745	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.939	5.933 (1.027)		36383	1.07550	87.4532
15 Fluoranthene	202	6.633	6.633 (1.148)		1137579	26.6954	2170.7039
16 Pyrene	202	6.804	6.798 (0.880)		1083665	25.8321	2100.5084
17 Benzo(a)anthracene	228	7.715	7.715 (0.998)		1214931	26.9660	2192.7081
19 Chrysene	228	7.745	7.739 (1.002)		1614087	35.7986	2910.9186
20 Benzo(b)fluoranthene	252	8.568	8.562 (0.961)		2916303	77.0399	6264.4095(AM)
21 Benzo(k)fluoranthene	252	8.580	8.586 (0.962)		1307579	33.6720	2738.0021(M)
22 Benzo(a)pyrene	252	8.862	8.857 (0.994)		1542156	41.9417	3410.4373
24 Indeno(1,2,3-cd)pyrene	276	10.092	10.080 (1.132)		1305542	37.7441	3069.1189(M)
25 Dibenzo(a,h)anthracene	278	10.104	10.098 (1.133)		474558	14.0264	1140.5409
26 Benzo(g,h,i)perylene	276	10.451	10.433 (1.172)		1435301	39.6675	3225.5164

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: 1CC20027.D

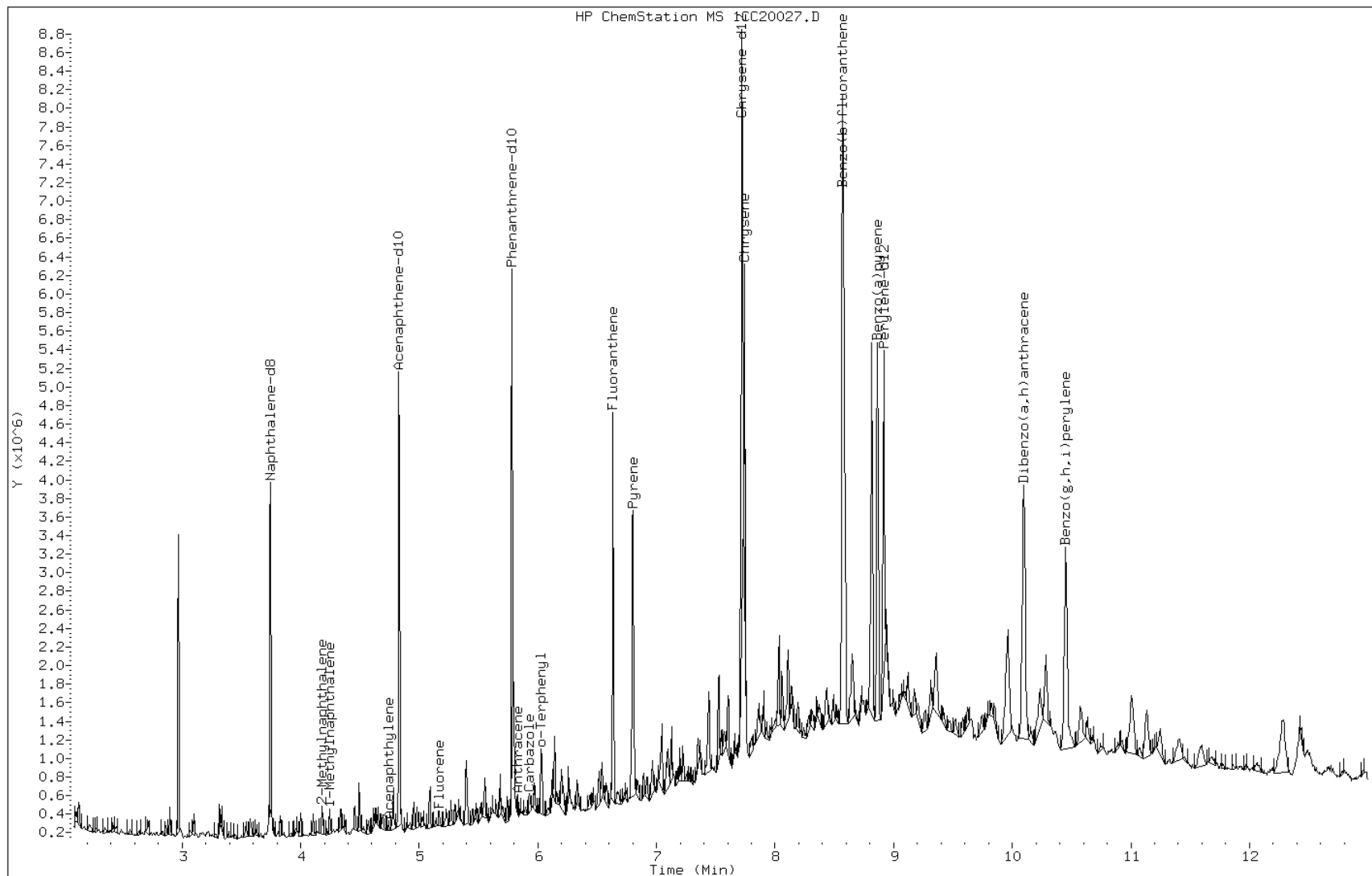
Date: 20-MAR-2013 17:59

Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

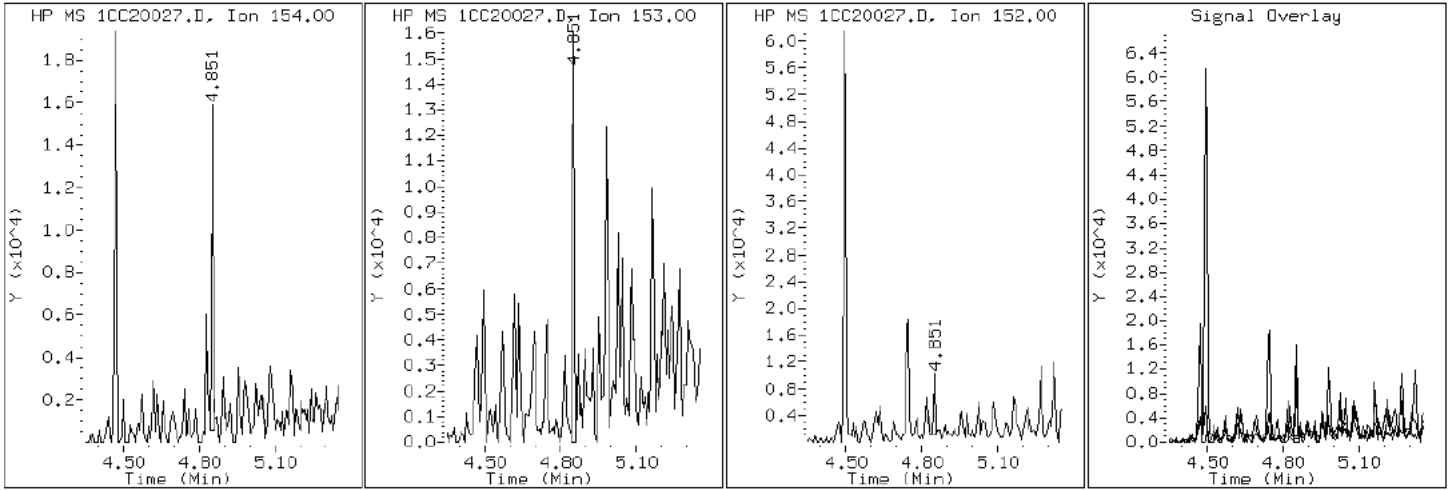
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

7 Acenaphthene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

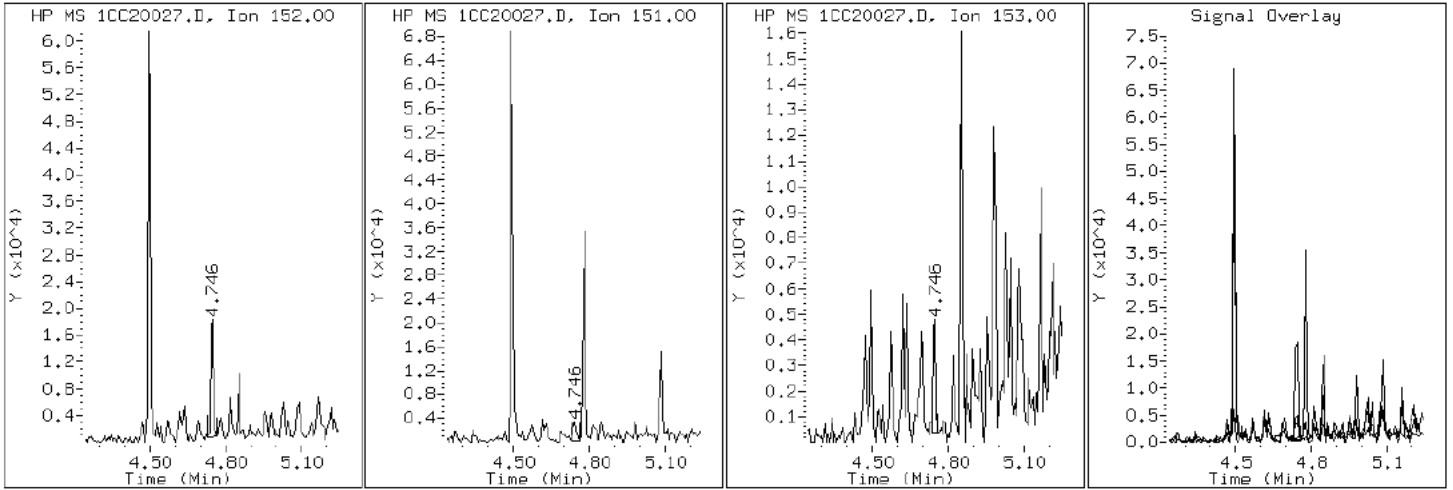
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

5 Acenaphthylene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

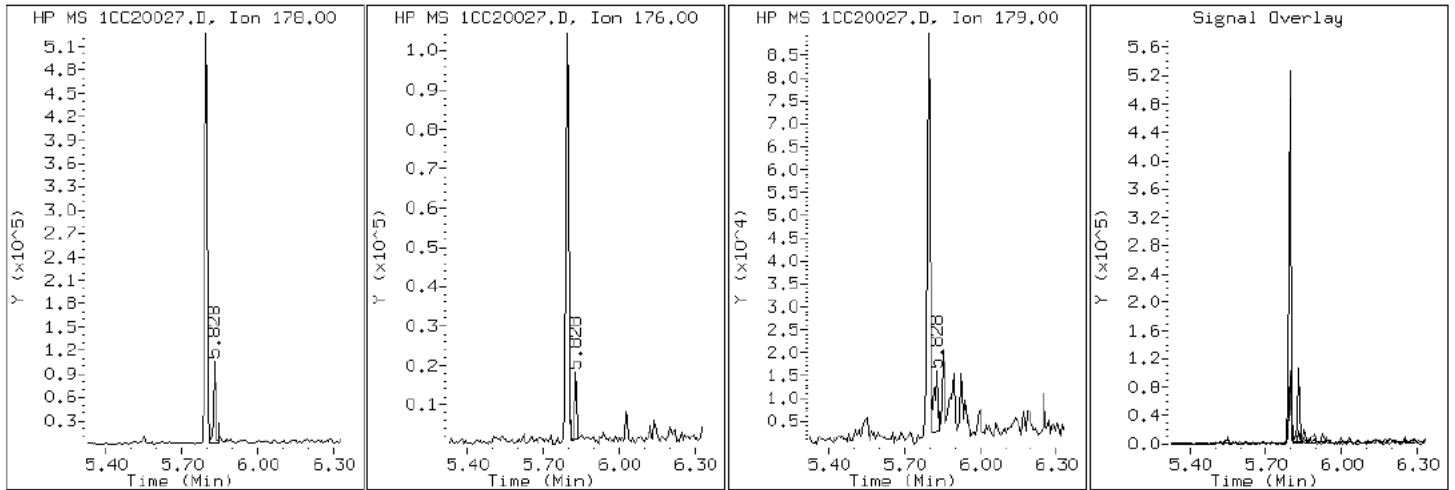
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

12 Anthracene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

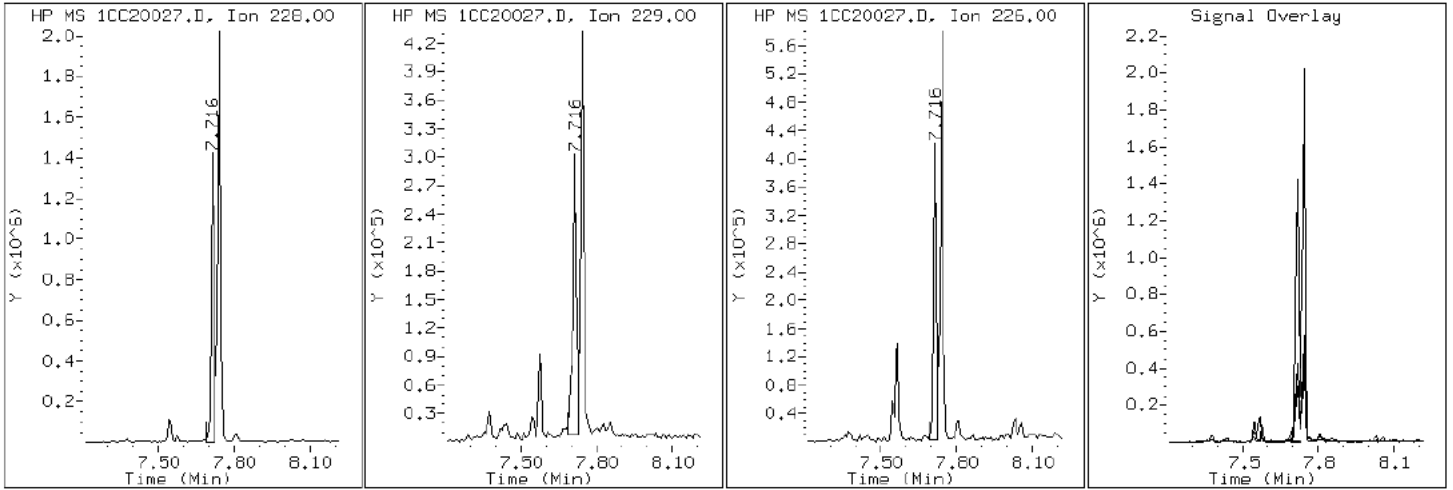
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

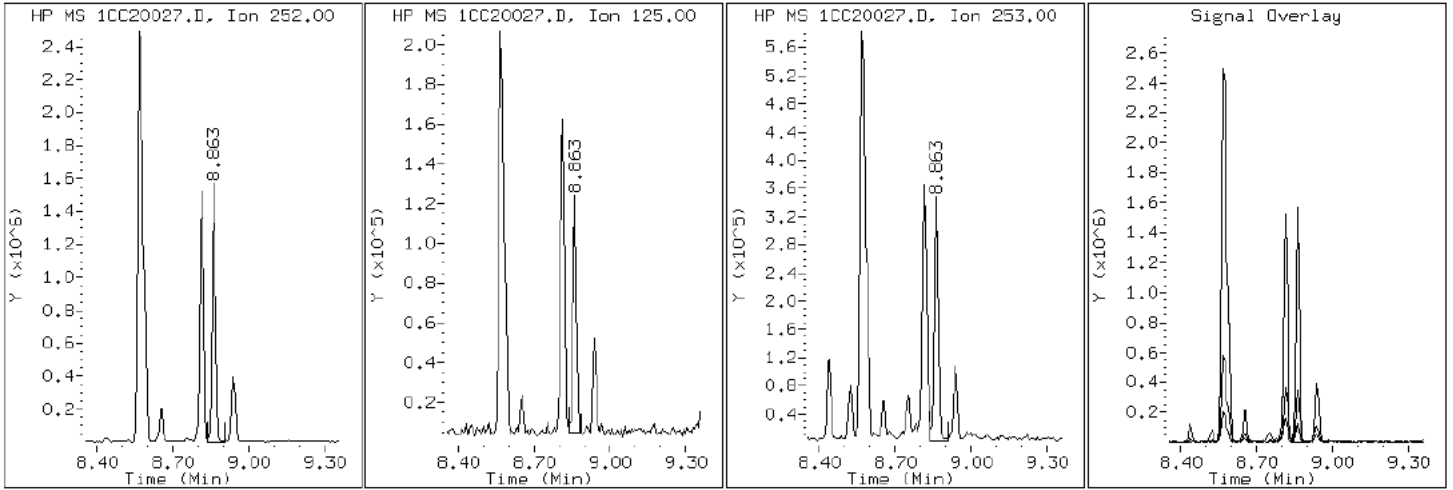
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

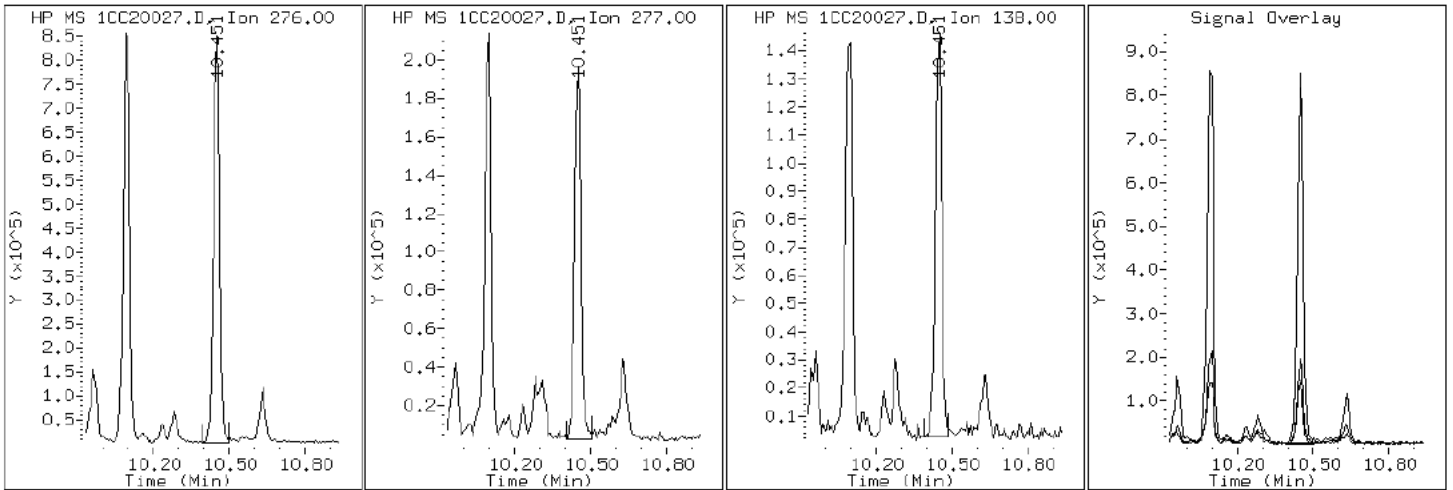
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

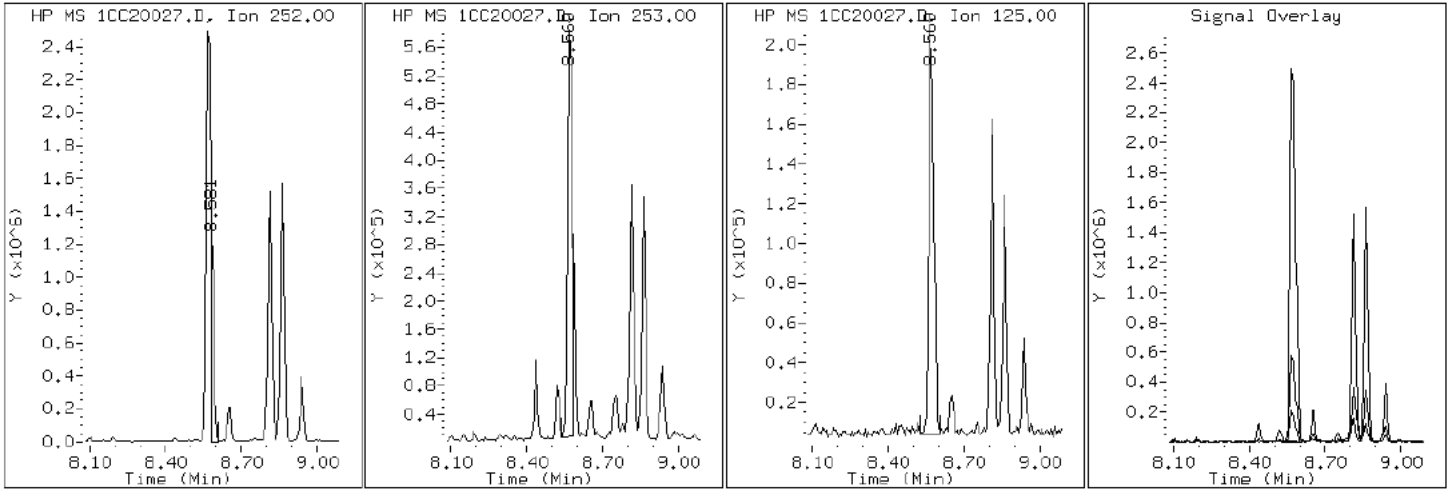
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

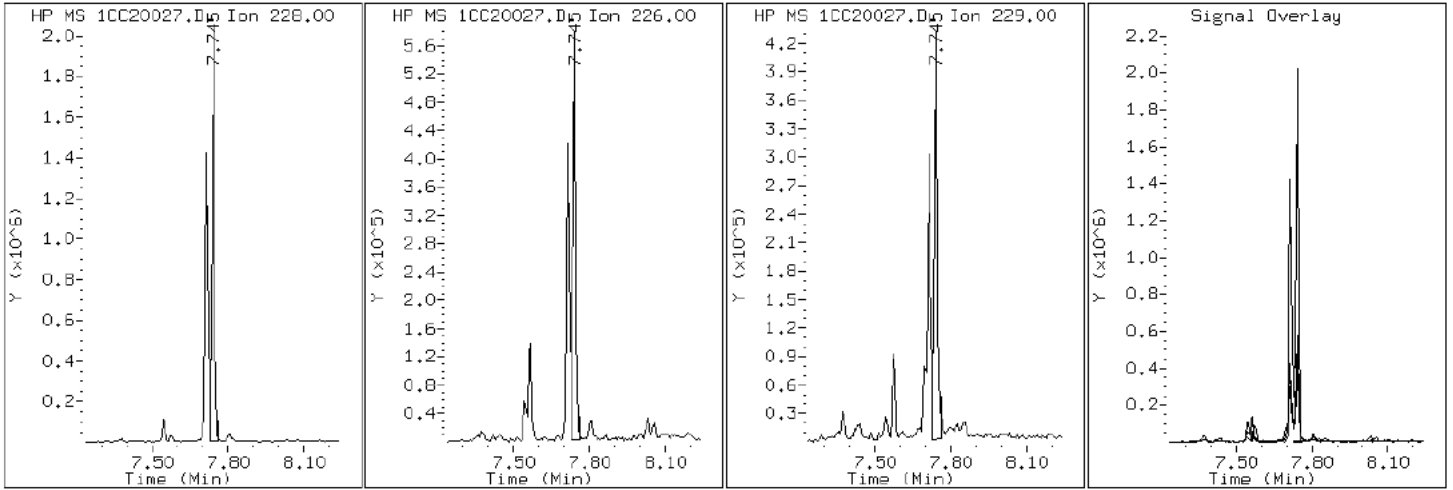
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

19 Chrysene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

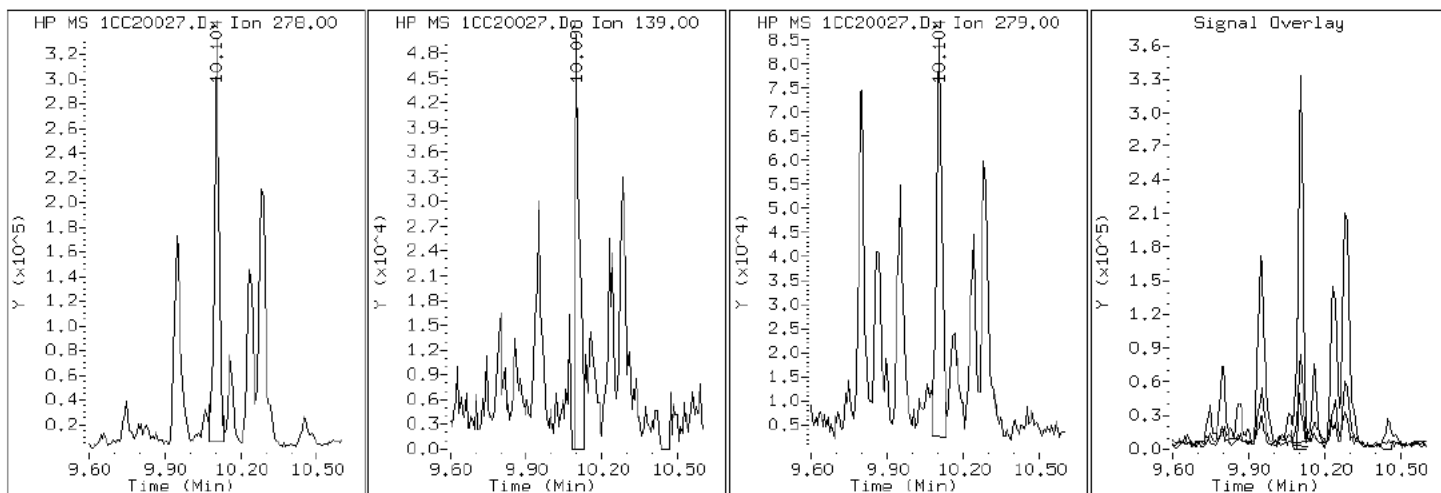
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

25 Dibenzo (a,h) anthracene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

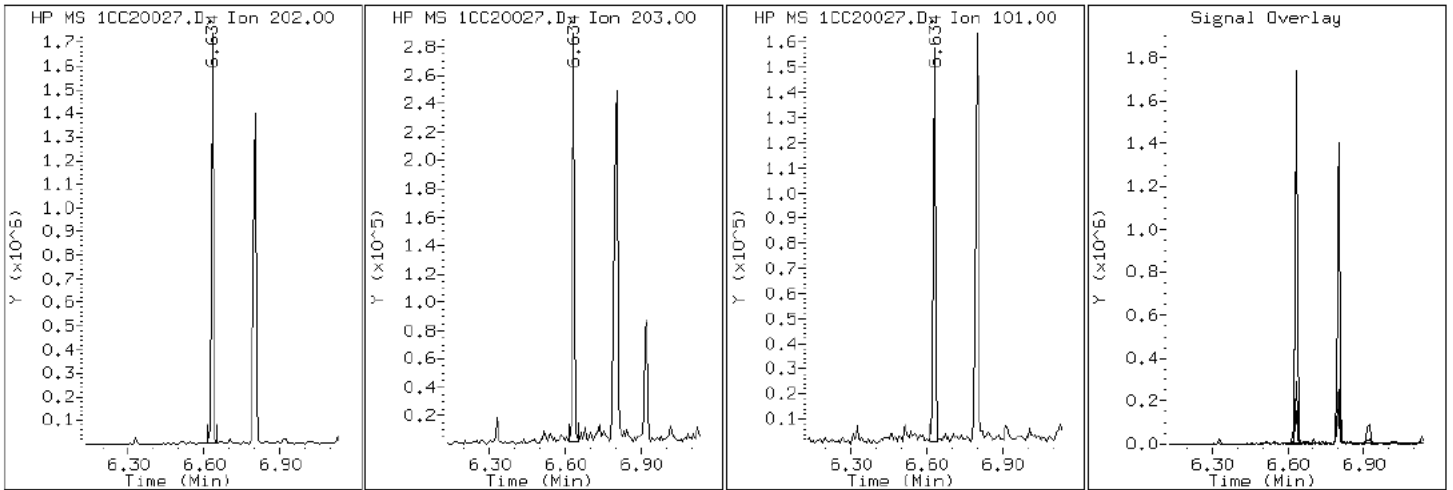
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

15 Fluoranthene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

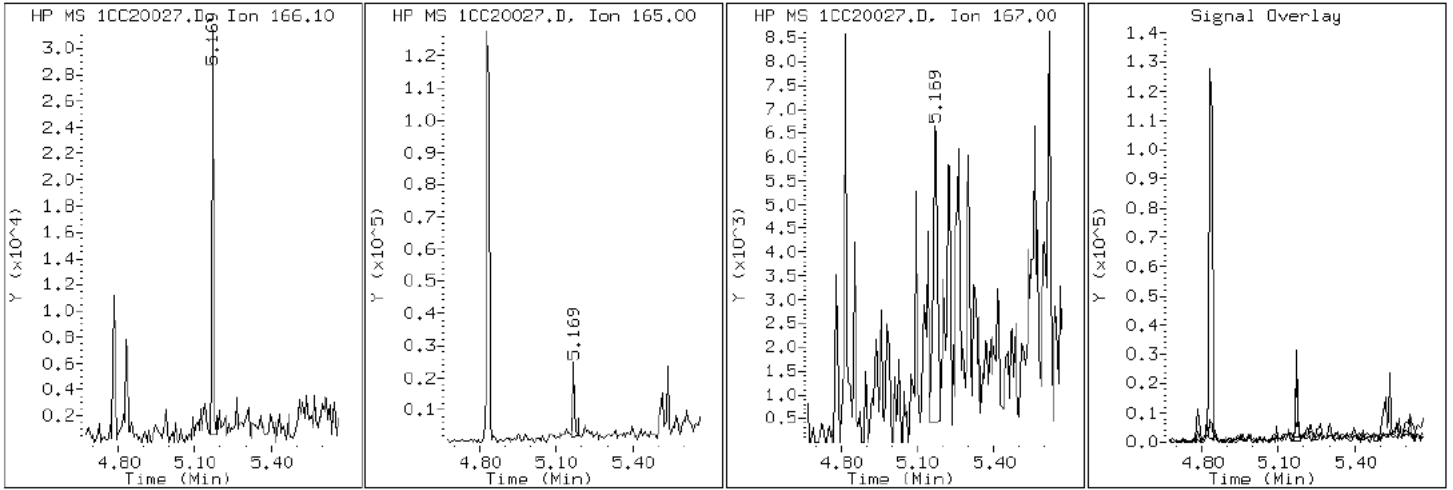
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

9 Fluorene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

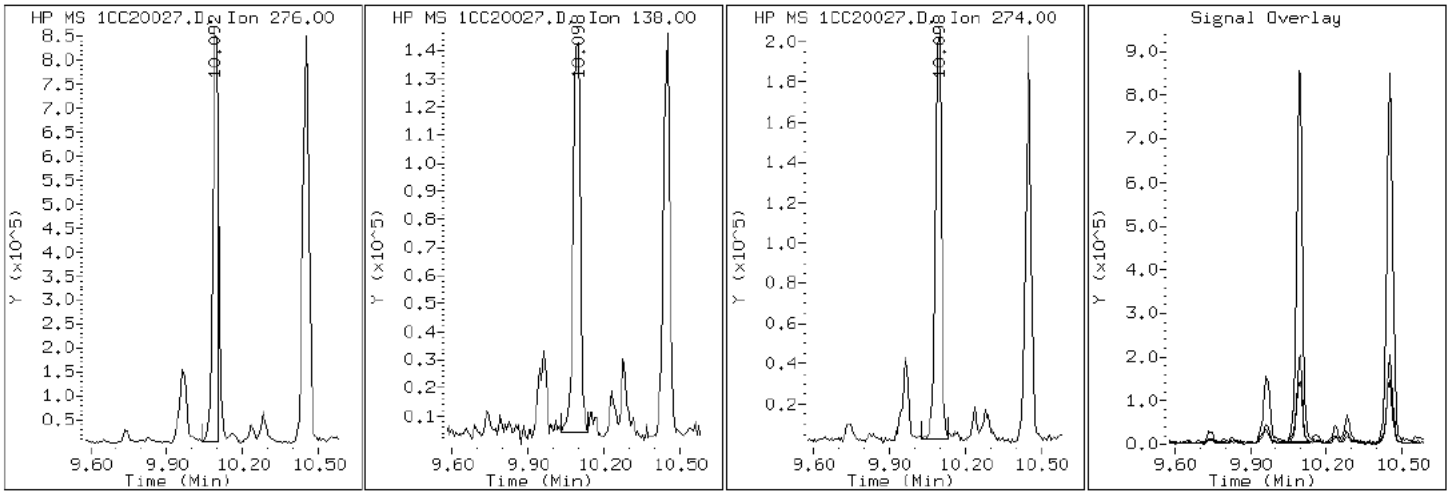
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

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



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

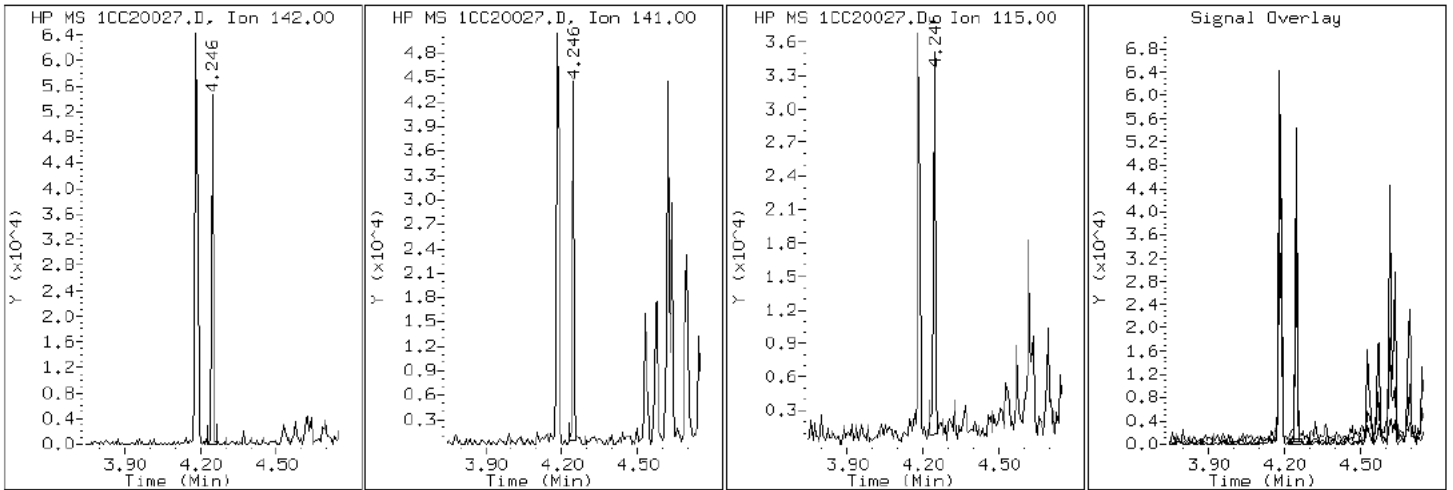
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

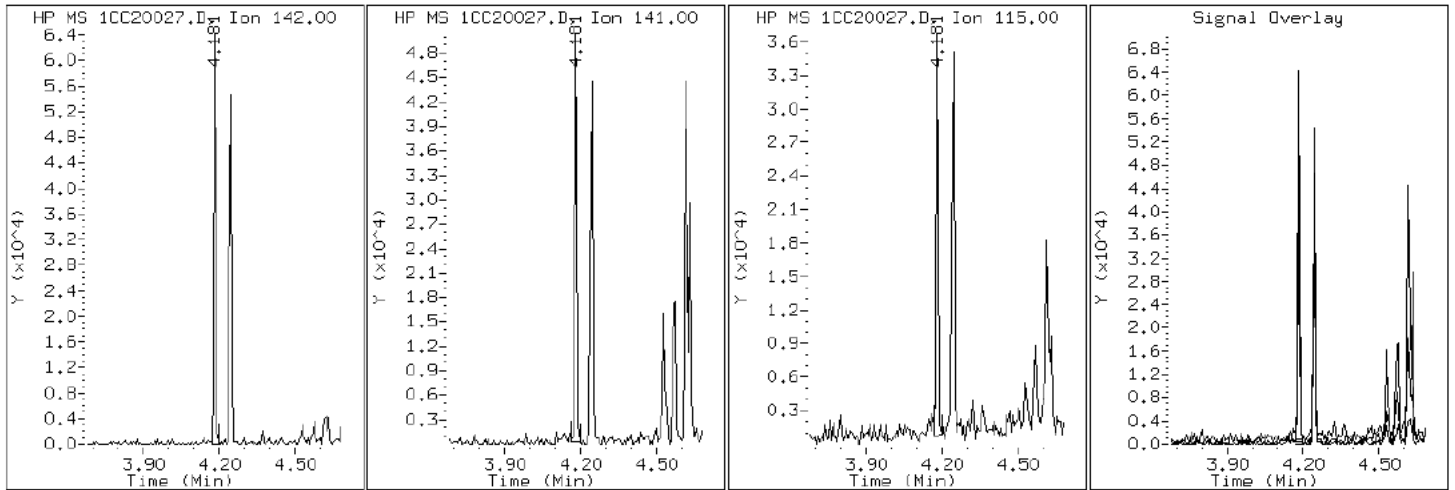
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

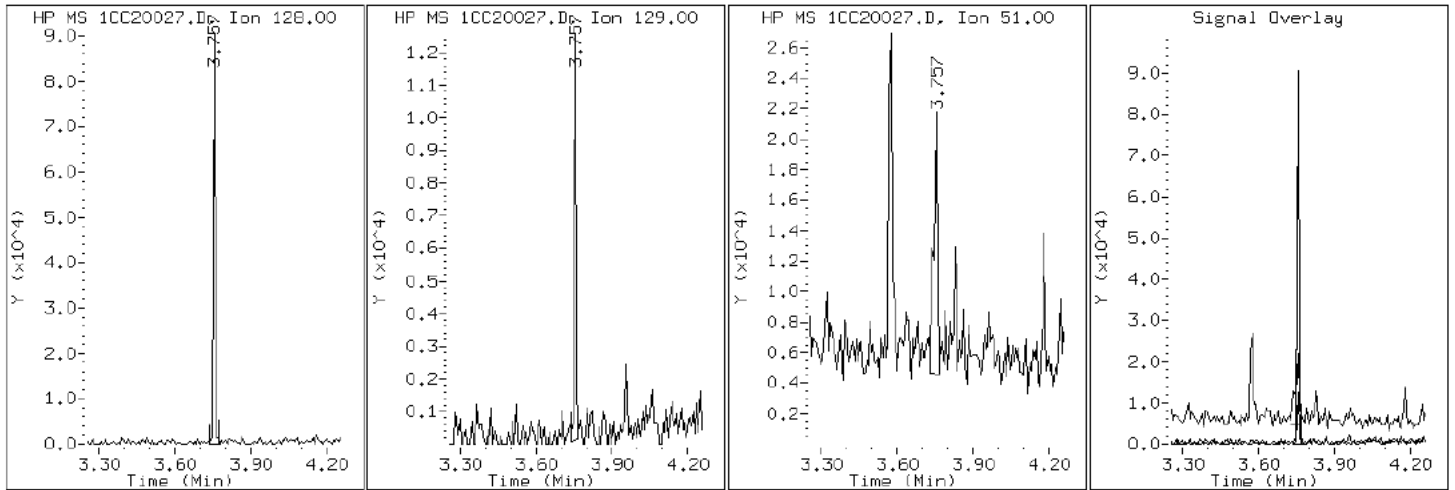
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

2 Naphthalene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

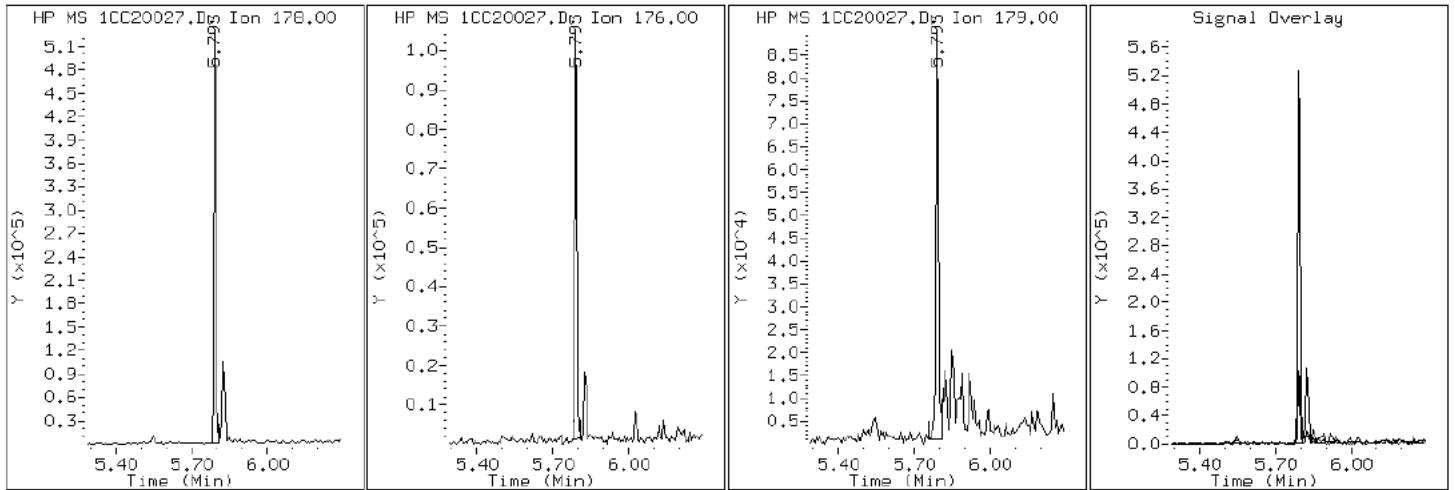
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

11 Phenanthrene



Data File: 1CC20027.D

Date: 20-MAR-2013 17:59

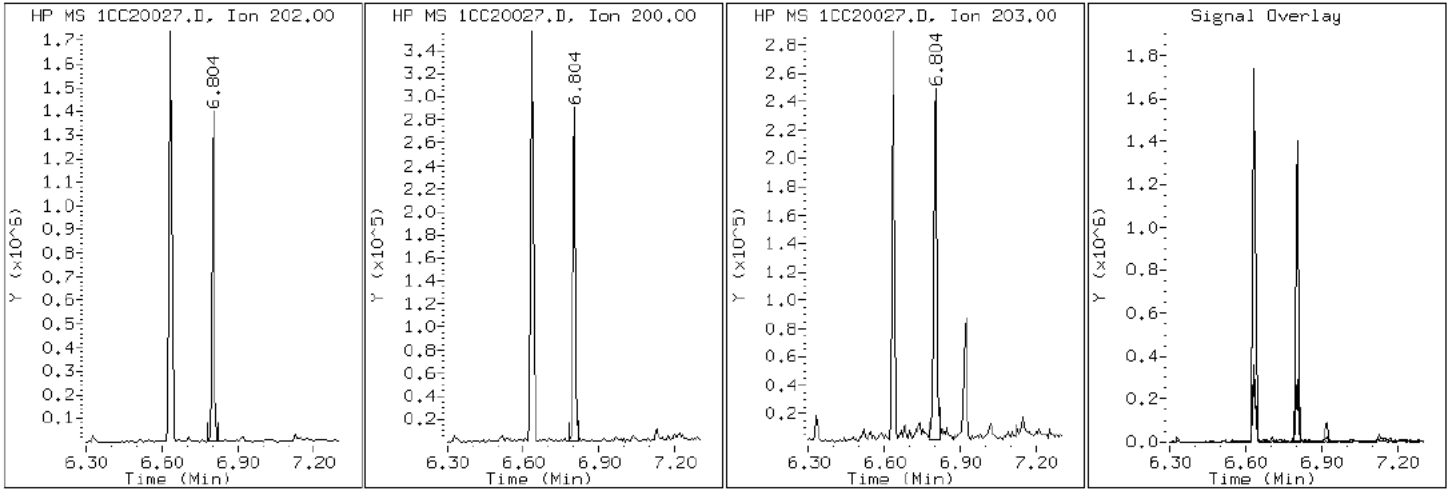
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-a-20-a

Operator: SCC

16 Pyrene

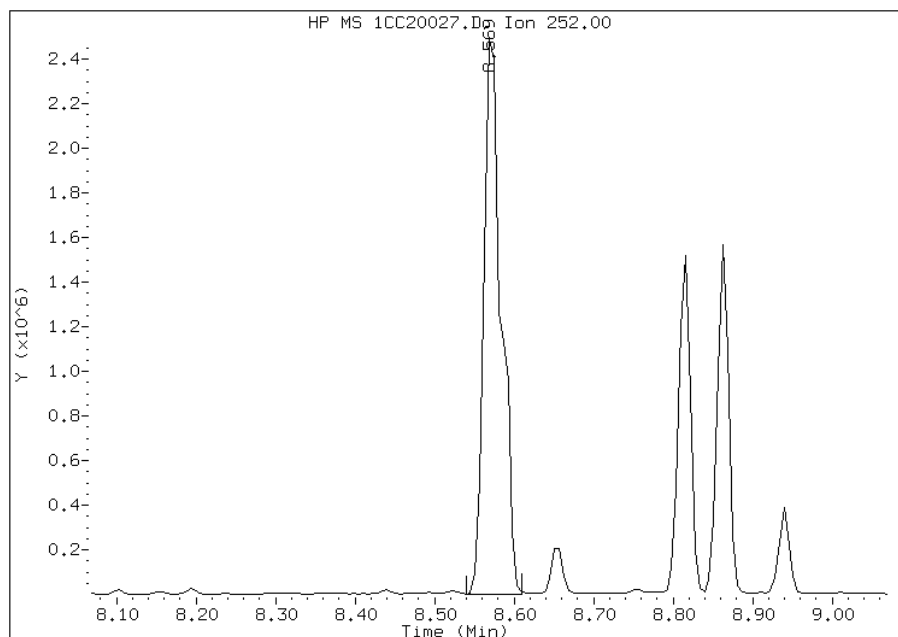


Manual Integration Report

Data File: 1CC20027.D
Inj. Date and Time: 20-MAR-2013 17:59
Instrument ID: BSMC5973.i
Client ID: CV0590A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 03/21/2013

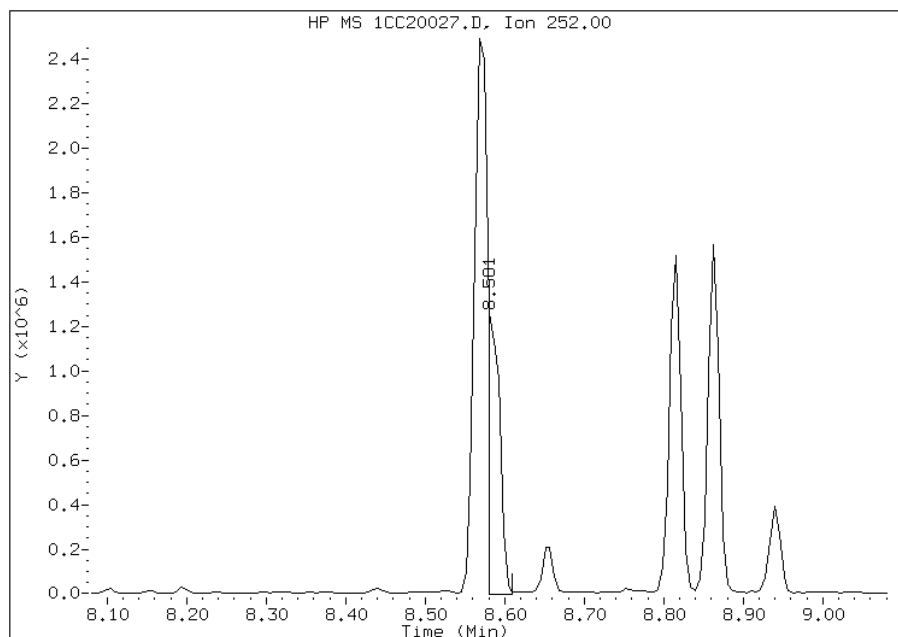
Processing Integration Results

RT: 8.57
Response: 3766415
Amount: 97
Conc: 7887



Manual Integration Results

RT: 8.58
Response: 1307579
Amount: 34
Conc: 2738



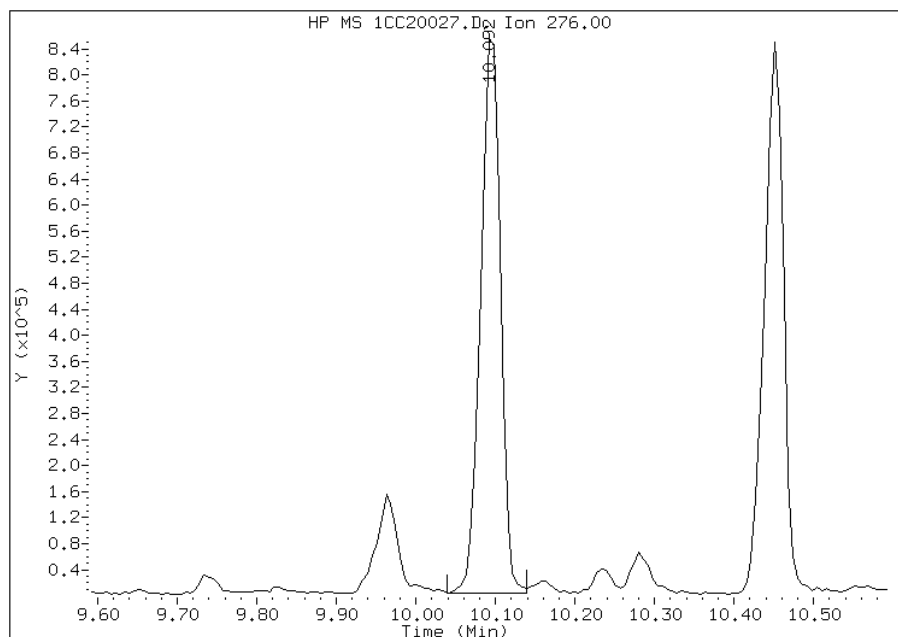
Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CC20027.D
Inj. Date and Time: 20-MAR-2013 17:59
Instrument ID: BSMC5973.i
Client ID: CV0590A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

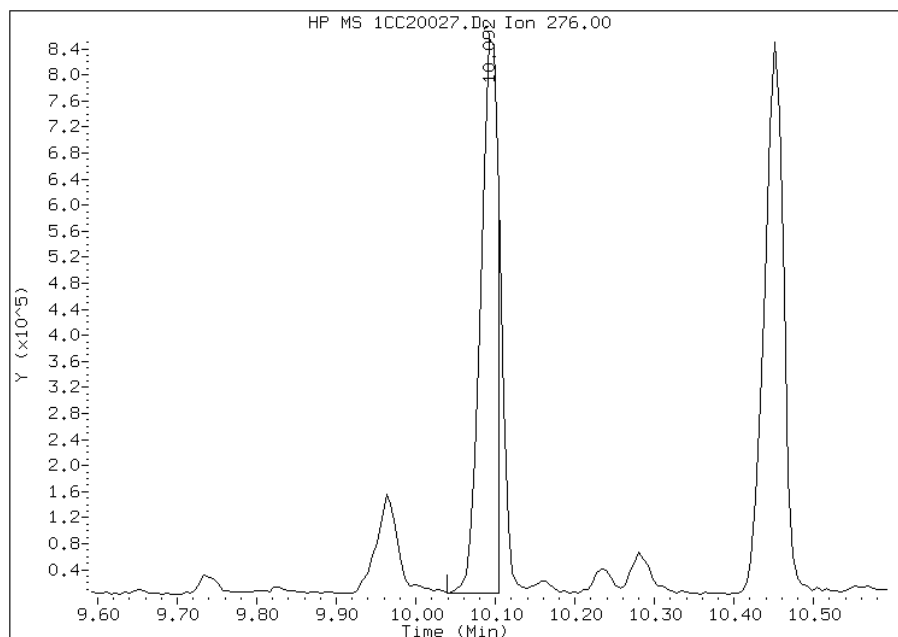
Processing Integration Results

RT: 10.09
Response: 1465271
Amount: 42
Conc: 3445



Manual Integration Results

RT: 10.09
Response: 1305542
Amount: 38
Conc: 3069



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 10:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: CV0590A-CS DL Lab Sample ID: 680-88176-20 DL
 Matrix: Solid Lab File ID: 1CC21006.D
 Analysis Method: 8270C LL Date Collected: 03/07/2013 15:20
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 14.91(g) Date Analyzed: 03/21/2013 12:29
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.5 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135643 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
205-99-2	Benzo[b]fluoranthene	5700		60	30

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21006.D
 Lab Smp Id: 680-88176-A-20-A Client Smp ID: CV0590A-CS
 Inj Date : 21-MAR-2013 12:29
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : 680-88176-A-20-A
 Misc Info : 680-88176-A-20-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 5
 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	14.910	Weight Extracted
M	17.518	% 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		3.739	3.739	(1.000)	846580	40.0000	
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	669418	40.0000	
* 10 Phenanthrene-d10	188		5.774	5.774	(1.000)	1245520	40.0000	
\$ 14 o-Terphenyl	230		6.021	6.027	(1.043)	19657	1.04529	339.9875
* 18 Chrysene-d12	240		7.715	7.715	(1.000)	1547673	40.0000	
* 23 Perylene-d12	264		8.898	8.898	(1.000)	1596754	40.0000	
2 Naphthalene	128		3.751	3.751	(1.003)	12125	0.55014	178.9373(Q)
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	6881	0.46805	152.2356
4 1-Methylnaphthalene	142		4.239	4.239	(1.134)	7189	0.53691	174.6341
5 Acenaphthylene	152		4.739	4.739	(0.982)	2550	0.09448	30.7312
7 Acenaphthene	154		4.845	4.845	(1.004)	1836	0.10945	35.5985(aQ)
9 Fluorene	166		5.163	5.162	(1.069)	2317	0.10921	35.5226
11 Phenanthrene	178		5.792	5.792	(1.003)	80151	2.22549	723.8536
12 Anthracene	178		5.821	5.821	(1.008)	14836	0.42121	137.0006

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.933	5.933	(1.028)	7881	0.25171	81.8689
15 Fluoranthene	202	6.627	6.627	(1.148)	238542	6.04812	1967.1824
16 Pyrene	202	6.792	6.792	(0.880)	228304	5.48920	1785.3917
17 Benzo(a)anthracene	228	7.709	7.709	(0.999)	248139	5.55508	1806.8199
19 Chrysene	228	7.733	7.733	(1.002)	372753	8.33855	2712.1575
20 Benzo(b)fluoranthene	252	8.551	8.551	(0.961)	735469	17.6248	5732.5736(M)
21 Benzo(k)fluoranthene	252	8.551	8.574	(0.961)	866581	20.2436	6584.3480
22 Benzo(a)pyrene	252	8.845	8.845	(0.994)	368975	9.10316	2960.8505
24 Indeno(1,2,3-cd)pyrene	276	10.068	10.068	(1.132)	351271	9.21252	2996.4217
25 Dibenzo(a,h)anthracene	278	10.074	10.086	(1.132)	115497	3.09675	1007.2332
26 Benzo(g,h,i)perylene	276	10.415	10.421	(1.171)	362611	9.09098	2956.8889

QC Flag Legend

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

Data File: 1CC21006.D

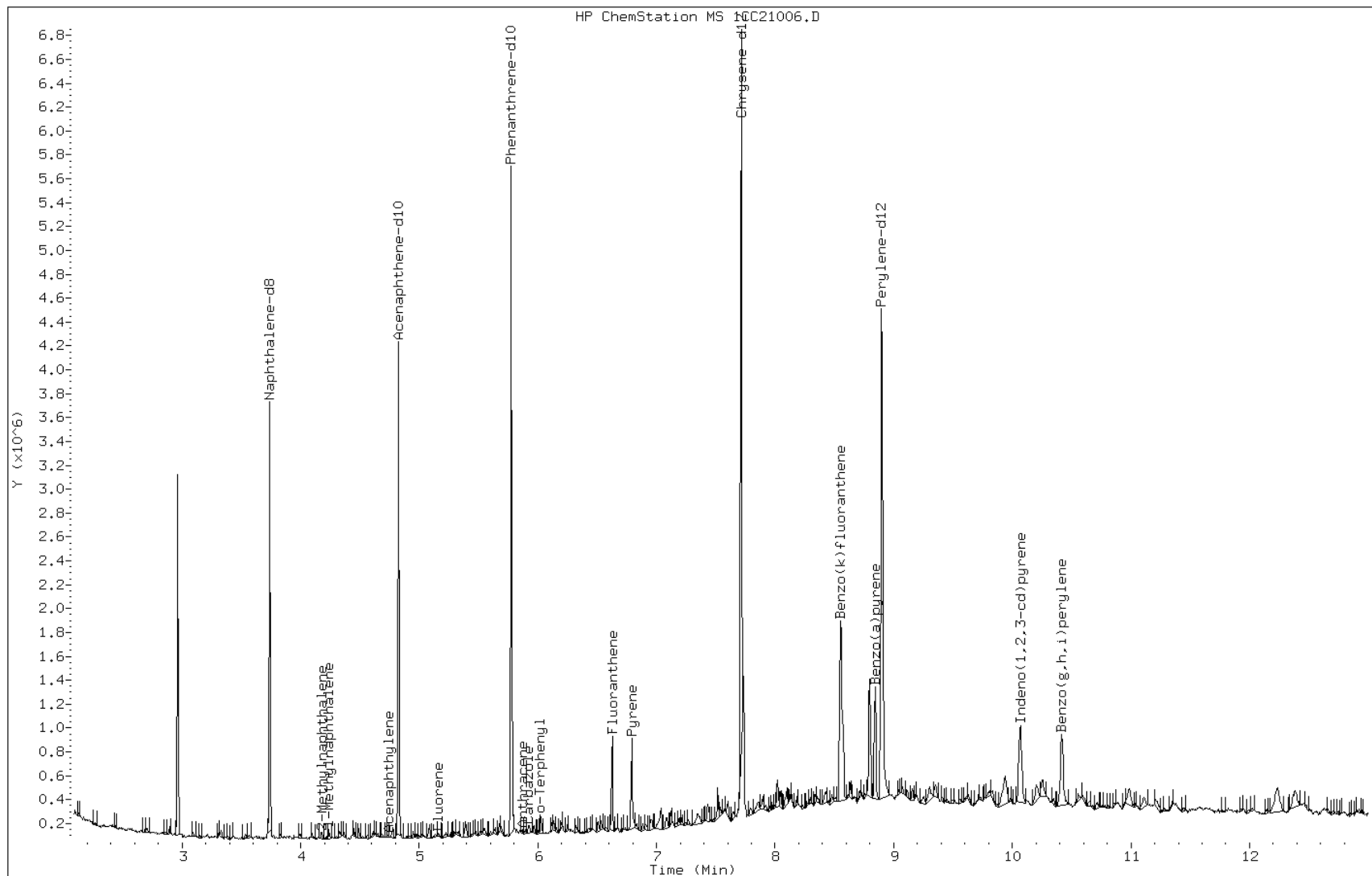
Date: 21-MAR-2013 12:29

Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-A-20-A

Operator: SCC



Data File: 1CC21006.D

Date: 21-MAR-2013 12:29

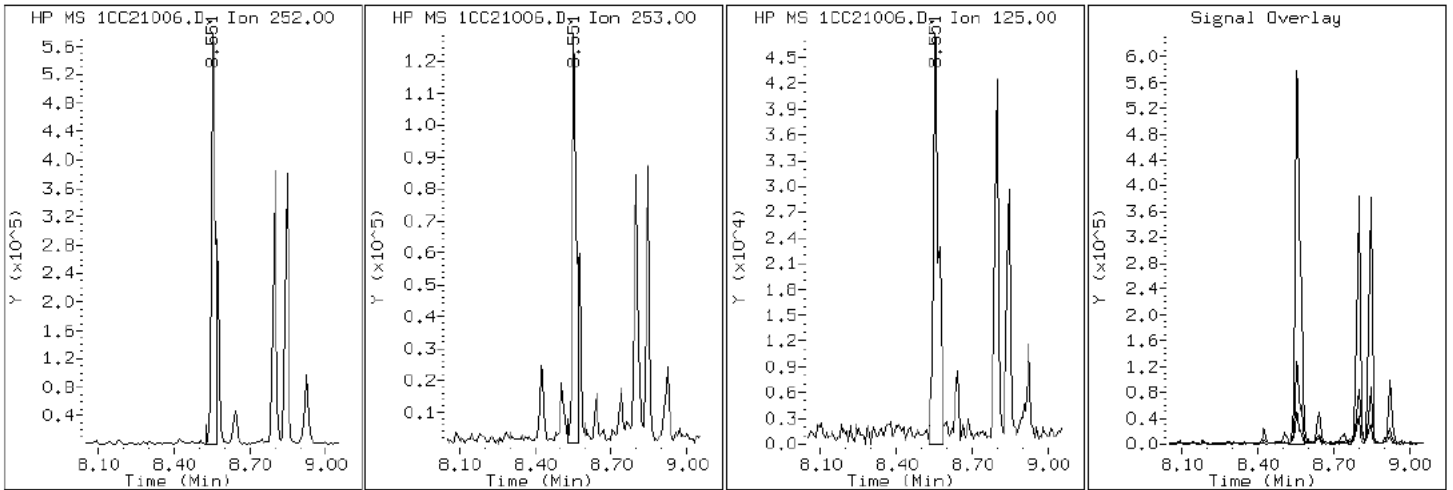
Client ID: CV0590A-CS

Instrument: BSMC5973.i

Sample Info: 680-88176-A-20-A

Operator: SCC

20 Benzo (b) fluoranthene

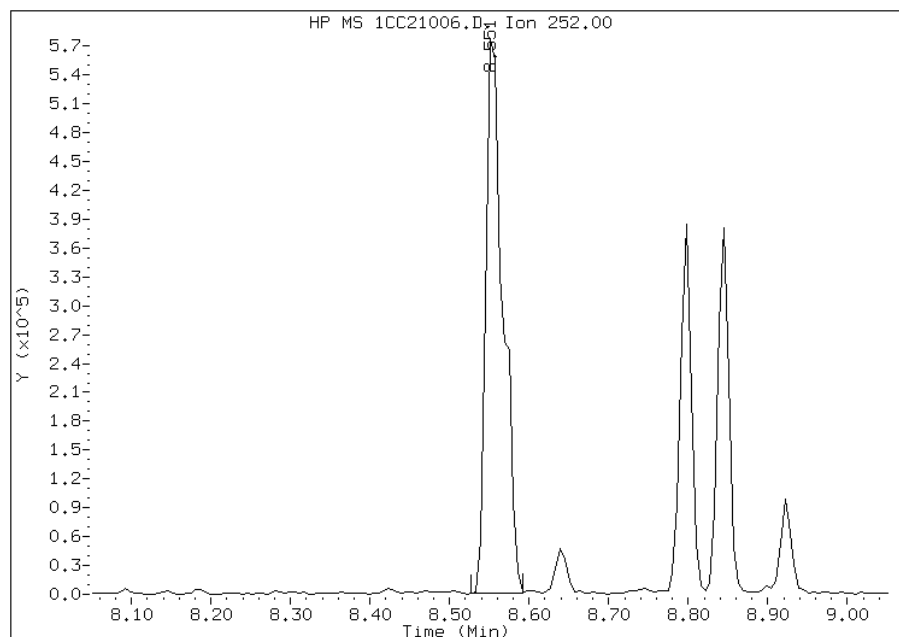


Manual Integration Report

Data File: 1CC21006.D
Inj. Date and Time: 21-MAR-2013 12:29
Instrument ID: BSMC5973.i
Client ID: CV0590A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 03/21/2013

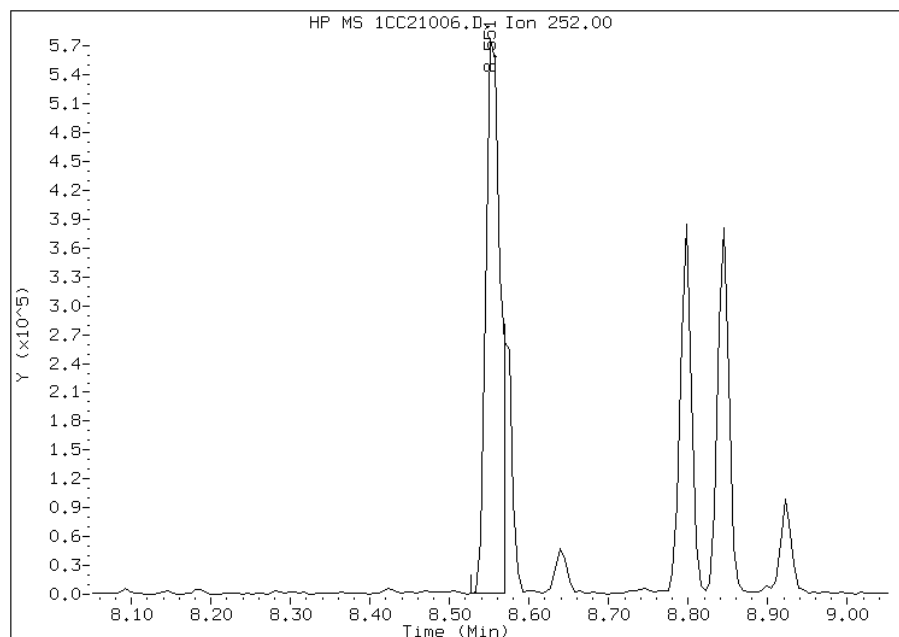
Processing Integration Results

RT: 8.55
Response: 867438
Amount: 21
Conc: 6761



Manual Integration Results

RT: 8.55
Response: 735469
Amount: 18
Conc: 5733



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 12:52
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-88176-1 Analy Batch No.: 134776

SDG No.: 68088176-1

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.: 680-88176-1 Analy Batch No.: 134776

SDG No.: 68088176-1

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.: 680-88176-1 Analy Batch No.: 134776

SDG No.: 68088176-1

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

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

Calibration Files:

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

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	5702 977462	31413 1788680	148399	315626	643945	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	4328 647691	19516 1170415	92089	212804	439231	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	3289 595177	17615 1106965	92698	202550	396283	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	7443 1208002	33214 2158422	172573	371048	771781	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	5407 706037	21590 1241216	109910	222376	450754	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5412 961751	28314 1689190	132137	295086	610839	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	11408 1575924	51473 2774518	234717	474400	1014750	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	10196 1605221	45666 2853457	234701	496179	1007571	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	9564 1379814	39992 2470847	206292	442919	917432	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	11431 1826908	49039 3133704	264484	553174	1173070	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	12023 1978030	58472 3458322	286919	587163	1289224	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	17074 2005529	62799 3342573	295256	598352	1287277	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15552 2071419	64086 3423784	293675	616185	1322748	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	13018 2159068	56338 3419972	280988	609549	1514965	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13108 2175966	55640 3517880	328460	673624	1360131	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-88176-1 Analy Batch No.: 134776

SDG No.: 68088176-1

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

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

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	12036	55481	282594	622966	1363217	0.200	1.00	5.00	10.0	20.0
			2128065	3380087				30.0	50.0			
Indeno[1,2,3-cd]pyrene	PRY	Ave	12119	48940	267436	582935	1327322	0.200	1.00	5.00	10.0	20.0
			1907725	3187834				30.0	50.0			
Dibenz(a,h)anthracene	PRY	Ave	11879	50354	267252	576071	1220845	0.200	1.00	5.00	10.0	20.0
			1913283	2995648				30.0	50.0			
Benzo[g,h,i]perylene	PRY	Ave	13026	53913	291148	621425	1289503	0.200	1.00	5.00	10.0	20.0
			1999689	3142464				30.0	50.0			
o-Terphenyl	PHN	Ave	5163	23584	126358	272397	558161	0.200	1.00	5.00	10.0	20.0
			872937	1512079				30.0	50.0			

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\1CB22003.D\1CB22003.D
 Meth Date : 22-Feb-2013 14:16 BSMC5973.i Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE 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

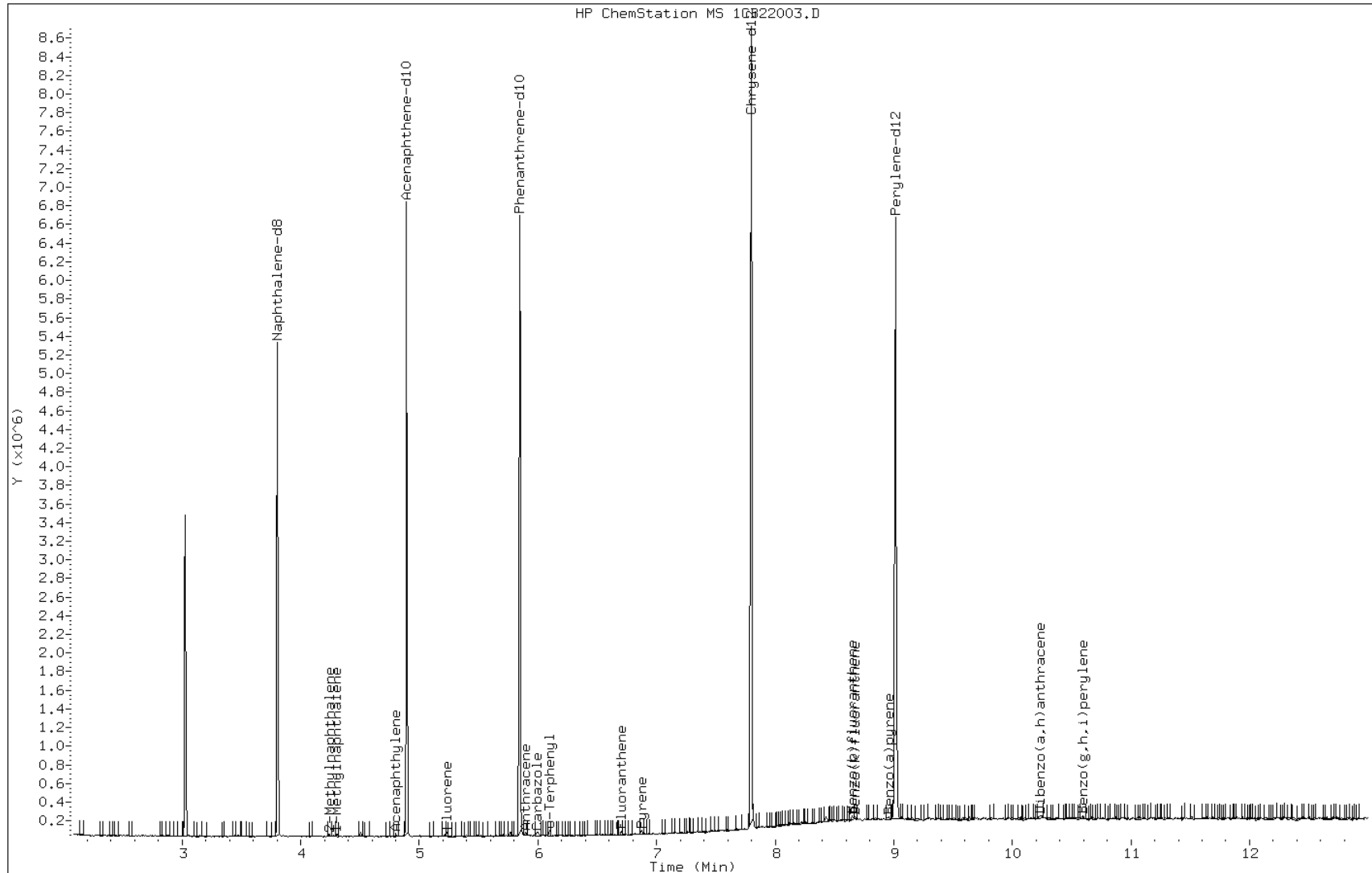
Date: 22-FEB-2013 11:57

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512358

Operator: SCC

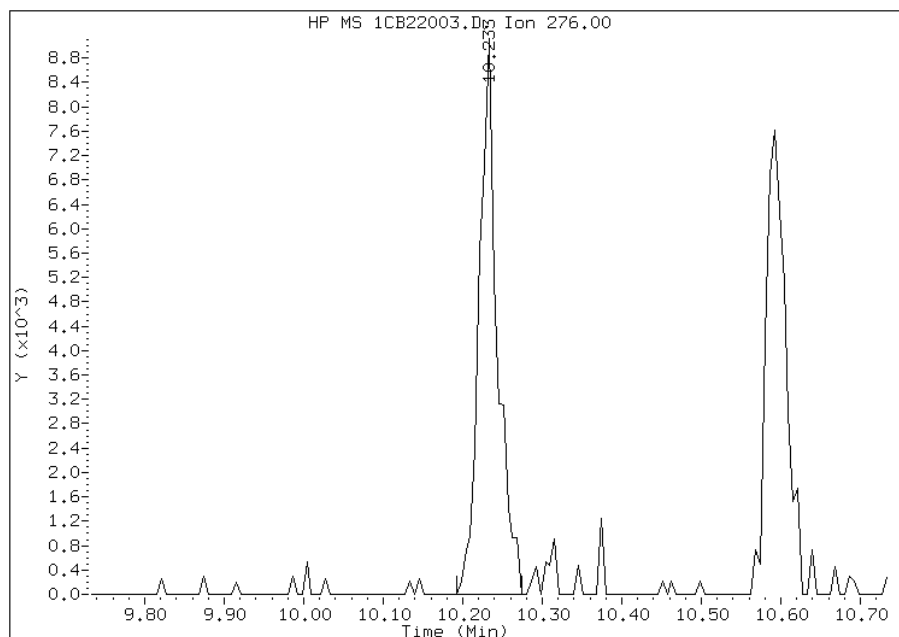


Manual Integration Report

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

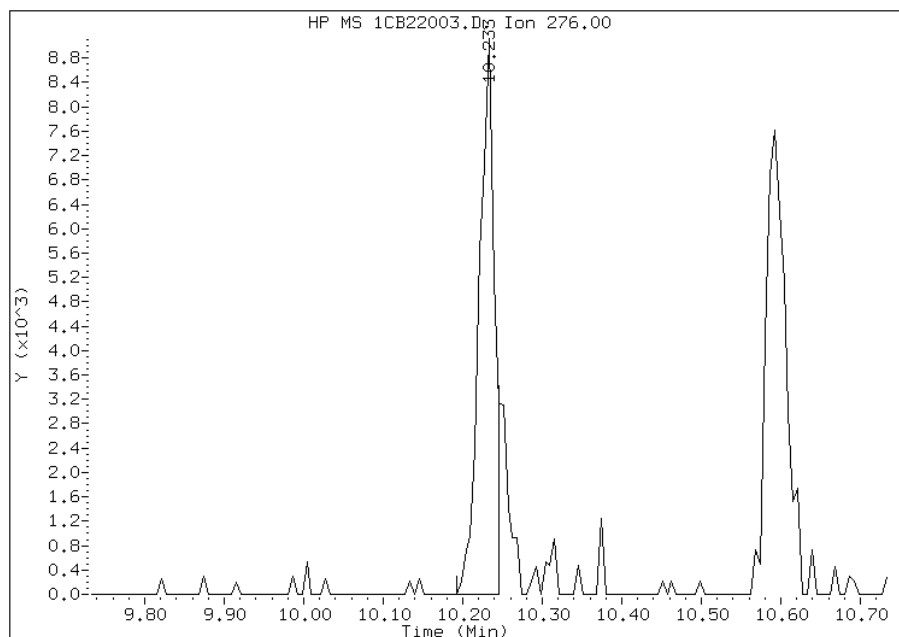
Processing Integration Results

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

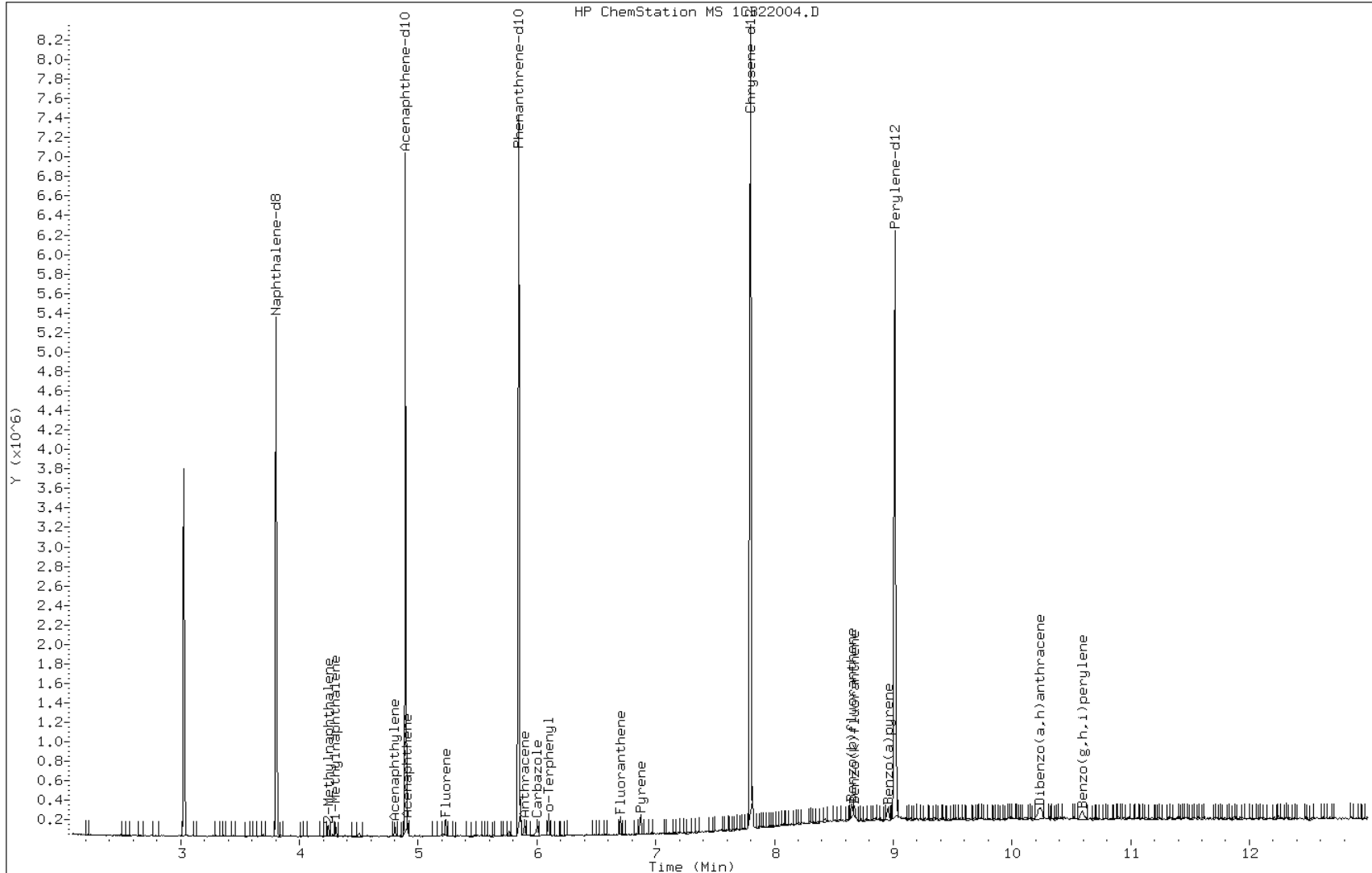
Date: 22-FEB-2013 12:16

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512359

Operator: SCC

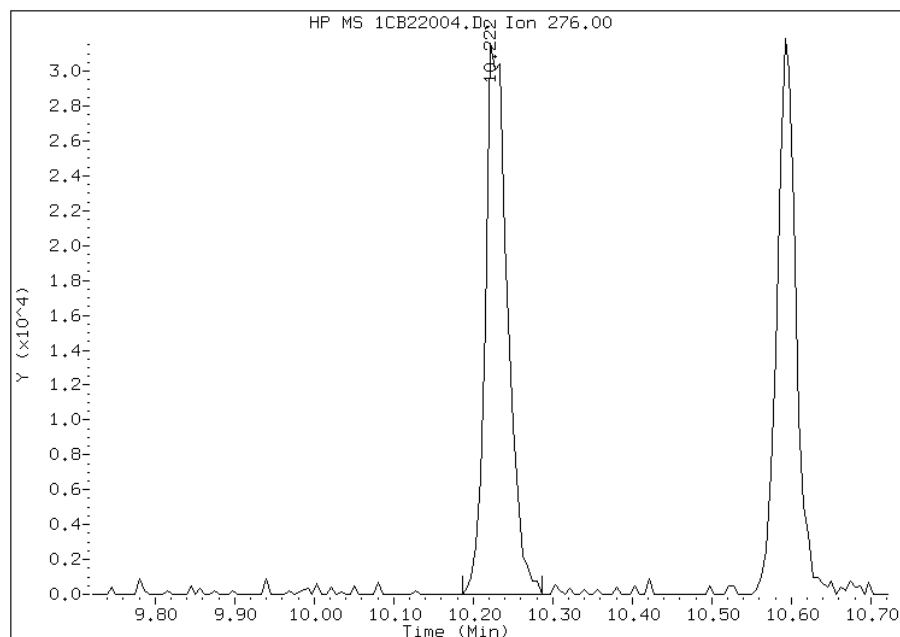


Manual Integration Report

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

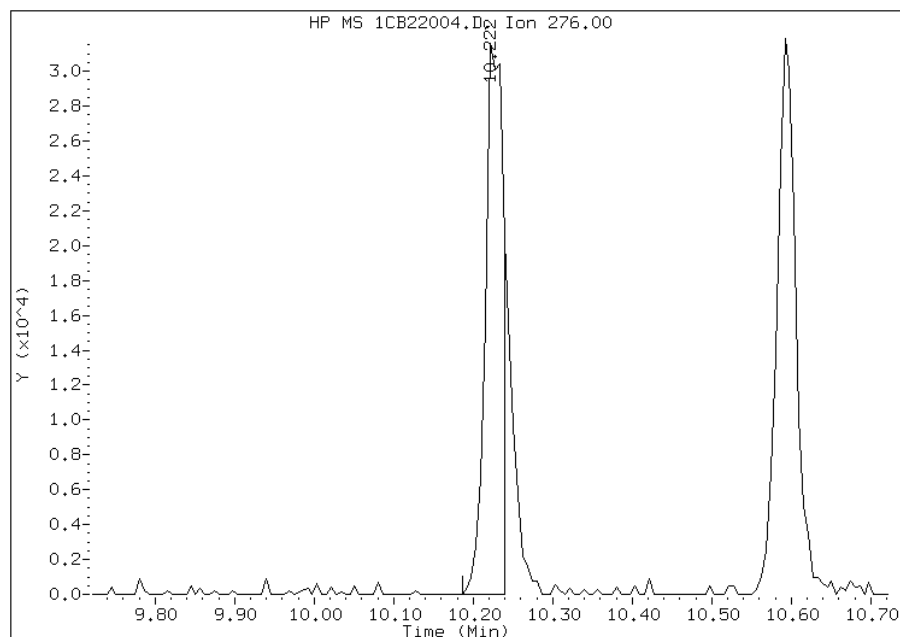
Processing Integration Results

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

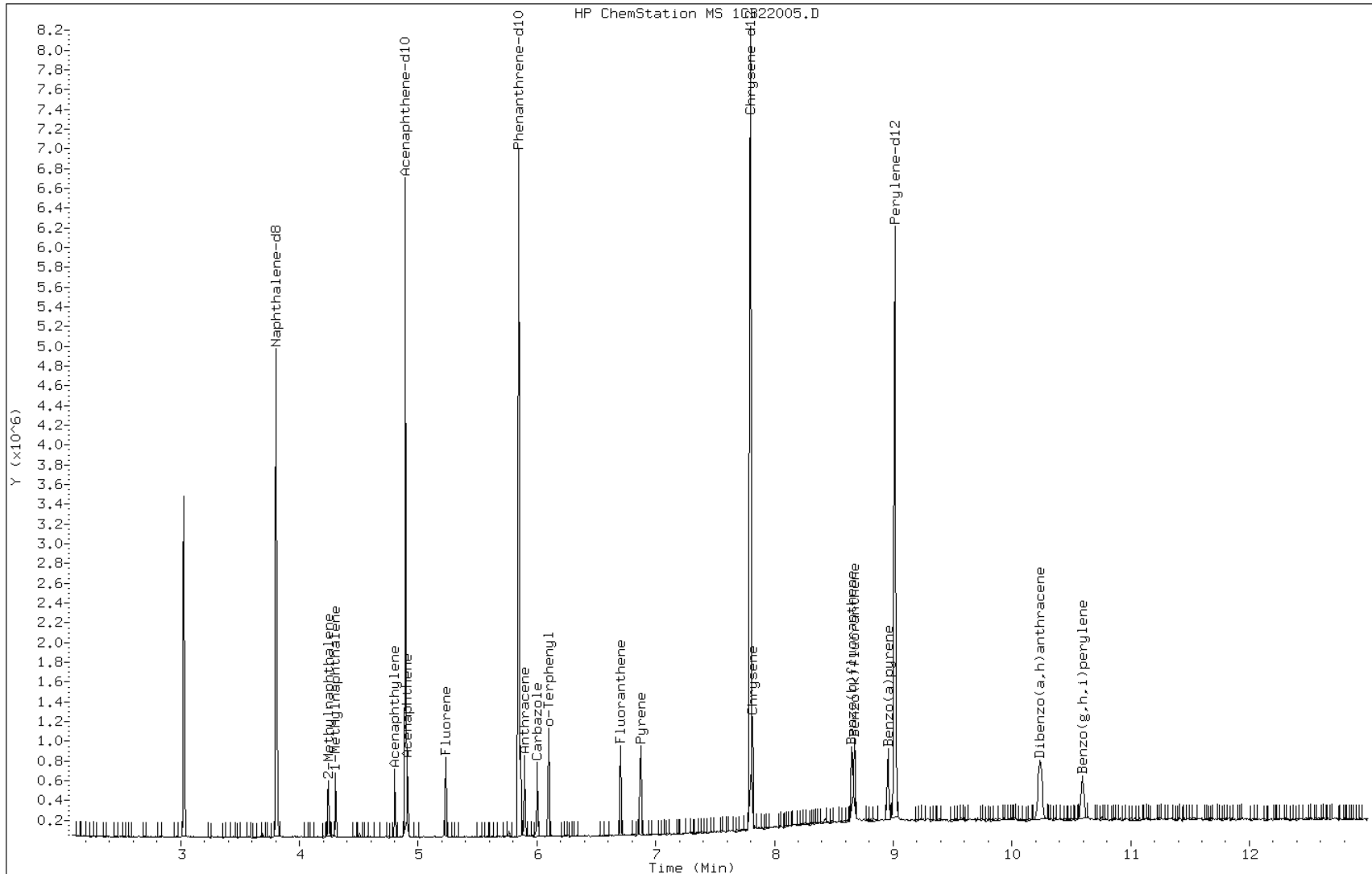
Date: 22-FEB-2013 12:34

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512360

Operator: SCC

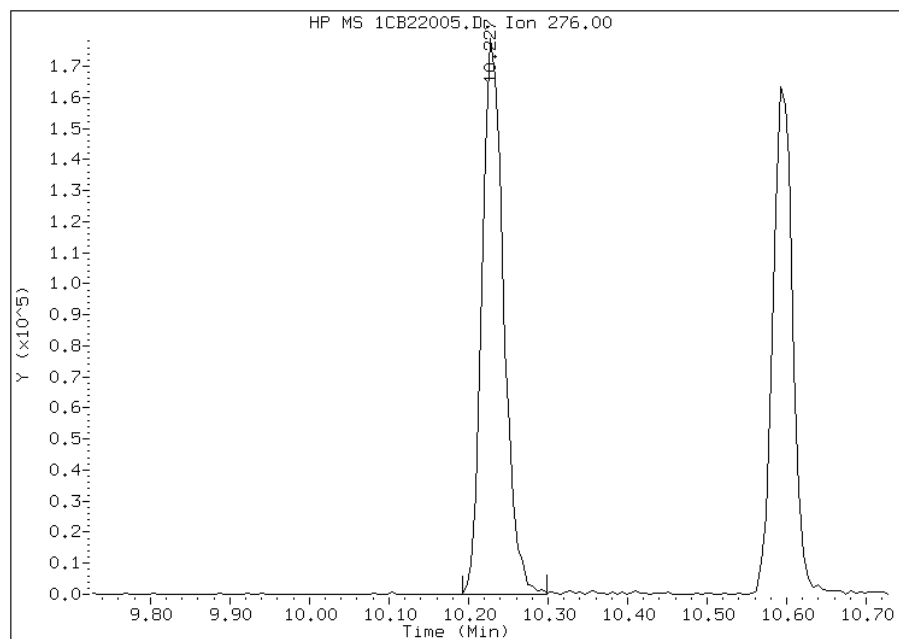


Manual Integration Report

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

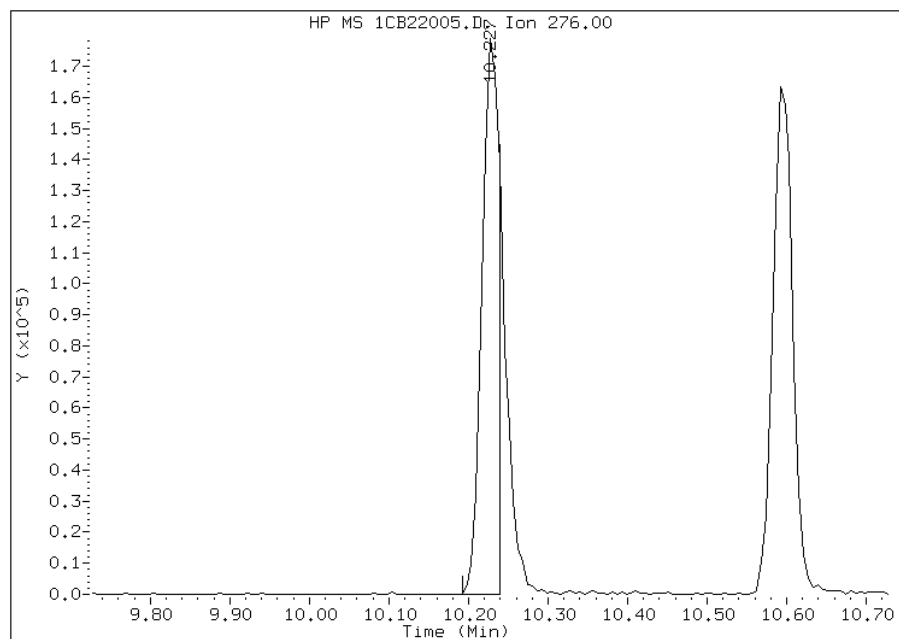
Processing Integration Results

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				ON-COL
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (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

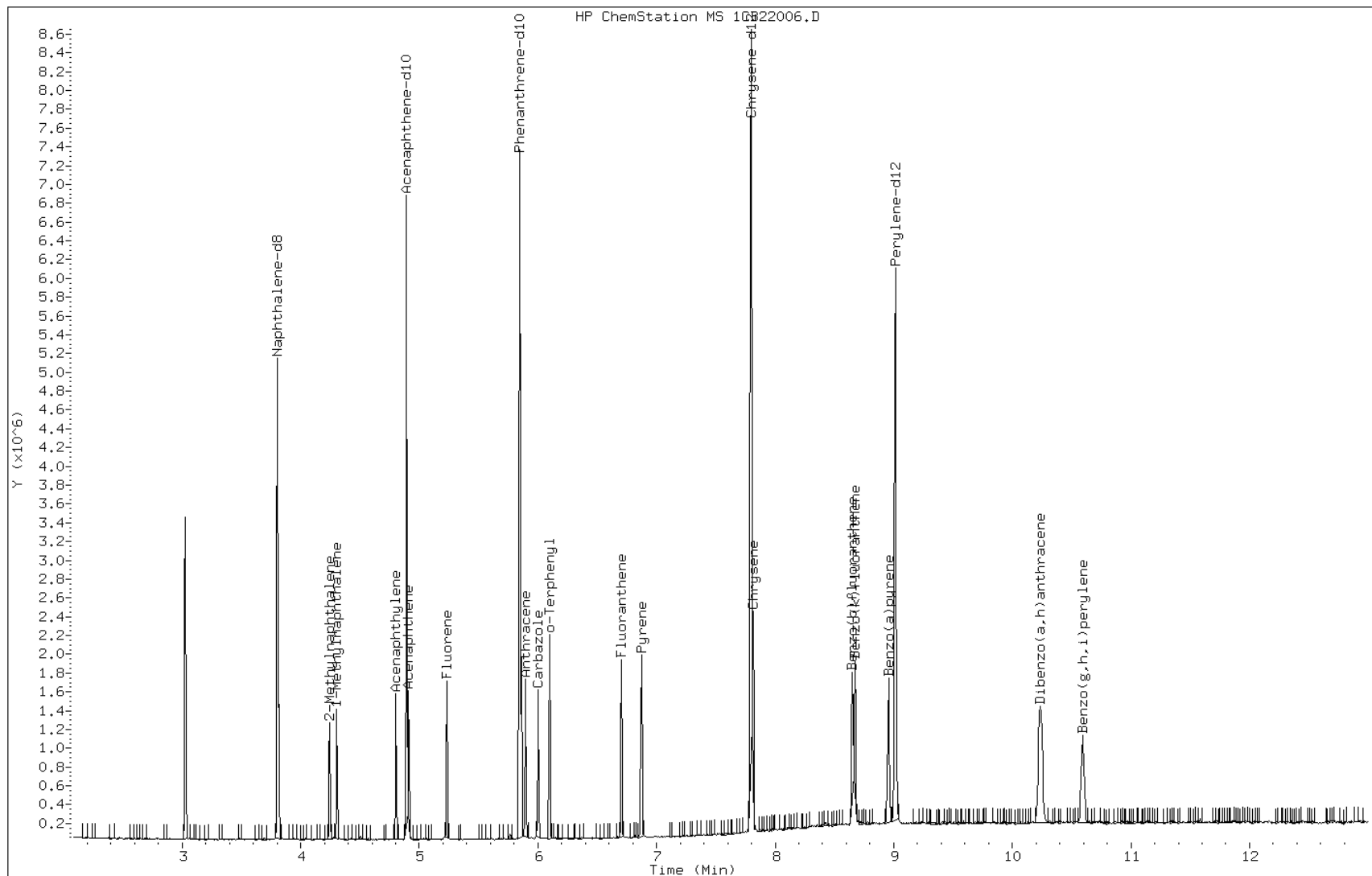
Date: 22-FEB-2013 12:53

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512361

Operator: SCC

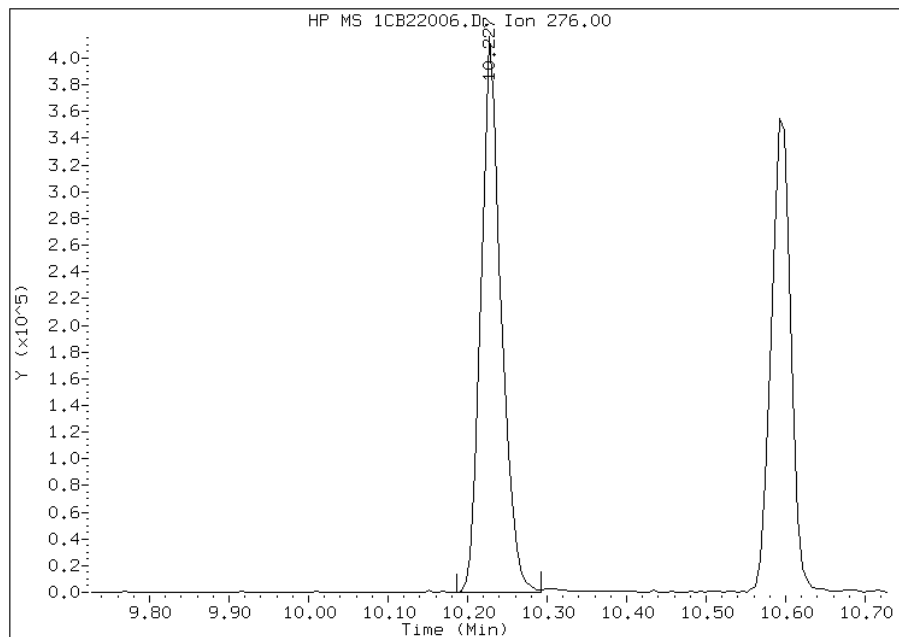


Manual Integration Report

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

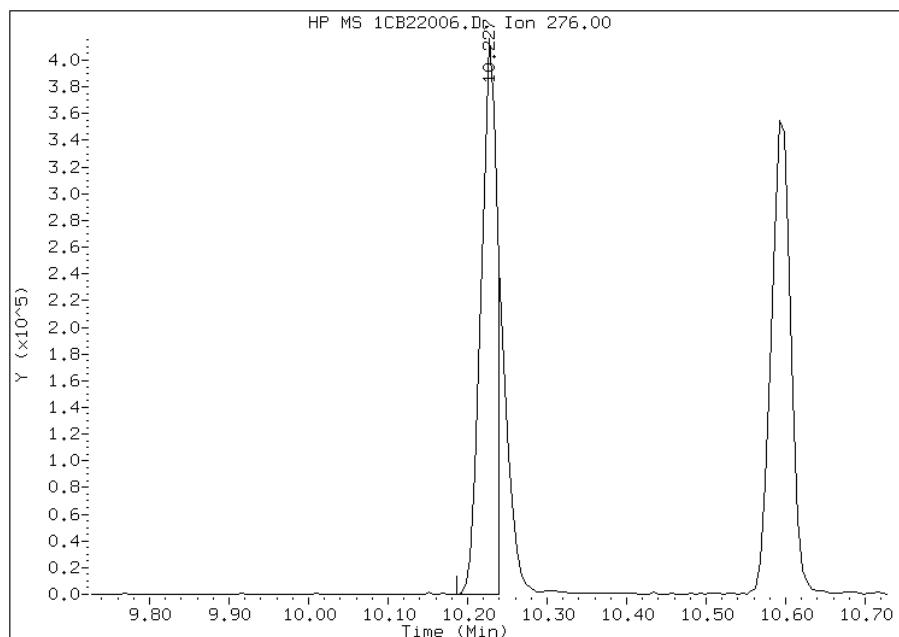
Processing Integration Results

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

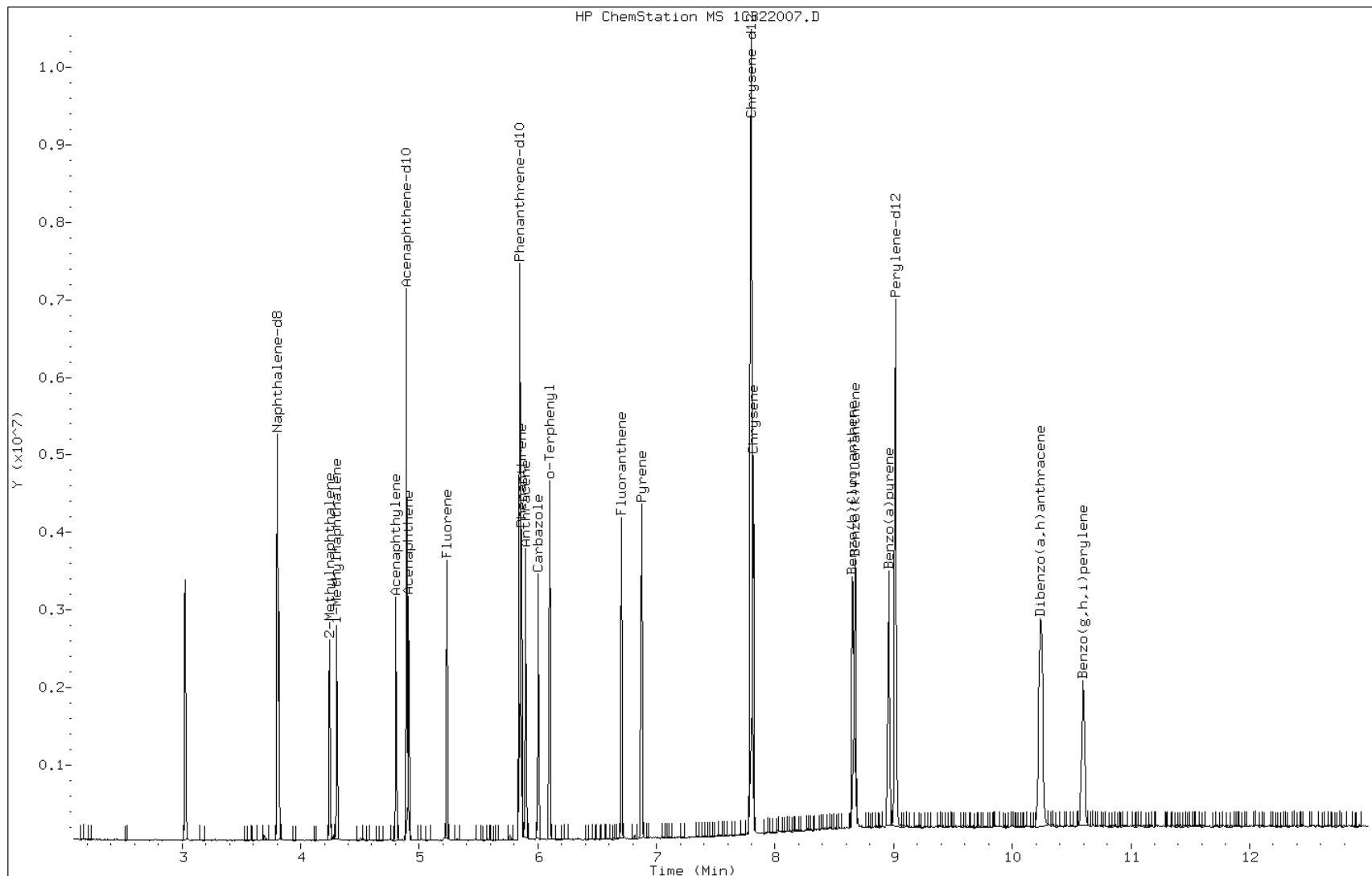
Date: 22-FEB-2013 13:11

Client ID:

Instrument: BSMC5973.i

Sample Info: ICIS-1512372

Operator: SCC

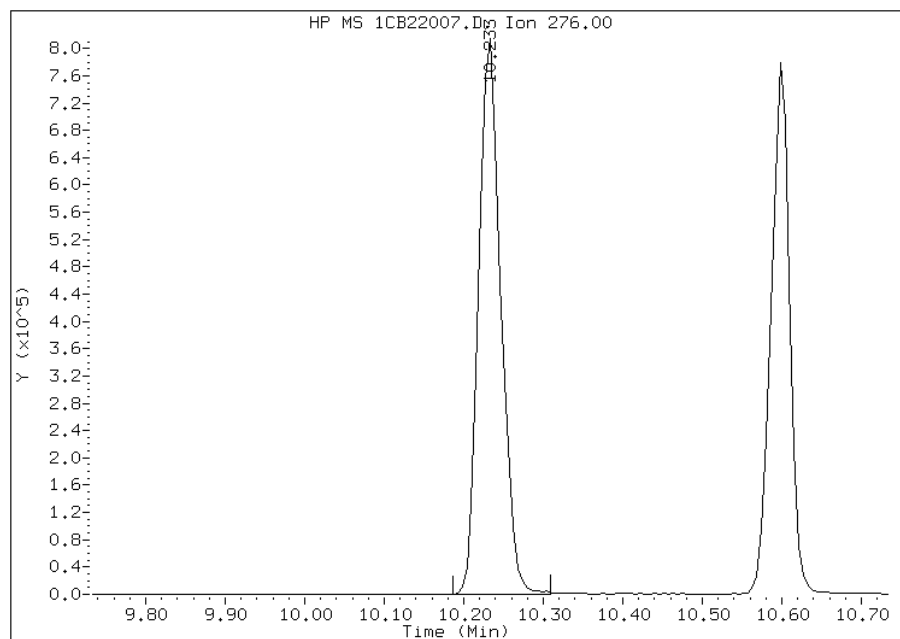


Manual Integration Report

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

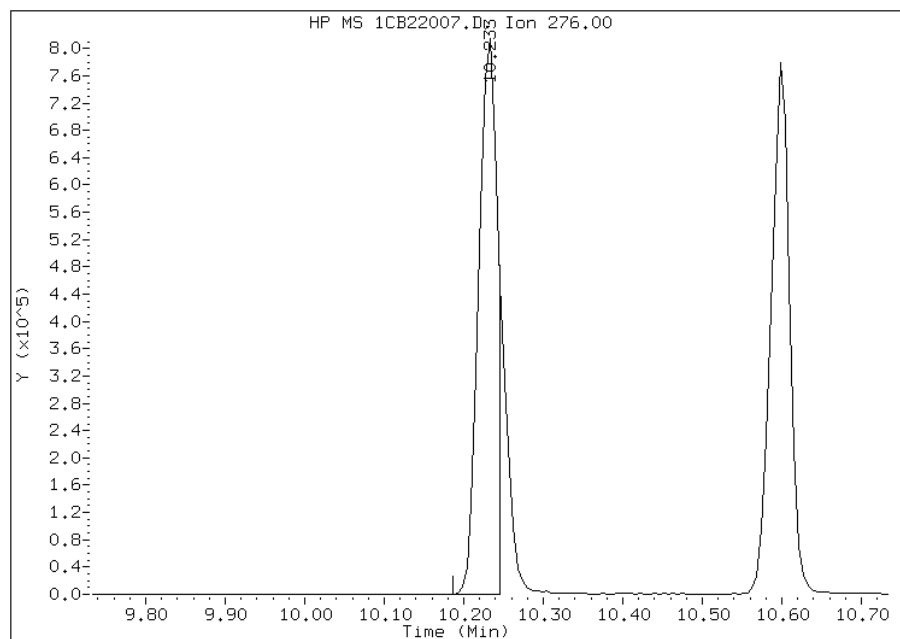
Processing Integration Results

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

Semivolatiles 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					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 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

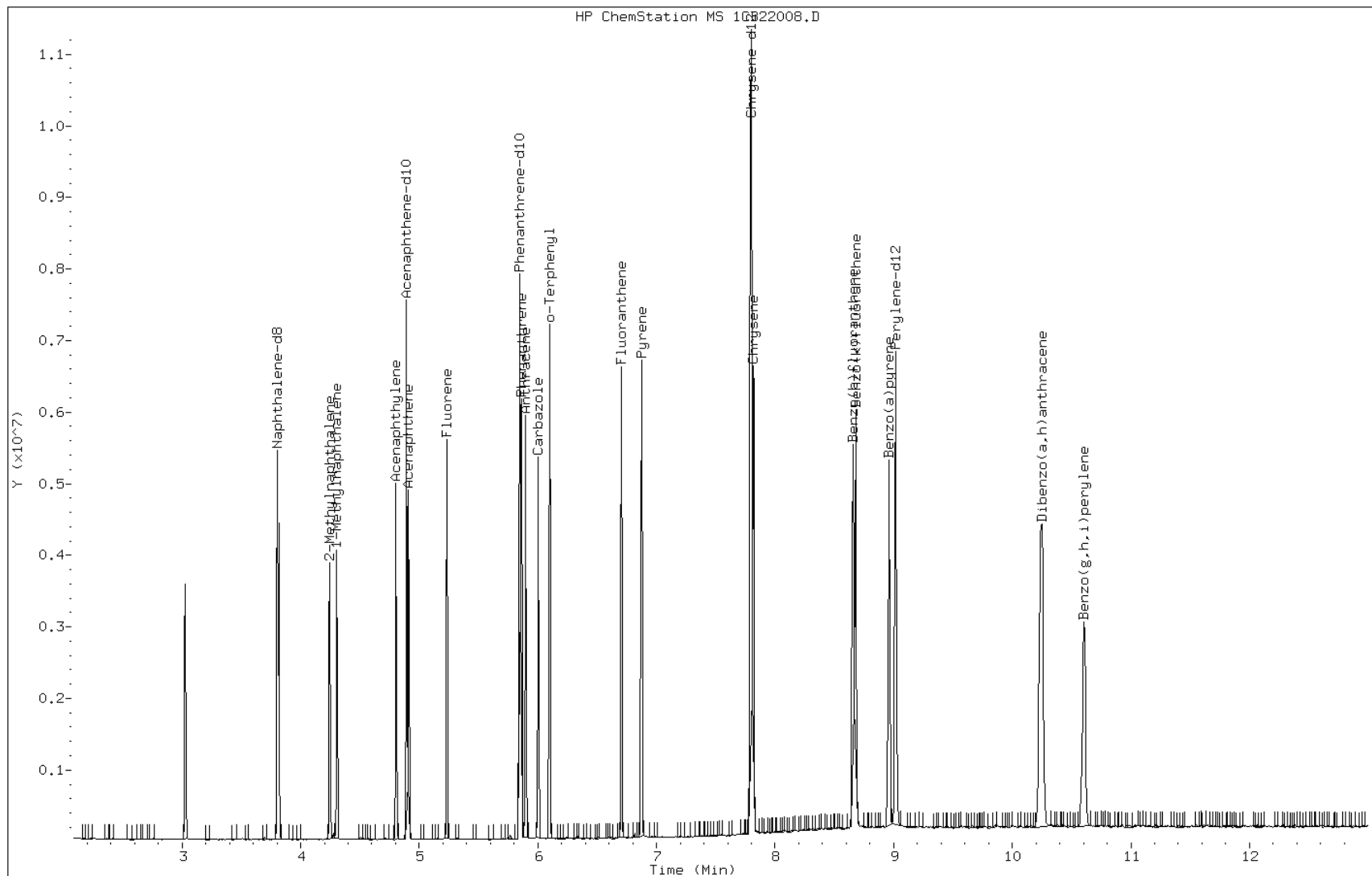
Date: 22-FEB-2013 13:29

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512373

Operator: SCC

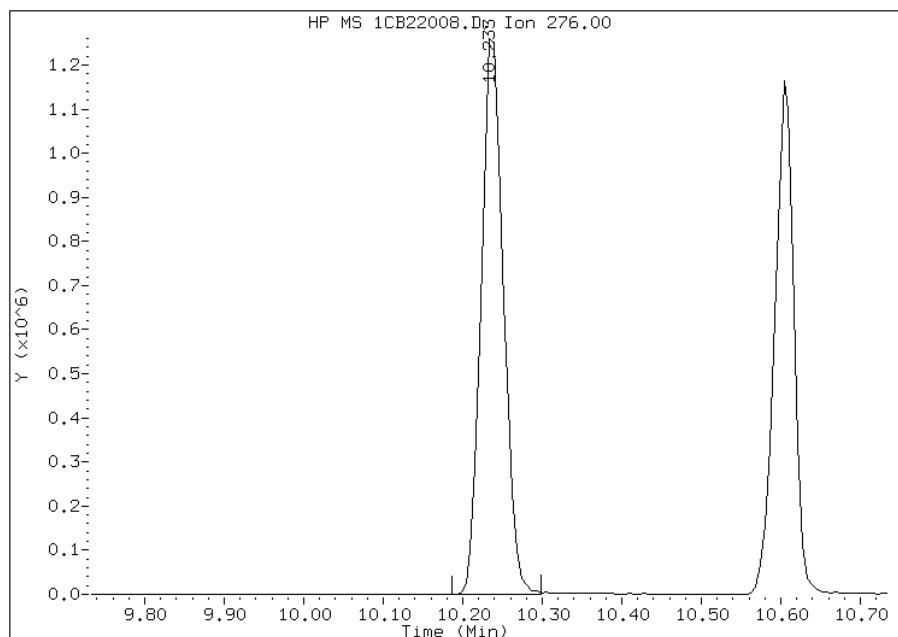


Manual Integration Report

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

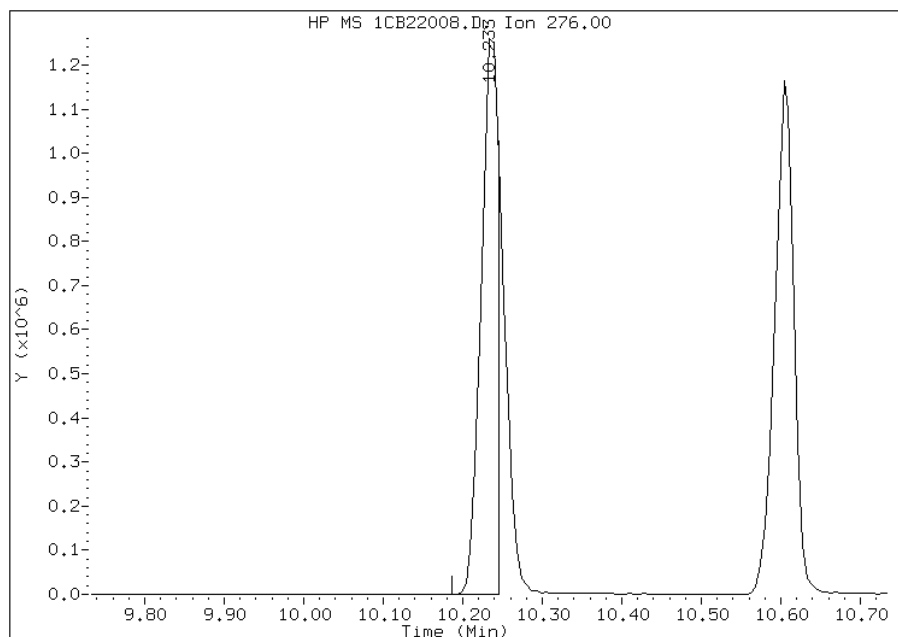
Processing Integration Results

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

Semivolatiles 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

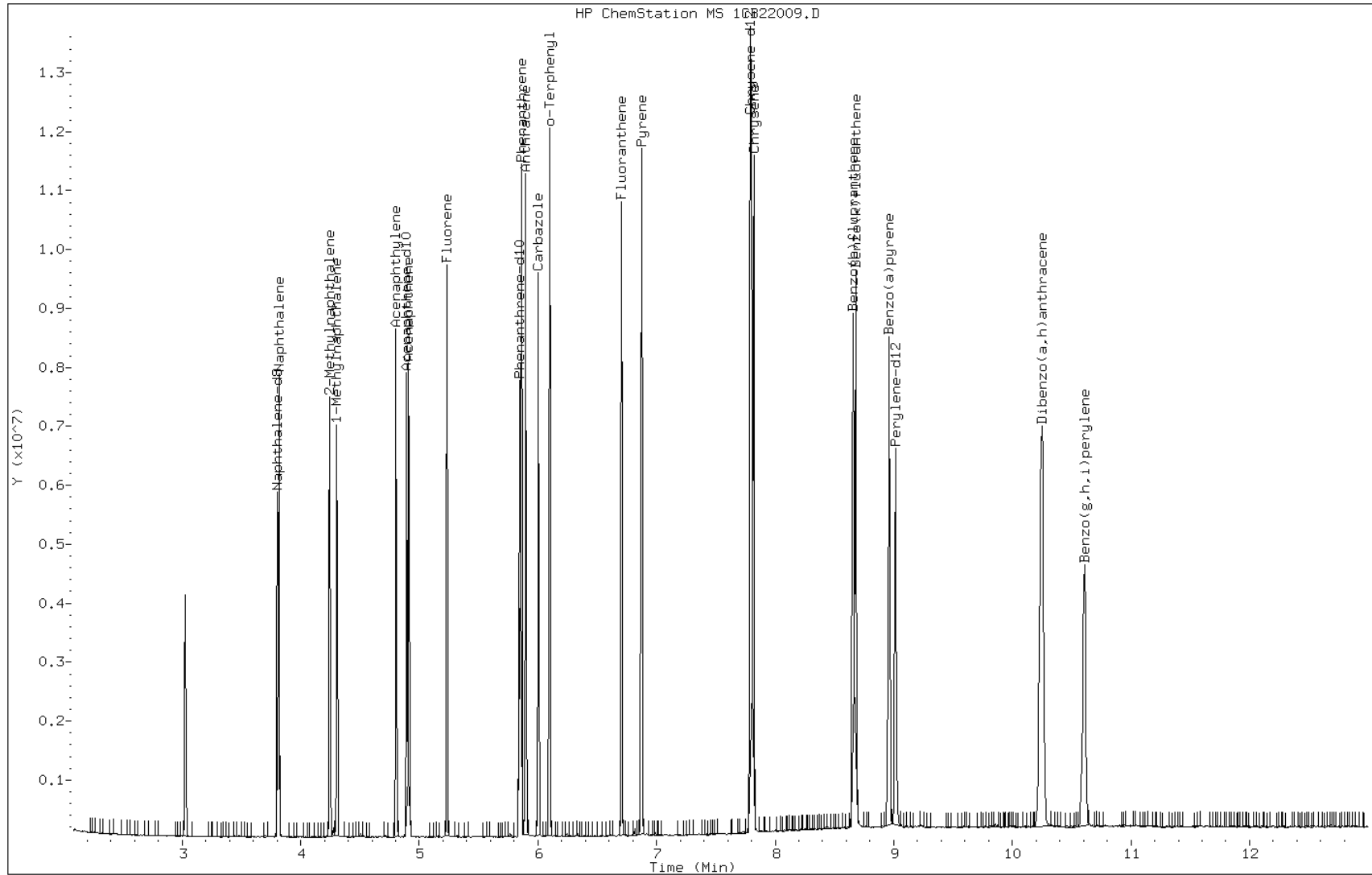
Date: 22-FEB-2013 13:48

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1512374

Operator: SCC

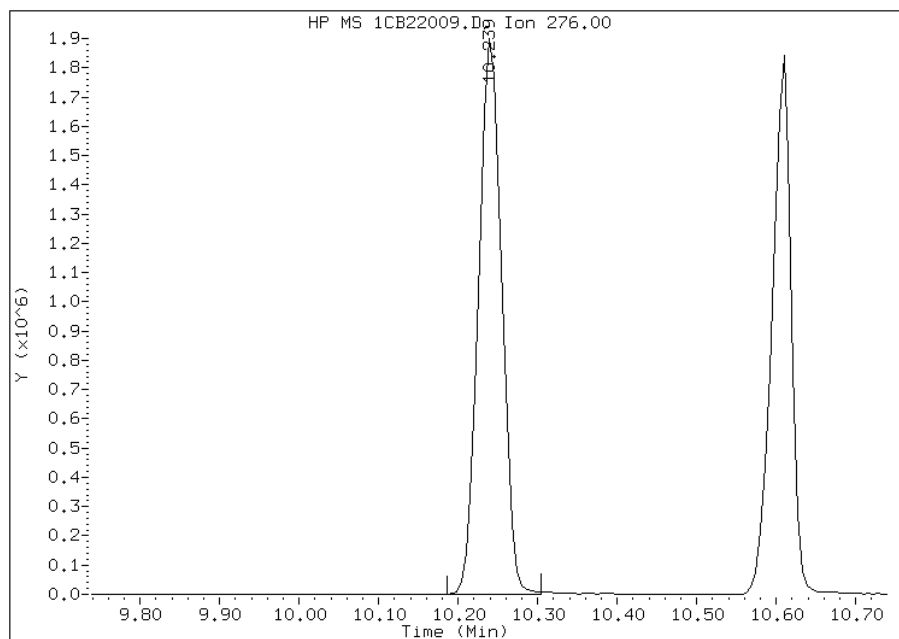


Manual Integration Report

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

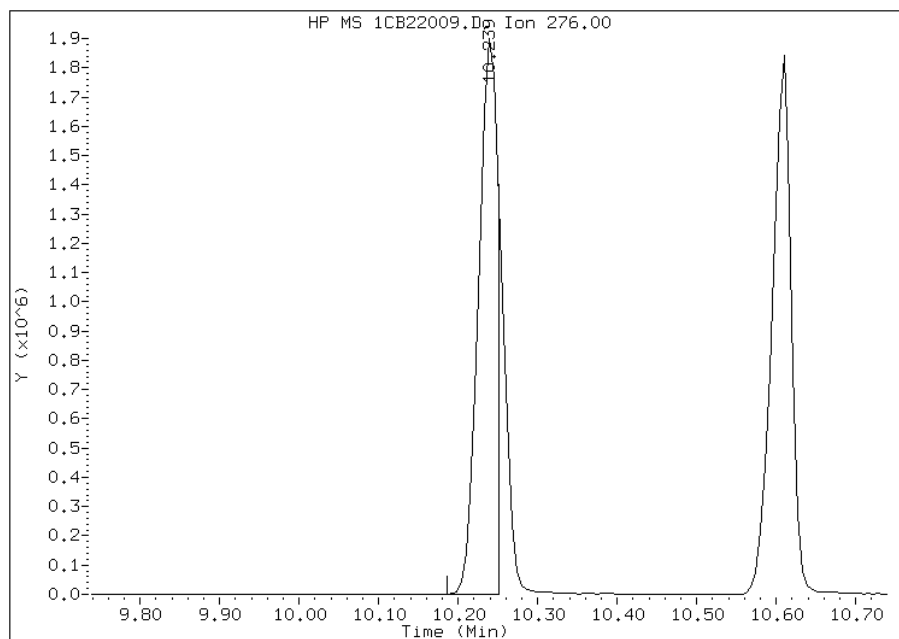
Processing Integration Results

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.: 680-88176-1
 SDG No.: 68088176-1
 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
 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

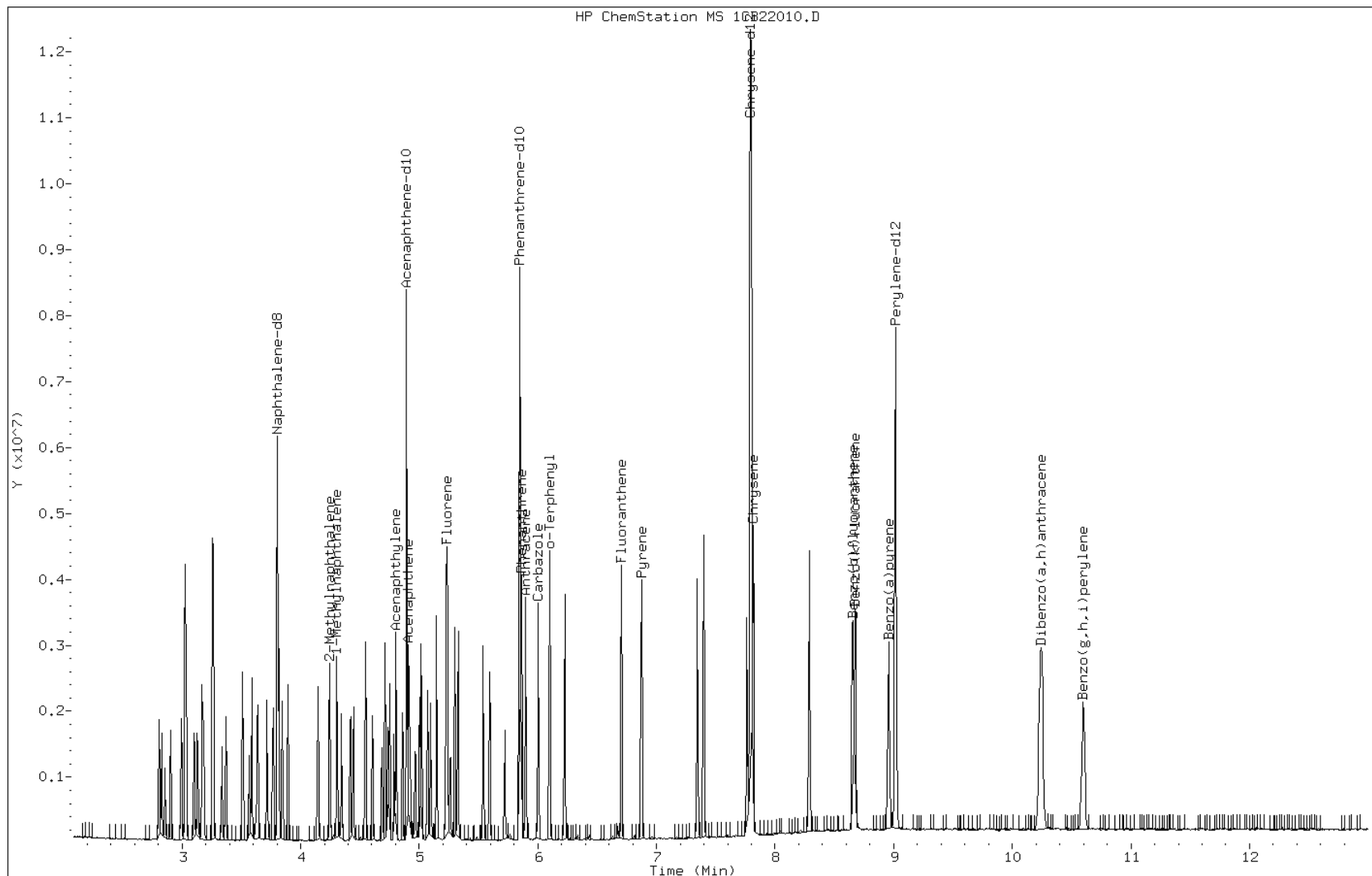
Date: 22-FEB-2013 14:06

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC

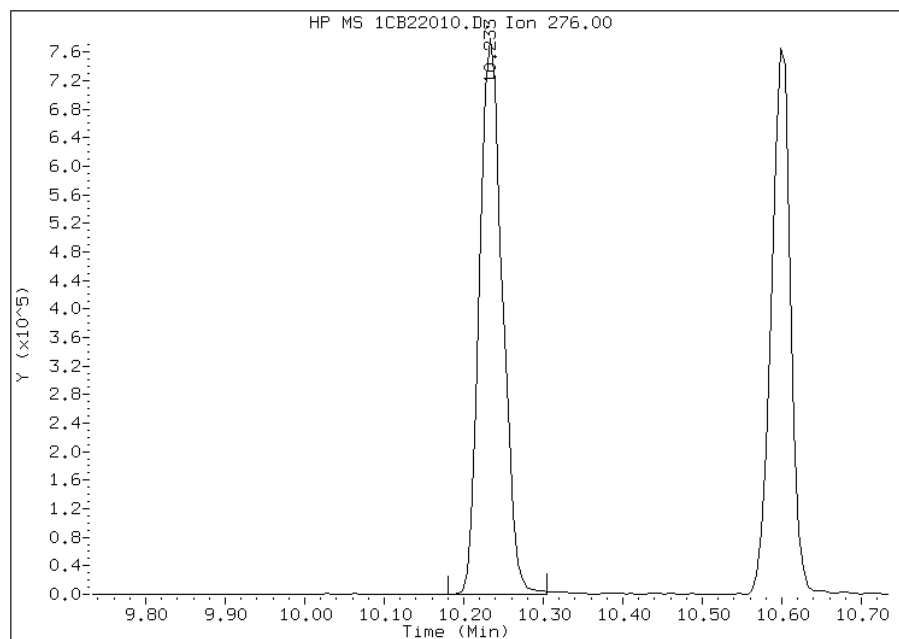


Manual Integration Report

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

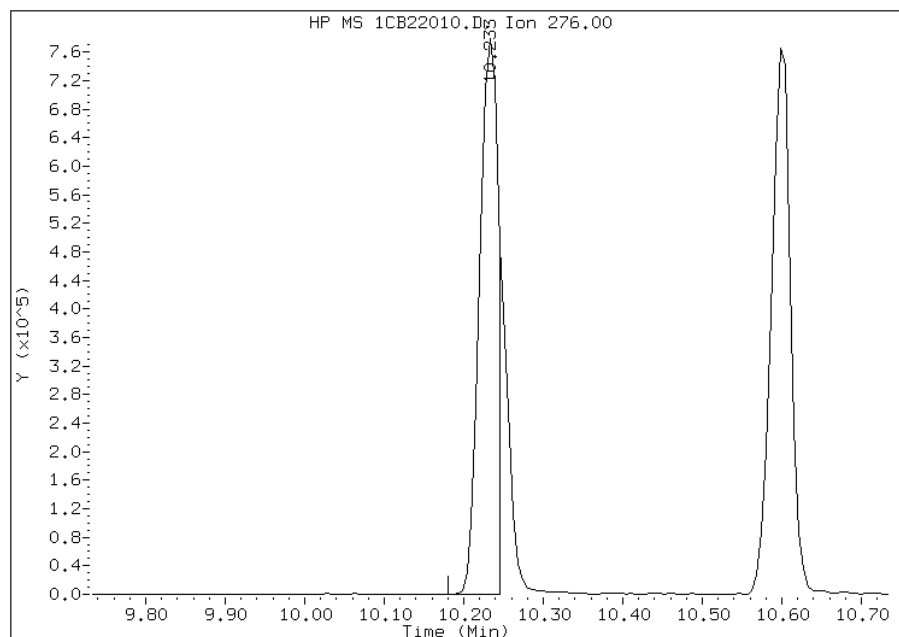
Processing Integration Results

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.: 680-88176-1
 SDG No.: 68088176-1
 Lab Sample ID: CCVIS 660-135469/3 Calibration Date: 03/15/2013 14:42
 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: 1CC15003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.045	0.0000	20100	20000	0.3	20.0
2-Methylnaphthalene	Ave	0.6946	0.6902	0.0000	19900	20000	-0.6	20.0
1-Methylnaphthalene	Ave	0.6326	0.6596	0.0000	20900	20000	4.3	20.0
Acenaphthylene	Ave	1.613	1.591	0.0000	19700	20000	-1.4	20.0
Acenaphthene	Ave	1.002	0.9601	0.0000	19200	20000	-4.2	20.0
Fluorene	Ave	1.268	1.232	0.0000	19400	20000	-2.8	20.0
Phenanthrene	Ave	1.157	1.123	0.0000	19400	20000	-2.9	20.0
Anthracene	Ave	1.131	1.167	0.0000	20600	20000	3.2	20.0
Carbazole	Ave	1.006	0.996	0.0000	19800	20000	-1.0	20.0
Fluoranthene	Ave	1.267	1.251	0.0000	19700	20000	-1.3	20.0
Pyrene	Ave	1.075	1.141	0.0000	21200	20000	6.1	20.0
Benzo[a]anthracene	Ave	1.154	1.083	0.0000	18800	20000	-6.2	20.0
Chrysene	Ave	1.155	1.093	0.0000	18900	20000	-5.4	20.0
Benzo[b]fluoranthene	Ave	1.045	1.118	0.0000	21400	20000	7.0	20.0
Benzo[k]fluoranthene	Ave	1.072	1.074	0.0000	20000	20000	0.2	20.0
Benzo[a]pyrene	Ave	1.015	1.054	0.0000	20800	20000	3.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	1.021	0.0000	21400	20000	6.9	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.9060	0.0000	19400	20000	-3.0	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9687	0.0000	19400	20000	-3.1	20.0
o-Terphenyl	Ave	0.6039	0.6042	0.0000	20000	20000	0.0	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15003.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 15-MAR-2013 14:42
 Operator : SCC
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 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	3.751	3.751	(1.000)	946459	40.0000	(H)
* 6 Acenaphthene-d10	164	4.839	4.839	(1.000)	734532	40.0000	(H)
* 10 Phenanthrene-d10	188	5.786	5.786	(1.000)	1374424	40.0000	(H)
\$ 14 o-Terphenyl	230	6.039	6.039	(1.044)	415232	20.0000	20.0097(H)
* 18 Chrysene-d12	240	7.733	7.733	(1.000)	1665181	40.0000	(H)
* 23 Perylene-d12	264	8.927	8.927	(1.000)	1675707	40.0000	(H)
2 Naphthalene	128	3.763	3.763	(1.003)	494462	20.0000	20.0675(H)
3 2-Methylnaphthalene	142	4.186	4.186	(1.116)	326601	20.0000	19.8712(H)
4 1-Methylnaphthalene	142	4.251	4.251	(1.133)	312154	20.0000	20.8531(H)
5 Acenaphthylene	152	4.751	4.751	(0.982)	584214	20.0000	19.7276(H)
7 Acenaphthene	154	4.857	4.857	(1.004)	352616	20.0000	19.1568
9 Fluorene	166	5.174	5.174	(1.069)	452312	20.0000	19.4302(H)
11 Phenanthrene	178	5.804	5.804	(1.003)	772074	20.0000	19.4270(H)
12 Anthracene	178	5.839	5.839	(1.009)	801940	20.0000	20.6325(H)
13 Carbazole	167	5.945	5.945	(1.027)	684126	20.0000	19.8006(H)
15 Fluoranthene	202	6.639	6.639	(1.147)	859565	20.0000	19.7498(H)
16 Pyrene	202	6.810	6.810	(0.881)	950012	20.0000	21.2296(H)
17 Benzo(a)anthracene	228	7.727	7.727	(0.999)	901945	20.0000	18.7669(H)
19 Chrysene	228	7.751	7.751	(1.002)	910383	20.0000	18.9282(H)
20 Benzo(b)fluoranthene	252	8.580	8.580	(0.961)	936862	20.0000	21.3932(H)
21 Benzo(k)fluoranthene	252	8.604	8.604	(0.964)	900124	20.0000	20.0364(H)
22 Benzo(a)pyrene	252	8.874	8.874	(0.994)	882984	20.0000	20.7581(H)
24 Indeno(1,2,3-cd)pyrene	276	10.109	10.109	(1.132)	855733	20.0000	21.3852(MH)
25 Dibenzo(a,h)anthracene	278	10.127	10.127	(1.134)	759115	20.0000	19.3946(H)
26 Benzo(g,h,i)perylene	276	10.462	10.462	(1.172)	811634	20.0000	19.3896(H)

QC Flag Legend

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

Data File: 1CC15003.D

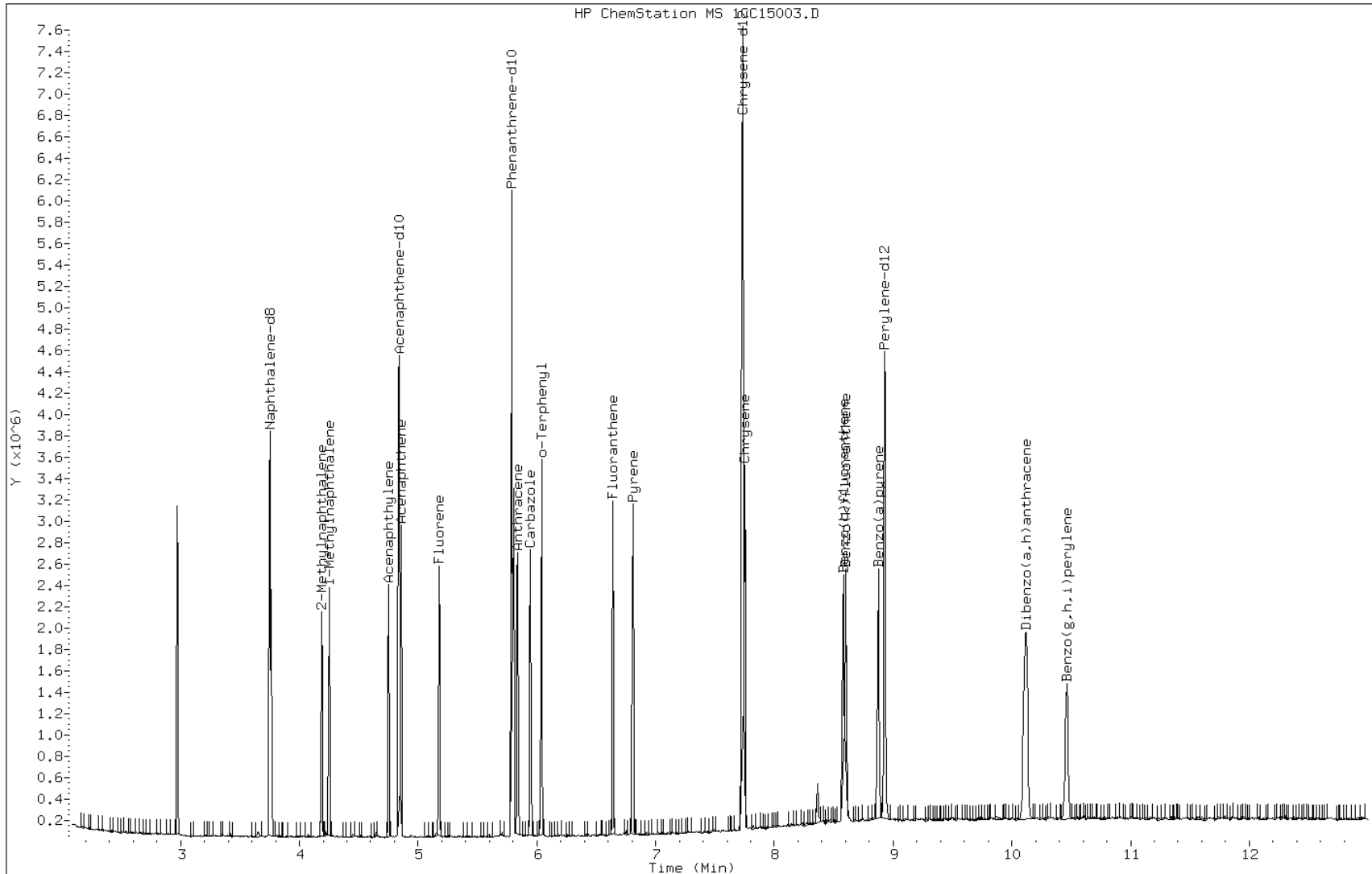
Date: 15-MAR-2013 14:42

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

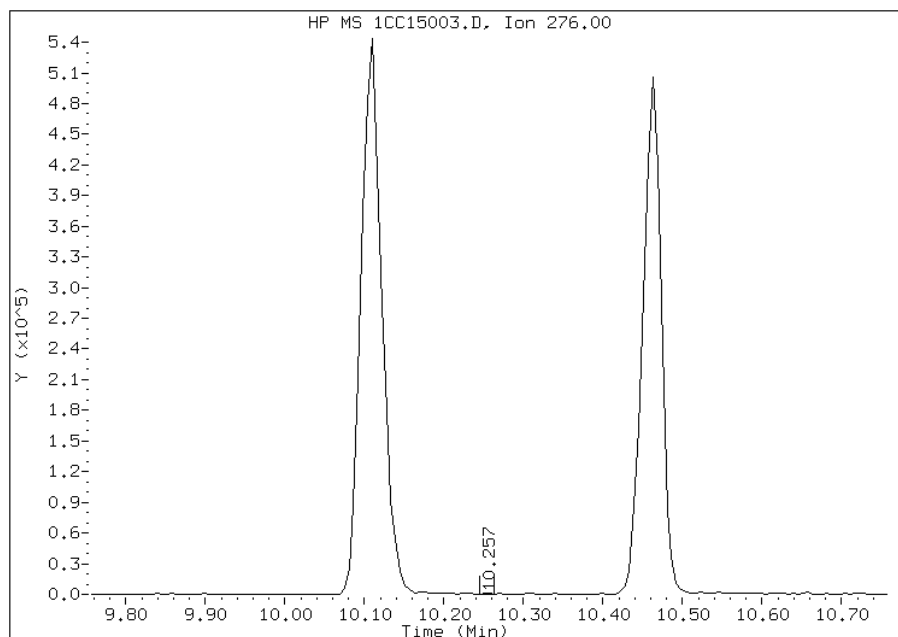


Manual Integration Report

Data File: 1CC15003.D
Inj. Date and Time: 15-MAR-2013 14:42
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/15/2013

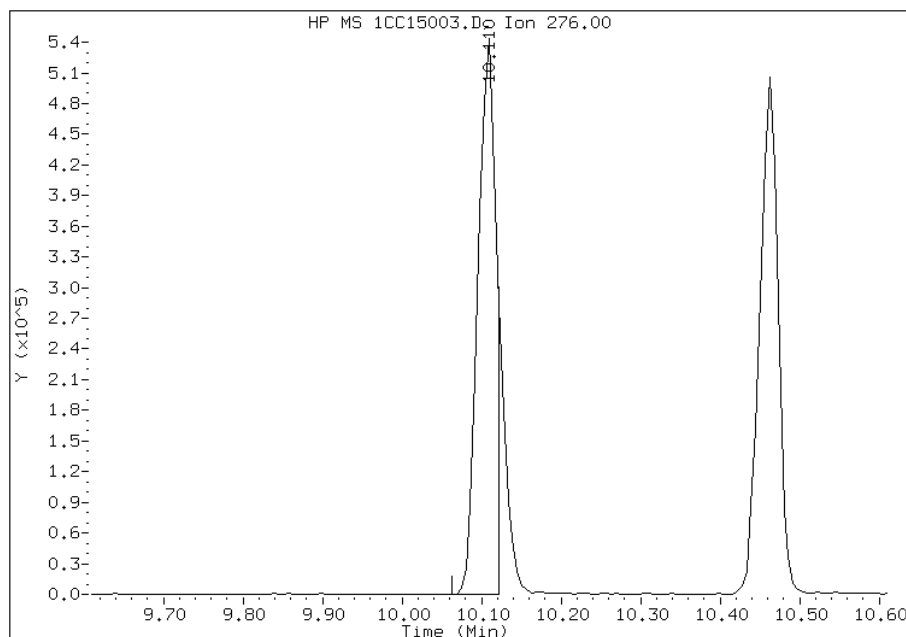
Processing Integration Results

RT: 10.26
Response: 660
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.11
Response: 855733
Amount: 21
Conc: 21



Manually Integrated By: cantins
Modification Date: 15-Mar-2013 15:05
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Lab Sample ID: CCVIS 660-135624/3 Calibration Date: 03/20/2013 10:36
 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: 1CC20003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.068	0.0000	20500	20000	2.5	20.0
2-Methylnaphthalene	Ave	0.6946	0.6948	0.0000	20000	20000	0.0	20.0
1-Methylnaphthalene	Ave	0.6326	0.6446	0.0000	20400	20000	1.9	20.0
Acenaphthylene	Ave	1.613	1.622	0.0000	20100	20000	0.6	20.0
Acenaphthene	Ave	1.002	0.999	0.0000	19900	20000	-0.4	20.0
Fluorene	Ave	1.268	1.293	0.0000	20400	20000	2.0	20.0
Phenanthrene	Ave	1.157	1.124	0.0000	19400	20000	-2.8	20.0
Anthracene	Ave	1.131	1.174	0.0000	20800	20000	3.8	20.0
Carbazole	Ave	1.006	1.027	0.0000	20400	20000	2.1	20.0
Fluoranthene	Ave	1.267	1.278	0.0000	20200	20000	0.9	20.0
Pyrene	Ave	1.075	1.122	0.0000	20900	20000	4.4	20.0
Benzo[a]anthracene	Ave	1.154	1.093	0.0000	18900	20000	-5.3	20.0
Chrysene	Ave	1.155	1.101	0.0000	19100	20000	-4.7	20.0
Benzo[b]fluoranthene	Ave	1.045	1.123	0.0000	21500	20000	7.4	20.0
Benzo[k]fluoranthene	Ave	1.072	1.063	0.0000	19800	20000	-0.9	20.0
Benzo[a]pyrene	Ave	1.015	1.057	0.0000	20800	20000	4.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.7665	0.0000	16000	20000	-19.8	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8396	0.0000	18000	20000	-10.1	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9106	0.0000	18200	20000	-8.9	20.0
o-Terphenyl	Ave	0.6039	0.5964	0.0000	19700	20000	-1.3	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20003.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 20-MAR-2013 10:36
 Operator : SCC
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 3 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.745	3.745	(1.000)	962073	40.0000	(H)
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	727466	40.0000	(H)
* 10 Phenanthrene-d10	188	5.780	5.780	(1.000)	1356725	40.0000	(H)
\$ 14 o-Terphenyl	230	6.027	6.027	(1.043)	404556	20.0000	19.7496(H)
* 18 Chrysene-d12	240	7.721	7.721	(1.000)	1690793	40.0000	(H)
* 23 Perylene-d12	264	8.909	8.909	(1.000)	1664033	40.0000	(H)
2 Naphthalene	128	3.757	3.757	(1.003)	513541	20.0000	20.5035(H)
3 2-Methylnaphthalene	142	4.180	4.180	(1.116)	334245	20.0000	20.0062(H)
4 1-Methylnaphthalene	142	4.245	4.245	(1.133)	310082	20.0000	20.3785(H)
5 Acenaphthylene	152	4.745	4.745	(0.983)	589919	20.0000	20.1137(H)
7 Acenaphthene	154	4.851	4.851	(1.005)	363262	20.0000	19.9269(H)
9 Fluorene	166	5.169	5.169	(1.071)	470310	20.0000	20.3996(H)
11 Phenanthrene	178	5.792	5.792	(1.002)	762250	20.0000	19.4300(H)
12 Anthracene	178	5.827	5.827	(1.008)	796613	20.0000	20.7628(H)
13 Carbazole	167	5.933	5.933	(1.026)	696732	20.0000	20.4285(H)
15 Fluoranthene	202	6.633	6.633	(1.148)	866815	20.0000	20.1762(H)
16 Pyrene	202	6.798	6.798	(0.880)	948302	20.0000	20.8704(H)
17 Benzo(a)anthracene	228	7.715	7.715	(0.999)	924419	20.0000	18.9431(H)
19 Chrysene	228	7.739	7.739	(1.002)	930659	20.0000	19.0567(H)
20 Benzo(b)fluoranthene	252	8.562	8.562	(0.961)	934389	20.0000	21.4864(H)
21 Benzo(k)fluoranthene	252	8.586	8.586	(0.964)	884638	20.0000	19.8299(H)
22 Benzo(a)pyrene	252	8.857	8.857	(0.994)	879197	20.0000	20.8140(H)
24 Indeno(1,2,3-cd)pyrene	276	10.080	10.080	(1.131)	637704	20.0000	16.0483(MH)
25 Dibenzo(a,h)anthracene	278	10.098	10.098	(1.133)	698563	20.0000	17.9728(H)
26 Benzo(g,h,i)perylene	276	10.433	10.433	(1.171)	757670	20.0000	18.2274(H)

QC Flag Legend

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

Data File: 1CC20003.D

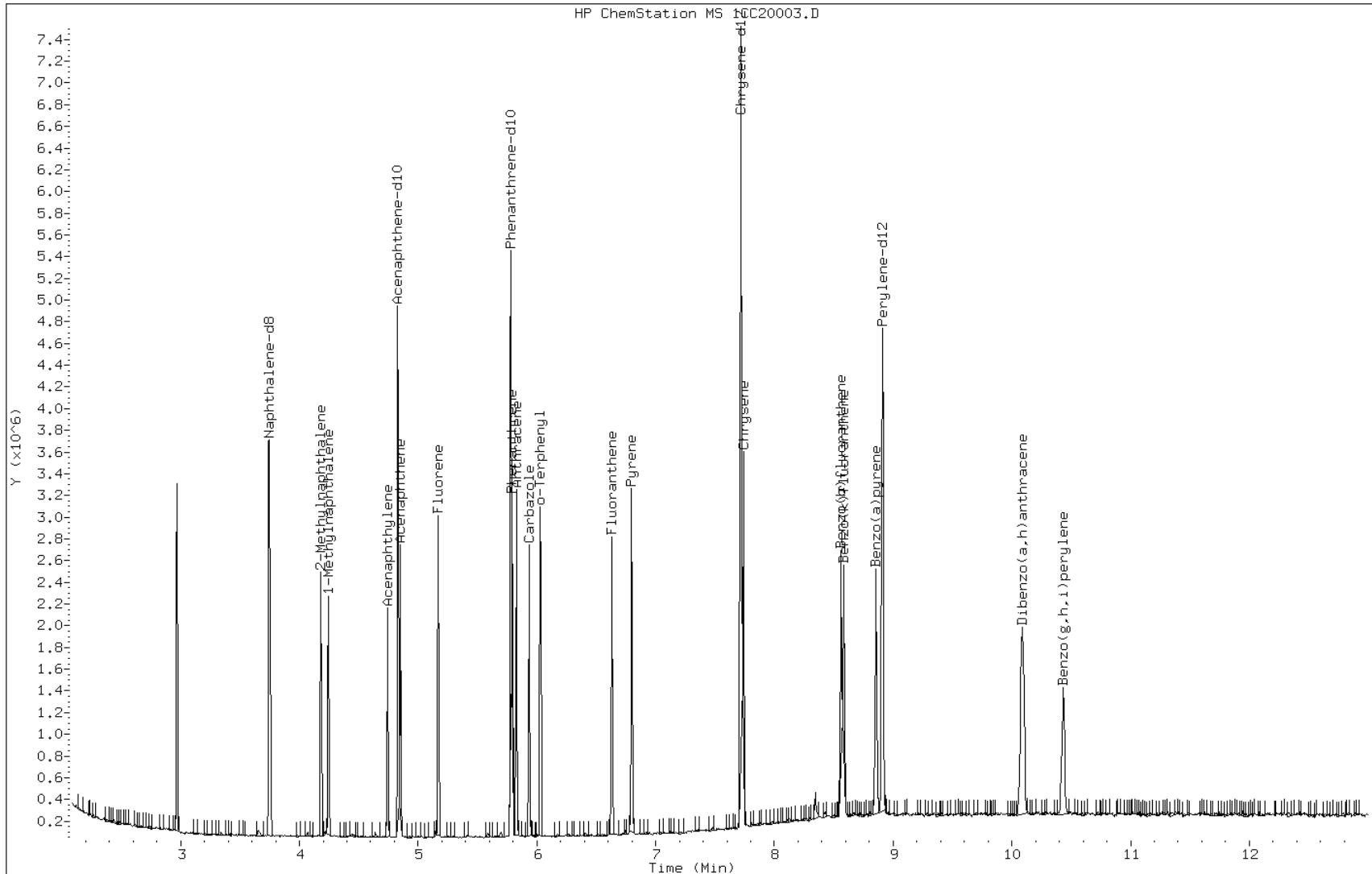
Date: 20-MAR-2013 10:36

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

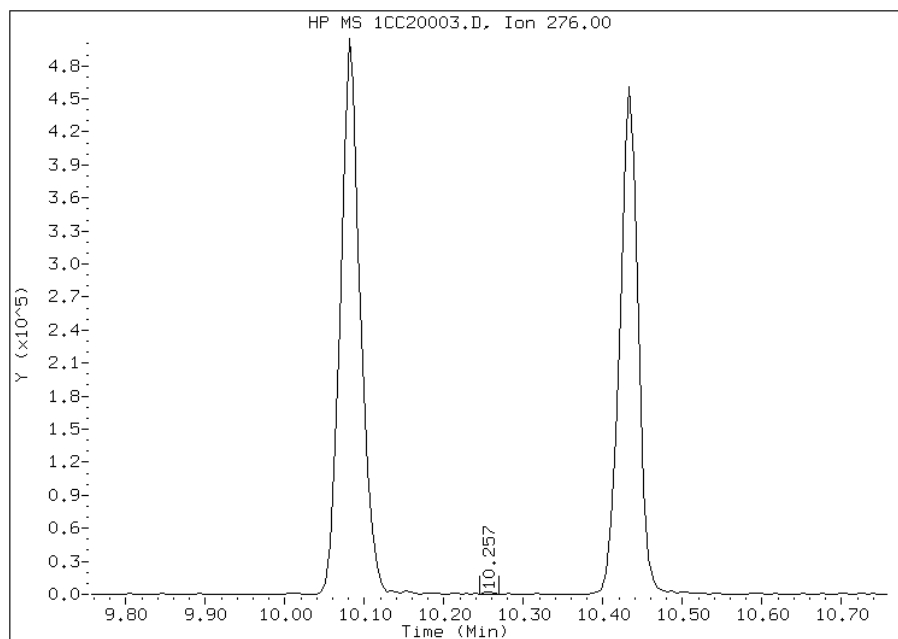


Manual Integration Report

Data File: 1CC20003.D
Inj. Date and Time: 20-MAR-2013 10:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

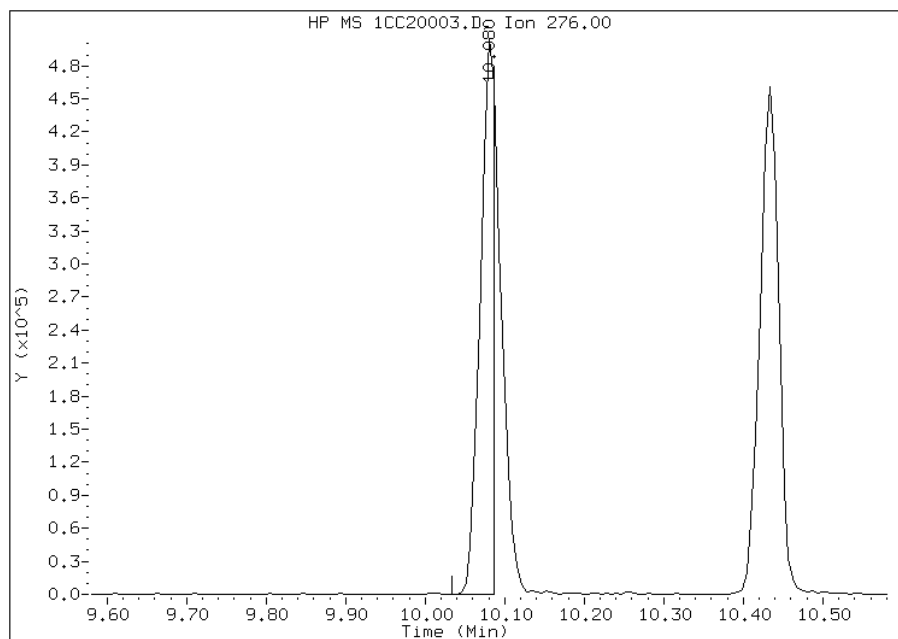
Processing Integration Results

RT: 10.26
Response: 1705
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.08
Response: 637704
Amount: 16
Conc: 16



Manually Integrated By: cantins
Modification Date: 20-Mar-2013 10:52
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Lab Sample ID: CCVIS 660-135643/4 Calibration Date: 03/21/2013 11:50
 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: 1CC21004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.041	1.042	0.0000	20000	20000	0.0	20.0
2-Methylnaphthalene	Ave	0.6946	0.7138	0.0000	20600	20000	2.8	20.0
1-Methylnaphthalene	Ave	0.6326	0.6683	0.0000	21100	20000	5.6	20.0
Acenaphthylene	Ave	1.613	1.622	0.0000	20100	20000	0.6	20.0
Acenaphthene	Ave	1.002	0.9767	0.0000	19500	20000	-2.6	20.0
Fluorene	Ave	1.268	1.296	0.0000	20400	20000	2.2	20.0
Phenanthrene	Ave	1.157	1.140	0.0000	19700	20000	-1.4	20.0
Anthracene	Ave	1.131	1.132	0.0000	20000	20000	0.0	20.0
Carbazole	Ave	1.006	1.010	0.0000	20100	20000	0.4	20.0
Fluoranthene	Ave	1.267	1.270	0.0000	20000	20000	0.2	20.0
Pyrene	Ave	1.075	1.102	0.0000	20500	20000	2.5	20.0
Benzo[a]anthracene	Ave	1.154	1.054	0.0000	18300	20000	-8.7	20.0
Chrysene	Ave	1.155	1.041	0.0000	18000	20000	-9.9	20.0
Benzo[b]fluoranthene	Ave	1.045	1.007	0.0000	19300	20000	-3.6	20.0
Benzo[k]fluoranthene	Ave	1.072	1.124	0.0000	21000	20000	4.8	20.0
Benzo[a]pyrene	Ave	1.015	1.018	0.0000	20000	20000	0.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.9552	0.999	0.0000	20900	20000	4.6	20.0
Dibenz(a,h)anthracene	Ave	0.9343	0.8764	0.0000	18800	20000	-6.2	20.0
Benzo[g,h,i]perylene	Ave	0.999	0.9735	0.0000	19500	20000	-2.6	20.0
o-Terphenyl	Ave	0.6039	0.5978	0.0000	19800	20000	-1.0	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21004.D
 Lab Smp Id: CCVIS-1512372
 Inj Date : 21-MAR-2013 11:50
 Operator : SCC
 Smp Info : CCVIS-1512372
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\a-bFASTPAHi-m.m
 Meth Date : 21-Mar-2013 12:06 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	3.739	3.739	(1.000)	840044	40.0000	(H)
* 6 Acenaphthene-d10	164	4.827	4.827	(1.000)	651490	40.0000	(H)
* 10 Phenanthrene-d10	188	5.774	5.774	(1.000)	1219756	40.0000	(H)
\$ 14 o-Terphenyl	230	6.027	6.027	(1.044)	364578	20.0000	19.7965(H)
* 18 Chrysene-d12	240	7.715	7.715	(1.000)	1556594	40.0000	(H)
* 23 Perylene-d12	264	8.898	8.898	(1.000)	1584646	40.0000	(H)
2 Naphthalene	128	3.751	3.751	(1.003)	437723	20.0000	20.0152(H)
3 2-Methylnaphthalene	142	4.180	4.180	(1.118)	299817	20.0000	20.5524(H)
4 1-Methylnaphthalene	142	4.239	4.239	(1.134)	280685	20.0000	21.1261(H)
5 Acenaphthylene	152	4.739	4.739	(0.982)	528374	20.0000	20.1162(H)
7 Acenaphthene	154	4.845	4.845	(1.004)	318158	20.0000	19.4880
9 Fluorene	166	5.162	5.162	(1.069)	422157	20.0000	20.4464(H)
11 Phenanthrene	178	5.792	5.792	(1.003)	695478	20.0000	19.7187(H)
12 Anthracene	178	5.821	5.821	(1.008)	690319	20.0000	20.0128(H)
13 Carbazole	167	5.933	5.933	(1.028)	615983	20.0000	20.0890(H)
15 Fluoranthene	202	6.627	6.627	(1.148)	774249	20.0000	20.0453(H)
16 Pyrene	202	6.792	6.792	(0.880)	857546	20.0000	20.5001(H)
17 Benzo(a)anthracene	228	7.709	7.709	(0.999)	819981	20.0000	18.2516(H)
19 Chrysene	228	7.733	7.733	(1.002)	810416	20.0000	18.0252(H)
20 Benzo(b)fluoranthene	252	8.551	8.551	(0.961)	798250	20.0000	19.2754(H)
21 Benzo(k)fluoranthene	252	8.574	8.574	(0.964)	890639	20.0000	20.9646(H)
22 Benzo(a)pyrene	252	8.845	8.845	(0.994)	806466	20.0000	20.0487(H)
24 Indeno(1,2,3-cd)pyrene	276	10.068	10.068	(1.132)	791649	20.0000	20.9206(MH)
25 Dibenzo(a,h)anthracene	278	10.086	10.086	(1.134)	694396	20.0000	18.7606(H)
26 Benzo(g,h,i)perylene	276	10.421	10.421	(1.171)	771294	20.0000	19.4847(H)

QC Flag Legend

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

Data File: 1CC21004.D

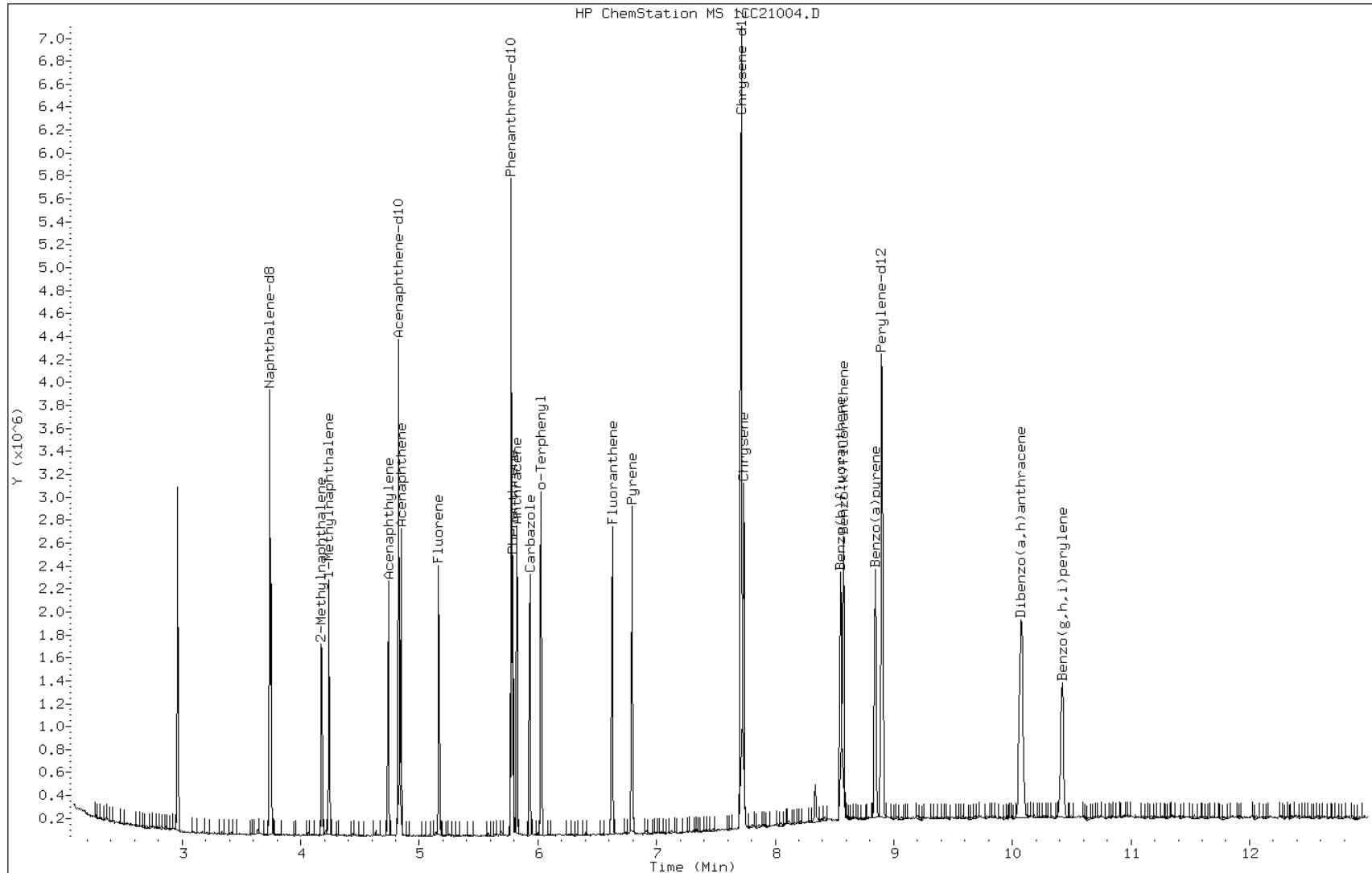
Date: 21-MAR-2013 11:50

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1512372

Operator: SCC

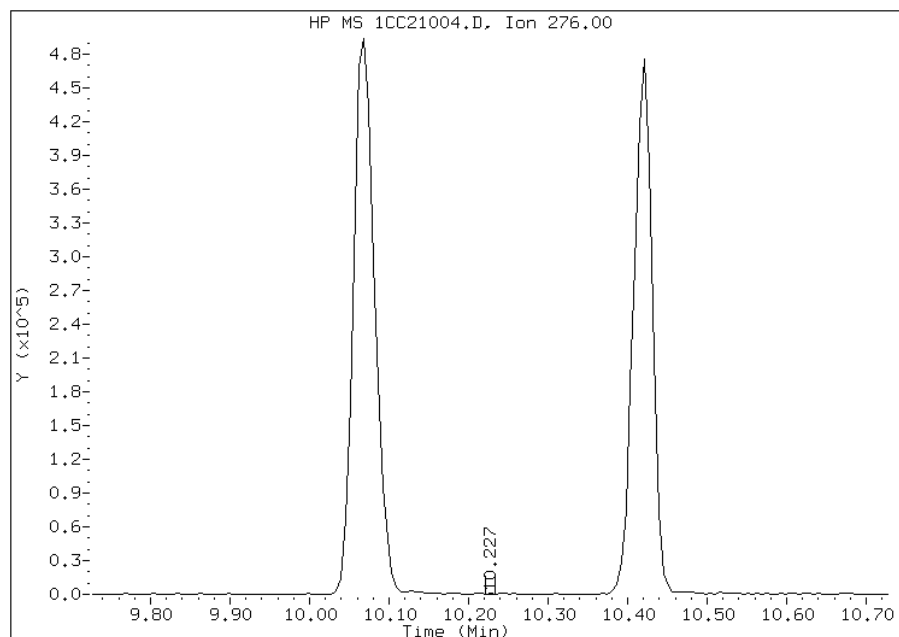


Manual Integration Report

Data File: 1CC21004.D
Inj. Date and Time: 21-MAR-2013 11:50
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

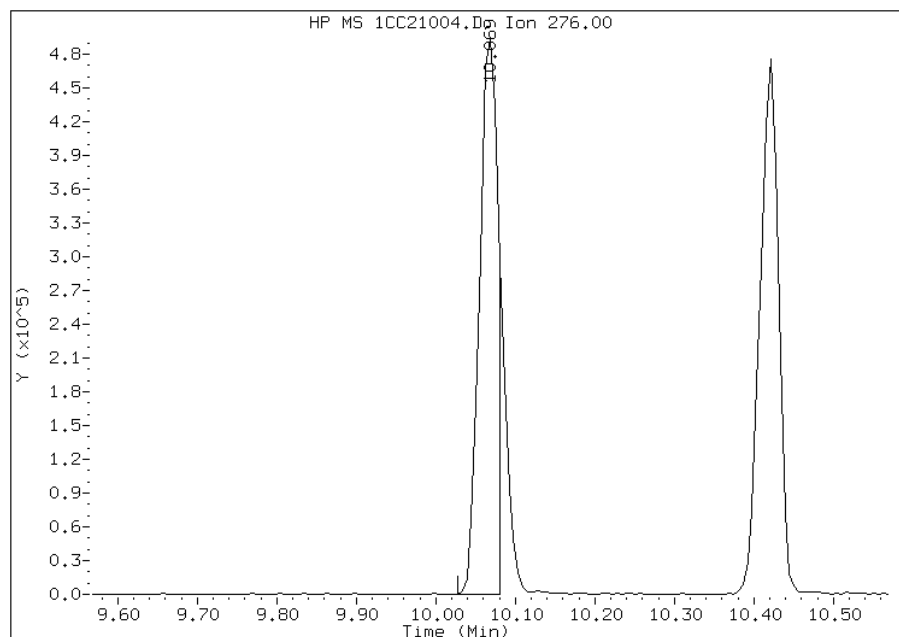
Processing Integration Results

RT: 10.23
Response: 461
Amount: 0
Conc: 0



Manual Integration Results

RT: 10.07
Response: 791649
Amount: 21
Conc: 21



Manually Integrated By: cantins
Modification Date: 21-Mar-2013 12:08
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

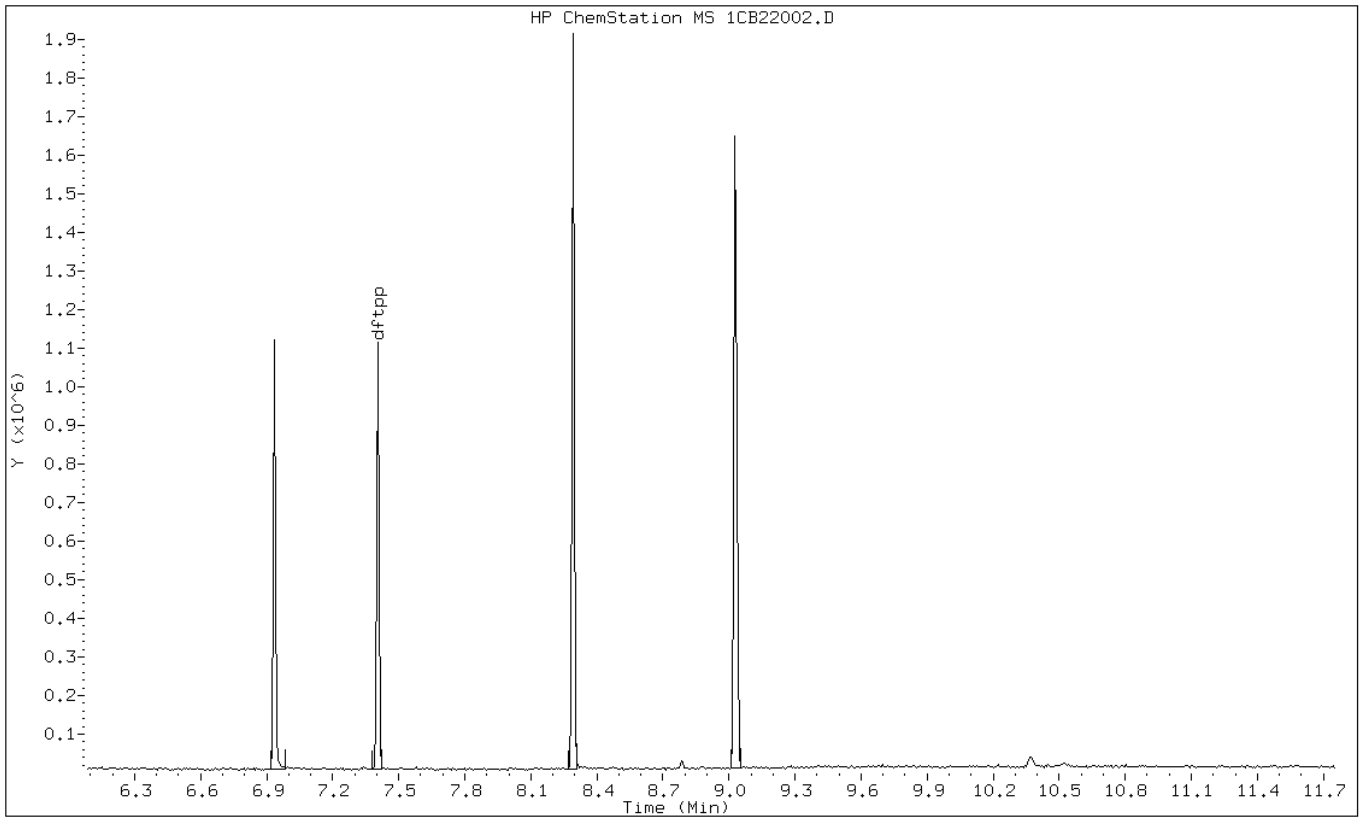
Date: 22-FEB-2013 11:41

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CB22002.D

Date: 22-FEB-2013 11:41

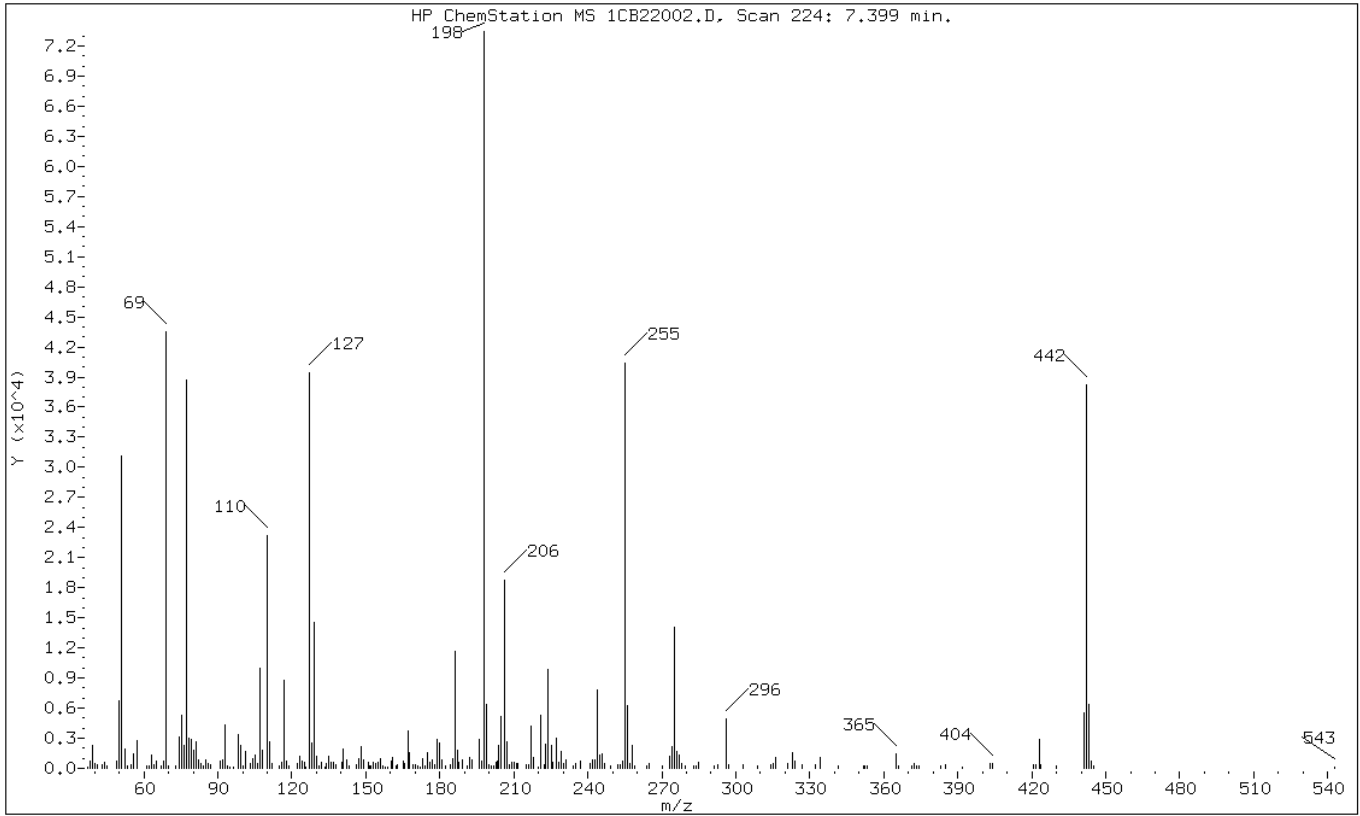
Client ID: DFTPP

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\1C031513.b\1CC15002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 15-MAR-2013 14:13
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.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				
7.345	7.469	-0.124	198	136064			50.00-	0.00	100.00
7.345	7.469	-0.124	51	41336			10.00-	80.00	30.38
7.345	7.469	-0.124	68	0	0.0	0.0	0.00-	2.00	0.00
7.345	7.469	-0.124	69	50832			0.00-	0.00	37.36
7.345	7.469	-0.124	70	161			0.00-	2.00	0.32
7.345	7.469	-0.124	127	56688			10.00-	80.00	41.66
7.345	7.469	-0.124	197	1129			0.00-	2.00	0.83
7.345	7.469	-0.124	442	134336			50.00-	0.00	98.73
7.345	7.469	-0.124	199	8450			5.00-	9.00	6.21
7.345	7.469	-0.124	275	34808			10.00-	60.00	25.58
7.345	7.469	-0.124	365	7036			1.00-	0.00	5.17
7.345	7.469	-0.124	441	20720			0.01-	99.99	76.81
7.345	7.469	-0.124	443	26976			15.00-	24.00	20.08

Data File: 1CC15002.D

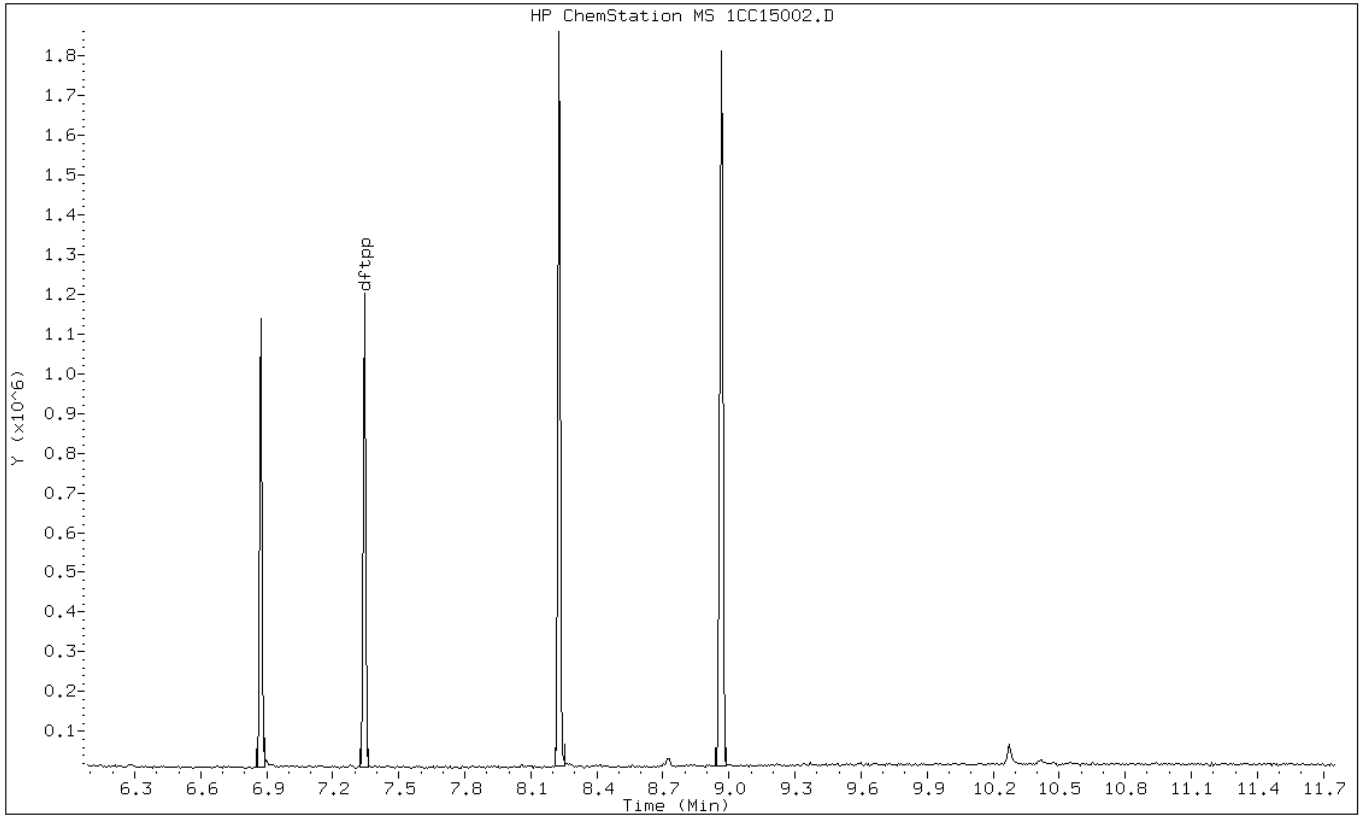
Date: 15-MAR-2013 14:13

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC15002.D

Date: 15-MAR-2013 14:13

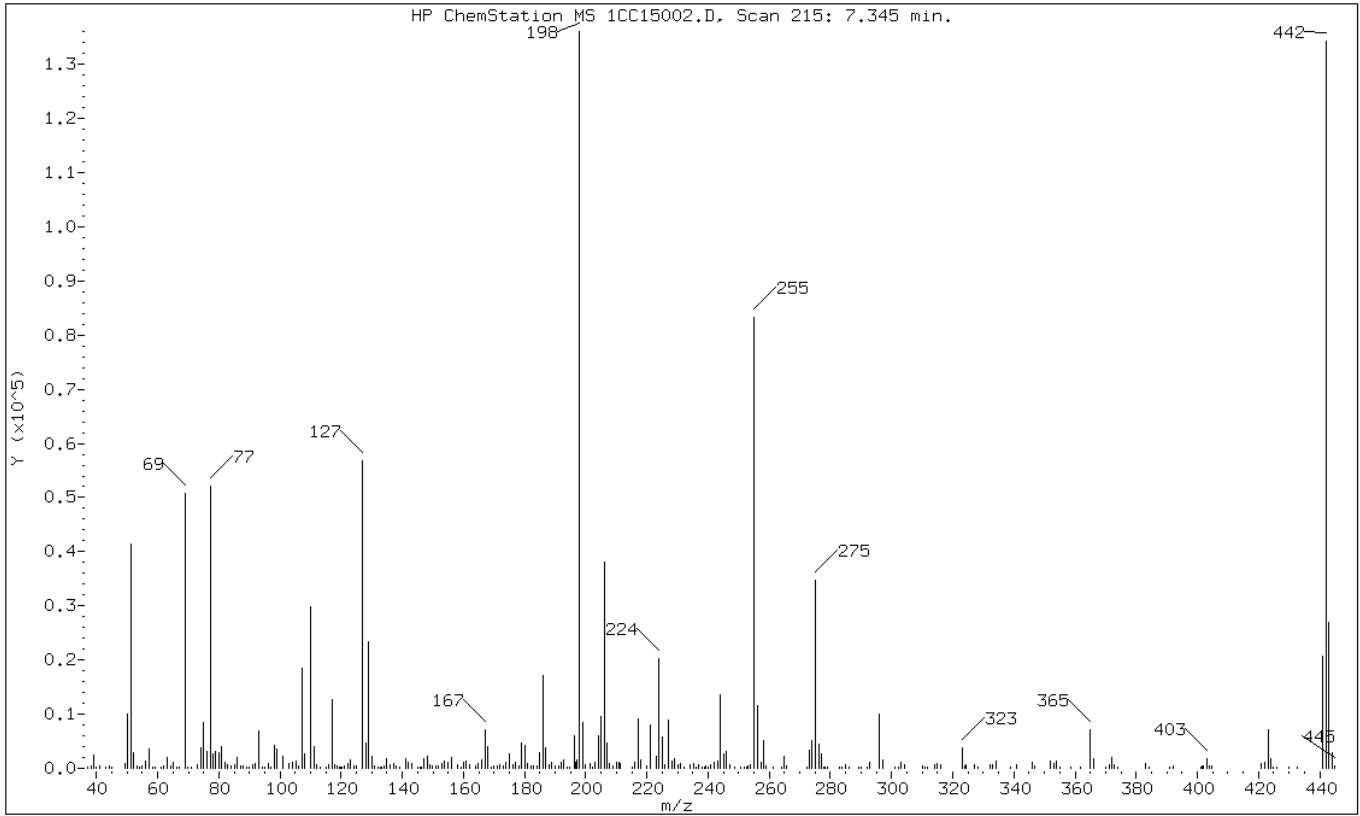
Client ID: DFTPP

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	30.38
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	37.36
70	Less than 2.00% of mass 69	0.12 (0.32)
127	10.00 - 80.00% of mass 198	41.66
197	Less than 2.00% of mass 198	0.83
442	Greater than 50.00% of mass 198	98.73
199	5.00 - 9.00% of mass 198	6.21
275	10.00 - 60.00% of mass 198	25.58
365	Greater than 1.00% of mass 198	5.17
441	Present, but less than mass 443	15.23
443	15.00 - 24.00% of mass 442	19.83 (20.08)

Data File: 1CC15002.D

Date: 15-MAR-2013 14:13

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15002.D

Spectrum: HP ChemStation MS 1CC15002.D, Scan 215: 7.345 min.

Location of Maximum: 198.00

Number of points: 289

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	281	119.80	193	194.90	311	278.20	261
38.20	500	120.20	222	196.10	6106	279.10	251
39.10	2374	121.10	386	196.70	1129	282.80	288
39.90	322	122.10	927	197.10	1477	283.90	210
41.00	522	123.10	1624	198.00	136064	285.10	626
43.00	277	124.00	522	199.10	8450	286.10	325
44.10	522	125.10	537	200.00	666	289.10	232
45.00	183	127.10	56688	201.40	844	290.00	151
49.20	900	128.10	4622	202.10	294	291.90	239
50.10	10031	129.00	23344	203.10	1182	292.90	1157
51.10	41336	130.00	2321	204.00	5903	296.00	10066
52.20	2790	131.00	477	205.10	9638	297.00	1533
53.20	349	132.10	167	206.10	38120	301.00	197
54.00	255	132.70	227	207.10	4688	302.10	284
54.90	506	133.30	207	207.90	802	303.00	1027
56.00	1303	134.10	374	208.90	476	304.20	705
57.00	3598	135.00	1705	210.00	1096	310.00	487
58.20	243	136.10	706	210.70	1099	311.00	166
59.00	217	137.00	899	211.10	910	311.90	313
61.10	311	137.90	396	215.00	247	314.00	627
62.10	386	139.10	185	215.90	1150	315.00	822
63.10	2115	141.00	1844	217.00	9117	316.10	585
64.10	453	142.10	1122	218.00	1484	323.00	3854
65.00	1141	143.10	892	219.80	422	323.80	338
66.20	233	145.10	236	221.10	8092	324.20	581
66.90	168	145.80	194	223.00	2162	326.90	746
69.00	50832	146.30	280	224.00	20256	328.30	216
69.90	161	147.00	1782	225.00	5708	332.20	656
71.10	278	148.10	2297	225.90	674	332.90	610
73.10	657	149.00	681	227.00	8911	334.00	1349
74.10	3831	149.90	346	228.10	1287	339.00	160
75.10	8389	151.00	515	229.00	1746	340.90	638
76.10	3155	151.80	424	230.10	621	346.10	1223
77.10	52016	153.10	818	231.10	917	346.80	342
78.00	2622	153.90	1325	232.00	259	352.10	1235
79.00	3158	155.00	1130	234.00	702	352.90	782
80.00	2845	156.10	1977	235.10	935	354.00	1369
81.00	4103	157.90	671	236.00	290	354.90	324
82.00	1191	159.10	229	236.70	743	358.80	206
82.90	644	160.10	1208	238.00	275	361.60	184

84.00	449	161.00	1395	238.70	185	365.00	7036
85.00	763	162.00	608	239.30	429	366.00	1691
86.00	2080	163.90	464	240.00	315	370.10	278
87.00	484	164.90	964	240.80	705	371.10	630
87.80	359	165.90	1555	242.10	1182	372.10	2053
89.00	194	167.10	7113	243.10	1352	372.90	669
89.90	161	168.10	3919	244.10	13549	374.10	164
91.10	632	169.00	159	245.10	2569	382.90	880
92.00	811	170.00	421	246.10	3032	384.10	243
93.00	6957	170.90	447	247.10	636	391.10	153
94.10	270	171.80	778	248.80	281	392.10	404
95.10	290	172.90	425	250.50	195	401.10	298
96.10	838	173.90	1063	250.80	202	401.70	474
96.90	333	175.00	2736	251.80	174	402.10	420
98.00	4186	176.00	711	252.70	298	403.10	1819
99.10	3643	177.00	1191	253.20	361	403.90	374
101.00	2274	178.10	540	253.90	577	404.90	410
103.00	813	179.00	4684	255.10	83256	420.90	876
103.90	1093	180.00	4327	256.00	11658	422.10	1168
105.10	1348	181.00	838	257.20	1055	423.10	7203
106.20	457	182.10	431	258.00	5128	423.90	1792
107.10	18480	183.00	407	258.80	487	424.80	266
108.00	2738	184.10	457	261.10	279	425.80	173
110.00	29896	185.00	2873	263.90	216	429.80	161
111.10	4058	186.10	17136	265.00	2151	432.60	195
111.90	611	187.00	3843	265.80	408	441.00	20720
113.00	164	188.00	758	272.20	213	442.00	134336
115.20	224	188.80	1009	273.00	3290	443.00	26976
116.00	674	189.90	398	274.00	5106	444.00	2824
117.00	12781	191.10	361	275.00	34808	444.90	336
118.00	611	192.00	1194	276.10	4479		
118.80	436	192.90	1618	277.00	2563		
119.30	177	194.10	238	277.80	312		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 20-MAR-2013 10:19
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.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				
7.339	7.469	-0.130	198	93056			50.00-	0.00	100.00
7.339	7.469	-0.130	51	39672			10.00-	80.00	42.63
7.339	7.469	-0.130	68	940			0.00-	2.00	1.89
7.339	7.469	-0.130	69	49616			0.00-	0.00	53.32
7.339	7.469	-0.130	70	0	0.0	0.0	0.00-	2.00	0.00
7.339	7.469	-0.130	127	49624			10.00-	80.00	53.33
7.339	7.469	-0.130	197	1106			0.00-	2.00	1.19
7.339	7.469	-0.130	442	49872			50.00-	0.00	53.59
7.339	7.469	-0.130	199	6856			5.00-	9.00	7.37
7.339	7.469	-0.130	275	16528			10.00-	60.00	17.76
7.339	7.469	-0.130	365	3190			1.00-	0.00	3.43
7.339	7.469	-0.130	441	6828			0.01-	99.99	77.43
7.339	7.469	-0.130	443	8818			15.00-	24.00	17.68

Data File: 1CC20002.D

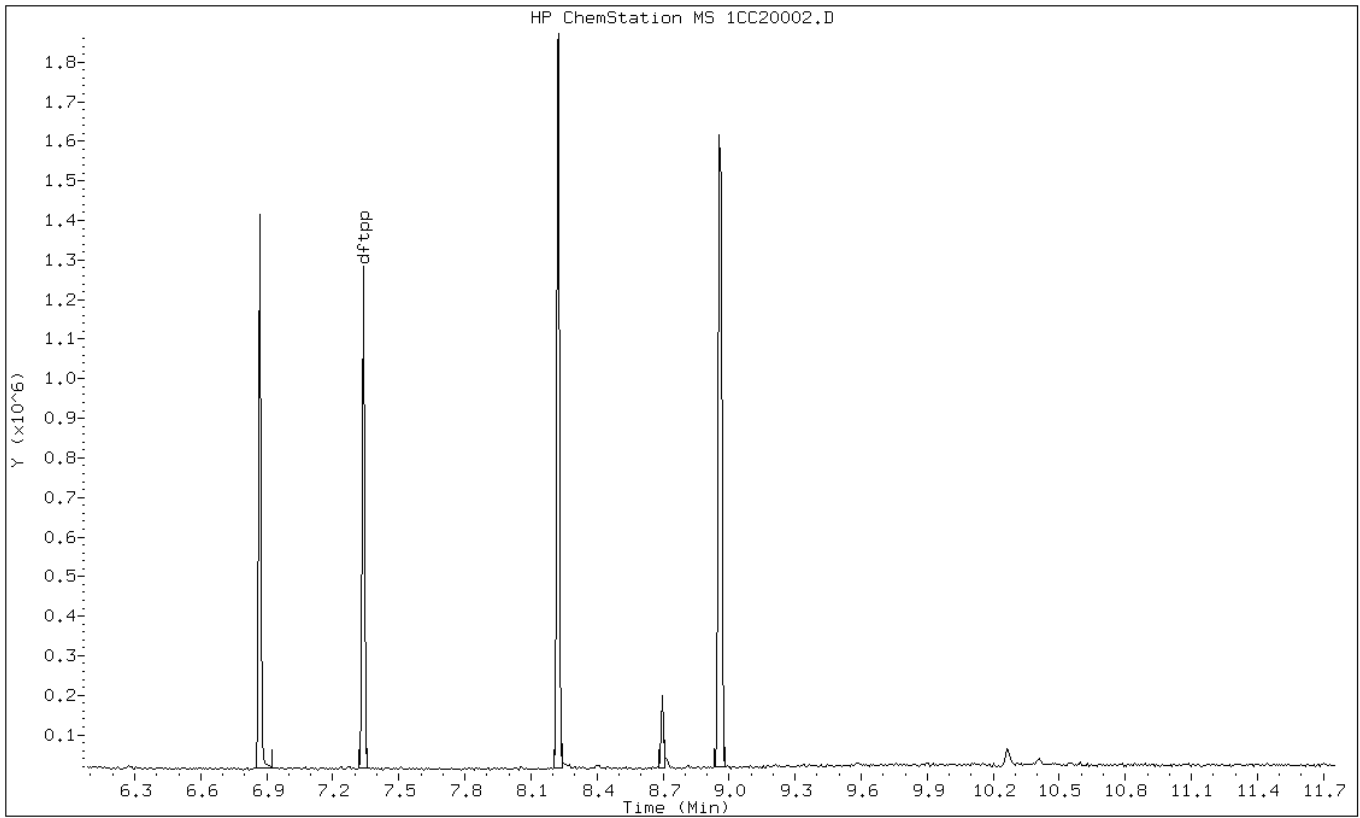
Date: 20-MAR-2013 10:19

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC20002.D

Date: 20-MAR-2013 10:19

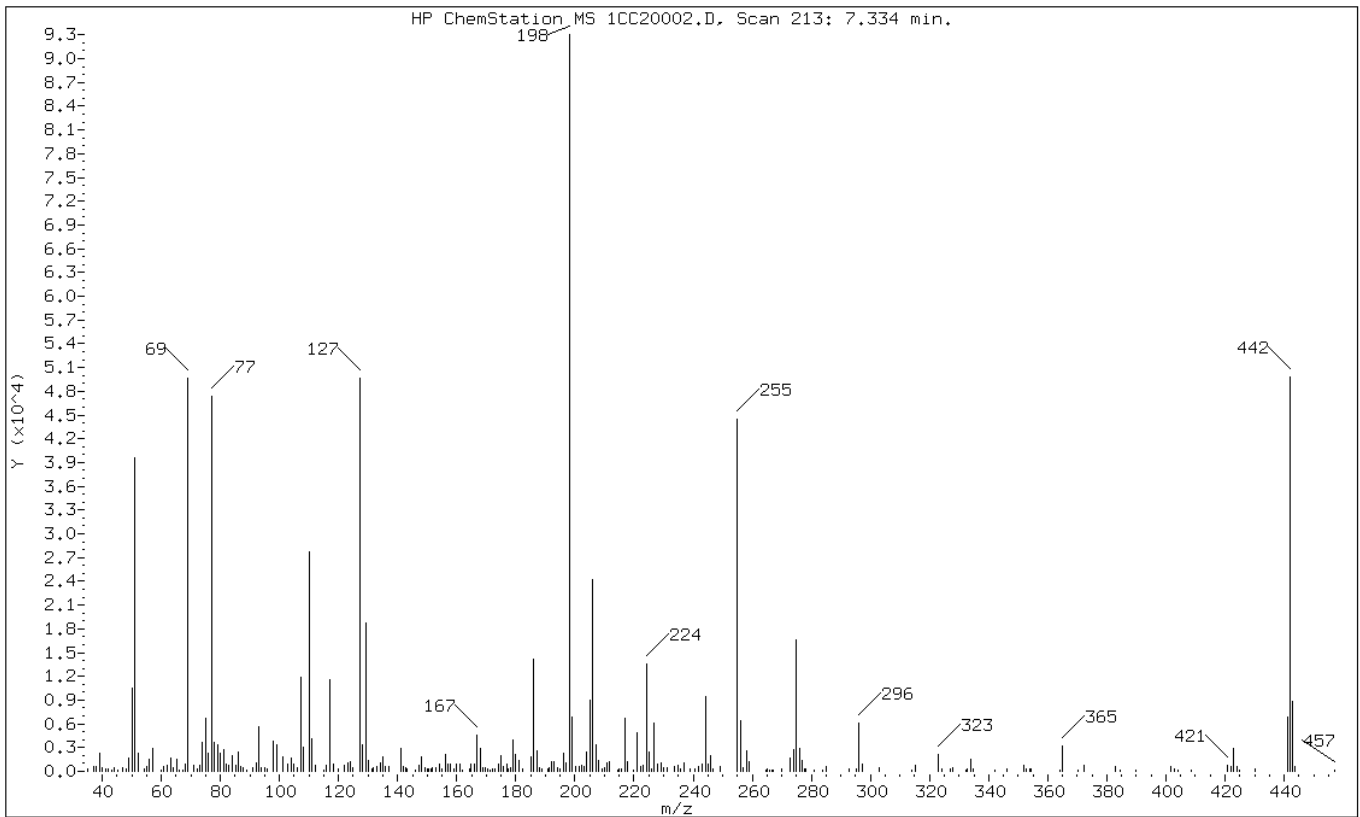
Client ID: DFTPP

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	42.63
68	Less than 2.00% of mass 69	1.01 (1.89)
69	Mass 69 relative abundance	53.32
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	53.33
197	Less than 2.00% of mass 198	1.19
442	Greater than 50.00% of mass 198	53.59
199	5.00 - 9.00% of mass 198	7.37
275	10.00 - 60.00% of mass 198	17.76
365	Greater than 1.00% of mass 198	3.43
441	Present, but less than mass 443	7.34
443	15.00 - 24.00% of mass 442	9.48 (17.68)

Data File: 1CC20002.D

Date: 20-MAR-2013 10:19

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\1CC20002.D

Spectrum: HP ChemStation MS 1CC20002.D, Scan 213: 7.334 min.

Location of Maximum: 198.00

Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	325	110.10	27784	181.00	1339	259.10	1182
37.00	553	111.10	4099	182.10	234	264.70	215
38.10	674	112.10	740	185.10	1825	265.10	282
39.20	2339	115.00	185	186.10	14098	266.00	163
40.00	434	116.00	713	187.00	2589	266.60	182
41.10	341	117.00	11557	188.20	388	267.10	209
42.10	243	118.10	941	188.80	347	269.80	333
43.10	199	120.10	325	190.80	343	273.00	1727
44.00	430	122.10	706	191.40	483	274.10	2791
45.10	180	123.00	1026	192.00	1217	275.00	16528
46.90	453	124.10	1287	193.00	1187	276.00	2935
48.00	288	125.00	524	194.10	394	277.00	1417
49.10	1632	127.10	49624	195.00	331	277.80	350
50.10	10503	128.10	3385	196.00	2350	278.20	269
51.10	39672	129.10	18776	197.00	1106	281.10	151
52.10	2278	130.10	1383	198.00	93056	283.70	204
54.10	241	131.20	258	199.00	6856	284.90	685
55.00	677	131.90	419	200.30	599	292.70	364
56.00	1454	132.80	562	201.40	614	295.20	311
57.10	2911	134.20	1050	202.20	743	296.00	6020
60.10	162	135.10	1836	202.90	612	297.10	968
60.90	572	135.80	684	204.00	2398	303.00	406
62.00	737	137.20	589	205.10	8983	313.90	211
63.10	1619	141.10	2819	206.00	24144	315.10	785
64.10	480	141.90	538	207.10	3314	323.00	2105
65.10	1505	142.80	387	207.90	1325	324.00	337
66.00	160	143.20	354	209.00	371	327.00	357
67.20	163	145.80	167	210.20	531	327.80	387
68.10	940	147.20	783	210.70	1125	332.20	228
69.00	49616	148.00	1837	211.60	1204	332.90	268
71.10	758	149.10	421	214.70	156	334.00	1470
72.10	353	150.10	237	215.10	260	334.80	285
72.90	792	150.60	304	215.90	372	342.00	202
74.00	3699	151.10	243	217.00	6720	346.00	378
75.10	6630	151.60	463	217.90	1152	352.00	758
76.00	2302	153.10	473	220.00	188	352.80	260
77.10	47368	154.20	889	221.00	4919	353.80	380
78.10	3683	155.00	298	222.10	666	354.50	230
79.10	3314	156.10	2070	222.90	698	364.20	211
80.10	2322	157.00	907	224.10	13584	365.00	3190

81.00	2732	158.00	988	225.00	2430	370.10	198
82.00	872	159.20	337	225.90	247	372.10	790
83.00	771	160.00	886	226.90	6055	382.90	646
83.90	1959	160.90	912	228.10	988	384.60	165
85.10	811	161.80	198	229.10	1137	389.80	163
85.90	2486	164.20	269	230.10	383	401.70	654
87.00	537	164.90	922	231.10	523	402.90	257
87.90	414	166.00	923	233.80	591	404.00	160
88.80	164	166.90	4540	235.00	790	408.50	157
90.80	497	168.00	2849	235.80	355	421.00	770
92.10	1006	168.90	459	237.00	1058	422.10	605
93.00	5618	169.80	470	238.90	301	422.90	2828
94.00	401	170.60	254	240.70	323	424.00	604
95.10	474	171.20	194	242.00	610	424.90	177
96.00	252	172.00	308	243.10	885	430.10	236
98.00	3789	172.80	376	244.10	9496	441.00	6828
99.10	3288	174.10	961	245.00	952	442.10	49872
101.00	1776	175.10	1981	245.90	2046	443.00	8818
102.80	881	175.90	570	246.90	377	443.80	642
104.00	1616	176.80	972	249.00	588	457.10	151
105.00	906	177.50	303	255.00	44536		
105.90	418	178.30	496	256.00	6471		
107.10	11889	179.00	3951	257.10	521		
108.10	3027	180.00	2170	258.00	2623		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21003.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 21-MAR-2013 11:33
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : DFTPP-1490607
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.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				
7.333	7.469	-0.136	198	153344			50.00-	0.00	100.00
7.333	7.469	-0.136	51	51408			10.00-	80.00	33.52
7.333	7.469	-0.136	68	926			0.00-	2.00	1.31
7.333	7.469	-0.136	69	70728			0.00-	0.00	46.12
7.333	7.469	-0.136	70	260			0.00-	2.00	0.37
7.333	7.469	-0.136	127	64272			10.00-	80.00	41.91
7.333	7.469	-0.136	197	0	0.0	0.0	0.00-	2.00	0.00
7.333	7.469	-0.136	442	112688			50.00-	0.00	73.49
7.333	7.469	-0.136	199	9425			5.00-	9.00	6.15
7.333	7.469	-0.136	275	32776			10.00-	60.00	21.37
7.333	7.469	-0.136	365	4110			1.00-	0.00	2.68
7.333	7.469	-0.136	441	15888			0.01-	99.99	69.98
7.333	7.469	-0.136	443	22704			15.00-	24.00	20.15

Data File: 1CC21003.D

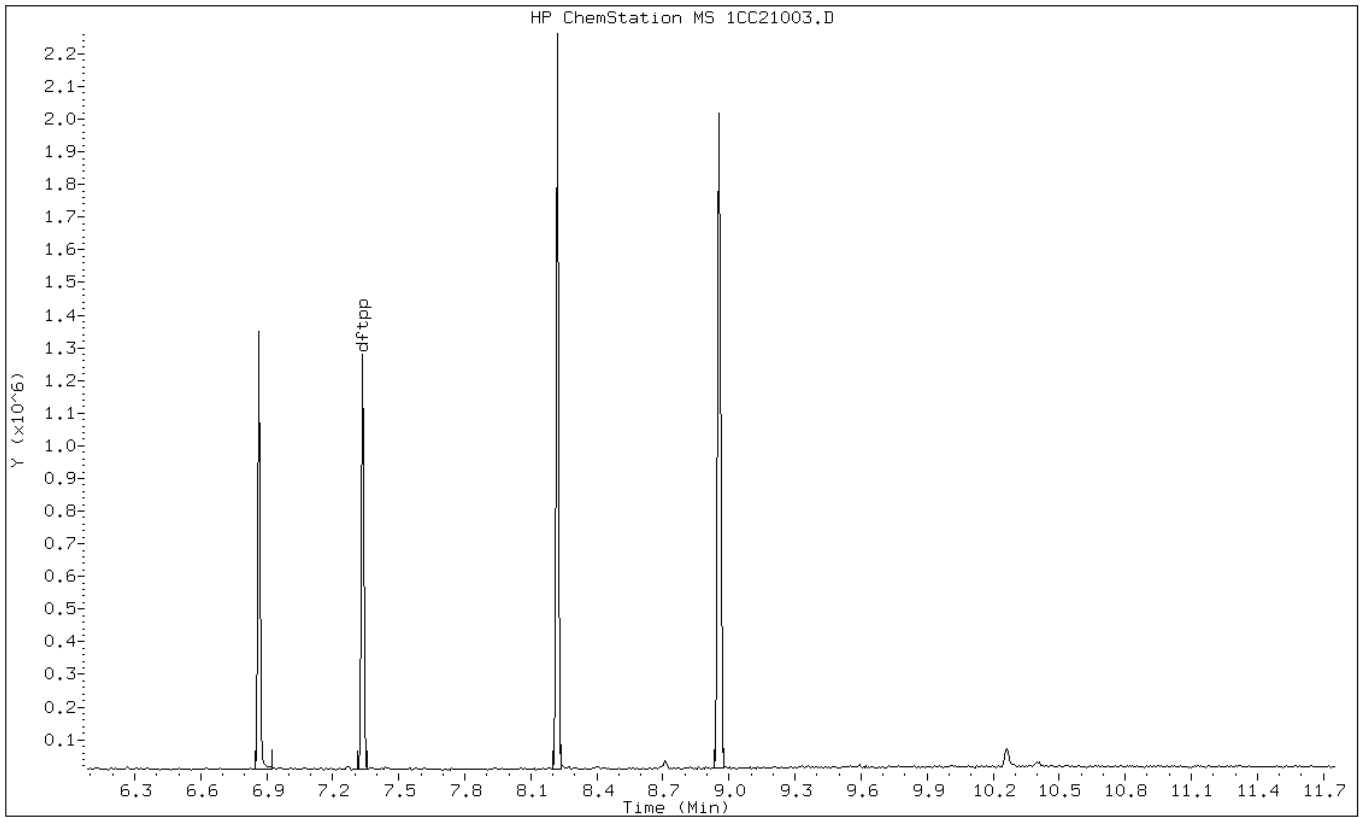
Date: 21-MAR-2013 11:33

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



Data File: 1CC21003.D

Date: 21-MAR-2013 11:33

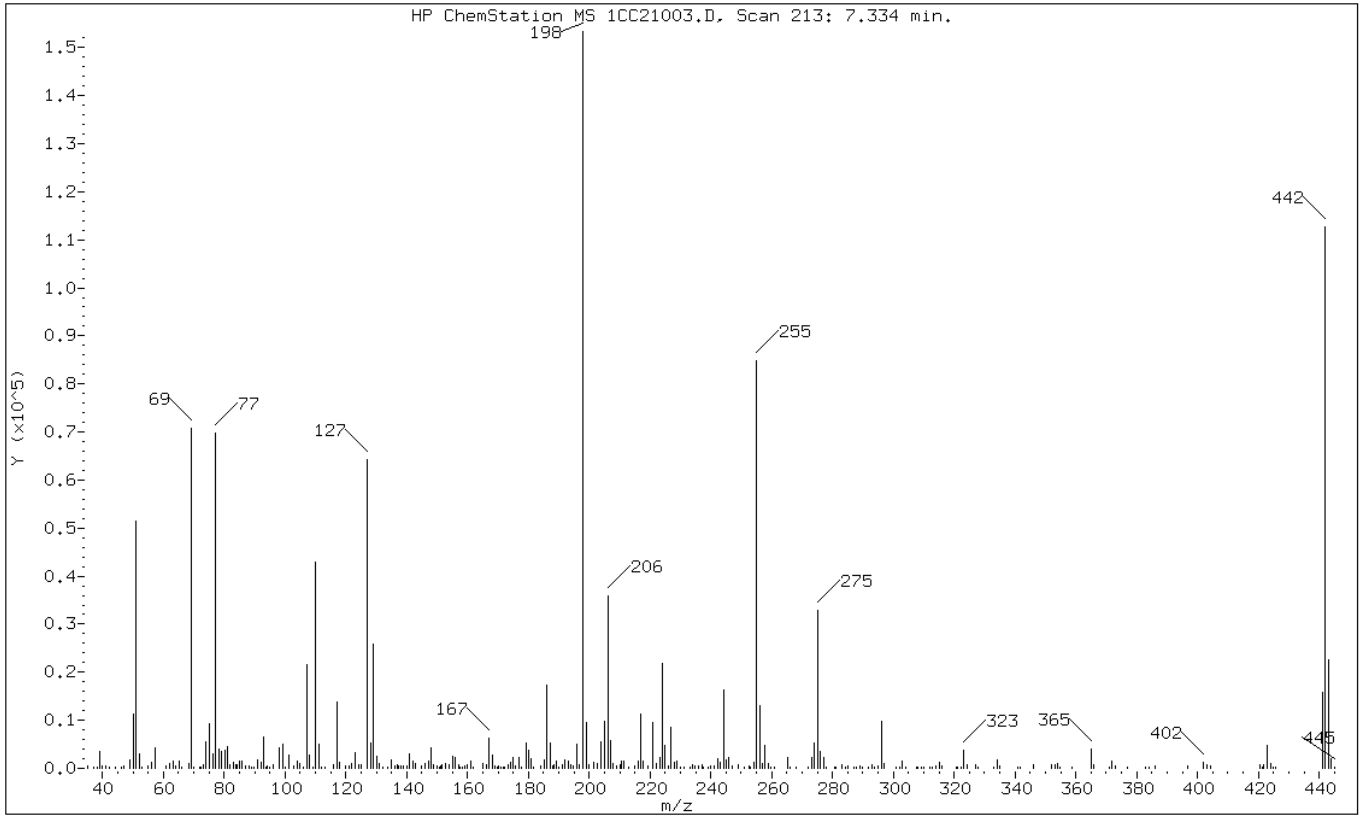
Client ID: DFTPP

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	33.52
68	Less than 2.00% of mass 69	0.60 (1.31)
69	Mass 69 relative abundance	46.12
70	Less than 2.00% of mass 69	0.17 (0.37)
127	10.00 - 80.00% of mass 198	41.91
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	73.49
199	5.00 - 9.00% of mass 198	6.15
275	10.00 - 60.00% of mass 198	21.37
365	Greater than 1.00% of mass 198	2.68
441	Present, but less than mass 443	10.36
443	15.00 - 24.00% of mass 442	14.81 (20.15)

Data File: 1CC21003.D

Date: 21-MAR-2013 11:33

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C032113.b\1CC21003.D

Spectrum: HP ChemStation MS 1CC21003.D, Scan 213: 7.334 min.

Location of Maximum: 198.00

Number of points: 290

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	388	120.00	463	193.20	1544	280.80	245
37.00	271	121.10	467	193.80	786	281.20	158
38.20	230	122.00	1103	194.90	438	283.10	772
39.10	3419	123.00	3178	196.00	5138	284.20	158
40.00	576	124.10	652	196.60	749	285.10	440
41.00	492	125.10	862	198.00	153344	287.10	205
42.30	172	127.10	64272	199.00	9425	287.80	243
44.10	335	128.00	5157	200.00	791	288.90	392
46.30	215	129.00	25792	201.50	1150	289.80	282
47.00	505	130.00	2608	202.80	1041	291.80	190
49.10	1839	131.00	892	204.00	5517	293.00	876
50.10	11248	132.10	342	205.00	9884	293.70	315
51.10	51408	133.90	265	206.10	35936	294.90	469
52.10	2955	135.00	1773	207.10	5865	296.00	9727
52.90	349	136.10	573	208.00	883	296.90	943
55.10	409	136.90	722	209.00	546	300.80	280
56.10	1268	137.40	518	210.00	665	302.00	157
57.10	4247	137.90	457	210.60	1414	303.00	1428
61.00	421	139.00	423	211.20	1382	304.00	245
62.00	889	140.10	585	213.00	206	307.70	156
63.10	1394	141.00	2963	215.00	597	308.10	176
64.10	506	142.00	1550	216.20	1385	309.10	172
65.10	1550	143.00	934	217.00	11206	310.00	200
66.00	241	144.90	383	217.90	1428	312.00	200
68.20	926	145.90	924	219.30	408	312.80	251
69.00	70728	147.10	1495	221.00	9473	314.10	565
70.10	260	148.00	4142	222.00	929	315.00	1312
71.90	191	148.90	705	223.10	2174	316.10	469
72.50	157	150.00	533	224.00	21760	320.60	338
73.10	783	150.60	354	225.00	4667	321.00	354
74.10	5420	151.30	575	226.10	578	322.20	189
75.10	9232	151.70	733	227.00	8431	323.10	3744
76.20	3050	152.80	960	228.00	1329	324.20	739
77.10	69880	153.90	797	228.90	1502	327.10	708
78.10	4026	155.10	2411	230.00	295	327.90	298
79.00	3626	156.10	2227	231.10	295	332.90	233
80.10	3698	157.10	875	233.00	301	334.10	1694
81.10	4502	157.70	209	233.90	872	335.10	400
82.00	793	158.10	266	234.90	537	341.10	217
83.00	1195	158.90	573	235.90	441	341.60	225

83.90	774	159.90	716	237.00	738	346.00	718
84.10	778	161.00	1503	237.70	172	351.90	652
85.00	1602	161.90	177	239.10	280	353.00	641
85.90	1440	165.00	980	239.90	406	354.00	971
86.90	482	166.30	862	240.90	381	354.60	168
88.00	483	167.00	6213	242.10	1996	358.90	219
88.90	330	168.20	2789	243.00	1184	365.10	4110
89.60	164	169.00	558	244.10	16384	365.90	860
91.10	1689	169.80	286	245.00	1694	371.00	168
92.10	1353	170.20	400	246.00	2184	372.00	1421
93.00	6440	171.00	219	247.10	426	373.20	494
93.80	223	171.70	256	249.10	726	377.00	174
94.20	384	172.10	218	250.90	201	383.00	325
95.10	248	173.20	638	252.60	407	384.00	257
96.00	682	174.10	1258	253.00	346	385.90	417
98.00	4177	175.10	2222	254.10	1216	396.90	402
99.10	4929	175.90	494	255.00	84872	401.90	1264
100.00	342	177.10	2171	256.00	12985	403.10	799
101.10	2769	177.80	221	256.90	940	404.20	406
103.00	494	179.10	5179	257.90	4889	420.70	689
104.10	1450	180.10	3709	259.00	912	421.30	221
105.00	927	181.00	2098	259.90	204	421.90	726
106.00	347	181.80	264	260.80	285	423.00	4851
107.10	21688	184.10	543	265.10	2165	424.10	927
108.00	2864	185.10	1859	265.90	350	424.70	221
109.00	359	186.00	17328	268.00	153	425.70	155
110.00	42824	187.10	5310	272.10	151	441.00	15888
111.00	5053	187.90	553	273.00	2311	442.00	112688
112.00	264	188.30	650	274.00	5251	443.00	22704
113.10	346	189.00	1611	275.00	32776	444.00	2016
115.90	862	189.90	279	275.90	3495	445.10	241
117.10	13707	191.10	793	277.00	2142		
118.00	1133	192.00	1742	277.80	356		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: _____ Lab Sample ID: MB 660-135392/1-A
 Matrix: Solid Lab File ID: 1CC15006.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.00(g) Date Analyzed: 03/15/2013 16:51
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 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	67		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15006.D
 Lab Smp Id: mb 660-135392/1-a
 Inj Date : 15-MAR-2013 16:51
 Operator : SCC
 Smp Info : mb 660-135392/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 6 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		3.751	3.751	(1.000)	939347	40.0000	
* 6 Acenaphthene-d10	164		4.839	4.839	(1.000)	723507	40.0000	
* 10 Phenanthrene-d10	188		5.792	5.786	(1.000)	1400314	40.0000	
\$ 14 o-Terphenyl	230		6.045	6.039	(1.044)	141488	6.69216	446.1439
* 18 Chrysene-d12	240		7.739	7.733	(1.000)	1658692	40.0000	
* 23 Perylene-d12	264		8.945	8.927	(1.000)	1746584	40.0000	

Data File: 1CC15006.D

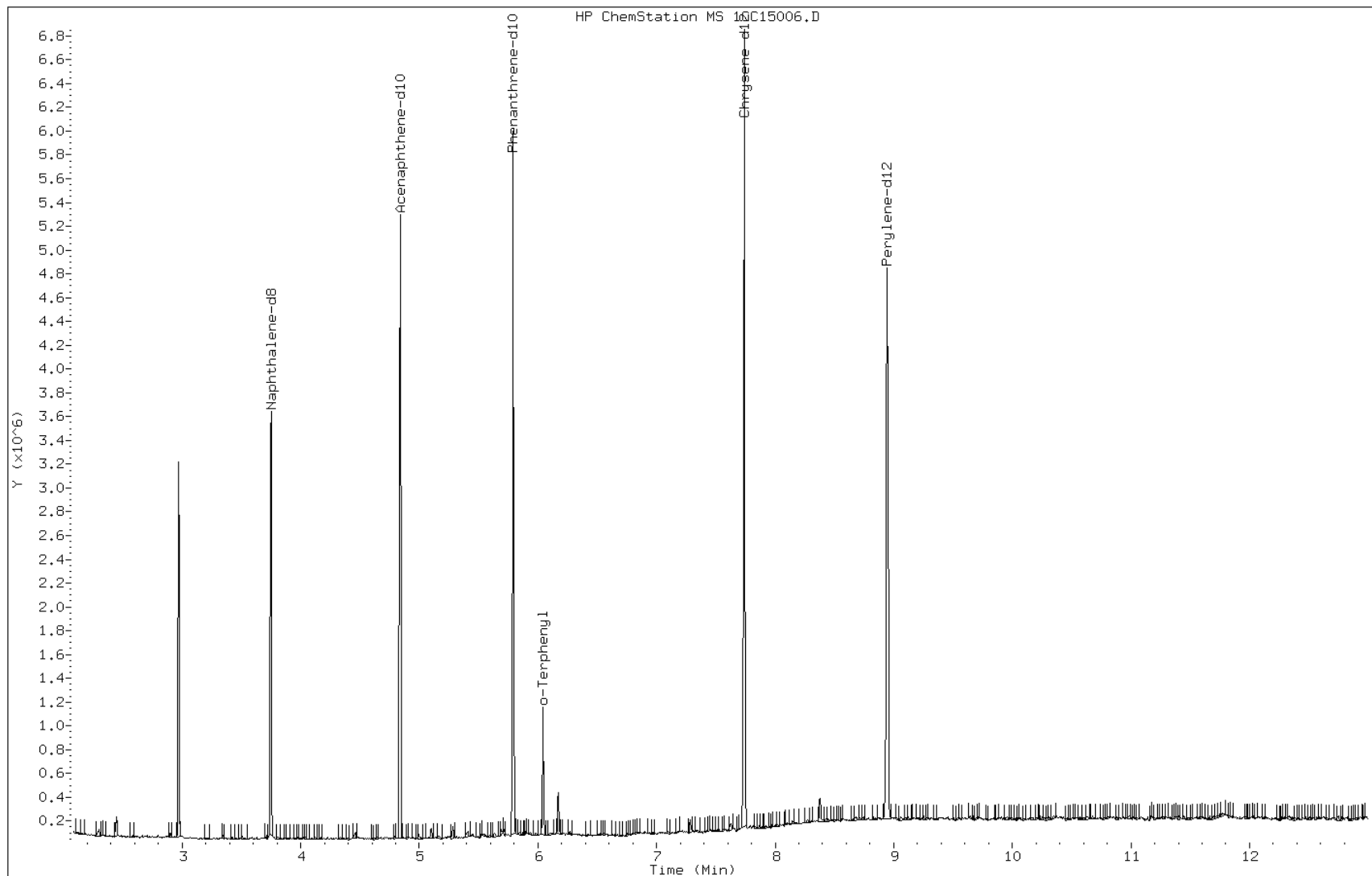
Date: 15-MAR-2013 16:51

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135392/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: _____ Lab Sample ID: MB 660-135508/1-A
 Matrix: Solid Lab File ID: 1CC20005.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.15(g) Date Analyzed: 03/20/2013 11:14
 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.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.1
205-99-2	Benzo[b]fluoranthene	12	U	12	6.0
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.0
90-12-0	1-Methylnaphthalene	40	U	40	4.4
91-57-6	2-Methylnaphthalene	40	U	40	7.0
91-20-3	Naphthalene	40	U	40	4.4
85-01-8	Phenanthrene	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032013.b\1CC20005.D
 Lab Smp Id: mb 660-135508/1-a
 Inj Date : 20-MAR-2013 11:14
 Operator : SCC
 Smp Info : mb 660-135508/1-a
 Misc Info :
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 5 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		3.739	3.745	(1.000)	755525	40.0000	
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	600985	40.0000	
* 10 Phenanthrene-d10	188		5.774	5.780	(1.000)	1169250	40.0000	
\$ 14 o-Terphenyl	230		6.027	6.027	(1.044)	154141	8.73138	576.3286
* 18 Chrysene-d12	240		7.715	7.721	(1.000)	1421522	40.0000	
* 23 Perylene-d12	264		8.903	8.909	(1.000)	1435990	40.0000	

Data File: 1CC20005.D

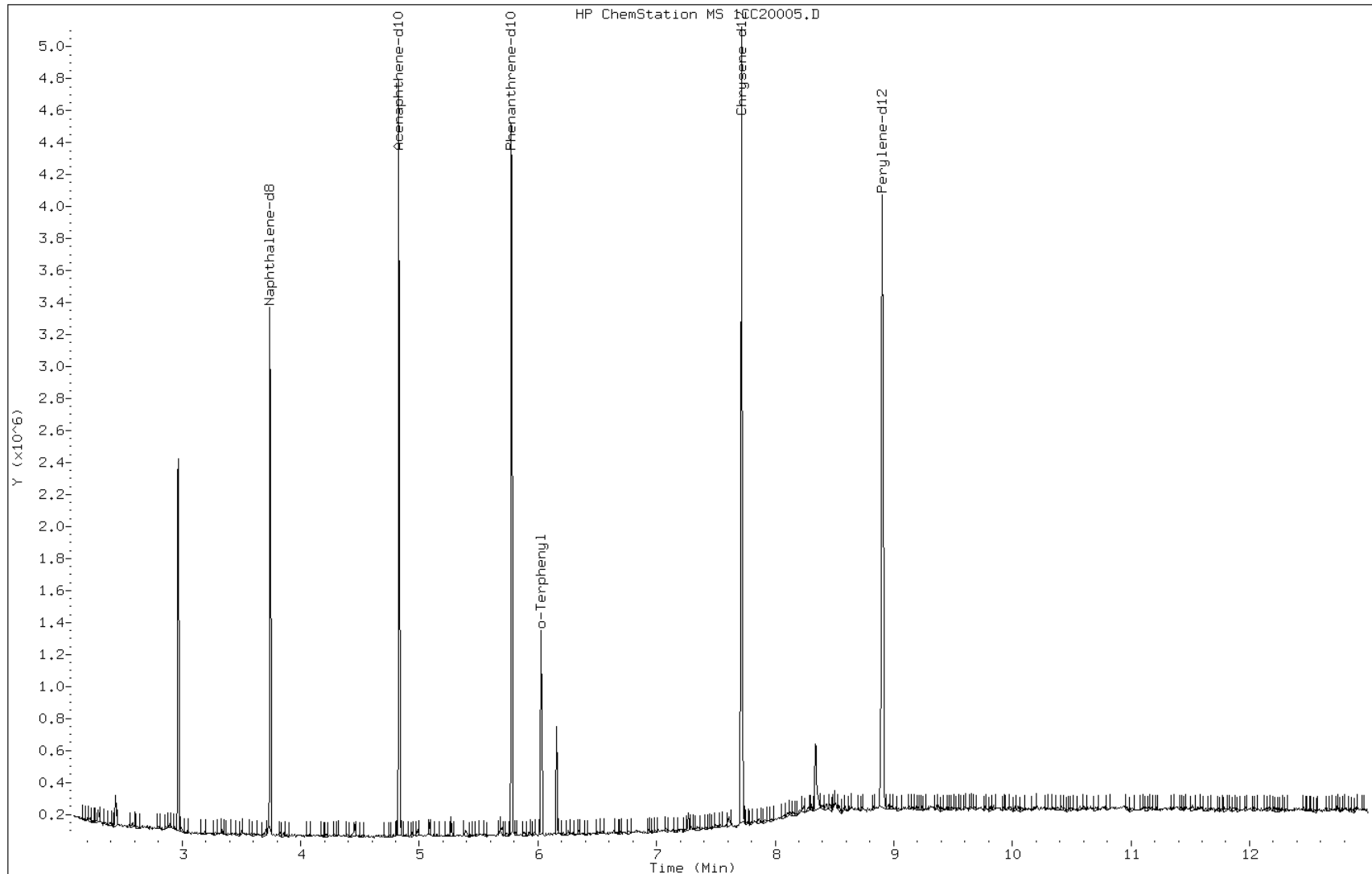
Date: 20-MAR-2013 11:14

Client ID:

Instrument: BSMC5973.i

Sample Info: mb 660-135508/1-a

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: _____ Lab Sample ID: LCS 660-135392/2-A
 Matrix: Solid Lab File ID: 1CC15007.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/14/2013 10:53
 Sample wt/vol: 15.17(g) Date Analyzed: 03/15/2013 17:09
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 135469 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	486		99	20
208-96-8	Acenaphthylene	499		40	4.9
120-12-7	Anthracene	482		8.3	4.2
56-55-3	Benzo[a]anthracene	483		7.9	3.9
50-32-8	Benzo[a]pyrene	451		10	5.1
205-99-2	Benzo[b]fluoranthene	451		12	6.0
191-24-2	Benzo[g,h,i]perylene	483		20	4.4
207-08-9	Benzo[k]fluoranthene	550		7.9	3.6
218-01-9	Chrysene	458		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	475		20	4.1
206-44-0	Fluoranthene	497		20	4.0
86-73-7	Fluorene	539		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	441		20	7.0
90-12-0	1-Methylnaphthalene	509		40	4.4
91-57-6	2-Methylnaphthalene	494		40	7.0
91-20-3	Naphthalene	490		40	4.4
85-01-8	Phenanthrene	493		7.9	3.9
129-00-0	Pyrene	499		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\1CC15007.D
 Lab Smp Id: lcs 660-135392/2-a
 Inj Date : 15-MAR-2013 17:09
 Operator : SCC
 Smp Info : lcs 660-135392/2-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C031513.b\a-bFASTPAHi-m.m
 Meth Date : 15-Mar-2013 15:04 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 7 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	15.170	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		3.745	3.751	(1.000)	970938	40.0000	
* 6 Acenaphthene-d10	164		4.833	4.839	(1.000)	740042	40.0000	
* 10 Phenanthrene-d10	188		5.786	5.786	(1.000)	1413817	40.0000	
\$ 14 o-Terphenyl	230		6.033	6.039	(1.043)	152604	7.14899	471.2585
* 18 Chrysene-d12	240		7.727	7.733	(1.000)	1770209	40.0000	
* 23 Perylene-d12	264		8.915	8.927	(1.000)	1805371	40.0000	
2 Naphthalene	128		3.763	3.763	(1.005)	187835	7.43101	489.8489
3 2-Methylnaphthalene	142		4.186	4.186	(1.118)	126324	7.49209	493.8751
4 1-Methylnaphthalene	142		4.251	4.251	(1.135)	118538	7.71916	508.8439
5 Acenaphthylene	152		4.745	4.751	(0.982)	225631	7.56233	498.5057
7 Acenaphthene	154		4.857	4.857	(1.005)	136709	7.37180	485.9462
9 Fluorene	166		5.174	5.174	(1.071)	191861	8.18054	539.2579
11 Phenanthrene	178		5.798	5.804	(1.002)	306046	7.48620	493.4873
12 Anthracene	178		5.833	5.839	(1.008)	292379	7.31282	482.0580

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	5.939	5.945	(1.026)	281198	7.91195	521.5521
15 Fluoranthene	202	6.639	6.639	(1.147)	337431	7.53699	496.8350
16 Pyrene	202	6.804	6.810	(0.880)	360331	7.57446	499.3053
17 Benzo(a)anthracene	228	7.721	7.727	(0.999)	374676	7.33341	483.4152
19 Chrysene	228	7.745	7.751	(1.002)	355589	6.95460	458.4444
20 Benzo(b)fluoranthene	252	8.568	8.580	(0.961)	323117	6.84845	451.4467
21 Benzo(k)fluoranthene	252	8.586	8.604	(0.963)	403750	8.34187	549.8923
22 Benzo(a)pyrene	252	8.862	8.874	(0.994)	313792	6.84713	451.3598
24 Indeno(1,2,3-cd)pyrene	276	10.086	10.109	(1.131)	288704	6.69670	441.4433(M)
25 Dibenzo(a,h)anthracene	278	10.103	10.127	(1.133)	303890	7.20647	475.0477
26 Benzo(g,h,i)perylene	276	10.439	10.462	(1.171)	330253	7.32298	482.7278

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC15007.D

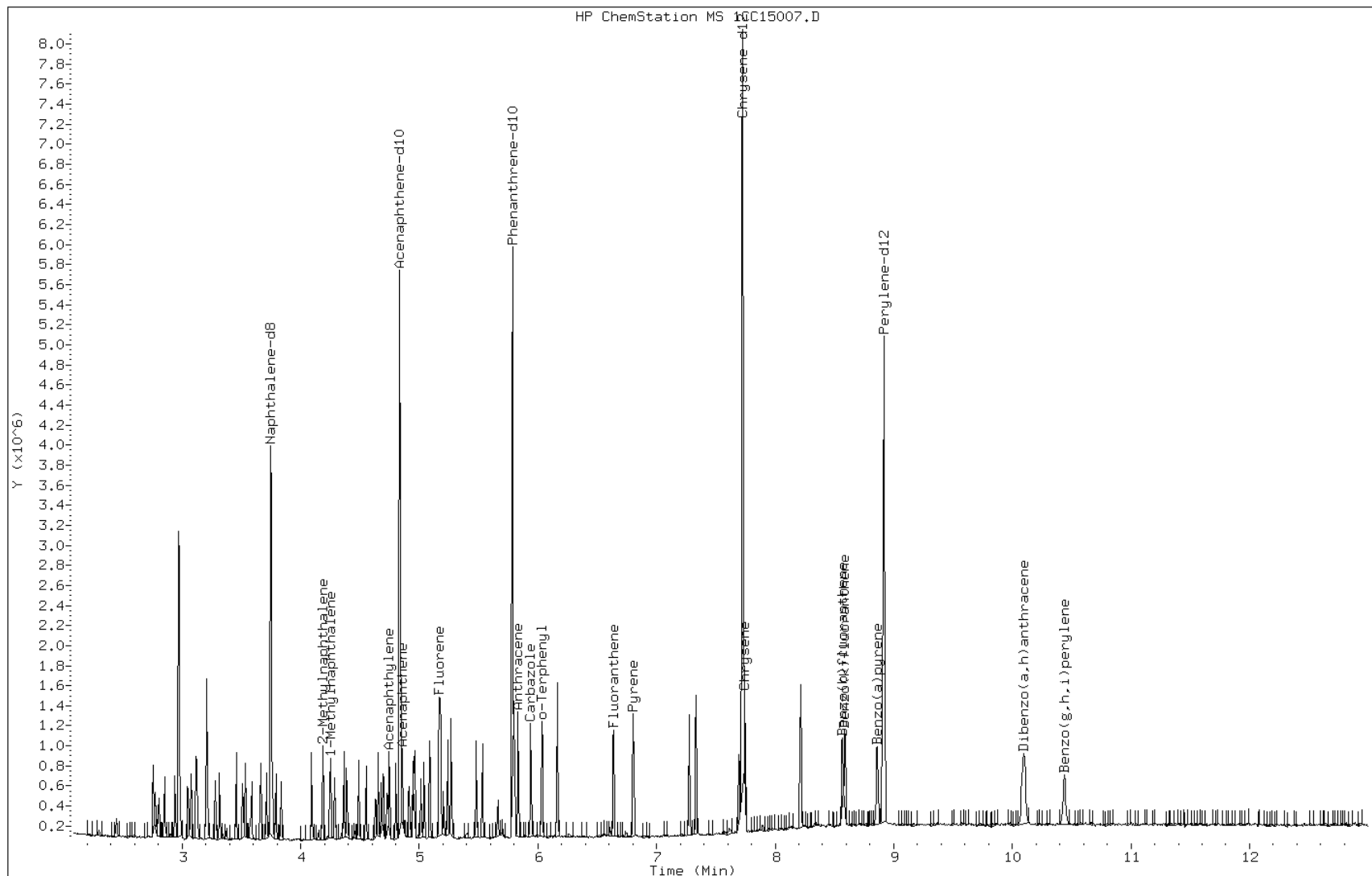
Date: 15-MAR-2013 17:09

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135392/2-a

Operator: SCC

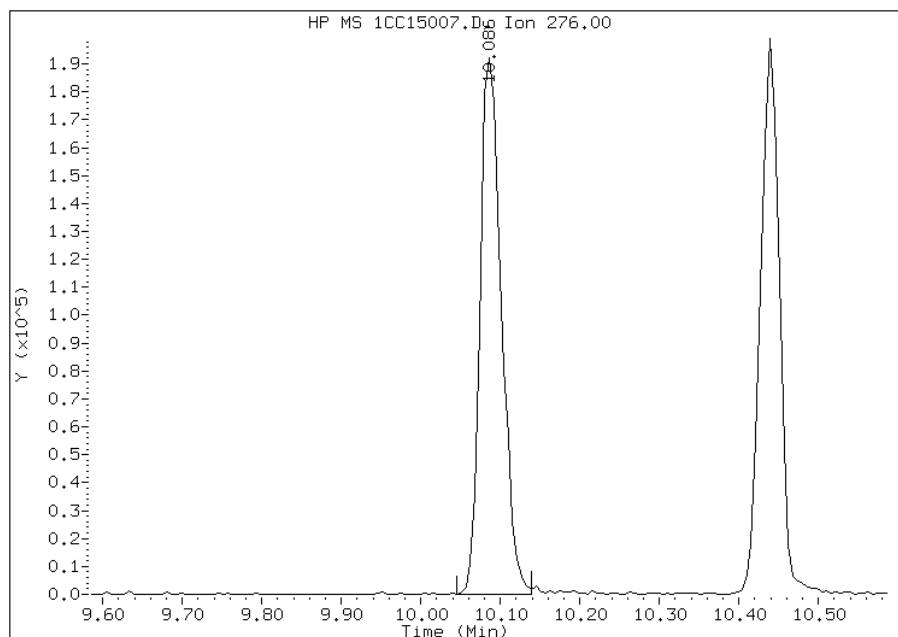


Manual Integration Report

Data File: 1CC15007.D
Inj. Date and Time: 15-MAR-2013 17:09
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/20/2013

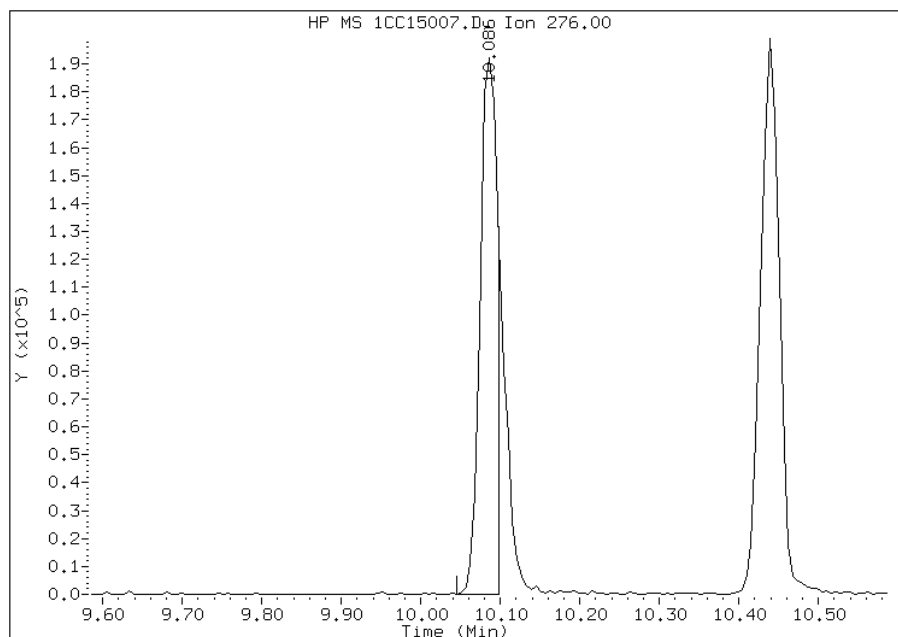
Processing Integration Results

RT: 10.09
Response: 355045
Amount: 8
Conc: 543



Manual Integration Results

RT: 10.09
Response: 288704
Amount: 7
Conc: 441



Manually Integrated By: cantins
Modification Date: 19-Mar-2013 13:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-88176-1
 SDG No.: 68088176-1
 Client Sample ID: _____ Lab Sample ID: LCS 660-135508/2-A
 Matrix: Solid Lab File ID: 1CC20006.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 03/18/2013 13:53
 Sample wt/vol: 15.27(g) Date Analyzed: 03/20/2013 11:32
 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.: 135624 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	469		98	20
208-96-8	Acenaphthylene	496		39	4.9
120-12-7	Anthracene	498		8.3	4.1
56-55-3	Benzo[a]anthracene	508		7.9	3.8
50-32-8	Benzo[a]pyrene	494		10	5.1
205-99-2	Benzo[b]fluoranthene	552		12	6.0
191-24-2	Benzo[g,h,i]perylene	457		20	4.3
207-08-9	Benzo[k]fluoranthene	517		7.9	3.5
218-01-9	Chrysene	469		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	488		20	4.0
206-44-0	Fluoranthene	531		20	3.9
86-73-7	Fluorene	493		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	443		20	7.0
90-12-0	1-Methylnaphthalene	531		39	4.3
91-57-6	2-Methylnaphthalene	525		39	7.0
91-20-3	Naphthalene	512		39	4.3
85-01-8	Phenanthrene	493		7.9	3.8
129-00-0	Pyrene	519		20	3.6

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\1C032013.b\1CC20006.D
 Lab Smp Id: lcs 660-135508/2-a
 Inj Date : 20-MAR-2013 11:32
 Operator : SCC Inst ID: BSMC5973.i
 Smp Info : lcs 660-135508/2-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C032013.b\a-bFASTPAHi-m.m
 Meth Date : 20-Mar-2013 10:50 cantins Quant Type: ISTD
 Cal Date : 22-FEB-2013 13:48 Cal File: 1CB22009.D
 Als bottle: 6 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.270	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		3.739	3.745	(1.000)	896119	40.0000		
* 6 Acenaphthene-d10	164		4.827	4.827	(1.000)	725102	40.0000		
* 10 Phenanthrene-d10	188		5.780	5.780	(1.000)	1367362	40.0000		
\$ 14 o-Terphenyl	230		6.027	6.027	(1.043)	149745	7.25339	475.0090	
* 18 Chrysene-d12	240		7.721	7.721	(1.000)	1730581	40.0000		
* 23 Perylene-d12	264		8.904	8.909	(1.000)	1672198	40.0000		
2 Naphthalene	128		3.757	3.757	(1.005)	182394	7.81822	511.9983	
3 2-Methylnaphthalene	142		4.180	4.180	(1.118)	124665	8.01101	524.6240	
4 1-Methylnaphthalene	142		4.245	4.245	(1.135)	114931	8.10916	531.0514	
5 Acenaphthylene	152		4.739	4.745	(0.982)	221482	7.57622	496.1507	
7 Acenaphthene	154		4.851	4.851	(1.005)	130157	7.16311	469.0967	
9 Fluorene	166		5.169	5.169	(1.071)	172901	7.52402	492.7324	
11 Phenanthrene	178		5.792	5.792	(1.002)	297715	7.52983	493.1127	
12 Anthracene	178		5.827	5.827	(1.008)	294048	7.60443	497.9980	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	5.933	5.933	(1.026)	272375	7.92407	518.9302
15 Fluoranthene	202	6.627	6.633	(1.147)	351189	8.11079	531.1587
16 Pyrene	202	6.798	6.798	(0.880)	368738	7.92868	519.2322
17 Benzo(a)anthracene	228	7.710	7.715	(0.998)	387672	7.76153	508.2858
19 Chrysene	228	7.739	7.739	(1.002)	357960	7.16129	468.9775
20 Benzo(b)fluoranthene	252	8.557	8.562	(0.961)	368098	8.42315	551.6143
21 Benzo(k)fluoranthene	252	8.580	8.586	(0.964)	353962	7.89562	517.0672
22 Benzo(a)pyrene	252	8.851	8.857	(0.994)	320402	7.54815	494.3124
24 Indeno(1,2,3-cd)pyrene	276	10.068	10.080	(1.131)	270399	6.77160	443.4580(M)
25 Dibenzo(a,h)anthracene	278	10.086	10.098	(1.133)	290863	7.44687	487.6796
26 Benzo(g,h,i)perylene	276	10.421	10.433	(1.170)	291552	6.97969	457.0849

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CC20006.D

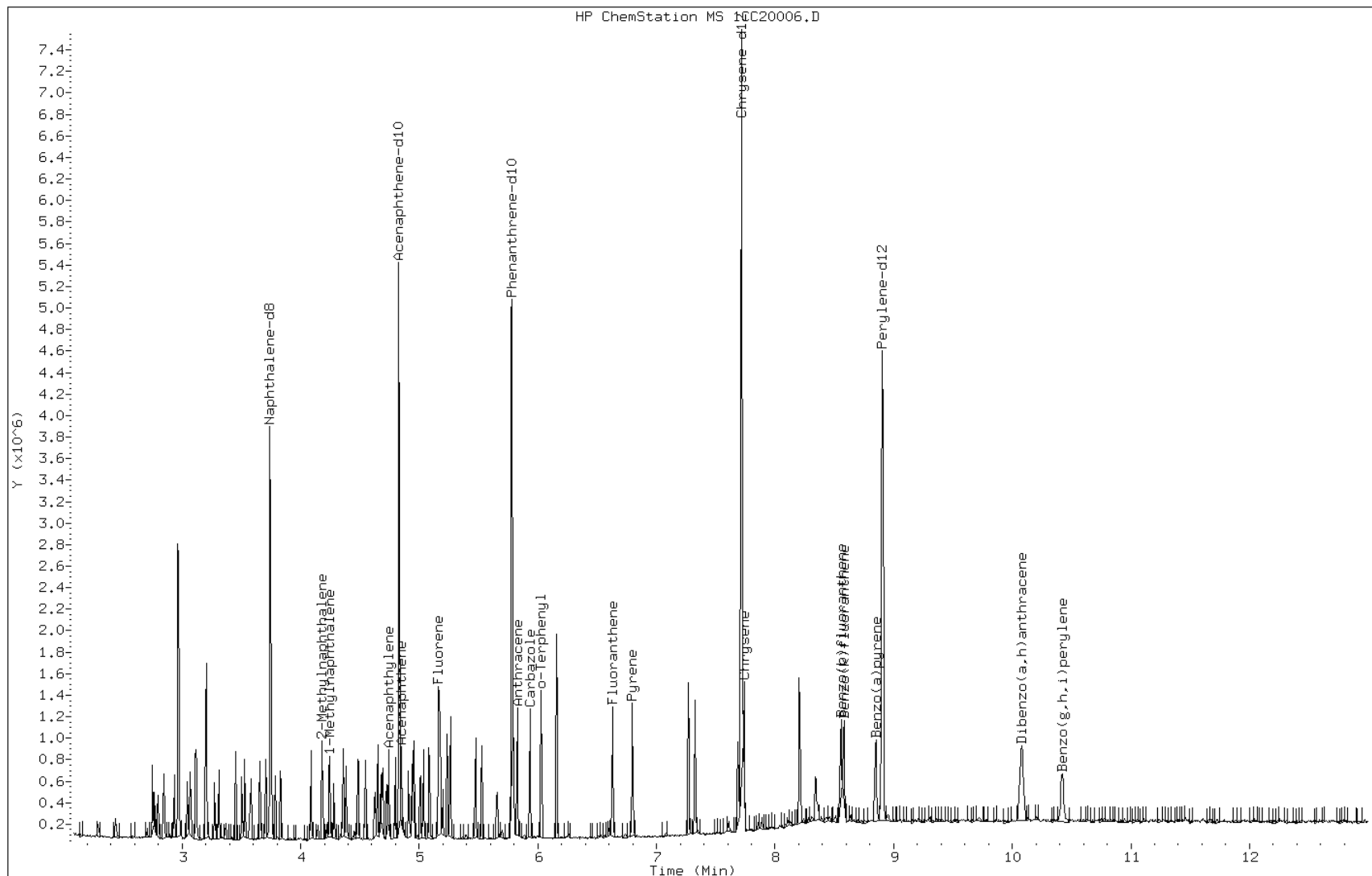
Date: 20-MAR-2013 11:32

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-135508/2-a

Operator: SCC

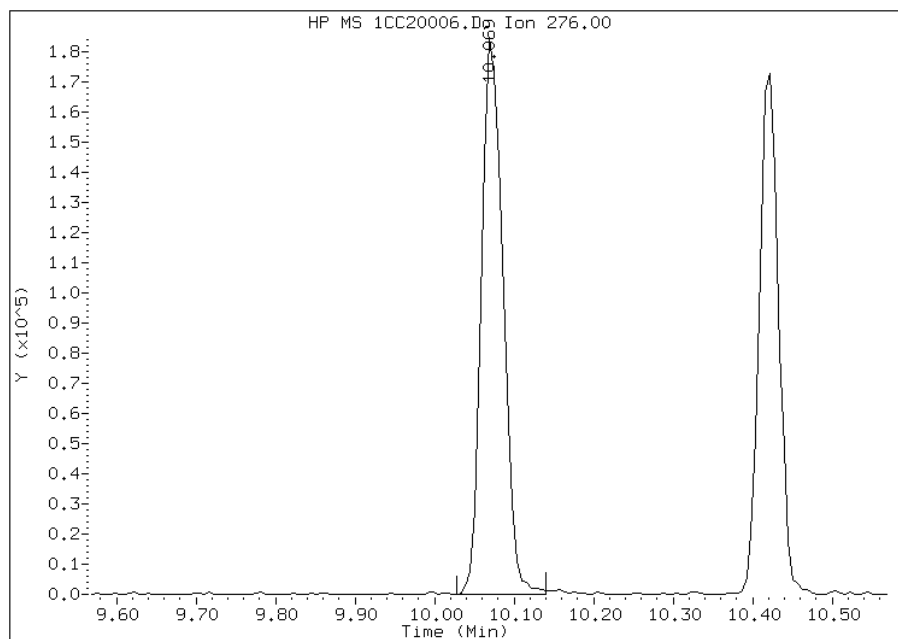


Manual Integration Report

Data File: 1CC20006.D
Inj. Date and Time: 20-MAR-2013 11:32
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 03/21/2013

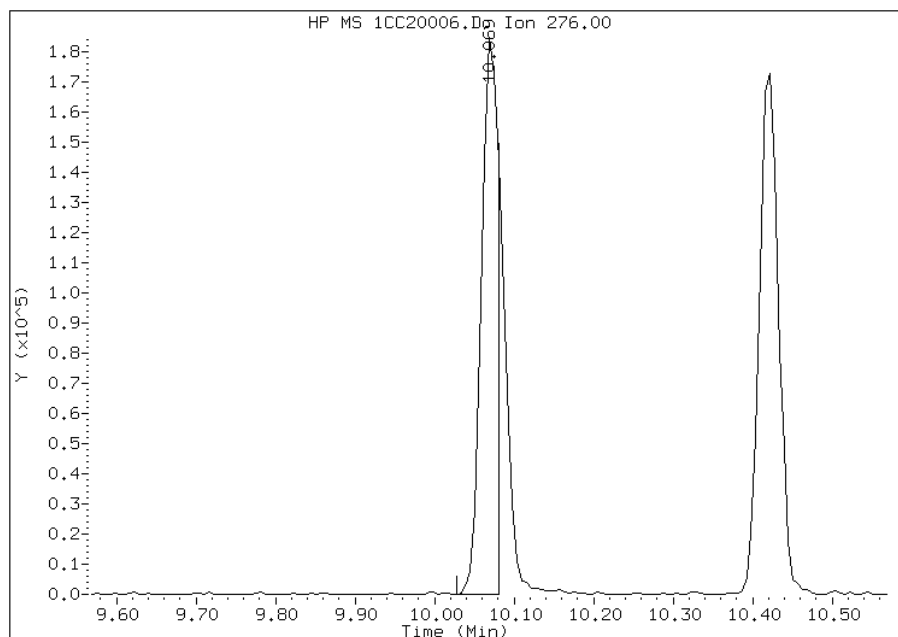
Processing Integration Results

RT: 10.07
Response: 345596
Amount: 9
Conc: 567



Manual Integration Results

RT: 10.07
Response: 270399
Amount: 7
Conc: 443



Manually Integrated By: cantins
Modification Date: 20-Mar-2013 16:28
Manual Integration Reason: Split Peak

Shipping and Receiving Documents

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE 35THAVE Removal	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 31 OF 3
---	------------------------------------	---------------------------------------	-------------	-------------------	----------------------------

TAL (LAB) PROJECT MANAGER LISA HARVEY	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY <input type="checkbox"/>
---	-------------	--------------	---

CLIENT NAME	CLIENT FAX	DATE DUE	EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>
-------------	------------	----------	--

CLIENT ADDRESS	CLIENT E-MAIL	DATE DUE	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:
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LL PAH	PCBA-8 METALS	PRESERVATIVE
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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS			
DATE	TIME							NUMBER OF CONTAINERS SUBMITTED													
01/13	8:50	CV0348A-CS	C	X	X	X	X														
	08:50	CV0348A-CS0	C	X	X	X	X														
	09:00	CV0348B-CS	C	X	X	X	X														
	09:20	CV0827A-CS	C	X	X	X	X														
	09:30	CV0827B-CS	C	X	X	X	X														
	09:40	CV0827C-CS	C	X	X	X	X														
	10:55	CV0853A-CS	C	X	X	X	X														
	11:05	CV0853B-GS	C	X	X	X	X														
	10:10	CV0910A-CS	C	X	X	X	X														
	10:20	CV0910B-CS	C	X	X	X	X														
	12:30	CV0207A-CS	C	X	X	X	X														
	12:30	CV0207A-CS (CV0207A-CS0)	C	X	X	X	X														

RELINQUISHED BY: (SIGNATURE) <i>Carl [Signature]</i>	DATE 3-8-13	TIME 12:00	RELINQUISHED BY: (SIGNATURE) <i>SMH</i>	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY											
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Beth A Dougherty</i>	DATE 3/19/13	TIME 09:57	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. <i>680-88176</i>	LABORATORY REMARKS <i>Temp 3.6°C</i>					

(b) (6)
(b) (6)
(b) (6)

ICVD This sample
-1ml/4
3-13-13

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.	COMPOSITE (C) OR GRAB (G) INDICATE AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...) LL PAH PCPA-8 METALS	PRESERVATIVE	STANDARD REPORT DELIVERY <input type="radio"/>
CLIENT FAX					DATE DUE _____
					DATE DUE _____
					NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

(b) (6)
(b) (6)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	INDICATE AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED										REMARKS			
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12	
3-7-13	1240	CV0207B-CS	C		X		X														
	1300	CV0252A-CS	C		X		X														
	1320	CV0473B-CS	C		X		X							X							
	1330	CV0473A-CS	C		X		X														
	1400	CV0457A-CS	C		X		X														
	1430	CV0067A-CS	C		X		X														
	1440	CV0067B-CS	C		X		X														
	1520	CV0590A-CS	C		X		X														
	1530	CV0590B-CS	C		X		X														
	0930	CV0827B-CS SIEVED	C		X									X							
	1320	CV0473B-CS SIEVED	C		X									X							

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 3-8-13	TIME 1200	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Breth a Daughtry</i>	DATE 3/9/13	TIME 0957	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 080-88176	LABORATORY REMARKS Temp 3.6°C
--	-----------------------	---------------------	---	------------------	-----------------------------------	---

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88176-1

SDG Number: 68088176-1

Login Number: 88176

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	Rec'd "CV0207A-CSD" w/time of 12:30 not listed on COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88176-1

SDG Number: 68088176-1

Login Number: 88176

List Source: TestAmerica Tampa

List Number: 1

List Creation: 03/13/13 10:32 AM

Creator: Snead, Joshua

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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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: 680-88176-1

TestAmerica Sample Delivery Group: 68088176-1

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

3/21/2013 5:42:07 PM

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

LINKS

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results through

Total Access

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www.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: 680-88176-1
SDG: 68088176-1

Job ID: 680-88176-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-88176-1

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 03/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0348A-CS (680-88176-1), CV0348A-CSD (680-88176-2), CV0348B-CS (680-88176-3), CV0827A-CS (680-88176-4), CV0827B-CS (680-88176-5), CV0827C-CS (680-88176-6), CV0853A-CS (680-88176-7), CV0853B-GS (680-88176-8), CV0910A-CS (680-88176-9), CV0910B-CS (680-88176-10), CV0207A-CS (680-88176-11), CV0207A-CSD (680-88176-12), CV0207B-CS (680-88176-13), CV0252A-CS (680-88176-14), CV0473B-CS (680-88176-15), CV0473A-CS (680-88176-16), CV0457A-CS (680-88176-17), CV0067A-CS (680-88176-18), CV0067B-CS (680-88176-19) and CV0590A-CS (680-88176-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C.

Several analytes were outside laboratory control limits in the MS and MSD of sample CV0827B-CS (680-88176-5) in batch 660-135624.

Method(s) 8270C LL: The following samples were diluted due to the color of the extracts: CV0348A-CS (680-88176-1), FM0116B-CS-SP (680-88118-21), FM0116B-CS-SP (680-88118-21 MS), FM0116B-CS-SP (680-88118-21 MSD). Elevated reporting limits (RL) are provided. Batch: 135469.

Method(s) 8270C LL: The following samples were diluted due to the color of the extracts: CV0457A-CS (680-88176-17), CV0827A-CS (680-88176-4), CV0827B-CS (680-88176-5), CV0827B-CS (680-88176-5 MS), CV0827B-CS (680-88176-5 MSD), CV0827C-CS (680-88176-6), CV0853B-GS (680-88176-8), CV0910A-CS (680-88176-9). Elevated reporting limits (RL) are provided. Batch: 135624.

Sample Summary

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

TestAmerica Job ID: 680-88176-1
SDG: 68088176-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-88176-1	CV0348A-CS	Solid	03/07/13 08:50	03/09/13 09:57
680-88176-2	CV0348A-CSD	Solid	03/07/13 08:50	03/09/13 09:57
680-88176-3	CV0348B-CS	Solid	03/07/13 09:00	03/09/13 09:57
680-88176-4	CV0827A-CS	Solid	03/07/13 09:20	03/09/13 09:57
680-88176-5	CV0827B-CS	Solid	03/07/13 09:30	03/09/13 09:57
680-88176-6	CV0827C-CS	Solid	03/07/13 09:40	03/09/13 09:57
680-88176-7	CV0853A-CS	Solid	03/07/13 10:55	03/09/13 09:57
680-88176-8	CV0853B-GS	Solid	03/07/13 11:05	03/09/13 09:57
680-88176-9	CV0910A-CS	Solid	03/07/13 10:10	03/09/13 09:57
680-88176-10	CV0910B-CS	Solid	03/07/13 10:20	03/09/13 09:57
680-88176-11	CV0207A-CS	Solid	03/07/13 12:30	03/09/13 09:57
680-88176-12	CV0207A-CSD	Solid	03/07/13 12:30	03/09/13 09:57
680-88176-13	CV0207B-CS	Solid	03/07/13 12:40	03/09/13 09:57
680-88176-14	CV0252A-CS	Solid	03/07/13 13:00	03/09/13 09:57
680-88176-15	CV0473B-CS	Solid	03/07/13 13:20	03/09/13 09:57
680-88176-16	CV0473A-CS	Solid	03/07/13 13:30	03/09/13 09:57
680-88176-17	CV0457A-CS	Solid	03/07/13 14:00	03/09/13 09:57
680-88176-18	CV0067A-CS	Solid	03/07/13 14:30	03/09/13 09:57
680-88176-19	CV0067B-CS	Solid	03/07/13 14:40	03/09/13 09:57
680-88176-20	CV0590A-CS	Solid	03/07/13 15:20	03/09/13 09:57

Method Summary

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

TestAmerica Job ID: 680-88176-1
SDG: 68088176-1

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: 680-88176-1
SDG: 68088176-1

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: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0348A-CS

Lab Sample ID: 680-88176-1

Date Collected: 03/07/13 08:50

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 77.5

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	☼	03/14/13 10:53	03/15/13 23:52	4
Acenaphthylene	210	U	210	26	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Anthracene	26	J	43	22	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Benzo[a]anthracene	150		41	20	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Benzo[a]pyrene	120		54	27	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Benzo[b]fluoranthene	220		63	32	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Benzo[g,h,i]perylene	100		100	23	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Benzo[k]fluoranthene	83		41	19	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Chrysene	140		47	23	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Dibenz(a,h)anthracene	31	J	100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Fluoranthene	160		100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Fluorene	100	U	100	21	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Indeno[1,2,3-cd]pyrene	71	J	100	37	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
1-Methylnaphthalene	29	J	210	23	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
2-Methylnaphthalene	210	U	210	37	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Naphthalene	68	J	210	23	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Phenanthrene	140		41	20	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4
Pyrene	200		100	19	ug/Kg	☼	03/14/13 10:53	03/15/13 23:52	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	62		30 - 130	03/14/13 10:53	03/15/13 23:52	4

Client Sample ID: CV0348A-CSD

Lab Sample ID: 680-88176-2

Date Collected: 03/07/13 08:50

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 64.6

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	31	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Acenaphthylene	11	J	61	7.7	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Anthracene	17		13	6.4	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Benzo[a]anthracene	88		12	6.0	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Benzo[a]pyrene	97		16	8.0	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Benzo[b]fluoranthene	190		19	9.4	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Benzo[g,h,i]perylene	93		31	6.7	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Benzo[k]fluoranthene	40		12	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Chrysene	120		14	6.9	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Dibenz(a,h)anthracene	19	J	31	6.3	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Fluoranthene	170		31	6.1	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Fluorene	12	J	31	6.3	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Indeno[1,2,3-cd]pyrene	60		31	11	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
1-Methylnaphthalene	45	J	61	6.7	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
2-Methylnaphthalene	57	J	61	11	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Naphthalene	69		61	6.7	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Phenanthrene	100		12	6.0	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1
Pyrene	150		31	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	46		30 - 130	03/18/13 13:53	03/20/13 11:51	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0348B-CS

Lab Sample ID: 680-88176-3

Date Collected: 03/07/13 09:00

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 74.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Acenaphthylene	9.0	J	54	6.7	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Anthracene	24		11	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Benzo[a]anthracene	130		11	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Benzo[a]pyrene	110		14	7.0	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Benzo[b]fluoranthene	200		16	8.2	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Benzo[g,h,i]perylene	67		27	5.9	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Benzo[k]fluoranthene	55		11	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Chrysene	160		12	6.0	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Dibenz(a,h)anthracene	29		27	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Fluoranthene	230		27	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Fluorene	19	J	27	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Indeno[1,2,3-cd]pyrene	81		27	9.5	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
1-Methylnaphthalene	29	J	54	5.9	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
2-Methylnaphthalene	52	J	54	9.5	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Naphthalene	71		54	5.9	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Phenanthrene	180		11	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Pyrene	190		27	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	70		30 - 130				03/18/13 13:53	03/20/13 12:09	1

Client Sample ID: CV0827A-CS

Lab Sample ID: 680-88176-4

Date Collected: 03/07/13 09:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 74.9

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	☼	03/18/13 13:53	03/20/13 12:28	4
Acenaphthylene	28	J	210	26	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Anthracene	31	J	44	22	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Benzo[a]anthracene	200		42	20	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Benzo[a]pyrene	200		54	27	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Benzo[b]fluoranthene	350		63	32	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Benzo[g,h,i]perylene	200		100	23	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Benzo[k]fluoranthene	100		42	19	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Chrysene	300		47	23	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Dibenz(a,h)anthracene	53	J	100	21	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Fluoranthene	360		100	21	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Fluorene	33	J	100	21	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Indeno[1,2,3-cd]pyrene	87	J	100	37	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
1-Methylnaphthalene	71	J	210	23	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
2-Methylnaphthalene	94	J	210	37	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Naphthalene	90	J	210	23	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Phenanthrene	300		42	20	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Pyrene	330		100	19	ug/Kg	☼	03/18/13 13:53	03/20/13 12:28	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		30 - 130				03/18/13 13:53	03/20/13 12:28	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0827B-CS

Lab Sample ID: 680-88176-5

Date Collected: 03/07/13 09:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 70.2

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	☼	03/18/13 13:53	03/20/13 12:46	4
Acenaphthylene	240	F	220	28	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Anthracene	110	F	47	23	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Benzo[a]anthracene	500	F	44	22	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Benzo[a]pyrene	350	F	58	29	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Benzo[b]fluoranthene	630	F	68	34	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Benzo[g,h,i]perylene	300	F	110	24	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Benzo[k]fluoranthene	220	F	44	20	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Chrysene	960	F	50	25	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Dibenz(a,h)anthracene	100	J F	110	23	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Fluoranthene	740	F	110	22	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Fluorene	100	J	110	23	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Indeno[1,2,3-cd]pyrene	160	F	110	39	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
1-Methylnaphthalene	1100	F	220	24	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
2-Methylnaphthalene	1100	F	220	39	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Naphthalene	1700	F	220	24	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Phenanthrene	1200	F	44	22	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Pyrene	700	F	110	21	ug/Kg	☼	03/18/13 13:53	03/20/13 12:46	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		30 - 130				03/18/13 13:53	03/20/13 12:46	4

Client Sample ID: CV0827C-CS

Lab Sample ID: 680-88176-6

Date Collected: 03/07/13 09:40

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 69.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Acenaphthylene	39	J	230	29	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Anthracene	56		49	24	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Benzo[a]anthracene	220		47	23	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Benzo[a]pyrene	230		60	30	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Benzo[b]fluoranthene	450		71	35	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Benzo[g,h,i]perylene	230		120	26	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Benzo[k]fluoranthene	130		47	21	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Chrysene	470		52	26	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Dibenz(a,h)anthracene	95	J	120	24	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Fluoranthene	340		120	23	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Fluorene	28	J	120	24	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Indeno[1,2,3-cd]pyrene	180		120	41	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
1-Methylnaphthalene	390		230	26	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
2-Methylnaphthalene	290		230	41	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Naphthalene	290		230	26	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Phenanthrene	450		47	23	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Pyrene	360		120	22	ug/Kg	☼	03/18/13 13:53	03/20/13 13:41	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		30 - 130				03/18/13 13:53	03/20/13 13:41	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0853A-CS

Lab Sample ID: 680-88176-7

Date Collected: 03/07/13 10:55

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 72.4

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	27	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Acenaphthylene	16	J	54	6.8	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Anthracene	48		11	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Benzo[a]anthracene	580		11	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Benzo[a]pyrene	890		14	7.1	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Benzo[b]fluoranthene	1700		17	8.3	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Benzo[g,h,i]perylene	980		27	6.0	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Benzo[k]fluoranthene	640		11	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Chrysene	870		12	6.1	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Dibenz(a,h)anthracene	280		27	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Fluoranthene	710		27	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Fluorene	30		27	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Indeno[1,2,3-cd]pyrene	780		27	9.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
1-Methylnaphthalene	160		54	6.0	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
2-Methylnaphthalene	160		54	9.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Naphthalene	120		54	6.0	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Phenanthrene	420		11	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Pyrene	670		27	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130				03/18/13 13:53	03/20/13 14:00	1

Client Sample ID: CV0853B-GS

Lab Sample ID: 680-88176-8

Date Collected: 03/07/13 11:05

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 63.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	620	U	620	120	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Acenaphthylene	31	J	250	31	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Anthracene	41	J	52	26	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Benzo[a]anthracene	250		50	24	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Benzo[a]pyrene	370		65	32	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Benzo[b]fluoranthene	790		76	38	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Benzo[g,h,i]perylene	410		120	27	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Benzo[k]fluoranthene	280		50	22	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Chrysene	440		56	28	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Dibenz(a,h)anthracene	150		120	26	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Fluoranthene	340		120	25	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Fluorene	34	J	120	26	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Indeno[1,2,3-cd]pyrene	300		120	44	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
1-Methylnaphthalene	100	J	250	27	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
2-Methylnaphthalene	160	J	250	44	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Naphthalene	200	J	250	27	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Phenanthrene	260		50	24	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Pyrene	280		120	23	ug/Kg	☼	03/18/13 13:53	03/20/13 14:18	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				03/18/13 13:53	03/20/13 14:18	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0910A-CS

Lab Sample ID: 680-88176-9

Date Collected: 03/07/13 10:10

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Acenaphthylene	95	J	200	25	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Anthracene	81		41	21	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Benzo[a]anthracene	470		39	19	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Benzo[a]pyrene	410		51	26	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Benzo[b]fluoranthene	790		60	30	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Benzo[g,h,i]perylene	390		98	22	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Benzo[k]fluoranthene	150		39	18	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Chrysene	840		44	22	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Dibenz(a,h)anthracene	140		98	20	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Fluoranthene	770		98	20	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Fluorene	61	J	98	20	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Indeno[1,2,3-cd]pyrene	240		98	35	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
1-Methylnaphthalene	690		200	22	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
2-Methylnaphthalene	890		200	35	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Naphthalene	450		200	22	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Phenanthrene	940		39	19	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Pyrene	700		98	18	ug/Kg	☼	03/18/13 13:53	03/20/13 14:36	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	73		30 - 130				03/18/13 13:53	03/20/13 14:36	4

Client Sample ID: CV0910B-CS

Lab Sample ID: 680-88176-10

Date Collected: 03/07/13 10:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 79.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Acenaphthylene	19	J	51	6.3	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Anthracene	26		11	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Benzo[a]anthracene	180		10	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Benzo[a]pyrene	140		13	6.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Benzo[b]fluoranthene	300		15	7.7	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Benzo[g,h,i]perylene	150		25	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Benzo[k]fluoranthene	73		10	4.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Chrysene	300		11	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Dibenz(a,h)anthracene	47		25	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Fluoranthene	220		25	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Fluorene	31		25	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Indeno[1,2,3-cd]pyrene	67		25	9.0	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
1-Methylnaphthalene	270		51	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
2-Methylnaphthalene	330		51	9.0	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Naphthalene	180		51	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Phenanthrene	390		10	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Pyrene	210		25	4.7	ug/Kg	☼	03/18/13 13:53	03/20/13 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				03/18/13 13:53	03/20/13 14:55	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0207A-CS

Lab Sample ID: 680-88176-11

Date Collected: 03/07/13 12:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 81.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Acenaphthylene	25	J	49	6.1	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Anthracene	48		10	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Benzo[a]anthracene	330		9.8	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Benzo[a]pyrene	410		13	6.3	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Benzo[b]fluoranthene	640		15	7.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Benzo[g,h,i]perylene	330		24	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Benzo[k]fluoranthene	240		9.8	4.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Chrysene	440		11	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Dibenz(a,h)anthracene	94		24	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Fluoranthene	490		24	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Fluorene	16	J	24	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Indeno[1,2,3-cd]pyrene	320		24	8.7	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
1-Methylnaphthalene	97		49	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
2-Methylnaphthalene	130		49	8.7	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Naphthalene	87		49	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Phenanthrene	250		9.8	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Pyrene	470		24	4.5	ug/Kg	☼	03/18/13 13:53	03/20/13 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	60		30 - 130				03/18/13 13:53	03/20/13 15:13	1

Client Sample ID: CV0207A-CSD

Lab Sample ID: 680-88176-12

Date Collected: 03/07/13 12:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Acenaphthylene	21	J	47	5.9	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Anthracene	20		9.9	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Benzo[a]anthracene	200		9.4	4.6	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Benzo[a]pyrene	250		12	6.1	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Benzo[b]fluoranthene	380		14	7.2	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Benzo[g,h,i]perylene	230		24	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Benzo[k]fluoranthene	170		9.4	4.2	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Chrysene	220		11	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Dibenz(a,h)anthracene	68		24	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Fluoranthene	230		24	4.7	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Fluorene	11	J	24	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Indeno[1,2,3-cd]pyrene	180		24	8.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
1-Methylnaphthalene	49		47	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
2-Methylnaphthalene	69		47	8.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Naphthalene	52		47	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Phenanthrene	110		9.4	4.6	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Pyrene	240		24	4.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	40		30 - 130				03/18/13 13:53	03/20/13 15:31	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0207B-CS

Lab Sample ID: 680-88176-13

Date Collected: 03/07/13 12:40

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 79.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Acenaphthylene	35	J	51	6.4	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Anthracene	54		11	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Benzo[a]anthracene	200		10	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Benzo[a]pyrene	200		13	6.6	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Benzo[b]fluoranthene	440		15	7.7	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Benzo[g,h,i]perylene	190		25	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Benzo[k]fluoranthene	91		10	4.6	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Chrysene	450		11	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Dibenz(a,h)anthracene	76		25	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Fluoranthene	320		25	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Fluorene	42		25	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Indeno[1,2,3-cd]pyrene	97		25	9.0	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
1-Methylnaphthalene	380		51	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
2-Methylnaphthalene	390		51	9.0	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Naphthalene	280		51	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Phenanthrene	450		10	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Pyrene	330		25	4.7	ug/Kg	☼	03/18/13 13:53	03/20/13 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	69		30 - 130				03/18/13 13:53	03/20/13 15:50	1

Client Sample ID: CV0252A-CS

Lab Sample ID: 680-88176-14

Date Collected: 03/07/13 13:00

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 72.8

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	27	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Acenaphthylene	190		55	6.8	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Anthracene	140		11	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Benzo[a]anthracene	560		11	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Benzo[a]pyrene	610		14	7.1	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Benzo[b]fluoranthene	1200		17	8.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Benzo[g,h,i]perylene	490		27	6.0	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Benzo[k]fluoranthene	380		11	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Chrysene	710		12	6.1	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Dibenz(a,h)anthracene	150		27	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Fluoranthene	760		27	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Fluorene	49		27	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Indeno[1,2,3-cd]pyrene	400		27	9.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
1-Methylnaphthalene	280		55	6.0	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
2-Methylnaphthalene	200		55	9.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Naphthalene	210		55	6.0	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Phenanthrene	590		11	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Pyrene	780		27	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	54		30 - 130				03/18/13 13:53	03/20/13 16:08	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0473B-CS

Lab Sample ID: 680-88176-15

Date Collected: 03/07/13 13:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Acenaphthylene	13	J	48	6.0	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Anthracene	11		10	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Benzo[a]anthracene	56		9.5	4.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Benzo[a]pyrene	47		12	6.2	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Benzo[b]fluoranthene	100		15	7.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Benzo[g,h,i]perylene	51		24	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Benzo[k]fluoranthene	33		9.5	4.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Chrysene	160		11	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Dibenz(a,h)anthracene	16	J	24	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Fluoranthene	110		24	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Fluorene	16	J	24	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Indeno[1,2,3-cd]pyrene	33		24	8.5	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
1-Methylnaphthalene	60		48	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
2-Methylnaphthalene	77		48	8.5	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Naphthalene	67		48	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Phenanthrene	180		9.5	4.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Pyrene	120		24	4.4	ug/Kg	☼	03/18/13 13:53	03/20/13 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	33		30 - 130				03/18/13 13:53	03/20/13 16:27	1

Client Sample ID: CV0473A-CS

Lab Sample ID: 680-88176-16

Date Collected: 03/07/13 13:30

Matrix: Solid

Date Received: 03/09/13 09:57

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	130	U	130	26	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Acenaphthylene	10	J	52	6.5	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Anthracene	8.6	J	11	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Benzo[a]anthracene	51		10	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Benzo[a]pyrene	43		14	6.8	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Benzo[b]fluoranthene	110		16	7.9	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Benzo[g,h,i]perylene	41		26	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Benzo[k]fluoranthene	37		10	4.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Chrysene	100		12	5.9	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Dibenz(a,h)anthracene	20	J	26	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Fluoranthene	83		26	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Fluorene	6.9	J	26	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Indeno[1,2,3-cd]pyrene	23	J	26	9.2	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
1-Methylnaphthalene	46	J	52	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
2-Methylnaphthalene	49	J	52	9.2	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Naphthalene	44	J	52	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Phenanthrene	88		10	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Pyrene	95		26	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	44		30 - 130				03/18/13 13:53	03/20/13 16:45	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0457A-CS

Lab Sample ID: 680-88176-17

Date Collected: 03/07/13 14:00

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	470	U	470	94	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Anthracene	71		40	20	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Benzo[a]anthracene	920		38	18	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Benzo[a]pyrene	1900		49	25	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Benzo[b]fluoranthene	2900		58	29	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Benzo[g,h,i]perylene	1400		94	21	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Benzo[k]fluoranthene	970		38	17	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Chrysene	930		42	21	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Dibenz(a,h)anthracene	390		94	19	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Fluoranthene	1100		94	19	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Fluorene	22	J	94	19	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Indeno[1,2,3-cd]pyrene	1400		94	34	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
1-Methylnaphthalene	92	J	190	21	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
2-Methylnaphthalene	150	J	190	34	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Naphthalene	110	J	190	21	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Phenanthrene	420		38	18	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Pyrene	690		94	17	ug/Kg	☼	03/18/13 13:53	03/20/13 17:03	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		30 - 130				03/18/13 13:53	03/20/13 17:03	4

Client Sample ID: CV0067A-CS

Lab Sample ID: 680-88176-18

Date Collected: 03/07/13 14:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 80.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Acenaphthylene	22	J	50	6.2	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Anthracene	34		10	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Benzo[a]anthracene	130		9.9	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Benzo[a]pyrene	130		13	6.5	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Benzo[b]fluoranthene	240		15	7.6	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Benzo[g,h,i]perylene	120		25	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Benzo[k]fluoranthene	56		9.9	4.5	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Chrysene	280		11	5.6	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Dibenz(a,h)anthracene	33		25	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Fluoranthene	240		25	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Fluorene	17	J	25	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Indeno[1,2,3-cd]pyrene	79		25	8.8	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
1-Methylnaphthalene	160		50	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
2-Methylnaphthalene	150		50	8.8	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Naphthalene	120		50	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Phenanthrene	350		9.9	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Pyrene	240		25	4.6	ug/Kg	☼	03/18/13 13:53	03/20/13 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	36		30 - 130				03/18/13 13:53	03/20/13 17:22	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0067B-CS

Lab Sample ID: 680-88176-19

Date Collected: 03/07/13 14:40

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 75.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	57	J	130	26	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Acenaphthylene	21	J	52	6.4	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Anthracene	74		11	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Benzo[a]anthracene	280		10	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Benzo[a]pyrene	220		13	6.7	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Benzo[b]fluoranthene	410		16	7.9	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Benzo[g,h,i]perylene	180		26	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Benzo[k]fluoranthene	140		10	4.6	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Chrysene	380		12	5.8	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Dibenz(a,h)anthracene	70		26	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Fluoranthene	490		26	5.2	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Fluorene	41		26	5.3	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Indeno[1,2,3-cd]pyrene	120		26	9.2	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
1-Methylnaphthalene	180		52	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
2-Methylnaphthalene	240		52	9.2	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Naphthalene	210		52	5.7	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Phenanthrene	470		10	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Pyrene	460		26	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	61		30 - 130				03/18/13 13:53	03/20/13 17:40	1

Client Sample ID: CV0590A-CS

Lab Sample ID: 680-88176-20

Date Collected: 03/07/13 15:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	31	J	120	24	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Acenaphthylene	37	J	49	6.1	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Anthracene	150		10	5.1	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Benzo[a]anthracene	2200		9.8	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Benzo[a]pyrene	3400		13	6.3	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Benzo[g,h,i]perylene	3200		24	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Benzo[k]fluoranthene	2700		9.8	4.4	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Chrysene	2900		11	5.5	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Dibenz(a,h)anthracene	1100		24	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Fluoranthene	2200		24	4.9	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Fluorene	58		24	5.0	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Indeno[1,2,3-cd]pyrene	3100		24	8.7	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
1-Methylnaphthalene	170		49	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
2-Methylnaphthalene	190		49	8.7	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Naphthalene	180		49	5.4	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Phenanthrene	800		9.8	4.8	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Pyrene	2100		24	4.5	ug/Kg	☼	03/18/13 13:53	03/20/13 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	49		30 - 130				03/18/13 13:53	03/20/13 17:59	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-88176-1
SDG: 68088176-1

Client Sample ID: CV0590A-CS

Lab Sample ID: 680-88176-20

Date Collected: 03/07/13 15:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 82.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	5700		60	30	ug/Kg	☼	03/18/13 13:53	03/21/13 12:29	4

1

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QC Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

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

Lab Sample ID: MB 660-135392/1-A

Matrix: Solid

Analysis Batch: 135469

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 135392

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Fluorene	20	U	20	4.1	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Naphthalene	40	U	40	4.4	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		03/14/13 10:53	03/15/13 16:51	1
Pyrene	20	U	20	3.7	ug/Kg		03/14/13 10:53	03/15/13 16:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	67		30 - 130	03/14/13 10:53	03/15/13 16:51	1

Lab Sample ID: LCS 660-135392/2-A

Matrix: Solid

Analysis Batch: 135469

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135392

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	659	486		ug/Kg		74	39 - 130
Acenaphthylene	659	499		ug/Kg		76	38 - 130
Anthracene	659	482		ug/Kg		73	37 - 130
Benzo[a]anthracene	659	483		ug/Kg		73	40 - 130
Benzo[a]pyrene	659	451		ug/Kg		68	49 - 130
Benzo[b]fluoranthene	659	451		ug/Kg		68	37 - 130
Benzo[g,h,i]perylene	659	483		ug/Kg		73	32 - 130
Benzo[k]fluoranthene	659	550		ug/Kg		83	32 - 130
Chrysene	659	458		ug/Kg		70	41 - 130
Dibenz(a,h)anthracene	659	475		ug/Kg		72	27 - 130
Fluoranthene	659	497		ug/Kg		75	40 - 130
Fluorene	659	539		ug/Kg		82	40 - 130
Indeno[1,2,3-cd]pyrene	659	441		ug/Kg		67	30 - 130
1-Methylnaphthalene	659	509		ug/Kg		77	31 - 130
2-Methylnaphthalene	659	494		ug/Kg		75	33 - 130
Naphthalene	659	490		ug/Kg		74	36 - 130
Phenanthrene	659	493		ug/Kg		75	42 - 130
Pyrene	659	499		ug/Kg		76	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

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

Lab Sample ID: LCS 660-135392/2-A
Matrix: Solid
Analysis Batch: 135469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135392

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	71		30 - 130

Lab Sample ID: MB 660-135508/1-A
Matrix: Solid
Analysis Batch: 135624

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 135508

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	99	U	99	20	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Acenaphthylene	40	U	40	5.0	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Anthracene	8.3	U	8.3	4.2	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Benzo[a]anthracene	7.9	U	7.9	3.9	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Benzo[a]pyrene	10	U	10	5.1	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Benzo[b]fluoranthene	12	U	12	6.0	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Benzo[k]fluoranthene	7.9	U	7.9	3.6	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Chrysene	8.9	U	8.9	4.5	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Fluoranthene	20	U	20	4.0	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Fluorene	20	U	20	4.1	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.0	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
2-Methylnaphthalene	40	U	40	7.0	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Naphthalene	40	U	40	4.4	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Phenanthrene	7.9	U	7.9	3.9	ug/Kg		03/18/13 13:53	03/20/13 11:14	1
Pyrene	20	U	20	3.7	ug/Kg		03/18/13 13:53	03/20/13 11:14	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o</i> -Terphenyl	87		30 - 130	03/18/13 13:53	03/20/13 11:14	1

Lab Sample ID: LCS 660-135508/2-A
Matrix: Solid
Analysis Batch: 135624

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 135508

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acenaphthene	655	469		ug/Kg		72	39 - 130
Acenaphthylene	655	496		ug/Kg		76	38 - 130
Anthracene	655	498		ug/Kg		76	37 - 130
Benzo[a]anthracene	655	508		ug/Kg		78	40 - 130
Benzo[a]pyrene	655	494		ug/Kg		75	49 - 130
Benzo[b]fluoranthene	655	552		ug/Kg		84	37 - 130
Benzo[g,h,i]perylene	655	457		ug/Kg		70	32 - 130
Benzo[k]fluoranthene	655	517		ug/Kg		79	32 - 130
Chrysene	655	469		ug/Kg		72	41 - 130
Dibenz(a,h)anthracene	655	488		ug/Kg		74	27 - 130
Fluoranthene	655	531		ug/Kg		81	40 - 130
Fluorene	655	493		ug/Kg		75	40 - 130
Indeno[1,2,3-cd]pyrene	655	443		ug/Kg		68	30 - 130
1-Methylnaphthalene	655	531		ug/Kg		81	31 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

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

Lab Sample ID: LCS 660-135508/2-A

Matrix: Solid

Analysis Batch: 135624

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 135508

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	655	525		ug/Kg		80	33 - 130
Naphthalene	655	512		ug/Kg		78	36 - 130
Phenanthrene	655	493		ug/Kg		75	42 - 130
Pyrene	655	519		ug/Kg		79	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	73		30 - 130

Lab Sample ID: 680-88176-5 MS

Matrix: Solid

Analysis Batch: 135624

Client Sample ID: CV0827B-CS

Prep Type: Total/NA

Prep Batch: 135508

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	550	U	929	606		ug/Kg	☼	65	39 - 130
Acenaphthylene	240	F	929	554	F	ug/Kg	☼	34	38 - 130
Anthracene	110	F	929	440	F	ug/Kg	☼	35	37 - 130
Benzo[a]anthracene	500	F	929	636	F	ug/Kg	☼	14	40 - 130
Benzo[a]pyrene	350	F	929	432	F	ug/Kg	☼	8	49 - 130
Benzo[b]fluoranthene	630	F	929	815	F	ug/Kg	☼	20	37 - 130
Benzo[g,h,i]perylene	300	F	929	533	F	ug/Kg	☼	25	32 - 130
Benzo[k]fluoranthene	220	F	929	386	F	ug/Kg	☼	18	32 - 130
Chrysene	960	F	929	1220	F	ug/Kg	☼	29	41 - 130
Dibenz(a,h)anthracene	100	J F	929	319	F	ug/Kg	☼	24	27 - 130
Fluoranthene	740	F	929	975	F	ug/Kg	☼	25	40 - 130
Fluorene	100	J	929	720		ug/Kg	☼	66	40 - 130
Indeno[1,2,3-cd]pyrene	160	F	929	334	F	ug/Kg	☼	19	30 - 130
1-Methylnaphthalene	1100	F	929	3490	F	ug/Kg	☼	258	31 - 130
2-Methylnaphthalene	1100	F	929	3340	F	ug/Kg	☼	242	33 - 130
Naphthalene	1700	F	929	4320	F	ug/Kg	☼	282	36 - 130
Phenanthrene	1200	F	929	2130		ug/Kg	☼	105	42 - 130
Pyrene	700	F	929	967	F	ug/Kg	☼	29	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	62		30 - 130

Lab Sample ID: 680-88176-5 MSD

Matrix: Solid

Analysis Batch: 135624

Client Sample ID: CV0827B-CS

Prep Type: Total/NA

Prep Batch: 135508

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	550	U	924	483	J	ug/Kg	☼	52	39 - 130	23	40
Acenaphthylene	240	F	924	575	F	ug/Kg	☼	36	38 - 130	4	40
Anthracene	110	F	924	565		ug/Kg	☼	49	37 - 130	25	40
Benzo[a]anthracene	500	F	924	810	F	ug/Kg	☼	33	40 - 130	24	40
Benzo[a]pyrene	350	F	924	641	F	ug/Kg	☼	31	49 - 130	39	40
Benzo[b]fluoranthene	630	F	924	971		ug/Kg	☼	37	37 - 130	17	40
Benzo[g,h,i]perylene	300	F	924	621		ug/Kg	☼	35	32 - 130	15	40
Benzo[k]fluoranthene	220	F	924	691	F	ug/Kg	☼	51	32 - 130	57	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

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

Lab Sample ID: 680-88176-5 MSD

Matrix: Solid

Analysis Batch: 135624

Client Sample ID: CV0827B-CS

Prep Type: Total/NA

Prep Batch: 135508

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chrysene	960	F	924	1210	F	ug/Kg	*	27	41 - 130	1	40
Dibenz(a,h)an hracene	100	J F	924	475		ug/Kg	*	40	27 - 130	39	40
Fluoranthene	740	F	924	1170		ug/Kg	*	46	40 - 130	18	40
Fluorene	100	J	924	595		ug/Kg	*	53	40 - 130	19	40
Indeno[1,2,3-cd]pyrene	160	F	924	574	F	ug/Kg	*	45	30 - 130	53	40
1-Methylnaphthalene	1100	F	924	1640	F	ug/Kg	*	60	31 - 130	72	40
2-Methylnaphthalene	1100	F	924	1480	F	ug/Kg	*	42	33 - 130	77	40
Naphthalene	1700	F	924	1440	F	ug/Kg	*	-28	36 - 130	100	40
Phenanthrene	1200	F	924	1300	F	ug/Kg	*	16	42 - 130	49	40
Pyrene	700	F	924	1080	F	ug/Kg	*	42	44 - 130	12	40
				MSD	MSD						
Surrogate	%Recovery	Qualifier	Limits								
<i>o</i> -Terphenyl	59		30 - 130								

QC Association Summary

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

GC/MS Semi VOA

Prep Batch: 135392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88176-1	CV0348A-CS	Total/NA	Solid	3546	
LCS 660-135392/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135392/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88176-1	CV0348A-CS	Total/NA	Solid	8270C LL	135392
LCS 660-135392/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135392
MB 660-135392/1-A	Method Blank	Total/NA	Solid	8270C LL	135392

Prep Batch 135508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88176-2	CV0348A-CSD	Total/NA	Solid	3546	
680-88176-3	CV0348B-CS	Total/NA	Solid	3546	
680-88176-4	CV0827A-CS	Total/NA	Solid	3546	
680-88176-5	CV0827B-CS	Total/NA	Solid	3546	
680-88176-5 MS	CV0827B-CS	Total/NA	Solid	3546	
680-88176-5 MSD	CV0827B-CS	Total/NA	Solid	3546	
680-88176-6	CV0827C-CS	Total/NA	Solid	3546	
680-88176-7	CV0853A-CS	Total/NA	Solid	3546	
680-88176-8	CV0853B-GS	Total/NA	Solid	3546	
680-88176-9	CV0910A-CS	Total/NA	Solid	3546	
680-88176-10	CV0910B-CS	Total/NA	Solid	3546	
680-88176-11	CV0207A-CS	Total/NA	Solid	3546	
680-88176-12	CV0207A-CSD	Total/NA	Solid	3546	
680-88176-13	CV0207B-CS	Total/NA	Solid	3546	
680-88176-14	CV0252A-CS	Total/NA	Solid	3546	
680-88176-15	CV0473B-CS	Total/NA	Solid	3546	
680-88176-16	CV0473A-CS	Total/NA	Solid	3546	
680-88176-17	CV0457A-CS	Total/NA	Solid	3546	
680-88176-18	CV0067A-CS	Total/NA	Solid	3546	
680-88176-19	CV0067B-CS	Total/NA	Solid	3546	
680-88176-20	CV0590A-CS	Total/NA	Solid	3546	
680-88176-20 - DL	CV0590A-CS	Total/NA	Solid	3546	
LCS 660-135508/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-135508/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 135624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88176-2	CV0348A-CSD	Total/NA	Solid	8270C LL	135508
680-88176-3	CV0348B-CS	Total/NA	Solid	8270C LL	135508
680-88176-4	CV0827A-CS	Total/NA	Solid	8270C LL	135508
680-88176-5	CV0827B-CS	Total/NA	Solid	8270C LL	135508
680-88176-5 MS	CV0827B-CS	Total/NA	Solid	8270C LL	135508
680-88176-5 MSD	CV0827B-CS	Total/NA	Solid	8270C LL	135508
680-88176-6	CV0827C-CS	Total/NA	Solid	8270C LL	135508
680-88176-7	CV0853A-CS	Total/NA	Solid	8270C LL	135508
680-88176-8	CV0853B-GS	Total/NA	Solid	8270C LL	135508
680-88176-9	CV0910A-CS	Total/NA	Solid	8270C LL	135508
680-88176-10	CV0910B-CS	Total/NA	Solid	8270C LL	135508
680-88176-11	CV0207A-CS	Total/NA	Solid	8270C LL	135508

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-88176-1
SDG: 68088176-1

GC/MS Semi VOA (Continued)

Analysis Batch: 135624 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88176-12	CV0207A-CSD	Total/NA	Solid	8270C LL	135508
680-88176-13	CV0207B-CS	Total/NA	Solid	8270C LL	135508
680-88176-14	CV0252A-CS	Total/NA	Solid	8270C LL	135508
680-88176-15	CV0473B-CS	Total/NA	Solid	8270C LL	135508
680-88176-16	CV0473A-CS	Total/NA	Solid	8270C LL	135508
680-88176-17	CV0457A-CS	Total/NA	Solid	8270C LL	135508
680-88176-18	CV0067A-CS	Total/NA	Solid	8270C LL	135508
680-88176-19	CV0067B-CS	Total/NA	Solid	8270C LL	135508
680-88176-20	CV0590A-CS	Total/NA	Solid	8270C LL	135508
LCS 660-135508/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	135508
MB 660-135508/1-A	Method Blank	Total/NA	Solid	8270C LL	135508

Analysis Batch: 135643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88176-20 - DL	CV0590A-CS	Total/NA	Solid	8270C LL	135508

General Chemistry

Analysis Batch: 135352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-88176-1	CV0348A-CS	Total/NA	Solid	Moisture	
680-88176-2	CV0348A-CSD	Total/NA	Solid	Moisture	
680-88176-3	CV0348B-CS	Total/NA	Solid	Moisture	
680-88176-4	CV0827A-CS	Total/NA	Solid	Moisture	
680-88176-5	CV0827B-CS	Total/NA	Solid	Moisture	
680-88176-5 MS	CV0827B-CS	Total/NA	Solid	Moisture	
680-88176-5 MSD	CV0827B-CS	Total/NA	Solid	Moisture	
680-88176-6	CV0827C-CS	Total/NA	Solid	Moisture	
680-88176-7	CV0853A-CS	Total/NA	Solid	Moisture	
680-88176-8	CV0853B-GS	Total/NA	Solid	Moisture	
680-88176-9	CV0910A-CS	Total/NA	Solid	Moisture	
680-88176-10	CV0910B-CS	Total/NA	Solid	Moisture	
680-88176-11	CV0207A-CS	Total/NA	Solid	Moisture	
680-88176-12	CV0207A-CSD	Total/NA	Solid	Moisture	
680-88176-13	CV0207B-CS	Total/NA	Solid	Moisture	
680-88176-14	CV0252A-CS	Total/NA	Solid	Moisture	
680-88176-15	CV0473B-CS	Total/NA	Solid	Moisture	
680-88176-16	CV0473A-CS	Total/NA	Solid	Moisture	
680-88176-17	CV0457A-CS	Total/NA	Solid	Moisture	
680-88176-18	CV0067A-CS	Total/NA	Solid	Moisture	
680-88176-19	CV0067B-CS	Total/NA	Solid	Moisture	
680-88176-20	CV0590A-CS	Total/NA	Solid	Moisture	
MB 660-135352/1	Method Blank	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0348A-CS

Lab Sample ID: 680-88176-1

Date Collected: 03/07/13 08:50

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135392	03/14/13 10:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135469	03/15/13 23:52	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0348A-CSD

Lab Sample ID: 680-88176-2

Date Collected: 03/07/13 08:50

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 64.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 11:51	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0348B-CS

Lab Sample ID: 680-88176-3

Date Collected: 03/07/13 09:00

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 12:09	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0827A-CS

Lab Sample ID: 680-88176-4

Date Collected: 03/07/13 09:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 74.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135624	03/20/13 12:28	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0827B-CS

Lab Sample ID: 680-88176-5

Date Collected: 03/07/13 09:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 70.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135624	03/20/13 12:46	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0827C-CS

Lab Sample ID: 680-88176-6

Date Collected: 03/07/13 09:40

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 69.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135624	03/20/13 13:41	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0853A-CS

Lab Sample ID: 680-88176-7

Date Collected: 03/07/13 10:55

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 72.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 14:00	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0853B-GS

Lab Sample ID: 680-88176-8

Date Collected: 03/07/13 11:05

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 63.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135624	03/20/13 14:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0910A-CS

Lab Sample ID: 680-88176-9

Date Collected: 03/07/13 10:10

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135624	03/20/13 14:36	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0910B-CS

Lab Sample ID: 680-88176-10

Date Collected: 03/07/13 10:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 79.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 14:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0207A-CS

Lab Sample ID: 680-88176-11

Date Collected: 03/07/13 12:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 15:13	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0207A-CSD

Lab Sample ID: 680-88176-12

Date Collected: 03/07/13 12:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 15:31	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0207B-CS

Lab Sample ID: 680-88176-13

Date Collected: 03/07/13 12:40

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 15:50	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0252A-CS

Lab Sample ID: 680-88176-14

Date Collected: 03/07/13 13:00

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 72.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 16:08	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0473B-CS

Lab Sample ID: 680-88176-15

Date Collected: 03/07/13 13:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 16:27	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Client Sample ID: CV0473A-CS

Lab Sample ID: 680-88176-16

Date Collected: 03/07/13 13:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 16:45	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0457A-CS

Lab Sample ID: 680-88176-17

Date Collected: 03/07/13 14:00

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		4	135624	03/20/13 17:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0067A-CS

Lab Sample ID: 680-88176-18

Date Collected: 03/07/13 14:30

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 17:22	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0067B-CS

Lab Sample ID: 680-88176-19

Date Collected: 03/07/13 14:40

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 75.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 17:40	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

Client Sample ID: CV0590A-CS

Lab Sample ID: 680-88176-20

Date Collected: 03/07/13 15:20

Matrix: Solid

Date Received: 03/09/13 09:57

Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	135624	03/20/13 17:59	SCC	TAL TAM
Total/NA	Prep	3546	DL		135508	03/18/13 13:53	SC	TAL TAM
Total/NA	Analysis	8270C LL	DL	4	135643	03/21/13 12:29	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	135352	03/13/13 13:07	AG	TAL TAM

TestAmerica Savannah

Lab Chronicle

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

TestAmerica Job ID: 680-88176-1
SDG: 68088176-1

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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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 3511AVE Removal	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS					PAGE 21 OF 3
TAL (LAB) PROJECT MANAGER LISA HARVEY	P.O. NUMBER	CONTRACT NO.	CLIENT FAX	LL PAH PCBs - 8 METALS PRESERVATIVE					STANDARD REPORT DELIVERY <input type="checkbox"/>
CLIENT NAME	CLIENT E-MAIL								DATE DUE
				NUMBER OF COOLERS SUBMITTED PER SHIPMENT:					EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="checkbox"/>
									DATE DUE

(b) (6)

(b) (6)

(b) (6)

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SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED					REMARKS
DATE	TIME												
3/7/13	8:50	CV0348A-CS	C	X	X		X						
	08:50	CV0348A-CS0	C	X	X		X						
	09:00	CV0348B-CS	C	X	X		X						
	09:20	CV0827A-CS	C	X	X		X						
	09:30	CV0827B-CS	C	X	X		X	X					
	09:40	CV0827C-CS	C	X	X		X						
	10:55	CV0853A-CS	C	X	X		X						
	11:05	CV0853B-GS	G	X	X		X						
	10:10	CV0910A-CS	C	X	X		X						
	10:20	CV0910B-CS	C	X	X		X						
	12:30	CV0207A-CS	C	X	X		X						
	12:30	CV0207A-CS (CV0207A-CS0)	C	X	X		X						ICVD this sample

RELINQUISHED BY: (SIGNATURE) <i>Carl Miller</i>	DATE 3-8-13	TIME 12:00	RELINQUISHED BY: (SIGNATURE) <i>LMH</i>	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>Beth O'Dougherty</i>		DATE 3/11/13	TIME 09:57	CUSTODY INTACT YES <input type="checkbox"/> NO <input type="checkbox"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-88176	LABORATORY REMARKS <i>Temp 3.6°C</i>
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3/21/2013



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88176-1

SDG Number: 68088176-1

Login Number: 88176

List Number: 1

Creator: Daughtry, Beth

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	Rec'd "CV0207A-CSD" w/time of 12:30 not listed on COC
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-88176-1

SDG Number: 68088176-1

Login Number: 88176

List Number: 1

Creator: Snead, Joshua

List Source: TestAmerica Tampa

List Creation: 03/13/13 10:32 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.	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	



Certification Summary

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

TestAmerica Job ID: 680-88176-1
 SDG: 68088176-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	03-31-13
A2LA	ISO/IEC 17025		399.01	03-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	03-31-13
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
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

TestAmerica Savannah

Certification Summary

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

TestAmerica Job ID: 680-88176-1
SDG: 68088176-1

Laboratory: TestAmerica Tampa (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

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