

Data Validation Checklist Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil and Water
 Reviewer: Karen Marie Trujillo
 Concurrence²: Nicole Lancaster

Project No: 15268508.20000
 Job ID.: 680-89695-2
 Associated Samples: Refer to **Attachment A** (Sample Summary)
 Samples Collected: 04/23/2013
 Date: 05/20/2013
 Date: 05/22/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 042313-RB-Sieve (680-89695-35).	

¹ All analytical work subcontracted to TestAmerica of Tampa, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 042313-RB-Sieve (680-89695-35) was collected during the week of 4/22/13. The rinsate blank was analyzed for PAHs under this Test America Job ID.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			CV1235D-CSD (680-89695-27) is a field duplicate of CV1235D-CS (680-89695-26).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> • Instrument ID: BSMA5973 • Initial Calibration: 04/26/2013 • ICV: 04/26/13 @ 11:49 • CCV: 04/29/13 @ 12:29 • CCV: 05/01/13 @ 14:15 	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> • ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> ○ If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects ○ If mean RRF < 0.050 (< 0.010 for poor performers), then 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>J-flag positive results and R-flag non-detects</p> <ul style="list-style-type: none"> ICV and CCV (Criteria: $\leq 20\%D$ ($\leq 50\%$ for poor performers) and $RF \geq 0.050$ (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> If $\%D > 20$ ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects If $RF < 0.050$ (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 					
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	✓				
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> Soil: <ul style="list-style-type: none"> Prep Batch 136938: 680-89695-21 (CV1158A-CS), MS/MSD Prep Batch 136855: 680-89695-4 (CV1329A-CS), MS/MSD. Lab sample 680-89695-4 is a project-specific sample (CV1329A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-89695-1. Water: Prep Batch 136981: 680-89695-35 (042313-RB-Sieve), MS only due to limited sample volume. LCSD duplicate analysis conducted in lieu of MSD analysis. 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> If the native sample concentration $> 4x$ spiking level, then an evaluation of interference is not possible. If either MS or MSD recovery meets control limits, qualification of data is not warranted. MS and MSD $\%R < 10$: J and R Flag positive and ND 		✓		<ul style="list-style-type: none"> Soil: CV1158A-CS (680-89695-21): <ul style="list-style-type: none"> Benzo[a]pyrene @ 72 and 47 $\%R$ (49-130). Qualification of data not required³. Chrysene @ 70 and 38 $\%R$ (41-130). Qualification of data not required³. Fluoranthene @ 86 and 39 $\%R$ (40-130). Qualification of data not required³. Pyrene @ 79 and 34 $\%R$ (44-130). Qualification 	UJ/R

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

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>results, respectively</p> <ul style="list-style-type: none"> MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results MS and MSD R% >UCL (or 140): J-Flag positive results 				<p>of data not required³.</p> <ul style="list-style-type: none"> Water: CV1158B-CS (680-89695-35): Refer to Attachment C (MS Results with flagging) 	
<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 > UCL, J-flag positive result and UJ-flag non-detect result. 		✓		<p>Soil, CV1158A-CS (680-89695-21):</p> <ul style="list-style-type: none"> Fluoranthene @ 42 %RPD (≤40). J-Flag Pyrene @ 44 %RPD (≤40). J-Flag 	J
<p>27. Were surrogate recoveries within lab/project specifications?</p> <ul style="list-style-type: none"> If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results If 2 or more Acid or BN %R >UCL, then J-flag positive results If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results 		✓		<p>CV1235B-CS (680-89695-24): o-Terphenyl @ 21 %R (30-130%R). J and UJ-Flag all positive and ND results, respectively.</p>	J/UJ
<p>28. Were internal standard (IS) results within lab/project specifications?</p> <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 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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>					

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: 680-89695-2
SDG: 68089695-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89695-21	CV1158A-CS	Solid	04/23/13 14:45	04/25/13 08:40
680-89695-22	CV1158B-CS	Solid	04/23/13 15:00	04/25/13 08:40
680-89695-23	CV1235A-CS	Solid	04/23/13 13:10	04/25/13 08:40
680-89695-24	CV1235B-CS	Solid	04/23/13 13:20	04/25/13 08:40
680-89695-25	CV1235C-CS	Solid	04/23/13 13:30	04/25/13 08:40
680-89695-26	CV1235D-CS	Solid	04/23/13 13:40	04/25/13 08:40
680-89695-27	CV1235D-CSD	Solid	04/23/13 13:40	04/25/13 08:40
680-89695-28	CV1324A-CS	Solid	04/23/13 14:20	04/25/13 08:40
680-89695-29	CV0686A-CS-SP	Solid	04/23/13 14:59	04/25/13 08:40
680-89695-30	CV0686B-CS-SP	Solid	04/23/13 15:03	04/25/13 08:40
680-89695-31	CV0686C-GS-SP	Solid	04/23/13 15:22	04/25/13 08:40
680-89695-35	042313-RB-Sieve	Water	04/23/13 10:00	04/25/13 08:40

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV1235D-CS 680-89695-26	RL	CV1235D-CSD 680-89695-27	RL	Unit	Avg. RL x5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	77	J 190	94	47	µg/kg	592.5	NA	17	237	None, absolute difference ≤ 2x Avg RL
Anthracene	120	41	120	9.9	µg/kg	127.25	NA	0	50.9	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	200	39	320	9.4	µg/kg	121	46	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	210	50	460	12	µg/kg	155	75	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	470	59	910	14	µg/kg	182.5	64	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	160	97	330	24	µg/kg	302.5	NA	170	121	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(k)fluoranthene	100	39	250	9.4	µg/kg	121	NA	150	48.4	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	320	44	390	11	µg/kg	137.5	20	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	49	J 97	130	24	µg/kg	302.5	NA	81	121	None, absolute difference ≤ 2x Avg RL
Fluoranthene	440	97	390	24	µg/kg	302.5	12	NA	NA	None, RPD ≤ 50%
Fluorene		97	15	J 24	µg/kg	302.5	NA	15	121	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	170	97	350	24	µg/kg	302.5	NA	180	121	J/UJ-flag, absolute difference > 2x Avg RL
1-Methylnaphthalene	100	J 190	84	47	µg/kg	592.5	NA	16	237	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	120	J 190	110	47	µg/kg	592.5	NA	10	237	None, absolute difference ≤ 2x Avg RL
Naphthalene	95	J 190	150	47	µg/kg	592.5	NA	55	237	None, absolute difference ≤ 2x Avg RL
Phenanthrene	280	39	180	9.4	µg/kg	121	43	NA	NA	None, RPD ≤ 50%
Pyrene	290	97	380	24	µg/kg	302.5	NA	90	121	None, absolute difference ≤ 2x Avg RL

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

µg/kg - micrograms per kilogram

J - Estimated value

UJ - Not detected and the limit is estimated

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

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

ATTACHMENT C

**MATRIX SPIKE EVALUATION
680-89695-35 (042313-RB-Sieve)**

QC Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

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

Lab Sample ID: 680-89695-35 MS
 Matrix: Water
 Analysis Batch: 137001

Client Sample ID: 042313-RB-Sieve
 Prep Type: Total/NA
 Prep Batch: 136981

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier	Added	Result	Qualifier					
Acenaphthene	2.2	UF	10.1	4.16	F	ug/L		41	55 - 132	UJ Flag
Acenaphthylene	1.1	U	10.1	4.19		ug/L		41	39 - 130	
Anthracene	0.22	U	10.1	4.55		ug/L		45	39 - 130	
Benzo[a]anthracene	0.22	UF	10.1	3.83	F	ug/L		38	54 - 135	UJ Flag
Benzo[a]pyrene	0.22	U	10.1	2.14		ug/L		21	21 - 130	
Benzo[b]fluoranthene	0.22	UF	10.1	2.86	F	ug/L		28	37 - 130	UJ Flag
Benzo[g,h,i]perylene	0.55	UF	10.1	0.732	F	ug/L		7	26 - 130	R Flag
Benzo[k]fluoranthene	0.22	UF	10.1	2.27	F	ug/L		22	38 - 130	UJ Flag
Chrysene	0.22	UF	10.1	2.95	F	ug/L		29	56 - 130	UJ Flag
Dibenz[a,h]anthracene	0.22	UF	10.1	0.925	F	ug/L		9	13 - 130	R Flag
Fluoranthene	0.55	UF	10.1	5.14	F	ug/L		51	60 - 130	UJ Flag
Fluorene	2.2	UF	10.1	4.36	F	ug/L		43	55 - 140	UJ Flag
Indeno[1,2,3-cd]pyrene	0.22	UF	10.1	1.20	F	ug/L		12	21 - 130	UJ Flag
1-Methylnaphthalene	2.2	U	10.1	4.92		ug/L		49	49 - 130	
2-Methylnaphthalene	2.2	UF	10.1	4.74	F	ug/L		47	48 - 130	UJ Flag
Naphthalene	2.2	UF	10.1	5.16	F	ug/L		51	54 - 133	UJ Flag
Phenanthrene	0.55	UF	10.1	4.44	F	ug/L		44	60 - 136	UJ Flag
Pyrene	0.55	UF	10.1	3.96	F	ug/L		39	60 - 138	UJ Flag
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
<i>o</i> -Terphenyl	41		30 - 130							



ATTACHMENT D
CASE NARRATIVE

Case Narrative

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

TestAmerica Job ID: 680-89695-2
SDG: 68089695-2

Job ID: 680-89695-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89695-2

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

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

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

RECEIPT

The samples were received on 04/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1158A-CS (680-89695-21), CV1158B-CS (680-89695-22), CV1235A-CS (680-89695-23), CV1235B-CS (680-89695-24), CV1235C-CS (680-89695-25), CV1235D-CS (680-89695-26), CV1235D-CSD (680-89695-27), CV1324A-CS (680-89695-28), CV0686A-CS-SP (680-89695-29), CV0686B-CS-SP (680-89695-30) and CV0686C-GS-SP (680-89695-31) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/26/2013 and 04/29/2013 and analyzed on 04/29/2013 and 05/01/2013.

Samples CV1158A-CS (680-89695-21)[4X], CV1235A-CS (680-89695-23)[4X], CV1235C-CS (680-89695-25)[4X], CV1235D-CS (680-89695-26)[4X], CV1324A-CS (680-89695-28)[4X] and CV0686C-GS-SP (680-89695-31)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl recovered outside the surrogate recovery criteria for CV1235B-CS (680-89695-24).

Several analytes recovered outside the recovery criteria for the MSD of sample CV1158A-CS (680-89695-21) in batch 660-137001. Fluoranthene and Pyrene exceeded the rpd limit.

Several analytes recovered outside the recovery criteria low for the MS/MSD of sample 680-89695-4 in batch 660-136961.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)-Waters

Sample 042313-RB-Sieve (680-89695-35) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/30/2013 and analyzed on 05/01/2013.

Several analytes recovered outside the recovery criteria low for the MS of sample 042313-RB-SieveMS (680-89695-35) in batch 660-137001.

No other difficulties were encountered during the semivolatiles analysis.

Case Narrative

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

TestAmerica Job ID: 680-89695-2
SDG: 68089695-2

Job ID: 680-89695-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All other quality control parameters were within the acceptance limits.

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ATTACHMENT E
QUALIFIED SAMPLE RESULTS

Client Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV1158A-CS

Lab Sample ID: 680-89695-21

Date Collected: 04/23/13 14:45

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 82.3

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	97	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Anthracene	56		41	20	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Benzo[a]anthracene	240		39	19	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Benzo[a]pyrene	210	F	51	25	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Benzo[b]fluoranthene	310		59	30	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Benzo[g,h,i]perylene	200		97	21	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Benzo[k]fluoranthene	140		39	18	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Chrysene	270	F	44	22	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Dibenz(a,h)anthracene	43	J	97	20	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Fluoranthene	410	FJ	97	19	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Fluorene	23	J	97	20	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Indeno[1,2,3-cd]pyrene	190		97	35	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
1-Methylnaphthalene	56	J	190	21	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
2-Methylnaphthalene	69	J	190	35	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Naphthalene	58	J	190	21	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Phenanthrene	270		39	19	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Pyrene	380	FJ	97	18	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	55		30 - 130	04/29/13 14:27	05/01/13 15:32	4

Client Sample ID: CV1158B-CS

Lab Sample ID: 680-89695-22

Date Collected: 04/23/13 15:00

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Acenaphthylene	57		50	6.2	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Anthracene	140		10	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Benzo[a]anthracene	290		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Benzo[a]pyrene	260		13	6.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Benzo[b]fluoranthene	460		15	7.6	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Benzo[g,h,i]perylene	180		25	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Benzo[k]fluoranthene	140		10	4.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Chrysene	330		11	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Dibenz(a,h)anthracene	58		25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Fluoranthene	730		25	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Fluorene	49		25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Indeno[1,2,3-cd]pyrene	200		25	8.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
1-Methylnaphthalene	44	J	50	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
2-Methylnaphthalene	50		50	8.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Naphthalene	53		50	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Phenanthrene	560		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Pyrene	470		25	4.6	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	46		30 - 130	04/26/13 07:28	04/29/13 17:55	1

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 (OTTE, October 2012)

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV1235A-CS

Lab Sample ID: 680-89695-23

Date Collected: 04/23/13 13:10

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	95	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Acenaphthylene	46	J	190	24	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Anthracene	54		40	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Benzo[a]anthracene	110		38	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Benzo[a]pyrene	100		50	25	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Benzo[b]fluoranthene	180		58	29	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Benzo[g,h,i]perylene	81	J	95	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Benzo[k]fluoranthene	49		38	17	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Chrysene	120		43	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Dibenz(a,h)anthracene	20	J	95	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Fluoranthene	190		95	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Fluorene	95	U	95	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Indeno[1,2,3-cd]pyrene	82	J	95	34	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
1-Methylnaphthalene	36	J	190	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
2-Methylnaphthalene	190	U	190	34	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Naphthalene	24	J	190	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Phenanthrene	110		38	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Pyrene	120		95	18	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				04/26/13 07:28	04/29/13 18:10	4

Client Sample ID: CV1235B-CS

Lab Sample ID: 680-89695-24

Date Collected: 04/23/13 13:20

Matrix: Solid

Date Received: 04/25/13 08:40

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 J	120	25	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Acenaphthylene	53	J	50	6.2	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Anthracene	84	J	10	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Benzo[a]anthracene	130	J	10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Benzo[a]pyrene	110	J	13	6.5	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Benzo[b]fluoranthene	210	J	15	7.6	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Benzo[g,h,i]perylene	75	J	25	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Benzo[k]fluoranthene	74	J	10	4.5	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Chrysene	160	J	11	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Dibenz(a,h)anthracene	30	J	25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Fluoranthene	250	J	25	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Fluorene	17	J	25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Indeno[1,2,3-cd]pyrene	80	J	25	8.9	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
1-Methylnaphthalene	170	J	50	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
2-Methylnaphthalene	160	J	50	8.9	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Naphthalene	110	J	50	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Phenanthrene	240	J	10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Pyrene	170	J	25	4.6	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	21	X	30 - 130				04/26/13 07:28	04/29/13 18:25	1

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 (OTTE, October 2012)

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV1235C-CS

Lab Sample ID: 680-89695-25

Date Collected: 04/23/13 13:30

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Acenaphthylene	36	J	200	24	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Anthracene	48		41	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Benzo[a]anthracene	150		39	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Benzo[a]pyrene	140		51	25	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Benzo[b]fluoranthene	240		60	30	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Benzo[g,h,i]perylene	97	J	98	22	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Benzo[k]fluoranthene	74		39	18	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Chrysene	170		44	22	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Dibenz(a,h)anthracene	27	J	98	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Fluoranthene	220		98	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Fluorene	98	U	98	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Indeno[1,2,3-cd]pyrene	100		98	35	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
1-Methylnaphthalene	59	J	200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
2-Methylnaphthalene	72	J	200	35	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Naphthalene	70	J	200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Phenanthrene	150		39	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Pyrene	150		98	18	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				04/26/13 07:28	04/29/13 18:40	4

Client Sample ID: CV1235D-CS

Lab Sample ID: 680-89695-26

Date Collected: 04/23/13 13:40

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	97	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Acenaphthylene	77	J	190	24	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Anthracene	120		41	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Benzo[a]anthracene	200		39	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Benzo[a]pyrene	210	J	50	25	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Benzo[b]fluoranthene	470	J	59	30	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Benzo[g,h,i]perylene	160	J	97	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Benzo[k]fluoranthene	100	J	39	17	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Chrysene	320		44	22	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Dibenz(a,h)anthracene	49	J	97	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Fluoranthene	440		97	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Fluorene	97	U	97	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Indeno[1,2,3-cd]pyrene	170	J	97	34	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
1-Methylnaphthalene	100	J	190	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
2-Methylnaphthalene	120	J	190	34	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Naphthalene	95	J	190	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Phenanthrene	280		39	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Pyrene	290		97	18	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				04/26/13 07:28	04/29/13 18:55	4

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 (OTTE, October 2012)

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV1235D-CSD

Lab Sample ID: 680-89695-27

Date Collected: 04/23/13 13:40

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Acenaphthylene	94		47	5.9	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Anthracene	120		9.9	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Benzo[a]anthracene	320		9.4	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Benzo[a]pyrene	460	J	12	6.1	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Benzo[b]fluoranthene	910	J	14	7.2	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Benzo[g,h,i]perylene	330	J	24	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Benzo[k]fluoranthene	250	J	9.4	4.2	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Chrysene	390		11	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Dibenz(a,h)anthracene	130		24	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Fluoranthene	390		24	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Fluorene	15	J	24	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Indeno[1,2,3-cd]pyrene	350	J	24	8.4	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
1-Methylnaphthalene	84		47	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
2-Methylnaphthalene	110		47	8.4	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Naphthalene	150		47	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Phenanthrene	180		9.4	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Pyrene	380		24	4.4	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	51		30 - 130				04/29/13 14:27	05/01/13 16:33	1

Client Sample ID: CV1324A-CS

Lab Sample ID: 680-89695-28

Date Collected: 04/23/13 14:20

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 75.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Acenaphthylene	210	U	210	27	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Anthracene	49		45	22	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Benzo[a]anthracene	170		42	21	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Benzo[a]pyrene	140		55	28	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Benzo[b]fluoranthene	260		65	32	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Benzo[g,h,i]perylene	130		110	23	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Benzo[k]fluoranthene	91		42	19	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Chrysene	170		48	24	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Dibenz(a,h)anthracene	37	J	110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Fluoranthene	220		110	21	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Fluorene	110	U	110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Indeno[1,2,3-cd]pyrene	120		110	38	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
1-Methylnaphthalene	46	J	210	23	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
2-Methylnaphthalene	48	J	210	38	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Naphthalene	45	J	210	23	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Phenanthrene	110		42	21	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Pyrene	170		110	20	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	40		30 - 130				04/29/13 14:27	05/01/13 16:48	4

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 (OTTE, October 2012)

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV0686A-CS-SP

Lab Sample ID: 680-89695-29

Date Collected: 04/23/13 14:59

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 75.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Acenaphthylene	48	J	53	6.6	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Anthracene	73		11	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Benzo[a]anthracene	200		11	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Benzo[a]pyrene	170		14	6.9	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Benzo[b]fluoranthene	330		16	8.0	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Benzo[g,h,i]perylene	130		26	5.8	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Benzo[k]fluoranthene	83		11	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Chrysene	300		12	5.9	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Dibenz(a,h)anthracene	50		26	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Fluoranthene	280		26	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Fluorene	30		26	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Indeno[1,2,3-cd]pyrene	140		26	9.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
1-Methylnaphthalene	130		53	5.8	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
2-Methylnaphthalene	160		53	9.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Naphthalene	170		53	5.8	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Phenanthrene	240		11	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Pyrene	190		26	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	44		30 - 130				04/29/13 14:27	05/01/13 17:03	1

Client Sample ID: CV0686B-CS-SP

Lab Sample ID: 680-89695-30

Date Collected: 04/23/13 15:03

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Acenaphthylene	48	U	48	5.9	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Anthracene	10	U	10	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Benzo[a]anthracene	24		9.5	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Benzo[a]pyrene	19		12	6.2	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Benzo[b]fluoranthene	32		15	7.3	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Benzo[g,h,i]perylene	17	J	24	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Benzo[k]fluoranthene	12		9.5	4.3	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Chrysene	26		11	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Dibenz(a,h)anthracene	5.0	J	24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Fluoranthene	22	J	24	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Fluorene	24	U	24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Indeno[1,2,3-cd]pyrene	16	J	24	8.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
1-Methylnaphthalene	19	J	48	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
2-Methylnaphthalene	22	J	48	8.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Naphthalene	20	J	48	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Phenanthrene	28		9.5	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Pyrene	19	J	24	4.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	51		30 - 130				04/29/13 14:27	05/01/13 17:18	1

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 (OTTE, October 2012)

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV0686C-GS-SP

Lab Sample ID: 680-89695-31

Date Collected: 04/23/13 15:22

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Acenaphthylene	46	J	200	25	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Anthracene	85		42	21	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Benzo[a]anthracene	220		40	19	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Benzo[a]pyrene	180		52	26	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Benzo[b]fluoranthene	270		61	30	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Benzo[g,h,i]perylene	160		100	22	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Benzo[k]fluoranthene	68		40	18	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Chrysene	280		45	22	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Dibenz(a,h)anthracene	44	J	100	20	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Fluoranthene	310		100	20	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Fluorene	49	J	100	20	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Indeno[1,2,3-cd]pyrene	120		100	35	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
1-Methylnaphthalene	180	J	200	22	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
2-Methylnaphthalene	220		200	35	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Naphthalene	260		200	22	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Phenanthrene	340		40	19	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Pyrene	290		100	18	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				04/29/13 14:27	05/01/13 17:33	4

Client Sample ID: 042313-RB-Sieve

Lab Sample ID: 680-89695-35

Date Collected: 04/23/13 10:00

Matrix: Water

Date Received: 04/25/13 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.2	U F J	2.2	0.55	ug/L		04/30/13 16:50	05/01/13 21:49	1
Acenaphthylene	1.1	U	1.1	0.27	ug/L		04/30/13 16:50	05/01/13 21:49	1
Anthracene	0.22	U	0.22	0.084	ug/L		04/30/13 16:50	05/01/13 21:49	1
Benzo[a]anthracene	0.22	U F J	0.22	0.055	ug/L		04/30/13 16:50	05/01/13 21:49	1
Benzo[a]pyrene	0.22	U	0.22	0.063	ug/L		04/30/13 16:50	05/01/13 21:49	1
Benzo[b]fluoranthene	0.22	U F J	0.22	0.055	ug/L		04/30/13 16:50	05/01/13 21:49	1
Benzo[g,h,i]perylene	0.55	U F R	0.55	0.11	ug/L		04/30/13 16:50	05/01/13 21:49	1
Benzo[k]fluoranthene	0.22	U F J	0.22	0.063	ug/L		04/30/13 16:50	05/01/13 21:49	1
Chrysene	0.22	U F J	0.22	0.076	ug/L		04/30/13 16:50	05/01/13 21:49	1
Dibenz(a,h)anthracene	0.22	U F R	0.22	0.055	ug/L		04/30/13 16:50	05/01/13 21:49	1
Fluoranthene	0.55	U F J	0.55	0.059	ug/L		04/30/13 16:50	05/01/13 21:49	1
Fluorene	2.2	U F J	2.2	0.55	ug/L		04/30/13 16:50	05/01/13 21:49	1
Indeno[1,2,3-cd]pyrene	0.22	U F J	0.22	0.055	ug/L		04/30/13 16:50	05/01/13 21:49	1
1-Methylnaphthalene	2.2	U	2.2	0.55	ug/L		04/30/13 16:50	05/01/13 21:49	1
2-Methylnaphthalene	2.2	U F J	2.2	0.55	ug/L		04/30/13 16:50	05/01/13 21:49	1
Naphthalene	2.2	U F J	2.2	0.27	ug/L		04/30/13 16:50	05/01/13 21:49	1
Phenanthrene	0.55	U F J	0.55	0.22	ug/L		04/30/13 16:50	05/01/13 21:49	1
Pyrene	0.55	U F J	0.55	0.098	ug/L		04/30/13 16:50	05/01/13 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	52		30 - 130				04/30/13 16:50	05/01/13 21:49	1

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 (OTTE, October 2012)

TestAmerica Savannah

ANALYTICAL REPORT

Job Number: 680-89695-2

SDG Number: 68089695-2

Job Description: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, GA 30060

Attention: Ms. Limari F Krebs



Approved for release.
Bernard Kirkland
Project Manager I
5/7/2013 10:41 AM

Designee for

Lisa Harvey

Project Manager II

lisa.harvey@testamericainc.com

05/07/2013

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: 680-89695-2

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

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

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

RECEIPT

The samples were received on 04/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1158A-CS (680-89695-21), CV1158B-CS (680-89695-22), CV1235A-CS (680-89695-23), CV1235B-CS (680-89695-24), CV1235C-CS (680-89695-25), CV1235D-CS (680-89695-26), CV1235D-CSD (680-89695-27), CV1324A-CS (680-89695-28), CV0686A-CS-SP (680-89695-29), CV0686B-CS-SP (680-89695-30) and CV0686C-GS-SP (680-89695-31) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/26/2013 and 04/29/2013 and analyzed on 04/29/2013 and 05/01/2013.

Samples CV1158A-CS (680-89695-21)[4X], CV1235A-CS (680-89695-23)[4X], CV1235C-CS (680-89695-25)[4X], CV1235D-CS (680-89695-26)[4X], CV1324A-CS (680-89695-28)[4X] and CV0686C-GS-SP (680-89695-31)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl recovered outside the surrogate recovery criteria for CV1235B-CS (680-89695-24).

Several analytes recovered outside the recovery criteria for the MSD of sample CV1158A-CS (680-89695-21) in batch 660-137001. Fluoranthene and Pyrene exceeded the rpd limit.

Several analytes recovered outside the recovery criteria low for the MS/MSD of sample 680-89695-4 in batch 660-136961.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)-Waters

Sample 042313-RB-Sieve (680-89695-35) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/30/2013 and analyzed on 05/01/2013.

Several analytes recovered outside the recovery criteria low for the MS of sample 042313-RB-SieveMS (680-89695-35) in batch 660-137001.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-2

Sdg Number: 68089695-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-89695-21	CV1158A-CS	Solid	04/23/2013 1445	04/25/2013 0840
680-89695-21MS	CV1158A-CS	Solid	04/23/2013 1445	04/25/2013 0840
680-89695-21MSD	CV1158A-CS	Solid	04/23/2013 1445	04/25/2013 0840
680-89695-22	CV1158B-CS	Solid	04/23/2013 1500	04/25/2013 0840
680-89695-23	CV1235A-CS	Solid	04/23/2013 1310	04/25/2013 0840
680-89695-24	CV1235B-CS	Solid	04/23/2013 1320	04/25/2013 0840
680-89695-25	CV1235C-CS	Solid	04/23/2013 1330	04/25/2013 0840
680-89695-26	CV1235D-CS	Solid	04/23/2013 1340	04/25/2013 0840
680-89695-27	CV1235D-CSD	Solid	04/23/2013 1340	04/25/2013 0840
680-89695-28	CV1324A-CS	Solid	04/23/2013 1420	04/25/2013 0840
680-89695-29	CV0686A-CS-SP	Solid	04/23/2013 1459	04/25/2013 0840
680-89695-30	CV0686B-CS-SP	Solid	04/23/2013 1503	04/25/2013 0840
680-89695-31	CV0686C-GS-SP	Solid	04/23/2013 1522	04/25/2013 0840
680-89695-35	042313-RB-Sieve	Water	04/23/2013 1000	04/25/2013 0840

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-2
Sdg Number: 68089695-2

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-2

Sdg Number: 68089695-2

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

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-2

Sdg Number: 68089695-2

Lab Section	Qualifier	Description
GC/MS Semi VOA	U	Indicates the analyte was analyzed for but not detected.
	F	MS or MSD exceeds the control limits
	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
	X	Surrogate is outside control limits

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-2

Sdg Number: 68089695-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS Semi VOA					
Prep Batch: 660-136855					
LCS 660-136855/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136855/1-A	Method Blank	T	Solid	3546	
680-89695-A-4-B MS	Matrix Spike	T	Solid	3546	
680-89695-A-4-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89695-22	CV1158B-CS	T	Solid	3546	
680-89695-23	CV1235A-CS	T	Solid	3546	
680-89695-24	CV1235B-CS	T	Solid	3546	
680-89695-25	CV1235C-CS	T	Solid	3546	
680-89695-26	CV1235D-CS	T	Solid	3546	
Prep Batch: 660-136938					
LCS 660-136938/2-A	Lab Control Sample	T	Solid	3546	
MB 660-136938/1-A	Method Blank	T	Solid	3546	
680-89695-21	CV1158A-CS	T	Solid	3546	
680-89695-21MS	Matrix Spike	T	Solid	3546	
680-89695-21MSD	Matrix Spike Duplicate	T	Solid	3546	
680-89695-27	CV1235D-CSD	T	Solid	3546	
680-89695-28	CV1324A-CS	T	Solid	3546	
680-89695-29	CV0686A-CS-SP	T	Solid	3546	
680-89695-30	CV0686B-CS-SP	T	Solid	3546	
680-89695-31	CV0686C-GS-SP	T	Solid	3546	
Analysis Batch:660-136961					
LCS 660-136855/2-A	Lab Control Sample	T	Solid	8270C LL	660-136855
MB 660-136855/1-A	Method Blank	T	Solid	8270C LL	660-136855
680-89695-A-4-B MS	Matrix Spike	T	Solid	8270C LL	660-136855
680-89695-A-4-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136855
680-89695-22	CV1158B-CS	T	Solid	8270C LL	660-136855
680-89695-23	CV1235A-CS	T	Solid	8270C LL	660-136855
680-89695-24	CV1235B-CS	T	Solid	8270C LL	660-136855
680-89695-25	CV1235C-CS	T	Solid	8270C LL	660-136855
680-89695-26	CV1235D-CS	T	Solid	8270C LL	660-136855
Prep Batch: 660-136981					
LCS 660-136981/2-A	Lab Control Sample	T	Water	3520C	
LCSD 660-136981/3-A	Lab Control Sample Duplicate	T	Water	3520C	
MB 660-136981/1-A	Method Blank	T	Water	3520C	
680-89695-35	042313-RB-Sieve	T	Water	3520C	
680-89695-35MS	Matrix Spike	T	Water	3520C	

Quality Control Results

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-2

Sdg Number: 68089695-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-137001					
LCS 660-136938/2-A	Lab Control Sample	T	Solid	8270C LL	660-136938
MB 660-136938/1-A	Method Blank	T	Solid	8270C LL	660-136938
LCS 660-136981/2-A	Lab Control Sample	T	Water	8270C LL	660-136981
LCSD 660-136981/3-A	Lab Control Sample Duplicate	T	Water	8270C LL	660-136981
MB 660-136981/1-A	Method Blank	T	Water	8270C LL	660-136981
680-89695-21	CV1158A-CS	T	Solid	8270C LL	660-136938
680-89695-21MS	Matrix Spike	T	Solid	8270C LL	660-136938
680-89695-21MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-136938
680-89695-27	CV1235D-CSD	T	Solid	8270C LL	660-136938
680-89695-28	CV1324A-CS	T	Solid	8270C LL	660-136938
680-89695-29	CV0686A-CS-SP	T	Solid	8270C LL	660-136938
680-89695-30	CV0686B-CS-SP	T	Solid	8270C LL	660-136938
680-89695-31	CV0686C-GS-SP	T	Solid	8270C LL	660-136938
680-89695-35	042313-RB-Sieve	T	Water	8270C LL	660-136981
680-89695-35MS	Matrix Spike	T	Water	8270C LL	660-136981

Report Basis

T = Total

General Chemistry

Analysis Batch:660-136902					
680-89695-A-4 MS	Matrix Spike	T	Solid	Moisture	
680-89695-A-4 MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89695-21	CV1158A-CS	T	Solid	Moisture	
680-89695-21MS	Matrix Spike	T	Solid	Moisture	
680-89695-21MSD	Matrix Spike Duplicate	T	Solid	Moisture	
680-89695-22	CV1158B-CS	T	Solid	Moisture	
680-89695-23	CV1235A-CS	T	Solid	Moisture	
680-89695-24	CV1235B-CS	T	Solid	Moisture	
680-89695-25	CV1235C-CS	T	Solid	Moisture	
680-89695-26	CV1235D-CS	T	Solid	Moisture	
680-89695-27	CV1235D-CSD	T	Solid	Moisture	
680-89695-28	CV1324A-CS	T	Solid	Moisture	
680-89695-29	CV0686A-CS-SP	T	Solid	Moisture	
680-89695-30	CV0686B-CS-SP	T	Solid	Moisture	
680-89695-31	CV0686C-GS-SP	T	Solid	Moisture	

Report Basis

T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-2SDG No.: 68089695-2Instrument ID: BSMA5973 Analysis Batch Number: 136892Lab Sample ID: IC 660-136892/3 Client Sample ID: _____Date Analyzed: 04/26/13 10:03 Lab File ID: 1AD26003.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	04/26/
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	04/26/
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	04/26/

Lab Sample ID: IC 660-136892/4 Client Sample ID: _____Date Analyzed: 04/26/13 10:18 Lab File ID: 1AD26004.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	04/26/
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	04/26/
Dibenz(a,h)anthracene	8.44	Baseline Event	cantins	04/26/
Benzo[g,h,i]perylene	8.62	Baseline Event	cantins	04/26/

Lab Sample ID: IC 660-136892/5 Client Sample ID: _____Date Analyzed: 04/26/13 10:33 Lab File ID: 1AD26005.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	8.45	Baseline Event	cantins	04/26/
Benzo[g,h,i]perylene	8.63	Baseline Event	cantins	04/26/

Lab Sample ID: IC 660-136892/6 Client Sample ID: _____Date Analyzed: 04/26/13 10:48 Lab File ID: 1AD26006.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	8.45	Baseline Event	cantins	04/26/
Benzo[g,h,i]perylene	8.64	Baseline Event	cantins	04/26/

Lab Sample ID: ICIS 660-136892/7 Client Sample ID: _____Date Analyzed: 04/26/13 11:03 Lab File ID: 1AD26007.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Chrysene	6.60	Baseline Event	cantins	04/26/

Lab Sample ID: IC 660-136892/8 Client Sample ID: _____Date Analyzed: 04/26/13 11:19 Lab File ID: 1AD26008.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Chrysene	6.60	Baseline Event	cantins	04/26/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

|

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-2SDG No.: 68089695-2Instrument ID: BSMA5973 Analysis Batch Number: 136892Lab Sample ID: IC 660-136892/9 Client Sample ID: _____Date Analyzed: 04/26/13 11:34 Lab File ID: 1AD26009.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Chrysene	6.61	Baseline Event	cantins	04/26/
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	04/26/

Lab Sample ID: ICV 660-136892/10 Client Sample ID: _____Date Analyzed: 04/26/13 11:49 Lab File ID: 1AD26010.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Carbazole	4.73	Baseline Event	cantins	04/26/

DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

|

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-2SDG No.: 68089695-2Instrument ID: BSMA5973 Analysis Batch Number: 136961Lab Sample ID: 680-89695-A-4-B MS Client Sample ID: _____Date Analyzed: 04/29/13 13:54 Lab File ID: 1AD29008.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Dibenz(a,h)anthracene	8.45	Baseline Event	cantins	05/01/

Lab Sample ID: 680-89695-A-4-C MSD Client Sample ID: _____Date Analyzed: 04/29/13 14:09 Lab File ID: 1AD29009.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/01/
Dibenz(a,h)anthracene	8.46	Baseline Event	cantins	05/01/

Lab Sample ID: 680-89695-22 Client Sample ID: CV1158B-CSDate Analyzed: 04/29/13 17:55 Lab File ID: 1AD29024.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.41	Split Peak	cantins	05/02/
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/02/
Indeno[1,2,3-cd]pyrene	8.47	Split Peak	cantins	05/02/

Lab Sample ID: 680-89695-23 Client Sample ID: CV1235A-CSDate Analyzed: 04/29/13 18:10 Lab File ID: 1AD29025.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Acenaphthylene	3.52	Analyte not Identified by the Data System	cantins	05/02/
Benzo[b]fluoranthene	7.40	Split Peak	cantins	05/02/
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/02/
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/02/

Lab Sample ID: 680-89695-24 Client Sample ID: CV1235B-CSDate Analyzed: 04/29/13 18:25 Lab File ID: 1AD29026.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.41	Split Peak	cantins	05/02/
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/02/
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/02/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-2SDG No.: 68089695-2Instrument ID: BSMA5973 Analysis Batch Number: 136961Lab Sample ID: 680-89695-25 Client Sample ID: CV1235C-CSDate Analyzed: 04/29/13 18:40 Lab File ID: 1AD29027.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Acenaphthylene	3.52	Analyte not Identified by the Data System	cantins	05/02/
Benzo[b]fluoranthene	7.41	Split Peak	cantins	05/02/
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/02/
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/02/

Lab Sample ID: 680-89695-26 Client Sample ID: CV1235D-CSDate Analyzed: 04/29/13 18:55 Lab File ID: 1AD29028.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.40	Split Peak	cantins	05/02/
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/02/
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/02/

DB-5MS _____ ID: 250 (um)

1

DB-5MS _____ ID: 250 (um)

1

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-2SDG No.: 68089695-2Instrument ID: BSMA5973 Analysis Batch Number: 137001Lab Sample ID: LCS 660-136938/2-A Client Sample ID: _____Date Analyzed: 05/01/13 15:02 Lab File ID: 1AE01009.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	05/01/

Lab Sample ID: 680-89695-21 Client Sample ID: CV1158A-CSDate Analyzed: 05/01/13 15:32 Lab File ID: 1AE01011.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.38	Split Peak	cantins	05/01/
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/01/
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/01/
Benzo[g,h,i]perylene	8.65	Baseline Event	cantins	05/01/

Lab Sample ID: 680-89695-21 MS Client Sample ID: CV1158A-CS MSDate Analyzed: 05/01/13 15:47 Lab File ID: 1AE01012.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	05/01/

Lab Sample ID: 680-89695-21 MSD Client Sample ID: CV1158A-CS MSDDate Analyzed: 05/01/13 16:02 Lab File ID: 1AE01013.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	8.44	Split Peak	cantins	05/01/

Lab Sample ID: 680-89695-27 Client Sample ID: CV1235D-CSDDate Analyzed: 05/01/13 16:33 Lab File ID: 1AE01015.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.40	Split Peak	cantins	05/05/
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/05/
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/05/

Lab Sample ID: 680-89695-28 Client Sample ID: CV1324A-CSDate Analyzed: 05/01/13 16:48 Lab File ID: 1AE01016.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/05/
Benzo[k]fluoranthene	7.40	Baseline Event	cantins	05/05/
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/05/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

|

DB-5MS _____ ID: 250 (um)

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GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-2SDG No.: 68089695-2Instrument ID: BSMA5973 Analysis Batch Number: 137001Lab Sample ID: 680-89695-29 Client Sample ID: CV0686A-CS-SPDate Analyzed: 05/01/13 17:03 Lab File ID: 1AE01017.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.40	Split Peak	cantins	05/05/
Benzo[k]fluoranthene	7.42	Baseline Event	cantins	05/05/
Indeno[1,2,3-cd]pyrene	8.46	Split Peak	cantins	05/05/

Lab Sample ID: 680-89695-30 Client Sample ID: CV0686B-CS-SPDate Analyzed: 05/01/13 17:18 Lab File ID: 1AE01018.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.40	Split Peak	cantins	05/05/
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/05/

Lab Sample ID: 680-89695-31 Client Sample ID: CV0686C-GS-SPDate Analyzed: 05/01/13 17:33 Lab File ID: 1AE01019.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Benzo[b]fluoranthene	7.39	Split Peak	cantins	05/05/
Benzo[k]fluoranthene	7.41	Baseline Event	cantins	05/05/
Indeno[1,2,3-cd]pyrene	8.45	Split Peak	cantins	05/05/

Lab Sample ID: LCS 660-136981/2-A Client Sample ID: _____Date Analyzed: 05/01/13 21:18 Lab File ID: 1AE01034.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	8.47	Split Peak	cantins	05/05/

Lab Sample ID: LCSD 660-136981/3-A Client Sample ID: _____Date Analyzed: 05/01/13 21:33 Lab File ID: 1AE01035.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	8.47	Split Peak	cantins	05/05/

Lab Sample ID: 680-89695-35 MS Client Sample ID: 042313-RB-Sieve MSDate Analyzed: 05/01/13 22:04 Lab File ID: 1AE01037.D GC Column: _____

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	D
Indeno[1,2,3-cd]pyrene	8.46	Split Peak	cantins	05/05/

DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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DB-5MS _____ ID: 250 (um)

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Method 8270C Low Level

Semivolatile Organic Compounds
(GC/MS) Low Level by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa

Job No.: 680-89695-2

SDG No.: 68089695-2

Matrix: Solid

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV1158A-CS	680-89695-21	55
CV1158B-CS	680-89695-22	46
CV1235A-CS	680-89695-23	53
CV1235B-CS	680-89695-24	21 X
CV1235C-CS	680-89695-25	53
CV1235D-CS	680-89695-26	57
CV1235D-CSD	680-89695-27	51
CV1324A-CS	680-89695-28	40
CV0686A-CS-SP	680-89695-29	44
CV0686B-CS-SP	680-89695-30	51
CV0686C-GS-SP	680-89695-31	53
	MB 660-136855/1-A	63
	MB 660-136938/1-A	84
	LCS 660-136855/2-A	65
	LCS 660-136938/2-A	71
	680-89695-A-4-B MS	44
CV1158A-CS MS	680-89695-21 MS	64
	680-89695-A-4-C MSD	46
CV1158A-CS MSD	680-89695-21 MSD	62

OTPH = o-Terphenyl

QC LIMITS
30-130

Column to be used to flag recovery values

FORM II 8270C LL

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa

Job No.: 680-89695-2

SDG No.: 68089695-2

Matrix: Water

Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
042313-RB-Sieve	680-89695-35	52
	MB 660-136981/1-A	72
	LCS 660-136981/2-A	82
	LCSD 660-136981/3-A	80
042313-RB-Sieve MS	680-89695-35 MS	41

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.: 680-89695-2
 SDG No.: 68089695-2
 Matrix: Solid Level: Low Lab File ID: 1AD29006.D
 Lab ID: LCS 660-136855/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	656	395	60	39-130	
Acenaphthylene	656	392	60	38-130	
Anthracene	656	399	61	37-130	
Benzo[a]anthracene	656	400	61	40-130	
Benzo[a]pyrene	656	390	59	49-130	
Benzo[b]fluoranthene	656	430	66	37-130	
Benzo[g,h,i]perylene	656	396	60	32-130	
Benzo[k]fluoranthene	656	392	60	32-130	
Chrysene	656	376	57	41-130	
Dibenz(a,h)anthracene	656	462	70	27-130	
Fluoranthene	656	442	67	40-130	
Fluorene	656	420	64	40-130	
Indeno[1,2,3-cd]pyrene	656	423	64	30-130	
1-Methylnaphthalene	656	453	69	31-130	
2-Methylnaphthalene	656	430	66	33-130	
Naphthalene	656	410	63	36-130	
Phenanthrene	656	386	59	42-130	
Pyrene	656	413	63	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.: 680-89695-2
 SDG No.: 68089695-2
 Matrix: Solid Level: Low Lab File ID: 1AE01009.D
 Lab ID: LCS 660-136938/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	667	453	68	39-130	
Acenaphthylene	667	466	70	38-130	
Anthracene	667	487	73	37-130	
Benzo[a]anthracene	667	509	76	40-130	
Benzo[a]pyrene	667	496	74	49-130	
Benzo[b]fluoranthene	667	523	78	37-130	
Benzo[g,h,i]perylene	667	525	79	32-130	
Benzo[k]fluoranthene	667	516	77	32-130	
Chrysene	667	484	73	41-130	
Dibenz(a,h)anthracene	667	593	89	27-130	
Fluoranthene	667	524	79	40-130	
Fluorene	667	485	73	40-130	
Indeno[1,2,3-cd]pyrene	667	560	84	30-130	
1-Methylnaphthalene	667	530	79	31-130	
2-Methylnaphthalene	667	505	76	33-130	
Naphthalene	667	497	75	36-130	
Phenanthrene	667	471	71	42-130	
Pyrene	667	484	73	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.: 680-89695-2

SDG No.: 68089695-2

Matrix: Water Level: Low Lab File ID: 1AE01034.D

Lab ID: LCS 660-136981/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acenaphthene	10.0	7.97	80	55-132	
Acenaphthylene	10.0	7.94	79	39-130	
Anthracene	10.0	8.66	87	39-130	
Benzo[a]anthracene	10.0	8.92	89	54-135	
Benzo[a]pyrene	10.0	5.70	57	21-130	
Benzo[b]fluoranthene	10.0	7.35	74	37-130	
Benzo[g,h,i]perylene	10.0	2.90	29	26-130	
Benzo[k]fluoranthene	10.0	5.87	59	38-130	
Chrysene	10.0	7.95	80	56-130	
Dibenz(a,h)anthracene	10.0	3.55	36	13-130	
Fluoranthene	10.0	9.14	91	60-130	
Fluorene	10.0	8.37	84	55-140	
Indeno[1,2,3-cd]pyrene	10.0	3.35	34	21-130	
1-Methylnaphthalene	10.0	9.24	92	49-130	
2-Methylnaphthalene	10.0	9.13	91	48-130	
Naphthalene	10.0	9.09	91	54-133	
Phenanthrene	10.0	8.89	89	60-136	
Pyrene	10.0	7.53	75	60-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Matrix: Water Level: Low Lab File ID: 1AE01035.D
 Lab ID: LCSD 660-136981/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	10.0	7.58	76	5	35	55-132	
Acenaphthylene	10.0	7.72	77	3	35	39-130	
Anthracene	10.0	8.59	86	1	35	39-130	
Benzo[a]anthracene	10.0	8.47	85	5	35	54-135	
Benzo[a]pyrene	10.0	5.15	51	10	35	21-130	
Benzo[b]fluoranthene	10.0	5.67	57	26	35	37-130	
Benzo[g,h,i]perylene	10.0	2.70	27	7	35	26-130	
Benzo[k]fluoranthene	10.0	6.07	61	3	35	38-130	
Chrysene	10.0	7.26	73	9	35	56-130	
Dibenz(a,h)anthracene	10.0	3.12	31	13	35	13-130	
Fluoranthene	10.0	9.50	95	4	35	60-130	
Fluorene	10.0	8.29	83	1	35	55-140	
Indeno[1,2,3-cd]pyrene	10.0	2.97	30	12	35	21-130	
1-Methylnaphthalene	10.0	8.89	89	4	35	49-130	
2-Methylnaphthalene	10.0	8.76	88	4	35	48-130	
Naphthalene	10.0	8.81	88	3	35	54-133	
Phenanthrene	10.0	8.45	85	5	35	60-136	
Pyrene	10.0	7.81	78	4	35	60-138	

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.: 680-89695-2
 SDG No.: 68089695-2
 Matrix: Solid Level: Low Lab File ID: 1AD29008.D
 Lab ID: 680-89695-A-4-B MS Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	798	120 U	342	43	39-130	
Acenaphthylene	798	19 J	347	41	38-130	
Anthracene	798	32	374	43	37-130	
Benzo[a]anthracene	798	160	437	35	40-130	F
Benzo[a]pyrene	798	140	412	34	49-130	F
Benzo[b]fluoranthene	798	230	554	40	37-130	
Benzo[g,h,i]perylene	798	140	483	43	32-130	
Benzo[k]fluoranthene	798	87	341	32	32-130	
Chrysene	798	170	508	42	41-130	
Dibenz(a,h)anthracene	798	44	483	55	27-130	
Fluoranthene	798	250	537	36	40-130	F
Fluorene	798	9.0 J	352	43	40-130	
Indeno[1,2,3-cd]pyrene	798	130	505	47	30-130	
1-Methylnaphthalene	798	86	453	46	31-130	
2-Methylnaphthalene	798	110	456	43	33-130	
Naphthalene	798	110	455	44	36-130	
Phenanthrene	798	160	498	43	42-130	
Pyrene	798	220	522	38	44-130	F

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.: 680-89695-2
 SDG No.: 68089695-2
 Matrix: Solid Level: Low Lab File ID: 1AE01012.D
 Lab ID: 680-89695-21 MS Client ID: CV1158A-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	814	490 U	550	68	39-130	
Acenaphthylene	814	190 U	556	68	38-130	
Anthracene	814	56	646	72	37-130	
Benzo[a]anthracene	814	240	945	87	40-130	
Benzo[a]pyrene	814	210	799	72	49-130	
Benzo[b]fluoranthene	814	310	930	76	37-130	
Benzo[g,h,i]perylene	814	200	889	85	32-130	
Benzo[k]fluoranthene	814	140	709	70	32-130	
Chrysene	814	270	842	70	41-130	
Dibenz(a,h)anthracene	814	43 J	810	94	27-130	
Fluoranthene	814	410	1110	86	40-130	
Fluorene	814	23 J	599	71	40-130	
Indeno[1,2,3-cd]pyrene	814	190	949	94	30-130	
1-Methylnaphthalene	814	56 J	665	75	31-130	
2-Methylnaphthalene	814	69 J	671	74	33-130	
Naphthalene	814	58 J	677	76	36-130	
Phenanthrene	814	270	916	80	42-130	
Pyrene	814	380	1020	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.: 680-89695-2
 SDG No.: 68089695-2
 Matrix: Water Level: Low Lab File ID: 1AE01037.D
 Lab ID: 680-89695-35 MS Client ID: 042313-RB-Sieve MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acenaphthene	10.1	2.2 U	4.16	41	55-132	F
Acenaphthylene	10.1	1.1 U	4.19	41	39-130	
Anthracene	10.1	0.22 U	4.55	45	39-130	
Benzo[a]anthracene	10.1	0.22 U	3.83	38	54-135	F
Benzo[a]pyrene	10.1	0.22 U	2.14	21	21-130	
Benzo[b]fluoranthene	10.1	0.22 U	2.86	28	37-130	F
Benzo[g,h,i]perylene	10.1	0.55 U	0.732	7	26-130	F
Benzo[k]fluoranthene	10.1	0.22 U	2.27	22	38-130	F
Chrysene	10.1	0.22 U	2.95	29	56-130	F
Dibenz(a,h)anthracene	10.1	0.22 U	0.925	9	13-130	F
Fluoranthene	10.1	0.55 U	5.14	51	60-130	F
Fluorene	10.1	2.2 U	4.36	43	55-140	F
Indeno[1,2,3-cd]pyrene	10.1	0.22 U	1.20	12	21-130	F
1-Methylnaphthalene	10.1	2.2 U	4.92	49	49-130	
2-Methylnaphthalene	10.1	2.2 U	4.74	47	48-130	F
Naphthalene	10.1	2.2 U	5.16	51	54-133	F
Phenanthrene	10.1	0.55 U	4.44	44	60-136	F
Pyrene	10.1	0.55 U	3.96	39	60-138	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.: 680-89695-2
 SDG No.: 68089695-2
 Matrix: Solid Level: Low Lab File ID: 1AD29009.D
 Lab ID: 680-89695-A-4-C MSD Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	798	360	45	5	40	39-130	
Acenaphthylene	798	366	43	5	40	38-130	
Anthracene	798	414	48	10	40	37-130	
Benzo[a]anthracene	798	496	42	12	40	40-130	
Benzo[a]pyrene	798	459	40	11	40	49-130	F
Benzo[b]fluoranthene	798	619	48	11	40	37-130	
Benzo[g,h,i]perylene	798	500	45	3	40	32-130	
Benzo[k]fluoranthene	798	373	36	9	40	32-130	
Chrysene	798	531	45	4	40	41-130	
Dibenz(a,h)anthracene	798	497	57	3	40	27-130	
Fluoranthene	798	599	44	11	40	40-130	
Fluorene	798	363	44	3	40	40-130	
Indeno[1,2,3-cd]pyrene	798	537	51	6	40	30-130	
1-Methylnaphthalene	798	474	49	5	40	31-130	
2-Methylnaphthalene	798	504	49	10	40	33-130	
Naphthalene	798	528	53	15	40	36-130	
Phenanthrene	798	570	52	14	40	42-130	
Pyrene	798	555	42	6	40	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.: 680-89695-2
 SDG No.: 68089695-2
 Matrix: Solid Level: Low Lab File ID: 1AE01013.D
 Lab ID: 680-89695-21 MSD Client ID: CV1158A-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Acenaphthene	803	423 J	53	26	40	39-130	
Acenaphthylene	803	419	52	28	40	38-130	
Anthracene	803	472	52	31	40	37-130	
Benzo[a]anthracene	803	673	54	34	40	40-130	
Benzo[a]pyrene	803	591	47	30	40	49-130	F
Benzo[b]fluoranthene	803	672	44	32	40	37-130	
Benzo[g,h,i]perylene	803	649	56	31	40	32-130	
Benzo[k]fluoranthene	803	518	47	31	40	32-130	
Chrysene	803	574	38	38	40	41-130	F
Dibenz(a,h)anthracene	803	635	74	24	40	27-130	
Fluoranthene	803	723	39	42	40	40-130	F
Fluorene	803	431	51	33	40	40-130	
Indeno[1,2,3-cd]pyrene	803	650	58	37	40	30-130	
1-Methylnaphthalene	803	502	55	28	40	31-130	
2-Methylnaphthalene	803	503	54	29	40	33-130	
Naphthalene	803	476	52	35	40	36-130	
Phenanthrene	803	616	43	39	40	42-130	
Pyrene	803	651	34	44	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.: 680-89695-2
 SDG No.: 68089695-2
 Lab File ID: 1AD29005.D Lab Sample ID: MB 660-136855/1-A
 Matrix: Solid Date Extracted: 04/26/2013 07:28
 Instrument ID: BSMA5973 Date Analyzed: 04/29/2013 13:08
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136855/2-A	1AD29006.D	04/29/2013 13:24
	680-89695-A-4-B MS	1AD29008.D	04/29/2013 13:54
	680-89695-A-4-C MSD	1AD29009.D	04/29/2013 14:09
CV1158B-CS	680-89695-22	1AD29024.D	04/29/2013 17:55
CV1235A-CS	680-89695-23	1AD29025.D	04/29/2013 18:10
CV1235B-CS	680-89695-24	1AD29026.D	04/29/2013 18:25
CV1235C-CS	680-89695-25	1AD29027.D	04/29/2013 18:40
CV1235D-CS	680-89695-26	1AD29028.D	04/29/2013 18:55

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Lab File ID: 1AE01008.D Lab Sample ID: MB 660-136938/1-A
 Matrix: Solid Date Extracted: 04/29/2013 14:27
 Instrument ID: BSMA5973 Date Analyzed: 05/01/2013 14:46
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136938/2-A	1AE01009.D	05/01/2013 15:02
CV1158A-CS	680-89695-21	1AE01011.D	05/01/2013 15:32
CV1158A-CS MS	680-89695-21 MS	1AE01012.D	05/01/2013 15:47
CV1158A-CS MSD	680-89695-21 MSD	1AE01013.D	05/01/2013 16:02
CV1235D-CSD	680-89695-27	1AE01015.D	05/01/2013 16:33
CV1324A-CS	680-89695-28	1AE01016.D	05/01/2013 16:48
CV0686A-CS-SP	680-89695-29	1AE01017.D	05/01/2013 17:03
CV0686B-CS-SP	680-89695-30	1AE01018.D	05/01/2013 17:18
CV0686C-GS-SP	680-89695-31	1AE01019.D	05/01/2013 17:33

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
SDG No.: 68089695-2
Lab File ID: 1AE01033.D Lab Sample ID: MB 660-136981/1-A
Matrix: Water Date Extracted: 04/30/2013 16:50
Instrument ID: BSMA5973 Date Analyzed: 05/01/2013 21:03
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-136981/2-A	1AE01034.D	05/01/2013 21:18
	LCSD 660-136981/3-A	1AE01035.D	05/01/2013 21:33
042313-RB-Sieve	680-89695-35	1AE01036.D	05/01/2013 21:49
042313-RB-Sieve MS	680-89695-35 MS	1AE01037.D	05/01/2013 22:04

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Lab File ID: 1AD26002.D DFTPP Injection Date: 04/26/2013
 Instrument ID: BSMA5973 DFTPP Injection Time: 09:50
 Analysis Batch No.: 136892

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	31.9
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	29.9
70	Less than 2.0 % of mass 69	0.3 (0.9)1
127	10.0 - 80.0 % of mass 198	38.3
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	5.5
275	10.0 - 60.0 % of mass 198	25.5
365	Greater than 1.0 % of mass 198	3.3
441	Present but less than mass 443	11.6
442	Greater than 50.0 % of mass 198	84.2
443	15.0 - 24.0 % of mass 442	15.5 (18.4)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-136892/3	1AD26003.D	04/26/2013	10:03
	IC 660-136892/4	1AD26004.D	04/26/2013	10:18
	IC 660-136892/5	1AD26005.D	04/26/2013	10:33
	IC 660-136892/6	1AD26006.D	04/26/2013	10:48
	ICIS 660-136892/7	1AD26007.D	04/26/2013	11:03
	IC 660-136892/8	1AD26008.D	04/26/2013	11:19
	IC 660-136892/9	1AD26009.D	04/26/2013	11:34
	ICV 660-136892/10	1AD26010.D	04/26/2013	11:49

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Lab File ID: 1AD29002.D DFTPP Injection Date: 04/29/2013
 Instrument ID: BSMA5973 DFTPP Injection Time: 12:12
 Analysis Batch No.: 136961

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	40.9
68	Less than 2.0 % of mass 69	0.6 (1.7)1
69	Mass 69 relative abundance	36.8
70	Less than 2.0 % of mass 69	0.5 (1.3)1
127	10.0 - 80.0 % of mass 198	46.0
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.9
275	10.0 - 60.0 % of mass 198	23.1
365	Greater than 1.0 % of mass 198	2.7
441	Present but less than mass 443	9.0
442	Greater than 50.0 % of mass 198	57.6
443	15.0 - 24.0 % of mass 442	11.1 (19.2)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 660-136961/3	1AD29003.D	04/29/2013	12:29
	MB 660-136855/1-A	1AD29005.D	04/29/2013	13:08
	LCS 660-136855/2-A	1AD29006.D	04/29/2013	13:24
	680-89695-A-4-B MS	1AD29008.D	04/29/2013	13:54
	680-89695-A-4-C MSD	1AD29009.D	04/29/2013	14:09
CV1158B-CS	680-89695-22	1AD29024.D	04/29/2013	17:55
CV1235A-CS	680-89695-23	1AD29025.D	04/29/2013	18:10
CV1235B-CS	680-89695-24	1AD29026.D	04/29/2013	18:25
CV1235C-CS	680-89695-25	1AD29027.D	04/29/2013	18:40
CV1235D-CS	680-89695-26	1AD29028.D	04/29/2013	18:55

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Lab File ID: 1AE01005.D DFTPP Injection Date: 05/01/2013
 Instrument ID: BSMA5973 DFTPP Injection Time: 14:01
 Analysis Batch No.: 137001

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	31.9
68	Less than 2.0 % of mass 69	0.5 (1.7)1
69	Mass 69 relative abundance	31.0
70	Less than 2.0 % of mass 69	0.3 (0.9)1
127	10.0 - 80.0 % of mass 198	40.6
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	6.7
275	10.0 - 60.0 % of mass 198	25.8
365	Greater than 1.0 % of mass 198	2.6
441	Present but less than mass 443	11.9
442	Greater than 50.0 % of mass 198	92.8
443	15.0 - 24.0 % of mass 442	17.9 (19.3)2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-137001/7	1AE01006.D	05/01/2013	14:15
	MB 660-136938/1-A	1AE01008.D	05/01/2013	14:46
	LCS 660-136938/2-A	1AE01009.D	05/01/2013	15:02
CV1158A-CS	680-89695-21	1AE01011.D	05/01/2013	15:32
CV1158A-CS MS	680-89695-21 MS	1AE01012.D	05/01/2013	15:47
CV1158A-CS MSD	680-89695-21 MSD	1AE01013.D	05/01/2013	16:02
CV1235D-CSD	680-89695-27	1AE01015.D	05/01/2013	16:33
CV1324A-CS	680-89695-28	1AE01016.D	05/01/2013	16:48
CV0686A-CS-SP	680-89695-29	1AE01017.D	05/01/2013	17:03
CV0686B-CS-SP	680-89695-30	1AE01018.D	05/01/2013	17:18
CV0686C-GS-SP	680-89695-31	1AE01019.D	05/01/2013	17:33
	MB 660-136981/1-A	1AE01033.D	05/01/2013	21:03
	LCS 660-136981/2-A	1AE01034.D	05/01/2013	21:18
	LCSD 660-136981/3-A	1AE01035.D	05/01/2013	21:33
042313-RB-Sieve	680-89695-35	1AE01036.D	05/01/2013	21:49
042313-RB-Sieve MS	680-89695-35 MS	1AE01037.D	05/01/2013	22:04

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Sample No.: ICIS 660-136892/7 Date Analyzed: 04/26/2013 11:03
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AD26007.D Heated Purge: (Y/N) N
 Calibration ID: 2919

	NPT		ANT		PHN	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	2358748	2.58	1131055	3.61	1941405	4.56
UPPER LIMIT	4717496	3.08	2262110	4.11	3882810	5.06
LOWER LIMIT	1179374	2.08	565528	3.11	970703	4.06
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136892/10	2252499	2.58	1126401	3.61	2015970	4.56

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.: 680-89695-2
 SDG No.: 68089695-2
 Sample No.: ICIS 660-136892/7 Date Analyzed: 04/26/2013 11:03
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AD26007.D Heated Purge: (Y/N) N
 Calibration ID: 2919

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
INITIAL CALIBRATION MID-POINT	1806882	6.58	1862358	7.67		
UPPER LIMIT	3613764	7.08	3724716	8.17		
LOWER LIMIT	903441	6.08	931179	7.17		
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 660-136892/10	1842442	6.58	2029776	7.67		

CRY = Chrysene-d12
 PRY = Perylene-d12

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Sample No.: CCVIS 660-136961/3 Date Analyzed: 04/29/2013 12:29
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AD29003.D Heated Purge: (Y/N) N
 Calibration ID: 2919

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1768522	2.57	946168	3.60	1657570	4.55	
UPPER LIMIT	3537044	3.07	1892336	4.10	3315140	5.05	
LOWER LIMIT	884261	2.07	473084	3.10	828785	4.05	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136855/1-A		2490016	2.57	1293513	3.61	2244776	4.56
LCS 660-136855/2-A		2197337	2.58	1155712	3.61	2046244	4.56
680-89695-A-4-B MS		1871480	2.58	952358	3.61	1516673	4.56
680-89695-A-4-C MSD		2041703	2.58	1062859	3.61	1728645	4.56
680-89695-22	CV1158B-CS	1678534	2.58	839181	3.61	1352598	4.57
680-89695-23	CV1235A-CS	1638864	2.58	853864	3.61	1375407	4.57
680-89695-24	CV1235B-CS	1663992	2.58	830247	3.61	1331289	4.57
680-89695-25	CV1235C-CS	1667827	2.58	851733	3.61	1331522	4.57
680-89695-26	CV1235D-CS	1621628	2.58	814655	3.61	1319034	4.57

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.: 680-89695-2
 SDG No.: 68089695-2
 Sample No.: CCVIS 660-136961/3 Date Analyzed: 04/29/2013 12:29
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AD29003.D Heated Purge: (Y/N) N
 Calibration ID: 2919

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1550259	6.57	1599138	7.66		
UPPER LIMIT	3100518	7.07	3198276	8.16		
LOWER LIMIT	775130	6.07	799569	7.16		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136855/1-A		2148223	6.57	2133331	7.66	
LCS 660-136855/2-A		1891133	6.57	1900613	7.66	
680-89695-A-4-B MS		1307573	6.58	1668789	7.66	
680-89695-A-4-C MSD		1643288	6.59	2068854	7.68	
680-89695-22	CV1158B-CS	1535654	6.60	1780995	7.69	
680-89695-23	CV1235A-CS	1636621	6.59	1830545	7.69	
680-89695-24	CV1235B-CS	1580375	6.60	1808997	7.69	
680-89695-25	CV1235C-CS	1597782	6.59	1835540	7.69	
680-89695-26	CV1235D-CS	1574843	6.60	1808238	7.69	

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.: 680-89695-2
 SDG No.: 68089695-2
 Sample No.: CCVIS 660-137001/7 Date Analyzed: 05/01/2013 14:15
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AE01006.D Heated Purge: (Y/N) N
 Calibration ID: 2919

	NPT		ANT		PHN		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	1809348	2.56	901124	3.59	1564940	4.54	
UPPER LIMIT	3618696	3.06	1802248	4.09	3129880	5.04	
LOWER LIMIT	904674	2.06	450562	3.09	782470	4.04	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-136938/1-A		1636438	2.56	863141	3.59	1397479	4.54
LCS 660-136938/2-A		1571668	2.56	823778	3.59	1440816	4.54
680-89695-21	CV1158A-CS	1520388	2.57	791138	3.59	1276436	4.55
680-89695-21 MS	CV1158A-CS MS	1455383	2.56	751774	3.59	1217471	4.55
680-89695-21 MSD	CV1158A-CS MSD	1519033	2.56	797282	3.60	1302080	4.55
680-89695-27	CV1235D-CSD	1443703	2.56	742158	3.60	1190294	4.55
680-89695-28	CV1324A-CS	1445271	2.57	725186	3.59	1183341	4.55
680-89695-29	CV0686A-CS-SP	1387141	2.57	695926	3.60	1073184	4.55
680-89695-30	CV0686B-CS-SP	1519567	2.57	779231	3.60	1208045	4.55
680-89695-31	CV0686C-GS-SP	1377472	2.57	711049	3.60	1151743	4.55
MB 660-136981/1-A		1280985	2.57	708781	3.60	1129051	4.56
LCS 660-136981/2-A		1230319	2.58	698907	3.60	1184805	4.56
LCSD 660-136981/3-A		1313890	2.58	731807	3.60	1258137	4.56
680-89695-35	042313-RB-Sieve	1346417	2.58	709346	3.60	1195575	4.56
680-89695-35 MS	042313-RB-Sieve MS	1262914	2.57	684490	3.60	1157709	4.56

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.: 680-89695-2
 SDG No.: 68089695-2
 Sample No.: CCVIS 660-137001/7 Date Analyzed: 05/01/2013 14:15
 Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um)
 Lab File ID (Standard): 1AE01006.D Heated Purge: (Y/N) N
 Calibration ID: 2919

	CRY		PRY		AREA #	RT #
	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	1466966	6.57	1426011	7.66		
UPPER LIMIT	2933932	7.07	2852022	8.16		
LOWER LIMIT	733483	6.07	713006	7.16		
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 660-136938/1-A		1389979	6.57	1362725	7.65	
LCS 660-136938/2-A		1384316	6.57	1342428	7.66	
680-89695-21	CV1158A-CS	1028792	6.58	1313259	7.67	
680-89695-21 MS	CV1158A-CS MS	1045215	6.58	1361545	7.67	
680-89695-21 MSD	CV1158A-CS MSD	1160479	6.58	1432756	7.67	
680-89695-27	CV1235D-CSD	1091399	6.58	1433369	7.68	
680-89695-28	CV1324A-CS	1265761	6.58	1603880	7.67	
680-89695-29	CV0686A-CS-SP	1152528	6.59	1504904	7.69	
680-89695-30	CV0686B-CS-SP	1220229	6.58	1505870	7.68	
680-89695-31	CV0686C-GS-SP	1171481	6.58	1495750	7.68	
MB 660-136981/1-A		1309342	6.60	1436169	7.70	
LCS 660-136981/2-A		1296745	6.60	1437697	7.70	
LCSD 660-136981/3-A		1375484	6.60	1514181	7.70	
680-89695-35	042313-RB-Sieve	1394713	6.60	1513430	7.70	
680-89695-35 MS	042313-RB-Sieve MS	1340928	6.60	1498821	7.70	

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.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV1158A-CS Lab Sample ID: 680-89695-21
 Matrix: Solid Lab File ID: 1AE01011.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 14:45
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27
 Sample wt/vol: 14.99(g) Date Analyzed: 05/01/2013 15:32
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	97
208-96-8	Acenaphthylene	190	U	190	24
120-12-7	Anthracene	56		41	20
56-55-3	Benzo[a]anthracene	240		39	19
50-32-8	Benzo[a]pyrene	210	F	51	25
205-99-2	Benzo[b]fluoranthene	310		59	30
191-24-2	Benzo[g,h,i]perylene	200		97	21
207-08-9	Benzo[k]fluoranthene	140		39	18
218-01-9	Chrysene	270	F	44	22
53-70-3	Dibenz(a,h)anthracene	43	J	97	20
206-44-0	Fluoranthene	410	F	97	19
86-73-7	Fluorene	23	J	97	20
193-39-5	Indeno[1,2,3-cd]pyrene	190		97	35
90-12-0	1-Methylnaphthalene	56	J	190	21
91-57-6	2-Methylnaphthalene	69	J	190	35
91-20-3	Naphthalene	58	J	190	21
85-01-8	Phenanthrene	270		39	19
129-00-0	Pyrene	380	F	97	18

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01011.D
 Lab Smp Id: 680-89695-A-21-A Client Smp ID: CV1158A-CS
 Inj Date : 01-MAY-2013 15:32
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-21-a
 Misc Info : 680-89695-A-21-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 8
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	17.724	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.565	2.563	(1.000)	1520388	40.0000		
* 6 Acenaphthene-d10	164		3.591	3.594	(1.000)	791138	40.0000		
* 10 Phenanthrene-d10	188		4.547	4.544	(1.000)	1276436	40.0000		
\$ 14 o-Terphenyl	230		4.847	4.844	(1.066)	28646	1.37207	445.0033	
* 18 Chrysene-d12	240		6.577	6.574	(1.000)	1028792	40.0000		
* 23 Perylene-d12	264		7.667	7.659	(1.000)	1313259	40.0000		
2 Naphthalene	128		2.582	2.573	(1.006)	6749	0.17757	57.5926	
3 2-Methylnaphthalene	141		2.982	2.979	(1.162)	4626	0.21230	68.8548	
4 1-Methylnaphthalene	142		3.036	3.033	(1.183)	4204	0.17414	56.4786	
9 Fluorene	166		3.928	3.925	(1.094)	2113	0.07243	23.4911	
11 Phenanthrene	178		4.563	4.560	(1.004)	30676	0.82962	269.0716	
12 Anthracene	178		4.596	4.593	(1.011)	6693	0.17408	56.4607(Q)	
13 Carbazole	167		4.729	4.726	(1.040)	5365	0.14465	46.9143	
15 Fluoranthene	202		5.429	5.426	(1.194)	54232	1.26984	411.8455	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		-----	-----	-----	-----	-----	-----
16 Pyrene	202		5.594	5.592	(0.851)	45573	1.16112	376.5859
17 Benzo(a)anthracene	228		6.567	6.558	(0.998)	24651	0.73372	237.9668
19 Chrysene	228		6.588	6.590	(1.002)	28588	0.83872	272.0226
20 Benzo(b)fluoranthene	252		7.384	7.381	(0.963)	38678	0.97011	314.6350(M)
21 Benzo(k)fluoranthene	252		7.395	7.402	(0.964)	19819	0.43235	140.2239(M)
22 Benzo(a)pyrene	252		7.614	7.605	(0.993)	26090	0.65779	213.3408
24 Indeno(1,2,3-cd)pyrene	276		8.426	8.423	(1.099)	21667	0.57855	187.6425(M)
25 Dibenzo(a,h)anthracene	278		8.453	8.450	(1.102)	4610	0.13230	42.9081
26 Benzo(g,h,i)perylene	276		8.650	8.642	(1.128)	25267	0.60283	195.5158(M)

QC Flag Legend

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

Data File: 1AE01011.D

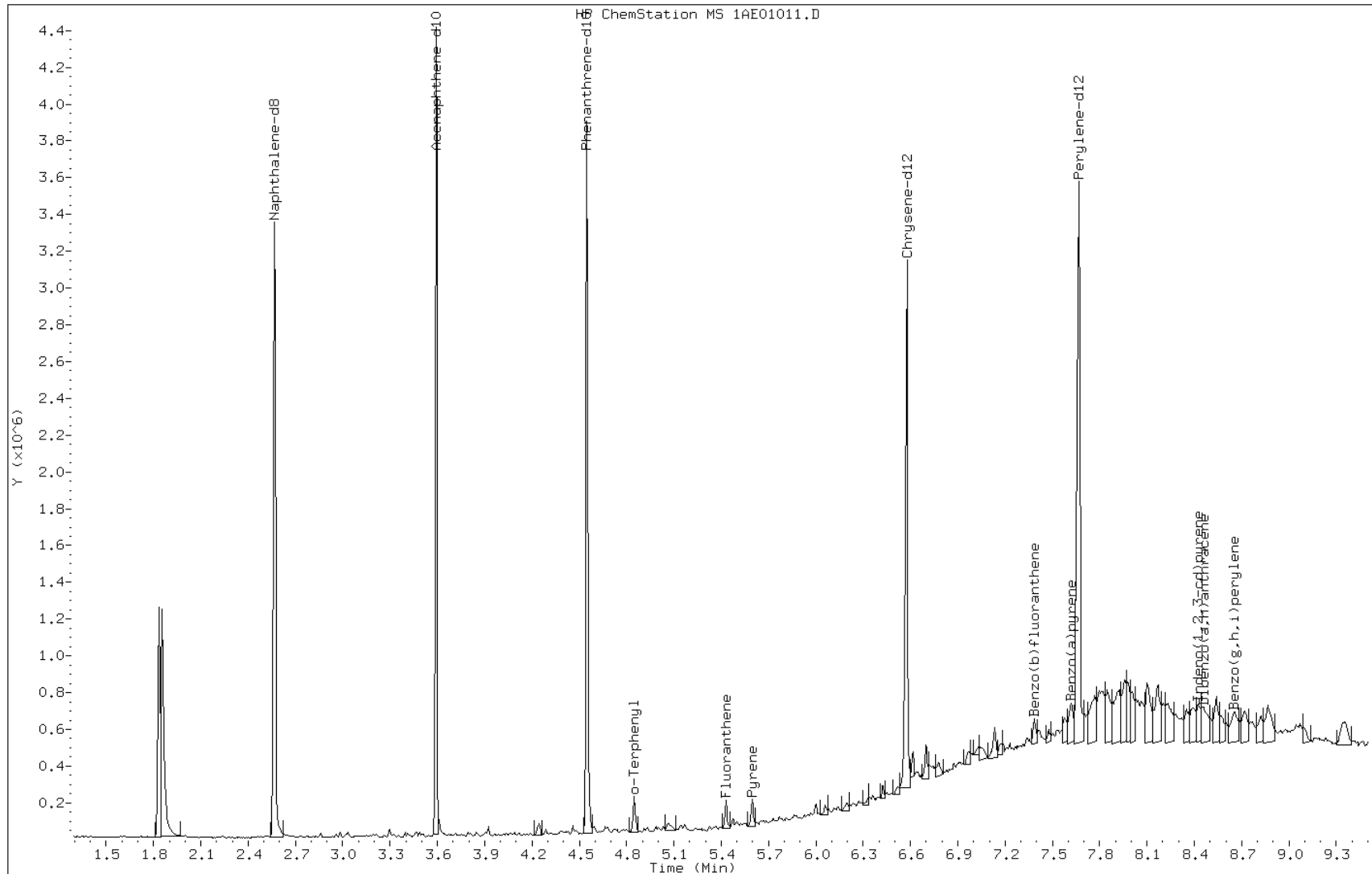
Date: 01-MAY-2013 15:32

Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

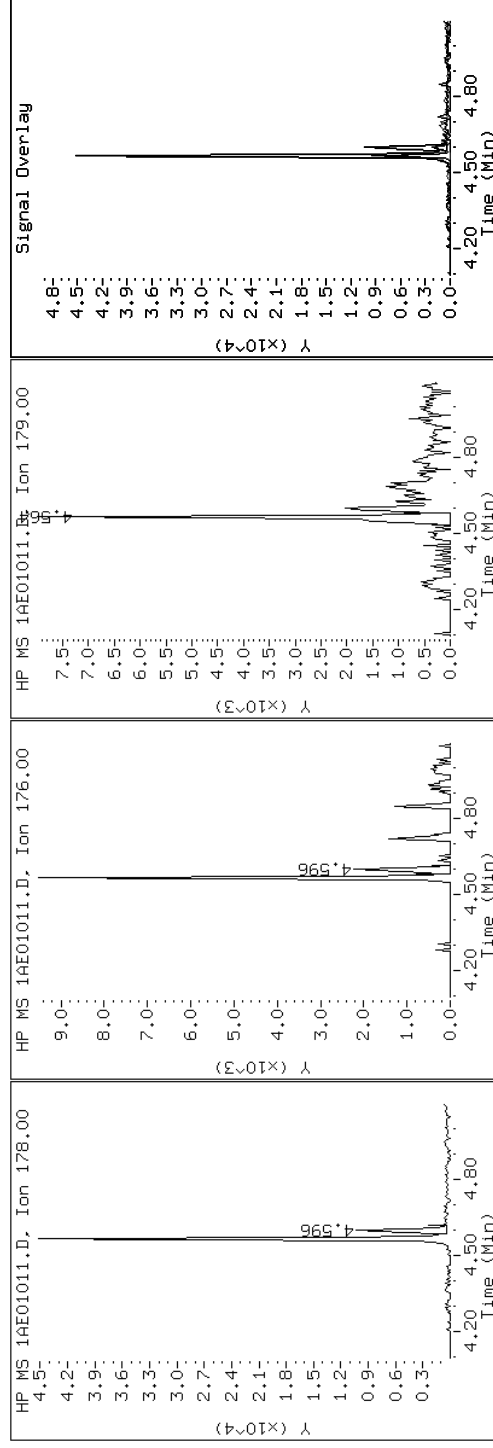
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

12 Anthracene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

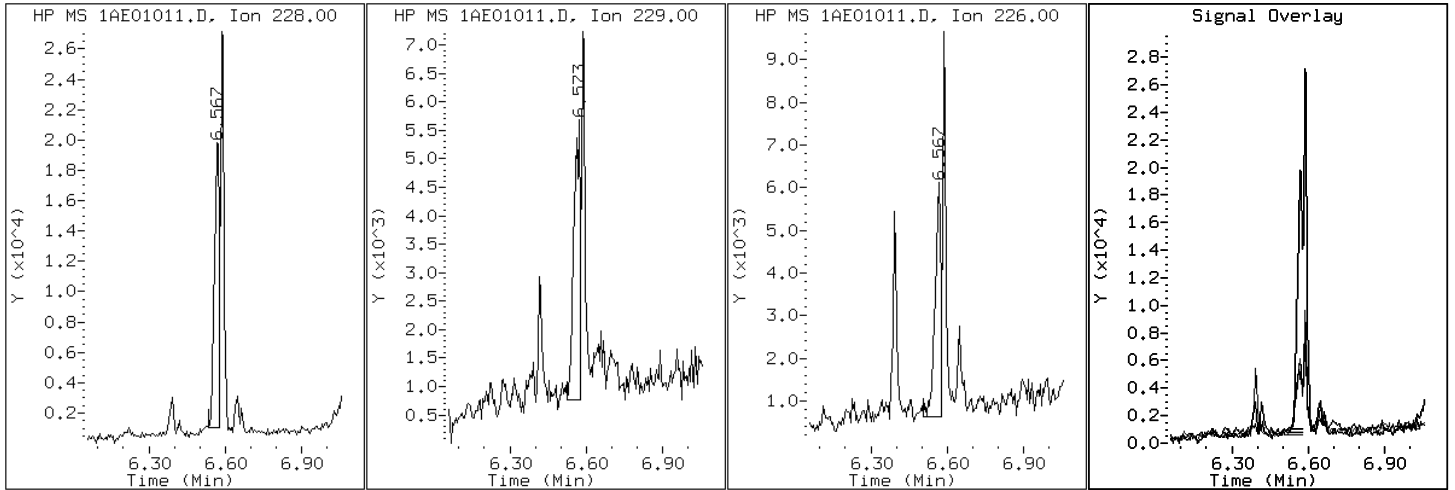
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

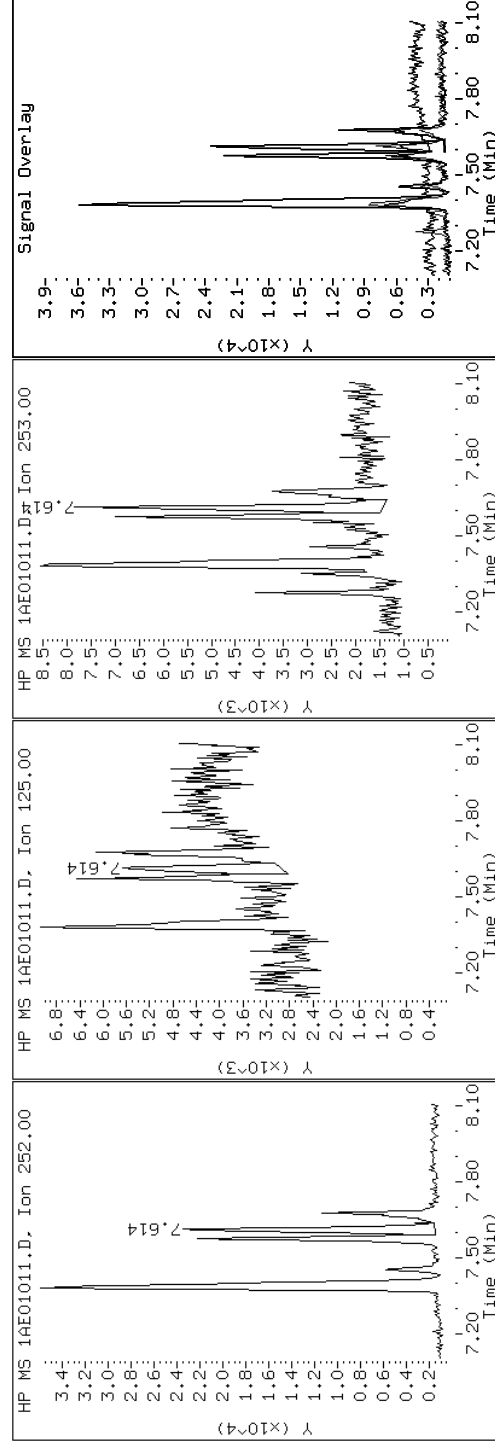
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

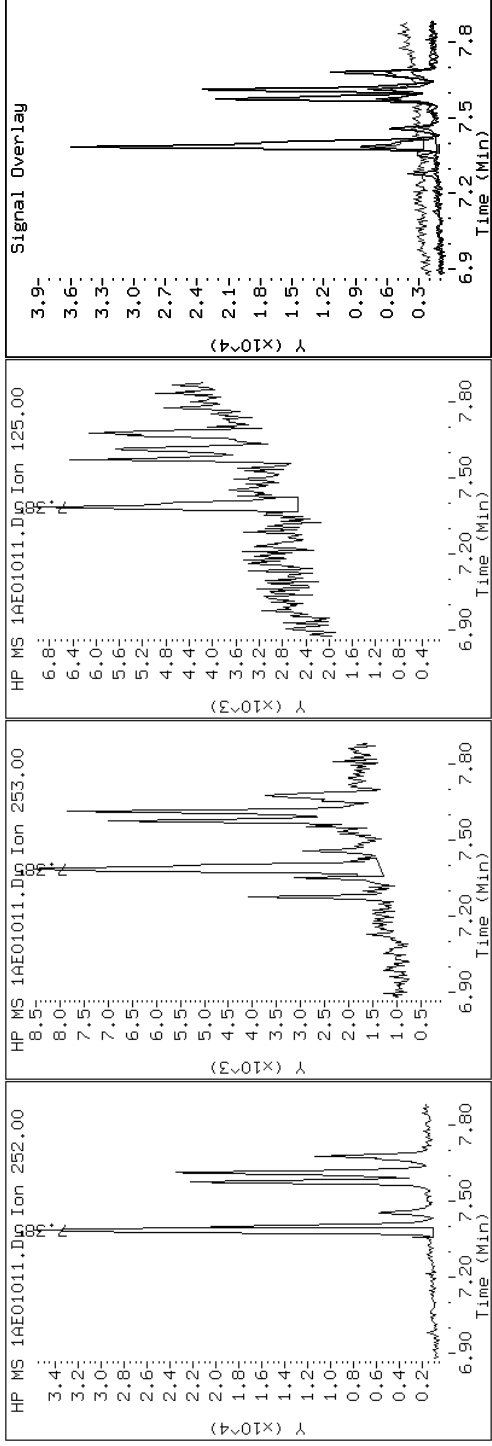
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

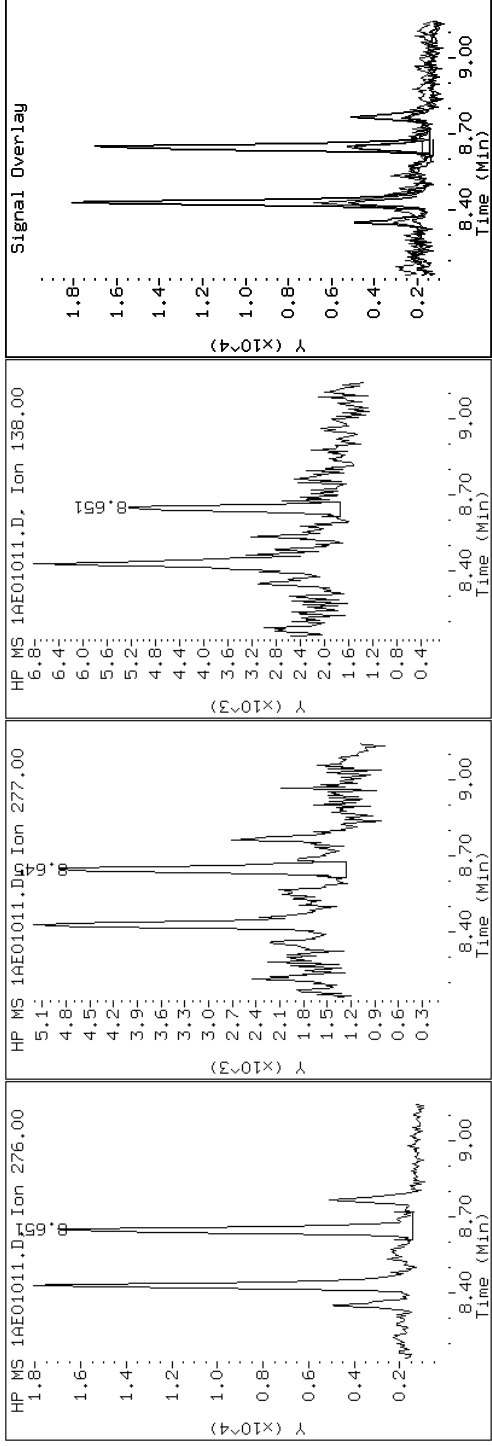
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

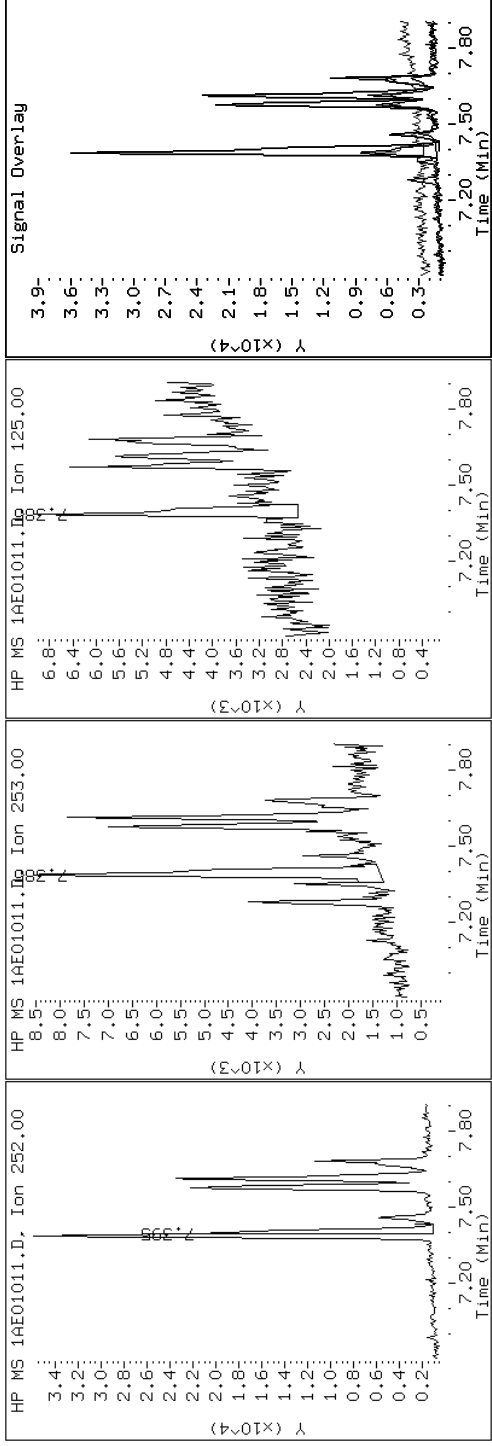
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

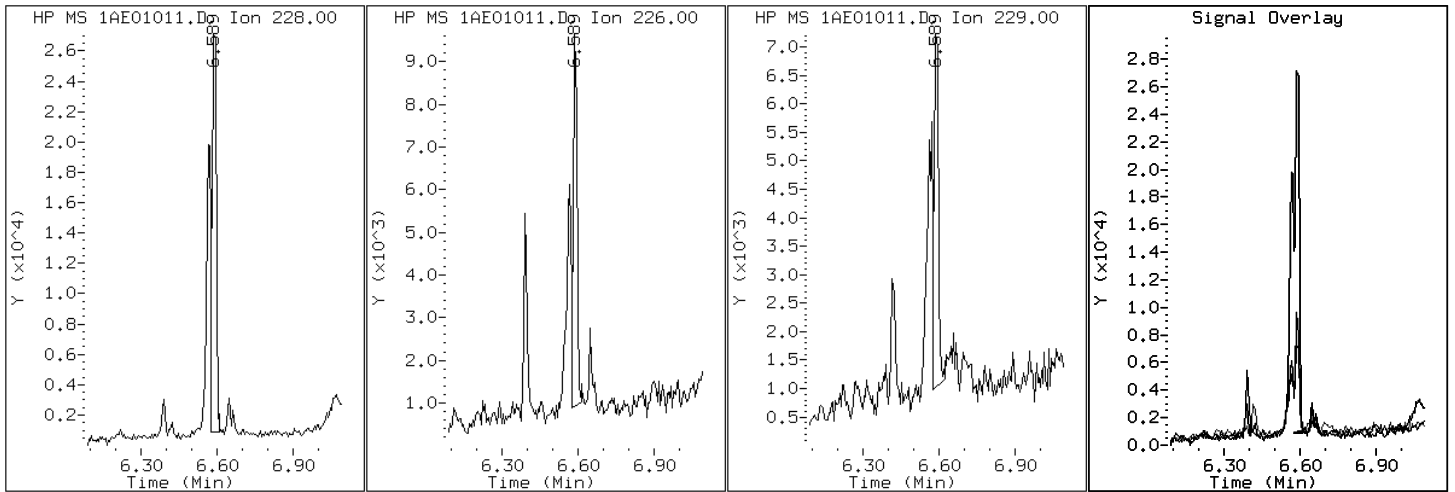
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

19 Chrysene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

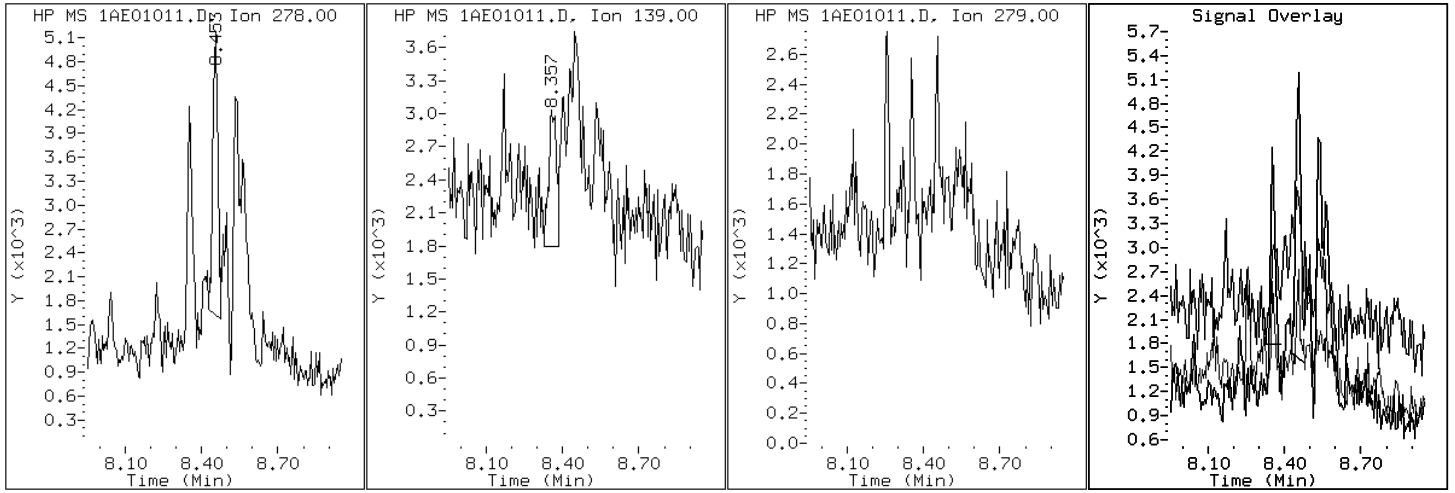
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

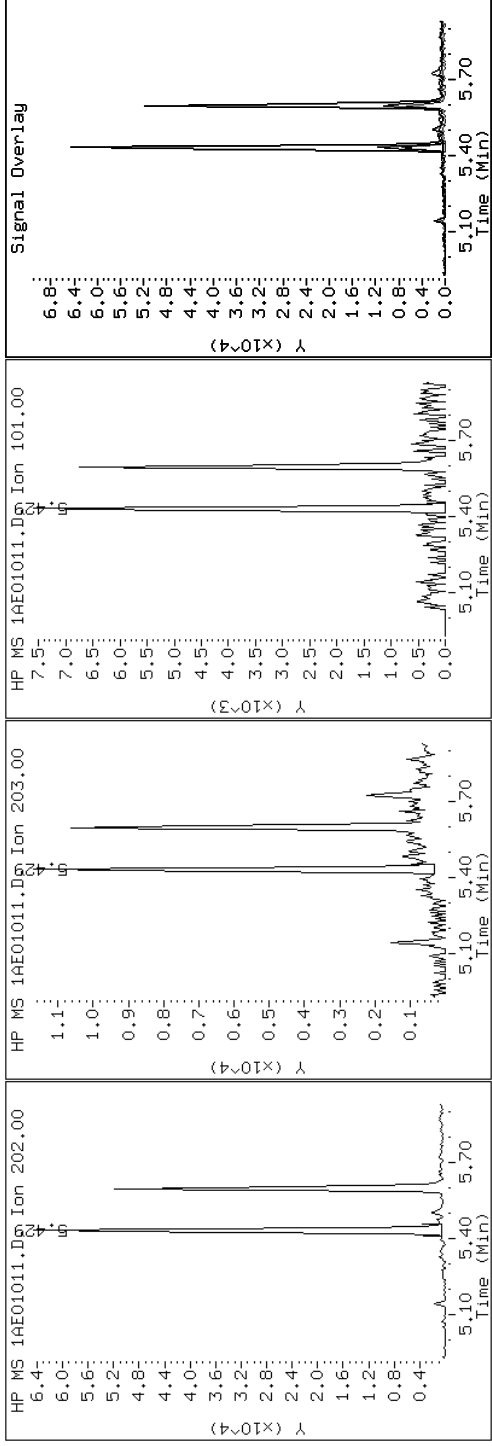
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

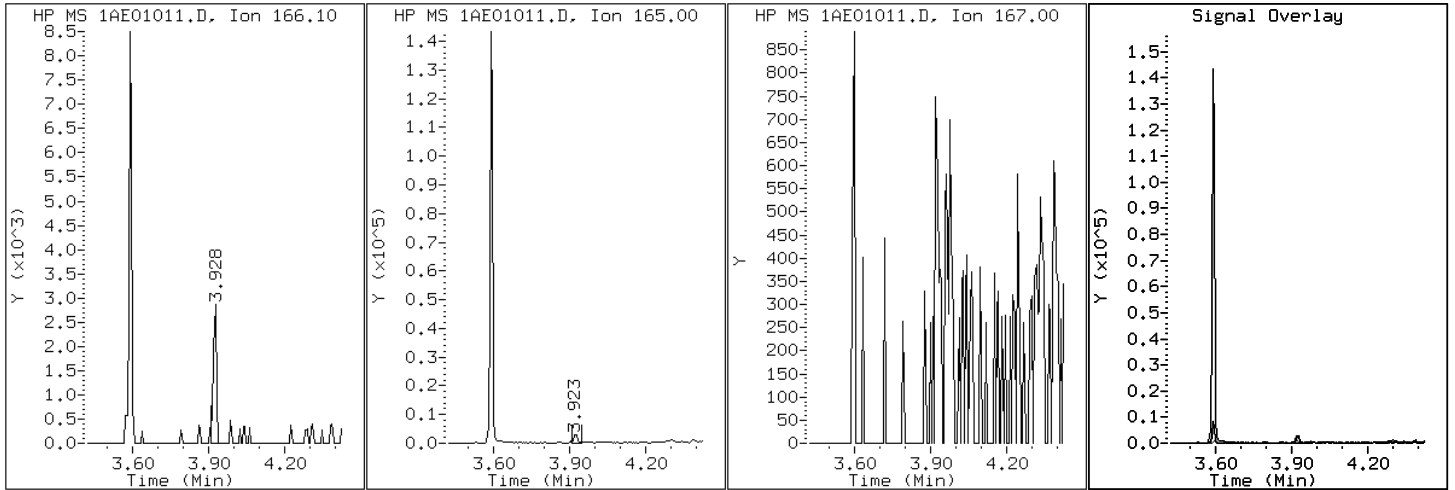
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

9 Fluorene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

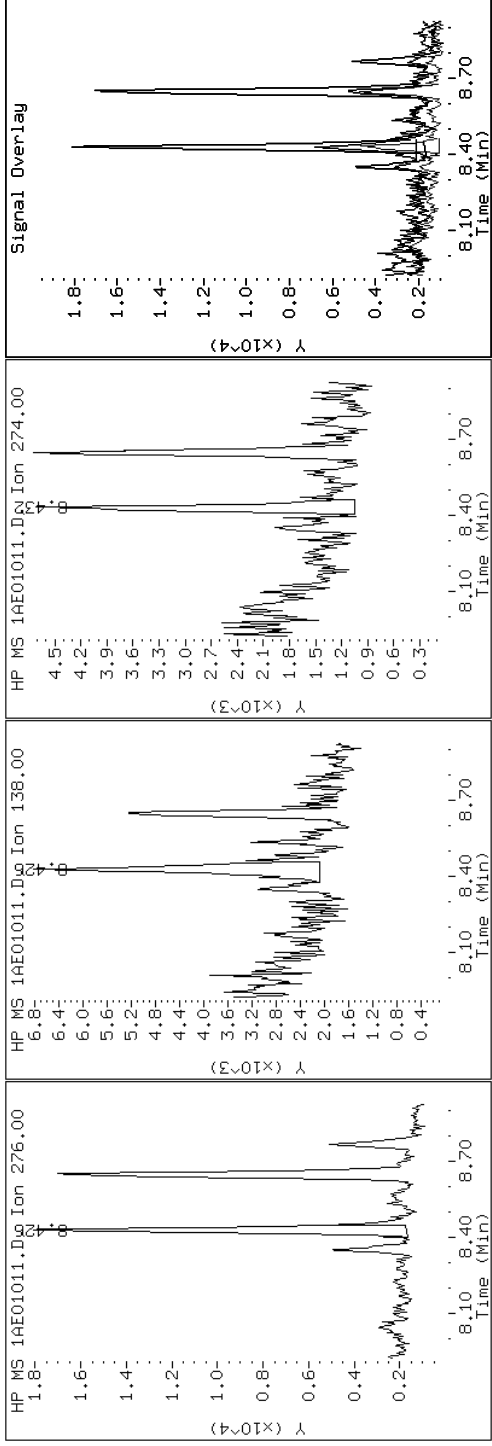
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

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



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

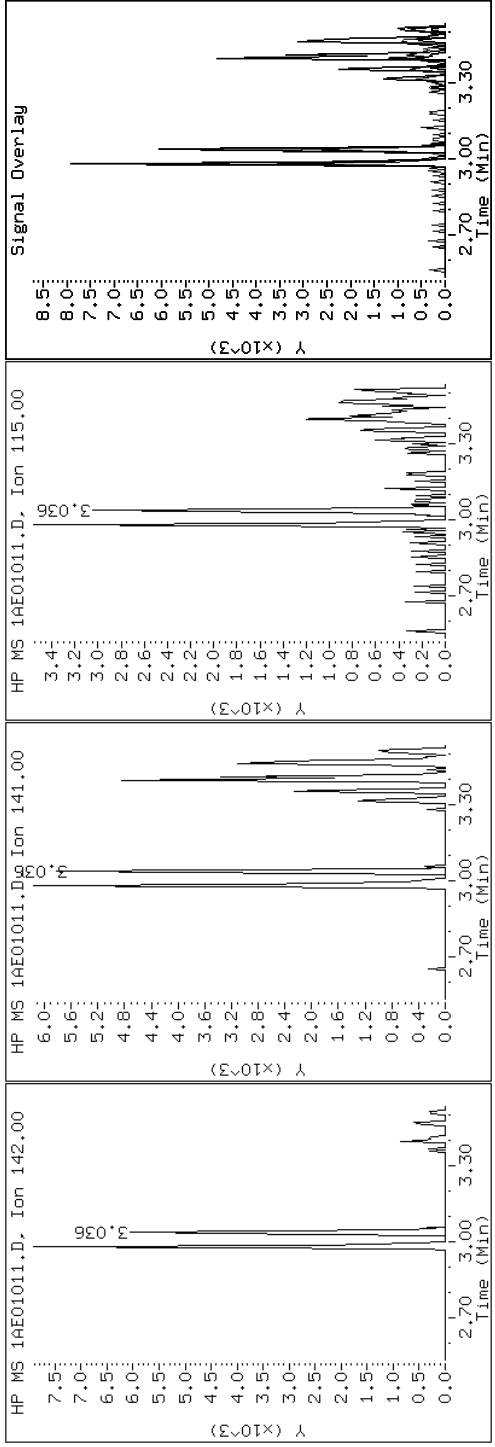
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

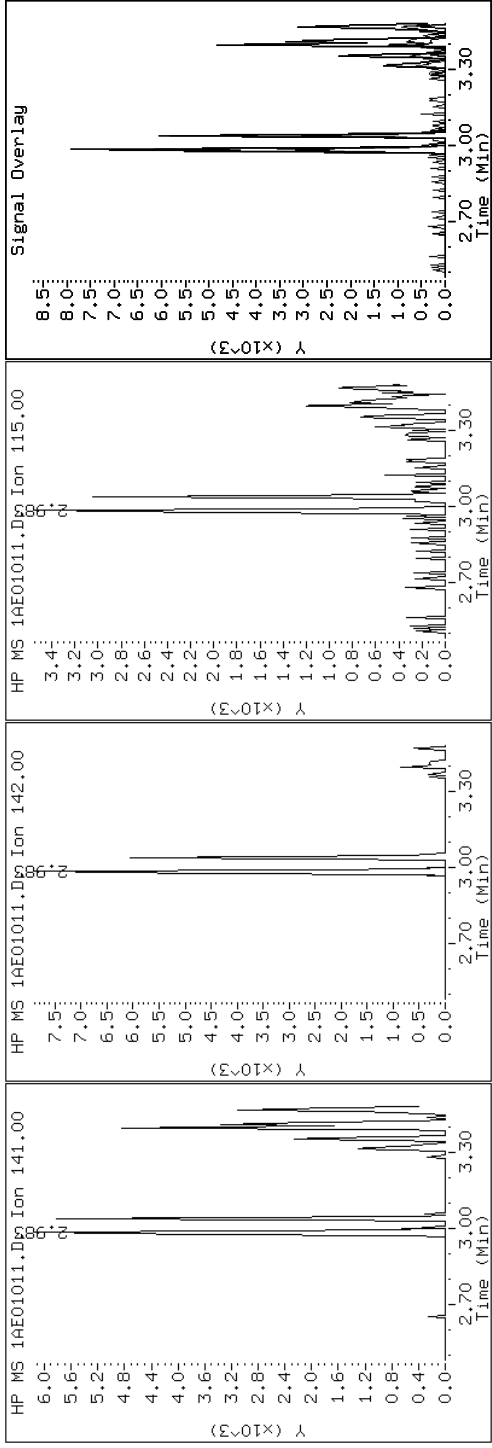
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

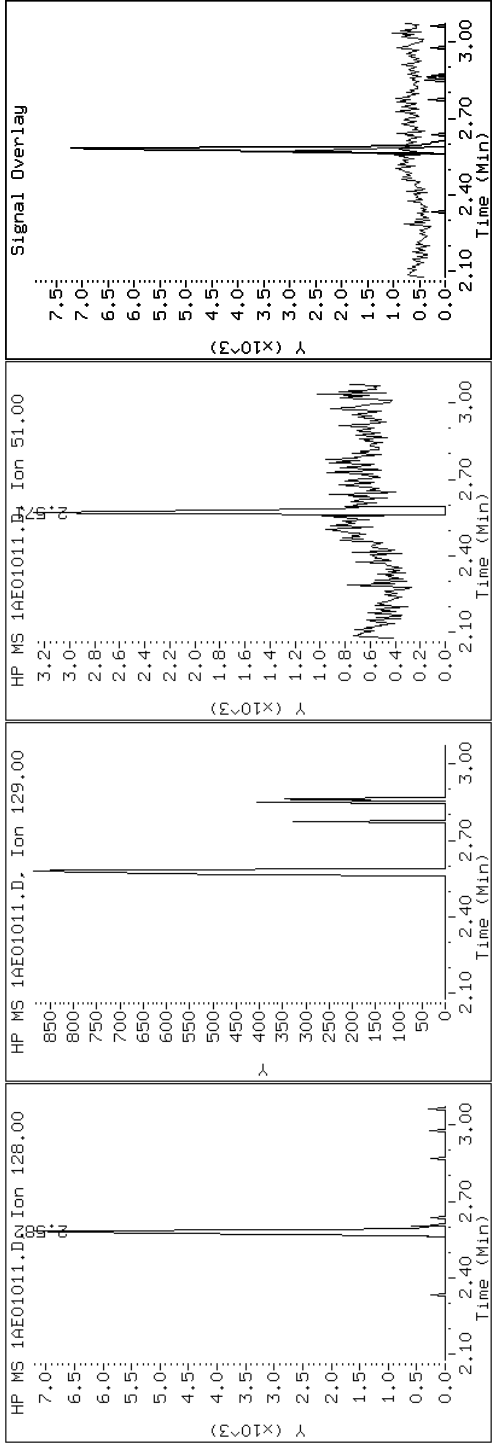
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

2 Naphthalene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

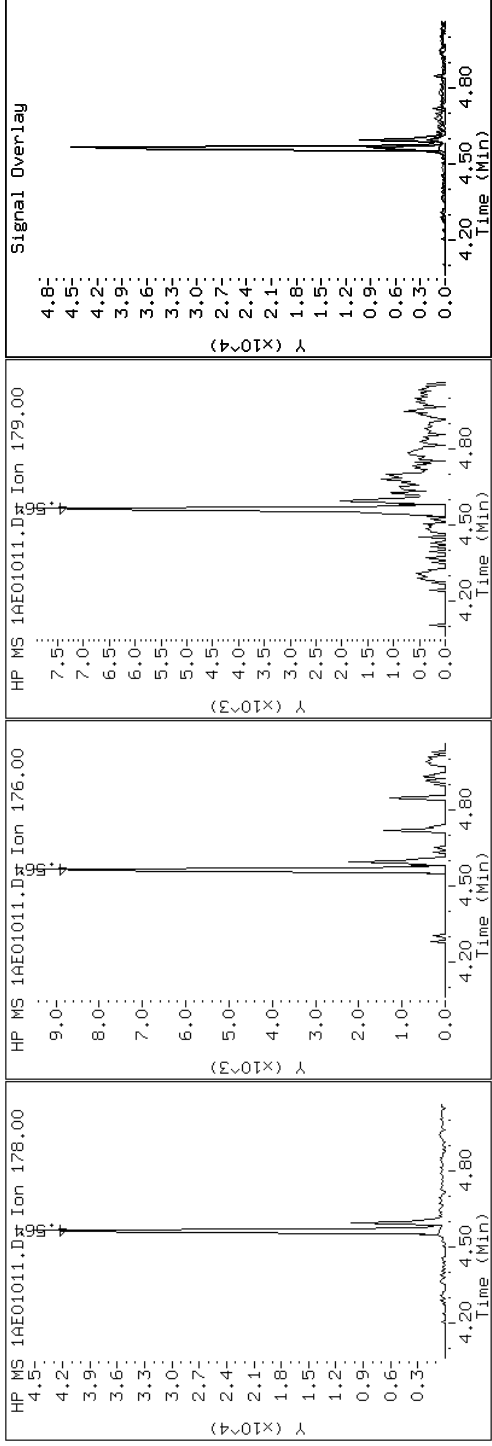
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01011.D

Date: 01-MAY-2013 15:32

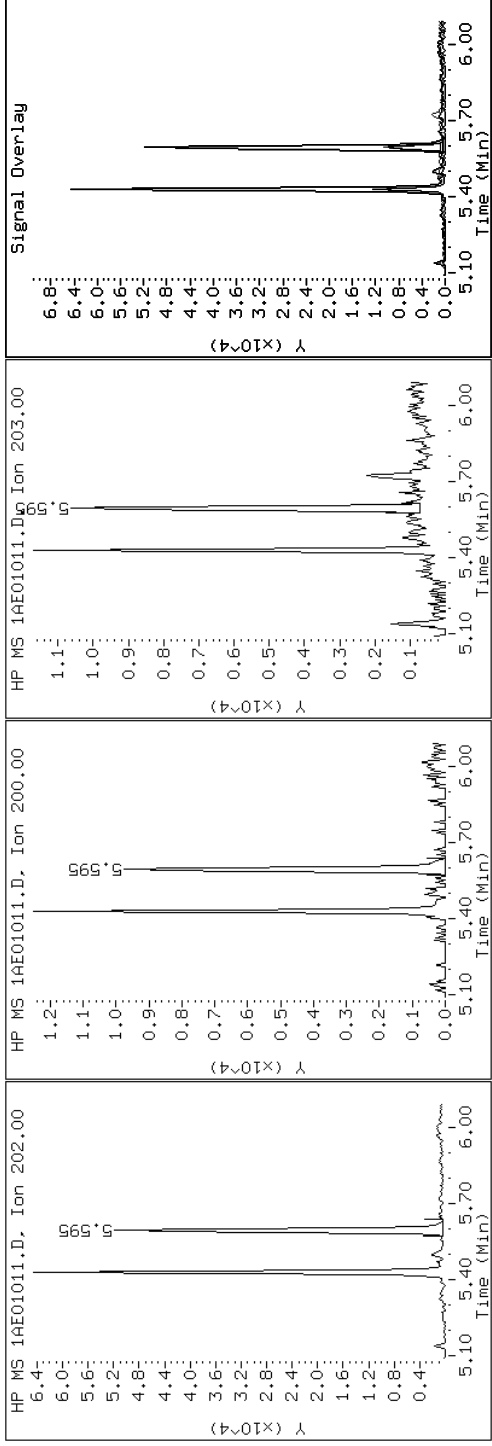
Client ID: CV1158A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-a

Operator: SCC

16 Pyrene

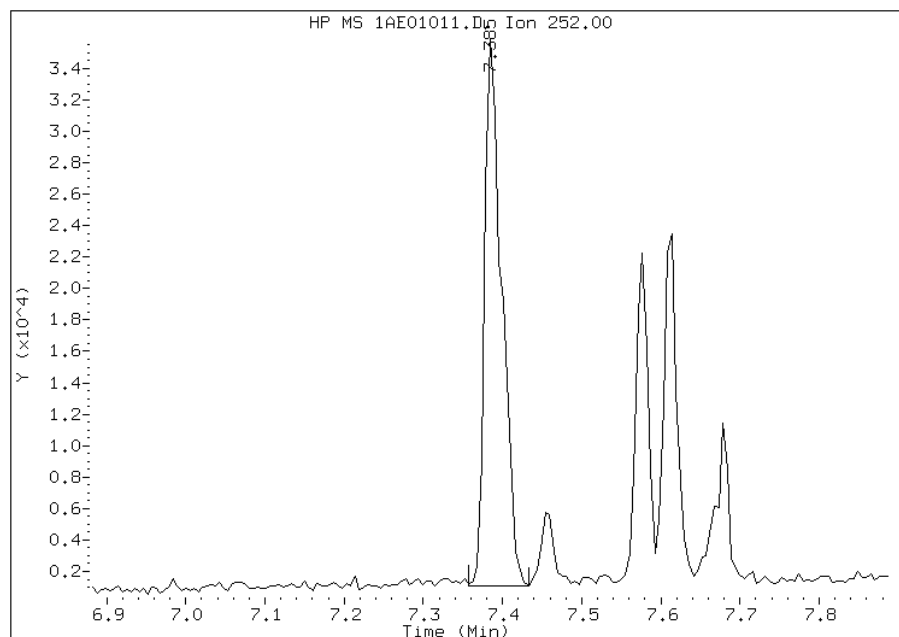


Manual Integration Report

Data File: 1AE01011.D
Inj. Date and Time: 01-MAY-2013 15:32
Instrument ID: BSMA5973.i
Client ID: CV1158A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/01/2013

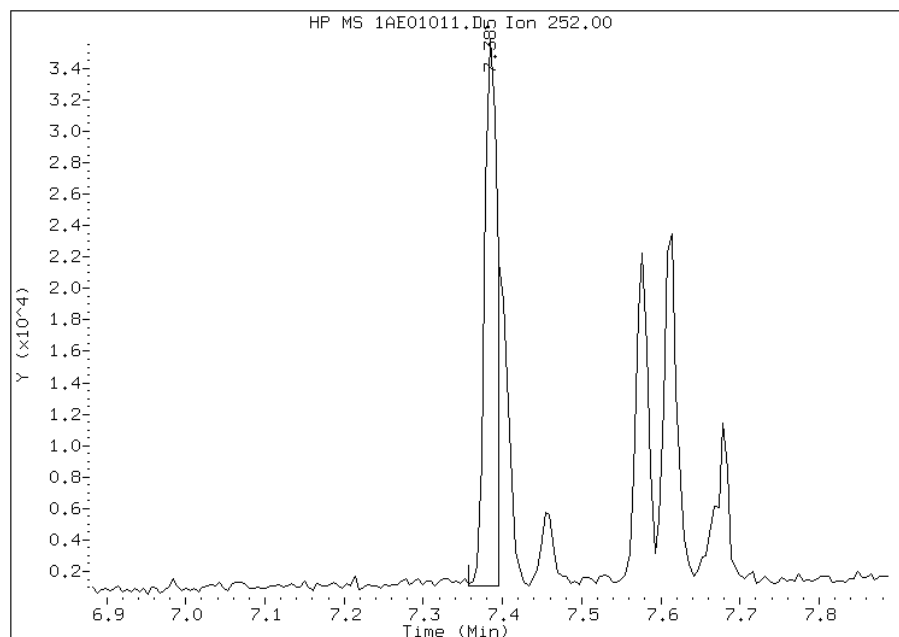
Processing Integration Results

RT: 7.38
Response: 52008
Amount: 1
Conc: 423



Manual Integration Results

RT: 7.38
Response: 38678
Amount: 1
Conc: 315



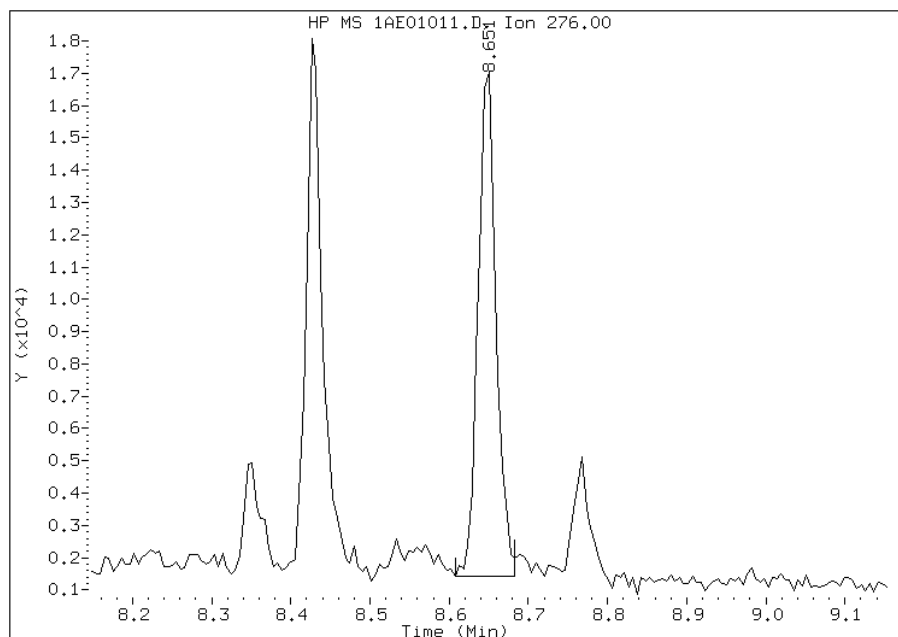
Manually Integrated By: cantins
Modification Date: 01-May-2013 15:50
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE01011.D
Inj. Date and Time: 01-MAY-2013 15:32
Instrument ID: BSMA5973.i
Client ID: CV1158A-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 05/01/2013

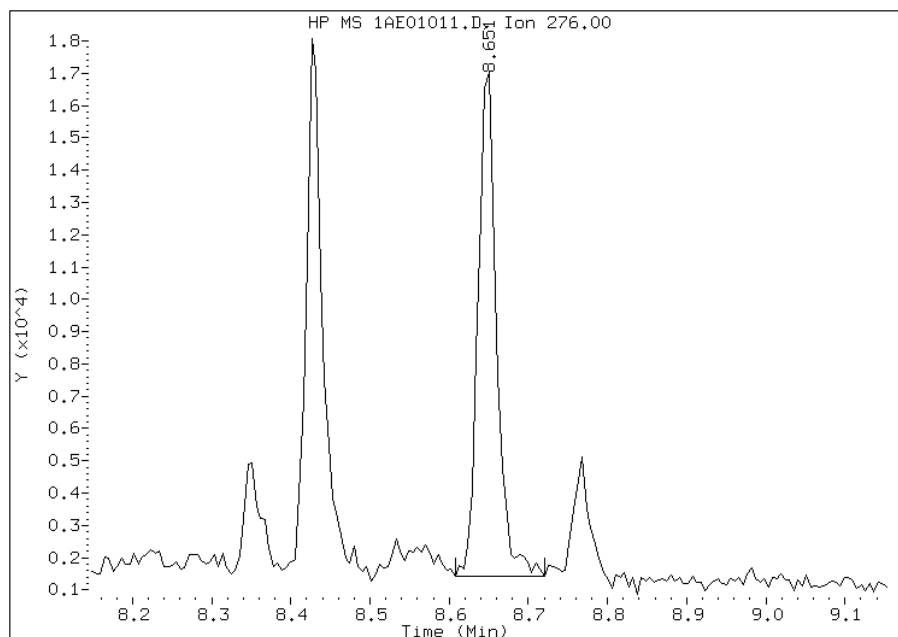
Processing Integration Results

RT: 8.65
Response: 24445
Amount: 1
Conc: 189



Manual Integration Results

RT: 8.65
Response: 25267
Amount: 1
Conc: 196



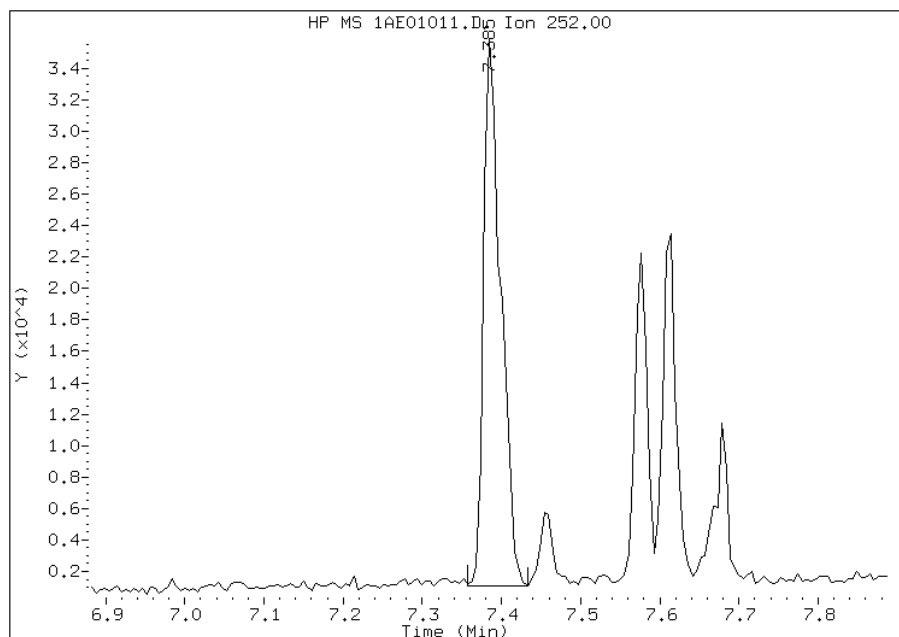
Manually Integrated By: cantins
Modification Date: 01-May-2013 15:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE01011.D
Inj. Date and Time: 01-MAY-2013 15:32
Instrument ID: BSMA5973.i
Client ID: CV1158A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/01/2013

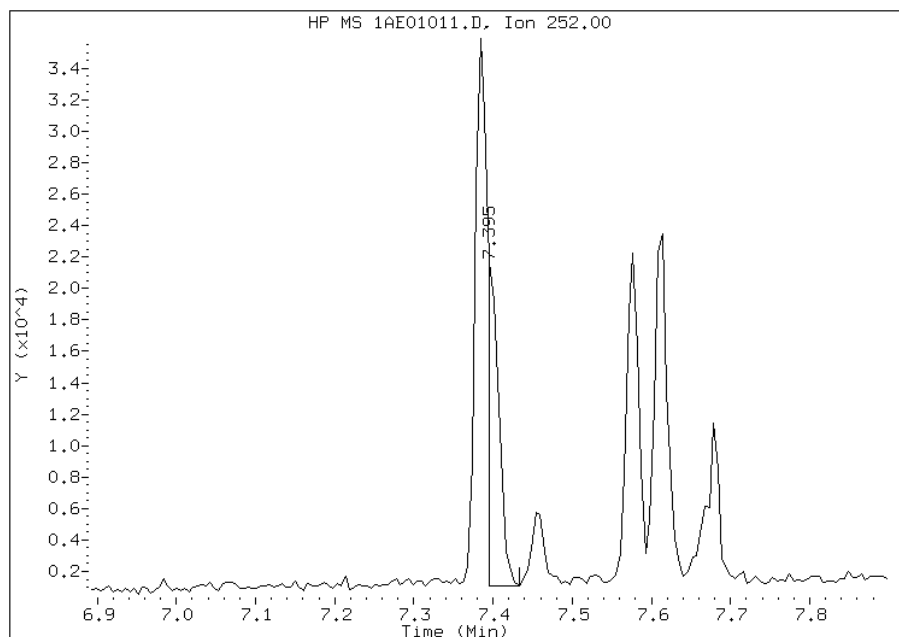
Processing Integration Results

RT: 7.38
Response: 52008
Amount: 1
Conc: 368



Manual Integration Results

RT: 7.40
Response: 19819
Amount: 0
Conc: 140



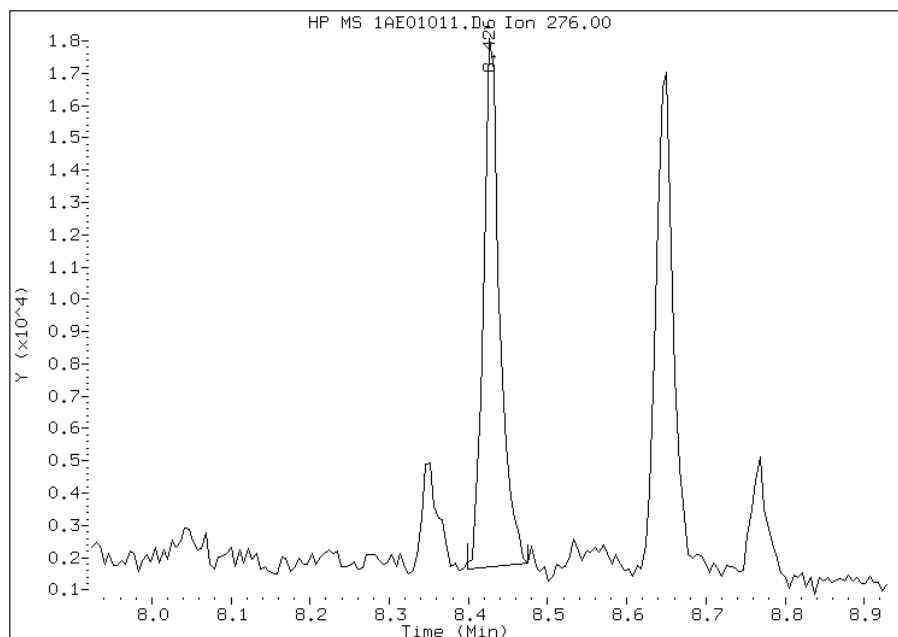
Manually Integrated By: cantins
Modification Date: 01-May-2013 15:50
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE01011.D
Inj. Date and Time: 01-MAY-2013 15:32
Instrument ID: BSMA5973.i
Client ID: CV1158A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/01/2013

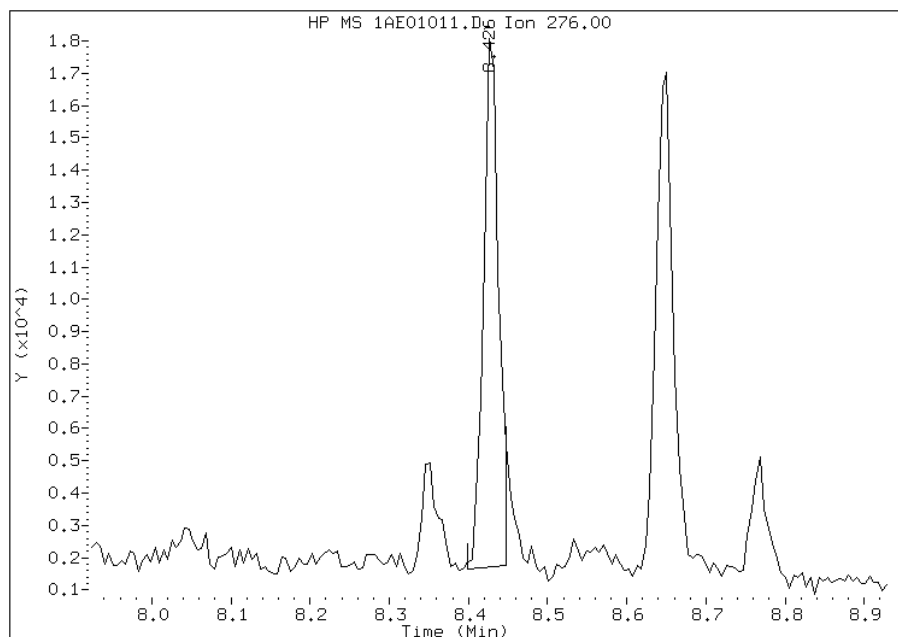
Processing Integration Results

RT: 8.43
Response: 23110
Amount: 1
Conc: 200



Manual Integration Results

RT: 8.43
Response: 21667
Amount: 1
Conc: 188



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV1158B-CS Lab Sample ID: 680-89695-22
 Matrix: Solid Lab File ID: 1AD29024.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 15:00
 Extract. Method: 3546 Date Extracted: 04/26/2013 07:28
 Sample wt/vol: 15.03(g) Date Analyzed: 04/29/2013 17:55
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136961 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	57		50	6.2
120-12-7	Anthracene	140		10	5.2
56-55-3	Benzo[a]anthracene	290		10	4.9
50-32-8	Benzo[a]pyrene	260		13	6.5
205-99-2	Benzo[b]fluoranthene	460		15	7.6
191-24-2	Benzo[g,h,i]perylene	180		25	5.5
207-08-9	Benzo[k]fluoranthene	140		10	4.5
218-01-9	Chrysene	330		11	5.6
53-70-3	Dibenz(a,h)anthracene	58		25	5.1
206-44-0	Fluoranthene	730		25	5.0
86-73-7	Fluorene	49		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	200		25	8.8
90-12-0	1-Methylnaphthalene	44	J	50	5.5
91-57-6	2-Methylnaphthalene	50		50	8.8
91-20-3	Naphthalene	53		50	5.5
85-01-8	Phenanthrene	560		10	4.9
129-00-0	Pyrene	470		25	4.6

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29024.D
 Lab Smp Id: 680-89695-A-22-A Client Smp ID: CV1158B-CS
 Inj Date : 29-APR-2013 17:55
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-22-a
 Misc Info : 680-89695-A-22-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
 Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 24
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	19.913	% 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			2.581	2.572	(1.000)	1678534	40.0000	
* 6 Acenaphthene-d10	164			3.612	3.603	(1.000)	839181	40.0000	
* 10 Phenanthrene-d10	188			4.568	4.554	(1.000)	1352598	40.0000	
\$ 14 o-Terphenyl	230			4.867	4.859	(1.065)	101678	4.59589	381.8134
* 18 Chrysene-d12	240			6.598	6.574	(1.000)	1535654	40.0000	
* 23 Perylene-d12	264			7.693	7.663	(1.000)	1780995	40.0000	
2 Naphthalene	128			2.591	2.583	(1.004)	26567	0.63315	52.6004
3 2-Methylnaphthalene	141			2.997	2.989	(1.161)	14503	0.60287	50.0847
4 1-Methylnaphthalene	142			3.056	3.048	(1.184)	14109	0.52937	43.9781
5 Acenaphthylene	152			3.521	3.513	(0.975)	33700	0.68714	57.0853
9 Fluorene	166			3.943	3.935	(1.092)	18381	0.59400	49.3475
11 Phenanthrene	178			4.579	4.570	(1.002)	264298	6.74538	560.3867
12 Anthracene	178			4.616	4.608	(1.011)	66852	1.64091	136.3216
13 Carbazole	167			4.750	4.736	(1.040)	38853	0.98856	82.1269

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.450	5.436 (1.193)		396390	8.75881	727.6563
16 Pyrene	202	5.615	5.601 (0.851)		329952	5.63190	467.8816
17 Benzo(a)anthracene	228	6.587	6.563 (0.998)		172566	3.44100	285.8682
19 Chrysene	228	6.609	6.595 (1.002)		199530	3.92172	325.8053
20 Benzo(b)fluoranthene	252	7.410	7.380 (0.963)		300819	5.56352	462.2007(M)
21 Benzo(k)fluoranthene	252	7.421	7.407 (0.965)		102943	1.65592	137.5686(QM)
22 Benzo(a)pyrene	252	7.634	7.610 (0.992)		171245	3.18360	264.4844
24 Indeno(1,2,3-cd)pyrene	276	8.468	8.427 (1.101)		125211	2.46533	204.8128(M)
25 Dibenzo(a,h)anthracene	278	8.495	8.454 (1.104)		33077	0.69995	58.1497
26 Benzo(g,h,i)perylene	276	8.692	8.646 (1.130)		126099	2.21841	184.2986

QC Flag Legend

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

Data File: 1AD29024.D

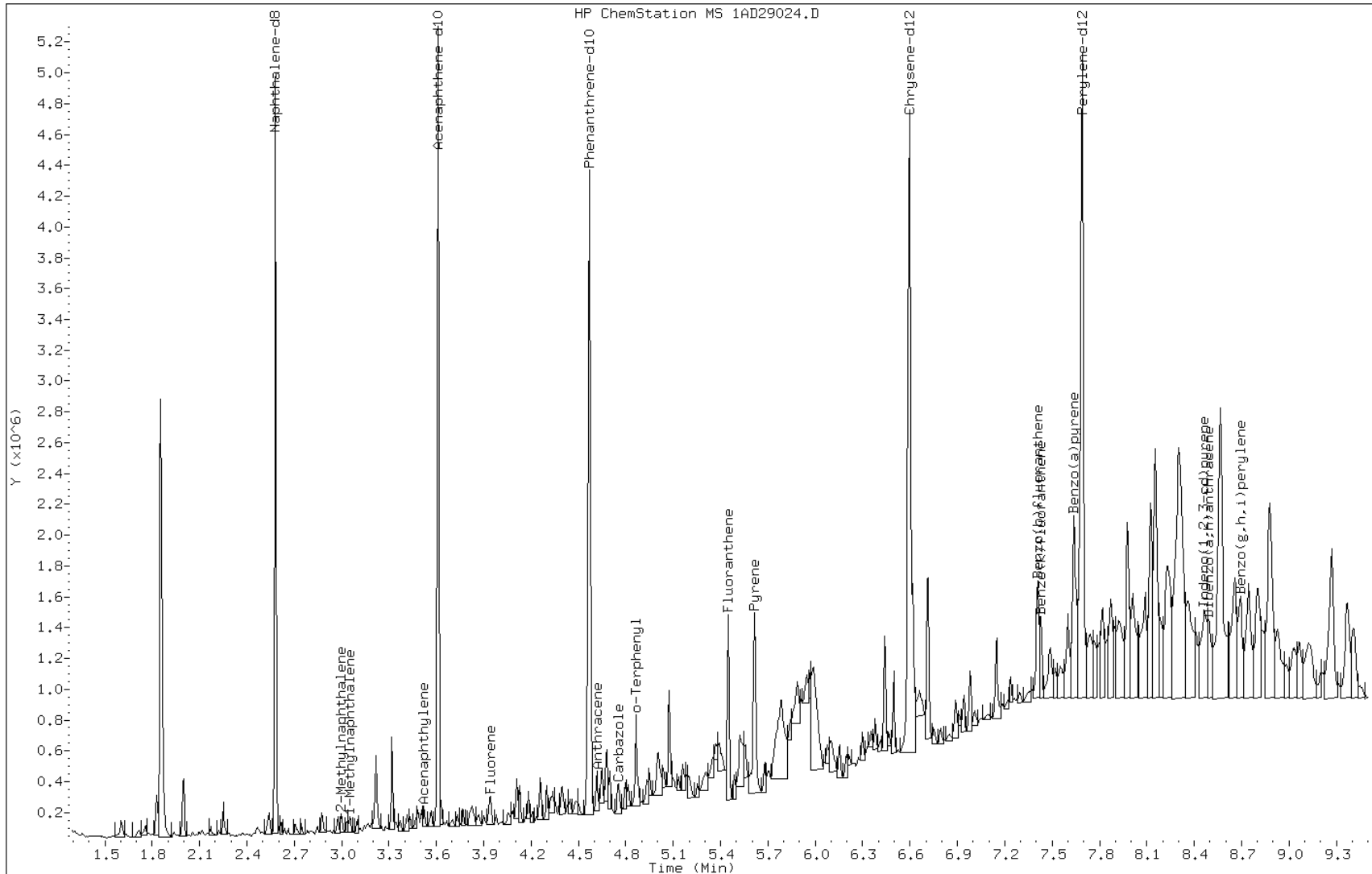
Date: 29-APR-2013 17:55

Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

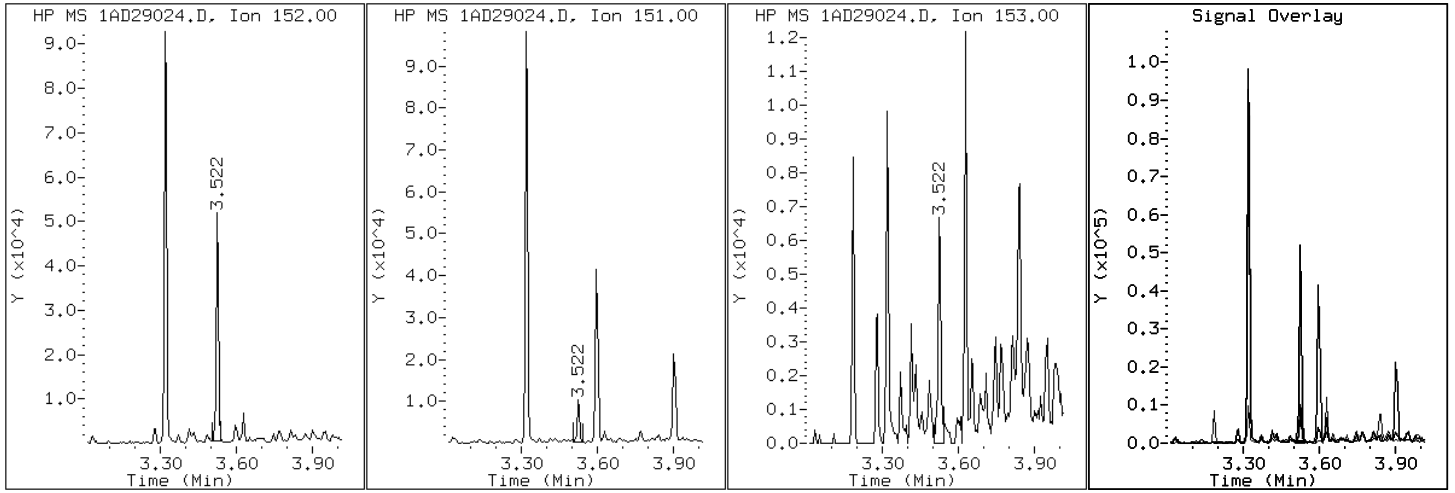
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

5 Acenaphthylene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

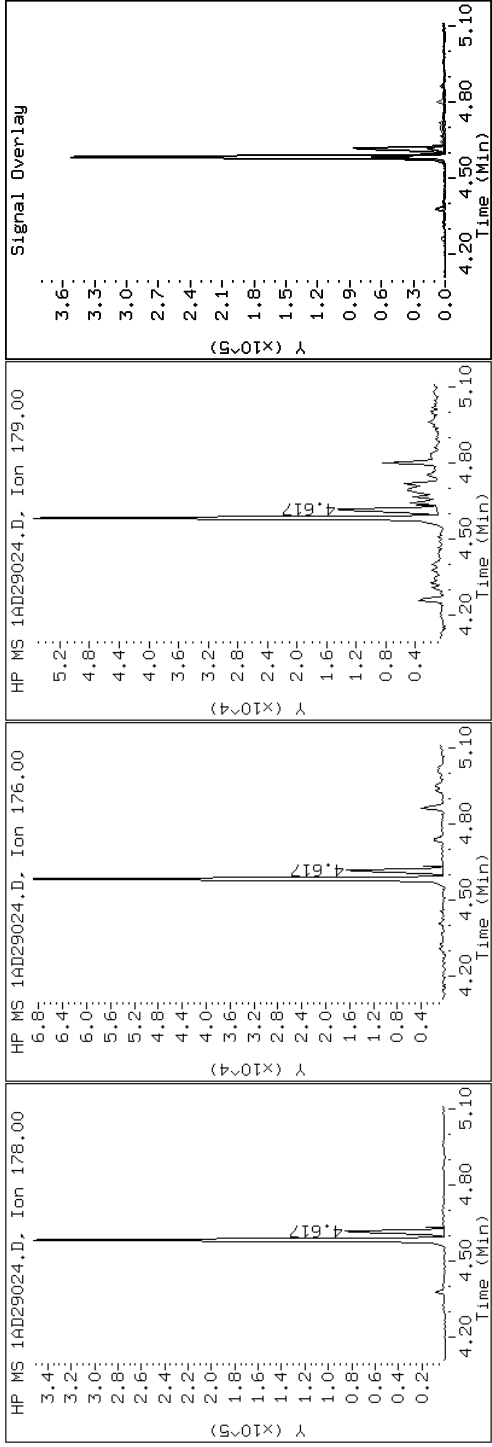
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

12 Anthracene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

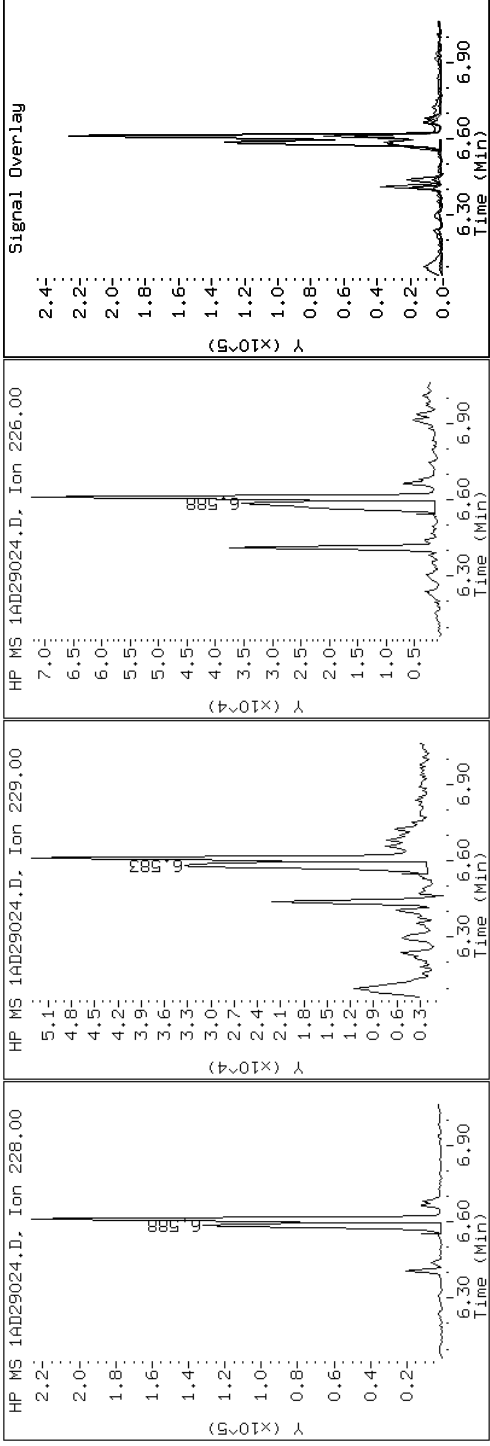
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

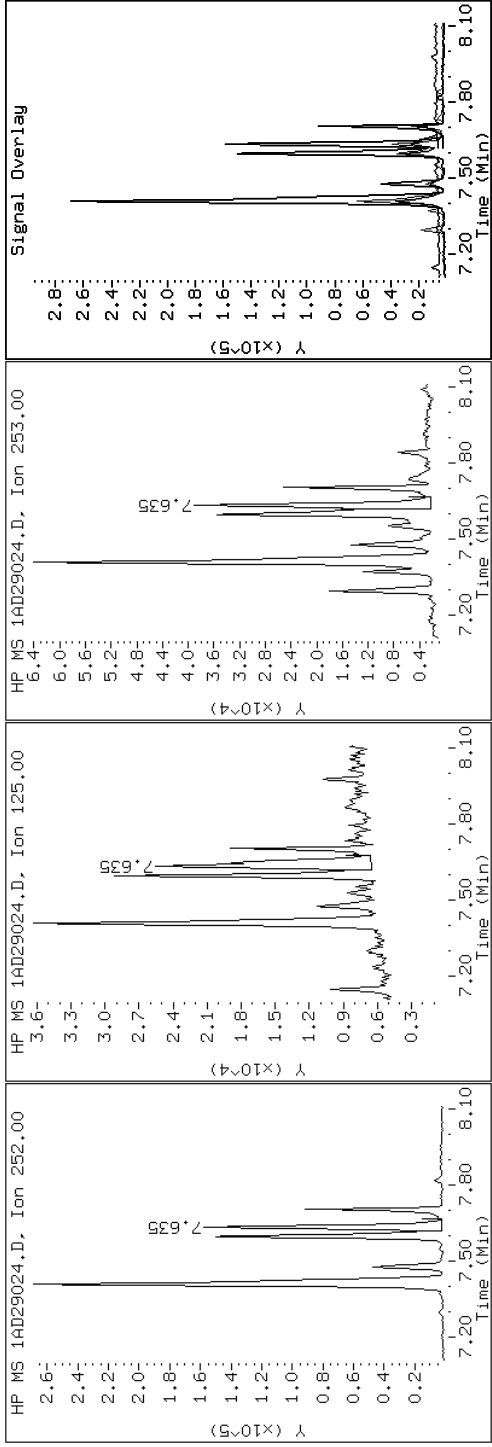
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

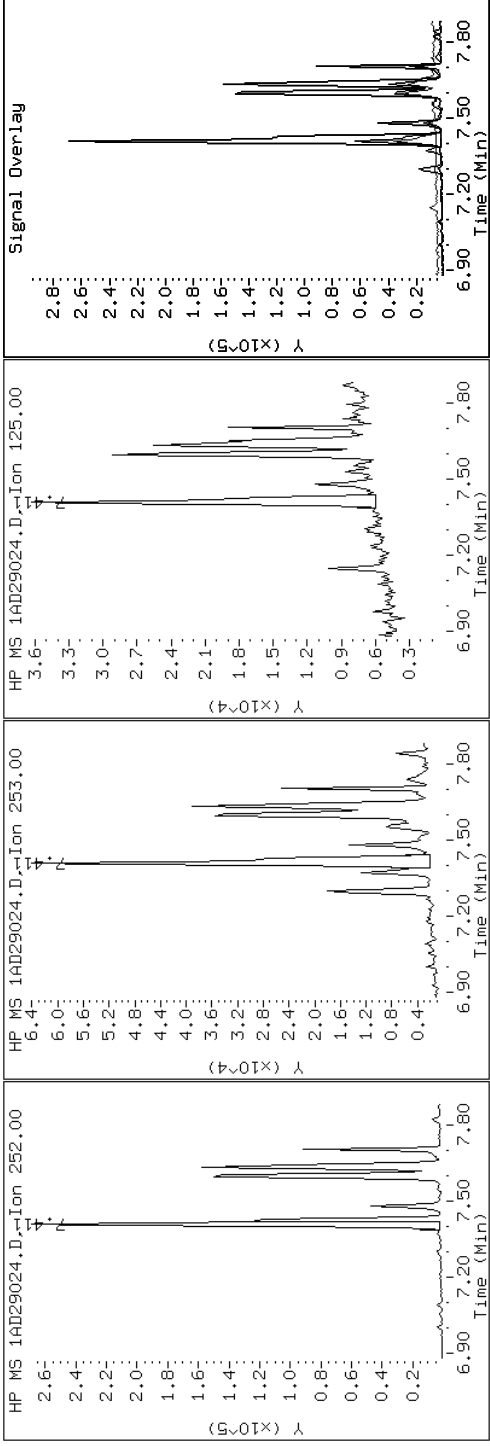
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

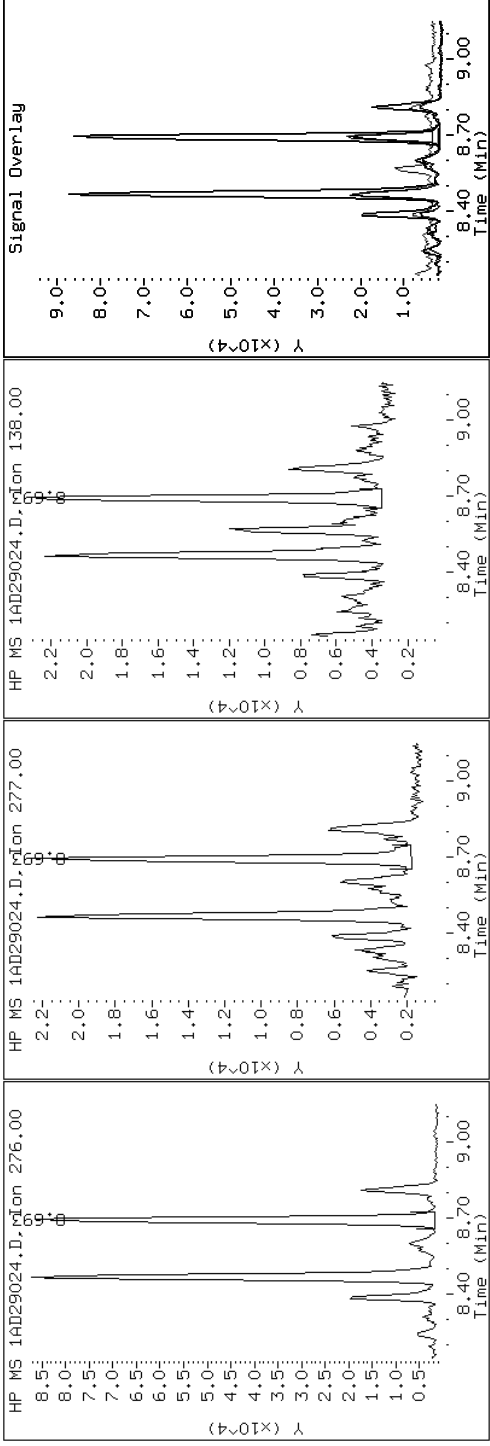
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

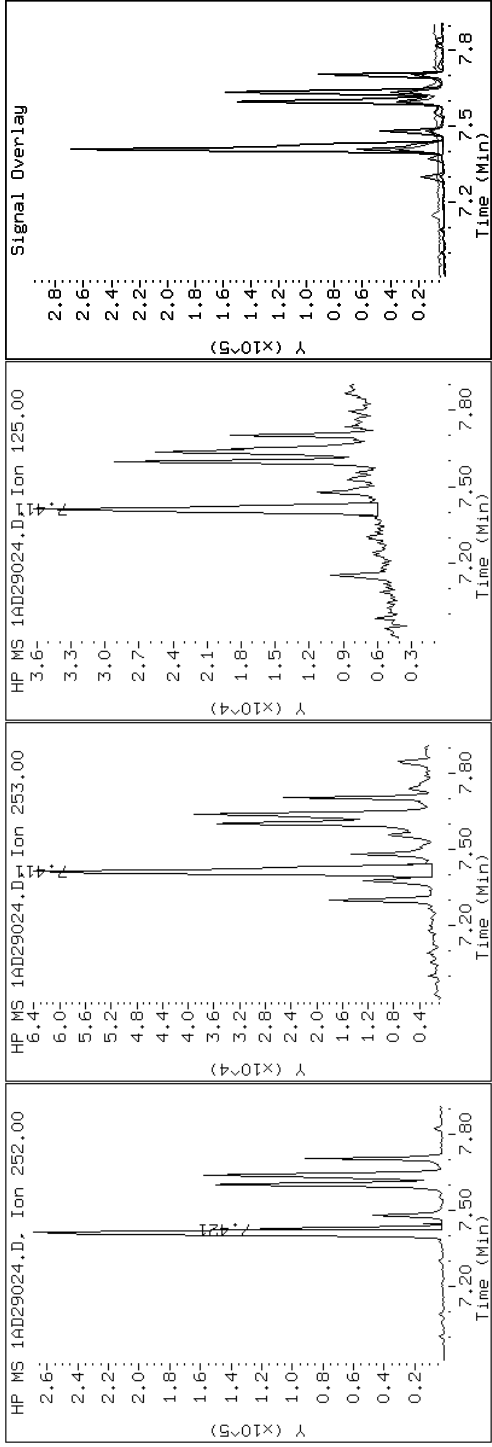
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

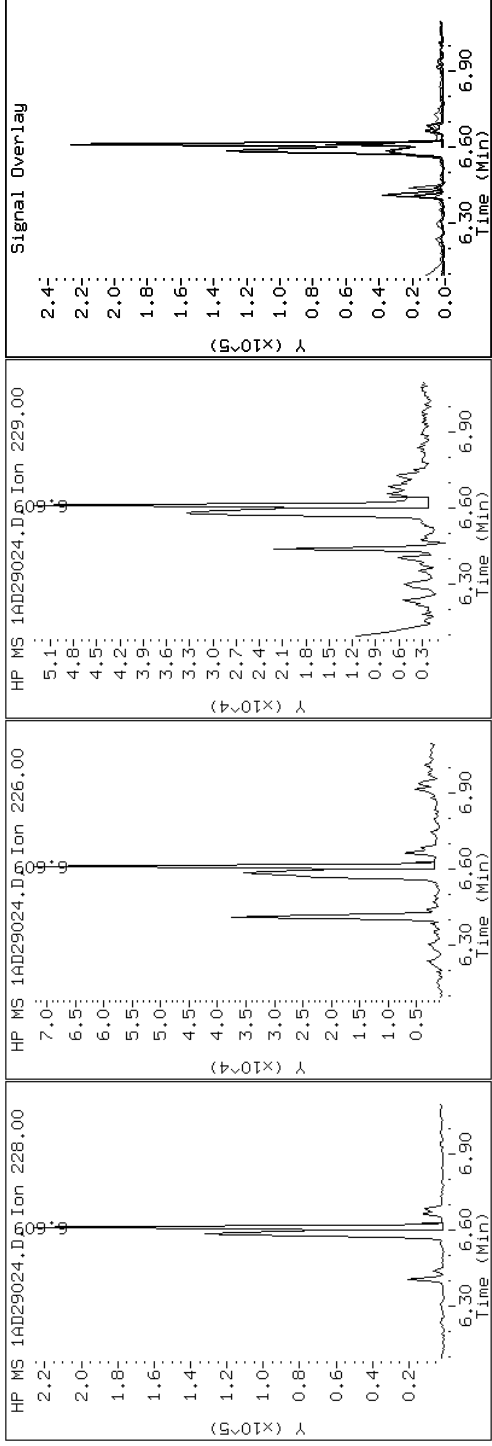
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

19 Chrysene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

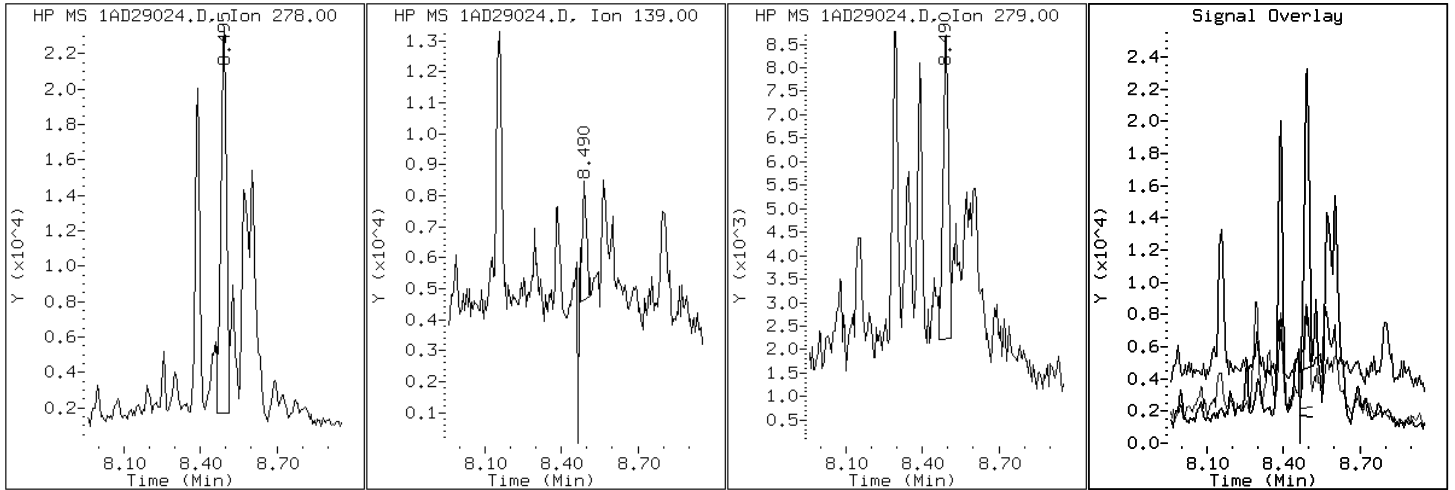
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

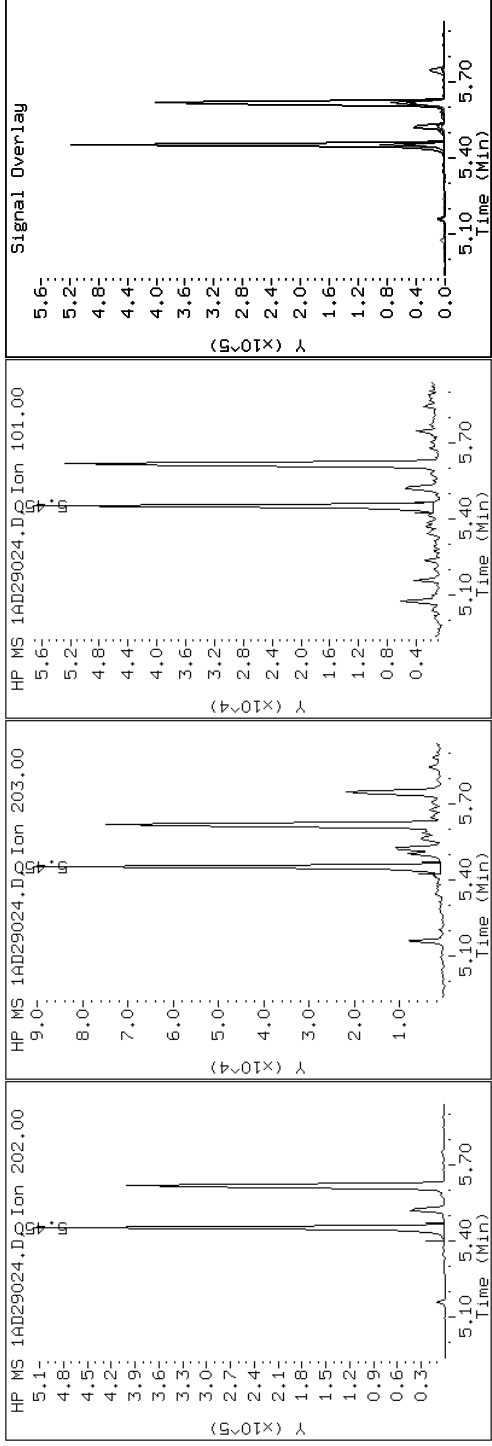
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

15 Fluoranthene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

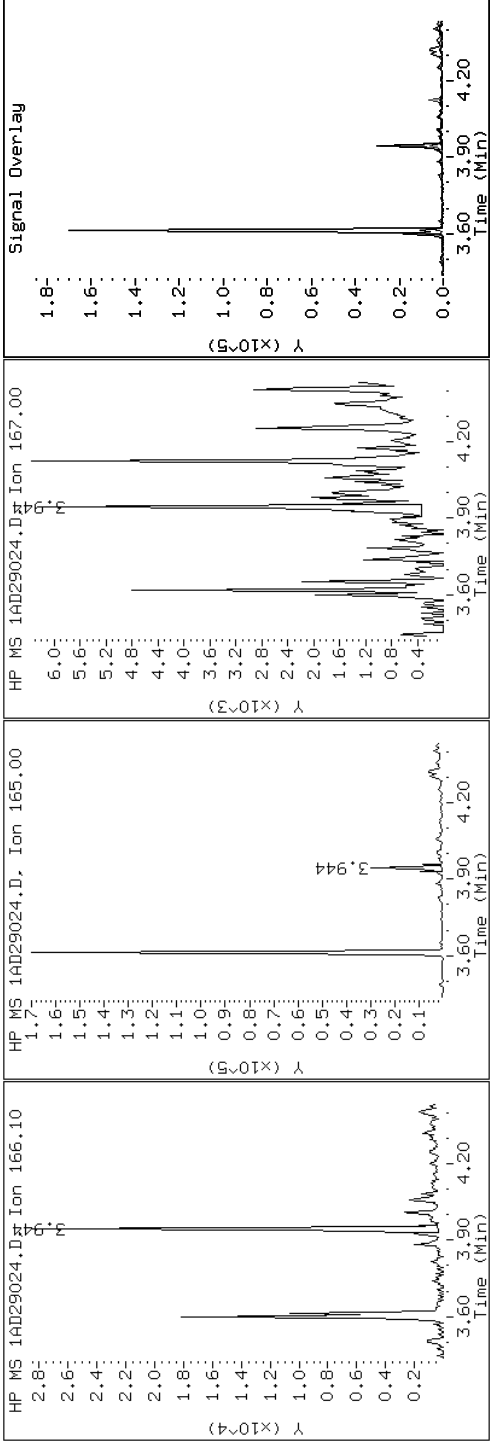
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

9 Fluorene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

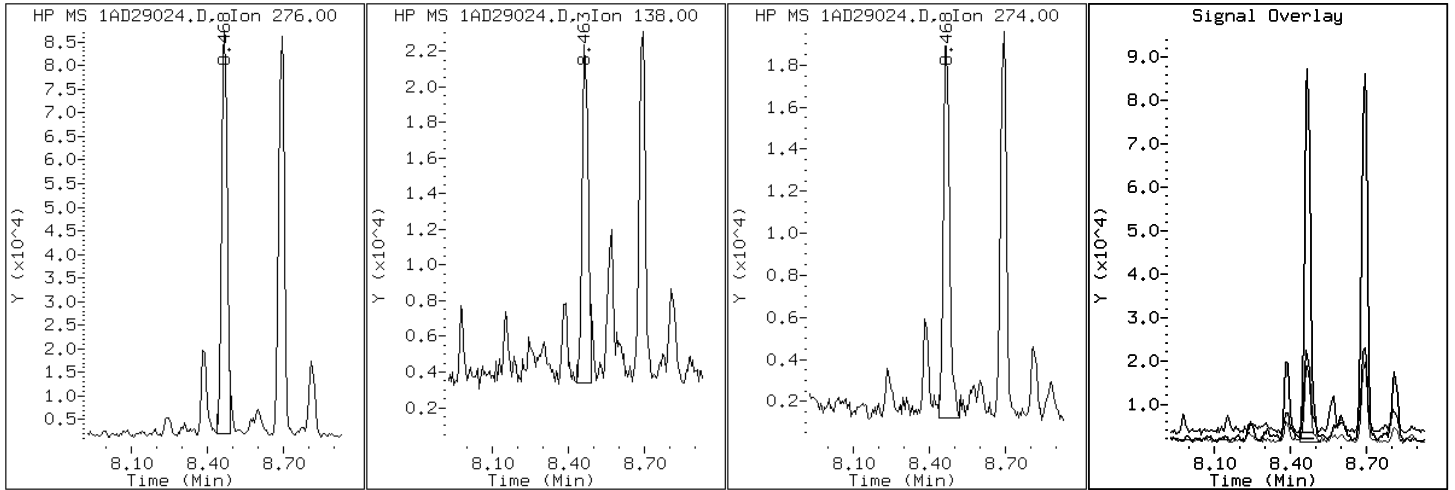
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

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



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

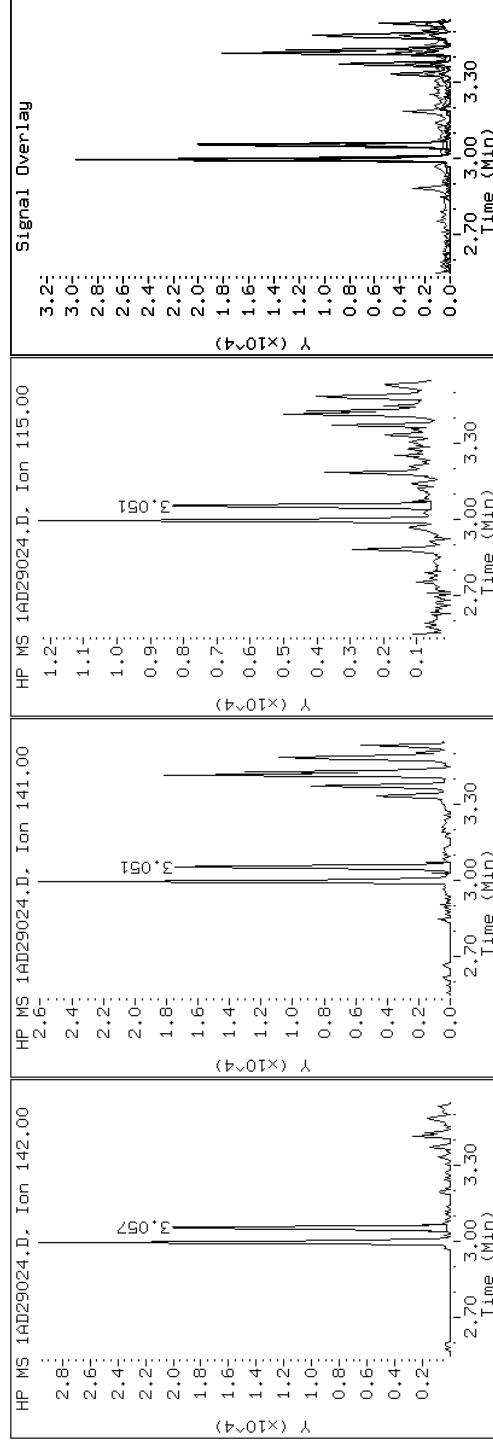
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

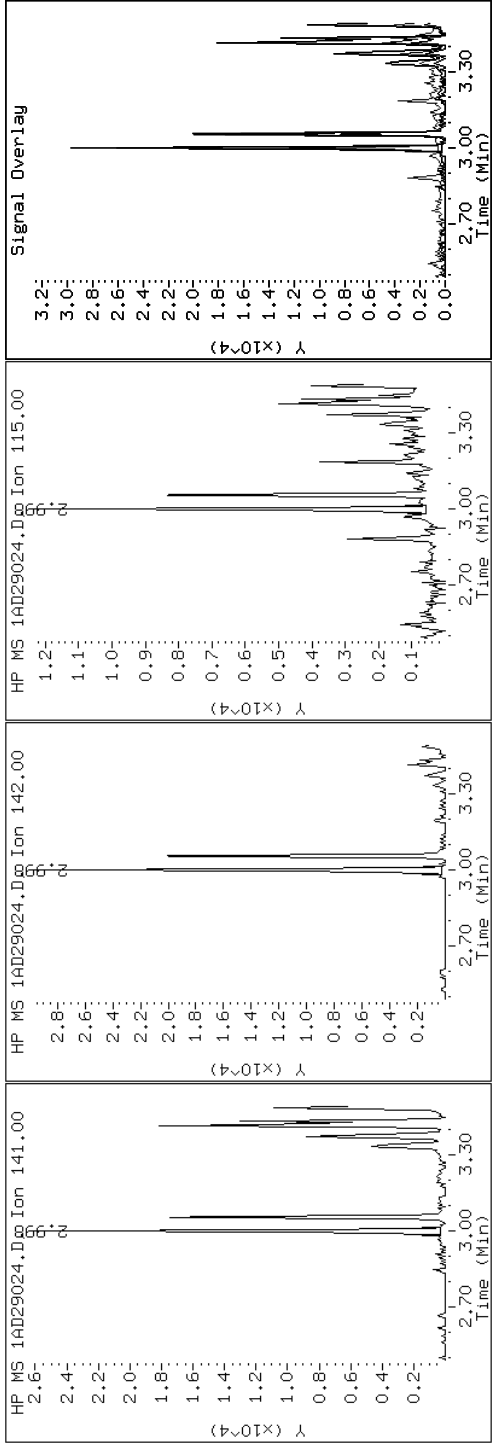
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

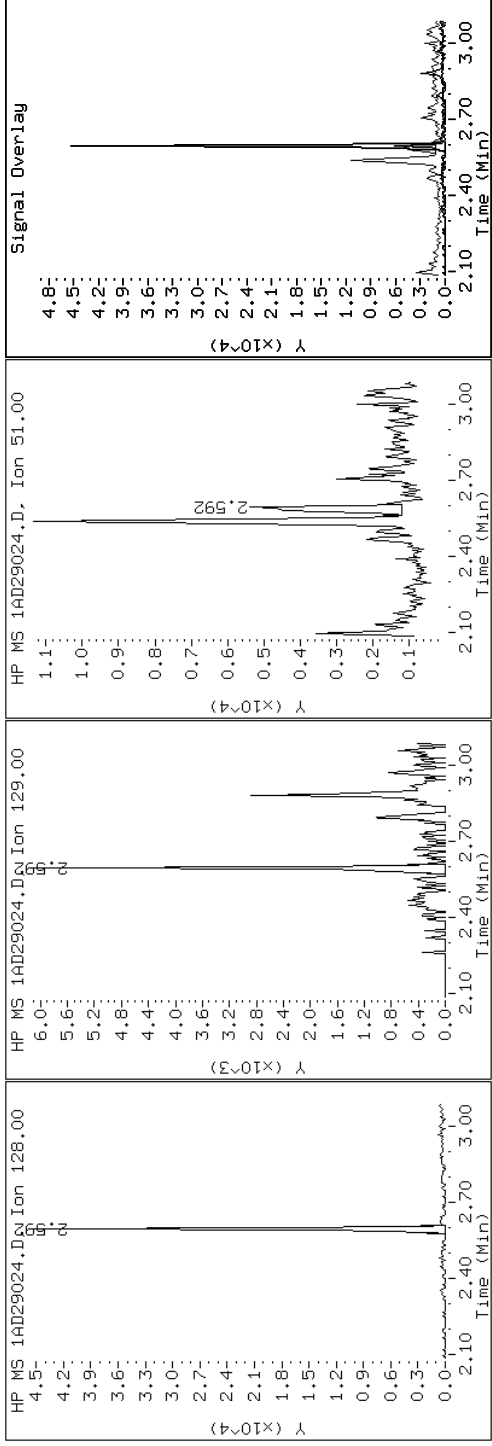
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

2 Naphthalene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

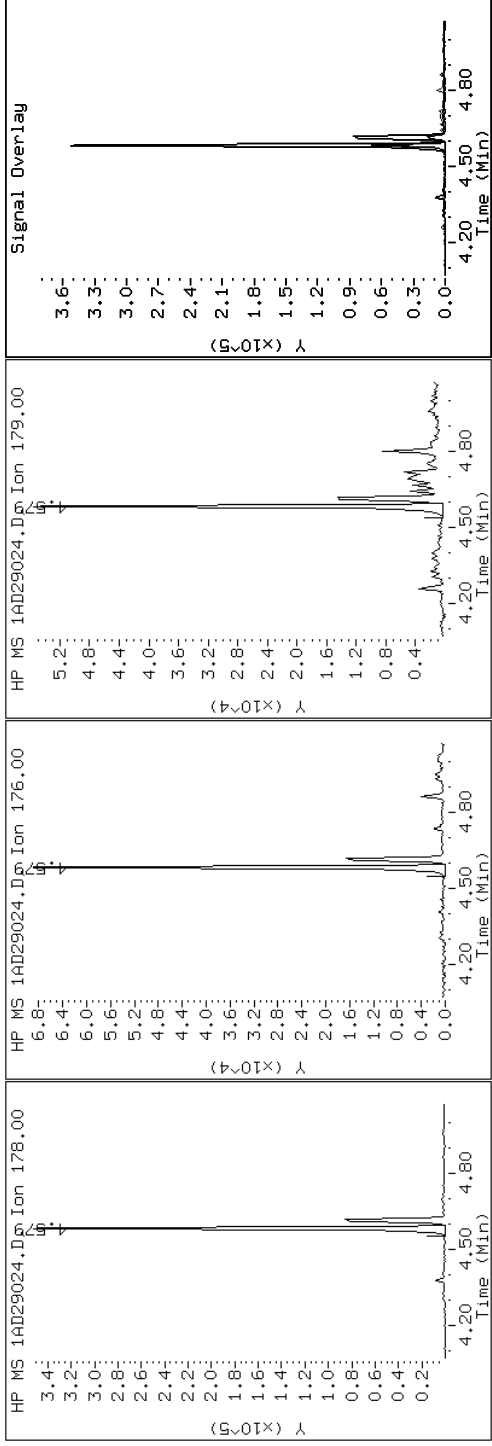
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

11 Phenanthrene



Data File: 1AD29024.D

Date: 29-APR-2013 17:55

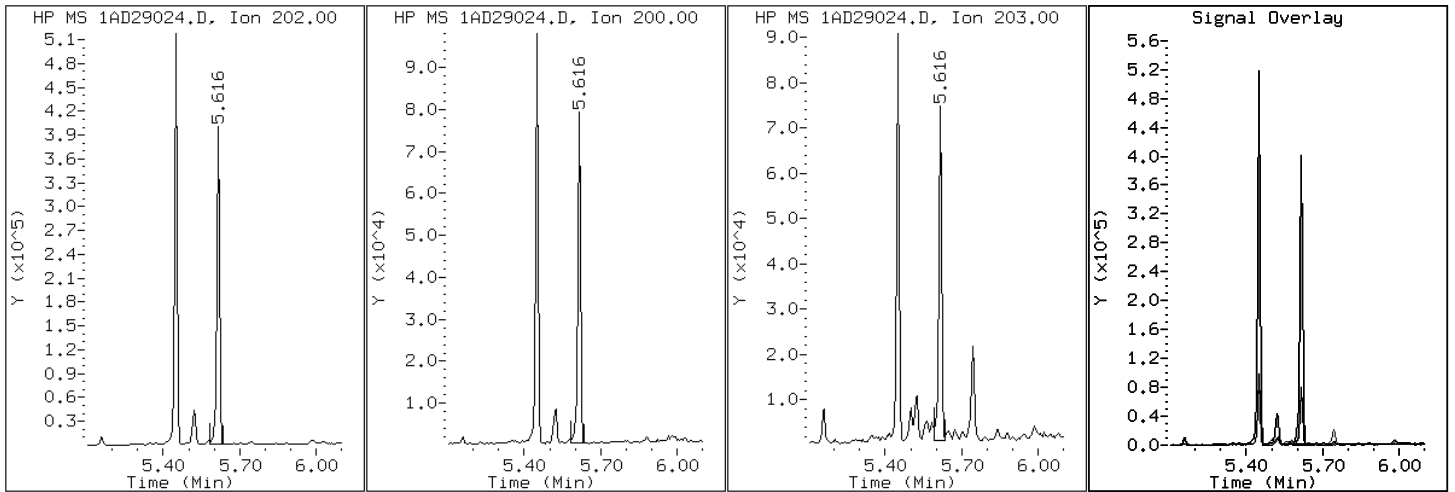
Client ID: CV1158B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-22-a

Operator: SCC

16 Pyrene

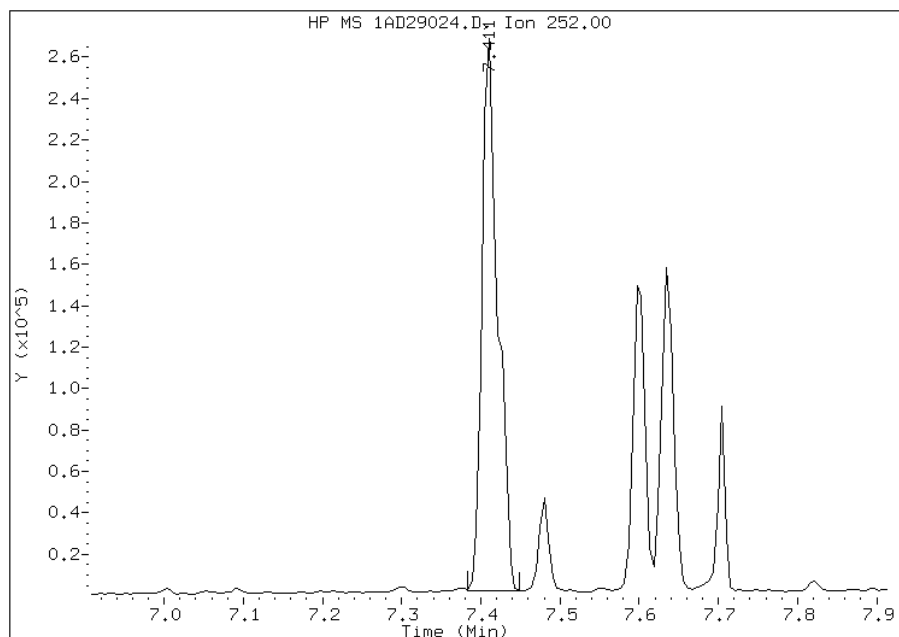


Manual Integration Report

Data File: 1AD29024.D
Inj. Date and Time: 29-APR-2013 17:55
Instrument ID: BSMA5973.i
Client ID: CV1158B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

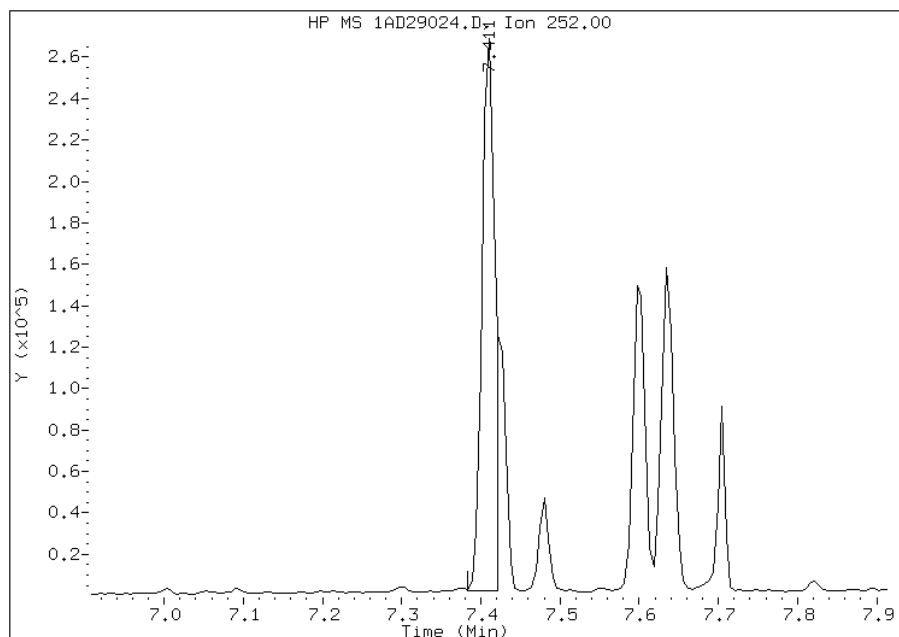
Processing Integration Results

RT: 7.41
Response: 364310
Amount: 7
Conc: 560



Manual Integration Results

RT: 7.41
Response: 300819
Amount: 6
Conc: 462



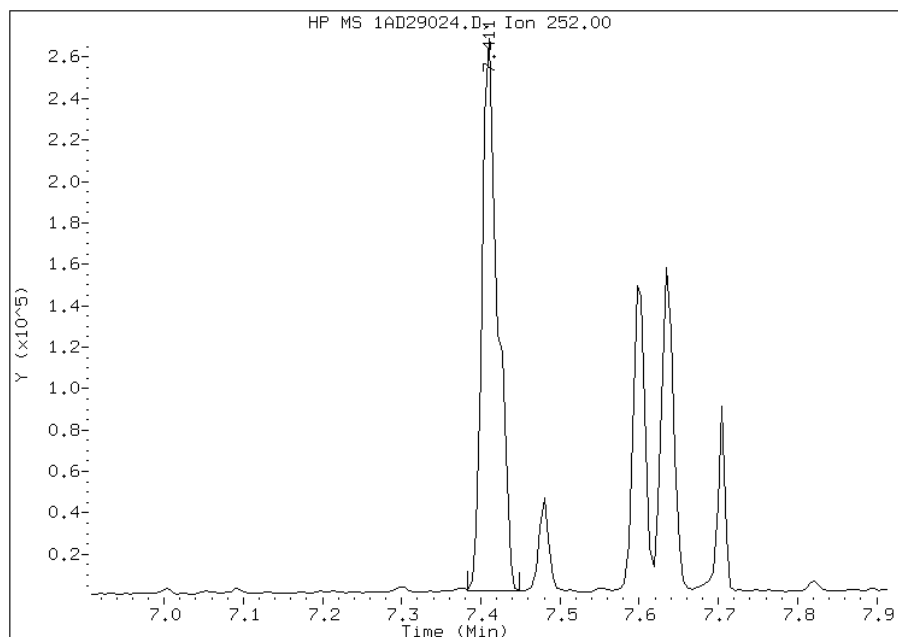
Manually Integrated By: cantins
Modification Date: 02-May-2013 13:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29024.D
Inj. Date and Time: 29-APR-2013 17:55
Instrument ID: BSMA5973.i
Client ID: CV1158B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

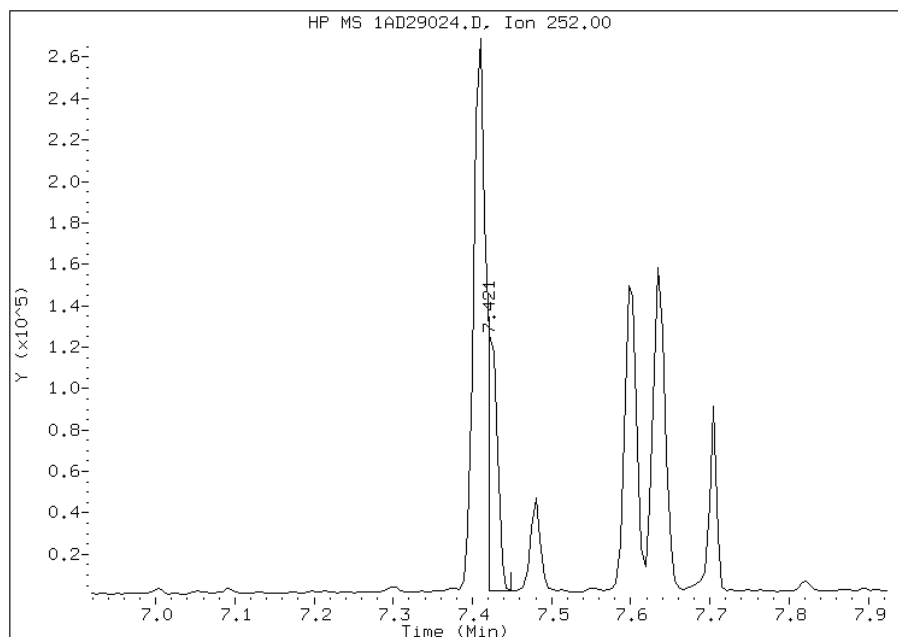
Processing Integration Results

RT: 7.41
Response: 364310
Amount: 6
Conc: 487



Manual Integration Results

RT: 7.42
Response: 102943
Amount: 2
Conc: 138



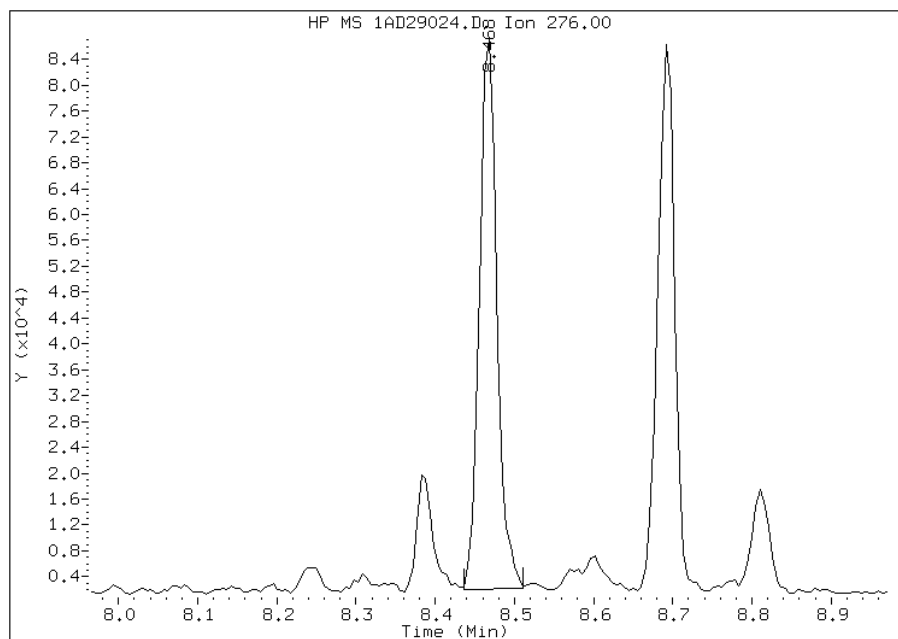
Manually Integrated By: cantins
Modification Date: 02-May-2013 13:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29024.D
Inj. Date and Time: 29-APR-2013 17:55
Instrument ID: BSMA5973.i
Client ID: CV1158B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

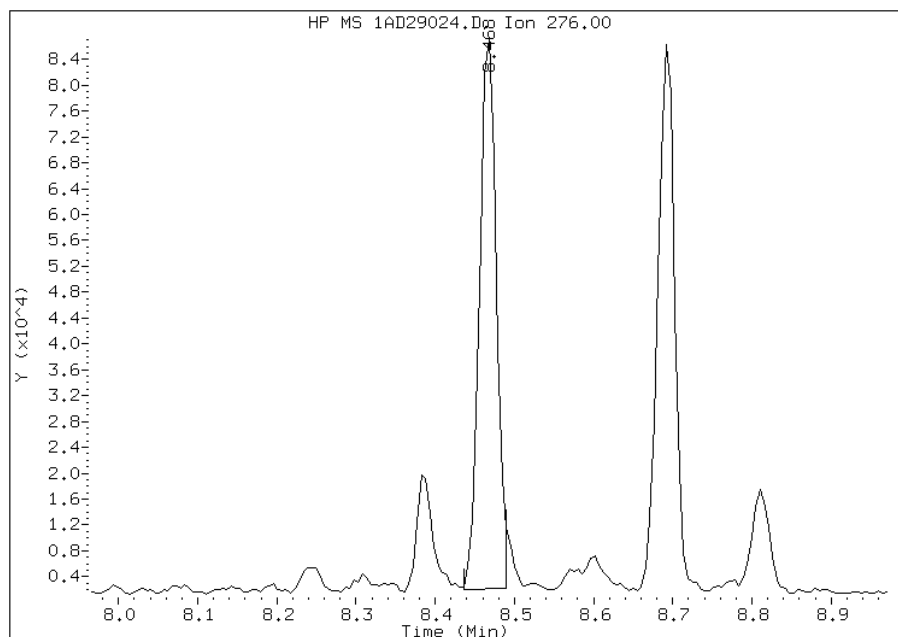
Processing Integration Results

RT: 8.47
Response: 128929
Amount: 3
Conc: 211



Manual Integration Results

RT: 8.47
Response: 125211
Amount: 2
Conc: 205



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:34
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV1235A-CS Lab Sample ID: 680-89695-23
 Matrix: Solid Lab File ID: 1AD29025.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 13:10
 Extract. Method: 3546 Date Extracted: 04/26/2013 07:28
 Sample wt/vol: 15.17(g) Date Analyzed: 04/29/2013 18:10
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136961 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	95
208-96-8	Acenaphthylene	46	J	190	24
120-12-7	Anthracene	54		40	20
56-55-3	Benzo[a]anthracene	110		38	19
50-32-8	Benzo[a]pyrene	100		50	25
205-99-2	Benzo[b]fluoranthene	180		58	29
191-24-2	Benzo[g,h,i]perylene	81	J	95	21
207-08-9	Benzo[k]fluoranthene	49		38	17
218-01-9	Chrysene	120		43	21
53-70-3	Dibenz(a,h)anthracene	20	J	95	20
206-44-0	Fluoranthene	190		95	19
86-73-7	Fluorene	95	U	95	20
193-39-5	Indeno[1,2,3-cd]pyrene	82	J	95	34
90-12-0	1-Methylnaphthalene	36	J	190	21
91-57-6	2-Methylnaphthalene	190	U	190	34
91-20-3	Naphthalene	24	J	190	21
85-01-8	Phenanthrene	110		38	19
129-00-0	Pyrene	120		95	18

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29025.D
 Lab Smp Id: 680-89695-A-23-A Client Smp ID: CV1235A-CS
 Inj Date : 29-APR-2013 18:10
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-23-a
 Misc Info : 680-89695-A-23-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
 Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 25
 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	15.170	Weight Extracted
M	17.035	% 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		2.581	2.572	(1.000)	1638864	40.0000	
* 6 Acenaphthene-d10	164		3.612	3.603	(1.000)	853864	40.0000	
* 10 Phenanthrene-d10	188		4.568	4.554	(1.000)	1375407	40.0000	
\$ 14 o-Terphenyl	230		4.862	4.859	(1.064)	29932	1.33050	422.8611
* 18 Chrysene-d12	240		6.593	6.574	(1.000)	1636621	40.0000	
* 23 Perylene-d12	264		7.688	7.663	(1.000)	1830545	40.0000	
2 Naphthalene	128		2.591	2.583	(1.004)	3148	0.07684	24.4213(Q)
4 1-Methylnaphthalene	142		3.056	3.048	(1.184)	2936	0.11282	35.8578
5 Acenaphthylene	152		3.521	3.513	(0.975)	7245	0.14518	46.1424(M)
11 Phenanthrene	178		4.579	4.570	(1.002)	13563	0.34041	108.1901
12 Anthracene	178		4.611	4.608	(1.009)	6980	0.16849	53.5480
15 Fluoranthene	202		5.449	5.436	(1.193)	28052	0.60957	193.7337
16 Pyrene	202		5.615	5.601	(0.852)	24540	0.39303	124.9123
17 Benzo(a)anthracene	228		6.587	6.563	(0.999)	18045	0.33762	107.3033

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.609	6.595 (1.002)		20848	0.38448	122.1968
20 Benzo(b)fluoranthene	252	7.399	7.380 (0.962)		32349	0.58209	184.9987(M)
21 Benzo(k)fluoranthene	252	7.415	7.407 (0.965)		9909	0.15508	49.2873(QM)
22 Benzo(a)pyrene	252	7.629	7.610 (0.992)		18010	0.32576	103.5329
24 Indeno(1,2,3-cd)pyrene	276	8.446	8.427 (1.099)		13406	0.25681	81.6199(M)
25 Dibenzo(a,h)anthracene	278	8.473	8.454 (1.102)		3122	0.06428	20.4285(Q)
26 Benzo(g,h,i)perylene	276	8.671	8.646 (1.128)		14887	0.25481	80.9842

QC Flag Legend

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

Data File: 1AD29025.D

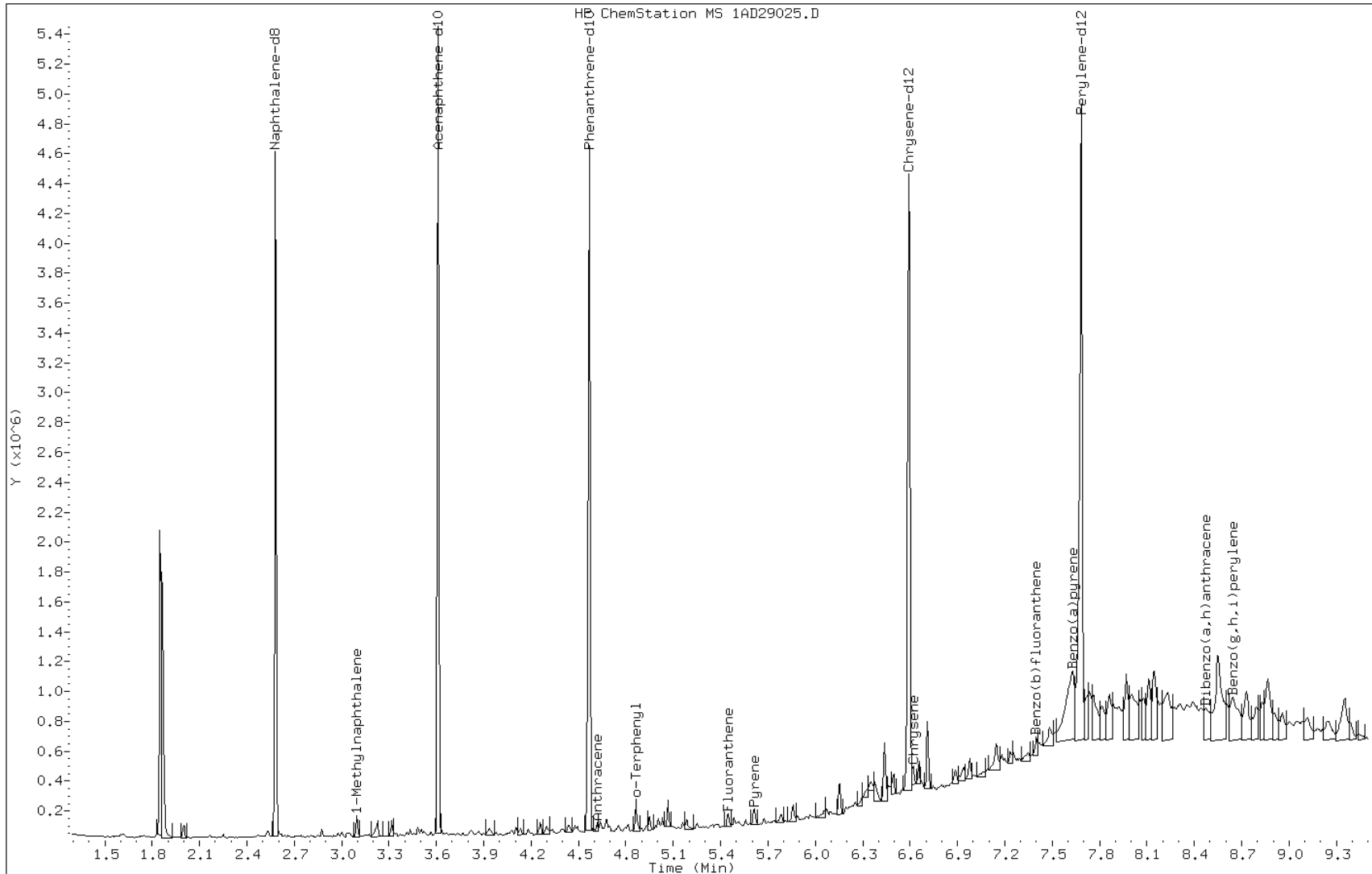
Date: 29-APR-2013 18:10

Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

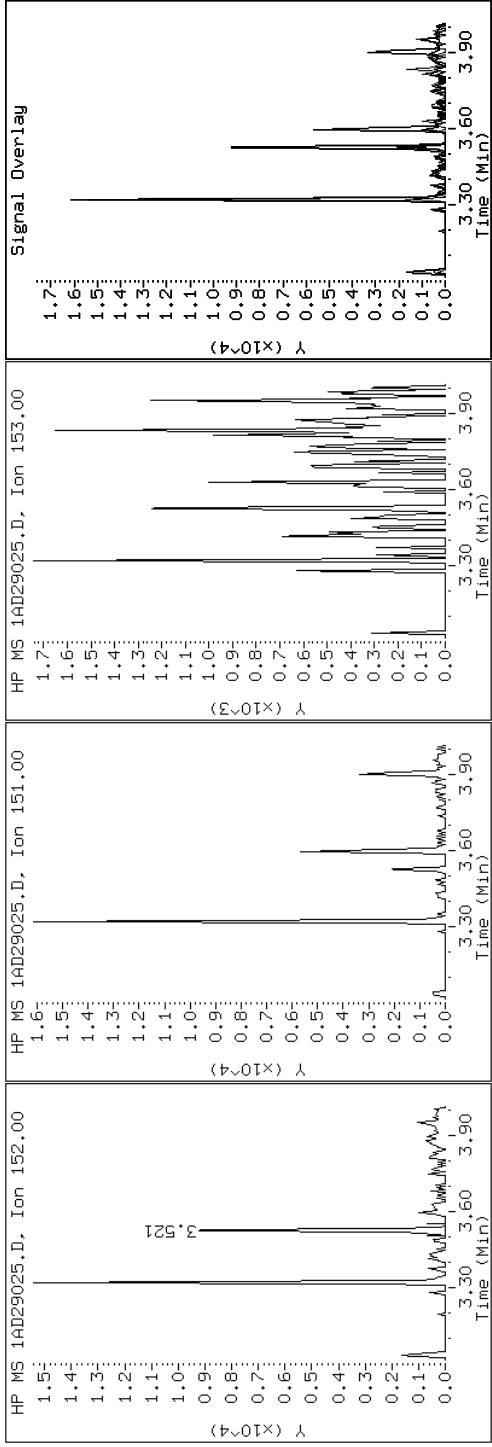
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

5 Acenaphthylene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

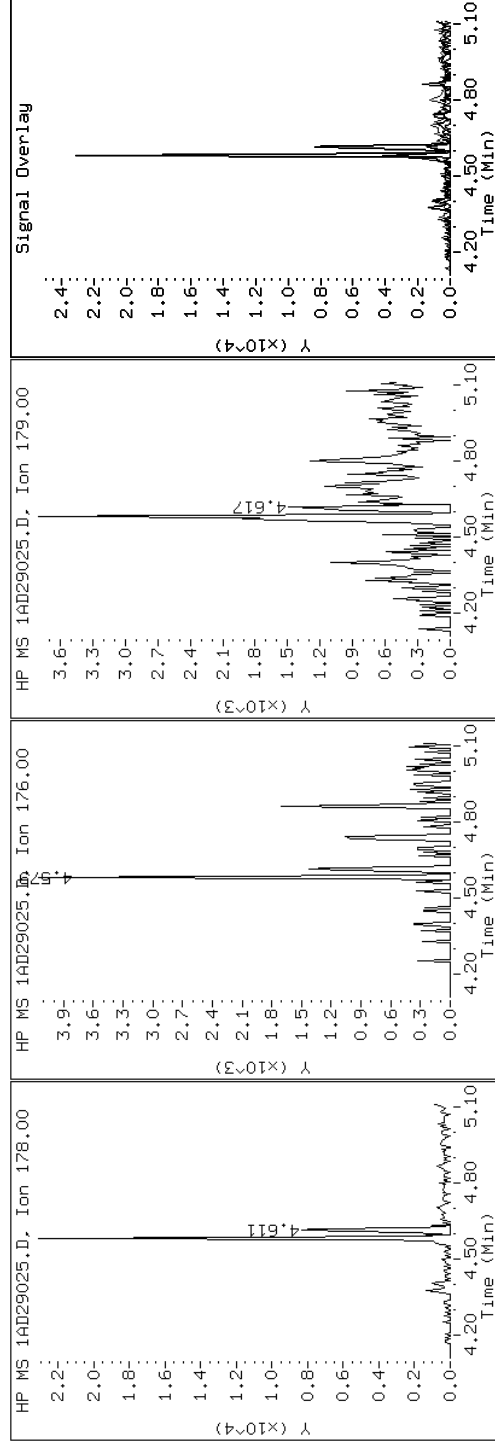
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

12 Anthracene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

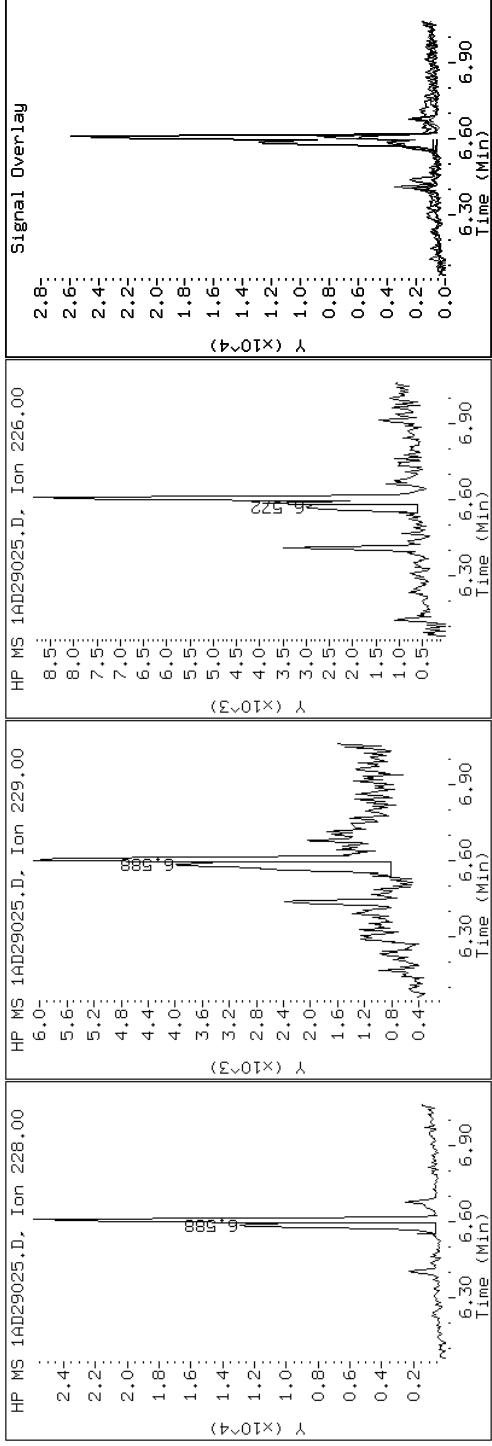
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

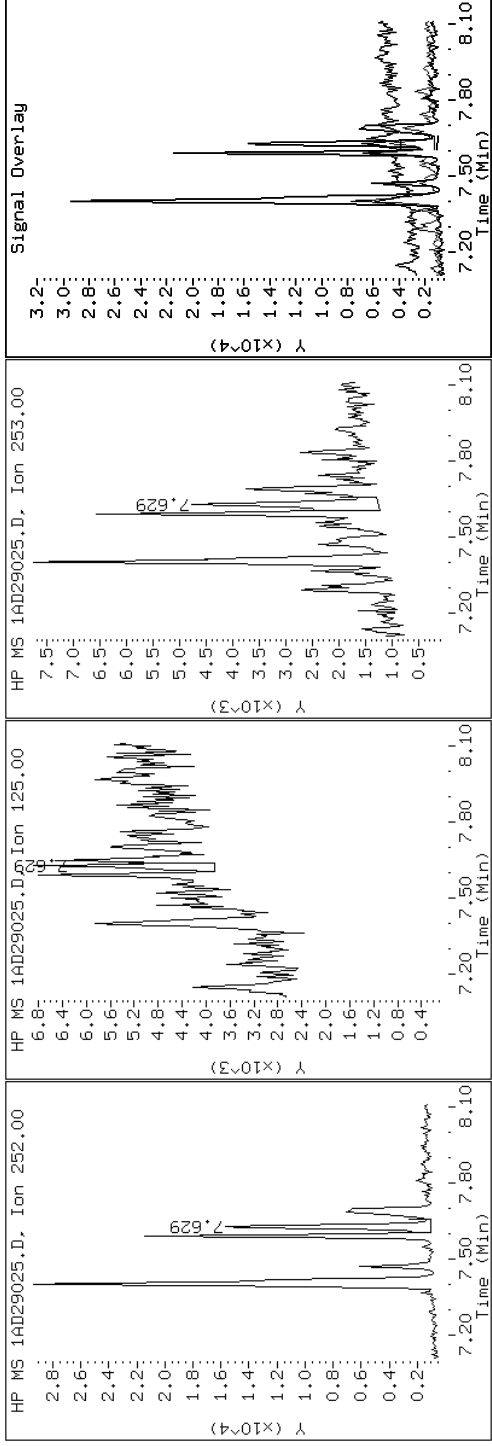
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

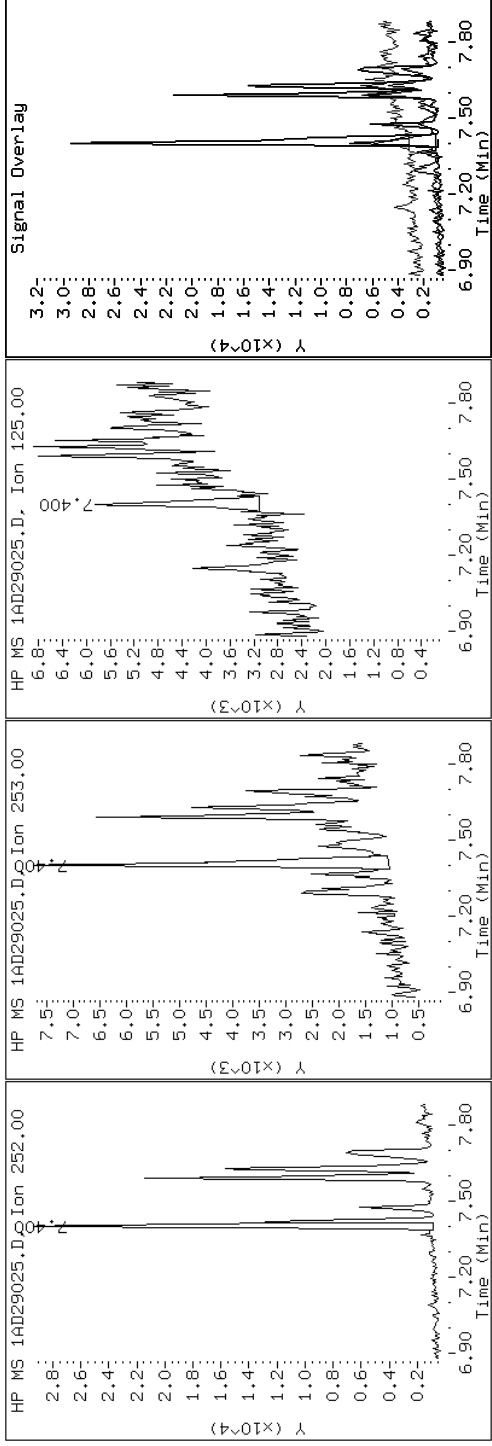
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

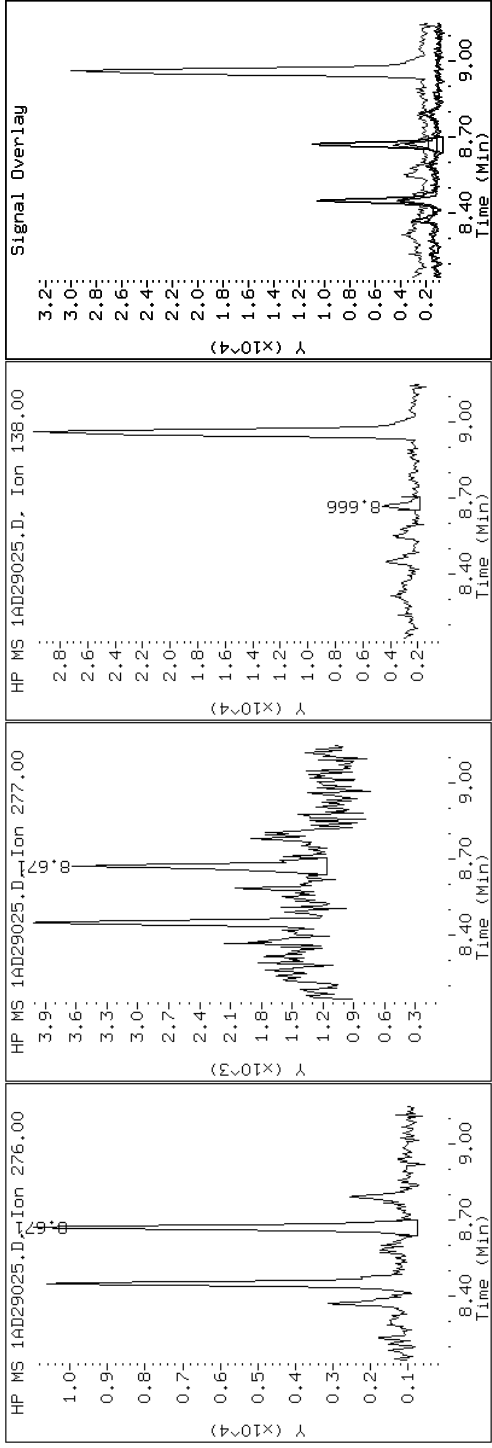
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

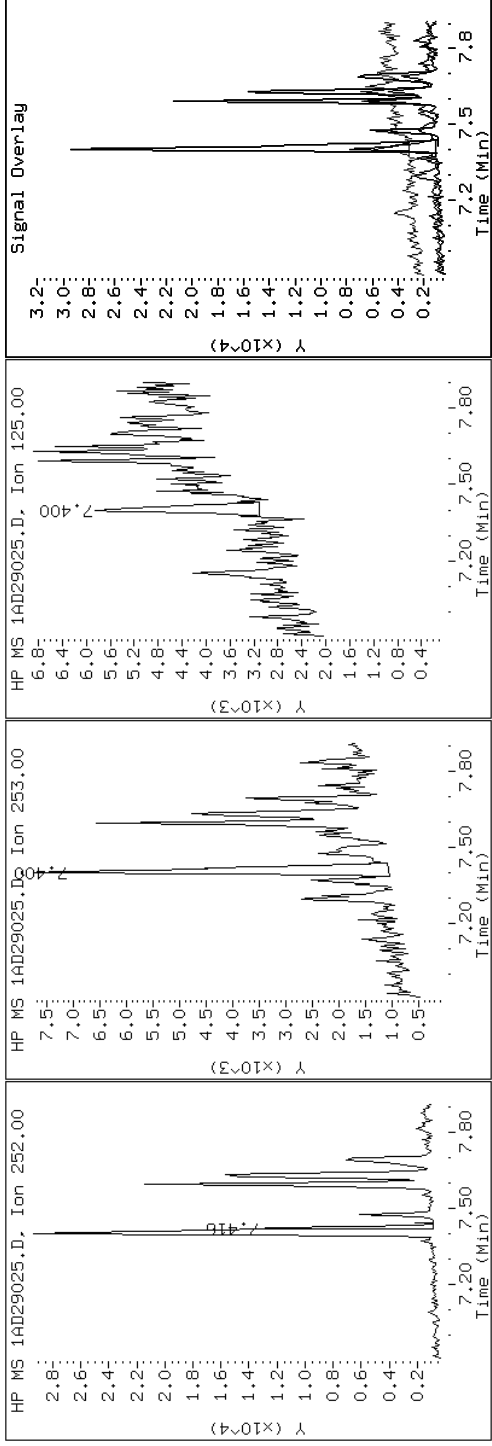
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

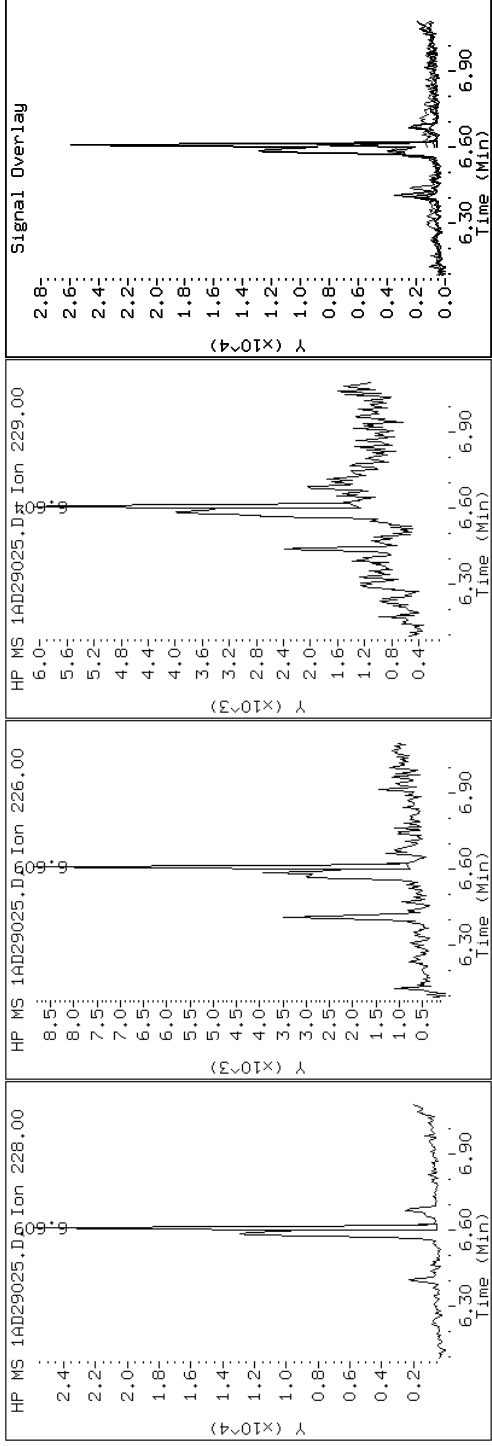
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

19 Chrysene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

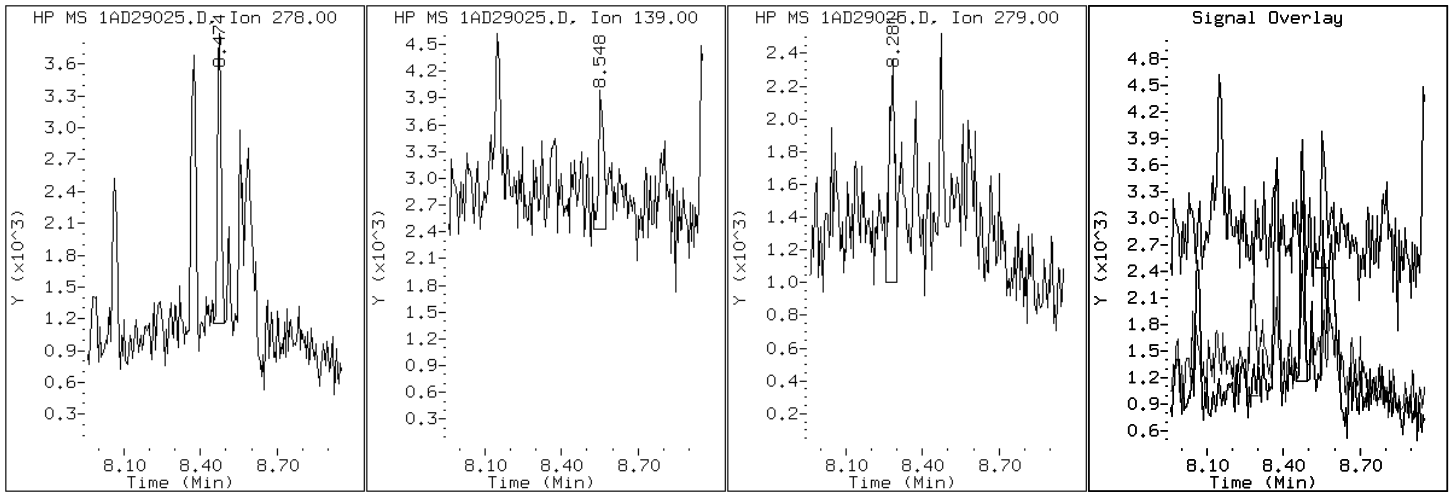
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

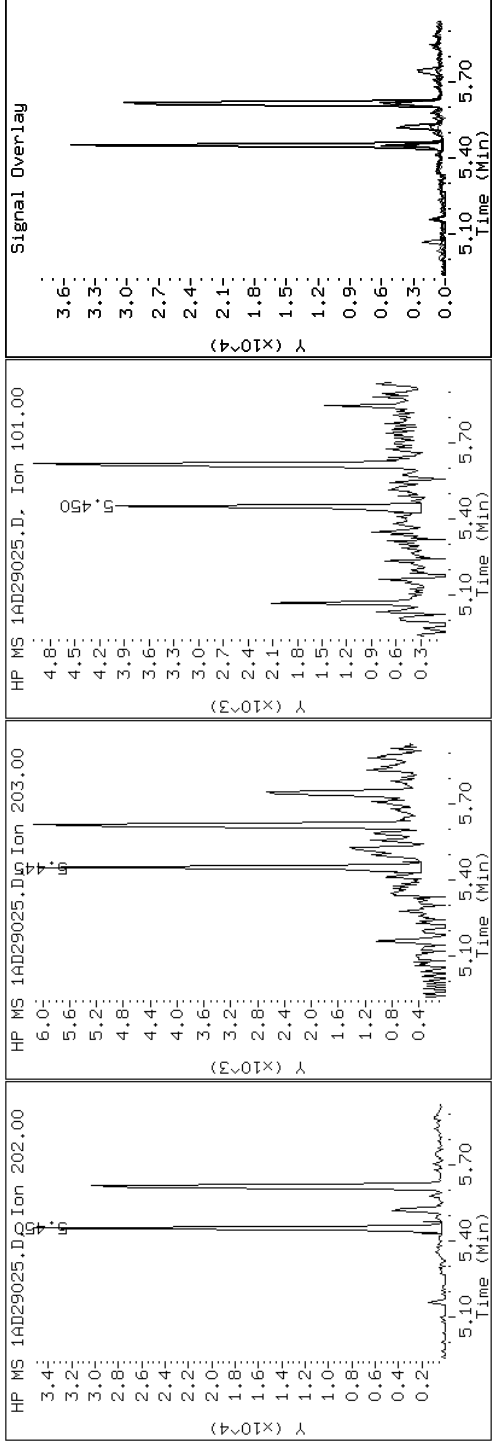
Client ID: CVI235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

15 Fluoranthene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

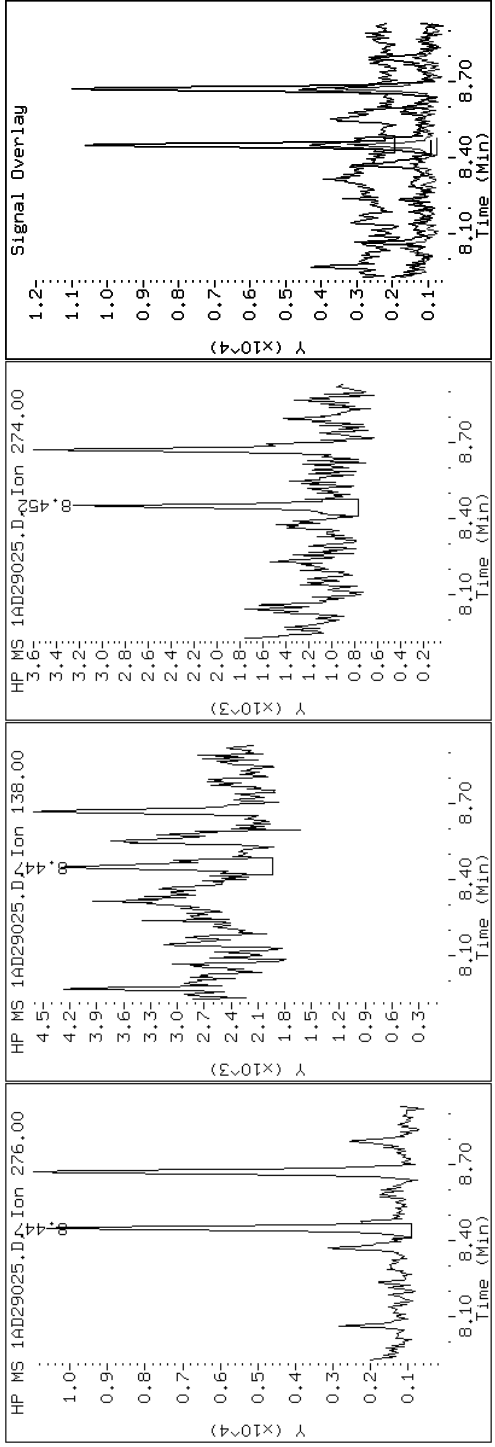
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

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



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

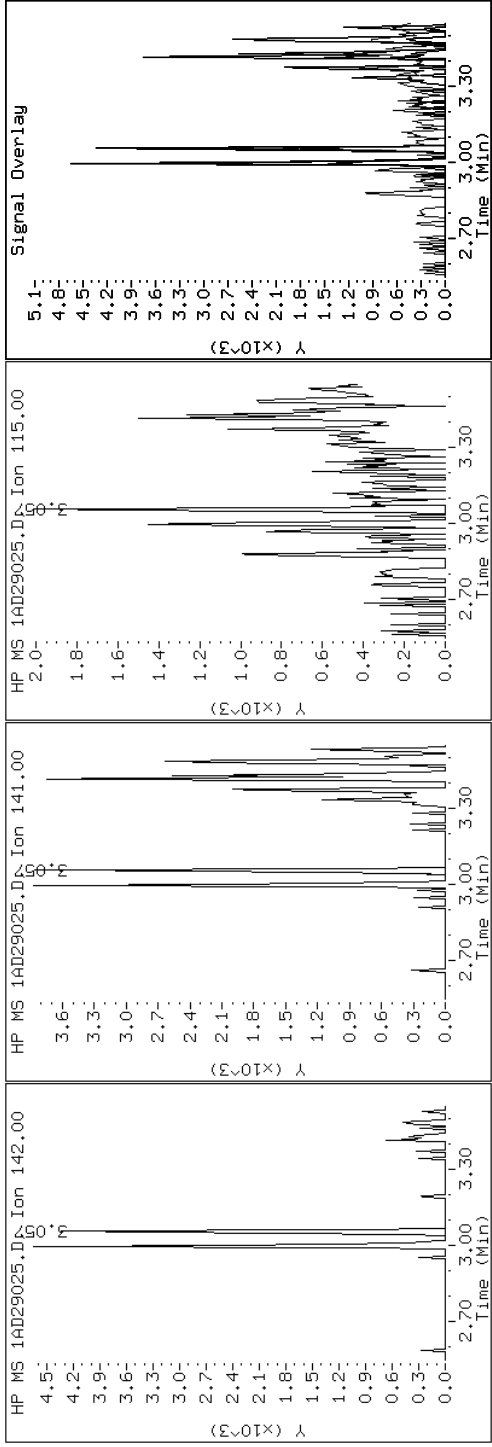
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

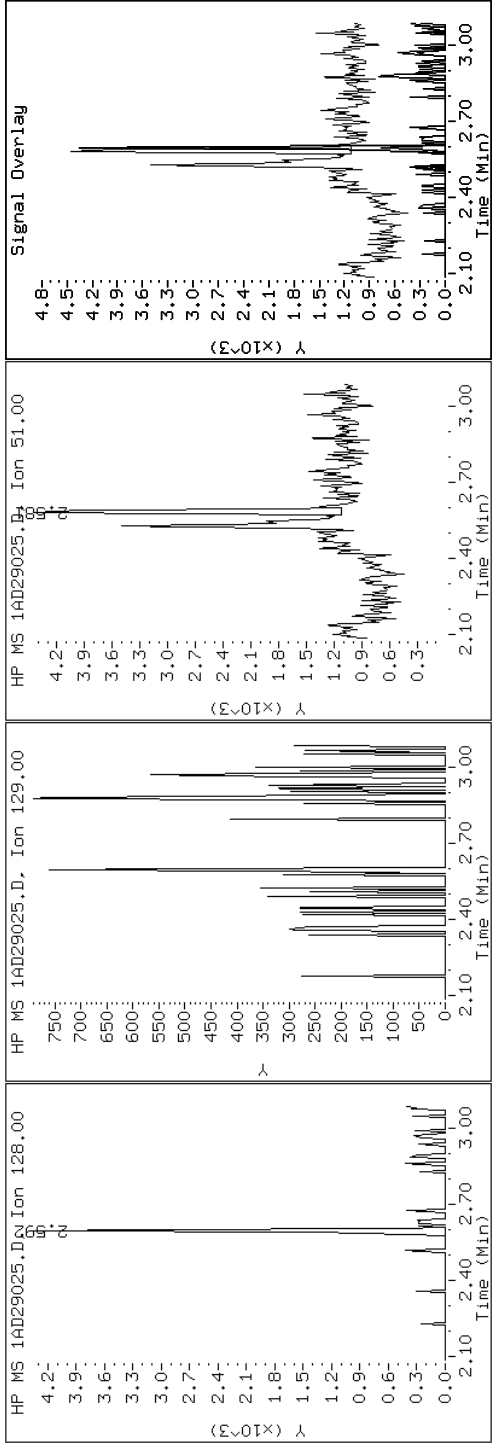
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

2 Naphthalene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

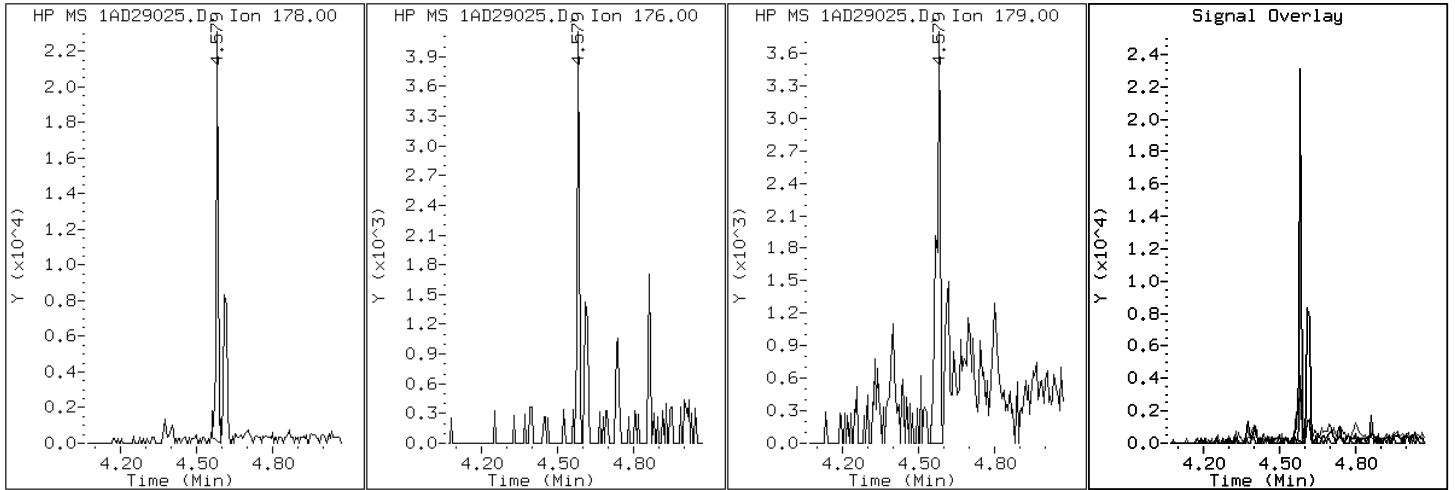
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

11 Phenanthrene



Data File: 1AD29025.D

Date: 29-APR-2013 18:10

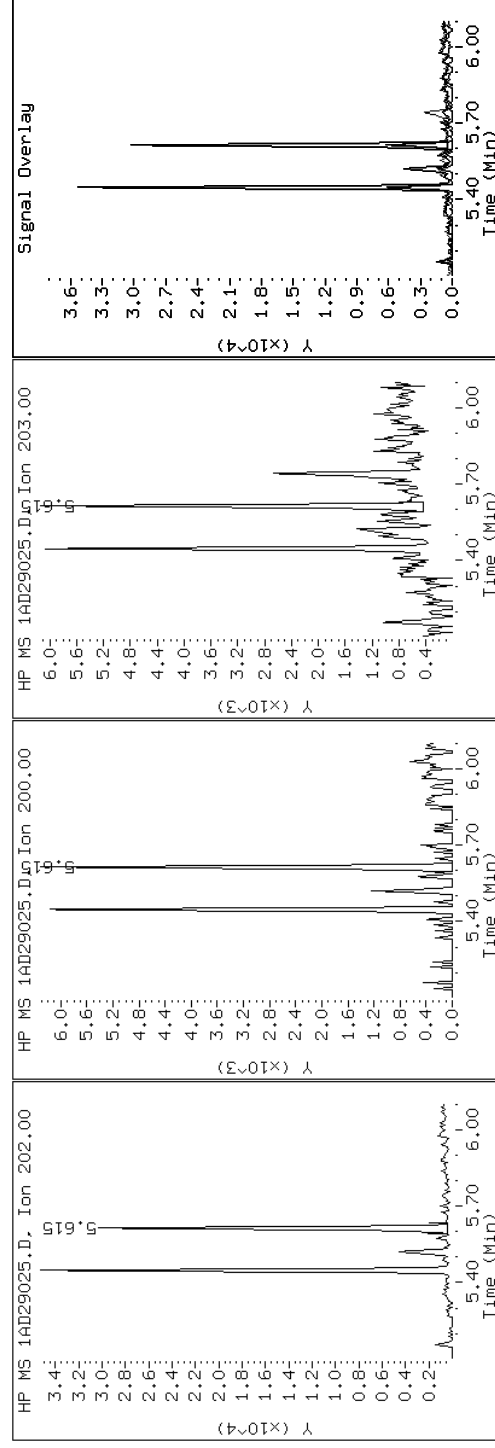
Client ID: CV1235A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-23-a

Operator: SCC

16 Pyrene



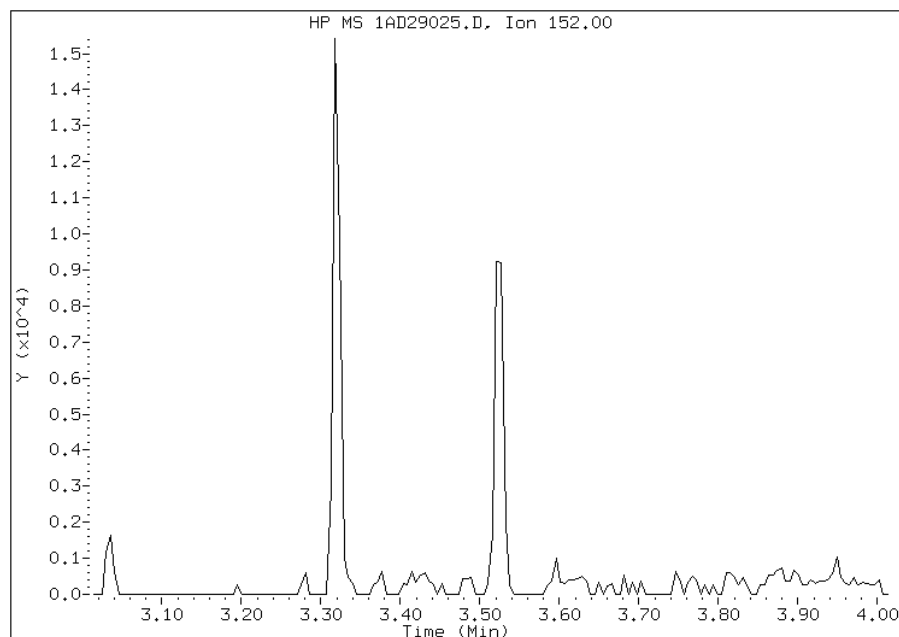
Manual Integration Report

Data File: 1AD29025.D
Inj. Date and Time: 29-APR-2013 18:10
Instrument ID: BSMA5973.i
Client ID: CV1235A-CS
Compound: 5 Acenaphthylene
CAS #: 208-96-8
Report Date: 05/02/2013

Processing Integration Results

Not Detected

Expected RT: 3.51



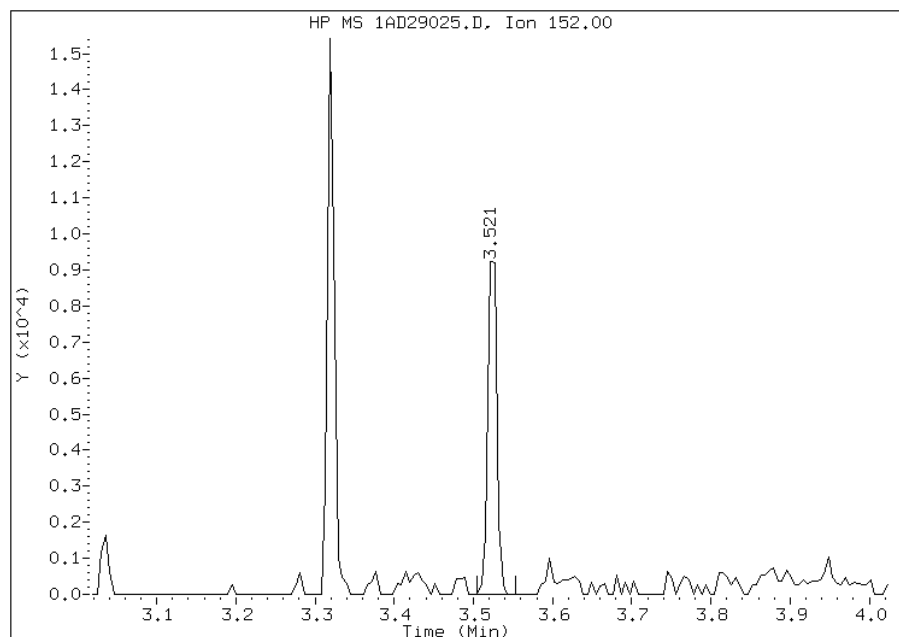
Manual Integration Results

RT: 3.52

Response: 7245

Amount: 0

Conc: 46



Manually Integrated By: cantins

Modification Date: 02-May-2013 13:34

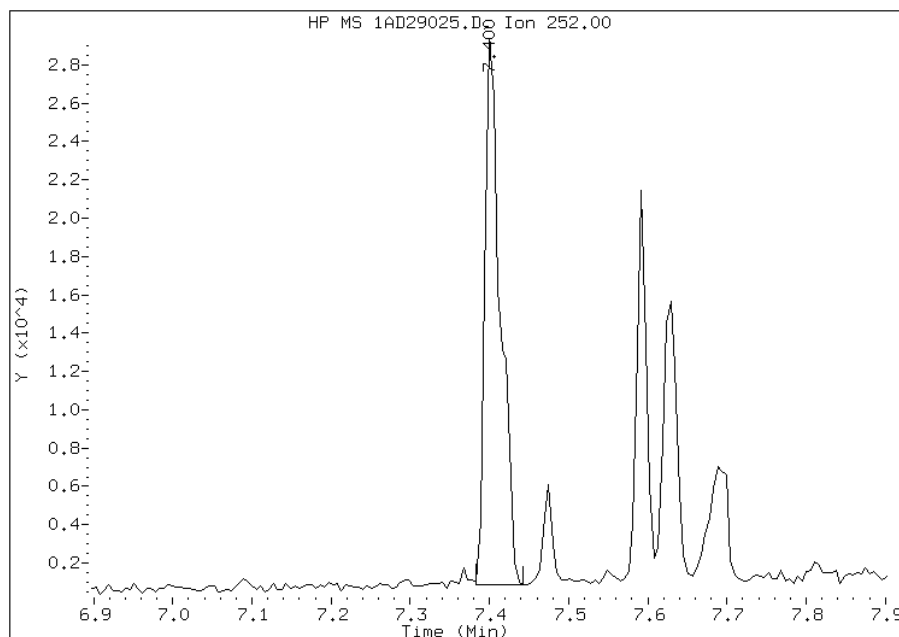
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 1AD29025.D
Inj. Date and Time: 29-APR-2013 18:10
Instrument ID: BSMA5973.i
Client ID: CV1235A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

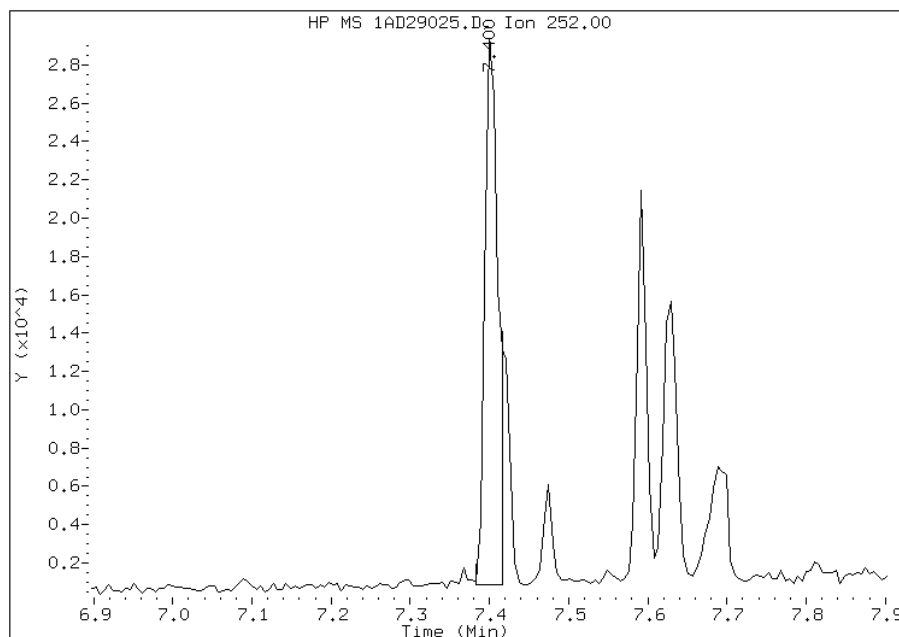
Processing Integration Results

RT: 7.40
Response: 38333
Amount: 1
Conc: 219



Manual Integration Results

RT: 7.40
Response: 32349
Amount: 1
Conc: 185



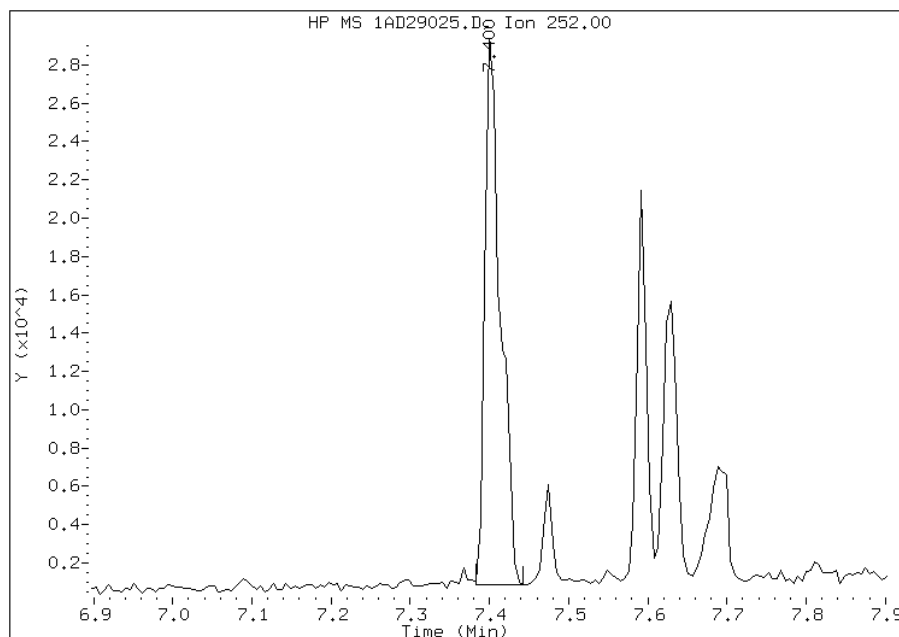
Manually Integrated By: cantins
Modification Date: 02-May-2013 13:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29025.D
Inj. Date and Time: 29-APR-2013 18:10
Instrument ID: BSMA5973.i
Client ID: CV1235A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

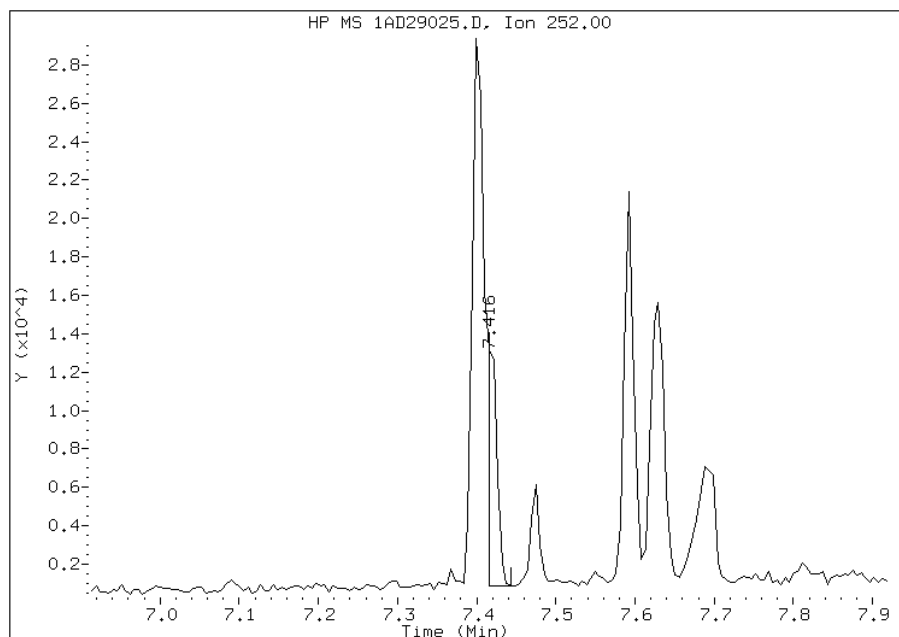
Processing Integration Results

RT: 7.40
Response: 38333
Amount: 1
Conc: 191



Manual Integration Results

RT: 7.42
Response: 9909
Amount: 0
Conc: 49



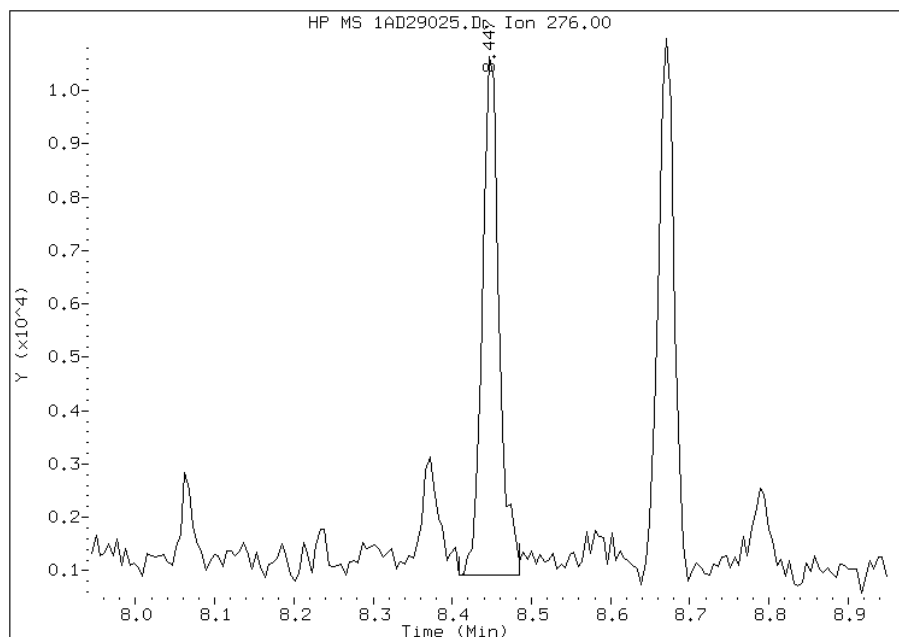
Manually Integrated By: cantins
Modification Date: 02-May-2013 13:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29025.D
Inj. Date and Time: 29-APR-2013 18:10
Instrument ID: BSMA5973.i
Client ID: CV1235A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

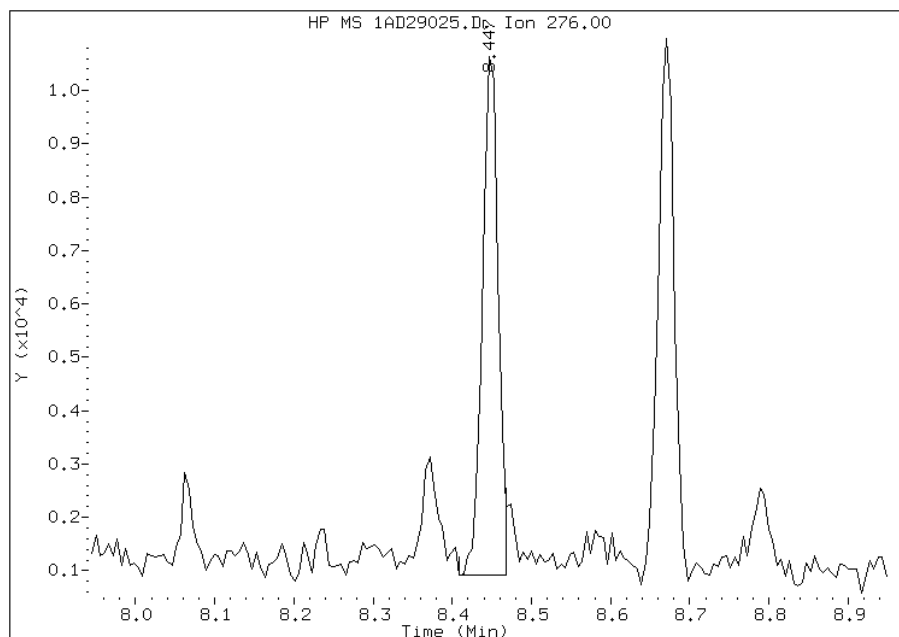
Processing Integration Results

RT: 8.45
Response: 14175
Amount: 0
Conc: 86



Manual Integration Results

RT: 8.45
Response: 13406
Amount: 0
Conc: 82



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:36
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV1235B-CS Lab Sample ID: 680-89695-24
 Matrix: Solid Lab File ID: 1AD29026.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 13:20
 Extract. Method: 3546 Date Extracted: 04/26/2013 07:28
 Sample wt/vol: 15.02(g) Date Analyzed: 04/29/2013 18:25
 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.: 136961 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	25
208-96-8	Acenaphthylene	53		50	6.2
120-12-7	Anthracene	84		10	5.2
56-55-3	Benzo[a]anthracene	130		10	4.9
50-32-8	Benzo[a]pyrene	110		13	6.5
205-99-2	Benzo[b]fluoranthene	210		15	7.6
191-24-2	Benzo[g,h,i]perylene	75		25	5.5
207-08-9	Benzo[k]fluoranthene	74		10	4.5
218-01-9	Chrysene	160		11	5.6
53-70-3	Dibenz(a,h)anthracene	30		25	5.1
206-44-0	Fluoranthene	250		25	5.0
86-73-7	Fluorene	17	J	25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	80		25	8.9
90-12-0	1-Methylnaphthalene	170		50	5.5
91-57-6	2-Methylnaphthalene	160		50	8.9
91-20-3	Naphthalene	110		50	5.5
85-01-8	Phenanthrene	240		10	4.9
129-00-0	Pyrene	170		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	21	X	30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29026.D
 Lab Smp Id: 680-89695-A-24-A Client Smp ID: CV1235B-CS
 Inj Date : 29-APR-2013 18:25
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-24-a
 Misc Info : 680-89695-A-24-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
 Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.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	15.020	Weight Extracted
M	20.000	% 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		2.581	2.572	(1.000)	1663992	40.0000		
* 6 Acenaphthene-d10	164		3.612	3.603	(1.000)	830247	40.0000		
* 10 Phenanthrene-d10	188		4.568	4.554	(1.000)	1331289	40.0000		
\$ 14 o-Terphenyl	230		4.867	4.859	(1.065)	46528	2.13675	177.8253(R)	
* 18 Chrysene-d12	240		6.598	6.574	(1.000)	1580375	40.0000		
* 23 Perylene-d12	264		7.688	7.663	(1.000)	1808997	40.0000		
2 Naphthalene	128		2.592	2.583	(1.004)	53902	1.29583	107.8423	
3 2-Methylnaphthalene	141		2.998	2.989	(1.161)	47125	1.97605	164.4512	
4 1-Methylnaphthalene	142		3.056	3.048	(1.184)	52453	1.98522	165.2146	
5 Acenaphthylene	152		3.521	3.513	(0.975)	30965	0.63817	53.1096	
9 Fluorene	166		3.943	3.935	(1.092)	6320	0.20643	17.1799(Q)	
11 Phenanthrene	178		4.579	4.570	(1.002)	111048	2.87952	239.6403	
12 Anthracene	178		4.616	4.608	(1.011)	40356	1.00641	83.7555	
13 Carbazole	167		4.750	4.736	(1.040)	19226	0.49701	41.3623	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.450	5.436 (1.193)		132915	2.98396	248.3320
16 Pyrene	202	5.615	5.601 (0.851)		124972	2.07276	172.5003
17 Benzo(a)anthracene	228	6.587	6.563 (0.998)		81413	1.57745	131.2793
19 Chrysene	228	6.609	6.595 (1.002)		101702	1.94237	161.6484
20 Benzo(b)fluoranthene	252	7.405	7.380 (0.963)		139791	2.54535	211.8303(M)
21 Benzo(k)fluoranthene	252	7.415	7.407 (0.965)		56361	0.89258	74.2822(QM)
22 Benzo(a)pyrene	252	7.629	7.610 (0.992)		72706	1.33075	110.7480
24 Indeno(1,2,3-cd)pyrene	276	8.452	8.427 (1.099)		49517	0.95987	79.8826(M)
25 Dibenzo(a,h)anthracene	278	8.479	8.454 (1.103)		17207	0.35848	29.8339
26 Benzo(g,h,i)perylene	276	8.676	8.646 (1.129)		51977	0.90025	74.9213

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1AD29026.D

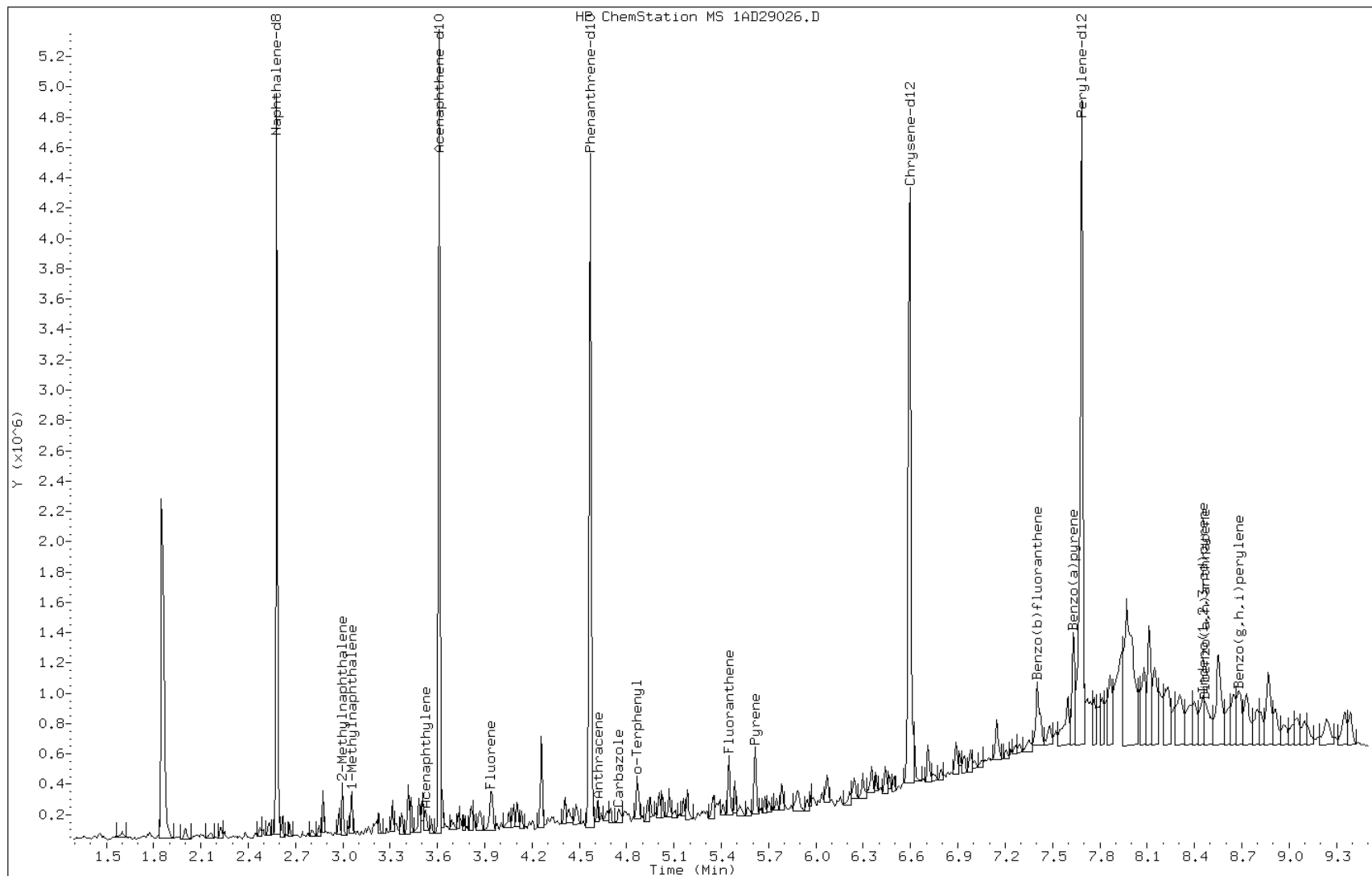
Date: 29-APR-2013 18:25

Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

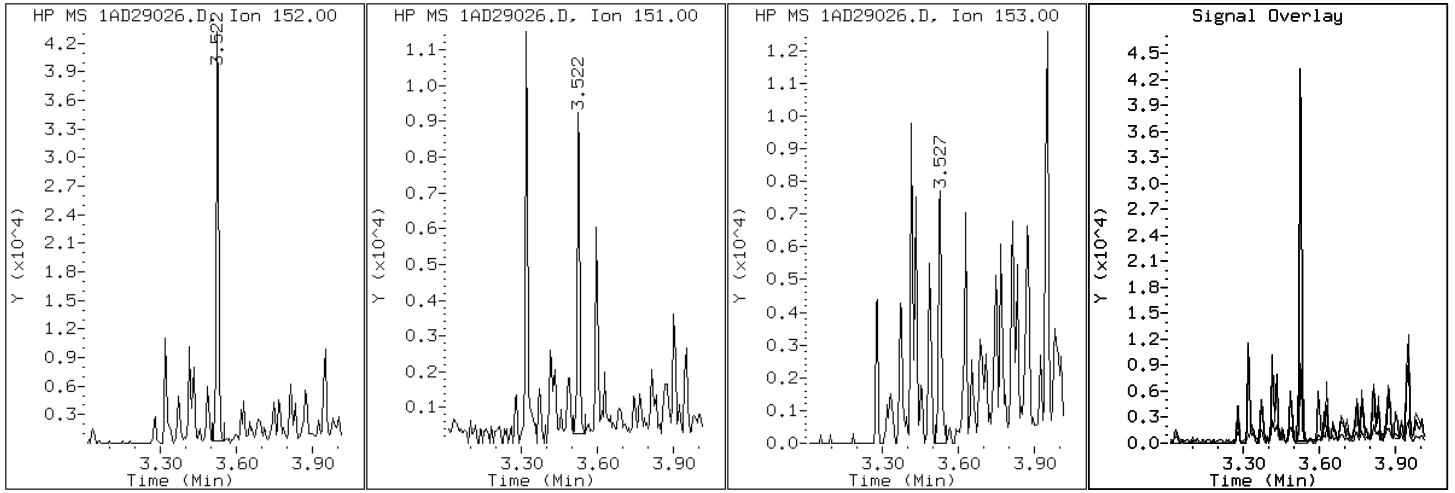
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

5 Acenaphthylene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

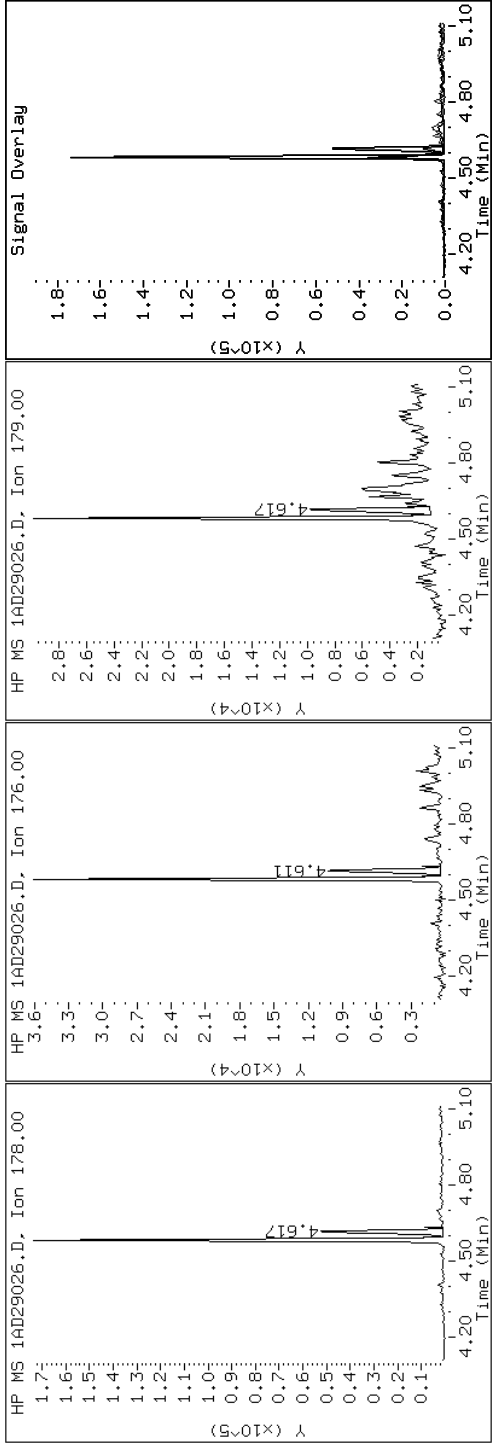
Client ID: CVI235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

12 Anthracene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

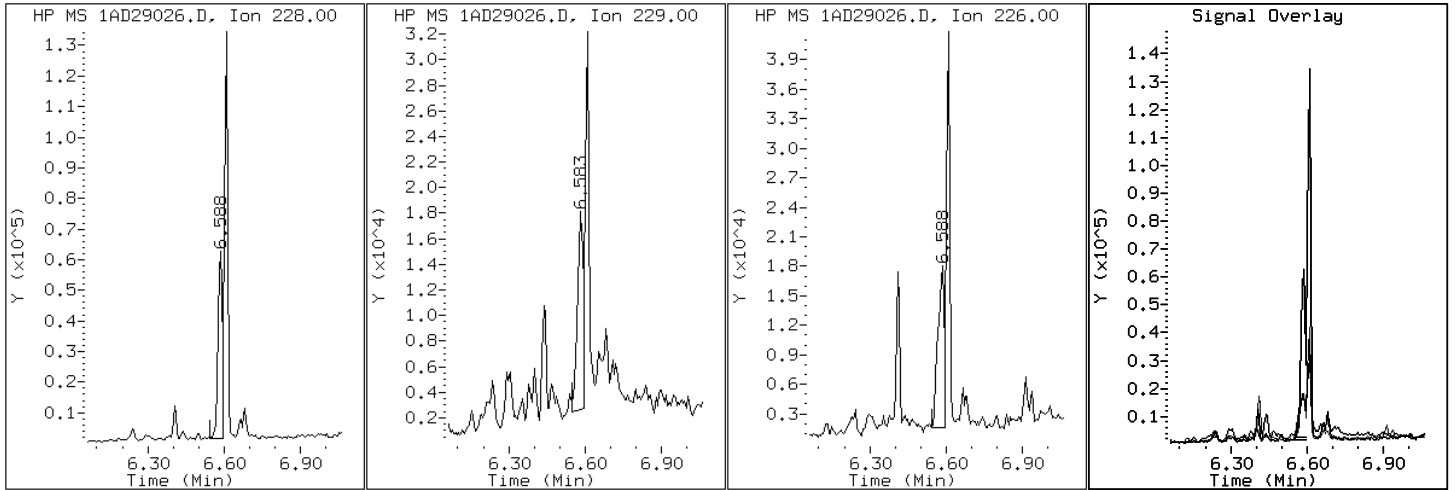
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

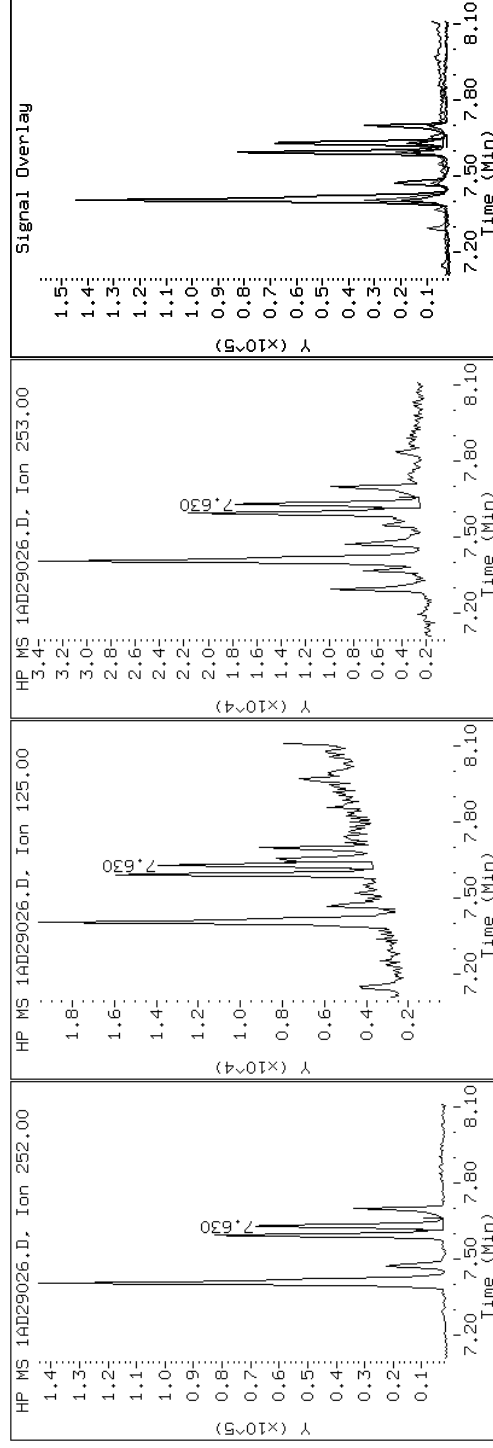
Client ID: CVI235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

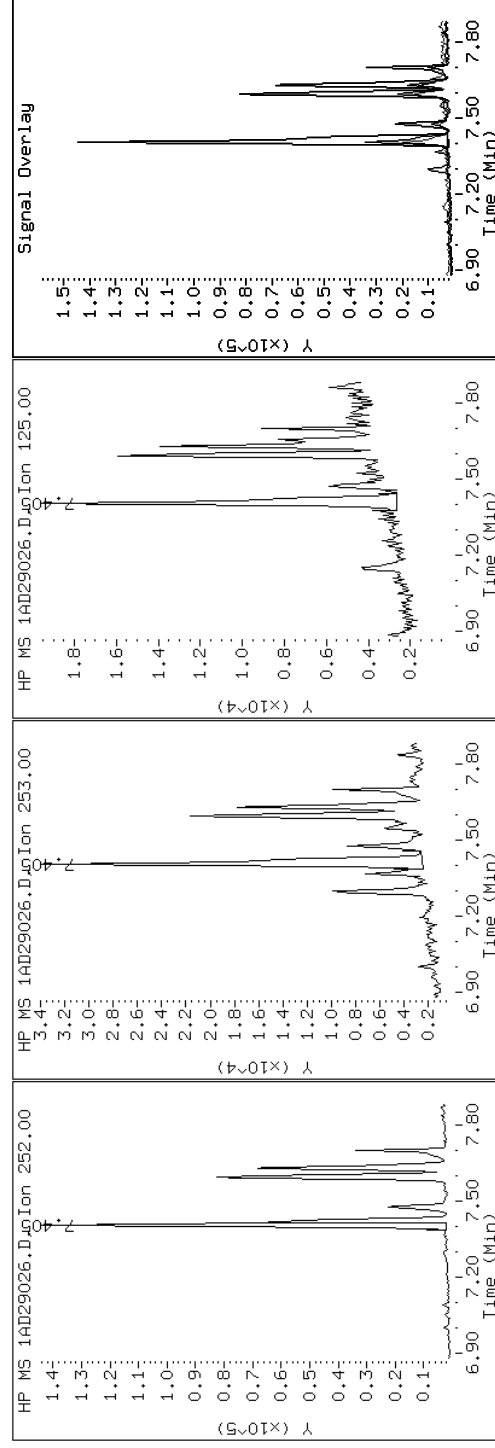
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

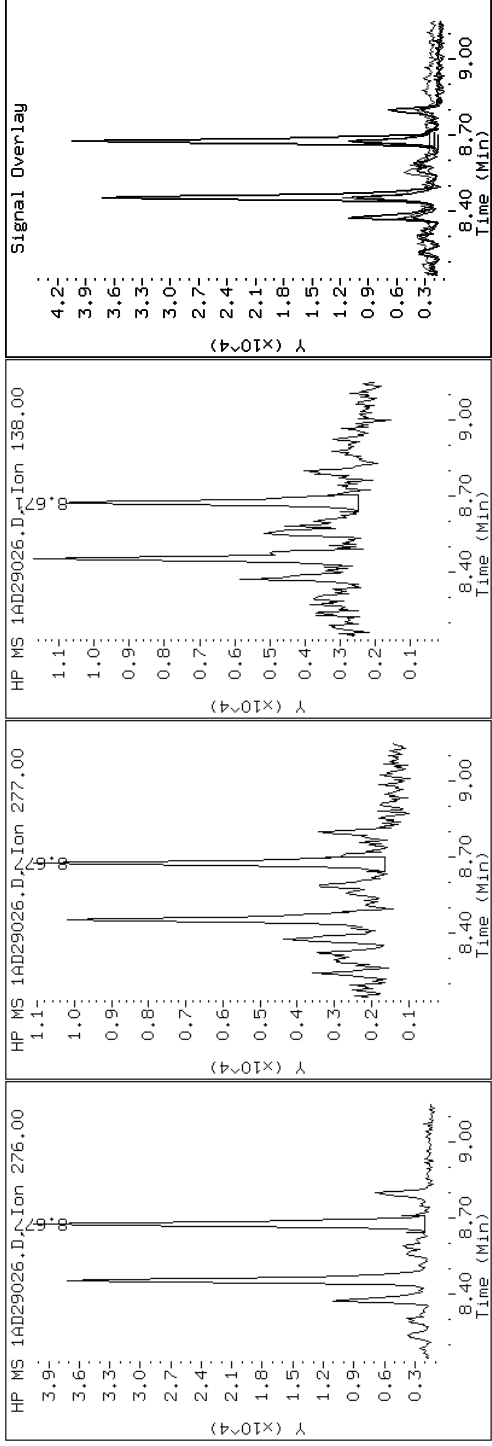
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

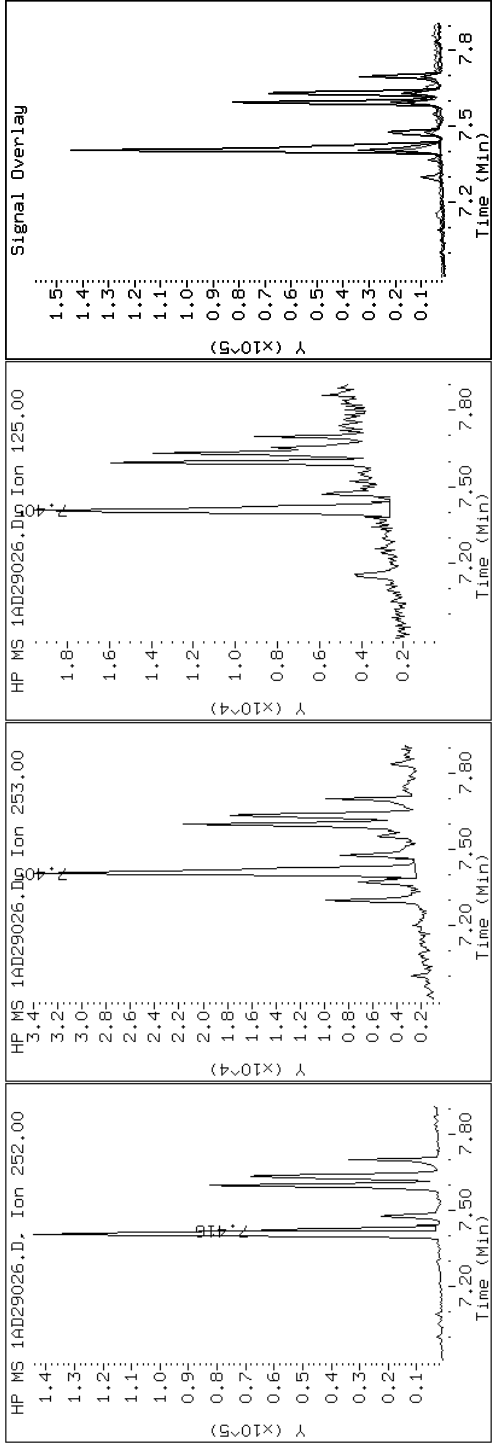
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

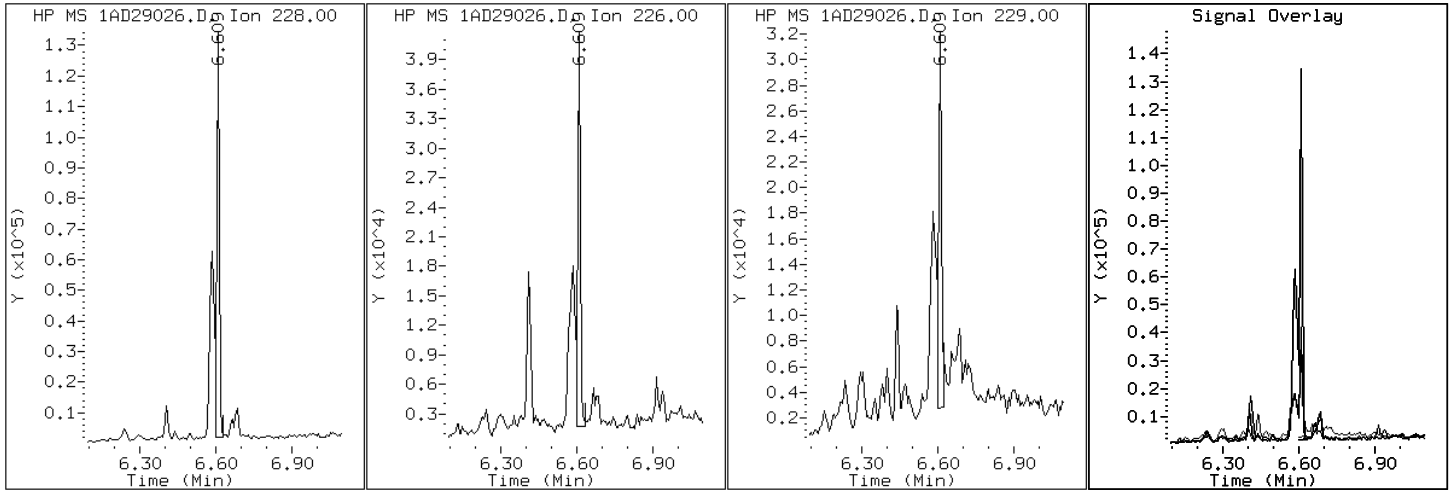
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

19 Chrysene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

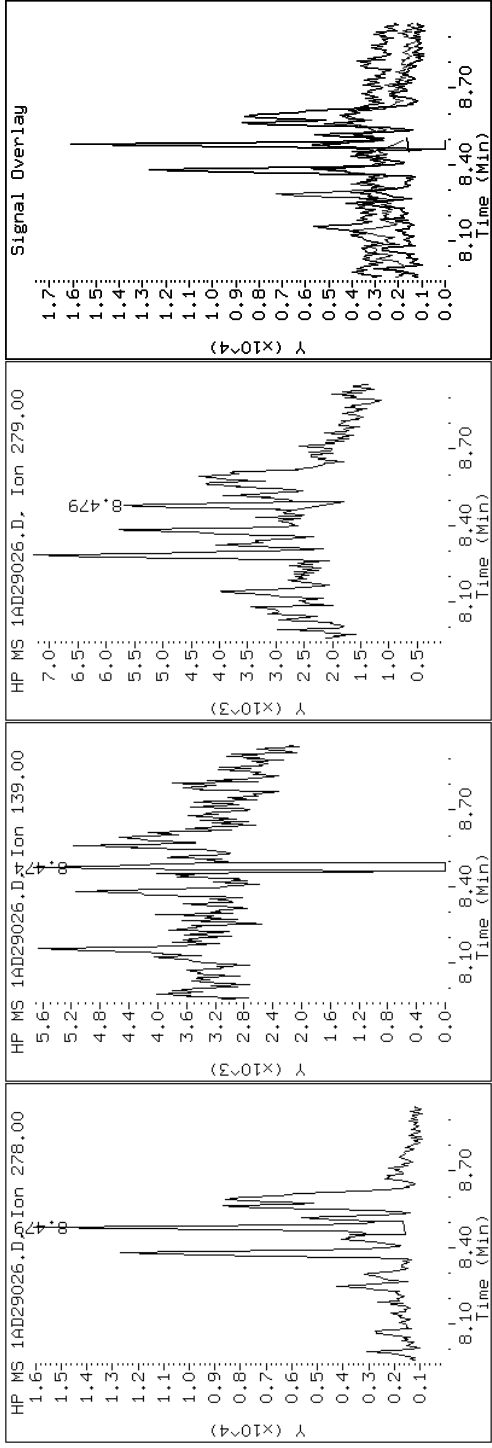
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

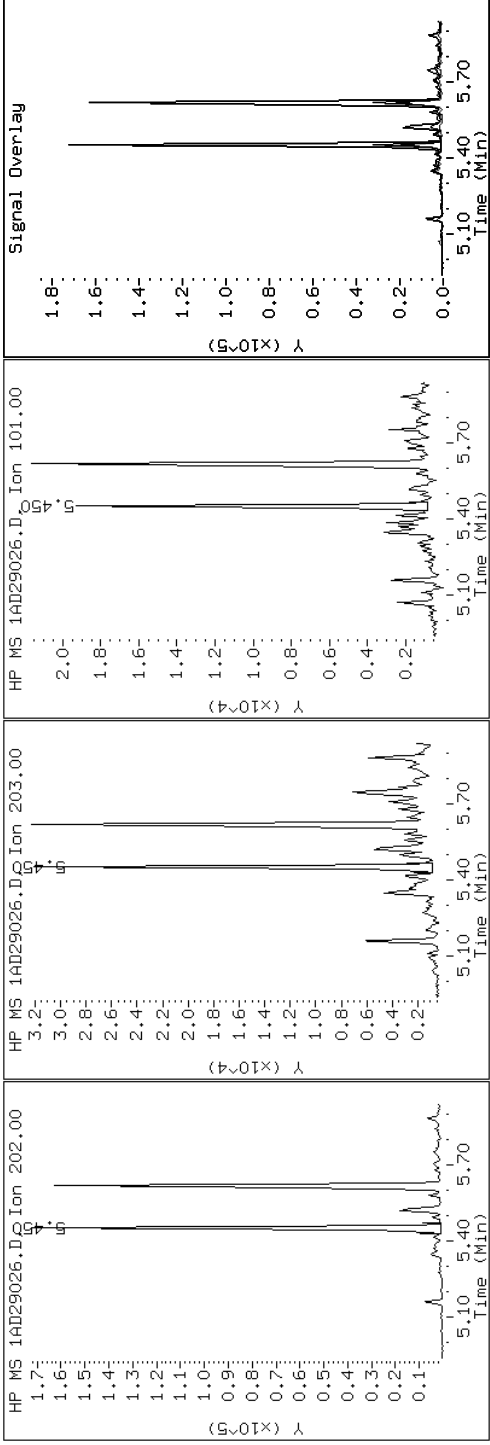
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

15 Fluoranthene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

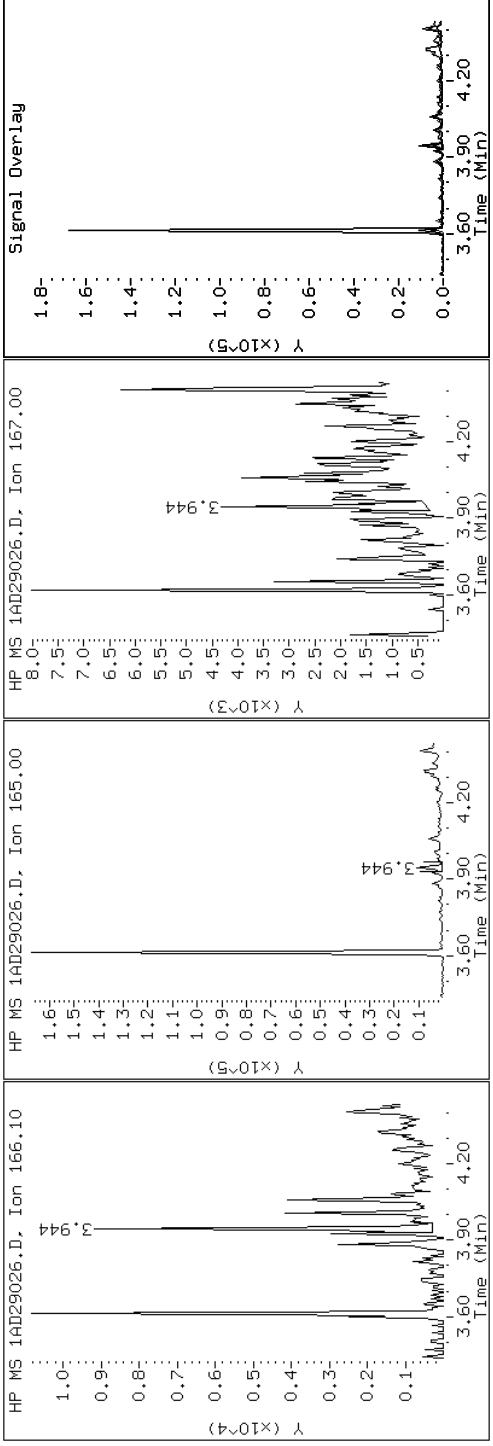
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

9 Fluorene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

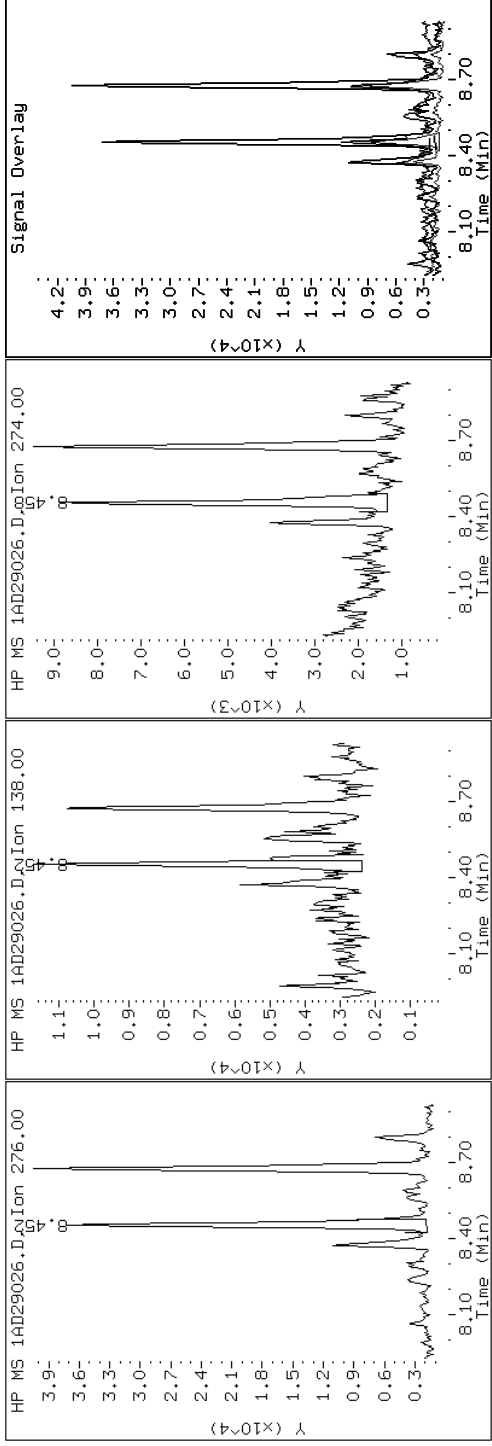
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

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



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

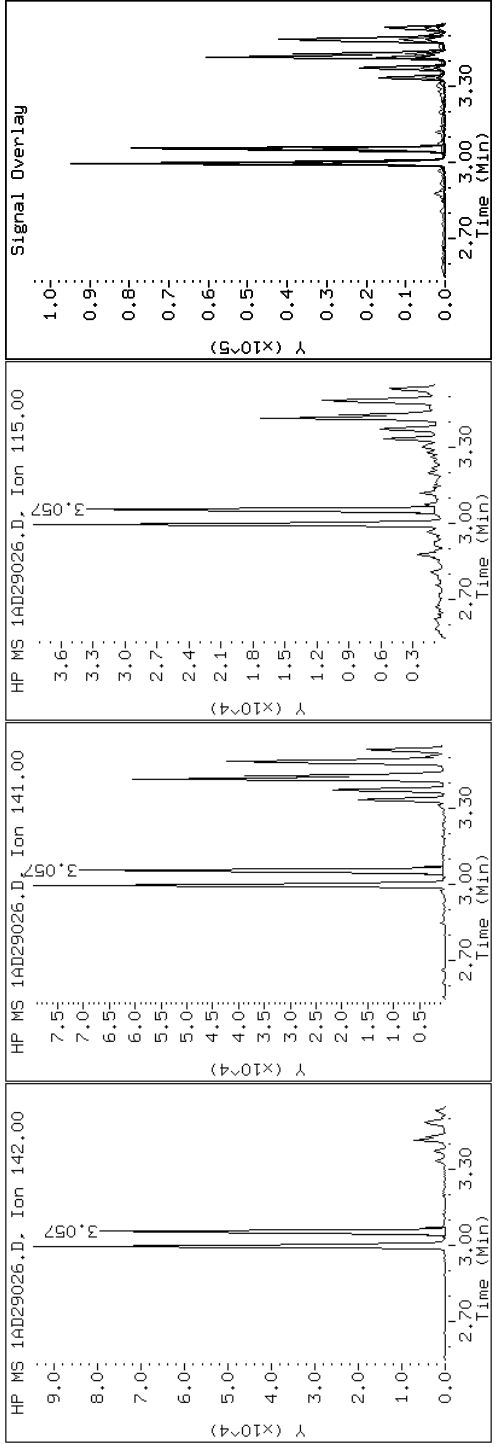
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

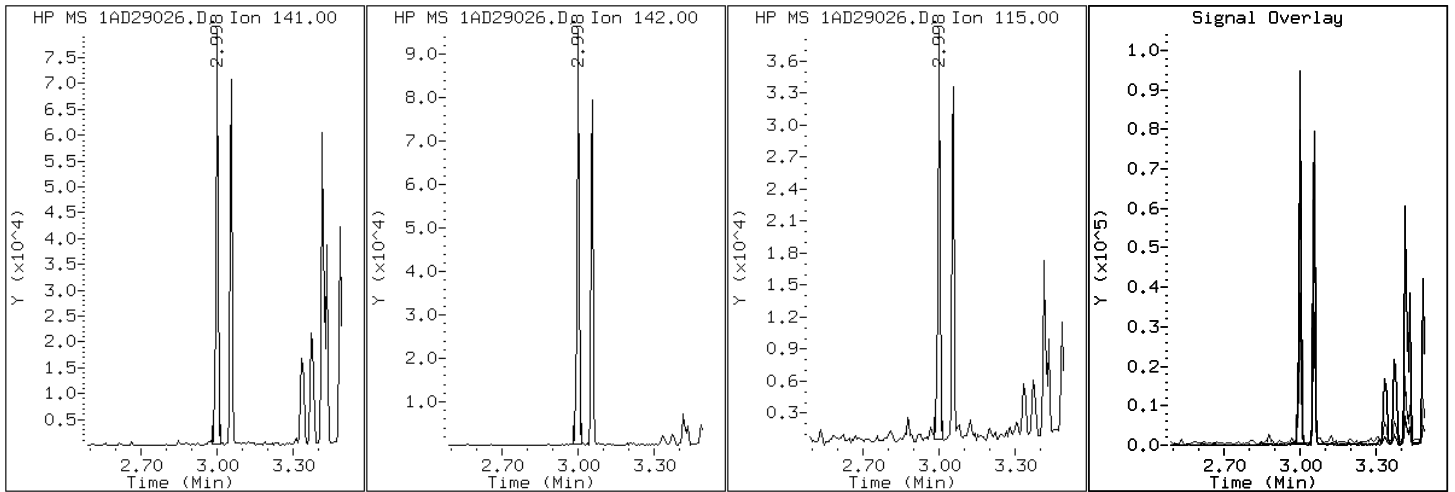
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

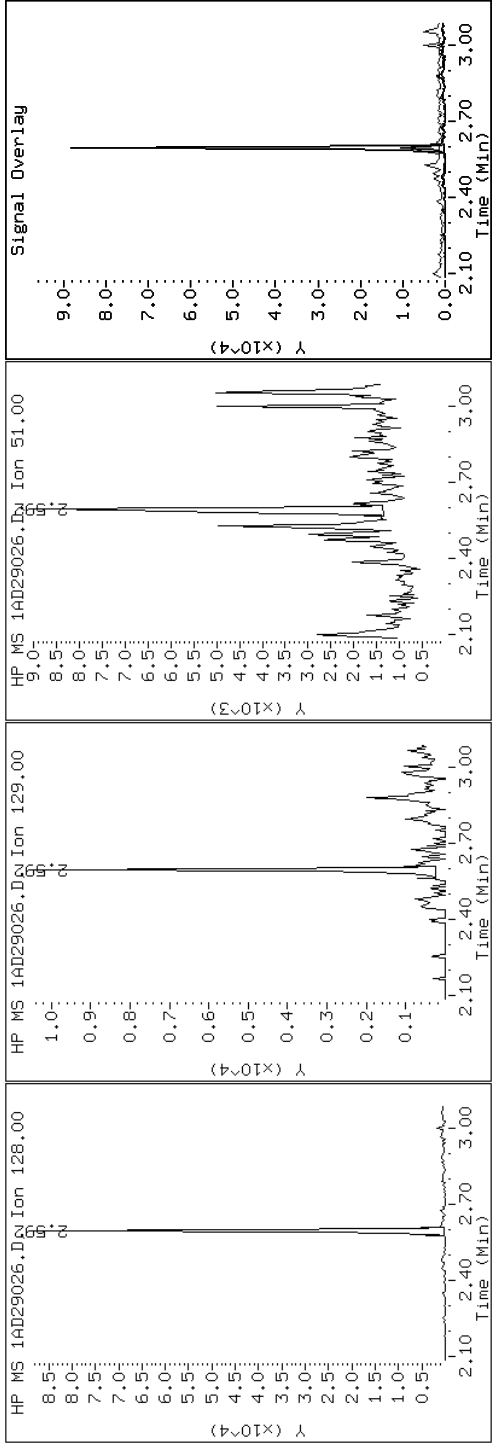
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

2 Naphthalene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

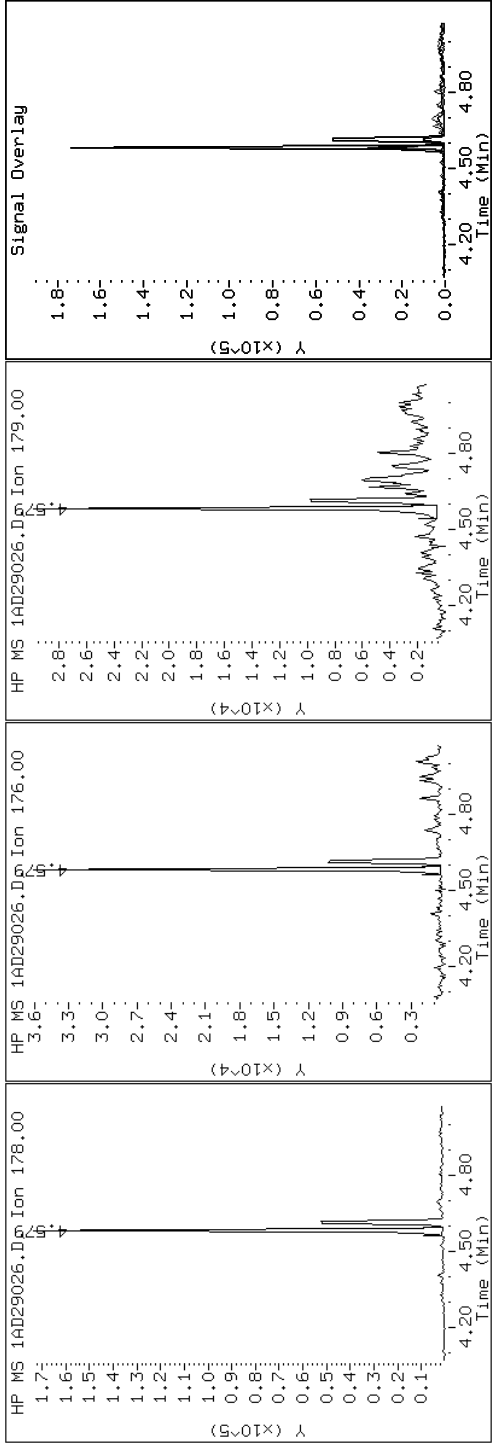
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

11 Phenanthrene



Data File: 1AD29026.D

Date: 29-APR-2013 18:25

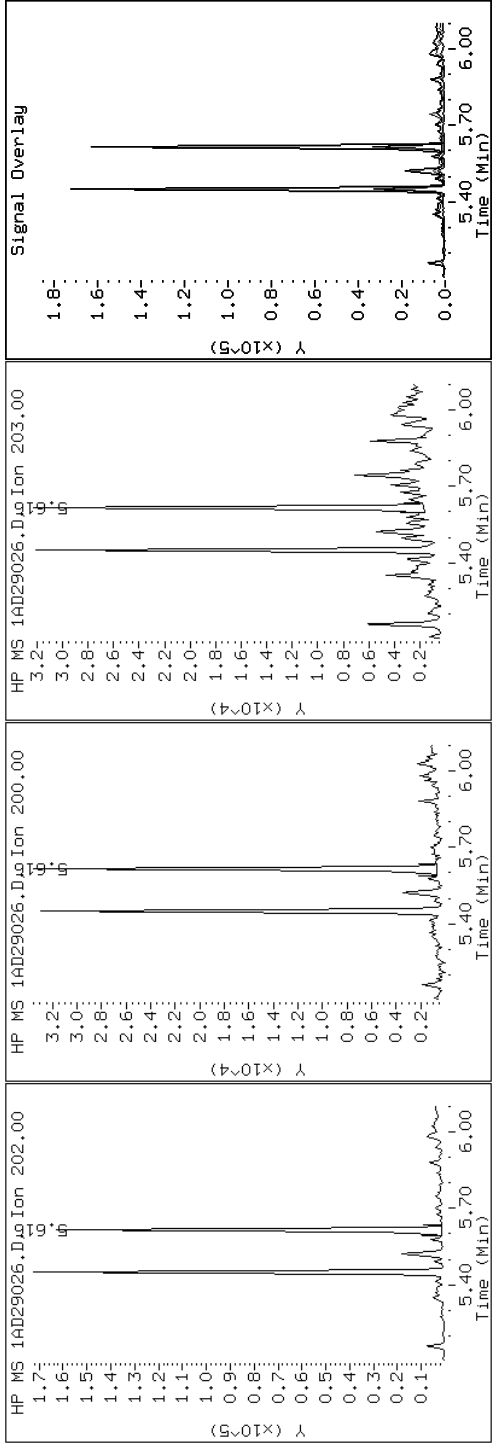
Client ID: CV1235B-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-24-a

Operator: SCC

16 Pyrene

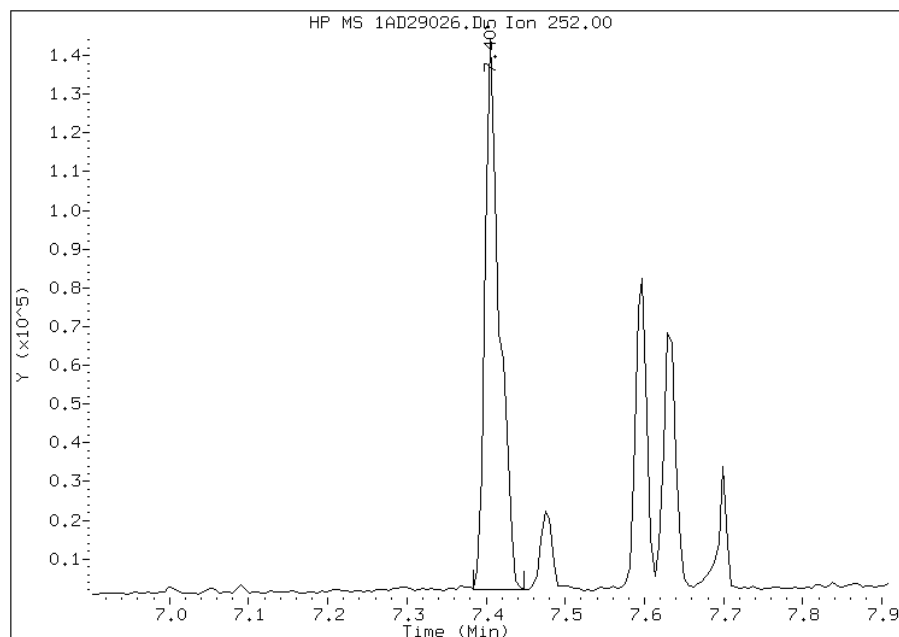


Manual Integration Report

Data File: 1AD29026.D
Inj. Date and Time: 29-APR-2013 18:25
Instrument ID: BSMA5973.i
Client ID: CV1235B-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

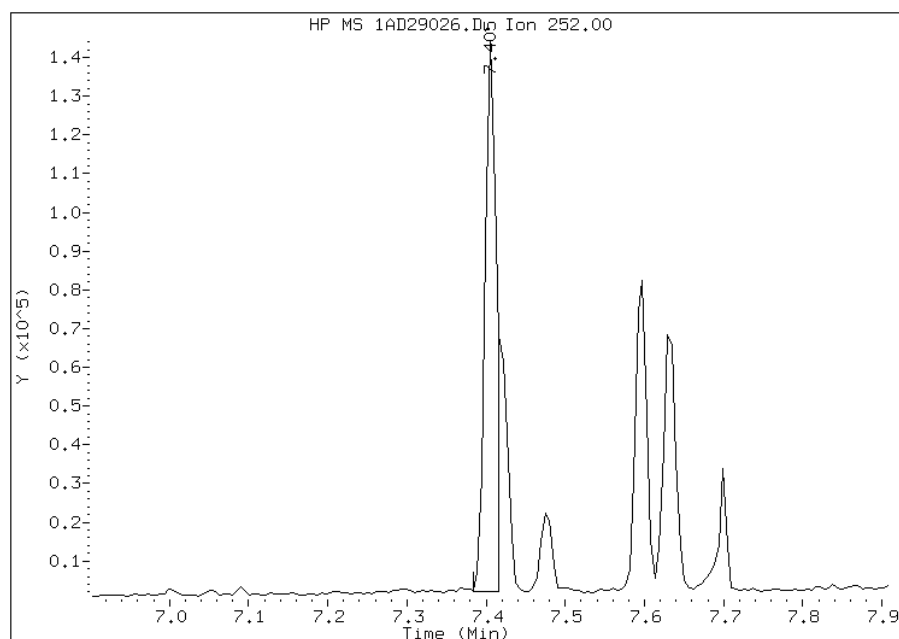
Processing Integration Results

RT: 7.41
Response: 177328
Amount: 3
Conc: 269



Manual Integration Results

RT: 7.41
Response: 139791
Amount: 3
Conc: 212



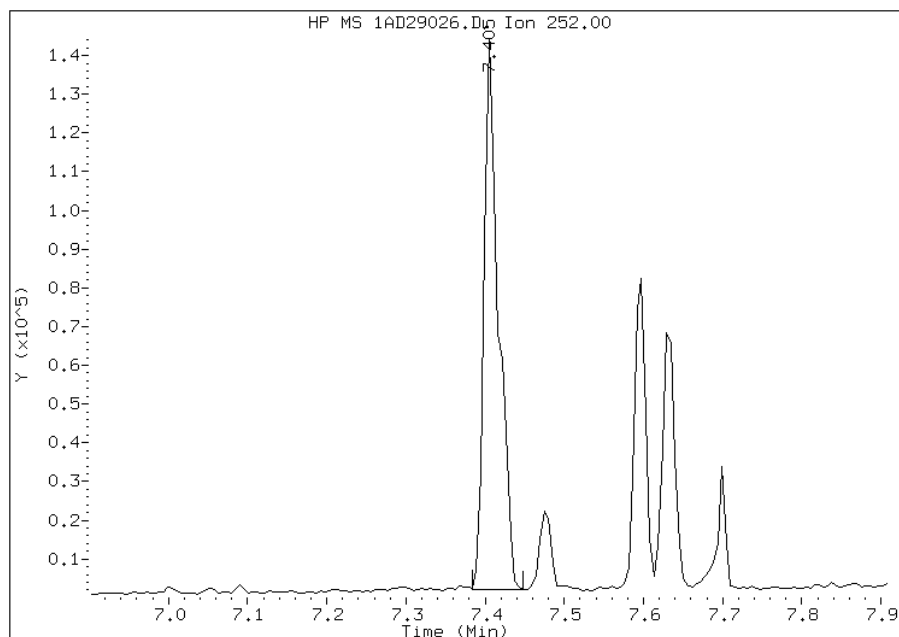
Manually Integrated By: cantins
Modification Date: 02-May-2013 13:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29026.D
Inj. Date and Time: 29-APR-2013 18:25
Instrument ID: BSMA5973.i
Client ID: CV1235B-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

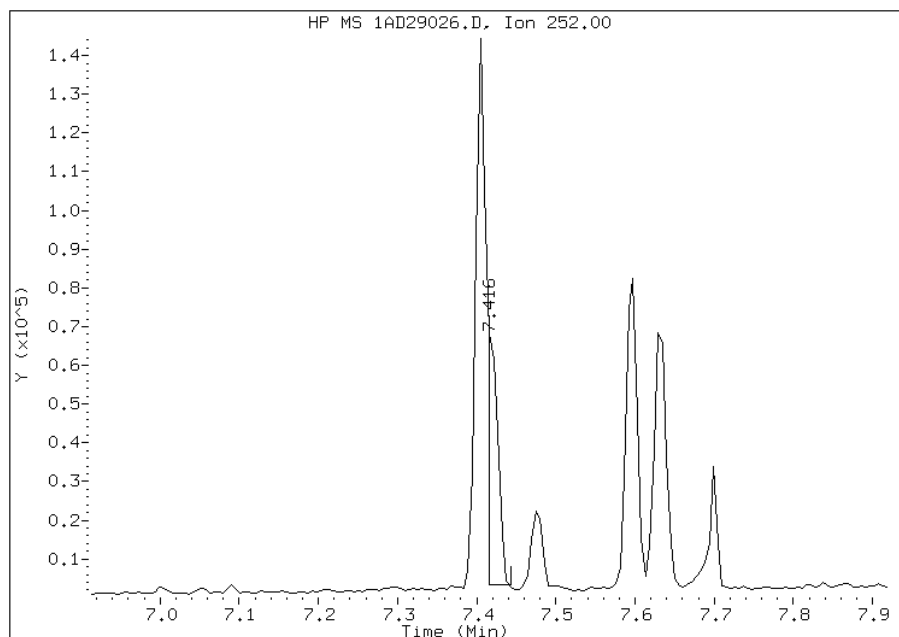
Processing Integration Results

RT: 7.41
Response: 177328
Amount: 3
Conc: 234



Manual Integration Results

RT: 7.42
Response: 56361
Amount: 1
Conc: 74



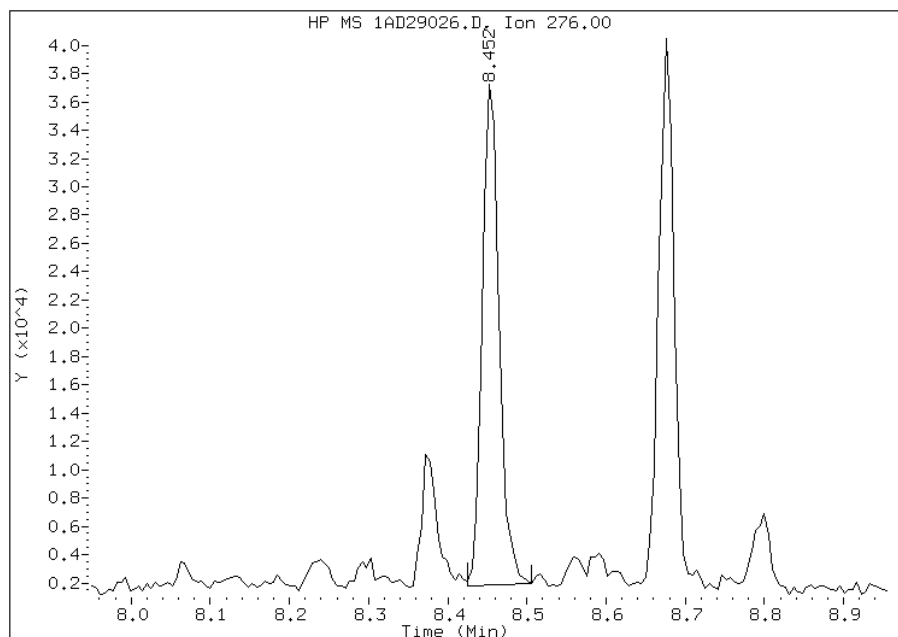
Manually Integrated By: cantins
Modification Date: 02-May-2013 13:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29026.D
Inj. Date and Time: 29-APR-2013 18:25
Instrument ID: BSMA5973.i
Client ID: CV1235B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

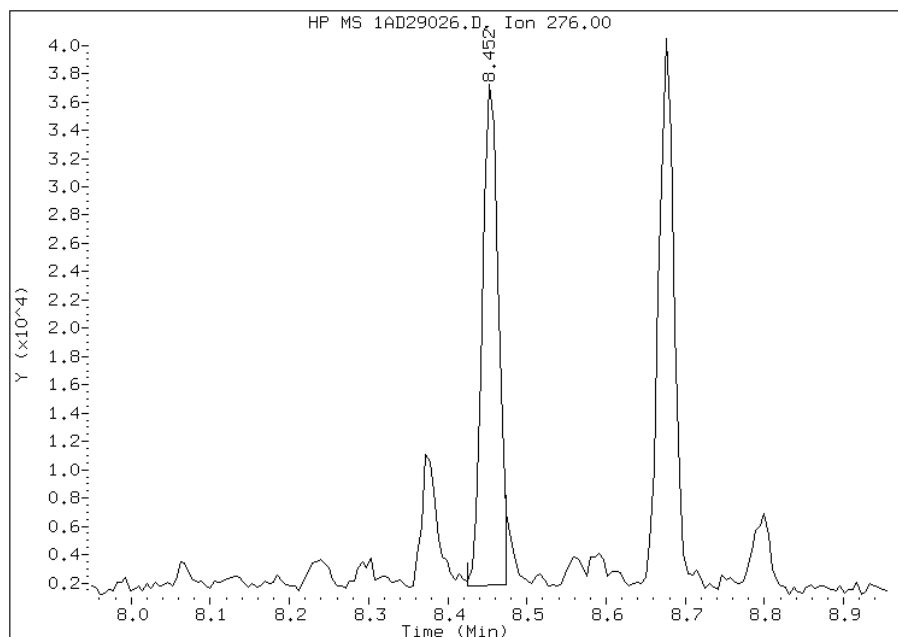
Processing Integration Results

RT: 8.45
Response: 51544
Amount: 1
Conc: 83



Manual Integration Results

RT: 8.45
Response: 49517
Amount: 1
Conc: 80



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV1235C-CS Lab Sample ID: 680-89695-25
 Matrix: Solid Lab File ID: 1AD29027.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 13:30
 Extract. Method: 3546 Date Extracted: 04/26/2013 07:28
 Sample wt/vol: 14.97(g) Date Analyzed: 04/29/2013 18:40
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 18.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136961 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	490	U	490	98
208-96-8	Acenaphthylene	36	J	200	24
120-12-7	Anthracene	48		41	21
56-55-3	Benzo[a]anthracene	150		39	19
50-32-8	Benzo[a]pyrene	140		51	25
205-99-2	Benzo[b]fluoranthene	240		60	30
191-24-2	Benzo[g,h,i]perylene	97	J	98	22
207-08-9	Benzo[k]fluoranthene	74		39	18
218-01-9	Chrysene	170		44	22
53-70-3	Dibenz(a,h)anthracene	27	J	98	20
206-44-0	Fluoranthene	220		98	20
86-73-7	Fluorene	98	U	98	20
193-39-5	Indeno[1,2,3-cd]pyrene	100		98	35
90-12-0	1-Methylnaphthalene	59	J	200	22
91-57-6	2-Methylnaphthalene	72	J	200	35
91-20-3	Naphthalene	70	J	200	22
85-01-8	Phenanthrene	150		39	19
129-00-0	Pyrene	150		98	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29027.D
 Lab Smp Id: 680-89695-A-25-A Client Smp ID: CV1235C-CS
 Inj Date : 29-APR-2013 18:40
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-25-a
 Misc Info : 680-89695-A-25-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
 Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 27
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	18.125	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.581	2.572	(1.000)	1667827	40.0000		
* 6 Acenaphthene-d10	164		3.612	3.603	(1.000)	851733	40.0000		
* 10 Phenanthrene-d10	188		4.568	4.554	(1.000)	1331522	40.0000		
\$ 14 o-Terphenyl	230		4.862	4.859	(1.064)	28873	1.32573	432.6553	
* 18 Chrysene-d12	240		6.593	6.574	(1.000)	1597782	40.0000		
* 23 Perylene-d12	264		7.688	7.663	(1.000)	1835540	40.0000		
2 Naphthalene	128		2.591	2.583	(1.004)	9003	0.21594	70.4723	
3 2-Methylnaphthalene	141		2.997	2.989	(1.161)	5245	0.21943	71.6107	
4 1-Methylnaphthalene	142		3.056	3.048	(1.184)	4827	0.18227	59.4843	
5 Acenaphthylene	152		3.521	3.513	(0.975)	5521	0.11091	36.1968(M)	
11 Phenanthrene	178		4.579	4.570	(1.002)	17405	0.45124	147.2631	
12 Anthracene	178		4.611	4.608	(1.009)	5851	0.14589	47.6109(Q)	
13 Carbazole	167		4.750	4.736	(1.040)	3157	0.08160	26.6294	
15 Fluoranthene	202		5.449	5.436	(1.193)	29642	0.66535	217.1386	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.615	5.601 (0.852)		28715	0.47107	153.7359
17 Benzo(a)anthracene	228	6.587	6.563 (0.999)		23198	0.44459	145.0917
19 Chrysene	228	6.609	6.595 (1.002)		27393	0.51747	168.8772
20 Benzo(b)fluoranthene	252	7.405	7.380 (0.963)		41684	0.74802	244.1176(M)
21 Benzo(k)fluoranthene	252	7.421	7.407 (0.965)		14481	0.22602	73.7608(QM)
22 Benzo(a)pyrene	252	7.629	7.610 (0.992)		23218	0.41882	136.6820
24 Indeno(1,2,3-cd)pyrene	276	8.452	8.427 (1.099)		16451	0.31429	102.5679(M)
25 Dibenzo(a,h)anthracene	278	8.473	8.454 (1.102)		4019	0.08252	26.9304
26 Benzo(g,h,i)perylene	276	8.671	8.646 (1.128)		17363	0.29638	96.7252

QC Flag Legend

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

Data File: 1AD29027.D

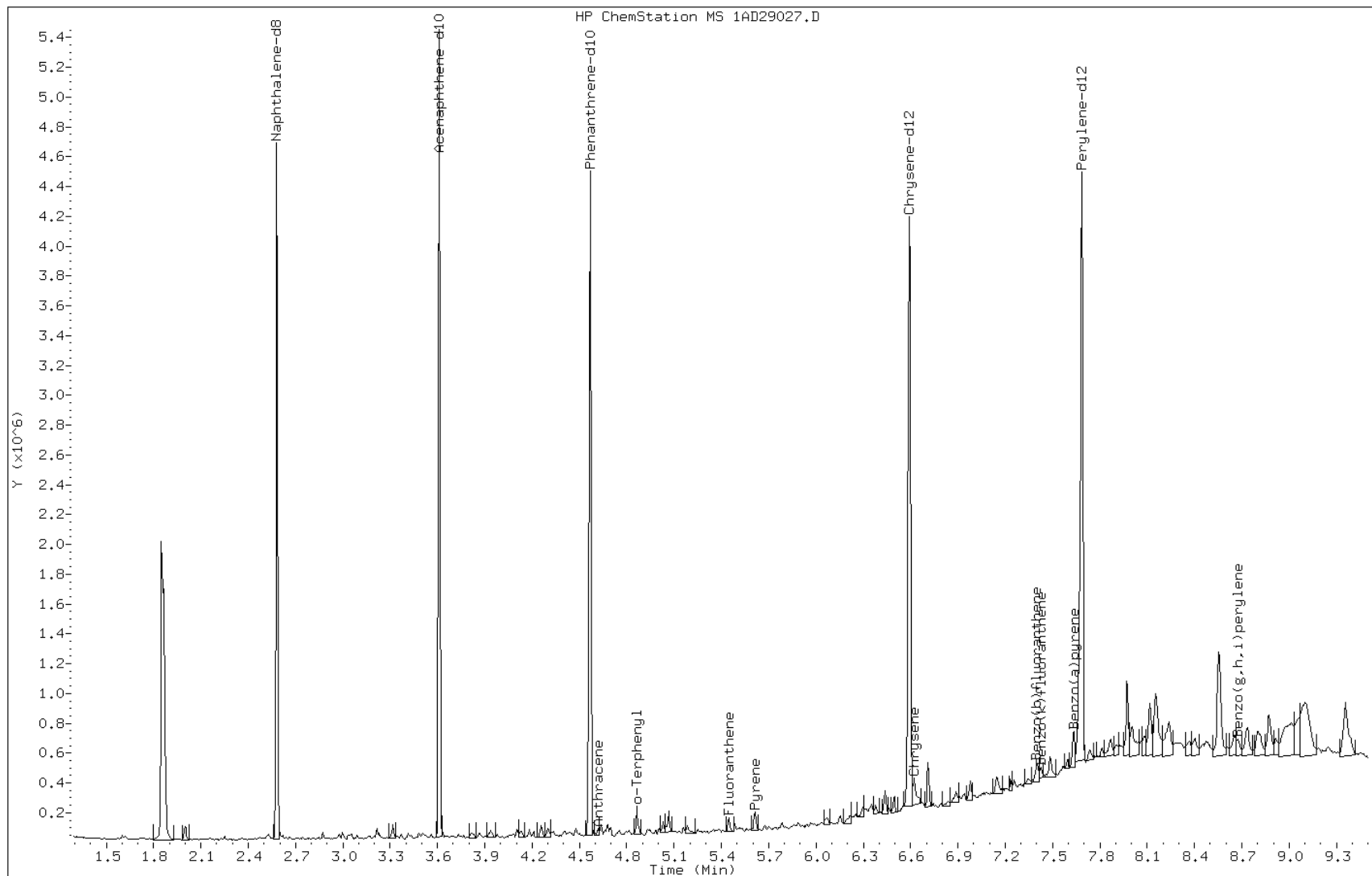
Date: 29-APR-2013 18:40

Client ID: CV1235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

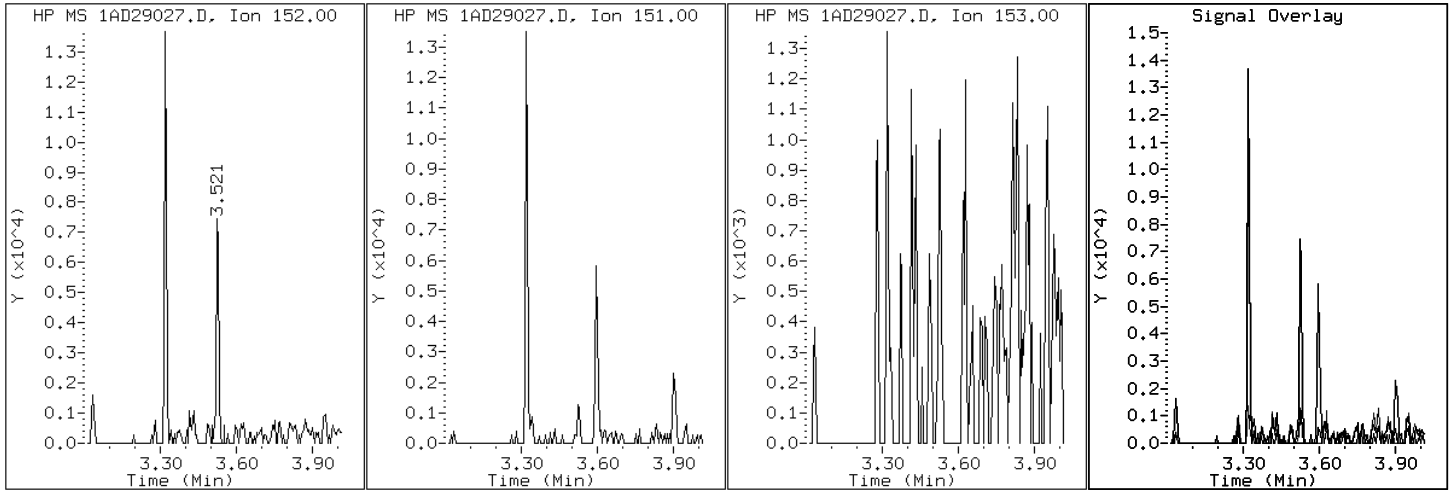
Client ID: CV1235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

5 Acenaphthylene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

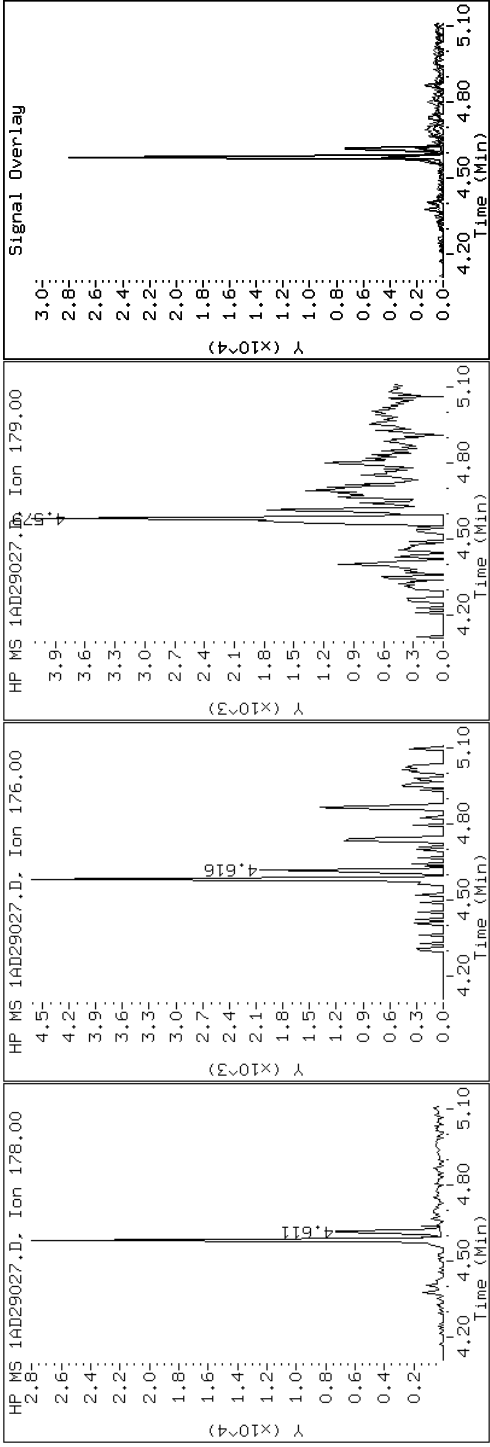
Client ID: CV1235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

12 Anthracene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

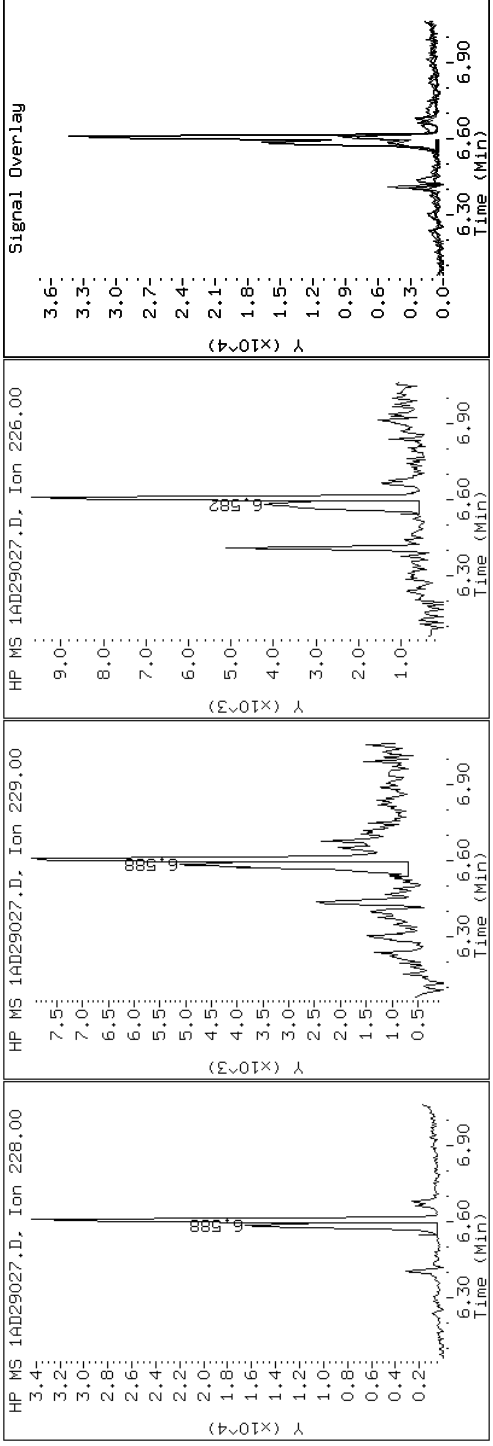
Client ID: CV1235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

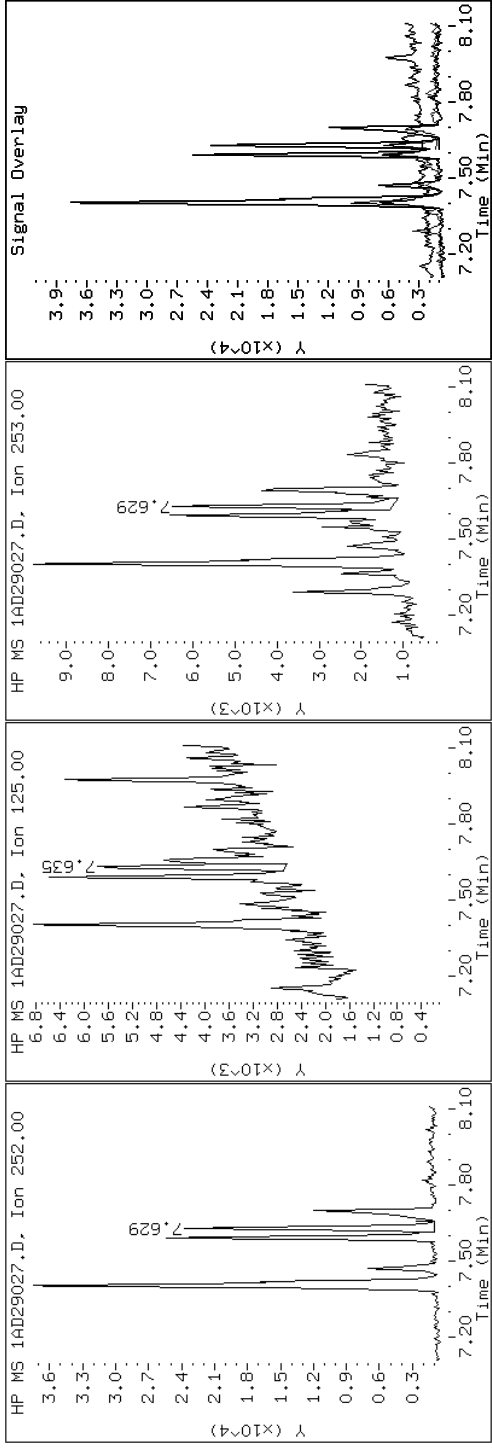
Client ID: CV1235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

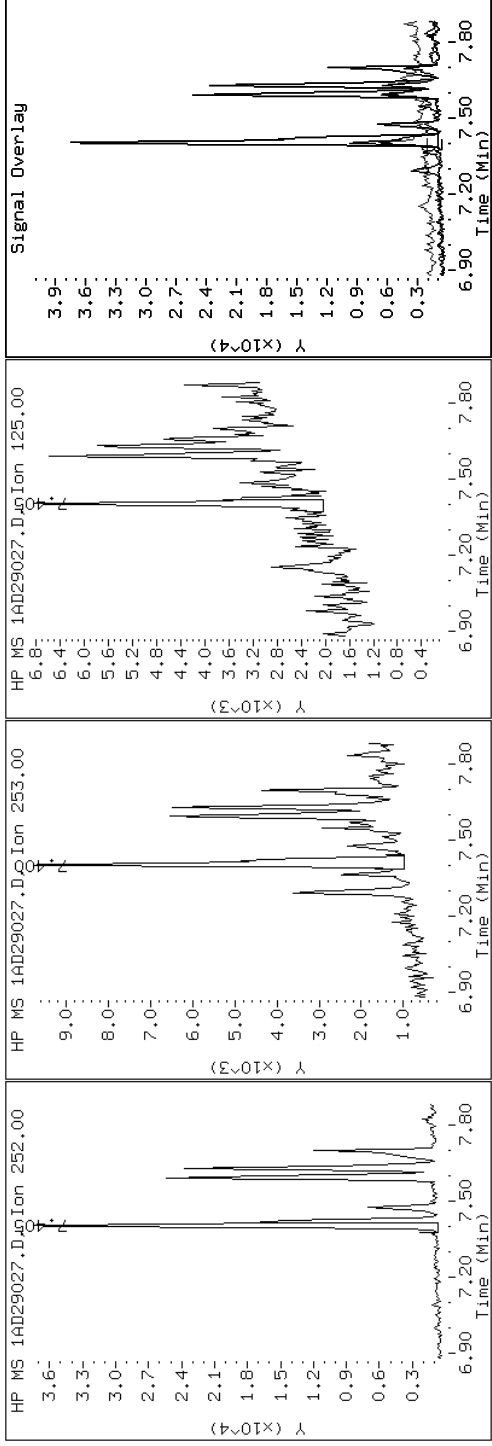
Client ID: CV1235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

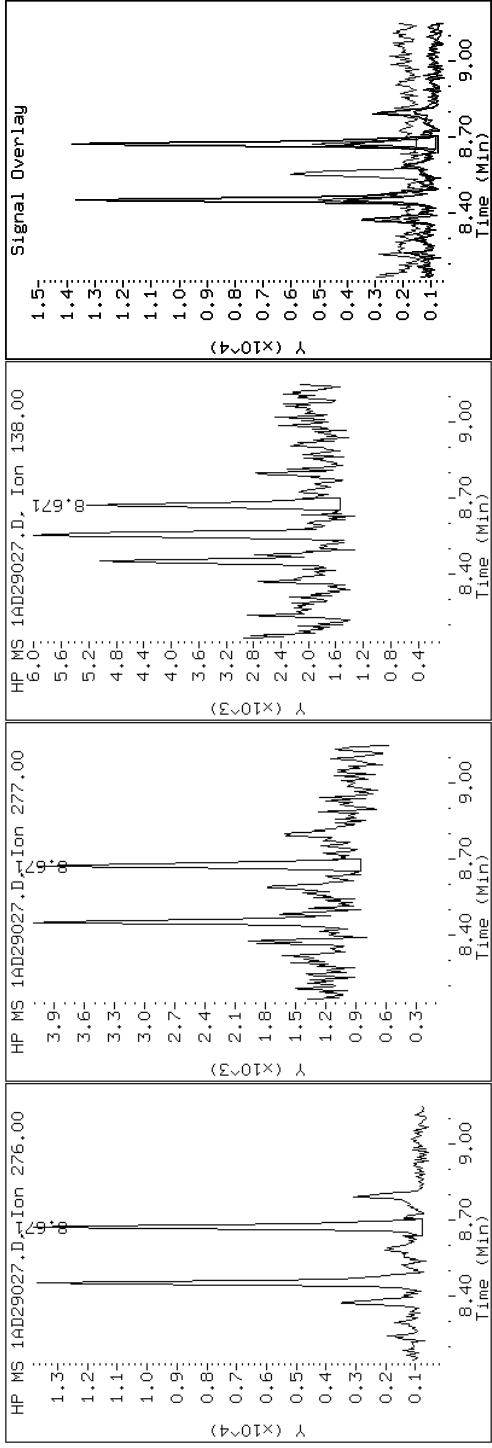
Client ID: CV1235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

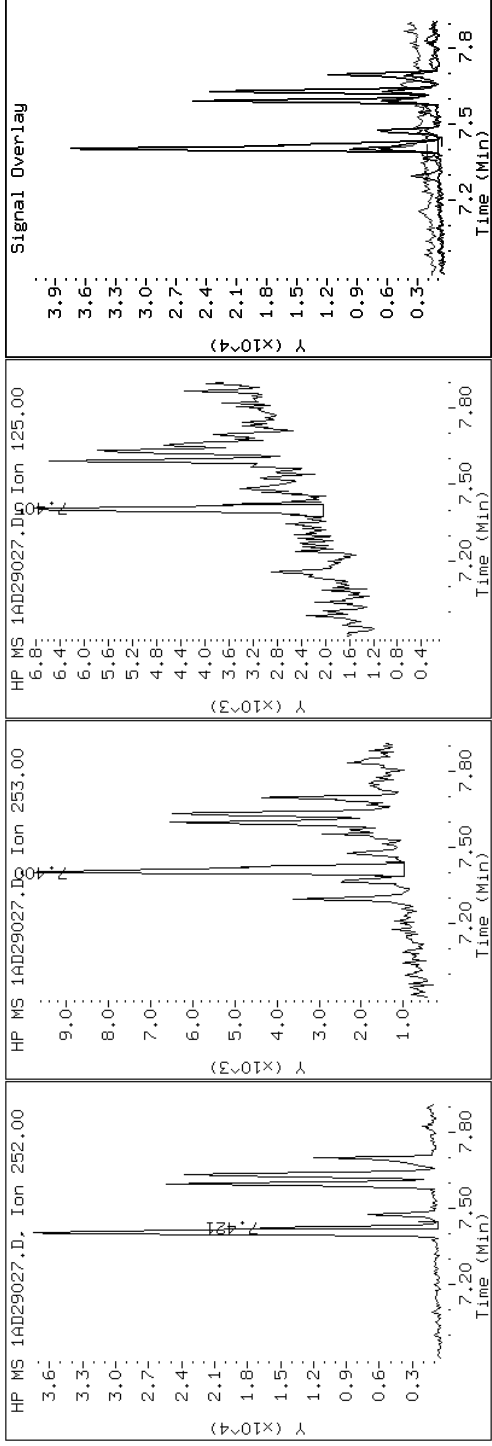
Client ID: CV1235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

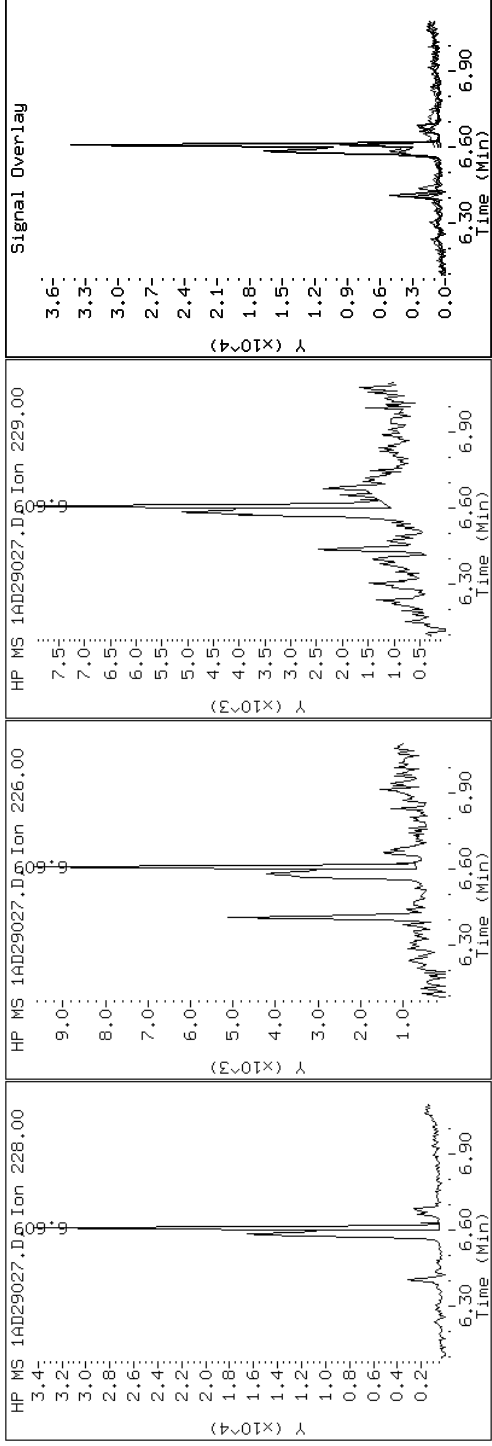
Client ID: CVI235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

19 Chrysene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

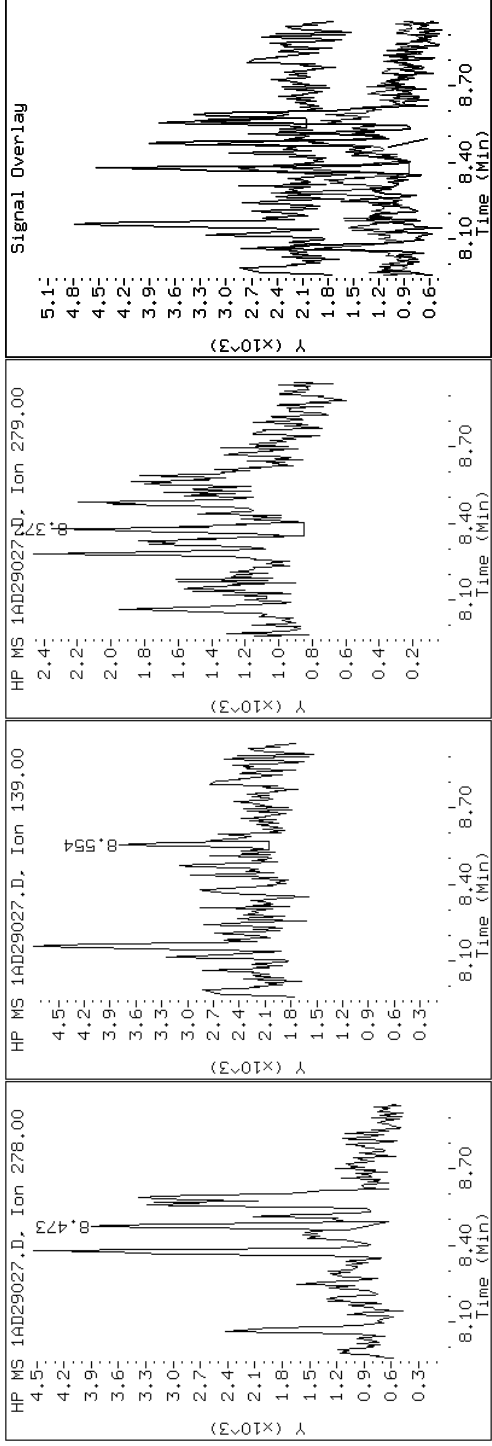
Client ID: CV1235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

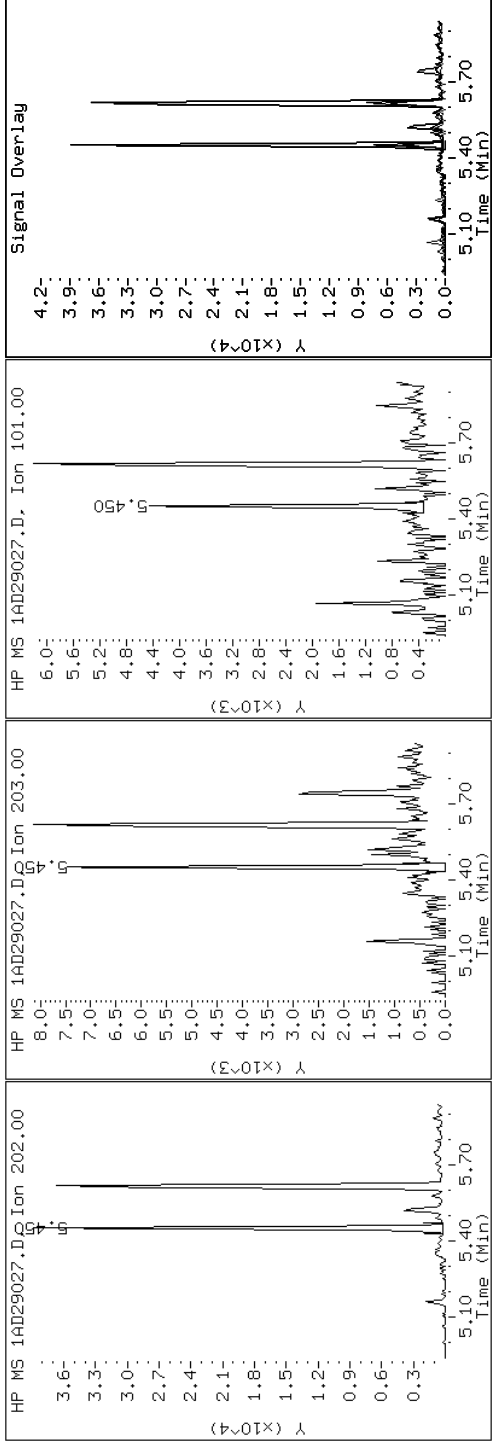
Client ID: CV1235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

15 Fluoranthene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

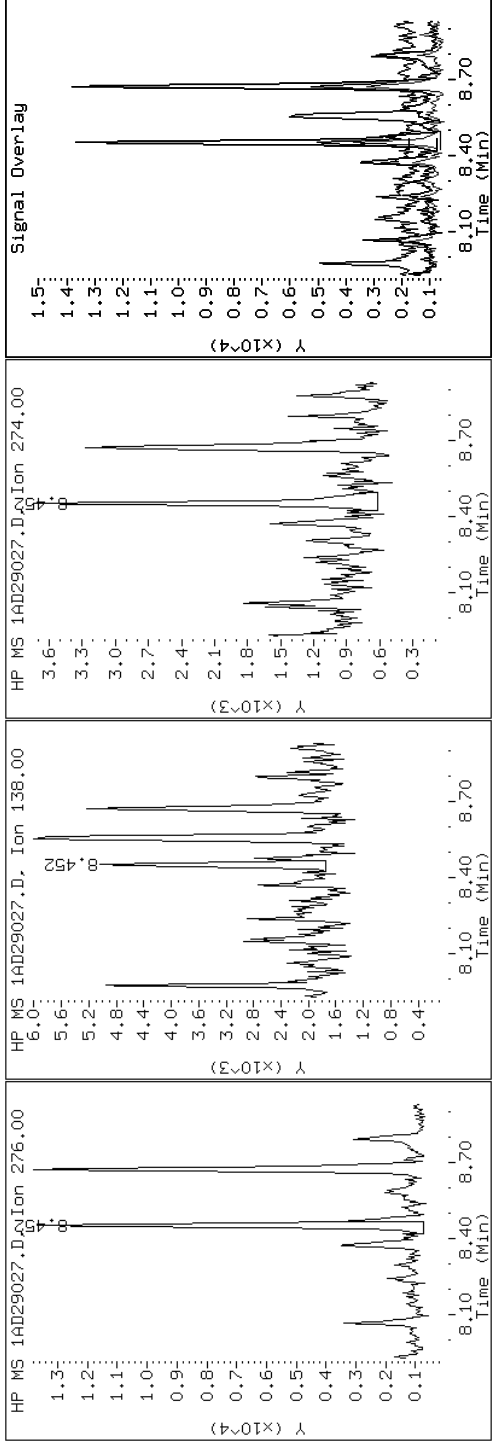
Client ID: CVI235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

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



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

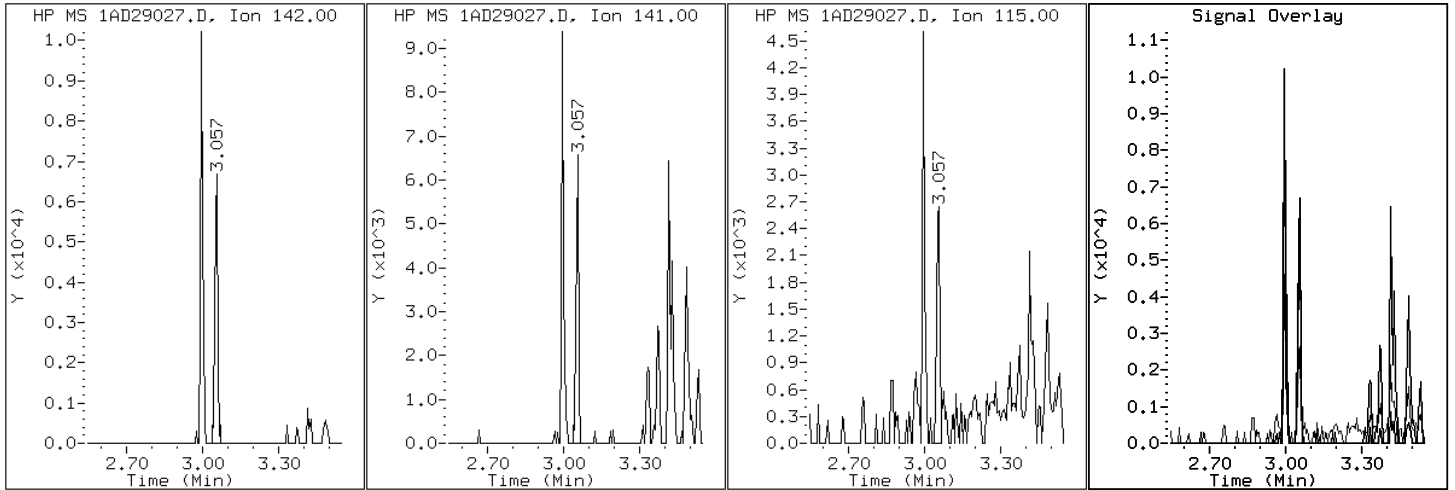
Client ID: CV1235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

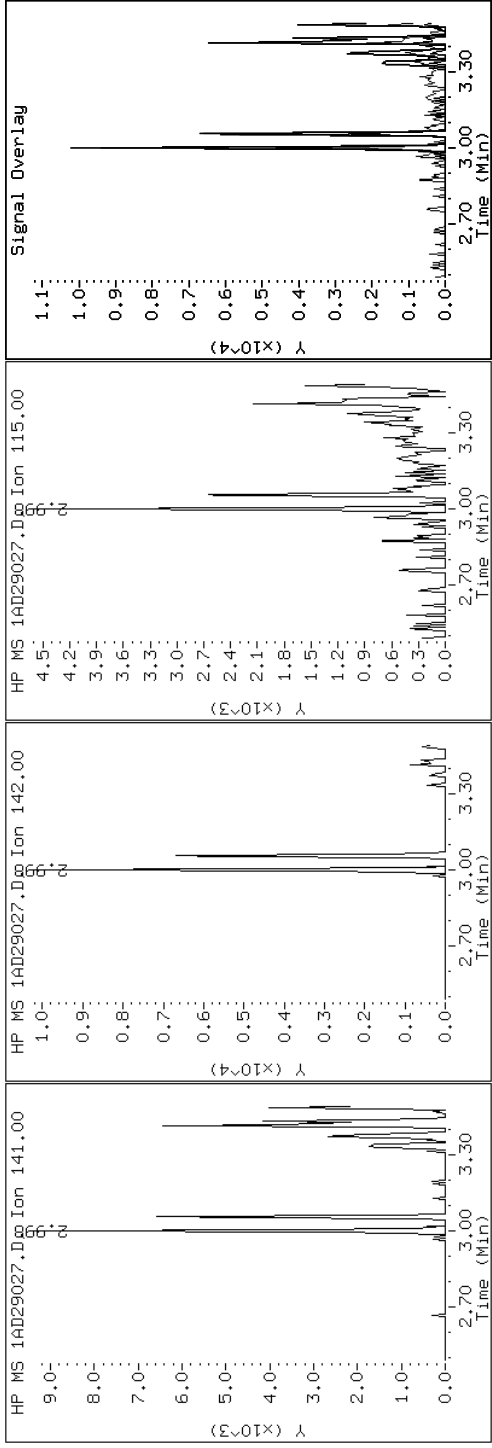
Client ID: CVI235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

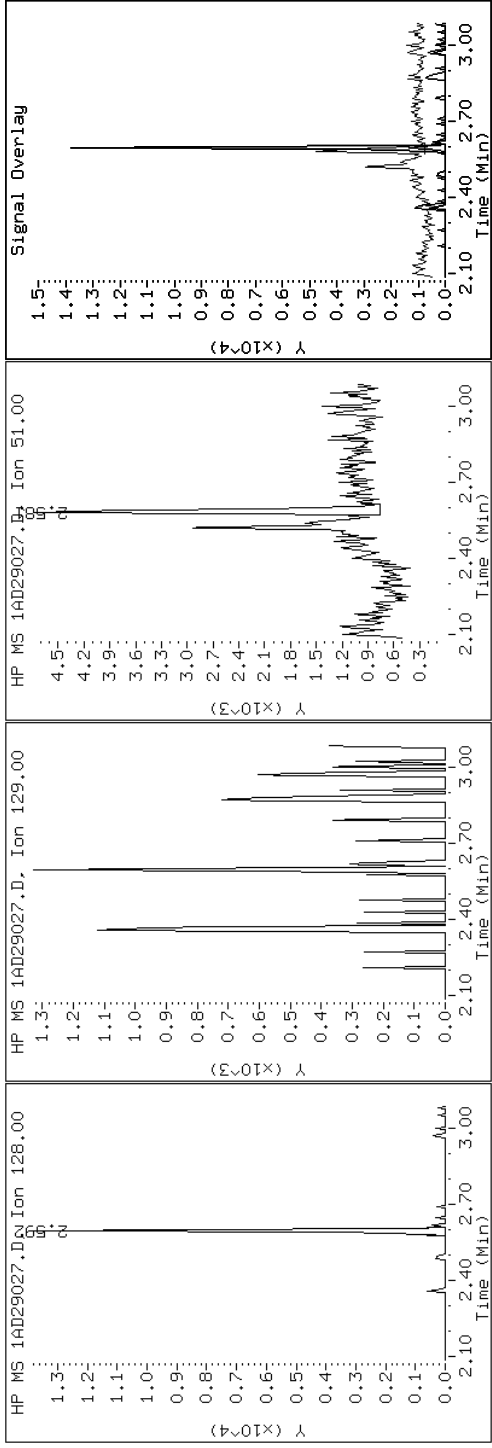
Client ID: CVI235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

2 Naphthalene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

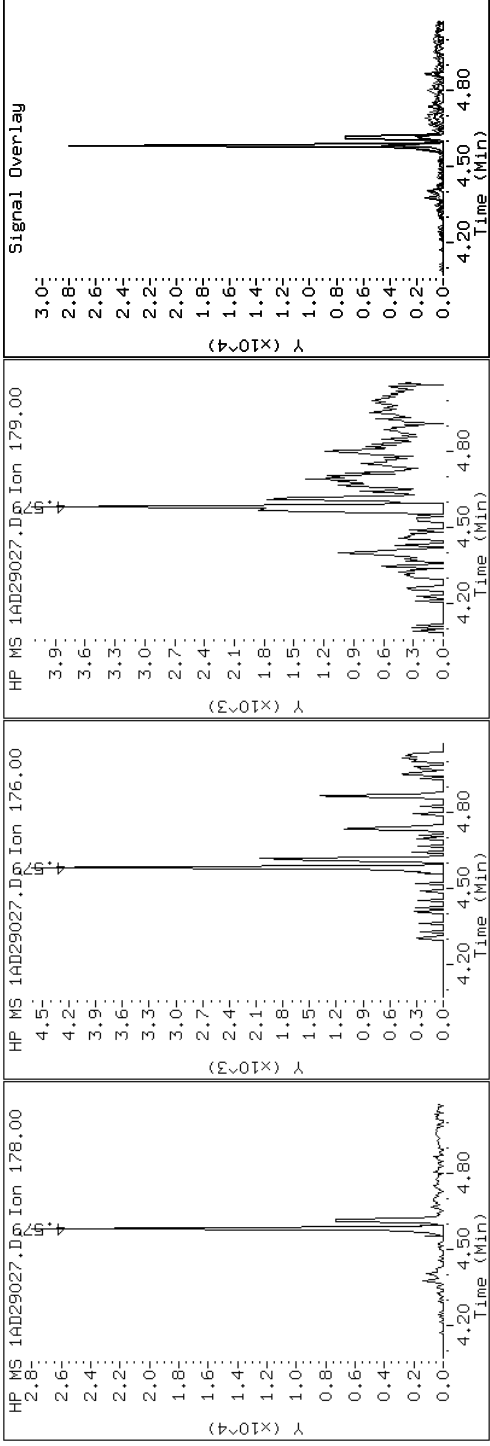
Client ID: CV1235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

11 Phenanthrene



Data File: 1AD29027.D

Date: 29-APR-2013 18:40

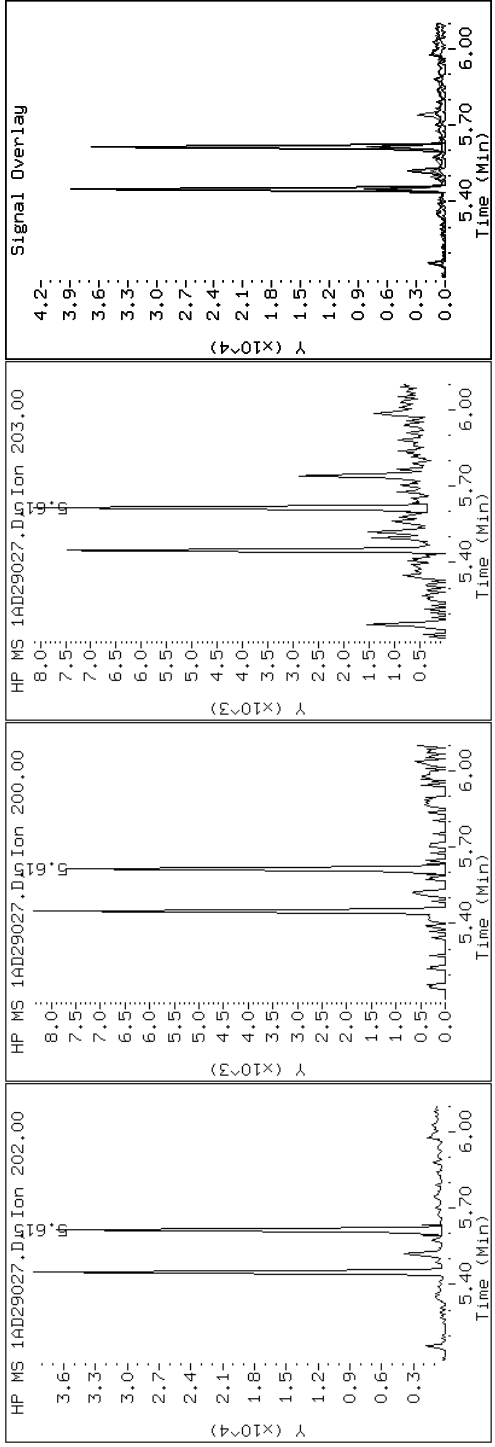
Client ID: CVI235C-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-25-a

Operator: SCC

16 Pyrene



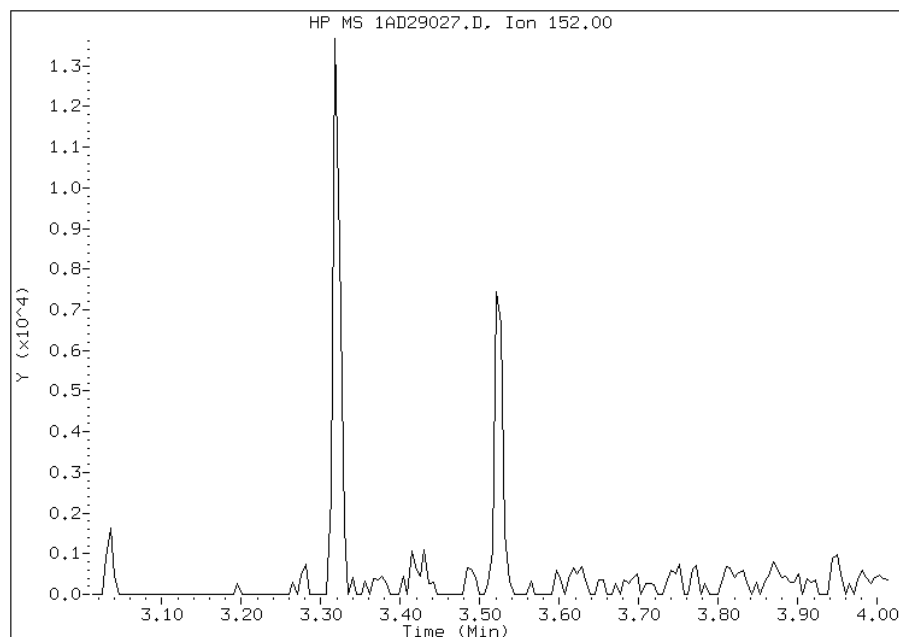
Manual Integration Report

Data File: 1AD29027.D
Inj. Date and Time: 29-APR-2013 18:40
Instrument ID: BSMA5973.i
Client ID: CV1235C-CS
Compound: 5 Acenaphthylene
CAS #: 208-96-8
Report Date: 05/02/2013

Processing Integration Results

Not Detected

Expected RT: 3.51



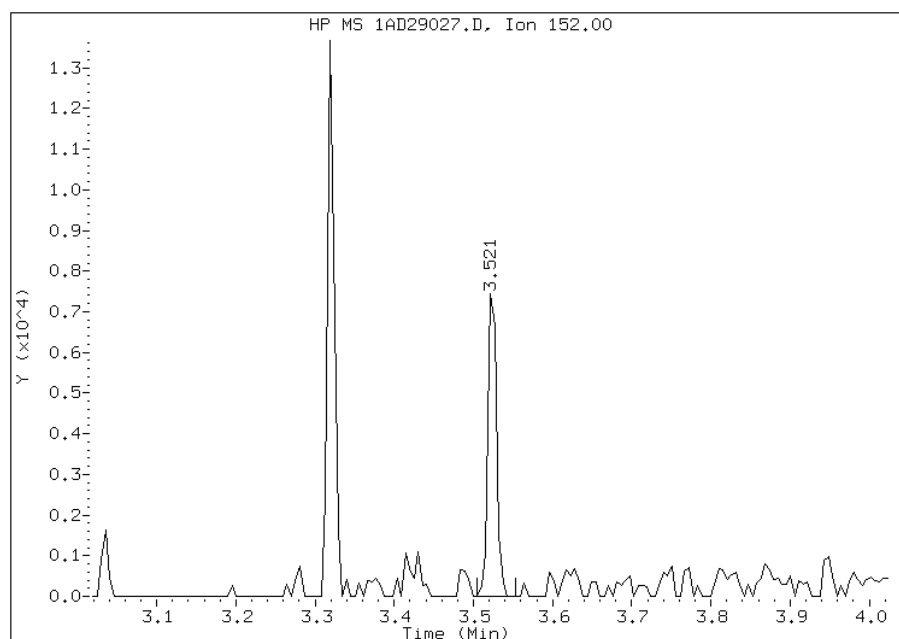
Manual Integration Results

RT: 3.52

Response: 5521

Amount: 0

Conc: 36



Manually Integrated By: cantins

Modification Date: 02-May-2013 13:37

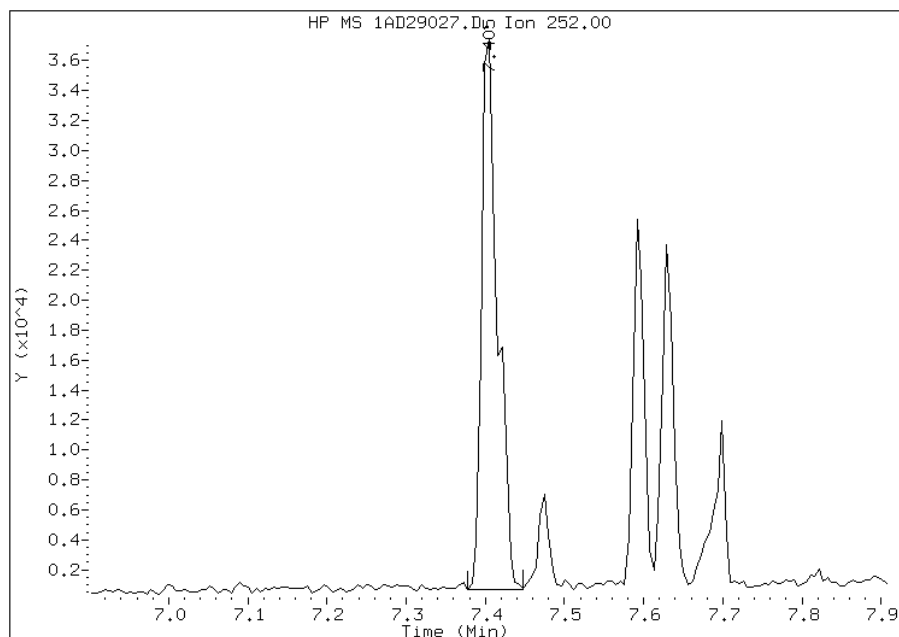
Manual Integration Reason: Analyte not Identified by the Data System

Manual Integration Report

Data File: 1AD29027.D
Inj. Date and Time: 29-APR-2013 18:40
Instrument ID: BSMA5973.i
Client ID: CV1235C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

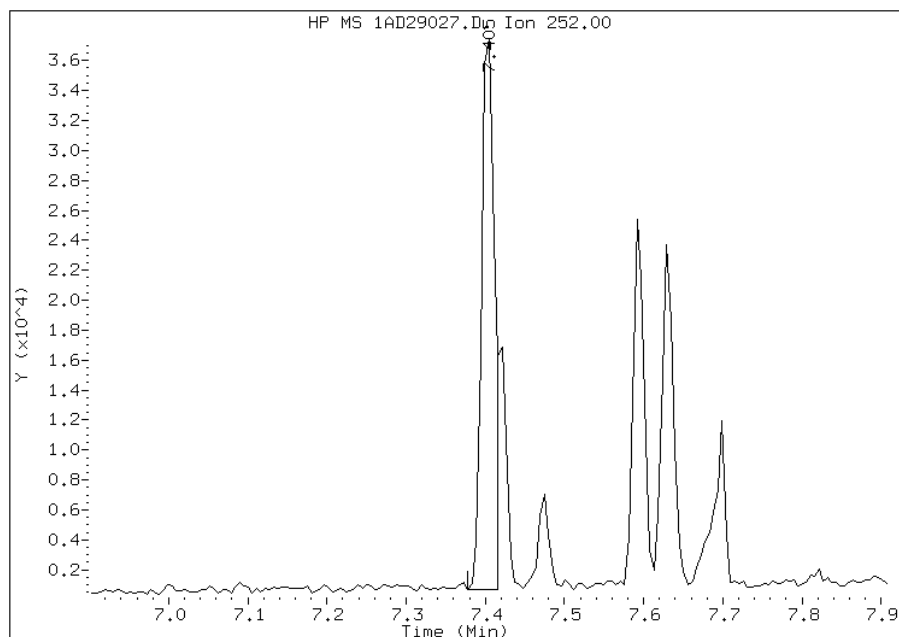
Processing Integration Results

RT: 7.41
Response: 51094
Amount: 1
Conc: 299



Manual Integration Results

RT: 7.41
Response: 41684
Amount: 1
Conc: 244



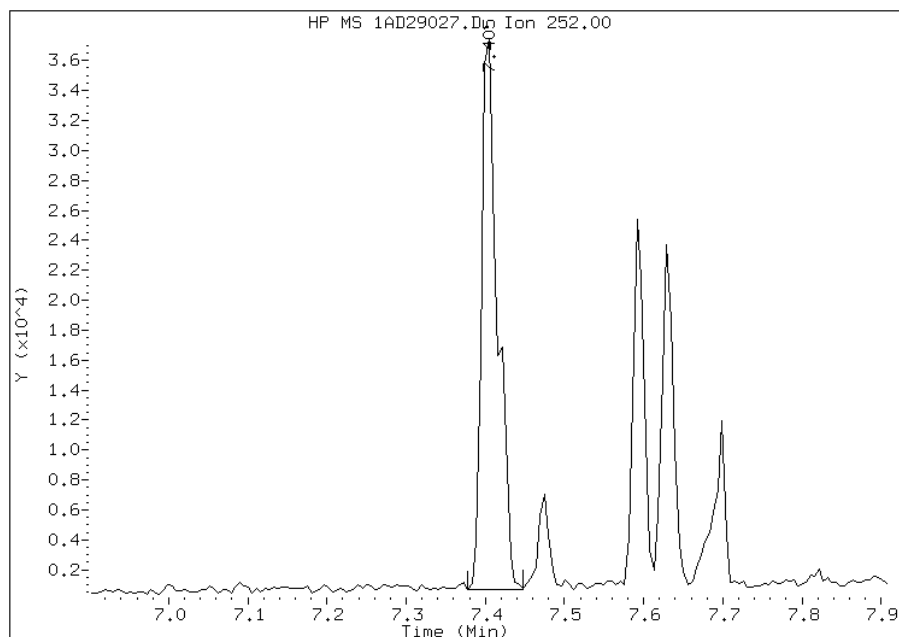
Manually Integrated By: cantins
Modification Date: 02-May-2013 13:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29027.D
Inj. Date and Time: 29-APR-2013 18:40
Instrument ID: BSMA5973.i
Client ID: CV1235C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

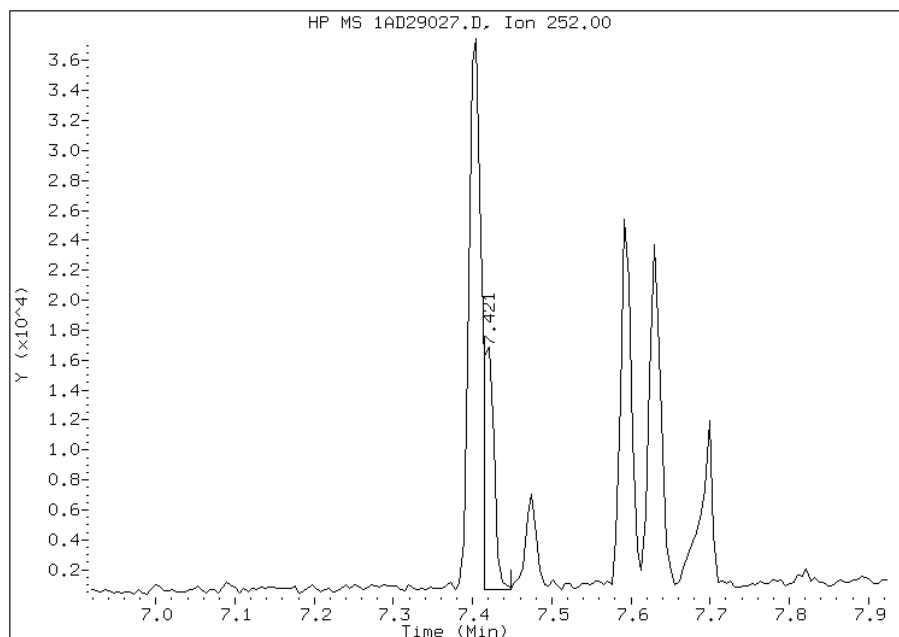
Processing Integration Results

RT: 7.41
Response: 51094
Amount: 1
Conc: 260



Manual Integration Results

RT: 7.42
Response: 14481
Amount: 0
Conc: 74



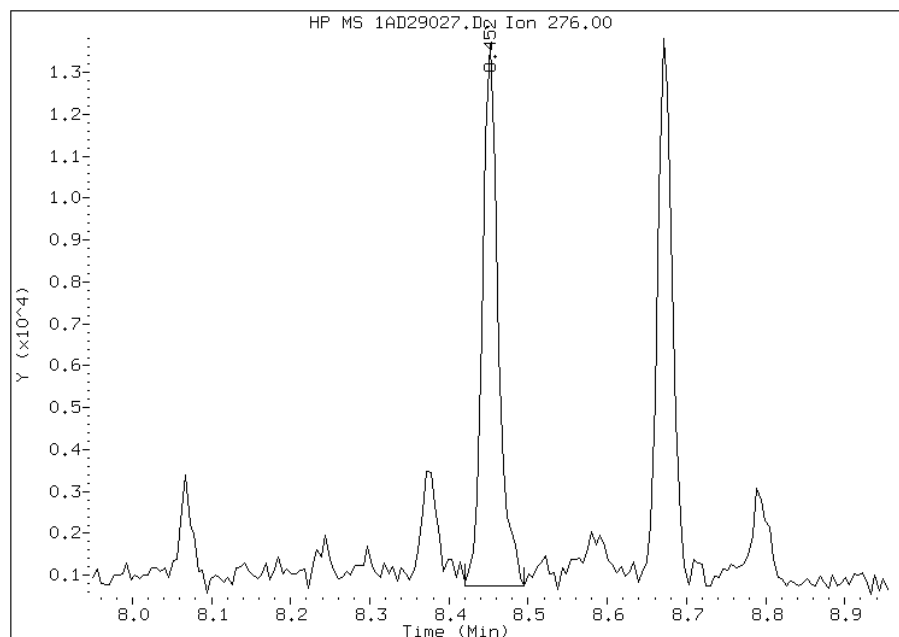
Manually Integrated By: cantins
Modification Date: 02-May-2013 13:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29027.D
Inj. Date and Time: 29-APR-2013 18:40
Instrument ID: BSMA5973.i
Client ID: CV1235C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

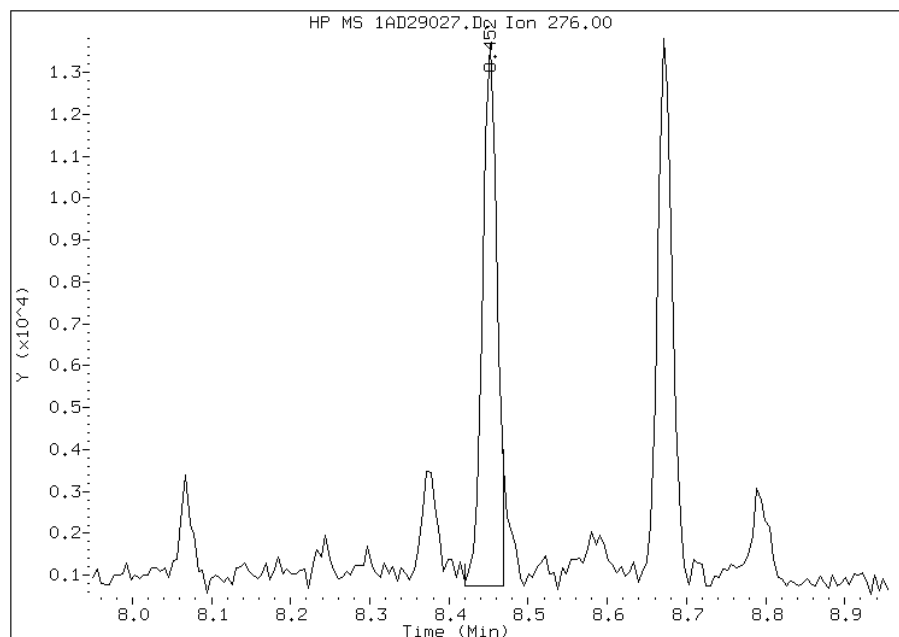
Processing Integration Results

RT: 8.45
Response: 17762
Amount: 0
Conc: 111



Manual Integration Results

RT: 8.45
Response: 16451
Amount: 0
Conc: 103



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV1235D-CS Lab Sample ID: 680-89695-26
 Matrix: Solid Lab File ID: 1AD29028.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 13:40
 Extract. Method: 3546 Date Extracted: 04/26/2013 07:28
 Sample wt/vol: 15.05(g) Date Analyzed: 04/29/2013 18:55
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.6 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136961 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	480	U	480	97
208-96-8	Acenaphthylene	77	J	190	24
120-12-7	Anthracene	120		41	20
56-55-3	Benzo[a]anthracene	200		39	19
50-32-8	Benzo[a]pyrene	210		50	25
205-99-2	Benzo[b]fluoranthene	470		59	30
191-24-2	Benzo[g,h,i]perylene	160		97	21
207-08-9	Benzo[k]fluoranthene	100		39	17
218-01-9	Chrysene	320		44	22
53-70-3	Dibenz(a,h)anthracene	49	J	97	20
206-44-0	Fluoranthene	440		97	19
86-73-7	Fluorene	97	U	97	20
193-39-5	Indeno[1,2,3-cd]pyrene	170		97	34
90-12-0	1-Methylnaphthalene	100	J	190	21
91-57-6	2-Methylnaphthalene	120	J	190	34
91-20-3	Naphthalene	95	J	190	21
85-01-8	Phenanthrene	280		39	19
129-00-0	Pyrene	290		97	18

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\BSMA5973.i\1A042913.b\1AD29028.D
 Lab Smp Id: 680-89695-A-26-A Client Smp ID: CV1235D-CS
 Inj Date : 29-APR-2013 18:55
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-26-a
 Misc Info : 680-89695-A-26-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
 Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 28
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	17.582	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.583	2.572	(1.000)	1621628	40.0000		
* 6 Acenaphthene-d10	164		3.614	3.603	(1.000)	814655	40.0000		
* 10 Phenanthrene-d10	188		4.570	4.554	(1.000)	1319034	40.0000		
\$ 14 o-Terphenyl	230		4.864	4.859	(1.064)	30617	1.41912	457.6378	
* 18 Chrysene-d12	240		6.595	6.574	(1.000)	1574843	40.0000		
* 23 Perylene-d12	264		7.690	7.663	(1.000)	1808238	40.0000		
2 Naphthalene	128		2.593	2.583	(1.004)	11930	0.29430	94.9048	
3 2-Methylnaphthalene	141		2.999	2.989	(1.161)	8327	0.35829	115.5414	
4 1-Methylnaphthalene	142		3.053	3.048	(1.182)	8008	0.31100	100.2919	
5 Acenaphthylene	152		3.523	3.513	(0.975)	11404	0.23953	77.2425	
11 Phenanthrene	178		4.581	4.570	(1.002)	33295	0.87137	281.0011	
12 Anthracene	178		4.613	4.608	(1.009)	14403	0.36252	116.9064	
13 Carbazole	167		4.752	4.736	(1.040)	7334	0.19135	61.7073	
15 Fluoranthene	202		5.446	5.436	(1.192)	59894	1.35712	437.6450	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.612	5.601 (0.851)		54162	0.90148	290.7089
17 Benzo(a)anthracene	228	6.584	6.563 (0.998)		32146	0.62505	201.5654
19 Chrysene	228	6.611	6.595 (1.002)		52394	1.00417	323.8247
20 Benzo(b)fluoranthene	252	7.401	7.380 (0.962)		80464	1.46573	472.6682(M)
21 Benzo(k)fluoranthene	252	7.417	7.407 (0.965)		19722	0.31246	100.7634(QM)
22 Benzo(a)pyrene	252	7.626	7.610 (0.992)		35407	0.64833	209.0743
24 Indeno(1,2,3-cd)pyrene	276	8.448	8.427 (1.099)		27534	0.53396	172.1922(M)
25 Dibenzo(a,h)anthracene	278	8.475	8.454 (1.102)		7239	0.15088	48.6552
26 Benzo(g,h,i)perylene	276	8.667	8.646 (1.127)		28240	0.48933	157.7991

QC Flag Legend

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

Data File: 1AD29028.D

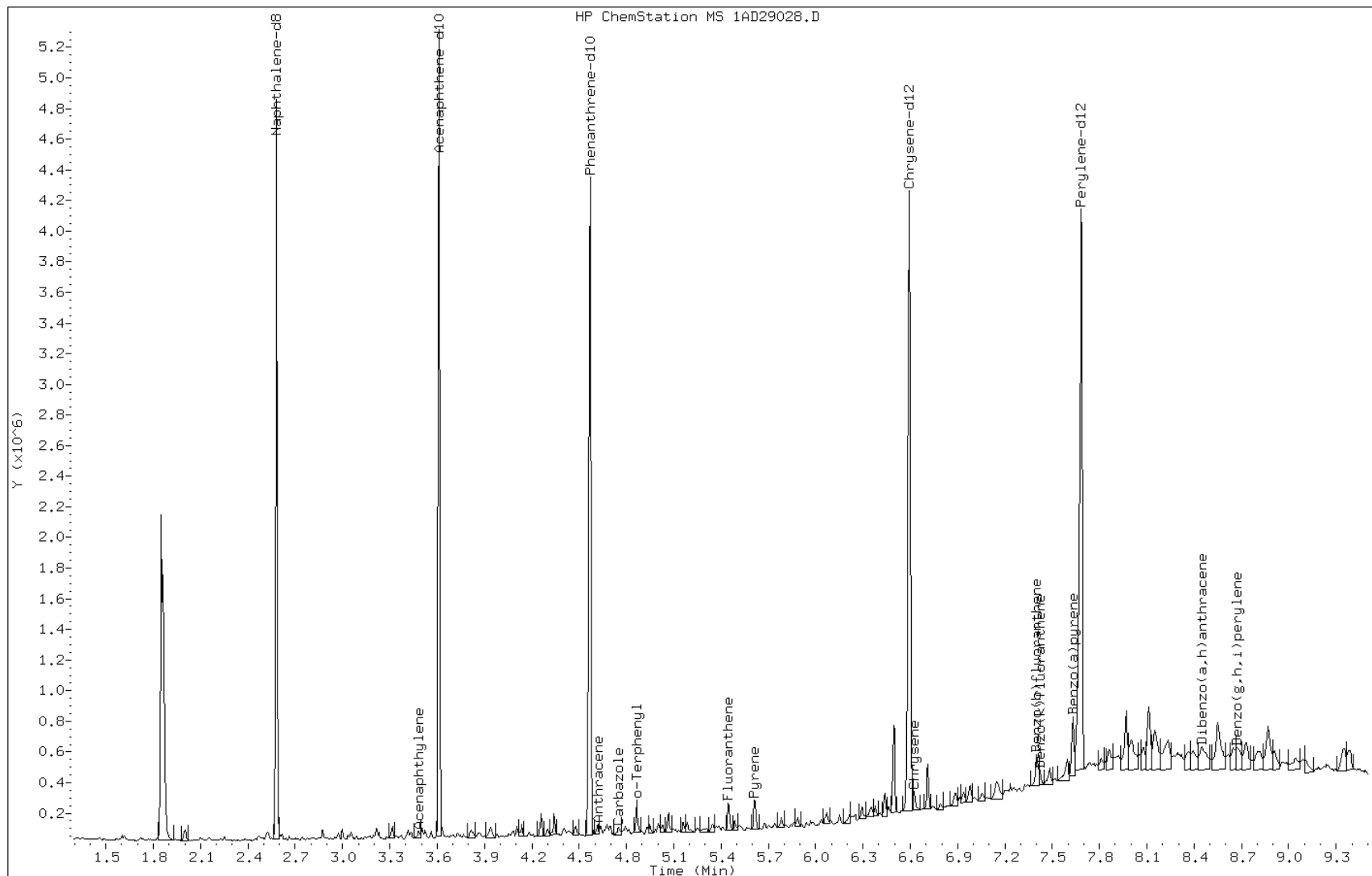
Date: 29-APR-2013 18:55

Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

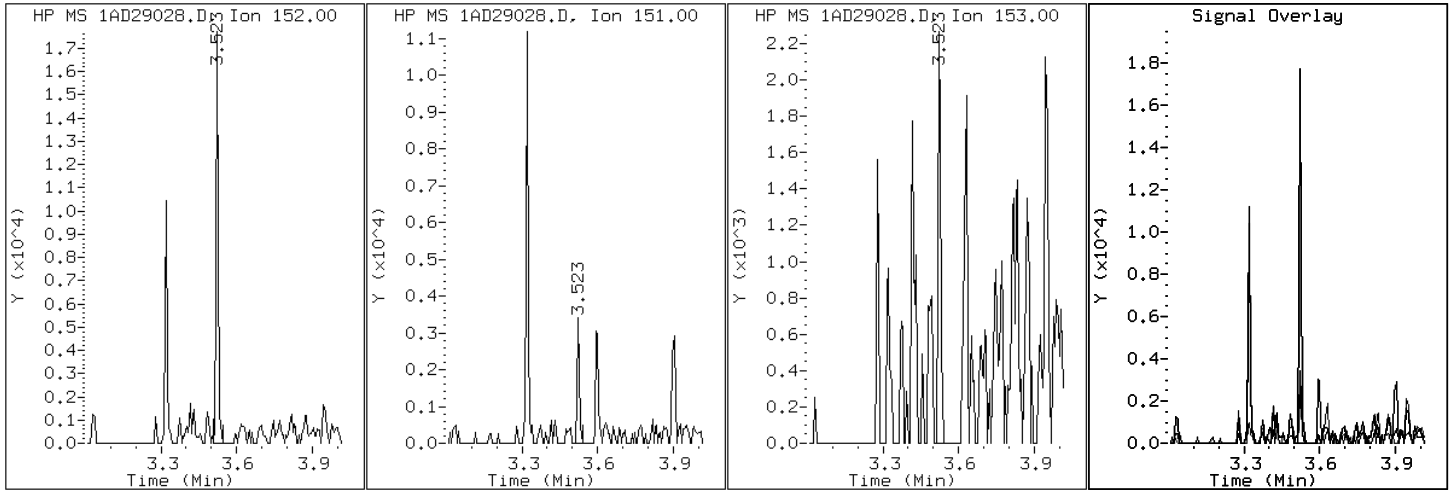
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

5 Acenaphthylene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

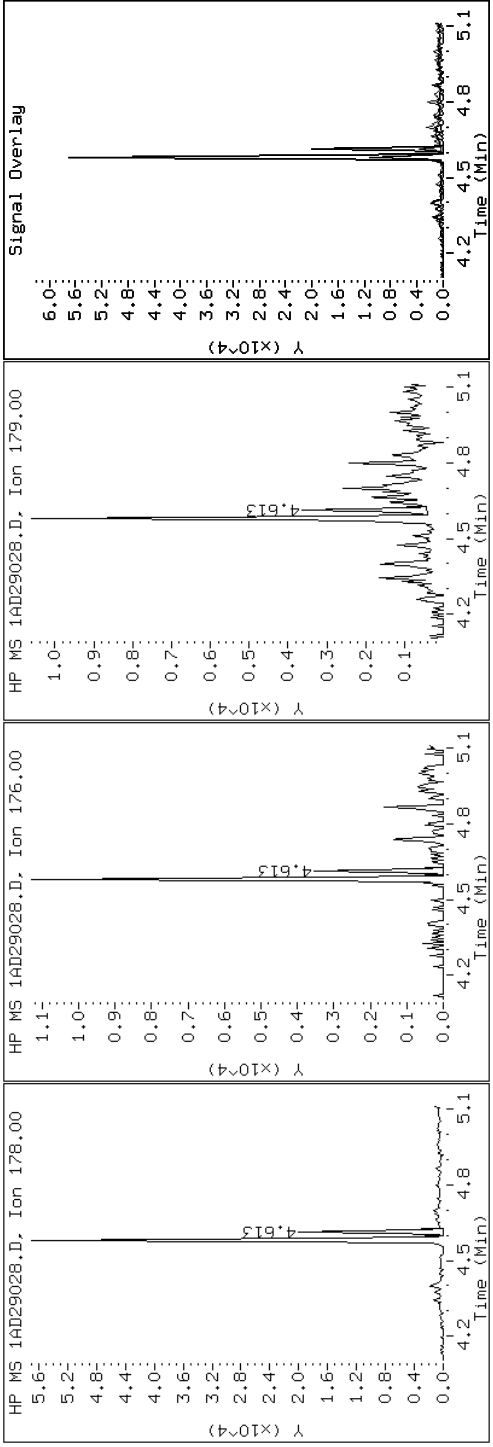
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

12 Anthracene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

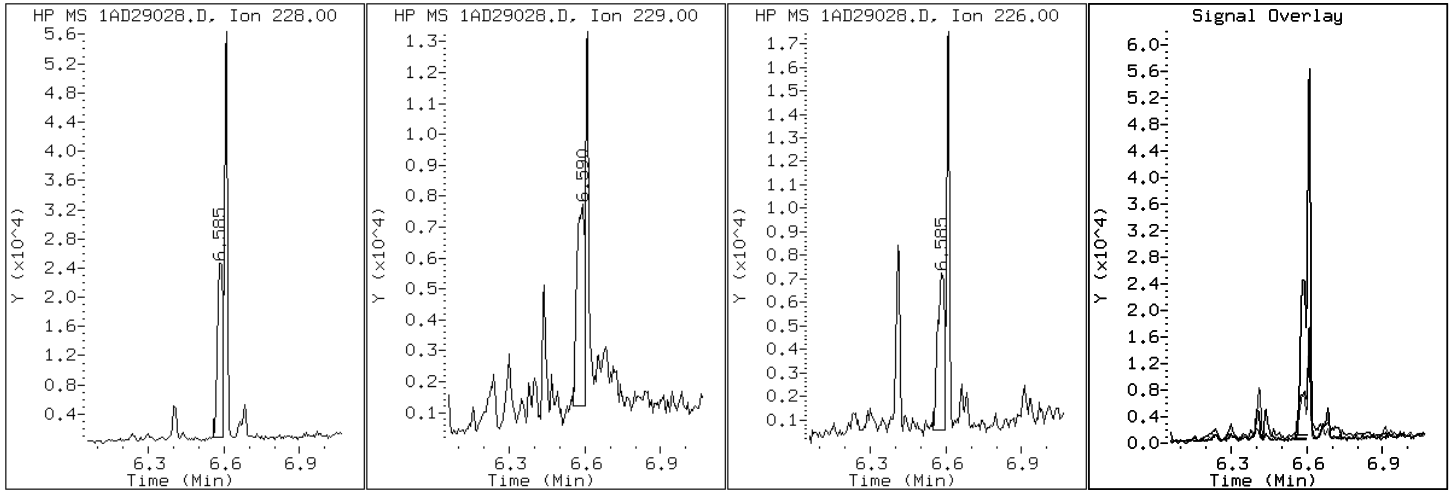
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

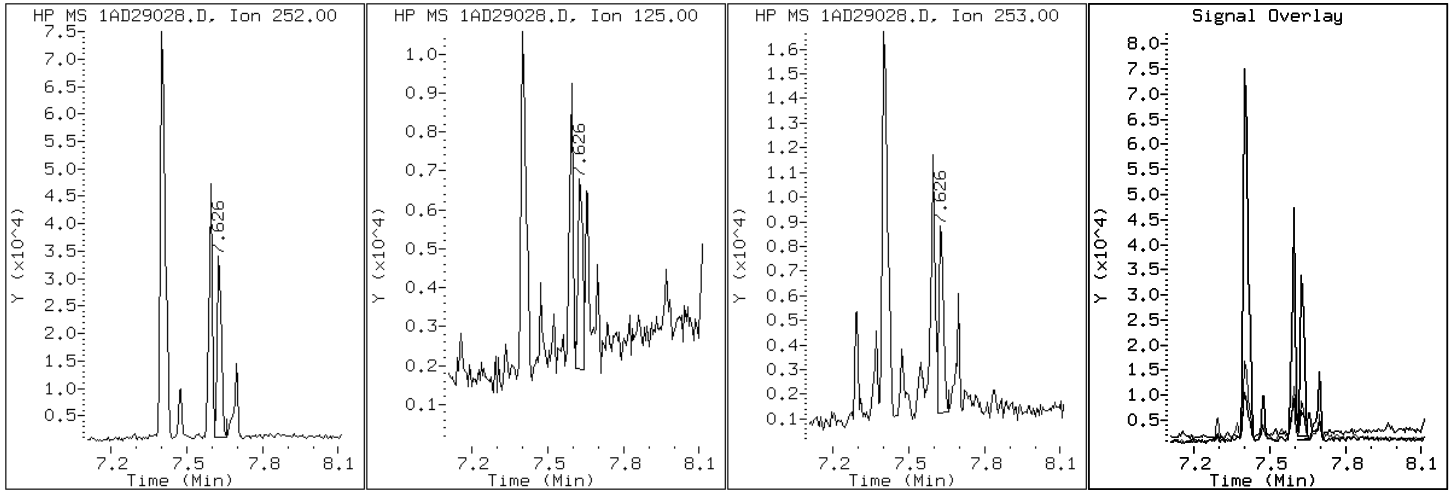
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

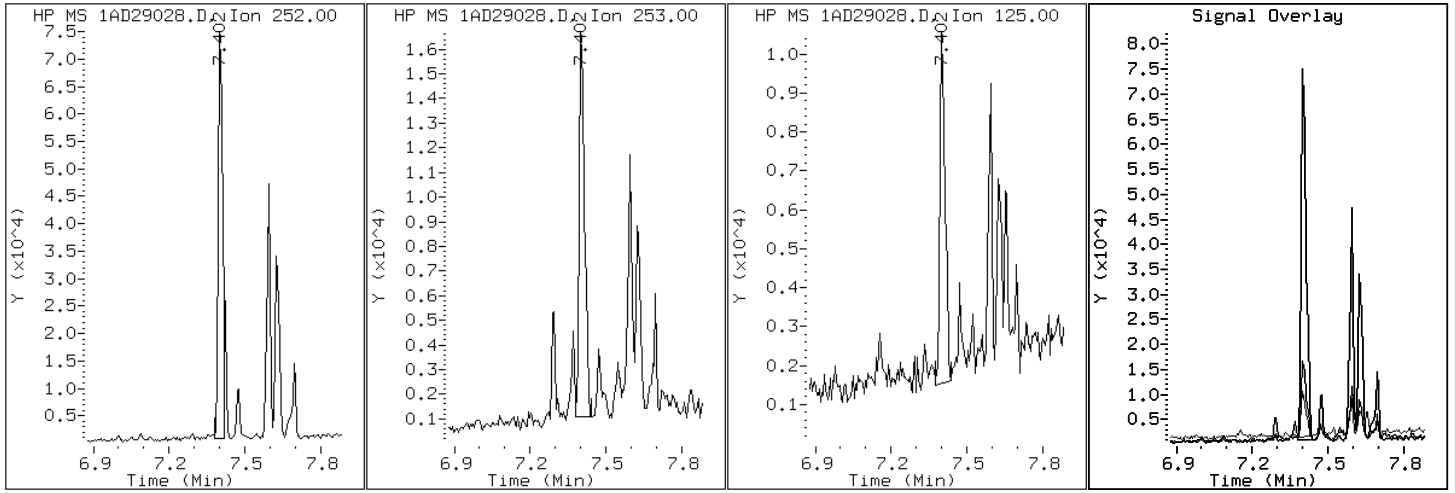
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

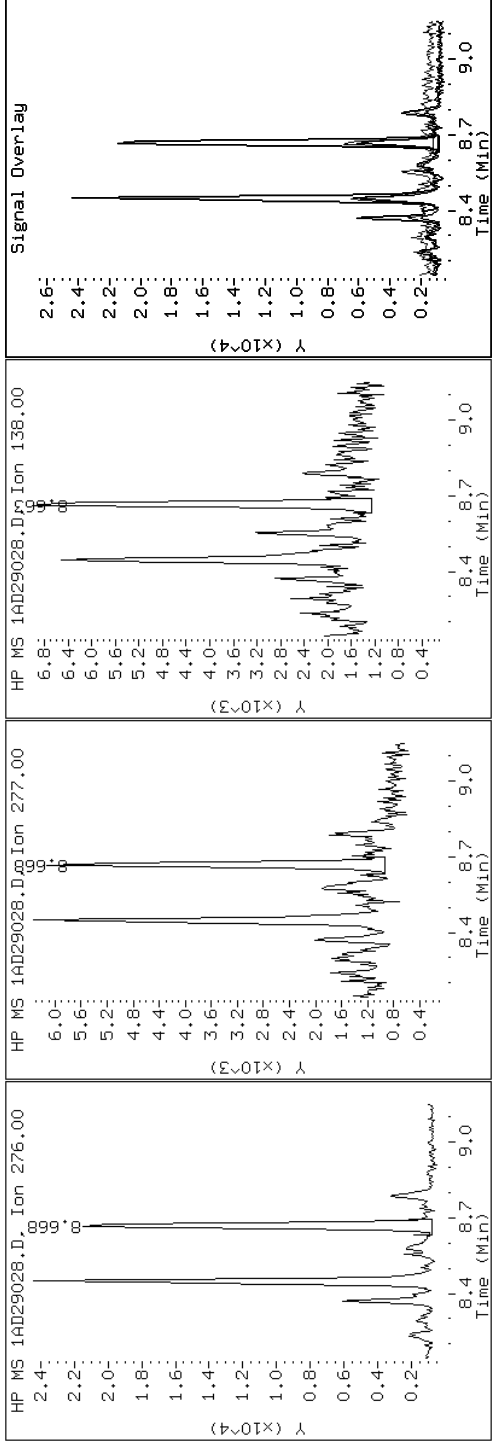
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

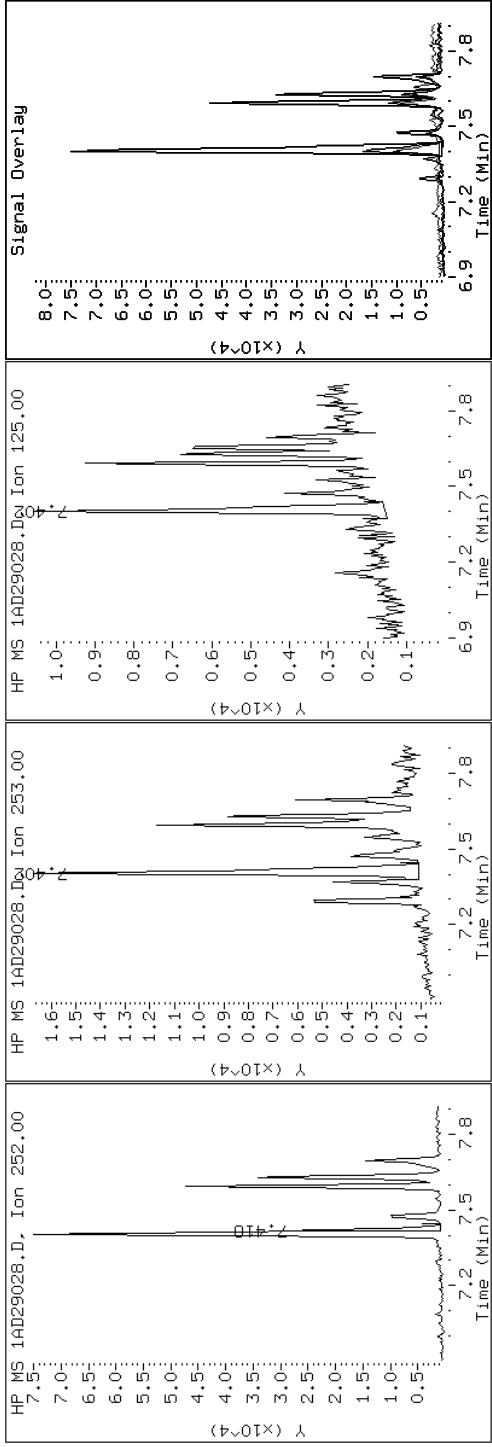
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

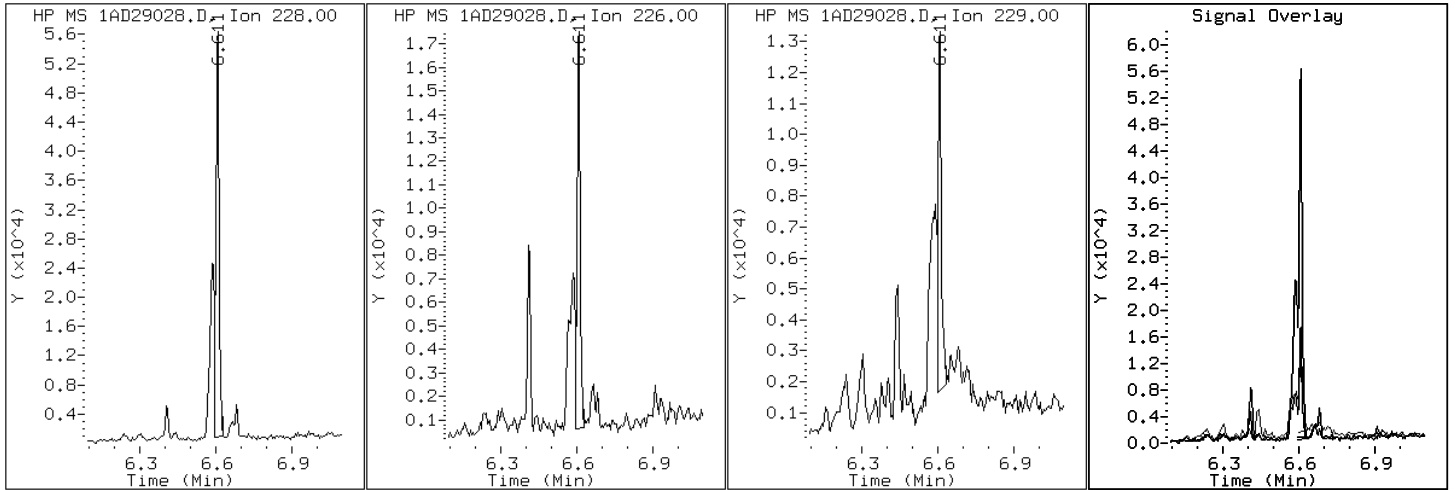
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

19 Chrysene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

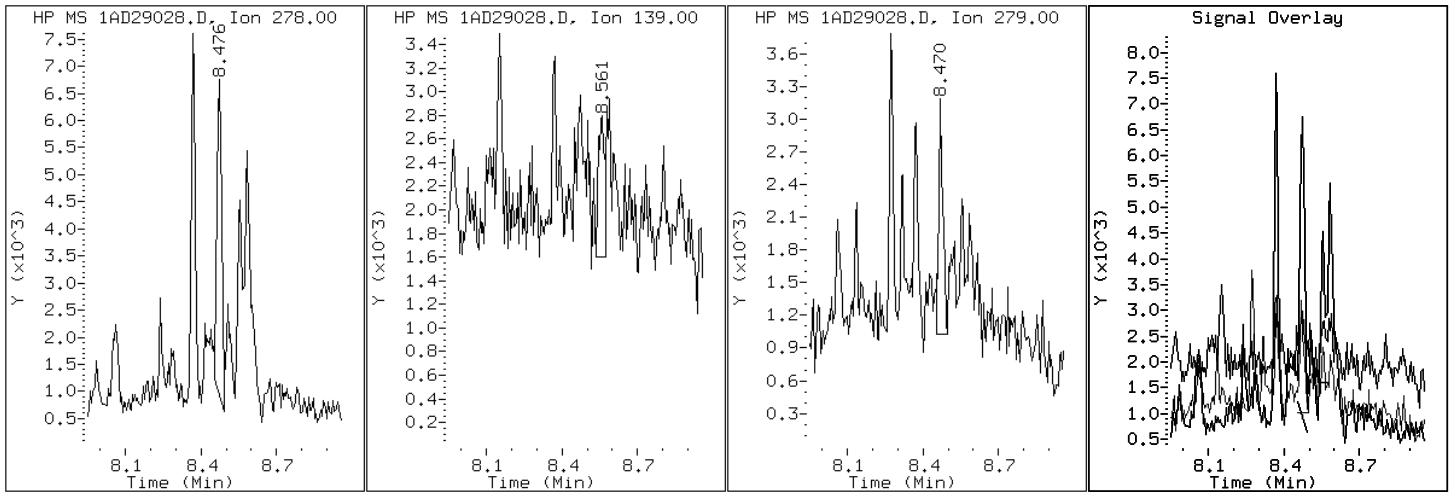
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

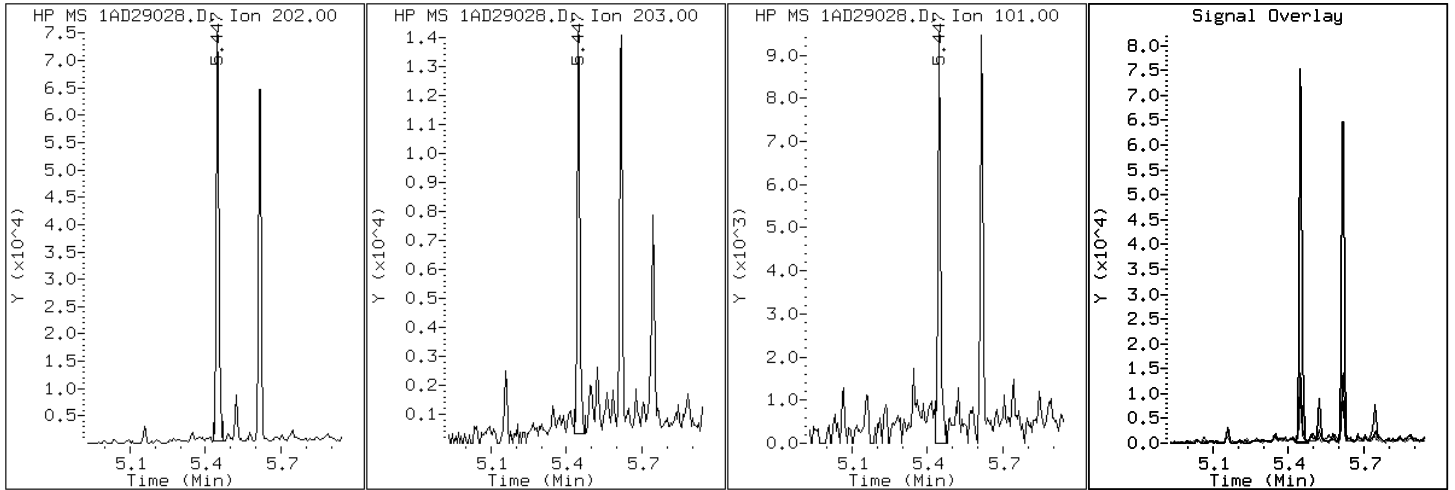
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

15 Fluoranthene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

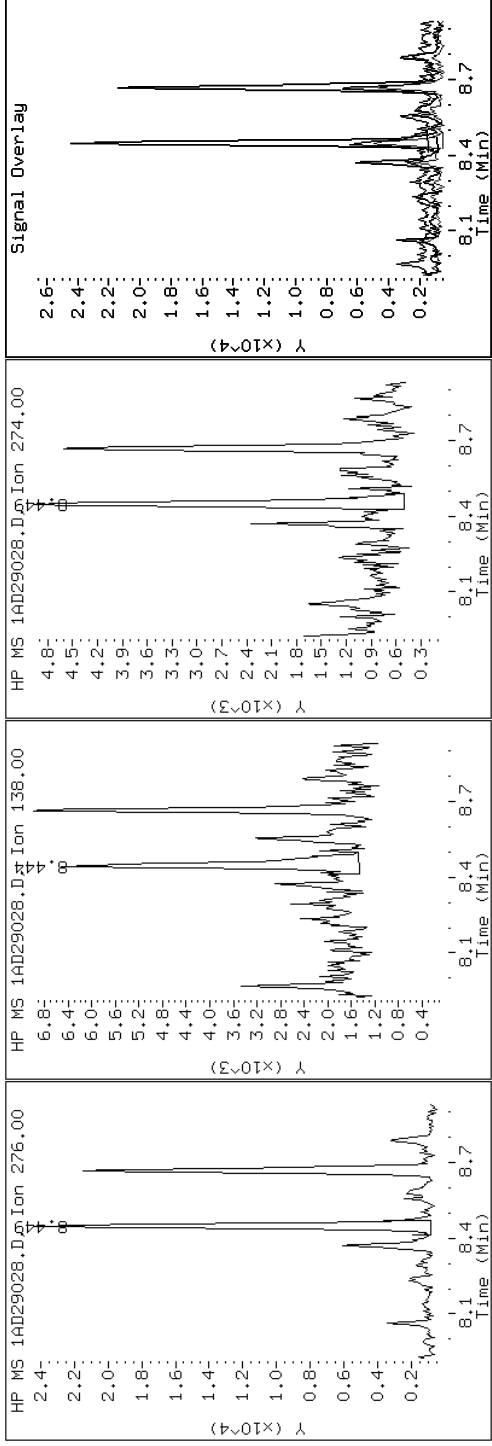
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

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



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

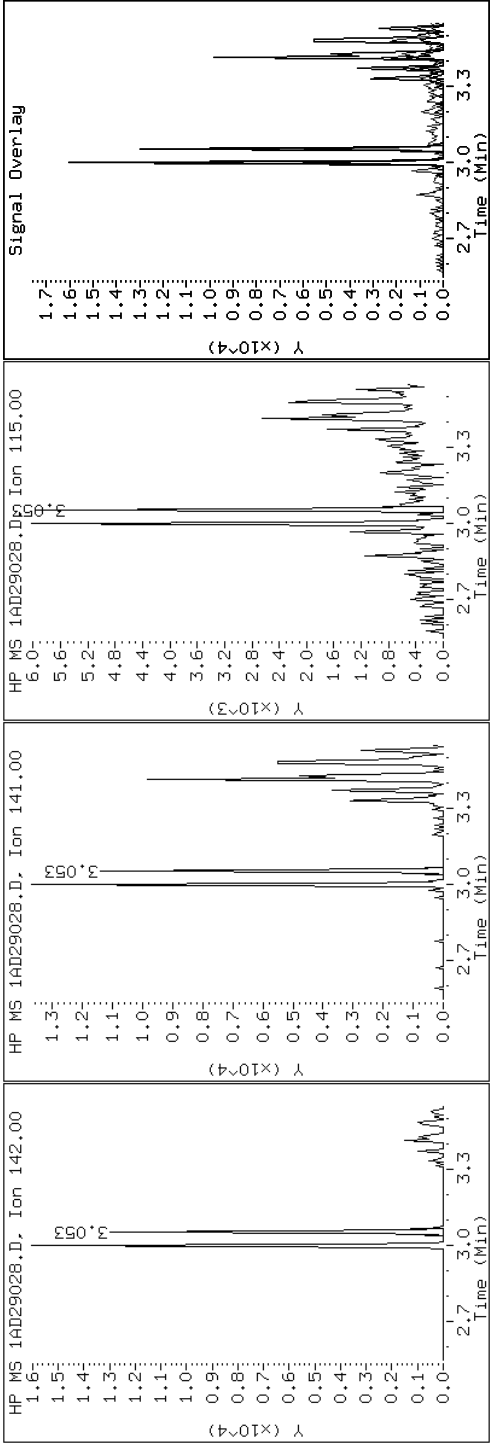
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

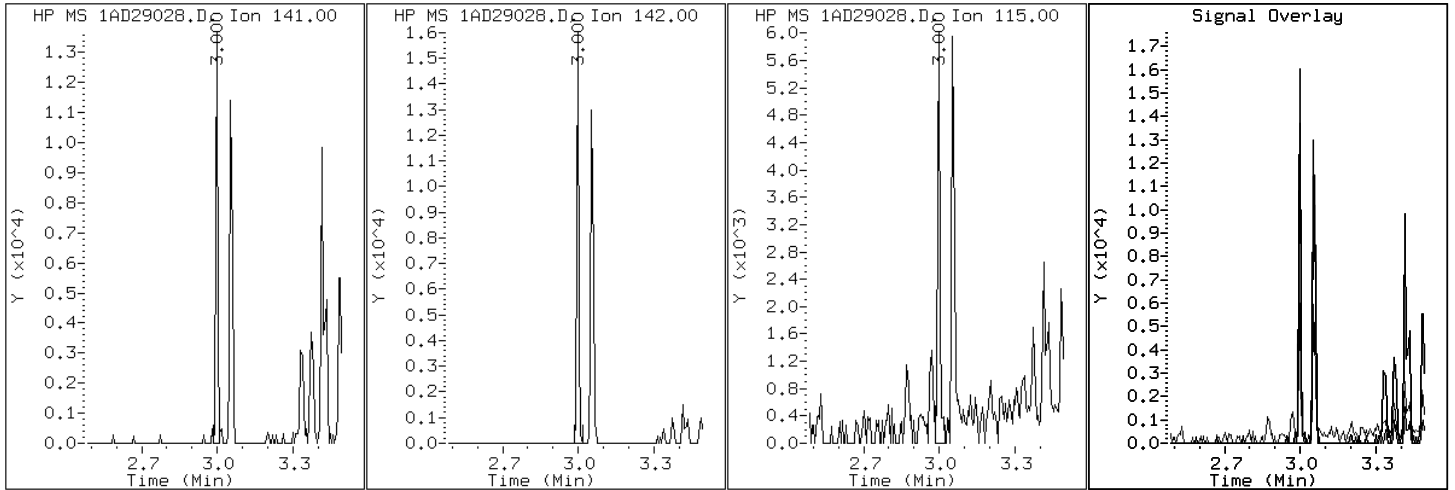
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

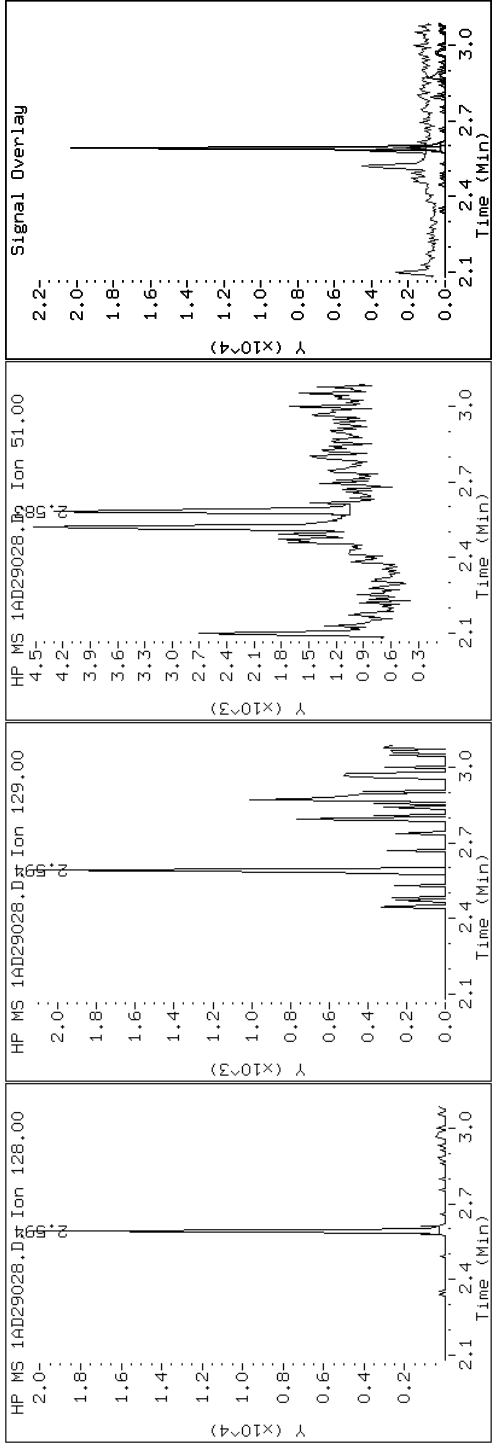
Client ID: CVI235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

2 Naphthalene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

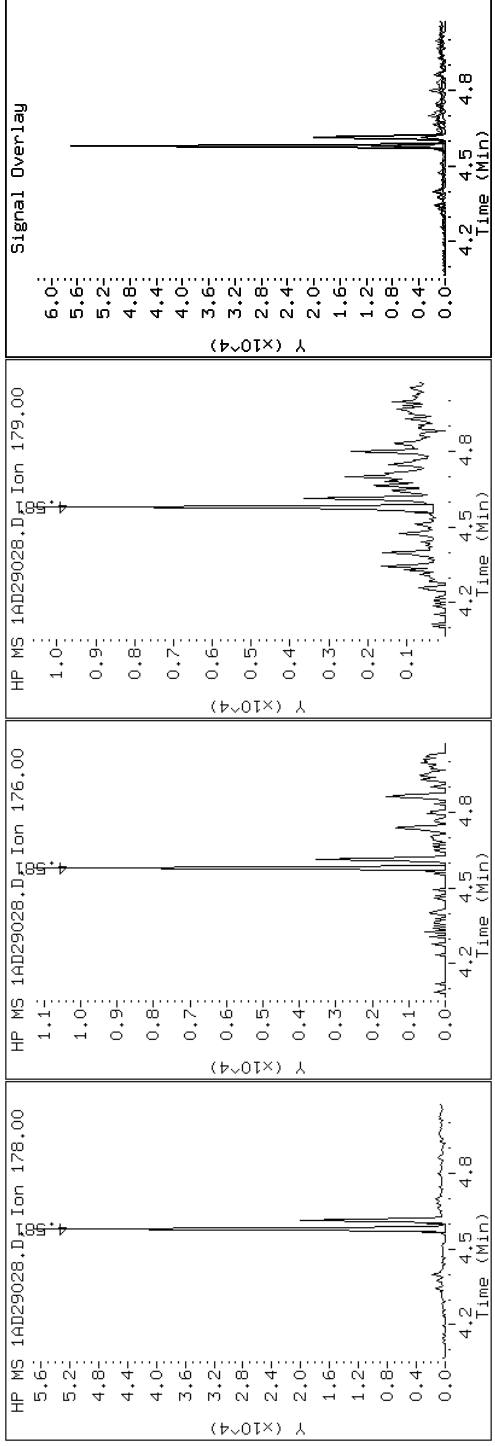
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

11 Phenanthrene



Data File: 1AD29028.D

Date: 29-APR-2013 18:55

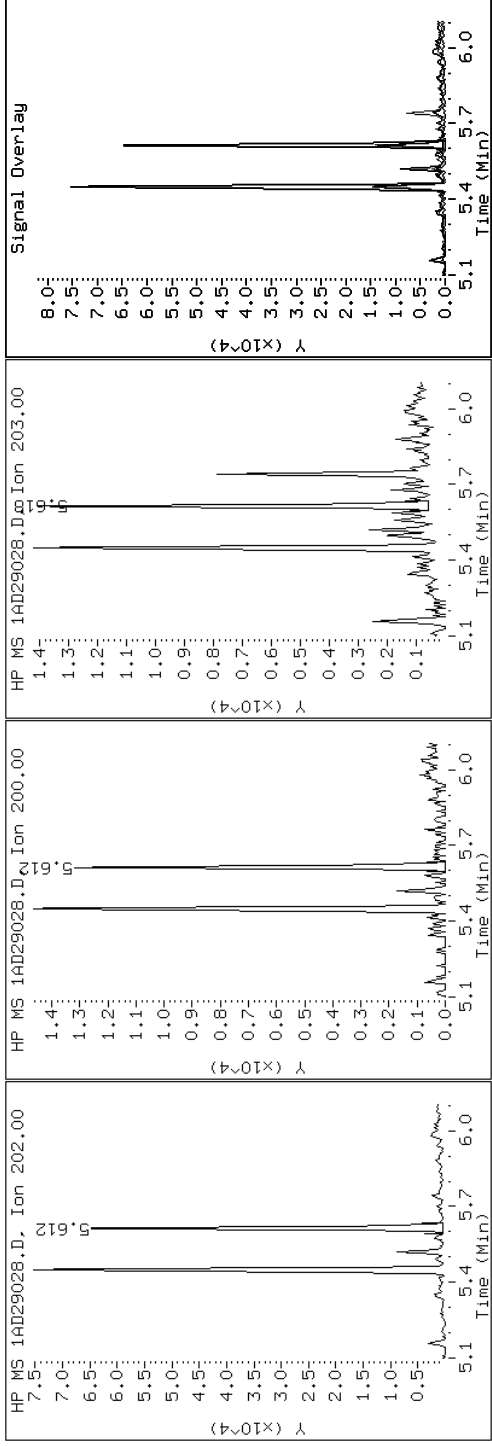
Client ID: CV1235D-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-26-a

Operator: SCC

16 Pyrene

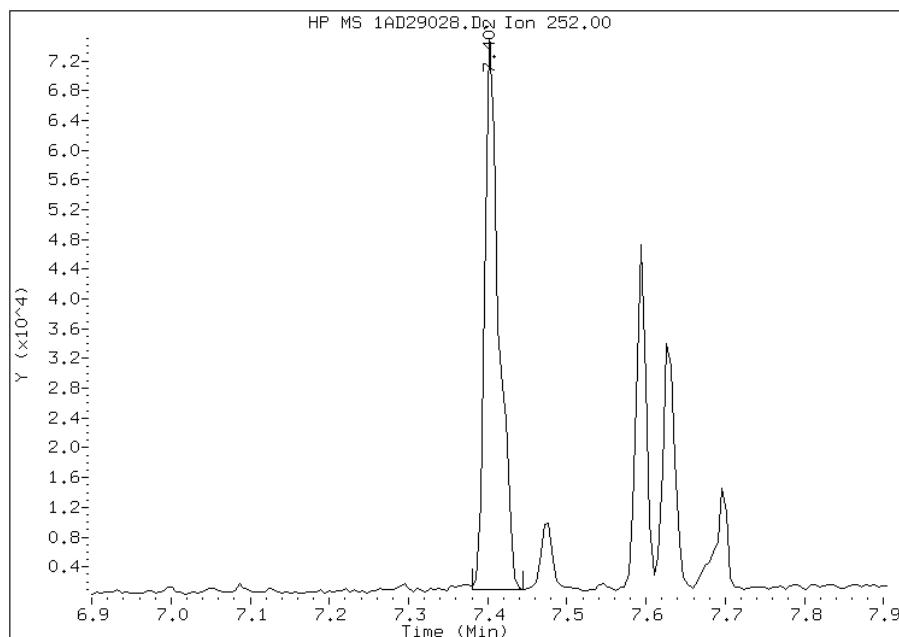


Manual Integration Report

Data File: 1AD29028.D
Inj. Date and Time: 29-APR-2013 18:55
Instrument ID: BSMA5973.i
Client ID: CV1235D-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/02/2013

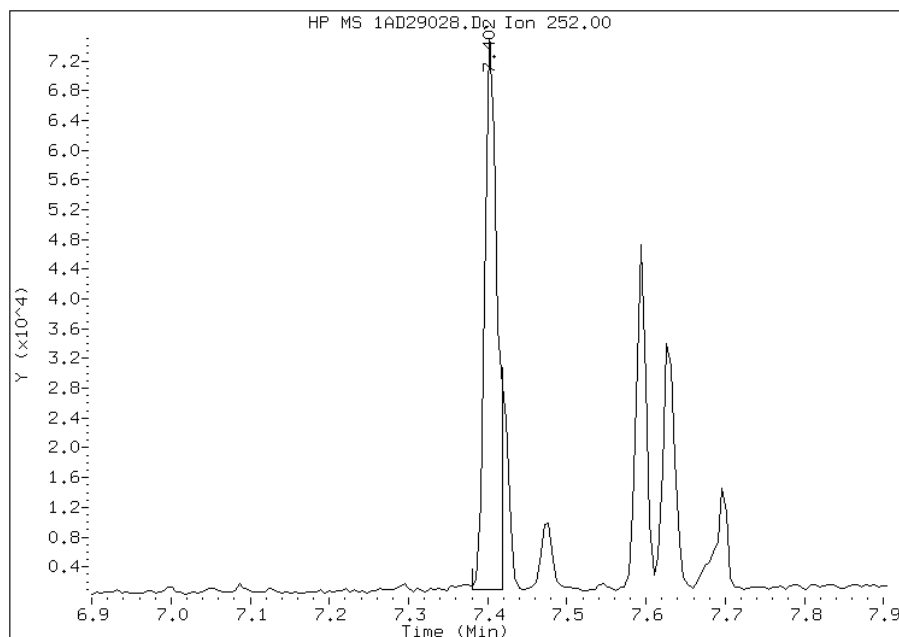
Processing Integration Results

RT: 7.40
Response: 91192
Amount: 2
Conc: 536



Manual Integration Results

RT: 7.40
Response: 80464
Amount: 1
Conc: 473



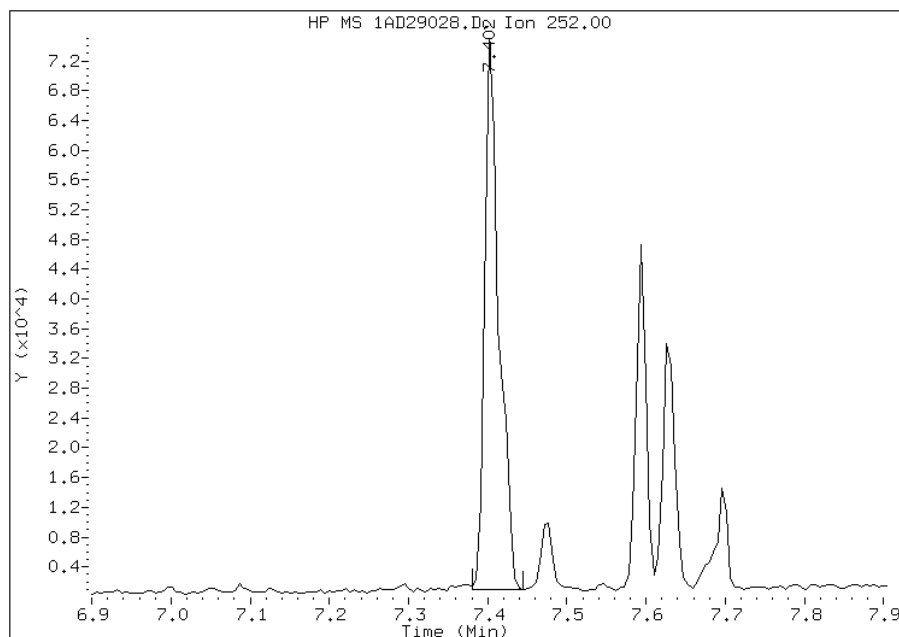
Manually Integrated By: cantins
Modification Date: 02-May-2013 13:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD29028.D
Inj. Date and Time: 29-APR-2013 18:55
Instrument ID: BSMA5973.i
Client ID: CV1235D-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/02/2013

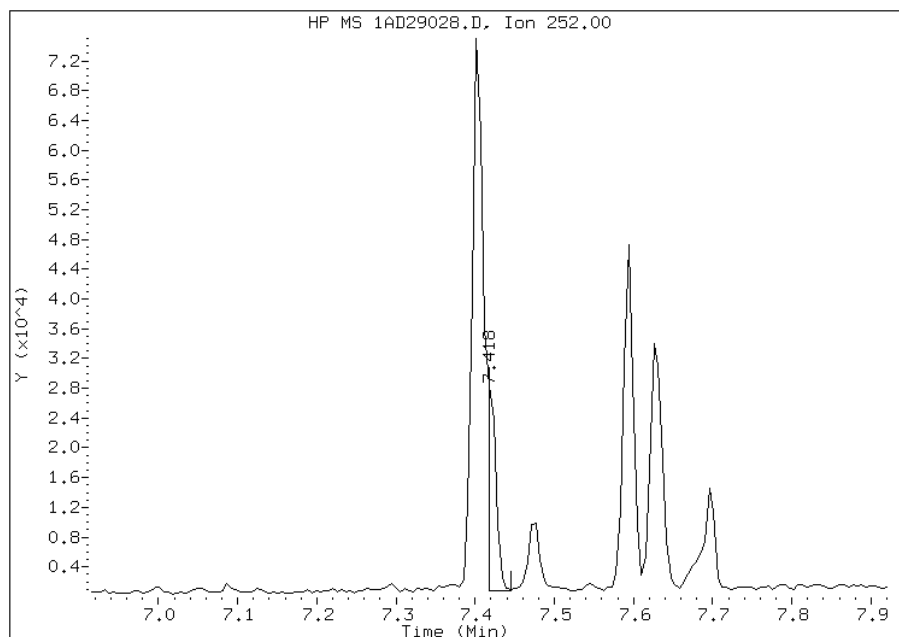
Processing Integration Results

RT: 7.40
Response: 91192
Amount: 1
Conc: 466



Manual Integration Results

RT: 7.42
Response: 19722
Amount: 0
Conc: 101



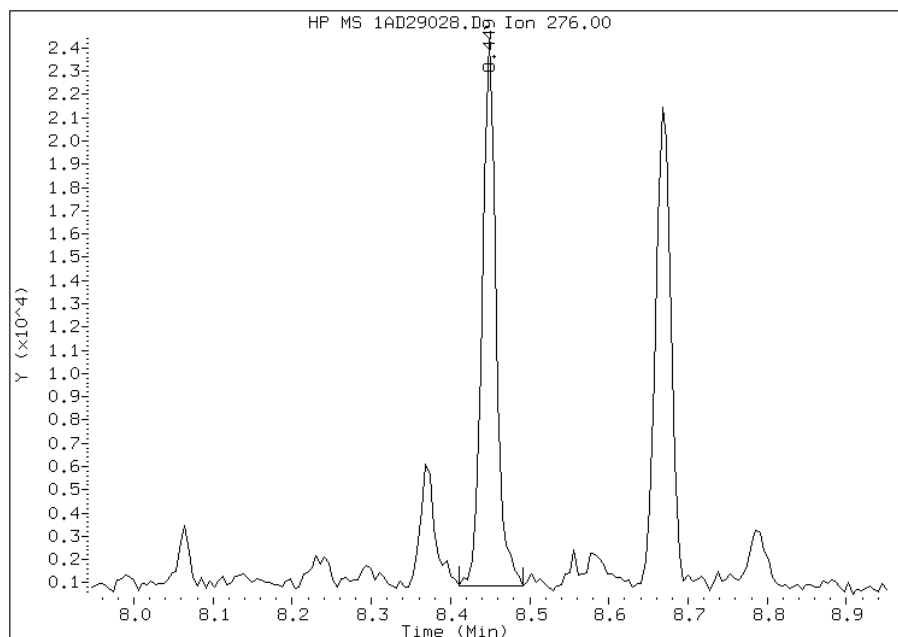
Manually Integrated By: cantins
Modification Date: 02-May-2013 13:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29028.D
Inj. Date and Time: 29-APR-2013 18:55
Instrument ID: BSMA5973.i
Client ID: CV1235D-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

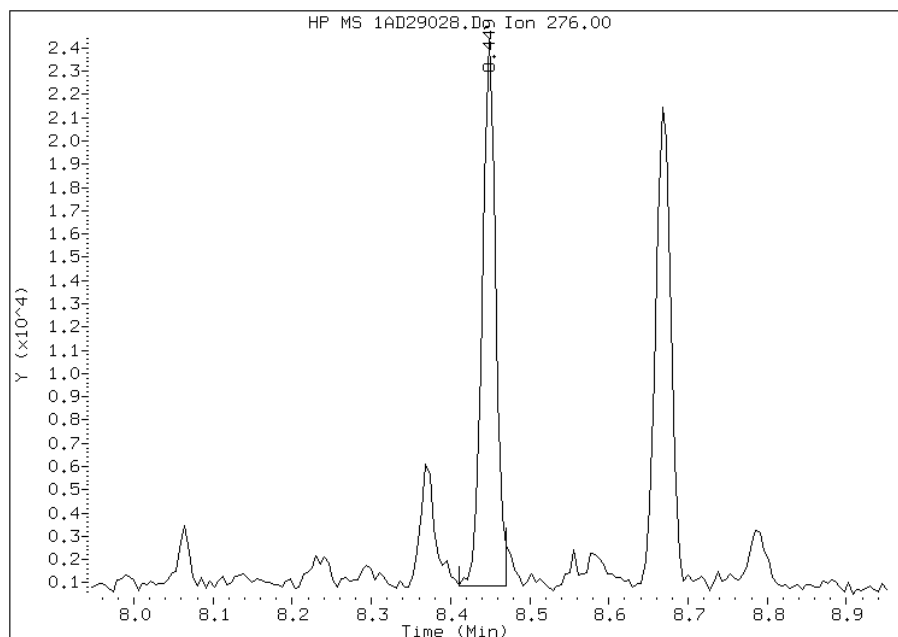
Processing Integration Results

RT: 8.45
Response: 28287
Amount: 1
Conc: 177



Manual Integration Results

RT: 8.45
Response: 27534
Amount: 1
Conc: 172



Manually Integrated By: cantins
Modification Date: 02-May-2013 13:39
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV1235D-CSD Lab Sample ID: 680-89695-27
 Matrix: Solid Lab File ID: 1AE01015.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 13:40
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27
 Sample wt/vol: 14.99(g) Date Analyzed: 05/01/2013 16:33
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 15.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	94		47	5.9
120-12-7	Anthracene	120		9.9	5.0
56-55-3	Benzo[a]anthracene	320		9.4	4.6
50-32-8	Benzo[a]pyrene	460		12	6.1
205-99-2	Benzo[b]fluoranthene	910		14	7.2
191-24-2	Benzo[g,h,i]perylene	330		24	5.2
207-08-9	Benzo[k]fluoranthene	250		9.4	4.2
218-01-9	Chrysene	390		11	5.3
53-70-3	Dibenz(a,h)anthracene	130		24	4.8
206-44-0	Fluoranthene	390		24	4.7
86-73-7	Fluorene	15	J	24	4.8
193-39-5	Indeno[1,2,3-cd]pyrene	350		24	8.4
90-12-0	1-Methylnaphthalene	84		47	5.2
91-57-6	2-Methylnaphthalene	110		47	8.4
91-20-3	Naphthalene	150		47	5.2
85-01-8	Phenanthrene	180		9.4	4.6
129-00-0	Pyrene	380		24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01015.D
 Lab Smp Id: 680-89695-A-27-A Client Smp ID: CV1235D-CSD
 Inj Date : 01-MAY-2013 16:33
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-27-a
 Misc Info : 680-89695-A-27-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.990	Weight Extracted
M	15.132	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.564	2.563	(1.000)	1443703	40.0000		
* 6 Acenaphthene-d10	164		3.595	3.594	(1.000)	742158	40.0000		
* 10 Phenanthrene-d10	188		4.546	4.544	(1.000)	1190294	40.0000		
\$ 14 o-Terphenyl	230		4.850	4.844	(1.067)	98908	5.08029	399.3383	
* 18 Chrysene-d12	240		6.581	6.574	(1.000)	1091399	40.0000		
* 23 Perylene-d12	264		7.676	7.659	(1.000)	1433369	40.0000		
2 Naphthalene	128		2.575	2.573	(1.004)	67628	1.87389	147.2978	
3 2-Methylnaphthalene	141		2.981	2.979	(1.162)	28286	1.36707	107.4590	
4 1-Methylnaphthalene	142		3.034	3.033	(1.183)	24386	1.06378	83.6188	
5 Acenaphthylene	152		3.504	3.503	(0.975)	51792	1.19409	93.8615	
9 Fluorene	166		3.926	3.925	(1.092)	5266	0.19242	15.1254(Q)	
11 Phenanthrene	178		4.562	4.560	(1.004)	79708	2.31169	181.7110	
12 Anthracene	178		4.594	4.593	(1.011)	54290	1.51427	119.0298	
13 Carbazole	167		4.727	4.726	(1.040)	20013	0.57864	45.4840	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.427	5.426 (1.194)		195118	4.89930	385.1114
16 Pyrene	202	5.598	5.592 (0.851)		201208	4.83236	379.8492
17 Benzo(a)anthracene	228	6.570	6.558 (0.998)		143059	4.01379	315.5053
19 Chrysene	228	6.592	6.590 (1.002)		180290	4.98598	391.9245
20 Benzo(b)fluoranthene	252	7.398	7.381 (0.964)		504924	11.6031	912.0676(M)
21 Benzo(k)fluoranthene	252	7.409	7.402 (0.965)		158422	3.16637	248.8937(QM)
22 Benzo(a)pyrene	252	7.623	7.605 (0.993)		251620	5.81234	456.8809
24 Indeno(1,2,3-cd)pyrene	276	8.451	8.423 (1.101)		183121	4.47998	352.1506(M)
25 Dibenzo(a,h)anthracene	278	8.472	8.450 (1.104)		64581	1.69805	133.4756
26 Benzo(g,h,i)perylene	276	8.675	8.642 (1.130)		190922	4.17340	328.0516

QC Flag Legend

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

Data File: 1AE01015.D

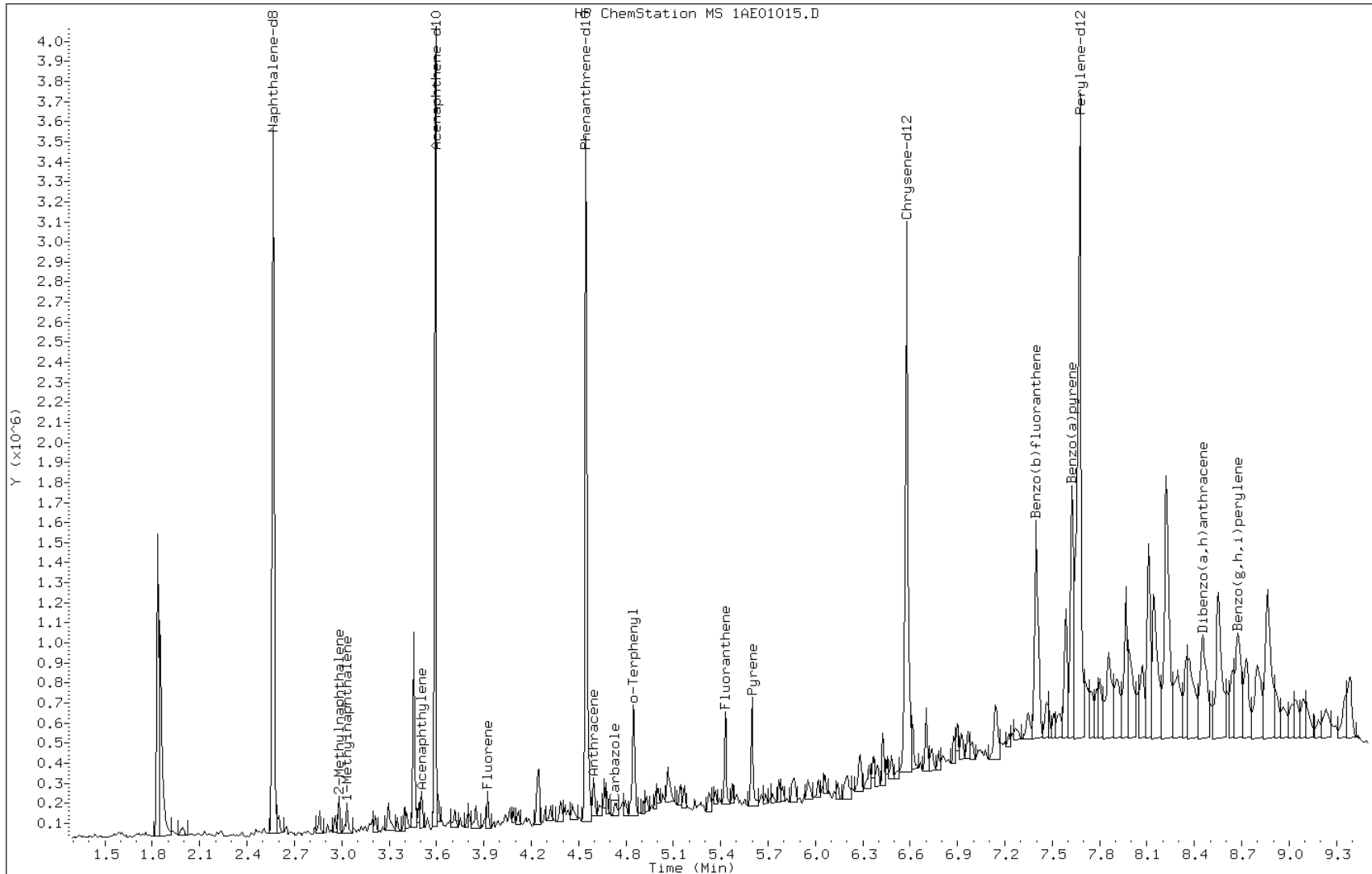
Date: 01-MAY-2013 16:33

Client ID: CV1235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

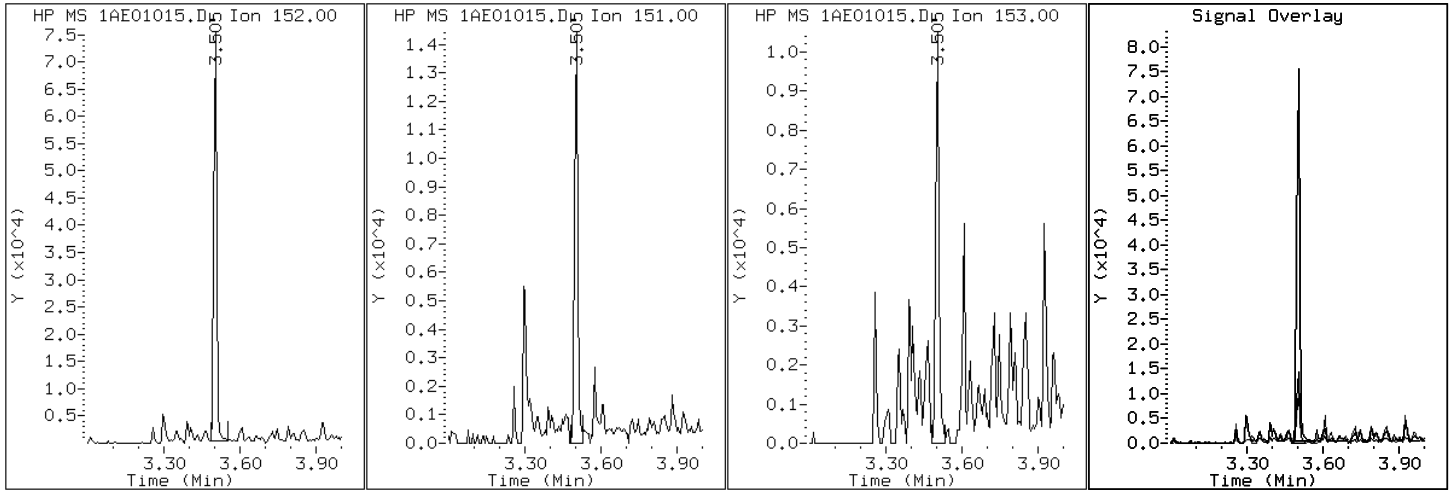
Client ID: CV1235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

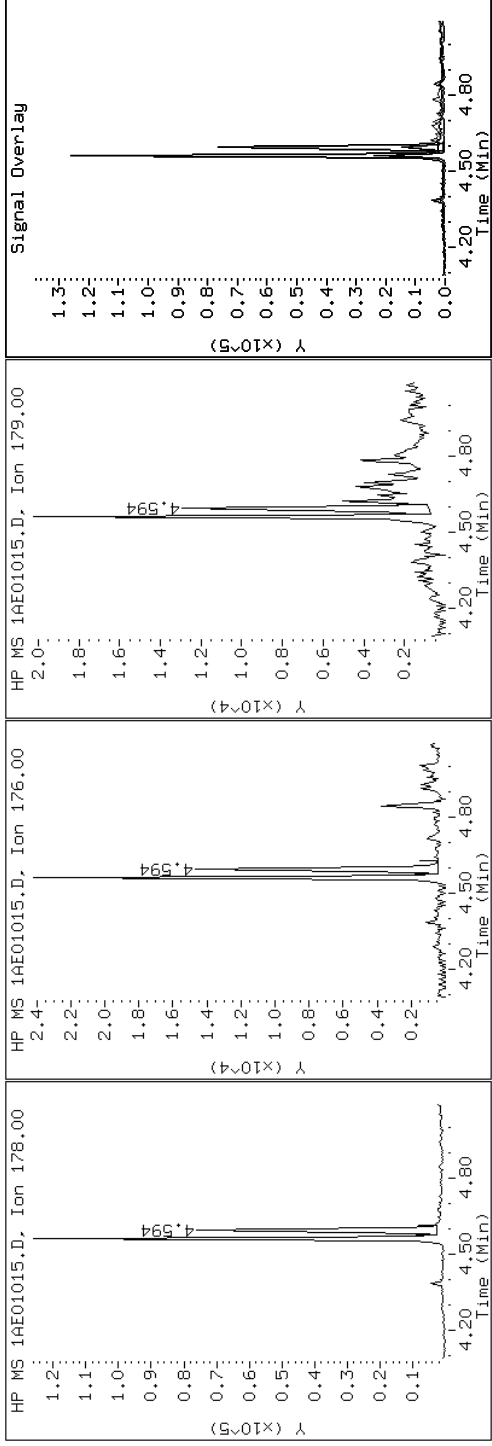
Client ID: CVI235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

12 Anthracene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

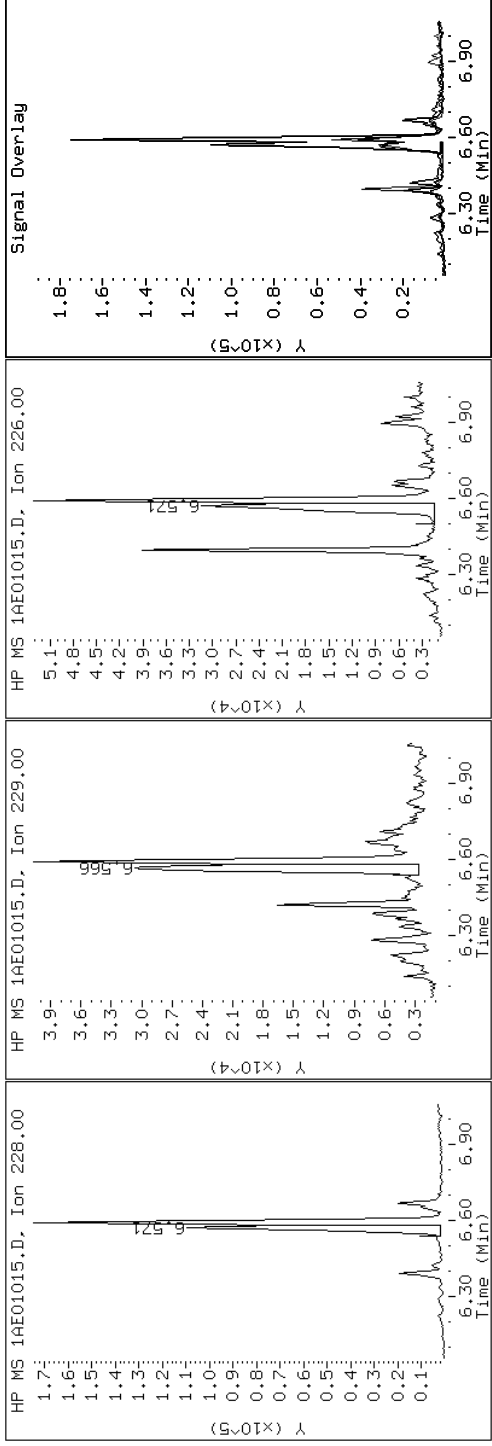
Client ID: CVI235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

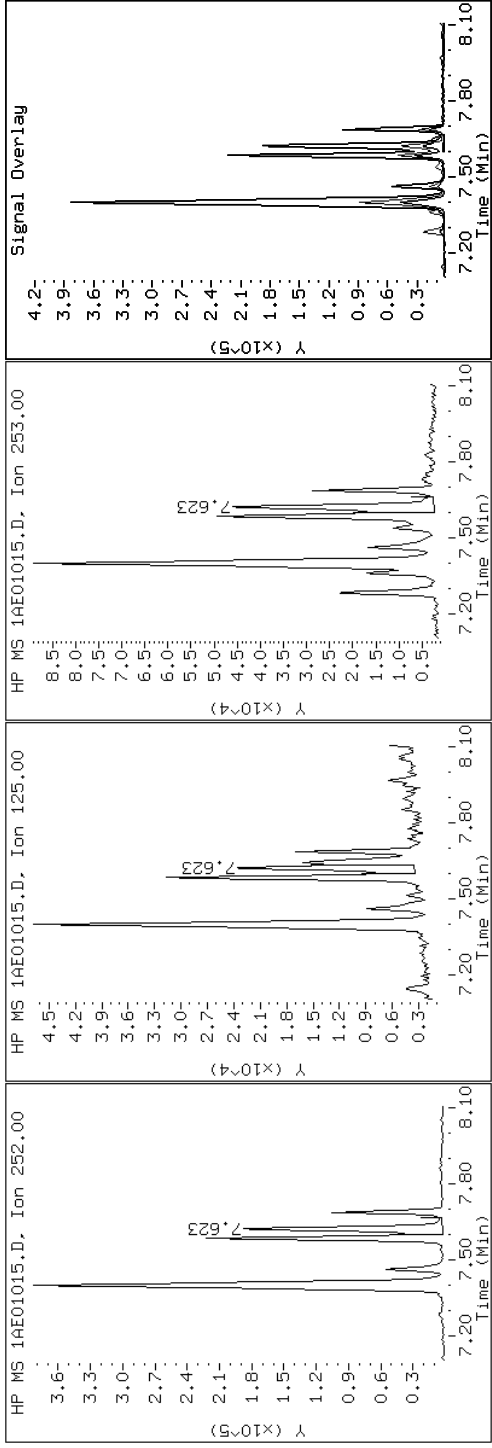
Client ID: CVI235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

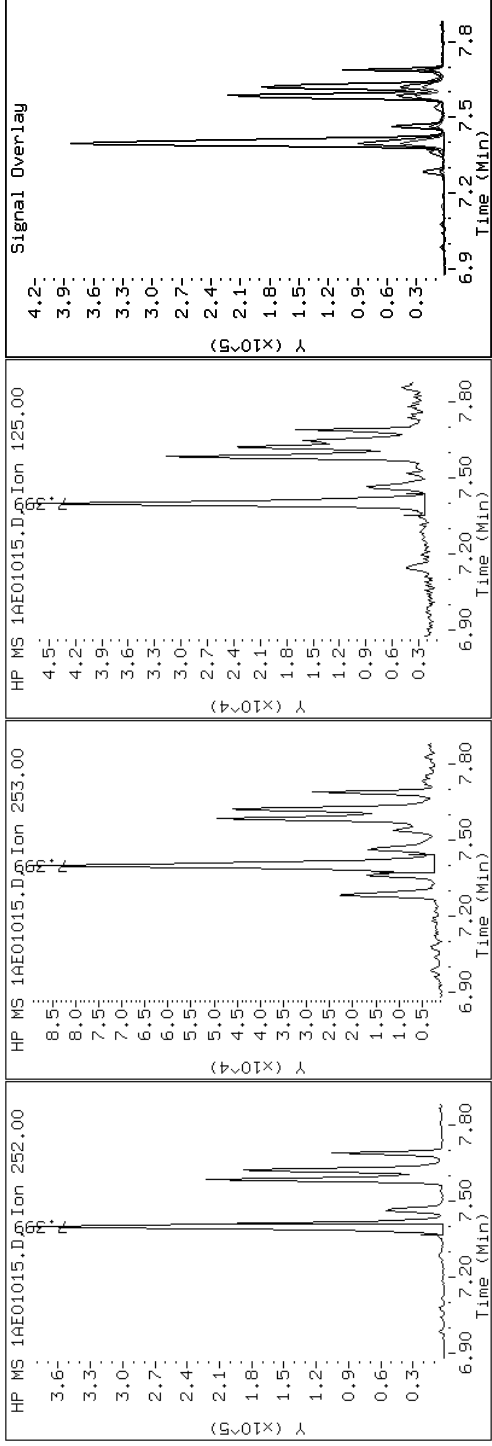
Client ID: CVI235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

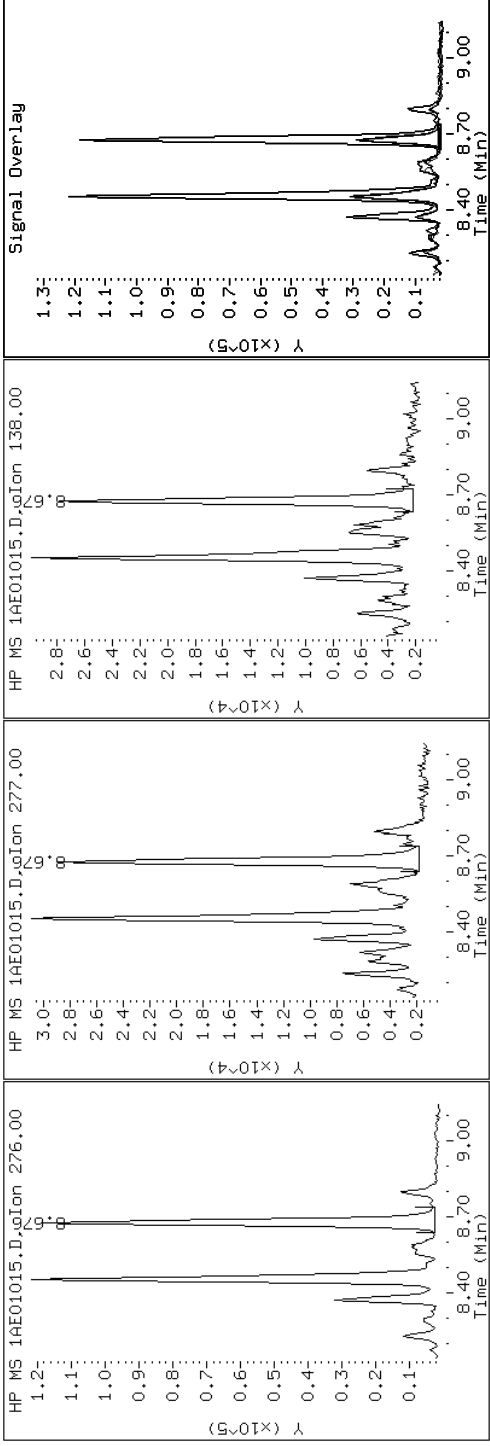
Client ID: CV1235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

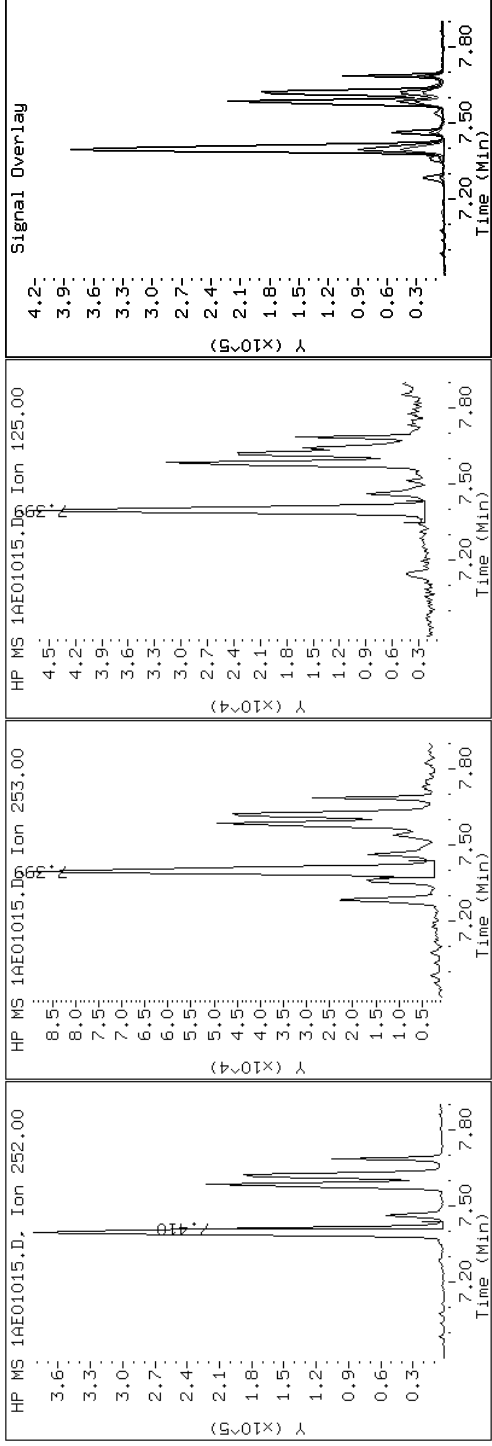
Client ID: CVI235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

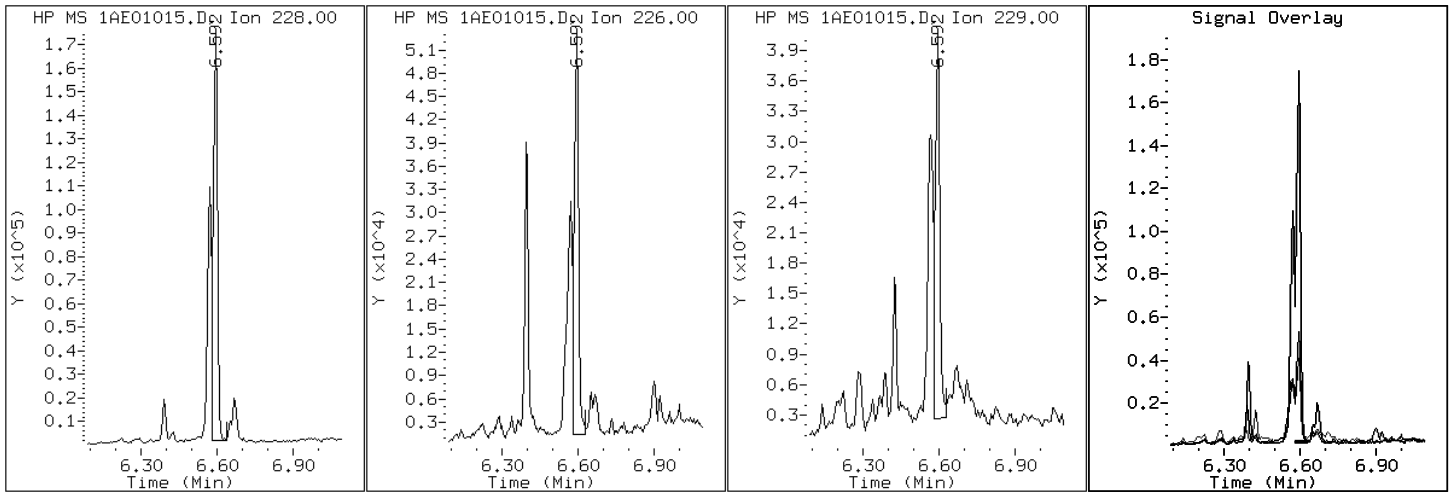
Client ID: CV1235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

19 Chrysene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

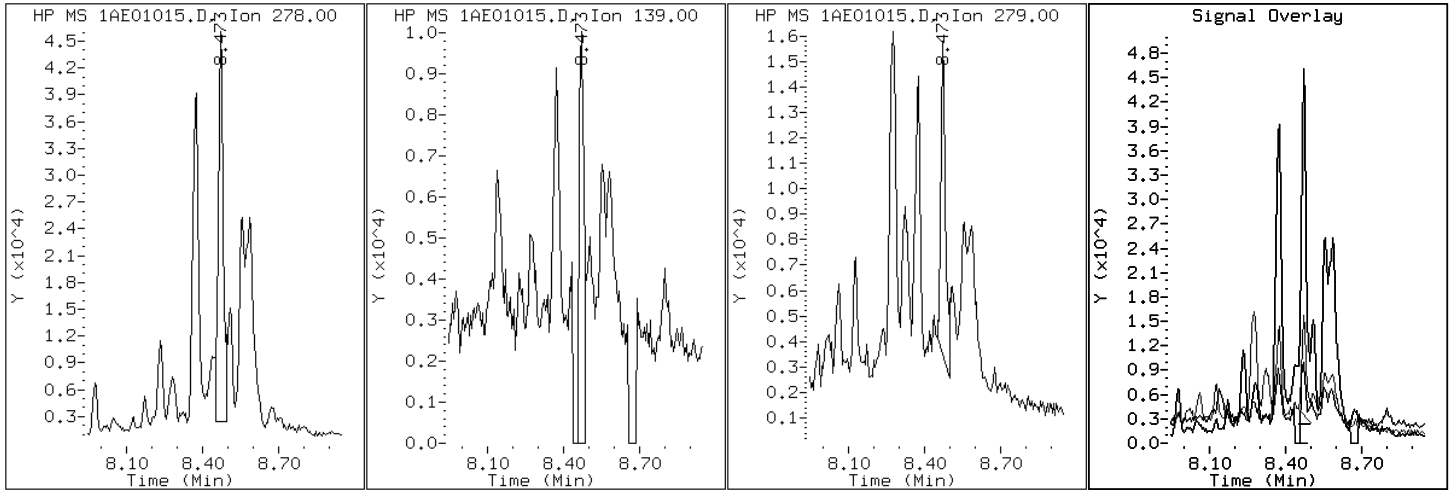
Client ID: CV1235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

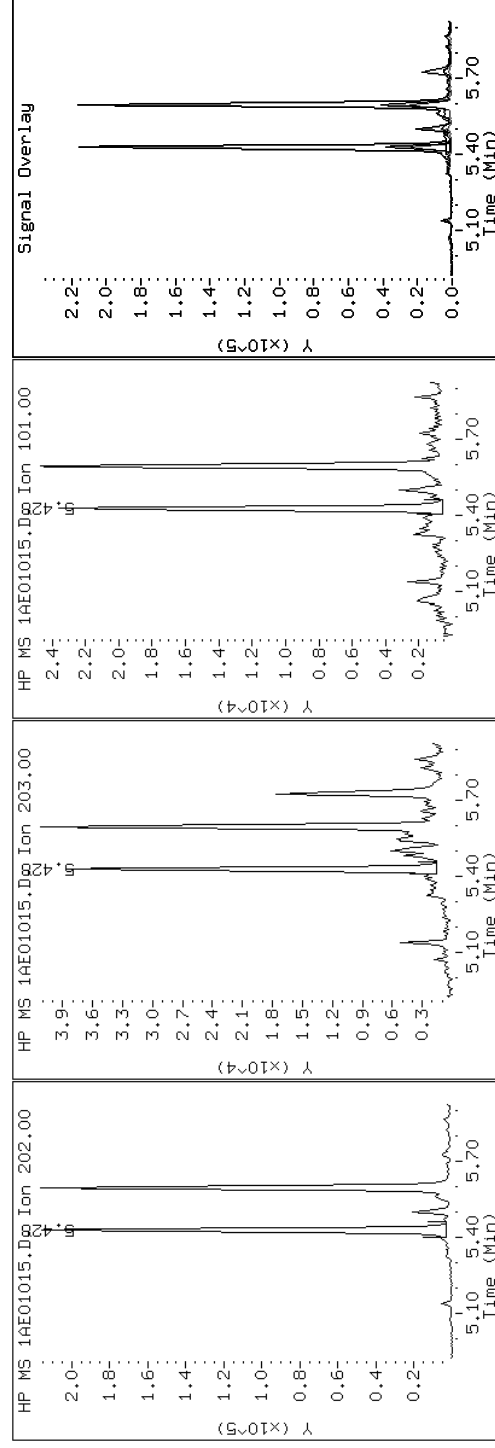
Client ID: CV1235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

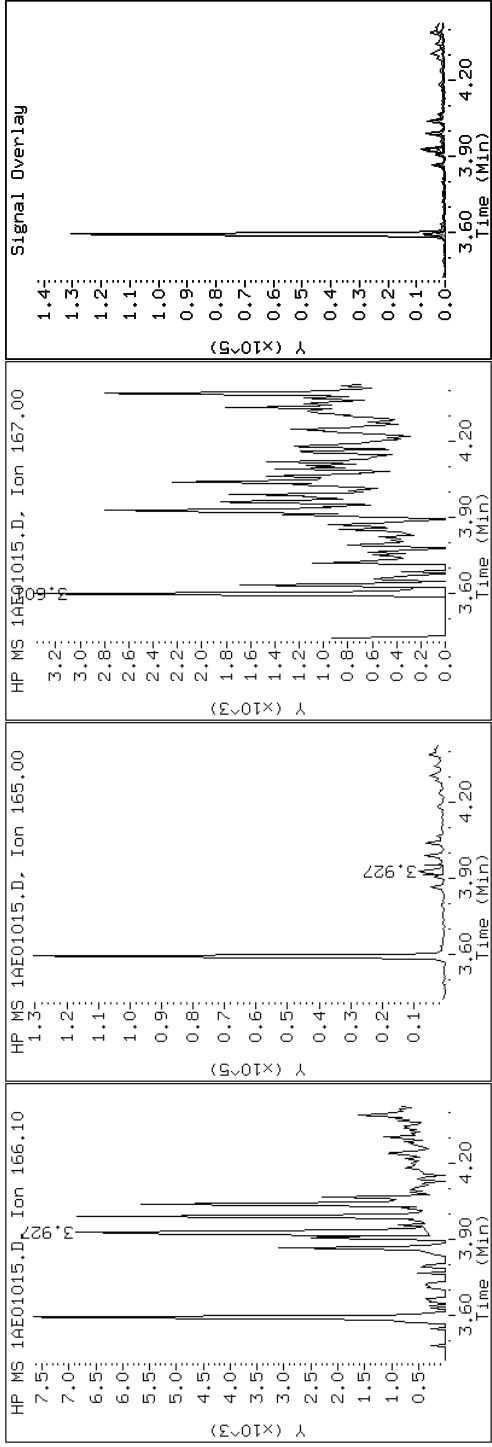
Client ID: CV1235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

9 Fluorene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

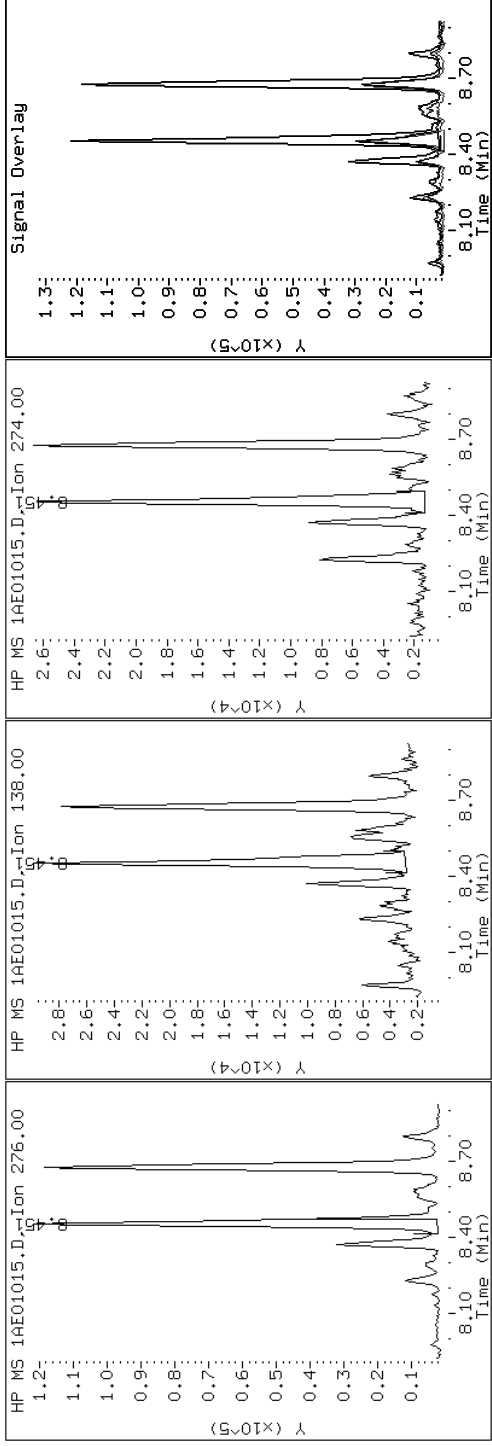
Client ID: CVI235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

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



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

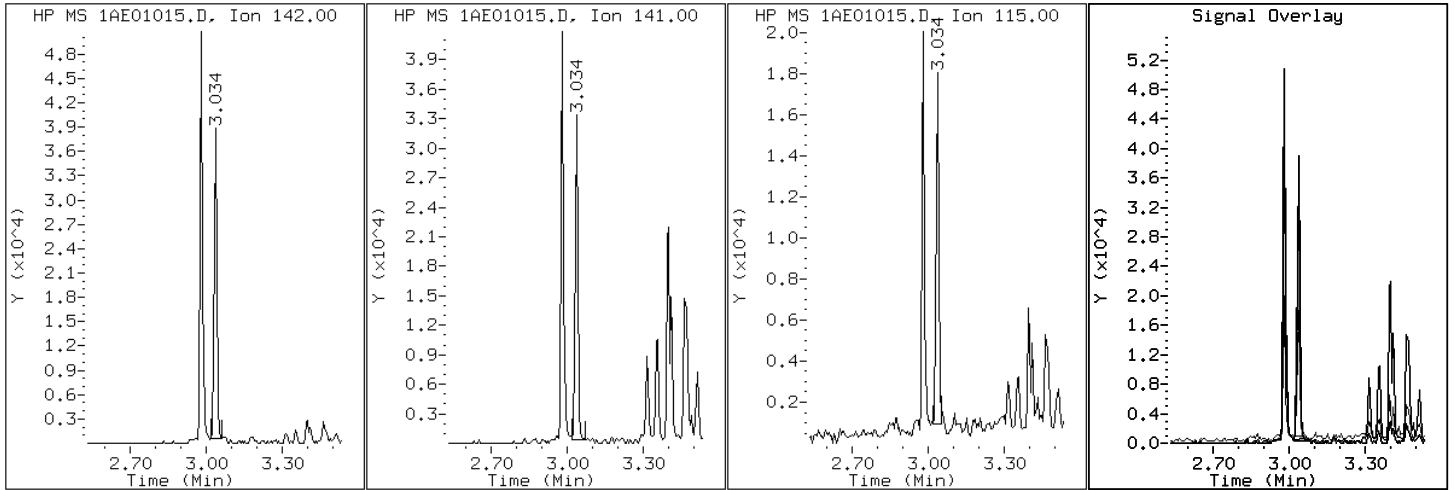
Client ID: CV1235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

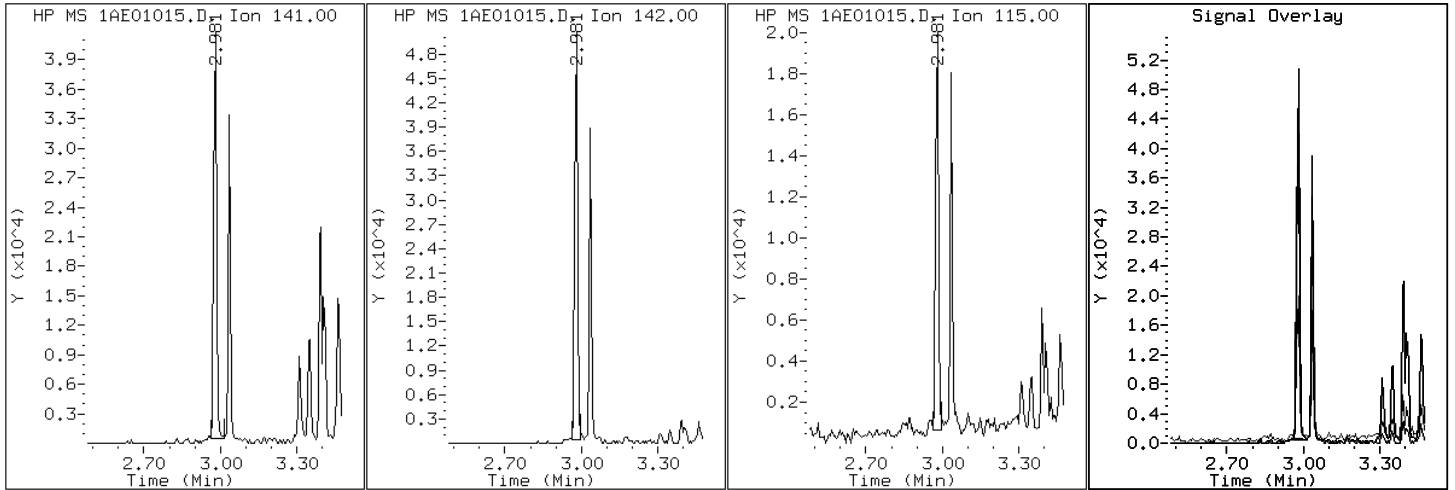
Client ID: CV1235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

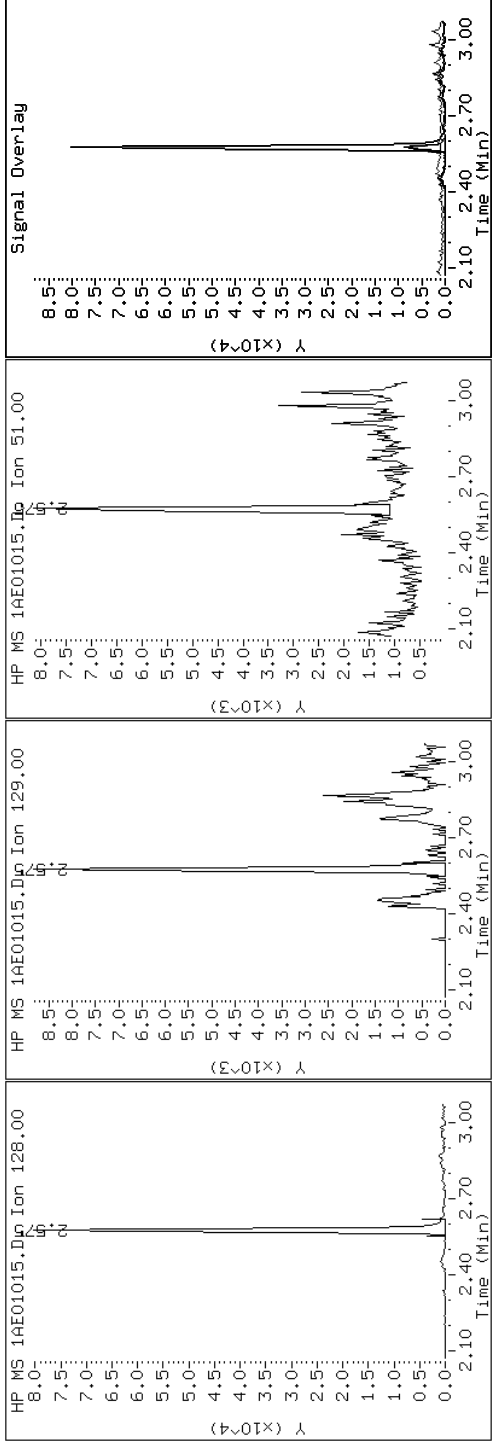
Client ID: CVI235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

2 Naphthalene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

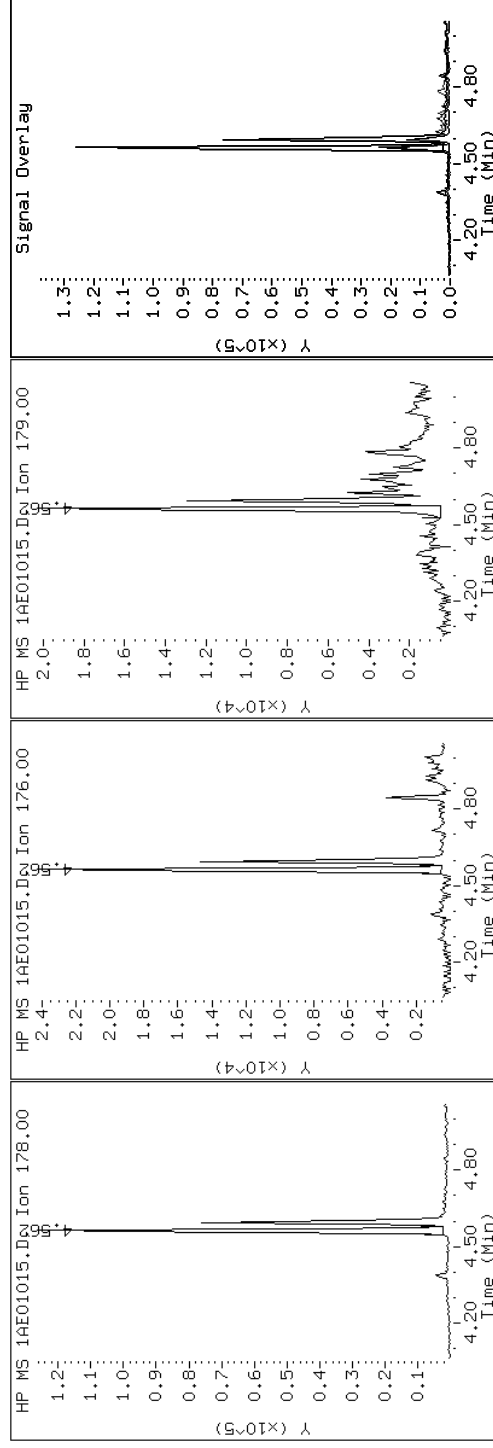
Client ID: CV1235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01015.D

Date: 01-MAY-2013 16:33

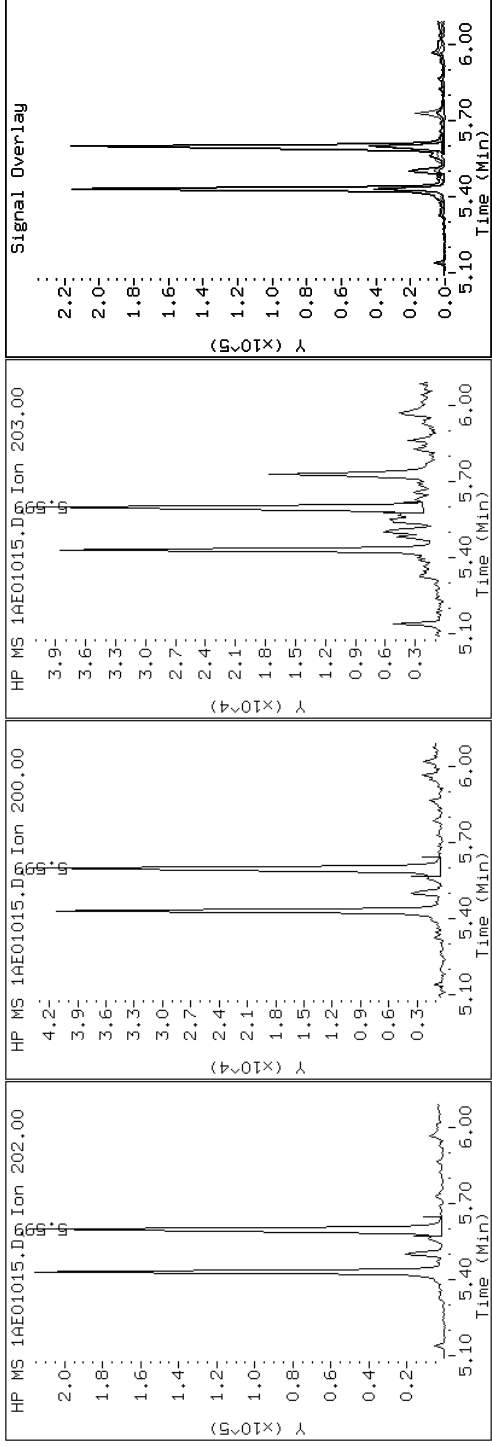
Client ID: CVI235D-CSD

Instrument: BSMA5973.i

Sample Info: 680-89695-a-27-a

Operator: SCC

16 Pyrene

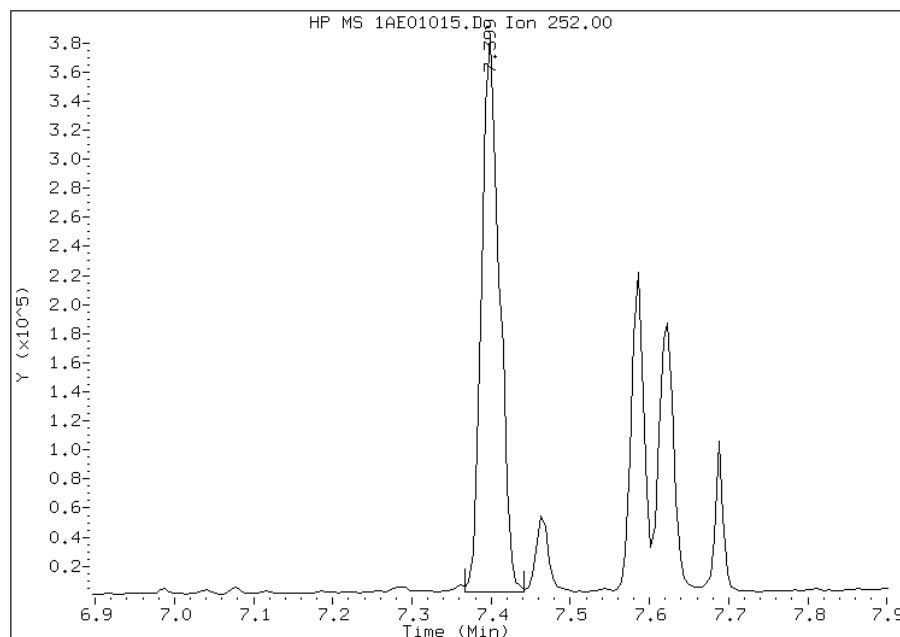


Manual Integration Report

Data File: 1AE01015.D
Inj. Date and Time: 01-MAY-2013 16:33
Instrument ID: BSMA5973.i
Client ID: CV1235D-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/05/2013

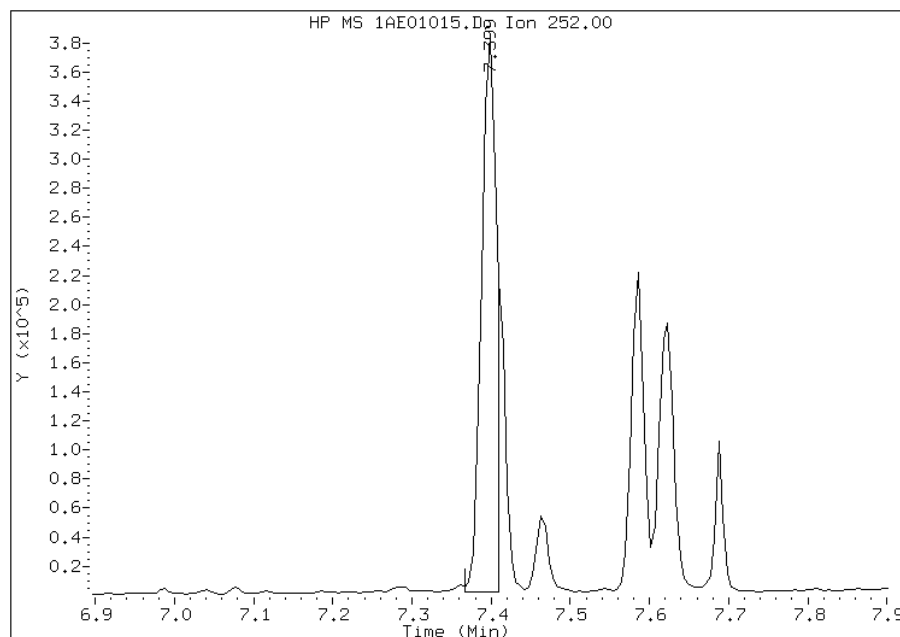
Processing Integration Results

RT: 7.40
Response: 593855
Amount: 14
Conc: 1073



Manual Integration Results

RT: 7.40
Response: 504924
Amount: 12
Conc: 912



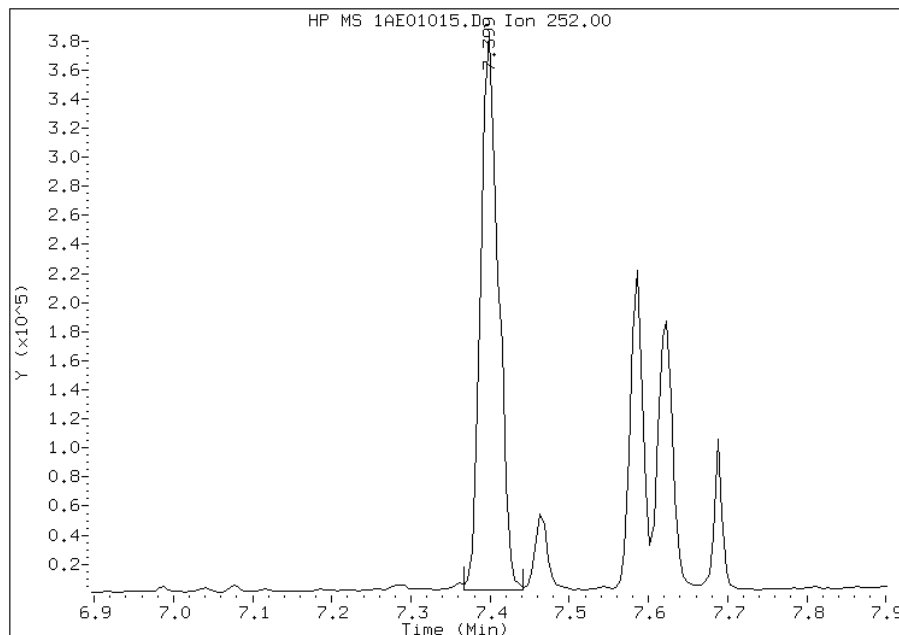
Manually Integrated By: cantins
Modification Date: 05-May-2013 16:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE01015.D
Inj. Date and Time: 01-MAY-2013 16:33
Instrument ID: BSMA5973.i
Client ID: CV1235D-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/05/2013

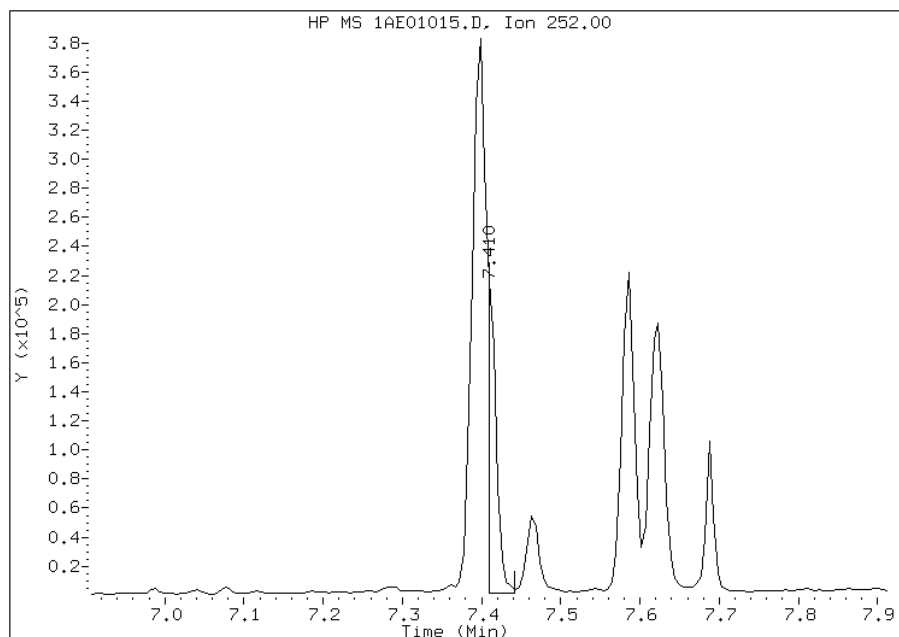
Processing Integration Results

RT: 7.40
Response: 593855
Amount: 12
Conc: 933



Manual Integration Results

RT: 7.41
Response: 158422
Amount: 3
Conc: 249



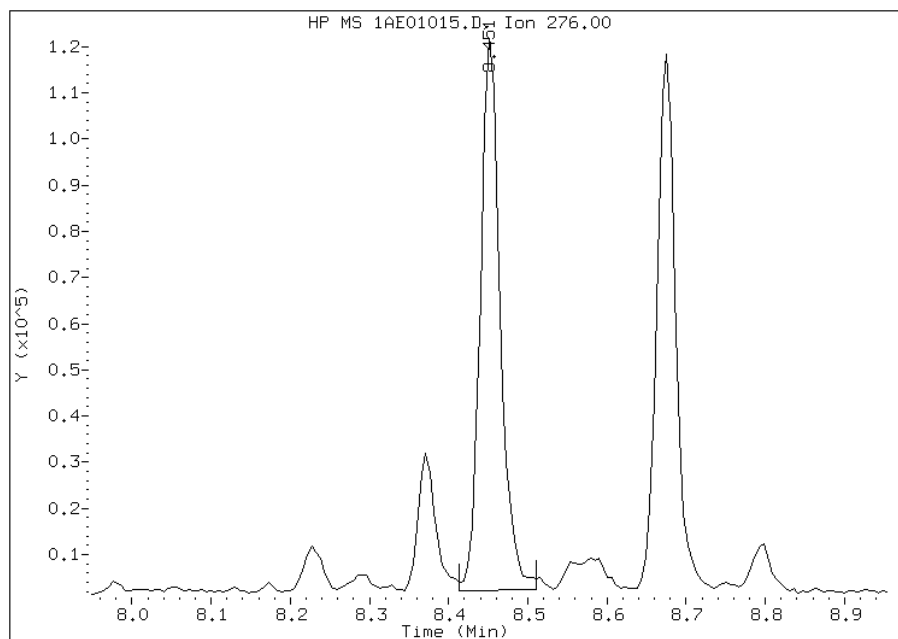
Manually Integrated By: cantins
Modification Date: 05-May-2013 17:00
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE01015.D
Inj. Date and Time: 01-MAY-2013 16:33
Instrument ID: BSMA5973.i
Client ID: CV1235D-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/05/2013

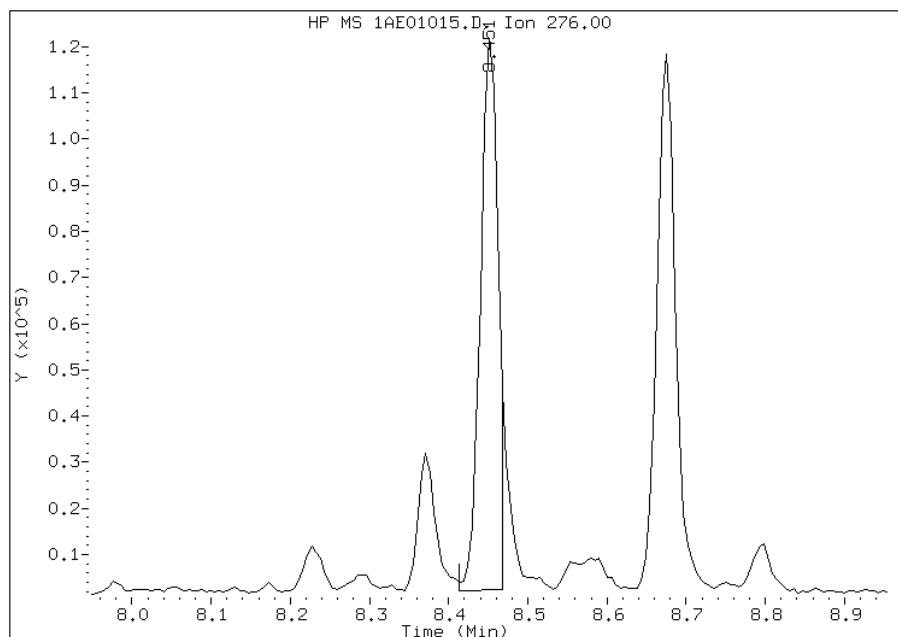
Processing Integration Results

RT: 8.45
Response: 206112
Amount: 5
Conc: 396



Manual Integration Results

RT: 8.45
Response: 183121
Amount: 4
Conc: 352



Manually Integrated By: cantins
Modification Date: 05-May-2013 17:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV1324A-CS Lab Sample ID: 680-89695-28
 Matrix: Solid Lab File ID: 1AE01016.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 14:20
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27
 Sample wt/vol: 15.05(g) Date Analyzed: 05/01/2013 16:48
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 24.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	210	U	210	27
120-12-7	Anthracene	49		45	22
56-55-3	Benzo[a]anthracene	170		42	21
50-32-8	Benzo[a]pyrene	140		55	28
205-99-2	Benzo[b]fluoranthene	260		65	32
191-24-2	Benzo[g,h,i]perylene	130		110	23
207-08-9	Benzo[k]fluoranthene	91		42	19
218-01-9	Chrysene	170		48	24
53-70-3	Dibenz(a,h)anthracene	37	J	110	22
206-44-0	Fluoranthene	220		110	21
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	120		110	38
90-12-0	1-Methylnaphthalene	46	J	210	23
91-57-6	2-Methylnaphthalene	48	J	210	38
91-20-3	Naphthalene	45	J	210	23
85-01-8	Phenanthrene	110		42	21
129-00-0	Pyrene	170		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01016.D
 Lab Smp Id: 680-89695-A-28-A Client Smp ID: CV1324A-CS
 Inj Date : 01-MAY-2013 16:48
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-28-a
 Misc Info : 680-89695-A-28-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 13
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	24.882	% 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			2.567	2.563	(1.000)	1445271	40.0000	
* 6 Acenaphthene-d10	164			3.593	3.594	(1.000)	725186	40.0000	
* 10 Phenanthrene-d10	188			4.549	4.544	(1.000)	1183341	40.0000	
\$ 14 o-Terphenyl	230			4.848	4.844	(1.066)	19381	1.00133	354.2865
* 18 Chrysene-d12	240			6.579	6.574	(1.000)	1265761	40.0000	
* 23 Perylene-d12	264			7.674	7.659	(1.000)	1603880	40.0000	
2 Naphthalene	128			2.578	2.573	(1.004)	4599	0.12729	45.0387(Q)
3 2-Methylnaphthalene	141			2.979	2.979	(1.160)	2812	0.13576	48.0329
4 1-Methylnaphthalene	142			3.037	3.033	(1.183)	2978	0.12977	45.9136
11 Phenanthrene	178			4.560	4.560	(1.002)	10482	0.30578	108.1913
12 Anthracene	178			4.597	4.593	(1.011)	4917	0.13795	48.8095(Q)
15 Fluoranthene	202			5.431	5.426	(1.194)	24722	0.62440	220.9232
16 Pyrene	202			5.596	5.592	(0.851)	23700	0.49079	173.6483
17 Benzo(a)anthracene	228			6.568	6.558	(0.998)	20219	0.48914	173.0642

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
19 Chrysene	228	6.595	6.590	(1.002)	19772	0.47148	166.8160
20 Benzo(b)fluoranthene	252	7.391	7.381	(0.963)	35658	0.73230	259.1006(M)
21 Benzo(k)fluoranthene	252	7.402	7.402	(0.965)	14455	0.25820	91.3539(QM)
22 Benzo(a)pyrene	252	7.616	7.605	(0.992)	19833	0.40943	144.8627
24 Indeno(1,2,3-cd)pyrene	276	8.449	8.423	(1.101)	15559	0.34018	120.3601(M)
25 Dibenzo(a,h)anthracene	278	8.476	8.450	(1.104)	4430	0.10410	36.8308
26 Benzo(g,h,i)perylene	276	8.673	8.642	(1.130)	19326	0.37754	133.5792

QC Flag Legend

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

Data File: 1AE01016.D

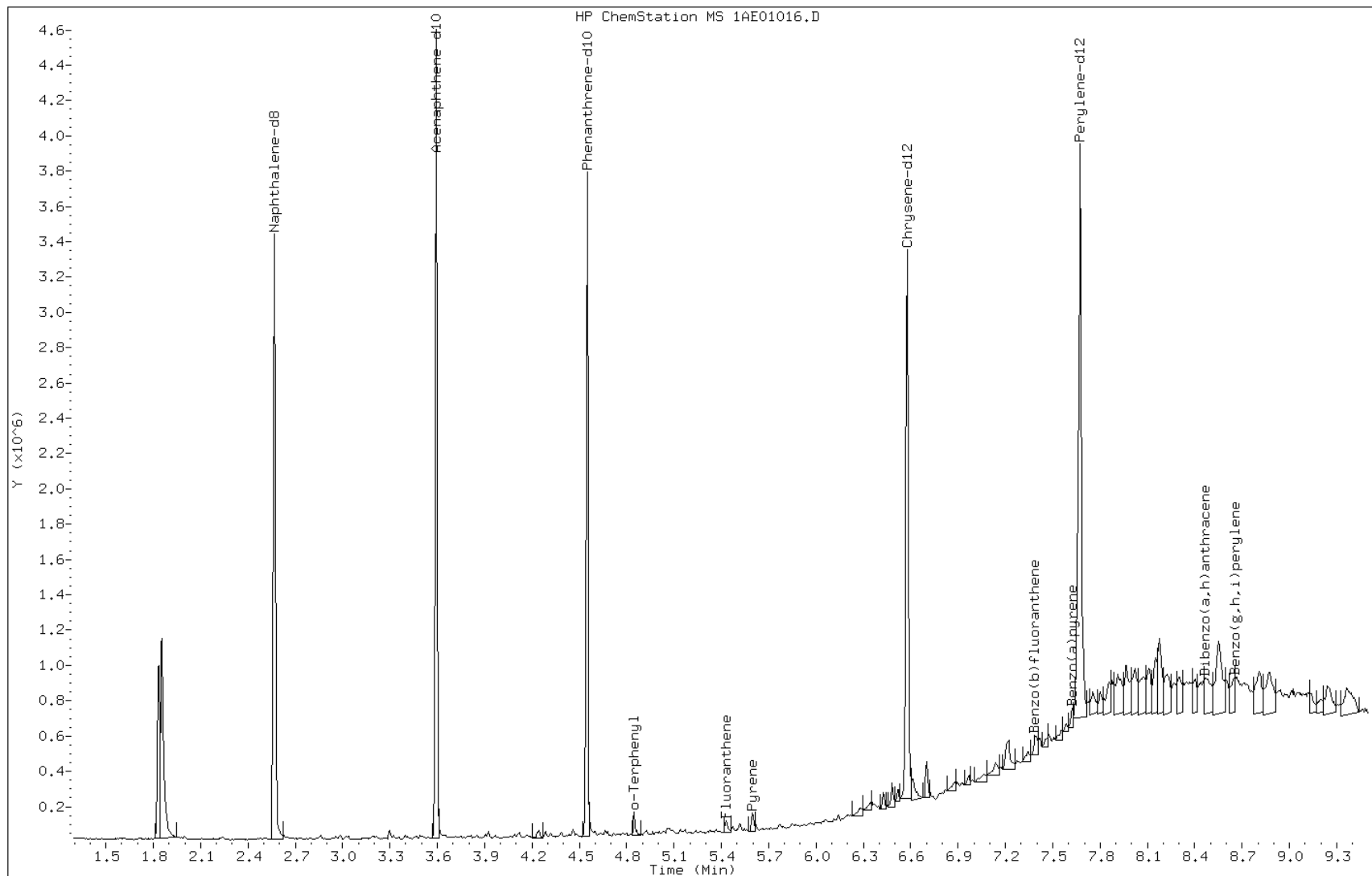
Date: 01-MAY-2013 16:48

Client ID: CV1324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

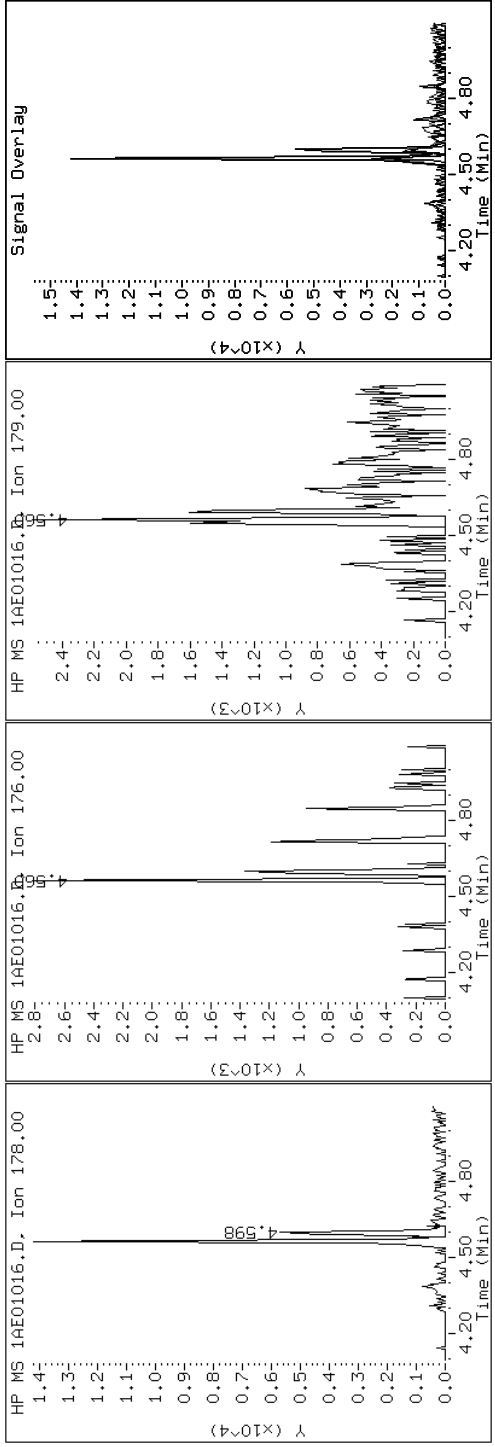
Client ID: CVI324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

12 Anthracene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

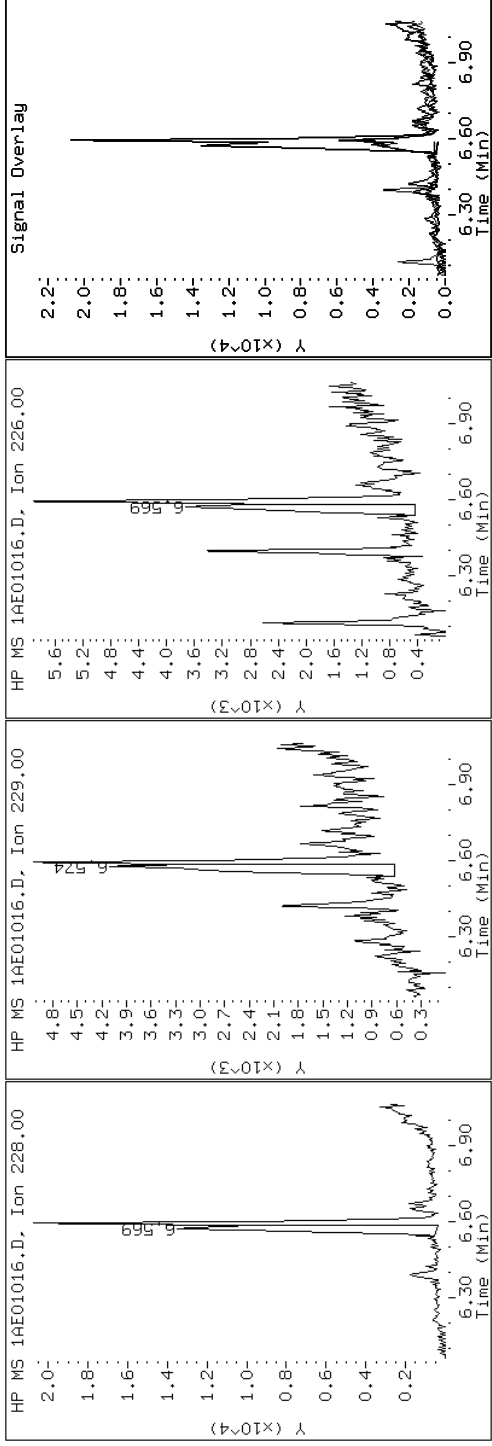
Client ID: CV1324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

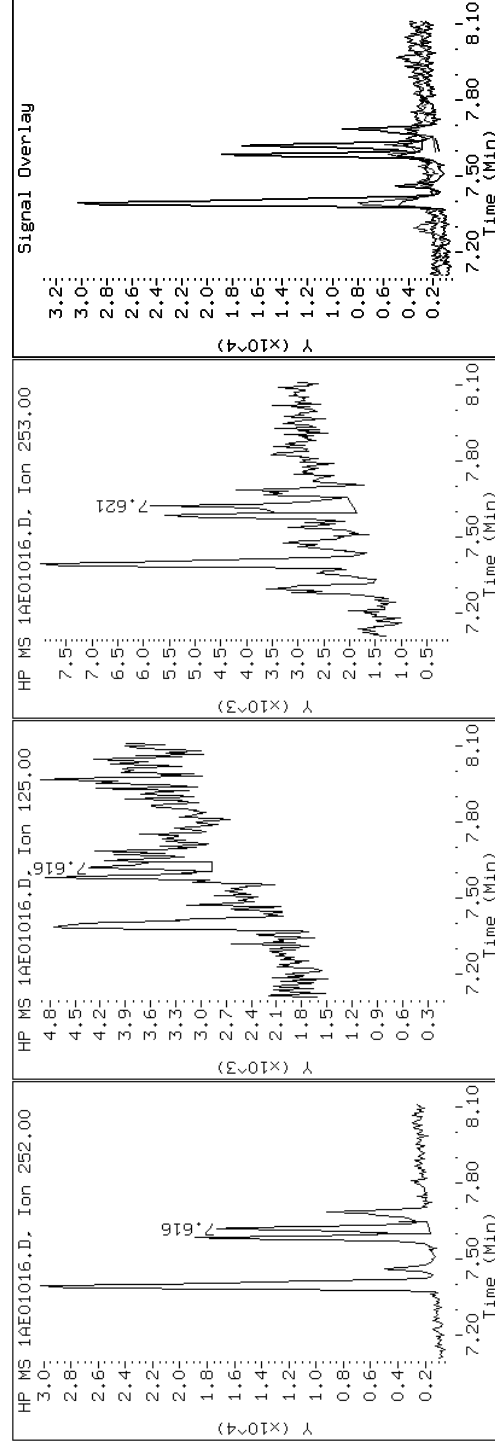
Client ID: CVI324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

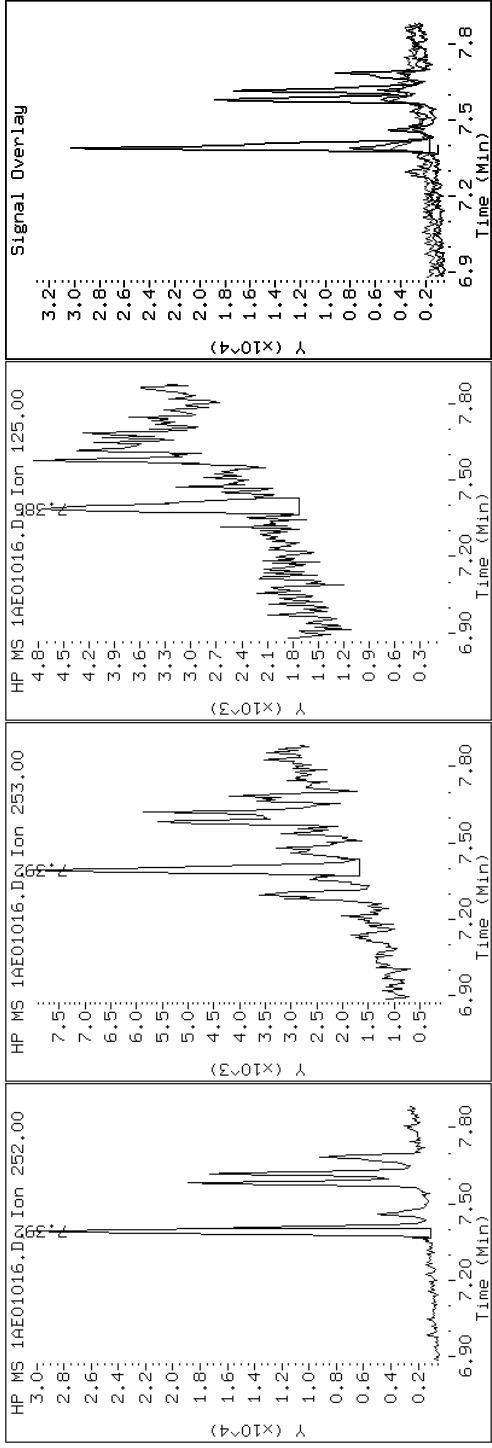
Client ID: CV1324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

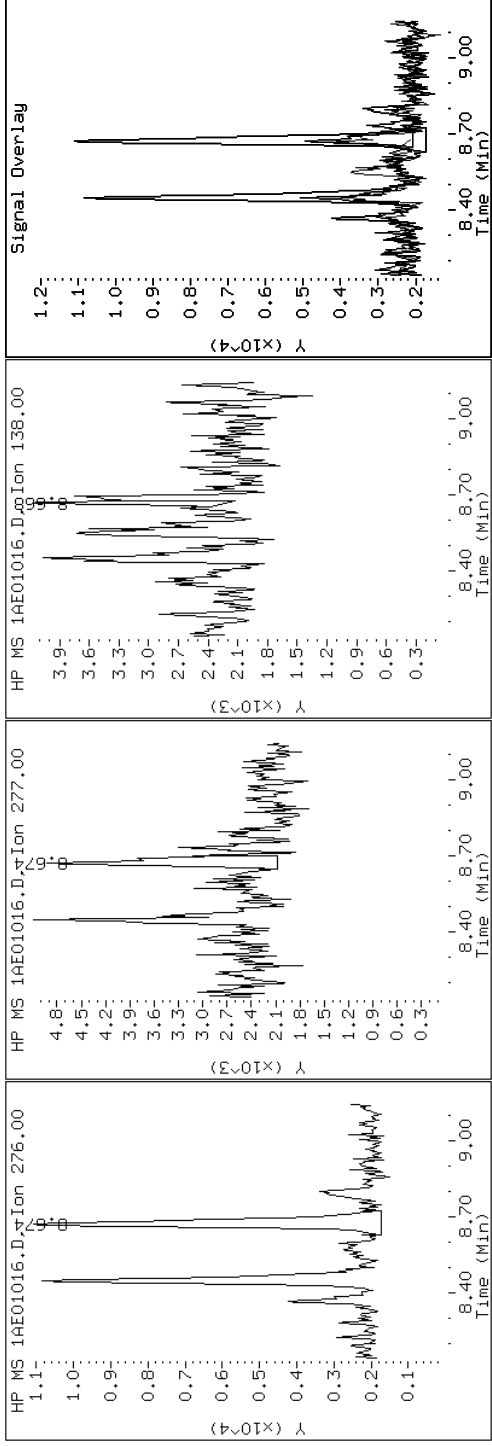
Client ID: CV1324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

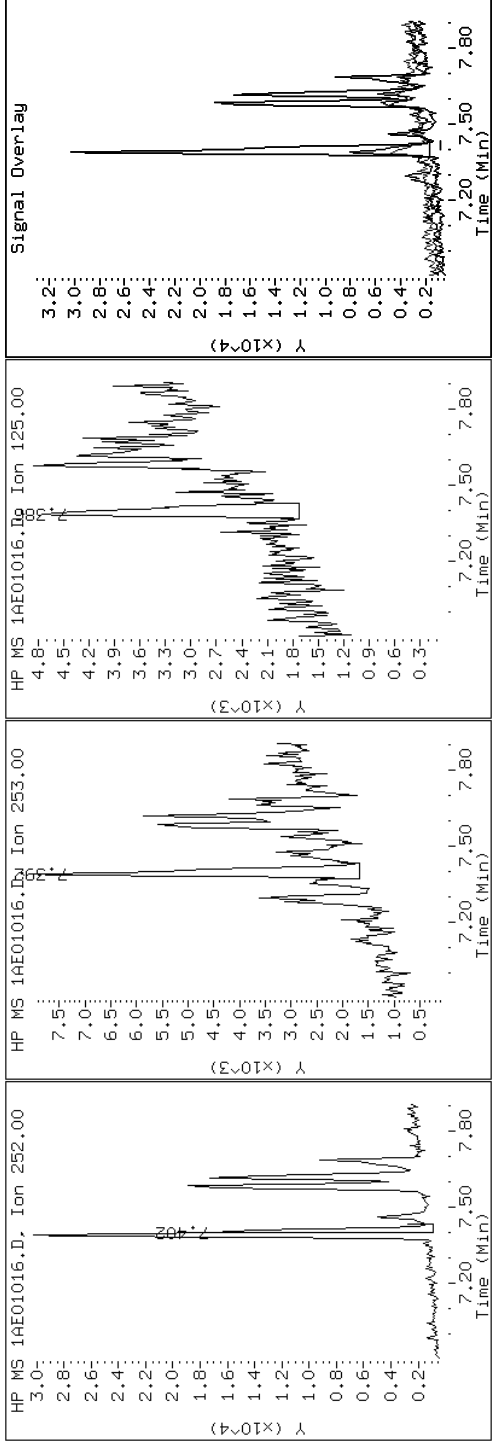
Client ID: CVI324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

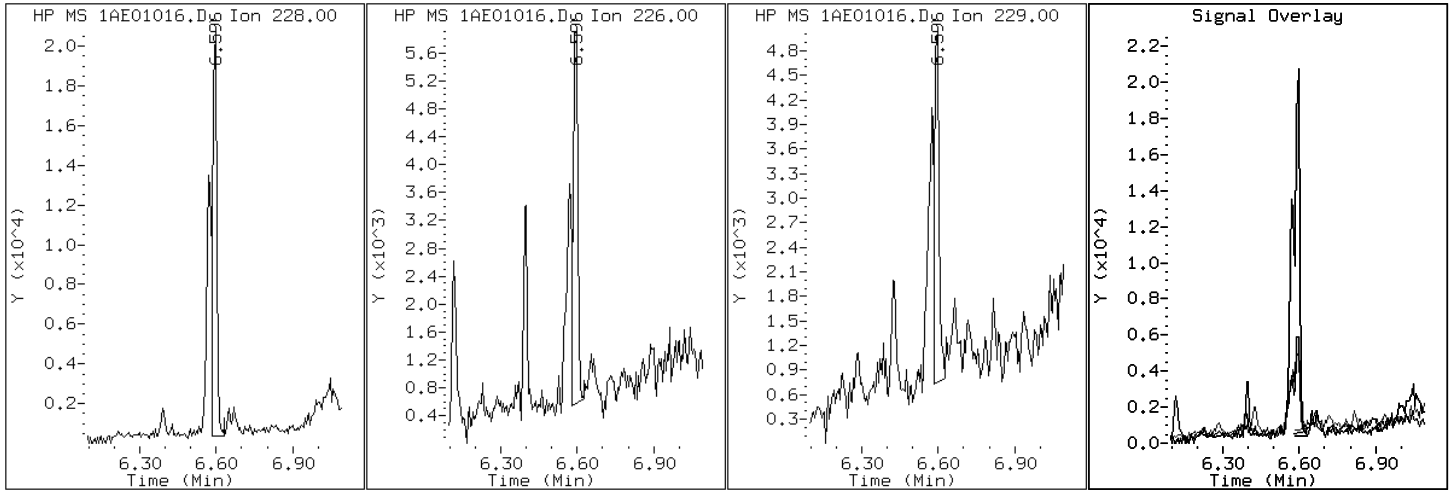
Client ID: CV1324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

19 Chrysene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

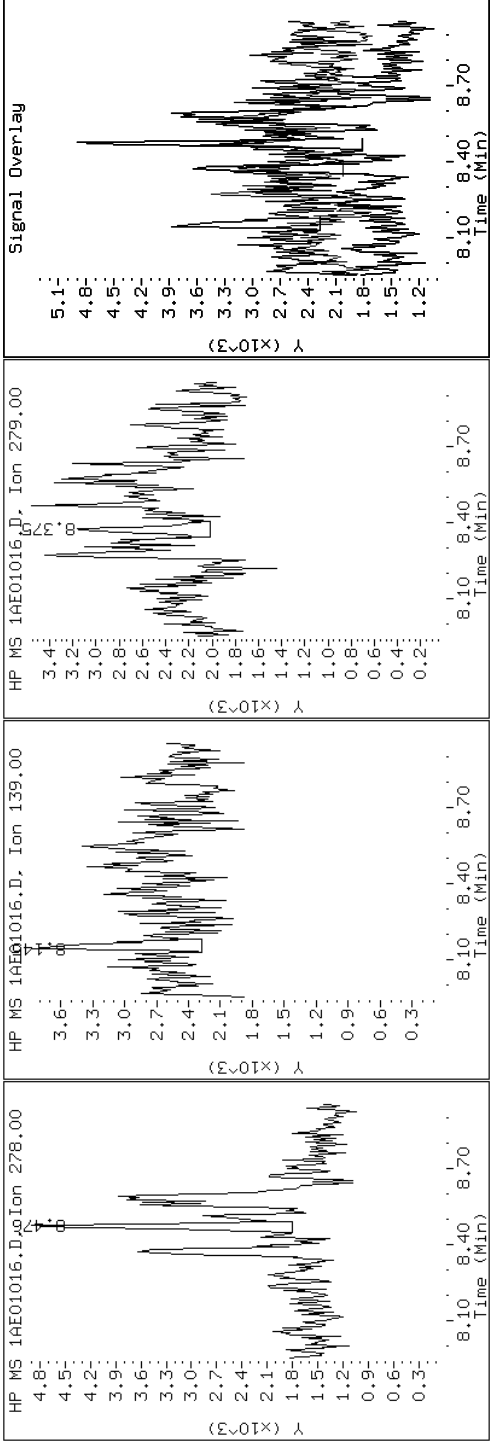
Client ID: CVI324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

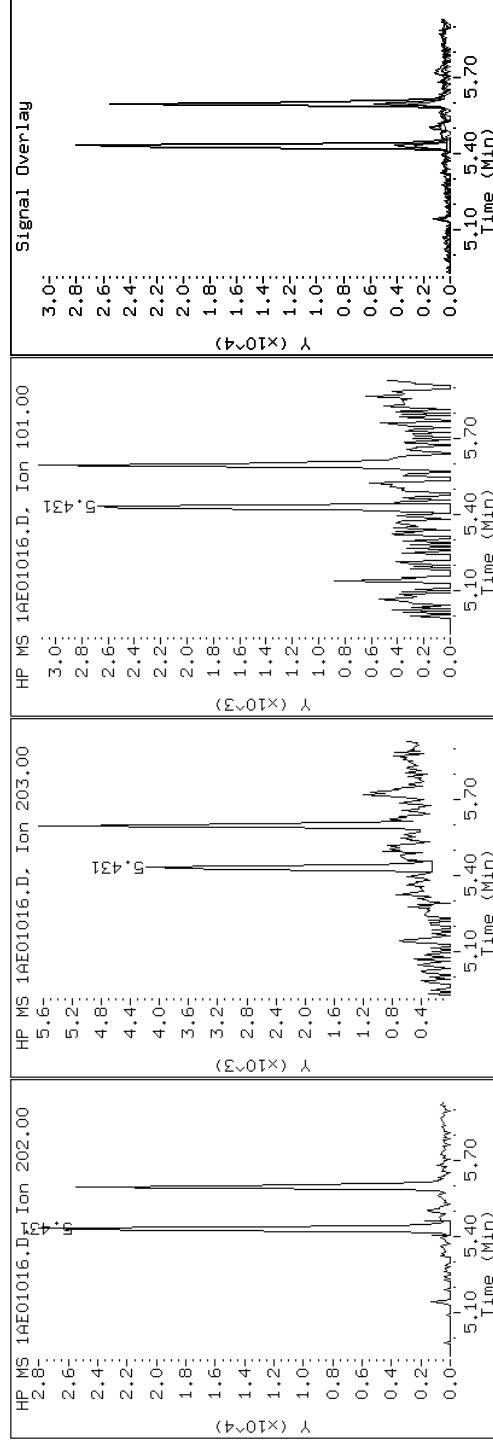
Client ID: CVI324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

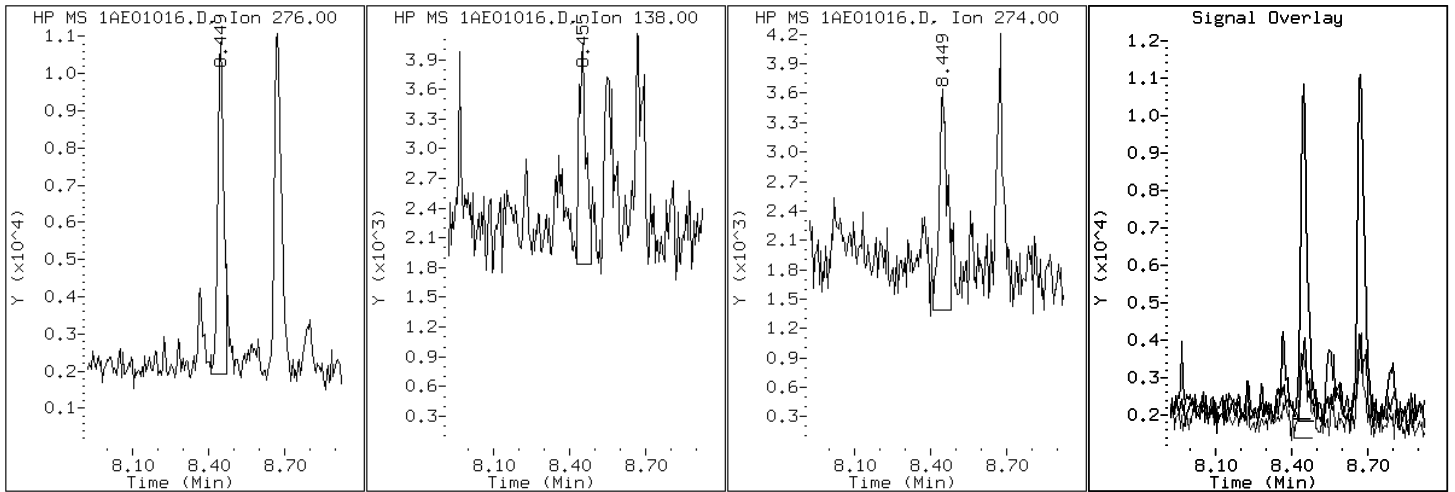
Client ID: CV1324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

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



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

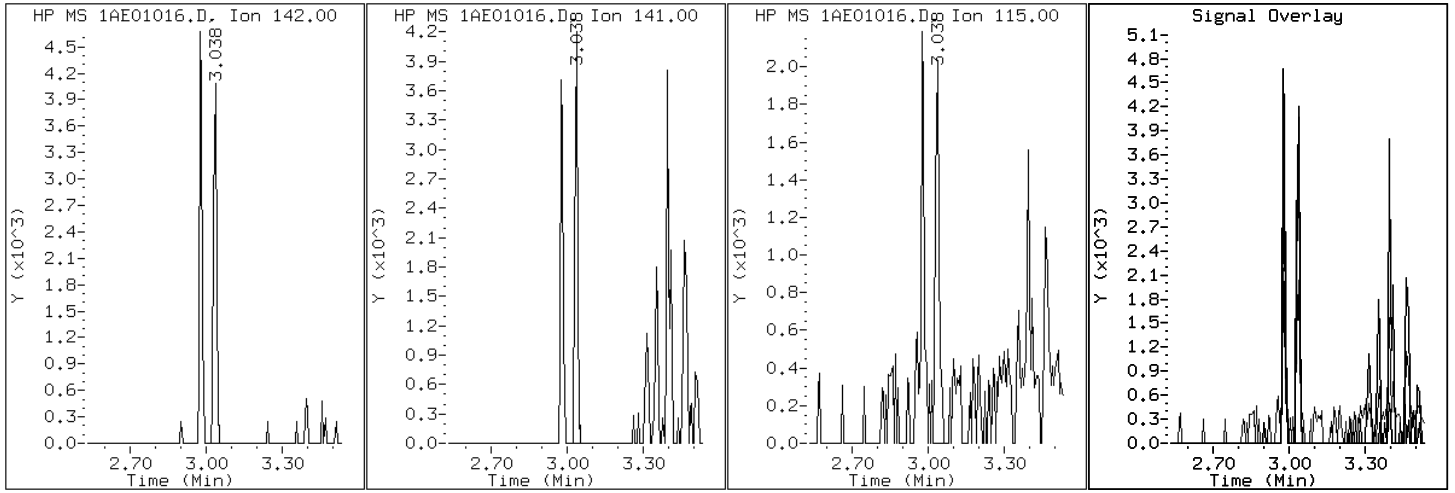
Client ID: CV1324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

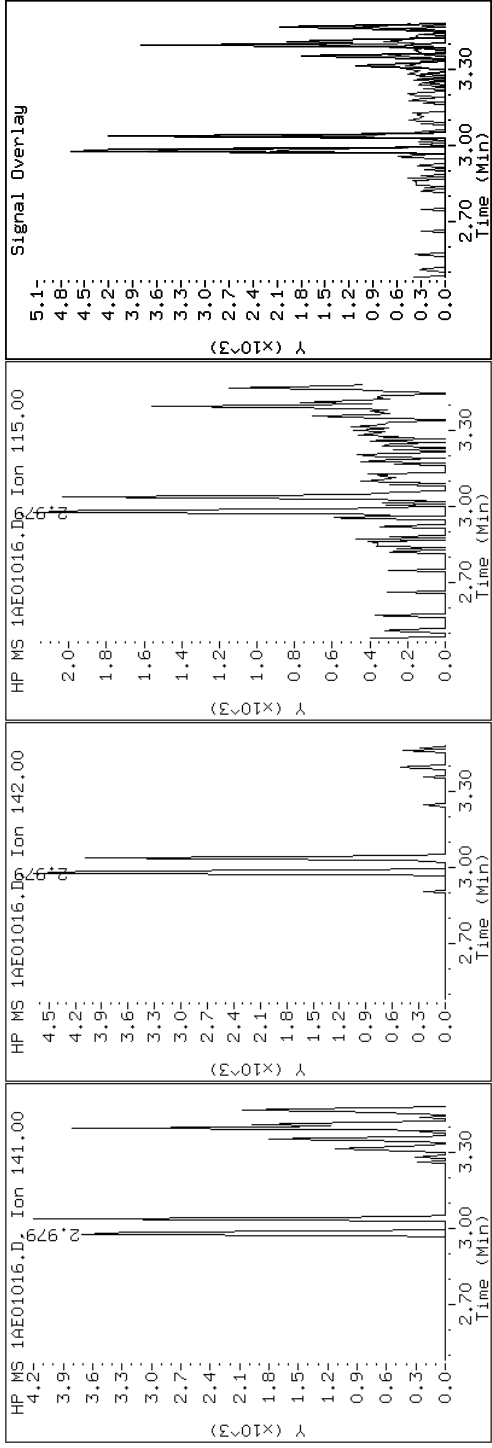
Client ID: CV1324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

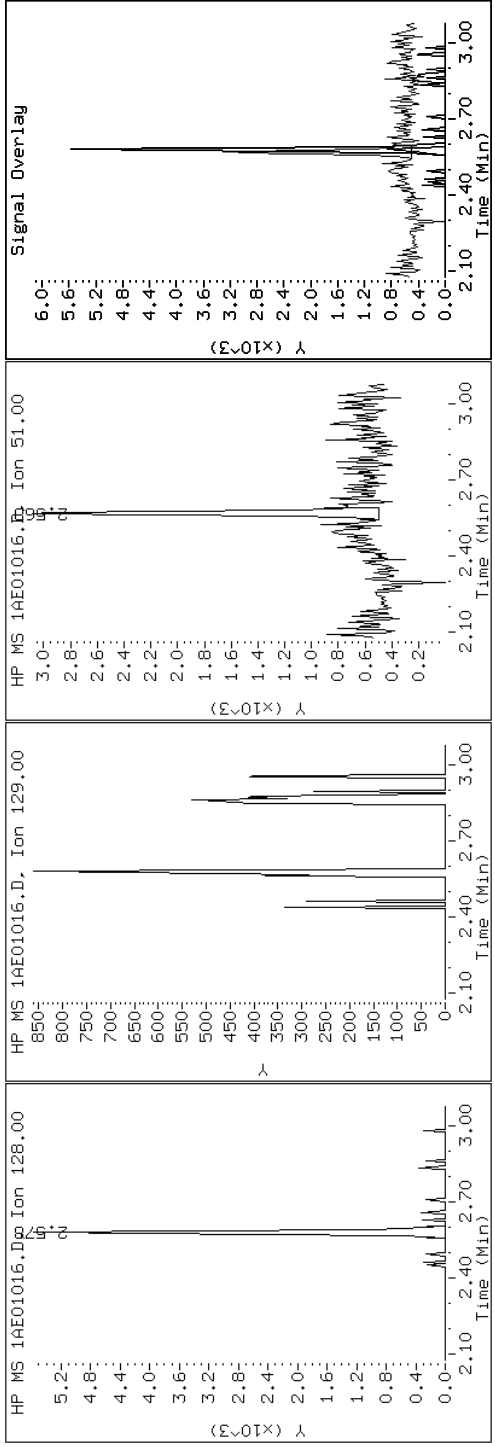
Client ID: CVI324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

2 Naphthalene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

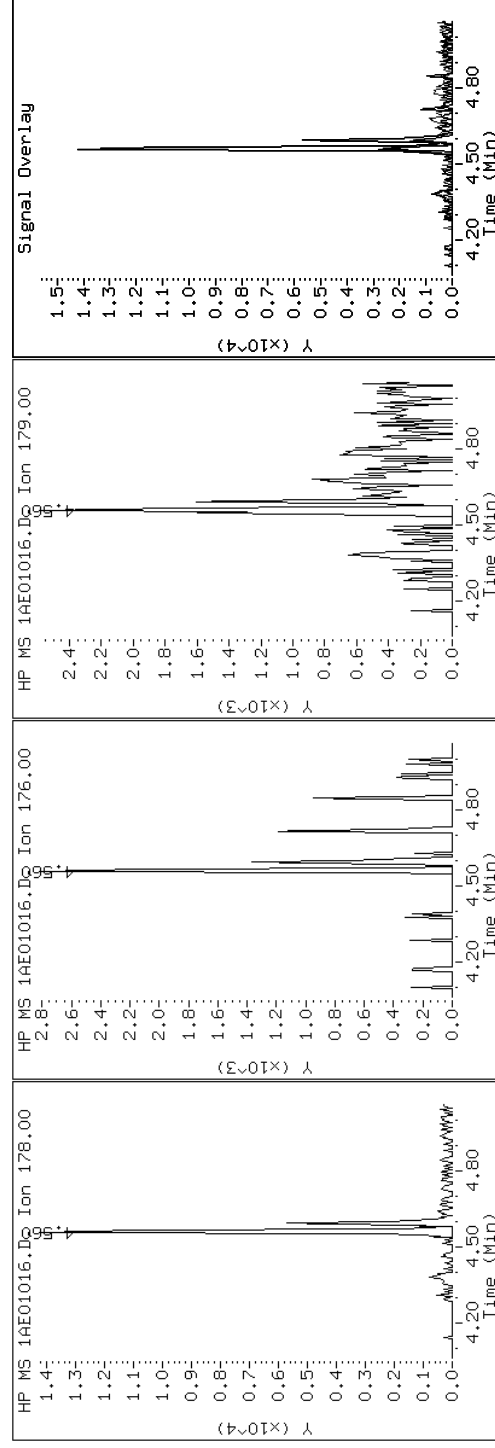
Client ID: CVI324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01016.D

Date: 01-MAY-2013 16:48

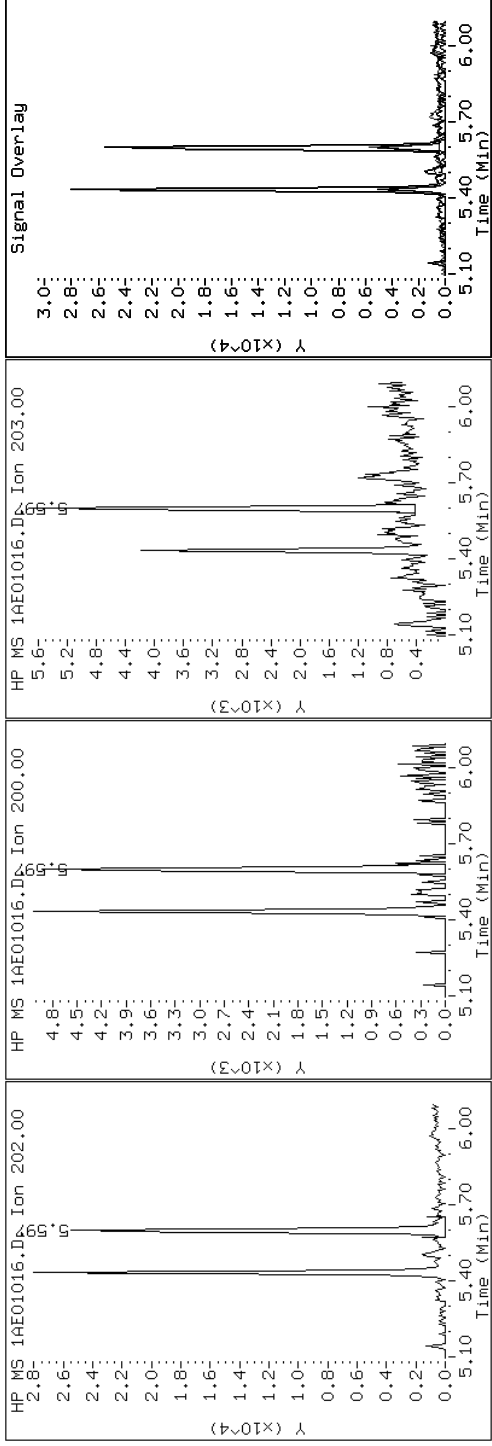
Client ID: CVI324A-CS

Instrument: BSMA5973.i

Sample Info: 680-89695-a-28-a

Operator: SCC

16 Pyrene

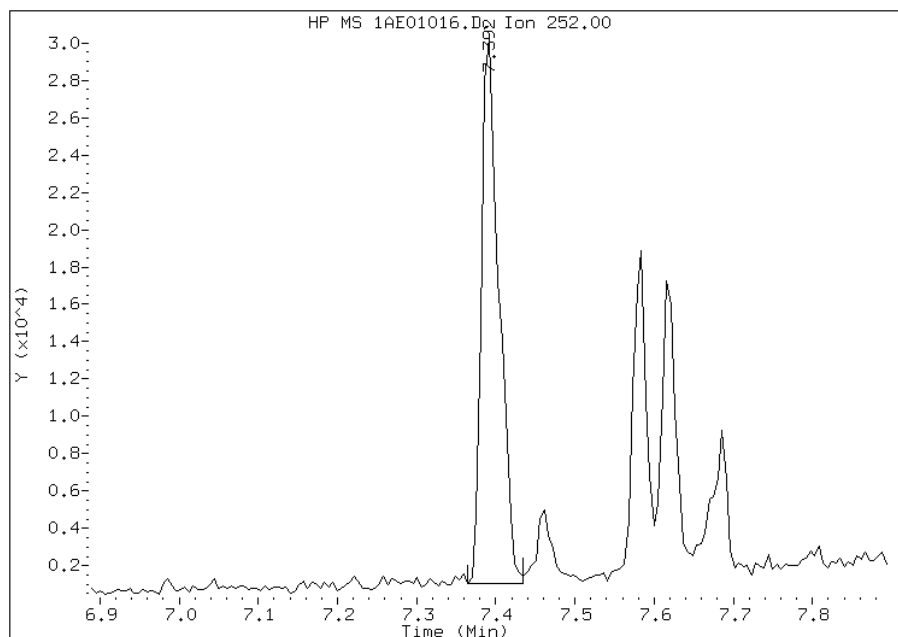


Manual Integration Report

Data File: 1AE01016.D
Inj. Date and Time: 01-MAY-2013 16:48
Instrument ID: BSMA5973.i
Client ID: CV1324A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/05/2013

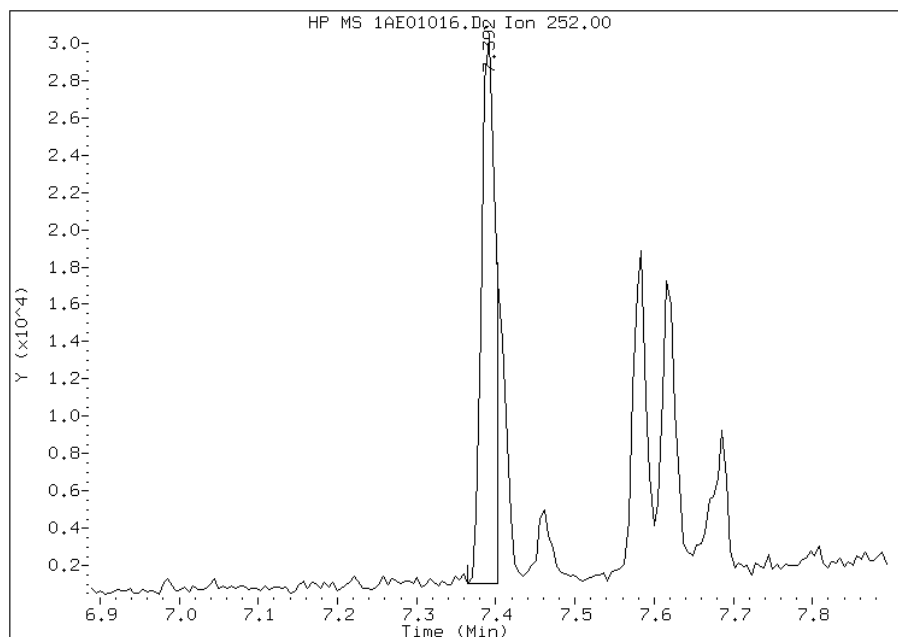
Processing Integration Results

RT: 7.39
Response: 44481
Amount: 1
Conc: 323



Manual Integration Results

RT: 7.39
Response: 35658
Amount: 1
Conc: 259



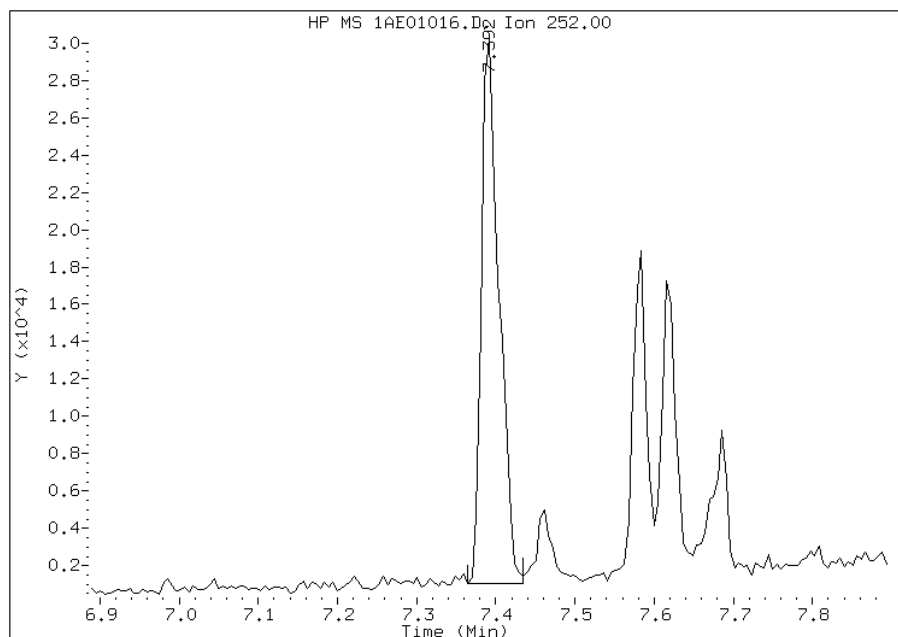
Manually Integrated By: cantins
Modification Date: 05-May-2013 17:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE01016.D
Inj. Date and Time: 01-MAY-2013 16:48
Instrument ID: BSMA5973.i
Client ID: CV1324A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/05/2013

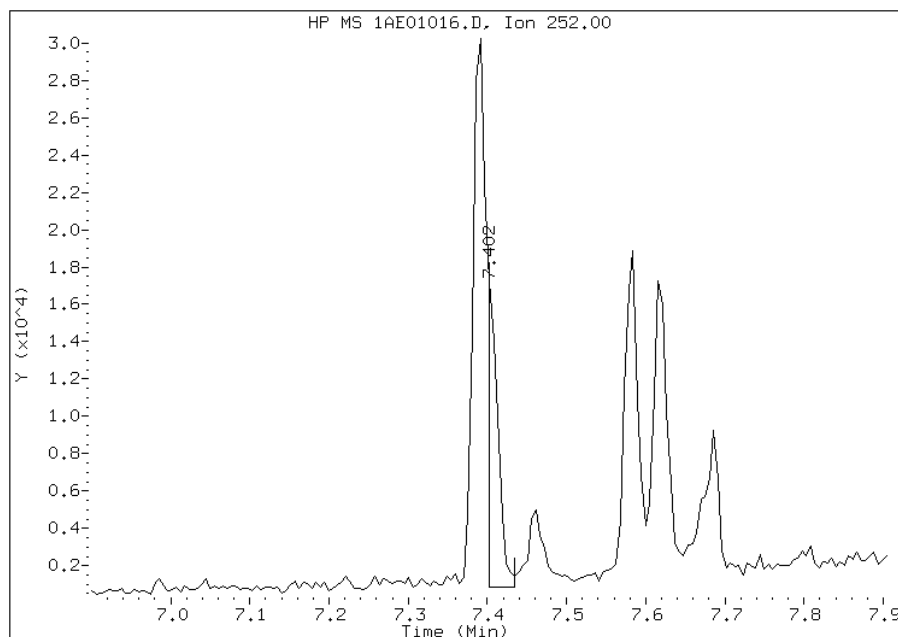
Processing Integration Results

RT: 7.39
Response: 44481
Amount: 1
Conc: 281



Manual Integration Results

RT: 7.40
Response: 14455
Amount: 0
Conc: 91



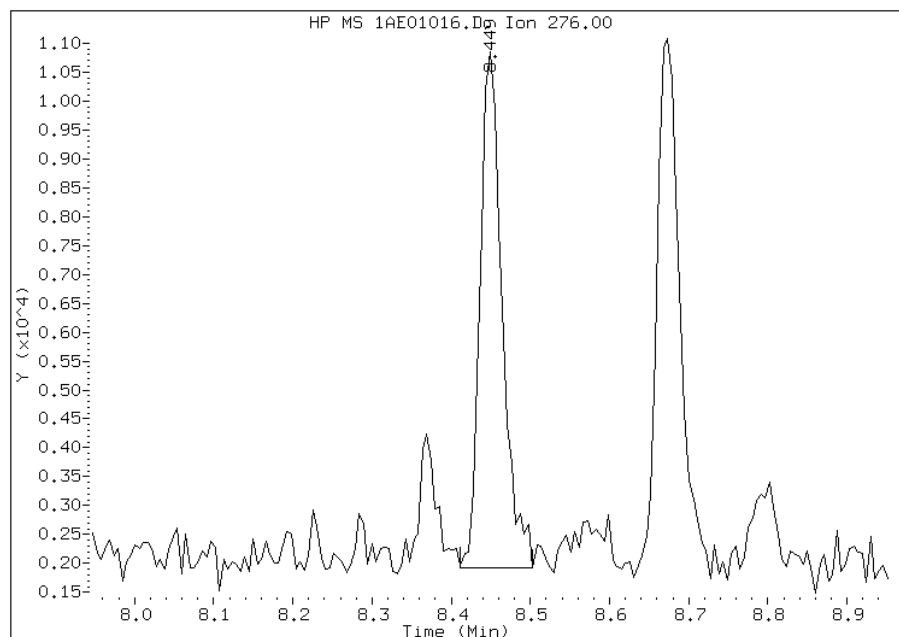
Manually Integrated By: cantins
Modification Date: 05-May-2013 17:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE01016.D
Inj. Date and Time: 01-MAY-2013 16:48
Instrument ID: BSMA5973.i
Client ID: CV1324A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/05/2013

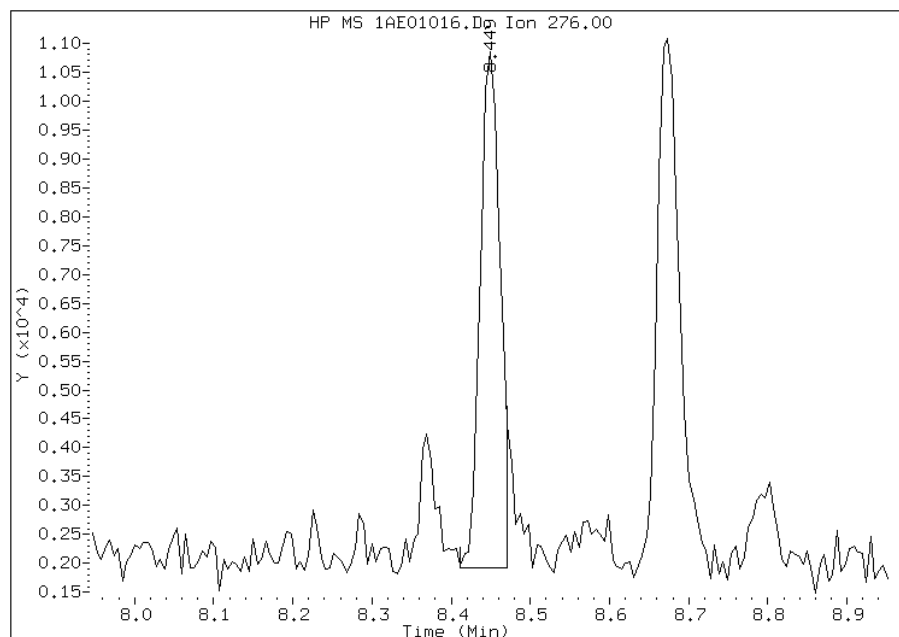
Processing Integration Results

RT: 8.45
Response: 17118
Amount: 0
Conc: 132



Manual Integration Results

RT: 8.45
Response: 15559
Amount: 0
Conc: 120



Manually Integrated By: cantins
Modification Date: 05-May-2013 17:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV0686A-CS-SP Lab Sample ID: 680-89695-29
 Matrix: Solid Lab File ID: 1AE01017.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 14:59
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27
 Sample wt/vol: 15.11(g) Date Analyzed: 05/01/2013 17:03
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 24.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	130	U	130	26
208-96-8	Acenaphthylene	48	J	53	6.6
120-12-7	Anthracene	73		11	5.5
56-55-3	Benzo[a]anthracene	200		11	5.1
50-32-8	Benzo[a]pyrene	170		14	6.9
205-99-2	Benzo[b]fluoranthene	330		16	8.0
191-24-2	Benzo[g,h,i]perylene	130		26	5.8
207-08-9	Benzo[k]fluoranthene	83		11	4.7
218-01-9	Chrysene	300		12	5.9
53-70-3	Dibenz(a,h)anthracene	50		26	5.4
206-44-0	Fluoranthene	280		26	5.3
86-73-7	Fluorene	30		26	5.4
193-39-5	Indeno[1,2,3-cd]pyrene	140		26	9.4
90-12-0	1-Methylnaphthalene	130		53	5.8
91-57-6	2-Methylnaphthalene	160		53	9.4
91-20-3	Naphthalene	170		53	5.8
85-01-8	Phenanthrene	240		11	5.1
129-00-0	Pyrene	190		26	4.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01017.D
 Lab Smp Id: 680-89695-A-29-A Client Smp ID: CV0686A-CS-SP
 Inj Date : 01-MAY-2013 17:03
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-29-a
 Misc Info : 680-89695-A-29-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.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	15.110	Weight Extracted
M	24.672	% 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		2.570	2.563	(1.000)	1387141	40.0000		
* 6 Acenaphthene-d10	164		3.596	3.594	(1.000)	695926	40.0000		
* 10 Phenanthrene-d10	188		4.552	4.544	(1.000)	1073184	40.0000		
\$ 14 o-Terphenyl	230		4.851	4.844	(1.066)	78013	4.44431	390.4688	
* 18 Chrysene-d12	240		6.588	6.574	(1.000)	1152528	40.0000		
* 23 Perylene-d12	264		7.688	7.659	(1.000)	1504904	40.0000		
2 Naphthalene	128		2.581	2.573	(1.004)	65128	1.87820	165.0154	
3 2-Methylnaphthalene	141		2.982	2.979	(1.160)	36539	1.83795	161.4785	
4 1-Methylnaphthalene	142		3.035	3.033	(1.181)	32471	1.47423	129.5228	
5 Acenaphthylene	152		3.505	3.503	(0.975)	22313	0.54861	48.1998	
9 Fluorene	166		3.927	3.925	(1.092)	8875	0.34584	30.3849	
11 Phenanthrene	178		4.563	4.560	(1.002)	86677	2.78812	244.9588	
12 Anthracene	178		4.600	4.593	(1.011)	26709	0.82627	72.5944	
13 Carbazole	167		4.734	4.726	(1.040)	9916	0.31799	27.9378	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.434	5.426	(1.194)	114775	3.19642	280.8316
16 Pyrene	202	5.605	5.592	(0.851)	96255	2.18912	192.3318
17 Benzo(a)anthracene	228	6.577	6.558	(0.998)	83595	2.22102	195.1342
19 Chrysene	228	6.604	6.590	(1.002)	130187	3.40940	299.5437
20 Benzo(b)fluoranthene	252	7.400	7.381	(0.962)	171892	3.76230	330.5487(M)
21 Benzo(k)fluoranthene	252	7.416	7.402	(0.965)	49923	0.95038	83.4983(QM)
22 Benzo(a)pyrene	252	7.629	7.605	(0.992)	89725	1.97410	173.4403
24 Indeno(1,2,3-cd)pyrene	276	8.457	8.423	(1.100)	67743	1.57853	138.6863(M)
25 Dibenzo(a,h)anthracene	278	8.484	8.450	(1.104)	22786	0.57064	50.1353
26 Benzo(g,h,i)perylene	276	8.687	8.642	(1.130)	71830	1.49551	131.3926

QC Flag Legend

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

Data File: 1AE01017.D

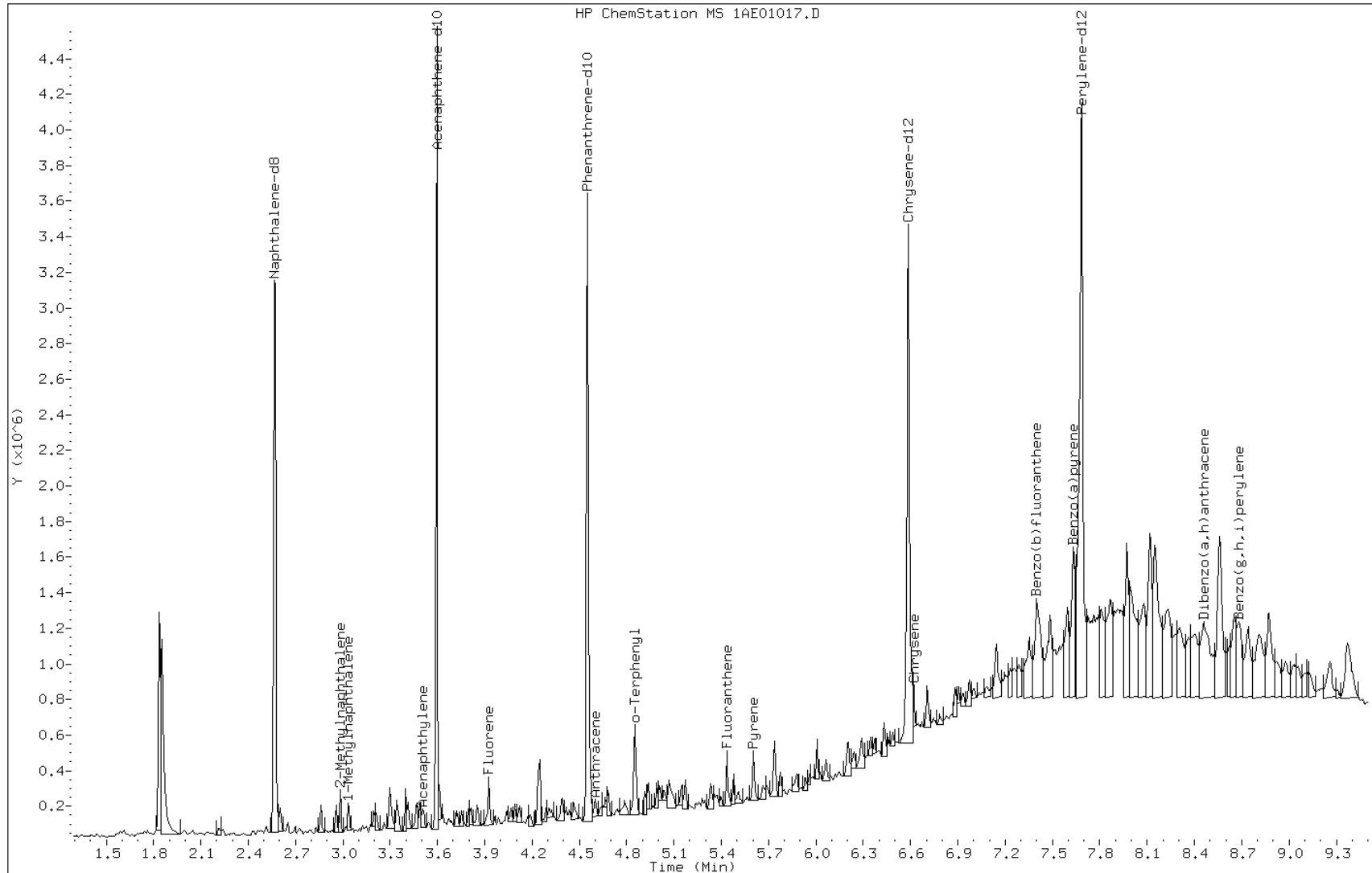
Date: 01-MAY-2013 17:03

Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

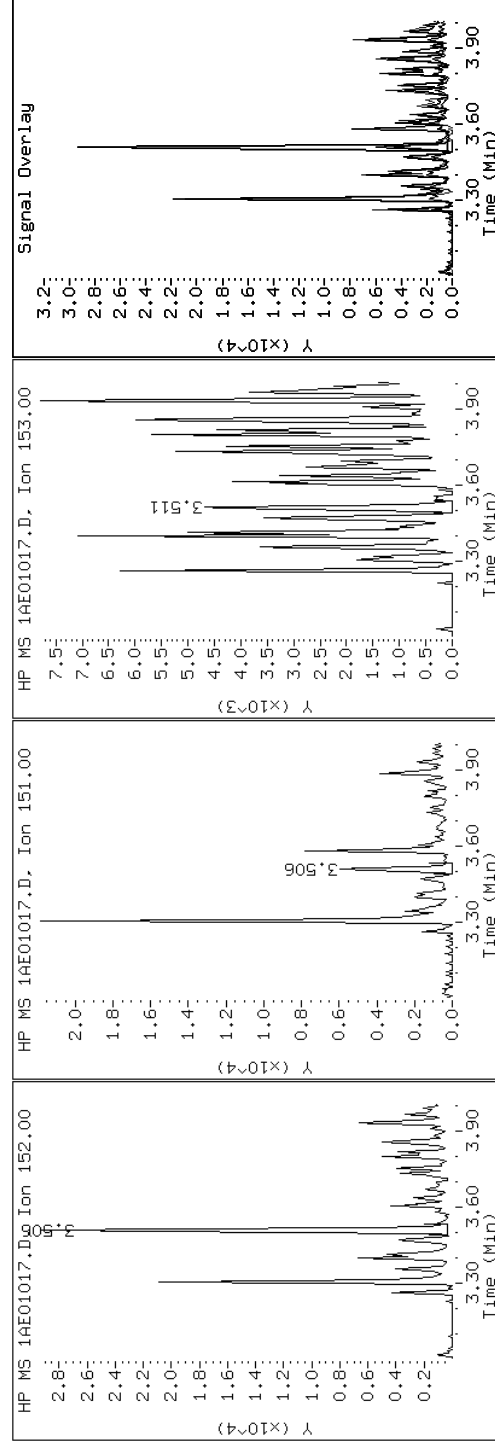
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

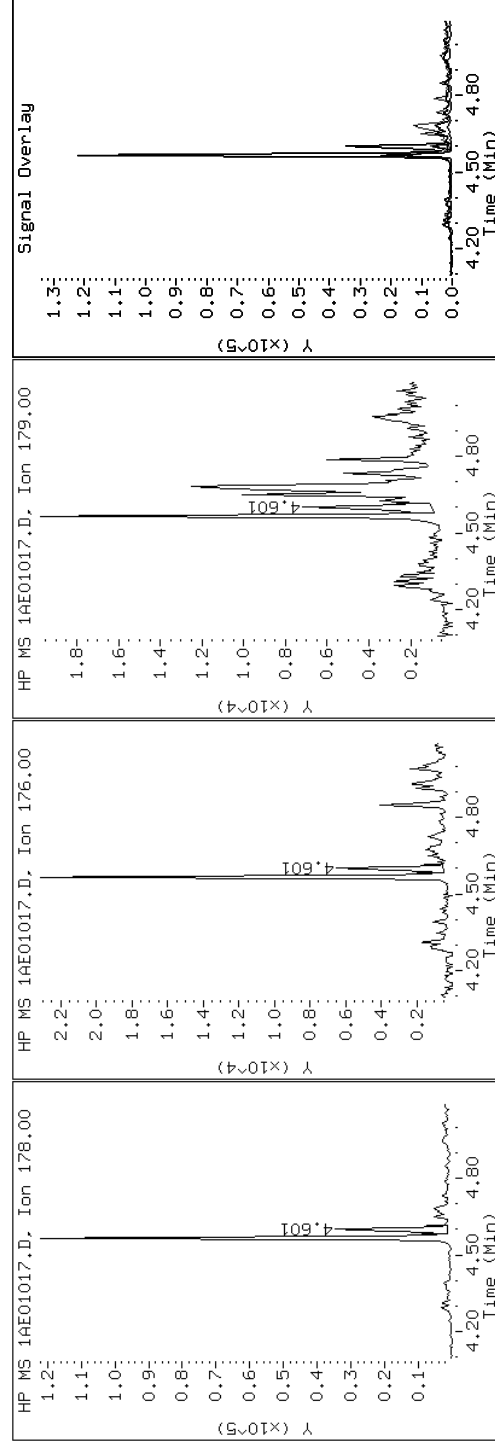
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

12 Anthracene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

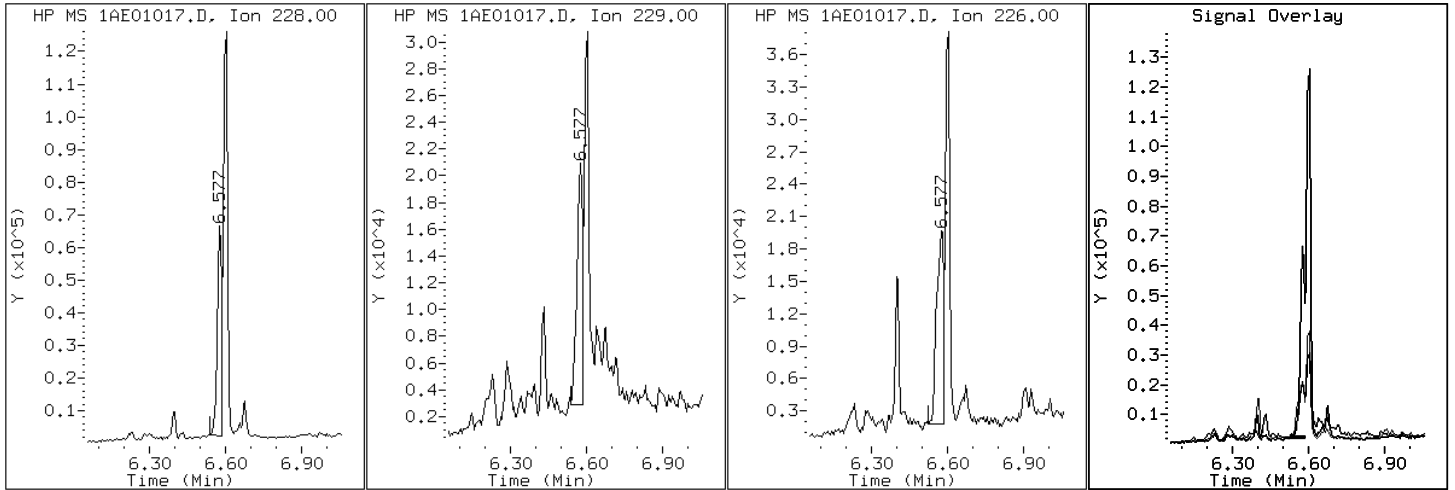
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

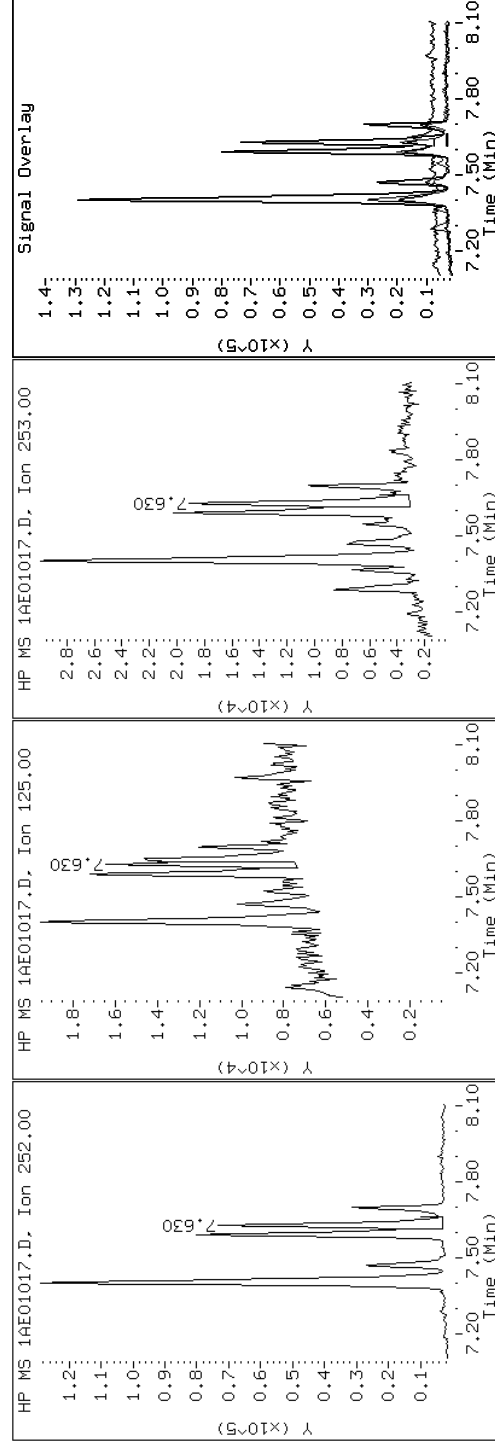
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

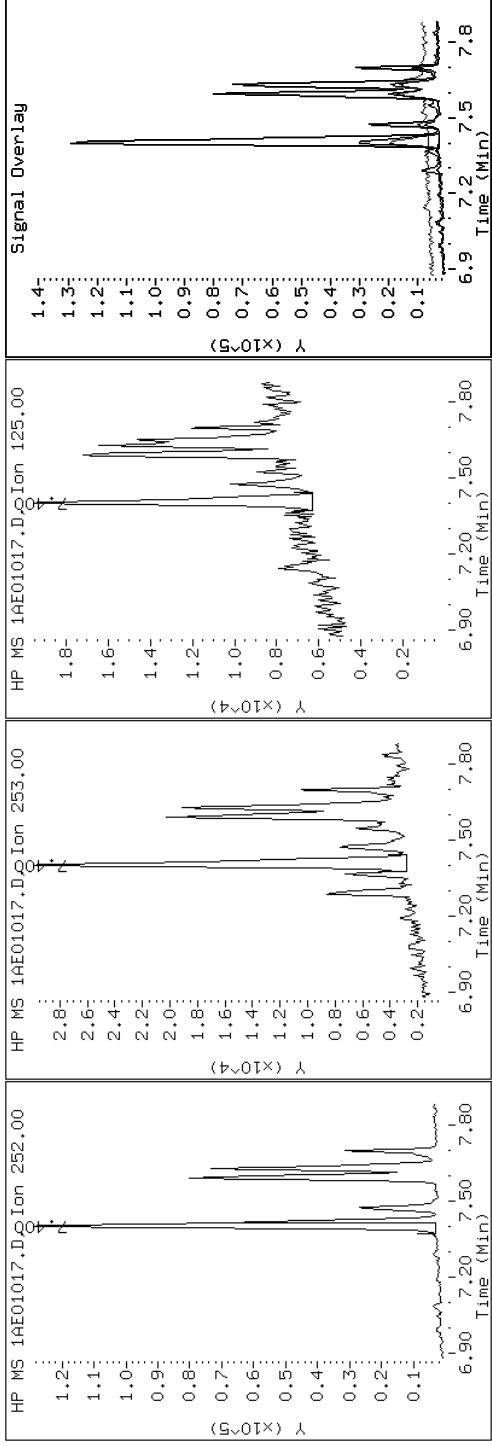
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

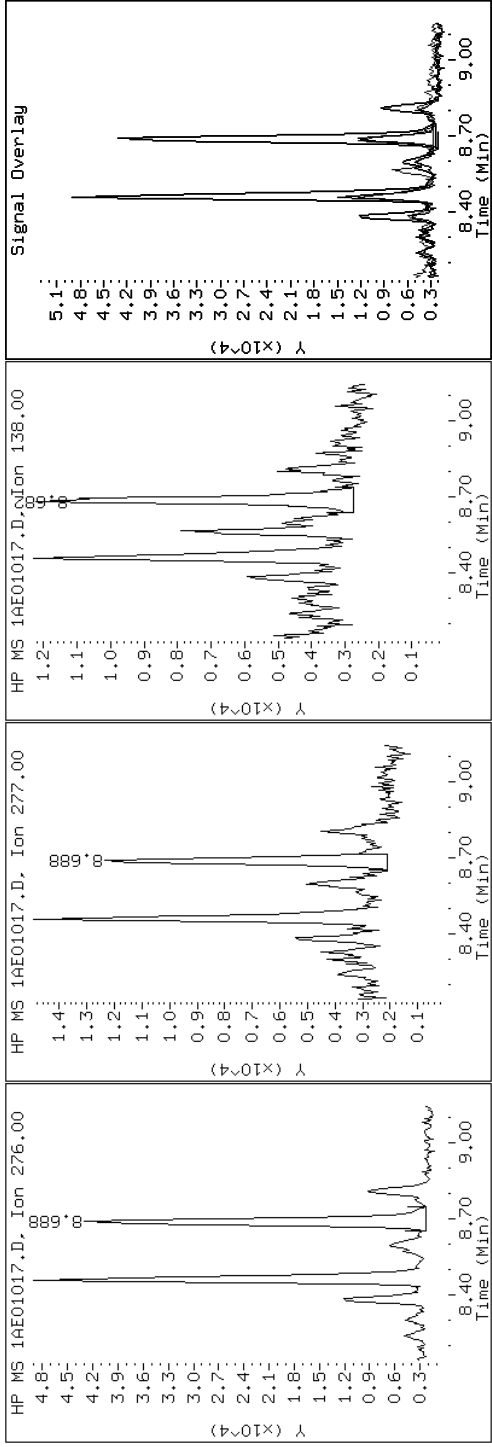
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

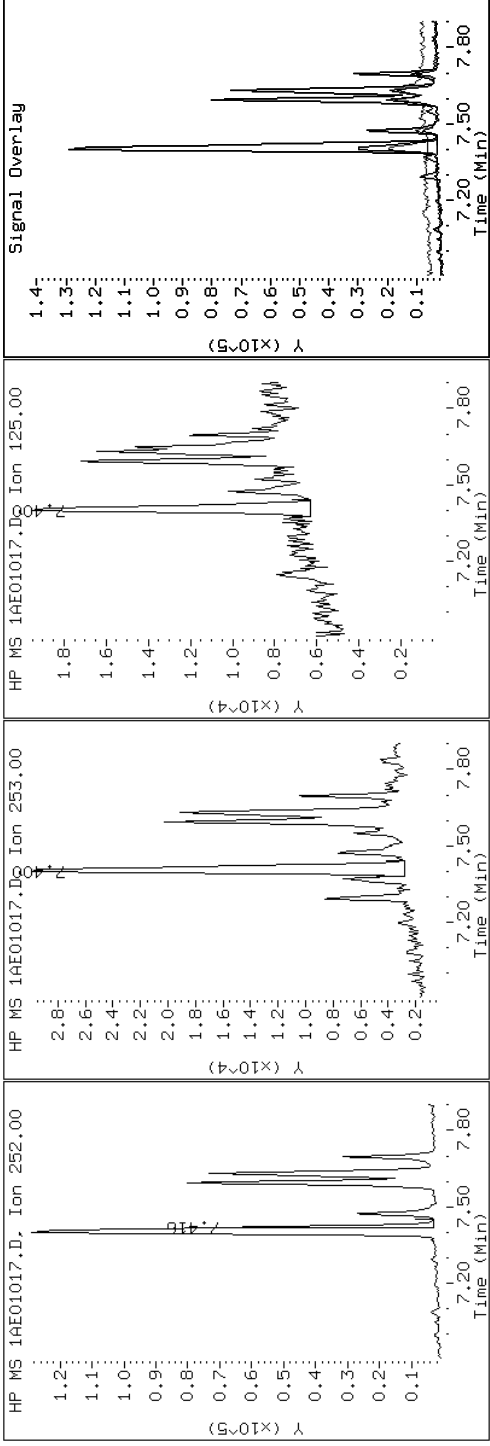
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

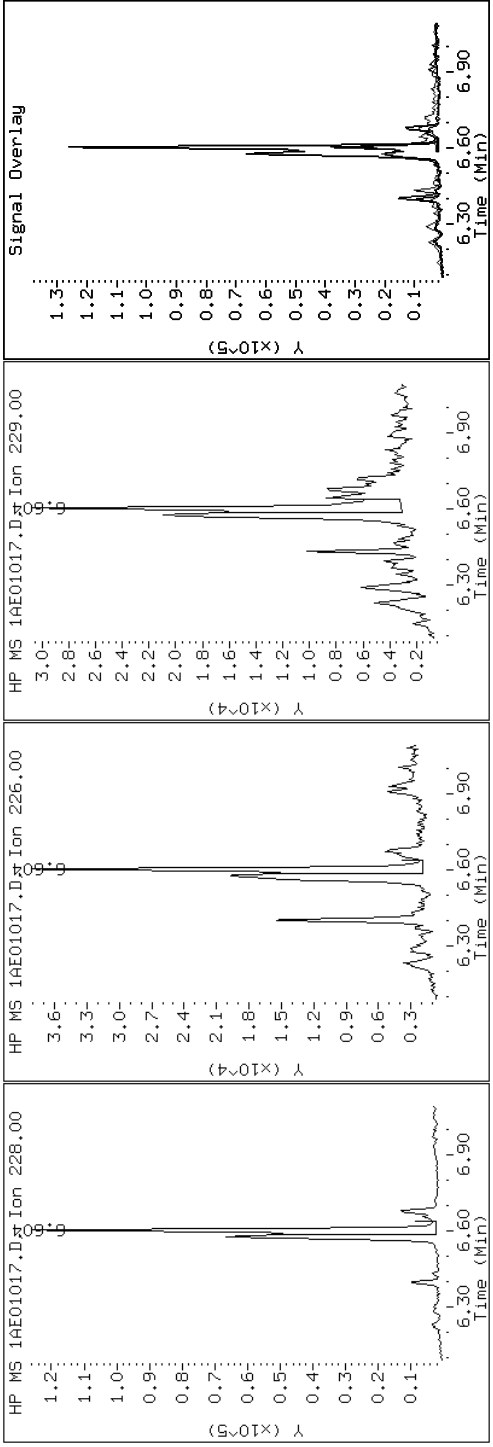
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

19 Chrysene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

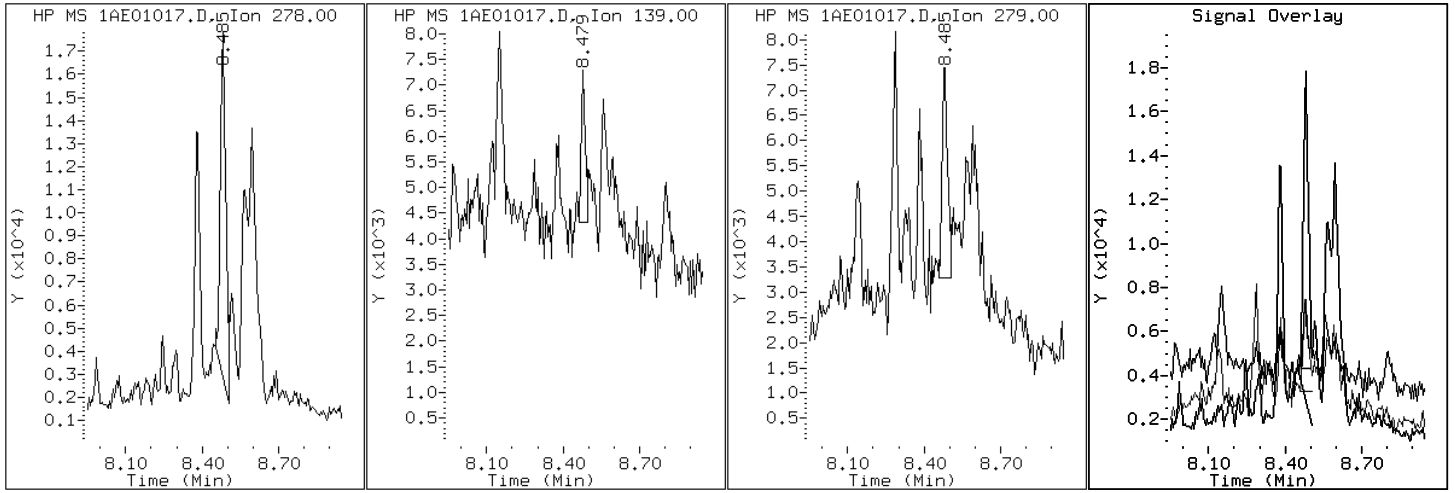
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

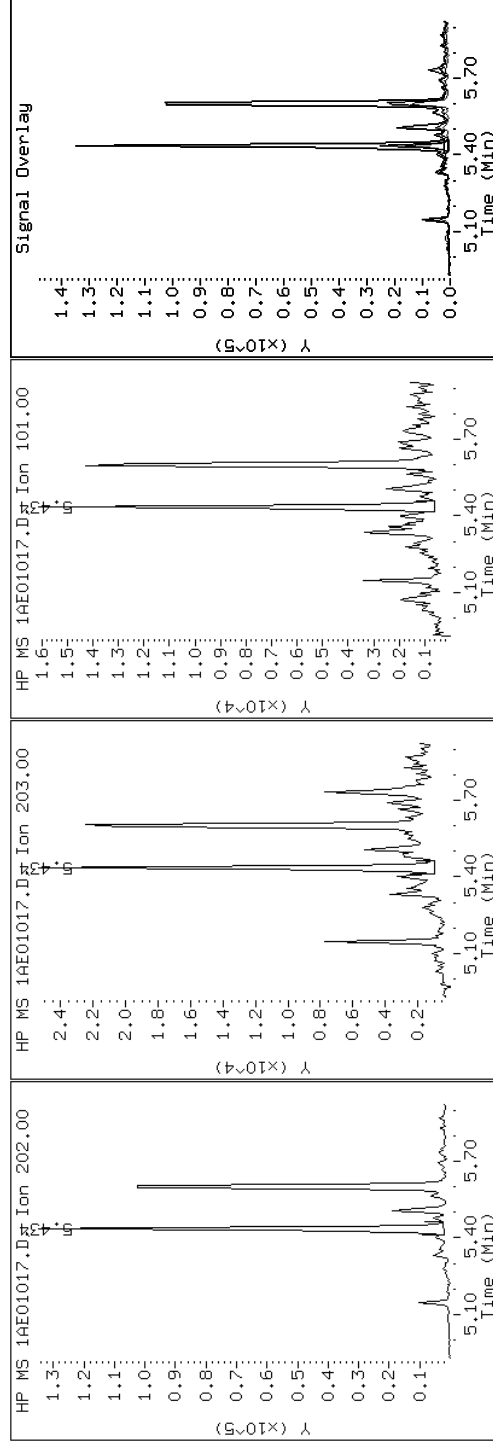
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

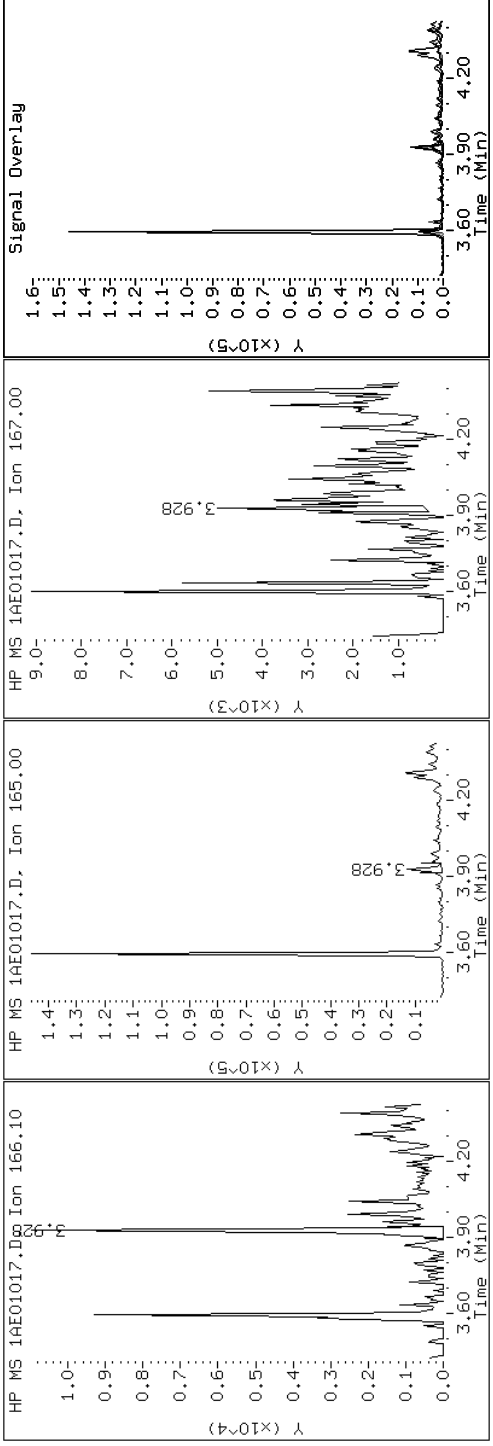
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

9 Fluorene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

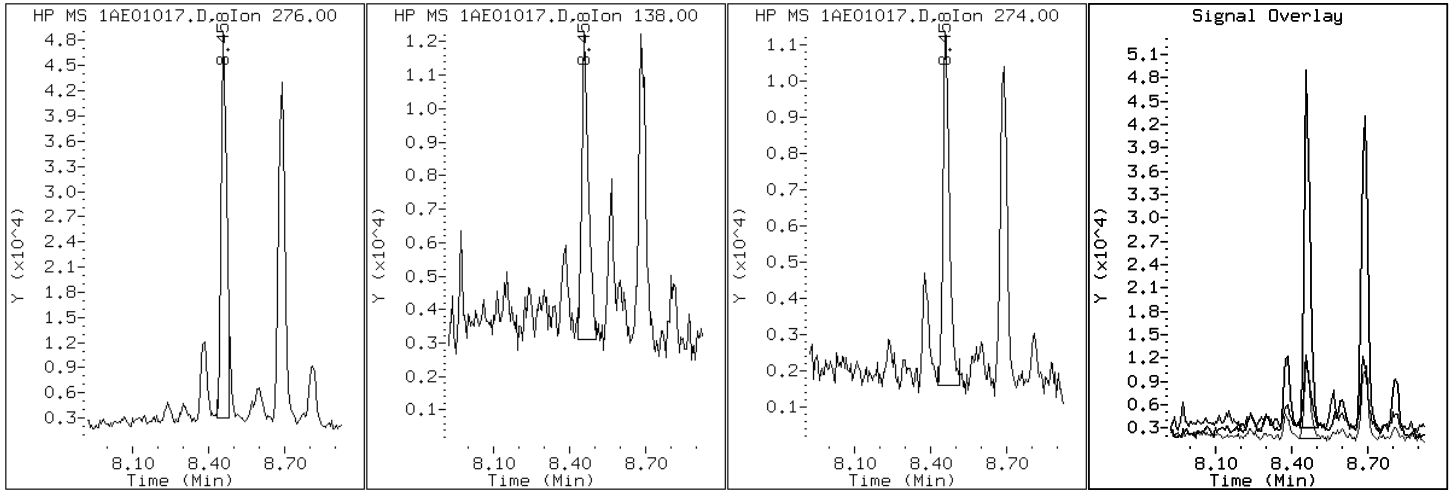
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

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



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

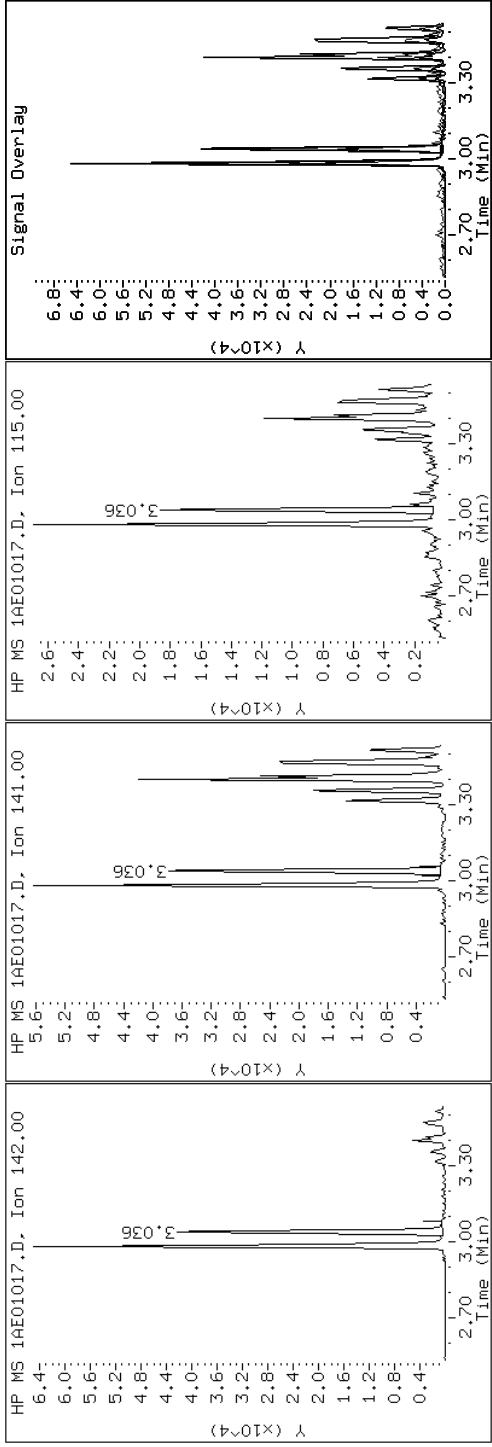
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

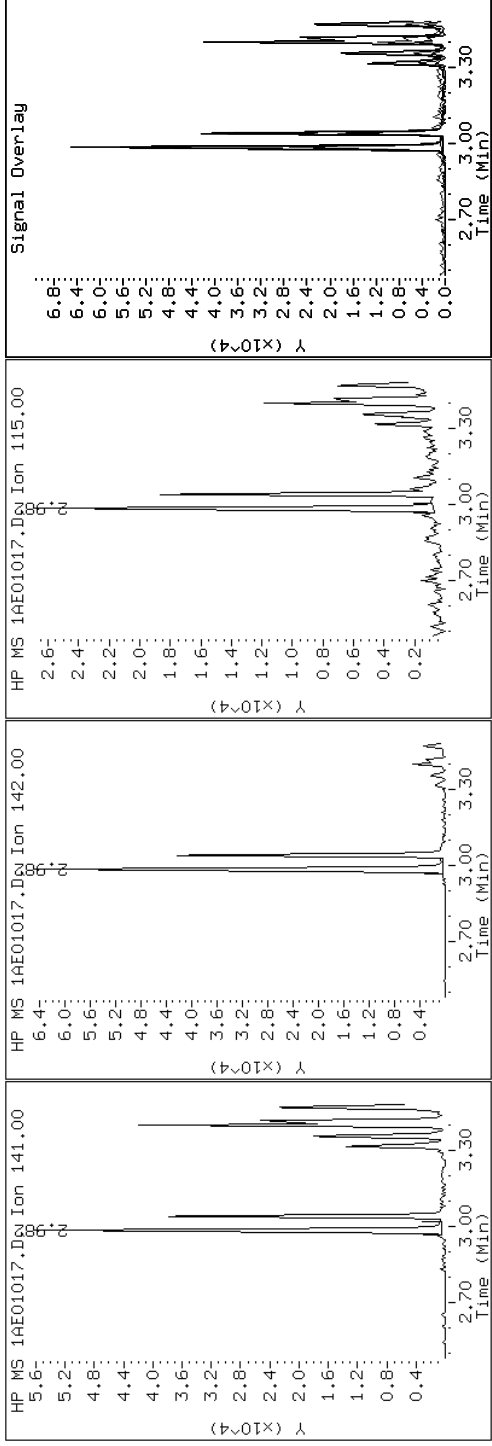
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

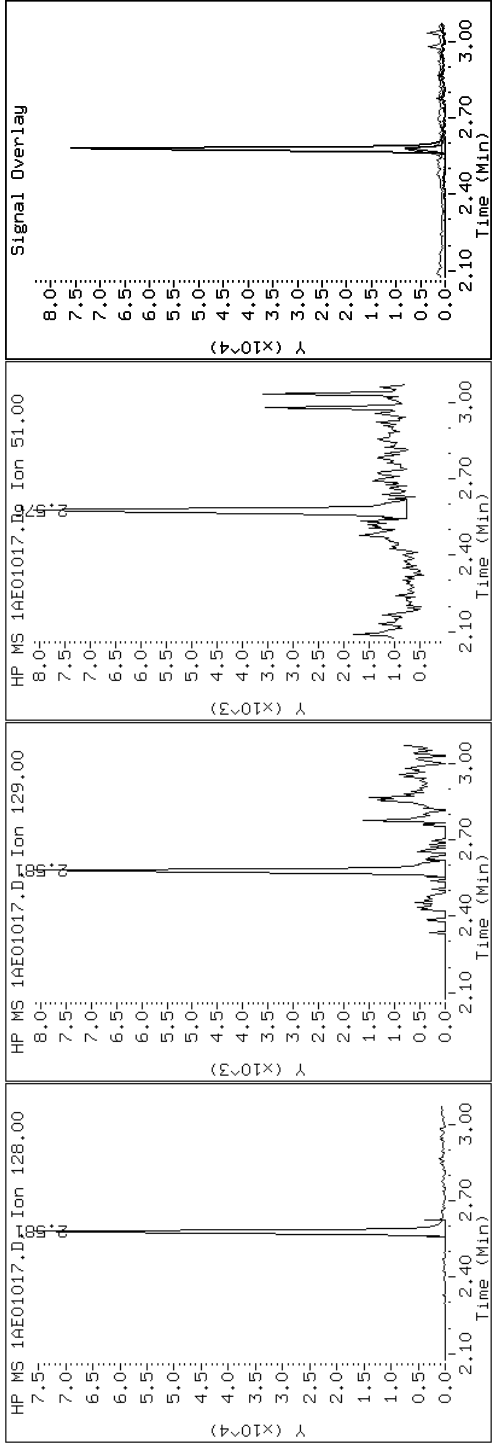
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

2 Naphthalene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

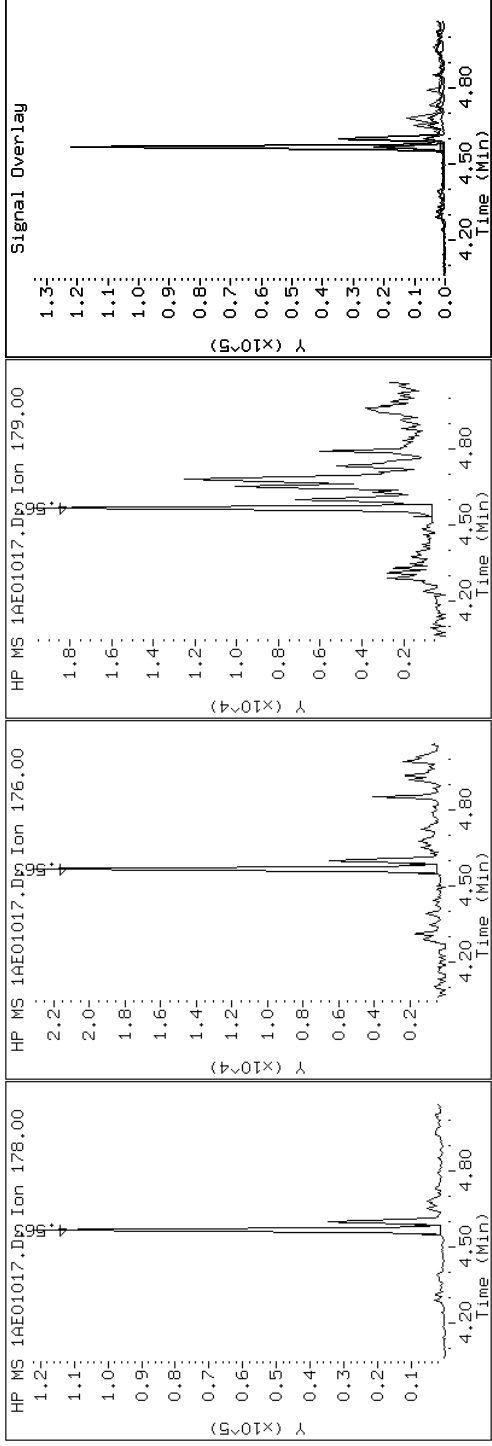
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01017.D

Date: 01-MAY-2013 17:03

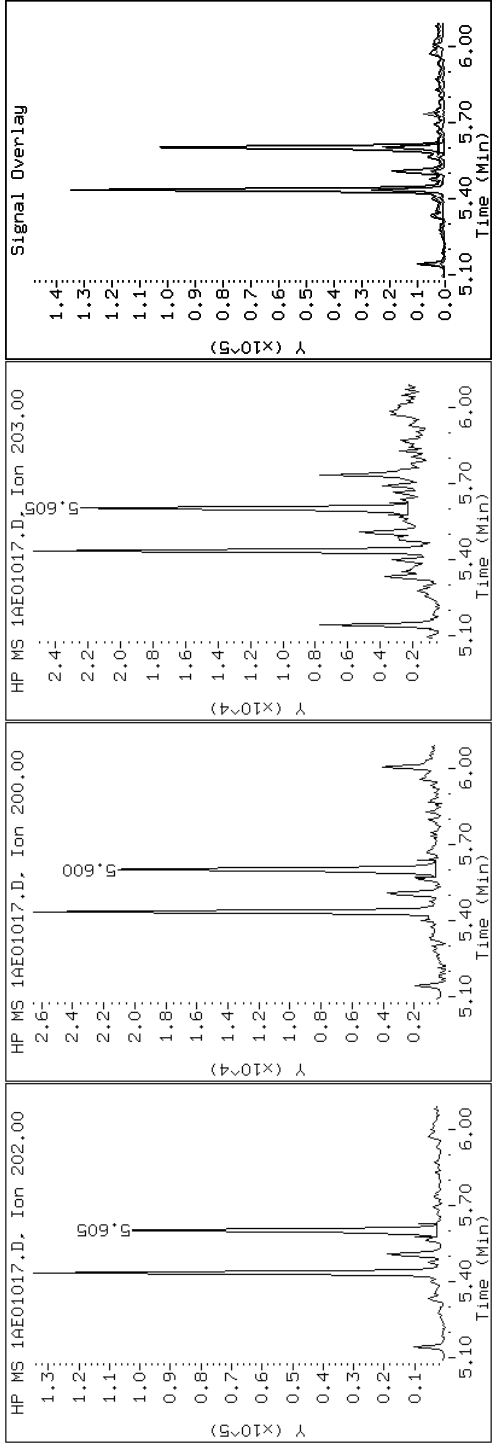
Client ID: CV0686A-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-29-a

Operator: SCC

16 Pyrene

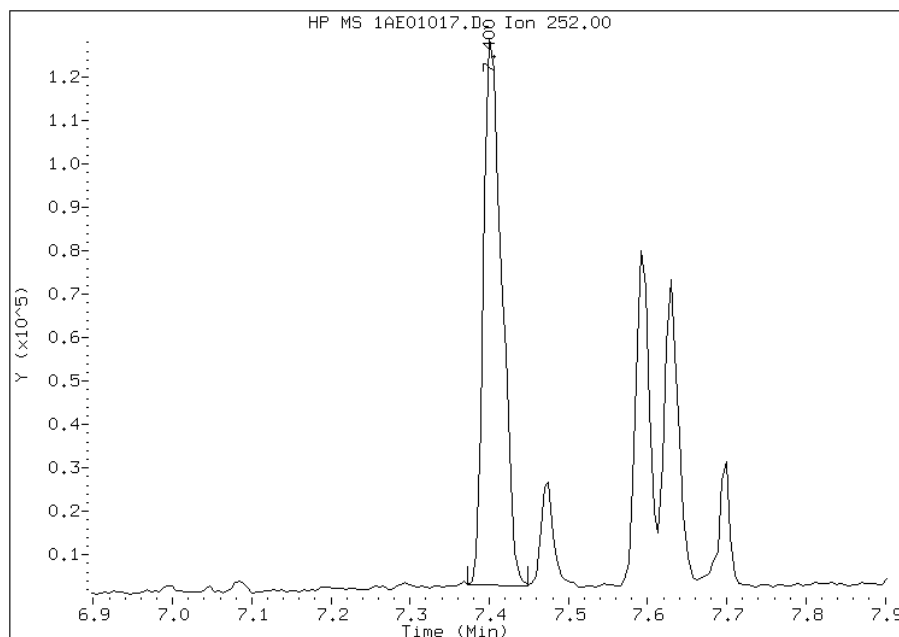


Manual Integration Report

Data File: 1AE01017.D
Inj. Date and Time: 01-MAY-2013 17:03
Instrument ID: BSMA5973.i
Client ID: CV0686A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/05/2013

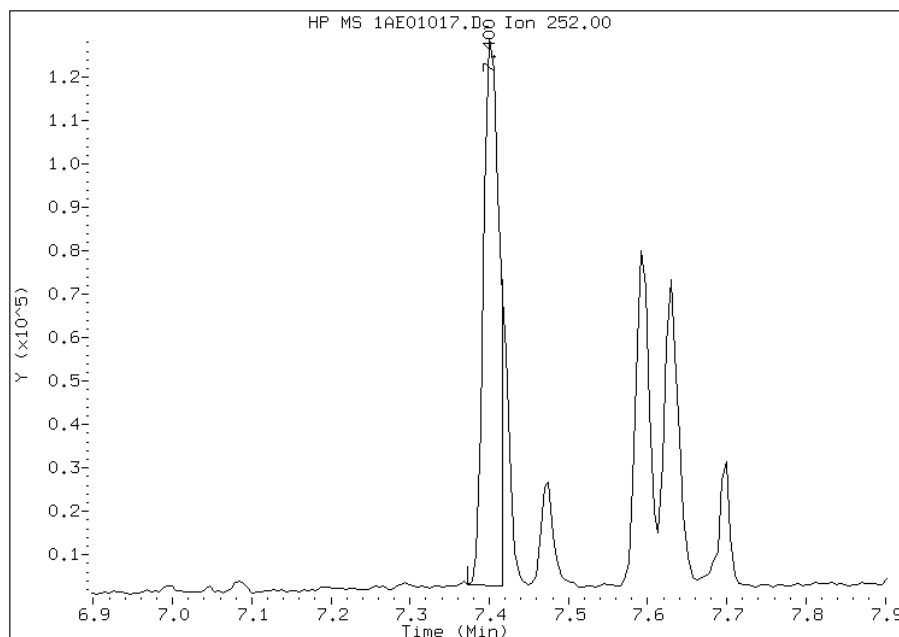
Processing Integration Results

RT: 7.40
Response: 200728
Amount: 4
Conc: 386



Manual Integration Results

RT: 7.40
Response: 171892
Amount: 4
Conc: 331



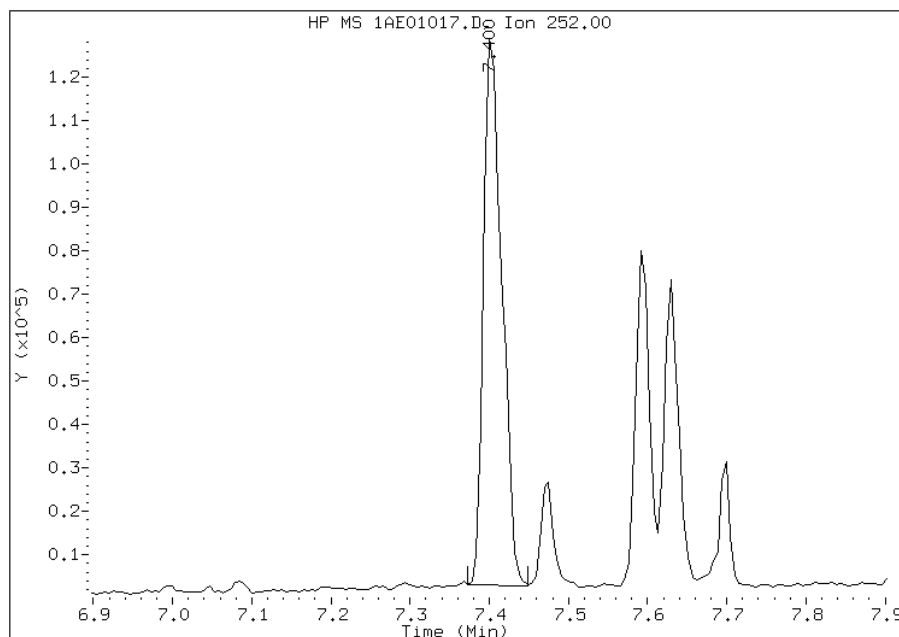
Manually Integrated By: cantins
Modification Date: 05-May-2013 17:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE01017.D
Inj. Date and Time: 01-MAY-2013 17:03
Instrument ID: BSMA5973.i
Client ID: CV0686A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/05/2013

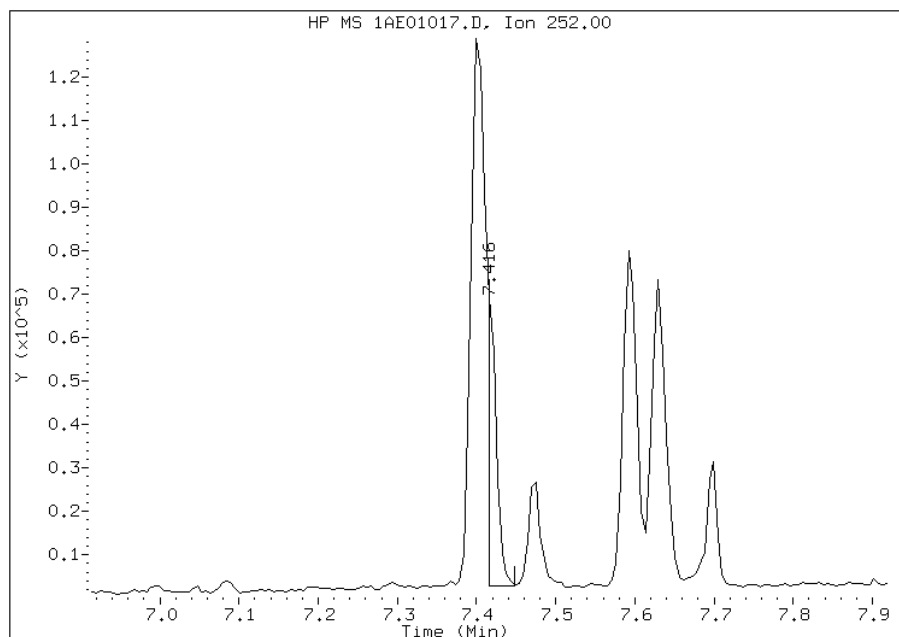
Processing Integration Results

RT: 7.40
Response: 200728
Amount: 4
Conc: 336



Manual Integration Results

RT: 7.42
Response: 49923
Amount: 1
Conc: 83



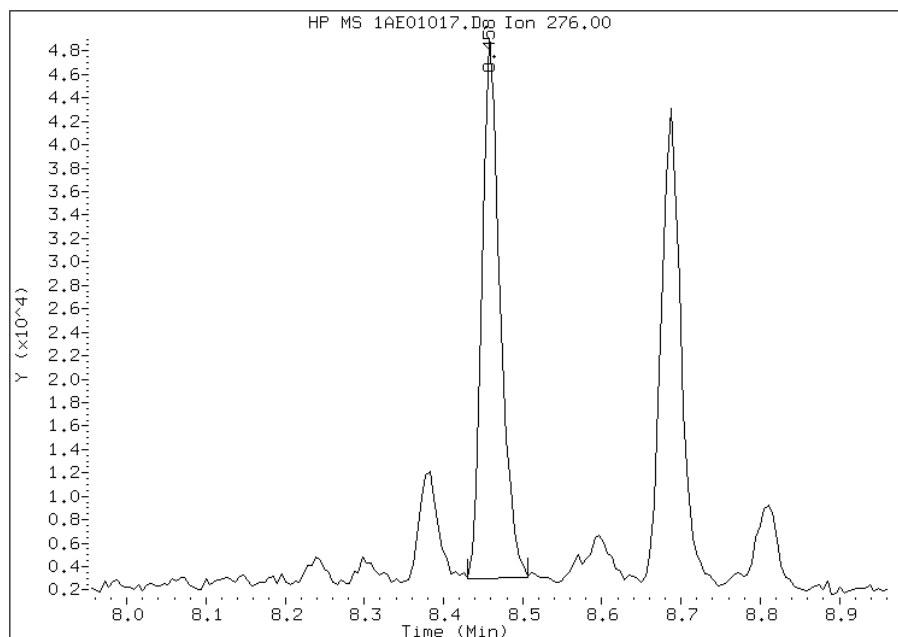
Manually Integrated By: cantins
Modification Date: 05-May-2013 17:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE01017.D
Inj. Date and Time: 01-MAY-2013 17:03
Instrument ID: BSMA5973.i
Client ID: CV0686A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/05/2013

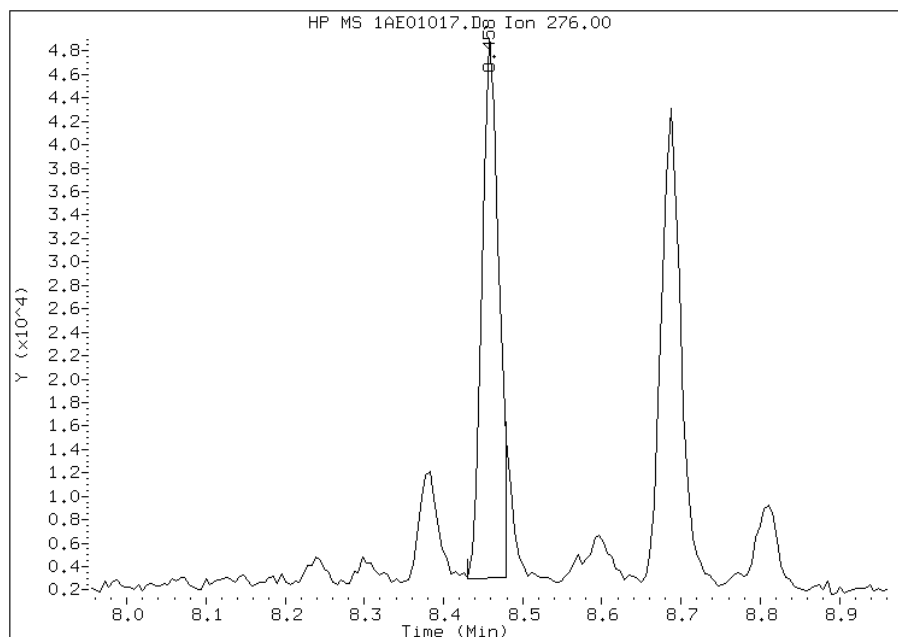
Processing Integration Results

RT: 8.46
Response: 72453
Amount: 2
Conc: 148



Manual Integration Results

RT: 8.46
Response: 67743
Amount: 2
Conc: 139



Manually Integrated By: cantins
Modification Date: 05-May-2013 17:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV0686B-CS-SP Lab Sample ID: 680-89695-30
 Matrix: Solid Lab File ID: 1AE01018.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 15:03
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27
 Sample wt/vol: 14.91(g) Date Analyzed: 05/01/2013 17:18
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 15.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	48	U	48	5.9
120-12-7	Anthracene	10	U	10	5.0
56-55-3	Benzo[a]anthracene	24		9.5	4.6
50-32-8	Benzo[a]pyrene	19		12	6.2
205-99-2	Benzo[b]fluoranthene	32		15	7.3
191-24-2	Benzo[g,h,i]perylene	17	J	24	5.2
207-08-9	Benzo[k]fluoranthene	12		9.5	4.3
218-01-9	Chrysene	26		11	5.4
53-70-3	Dibenz(a,h)anthracene	5.0	J	24	4.9
206-44-0	Fluoranthene	22	J	24	4.8
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	16	J	24	8.4
90-12-0	1-Methyl-naphthalene	19	J	48	5.2
91-57-6	2-Methyl-naphthalene	22	J	48	8.4
91-20-3	Naphthalene	20	J	48	5.2
85-01-8	Phenanthrene	28		9.5	4.6
129-00-0	Pyrene	19	J	24	4.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	51		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01018.D
 Lab Smp Id: 680-89695-A-30-A Client Smp ID: CV0686B-CS-SP
 Inj Date : 01-MAY-2013 17:18
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-30-a
 Misc Info : 680-89695-A-30-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 15
 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	15.449	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.565	2.563	(1.000)	1519567	40.0000		
* 6 Acenaphthene-d10	164		3.596	3.594	(1.000)	779231	40.0000		
* 10 Phenanthrene-d10	188		4.553	4.544	(1.000)	1208045	40.0000		
\$ 14 o-Terphenyl	230		4.852	4.844	(1.066)	101396	5.13156	407.0541	
* 18 Chrysene-d12	240		6.583	6.574	(1.000)	1220229	40.0000		
* 23 Perylene-d12	264		7.678	7.659	(1.000)	1505870	40.0000		
2 Naphthalene	128		2.576	2.573	(1.004)	9616	0.25315	20.0804	
3 2-Methylnaphthalene	141		2.982	2.979	(1.162)	6068	0.27863	22.1016	
4 1-Methylnaphthalene	142		3.035	3.033	(1.183)	5870	0.24328	19.2979	
11 Phenanthrene	178		4.563	4.560	(1.002)	12513	0.35757	28.3636	
15 Fluoranthene	202		5.434	5.426	(1.194)	11399	0.28202	22.3705	
16 Pyrene	202		5.600	5.592	(0.851)	11174	0.24003	19.0400	
17 Benzo(a)anthracene	228		6.577	6.558	(0.999)	11854	0.29747	23.5965	
19 Chrysene	228		6.599	6.590	(1.002)	13393	0.33128	26.2785	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
=====	=====	=====	=====	=====	=====	=====	=====
20 Benzo(b)fluoranthene	252	7.395	7.381	(0.963)	18459	0.40376	32.0280(M)
21 Benzo(k)fluoranthene	252	7.405	7.402	(0.965)	7744	0.14733	11.6865(QM)
22 Benzo(a)pyrene	252	7.619	7.605	(0.992)	10643	0.23401	18.5627
24 Indeno(1,2,3-cd)pyrene	276	8.436	8.423	(1.099)	8913	0.20755	16.4640
25 Dibenzo(a,h)anthracene	278	8.463	8.450	(1.102)	2539	0.06354	5.0405
26 Benzo(g,h,i)perylene	276	8.661	8.642	(1.128)	10054	0.20919	16.5938

QC Flag Legend

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

Data File: 1AE01018.D

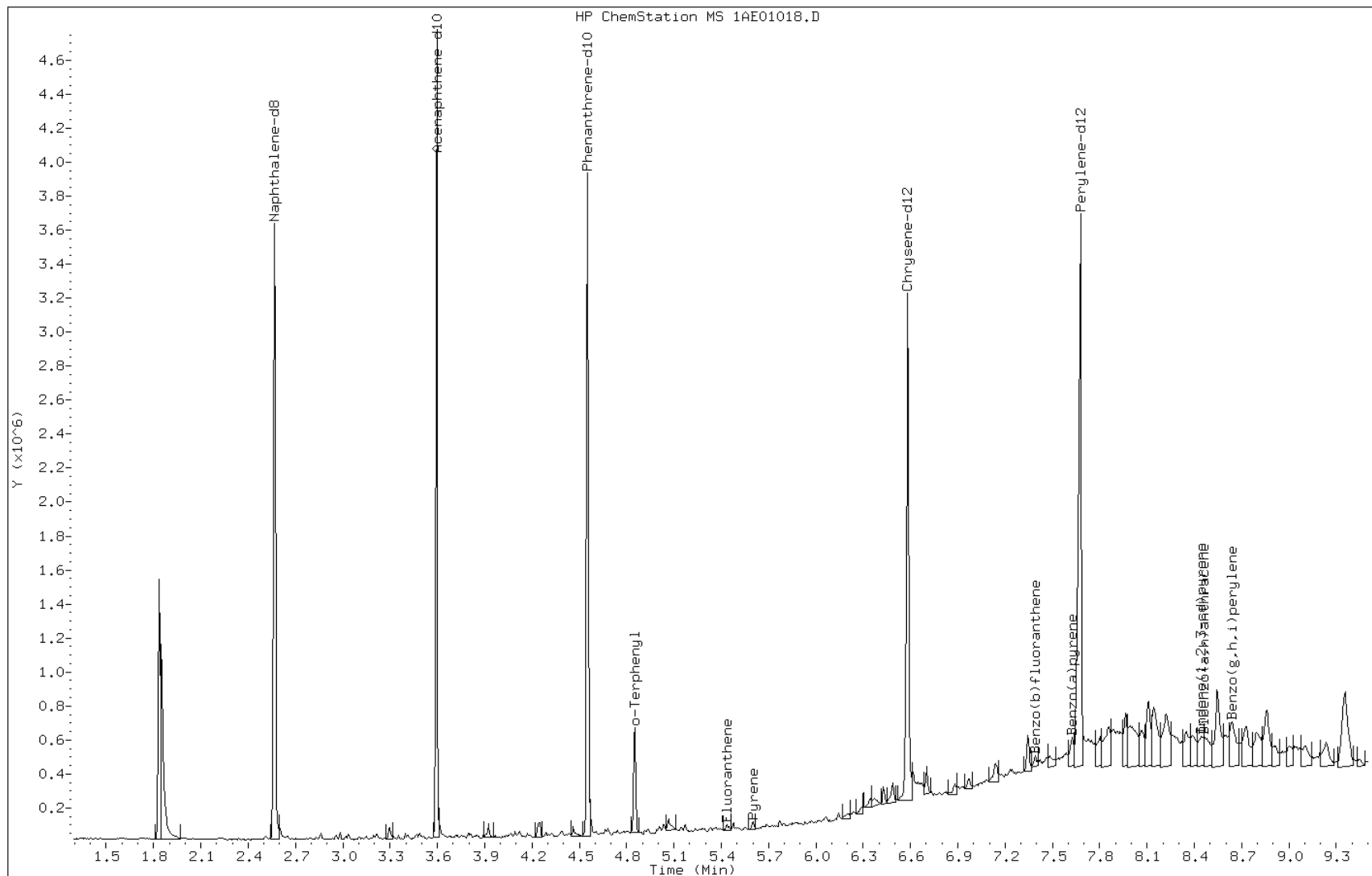
Date: 01-MAY-2013 17:18

Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

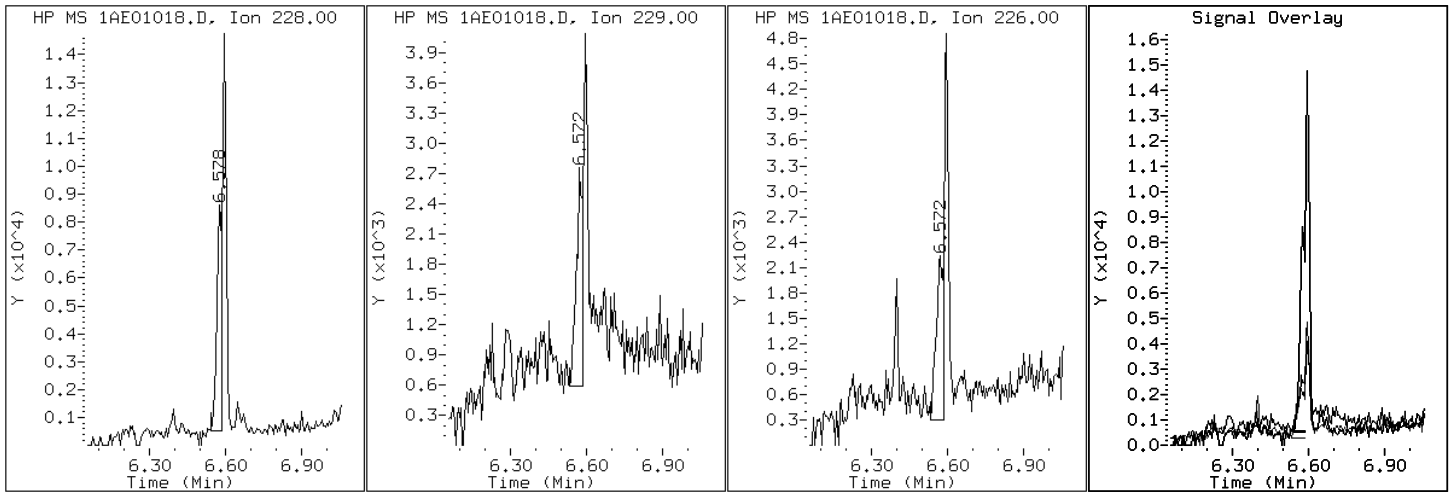
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

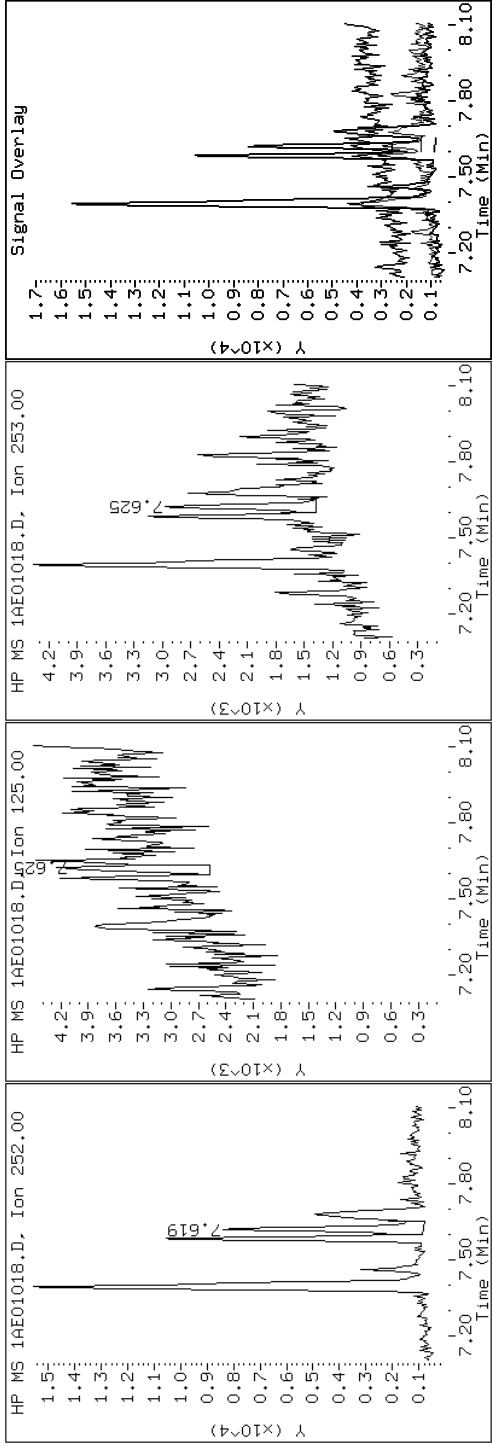
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

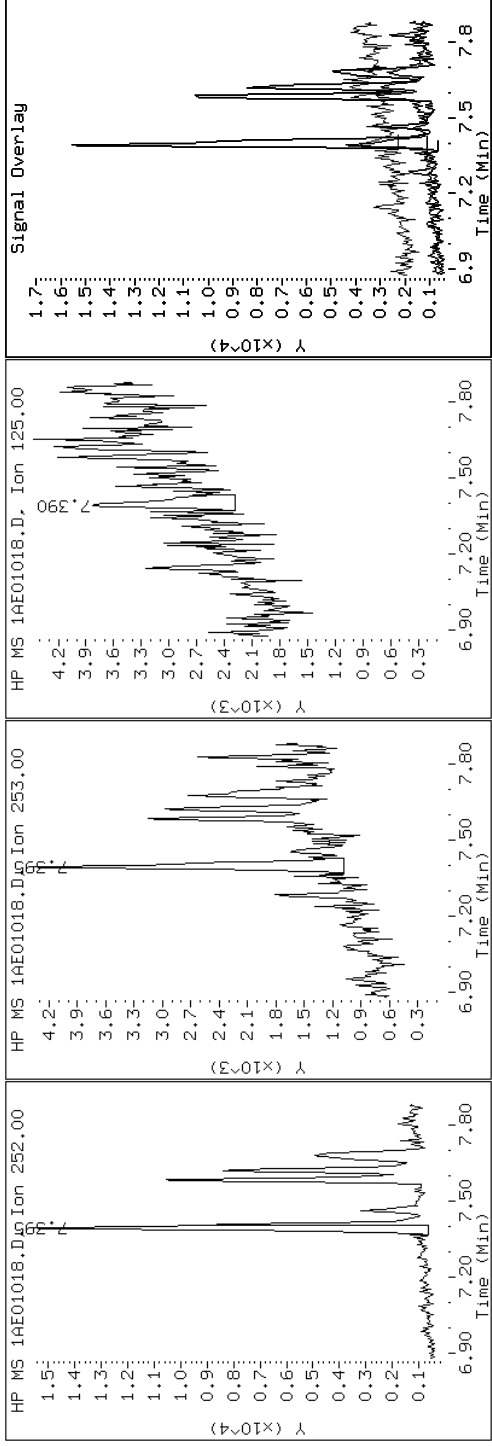
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

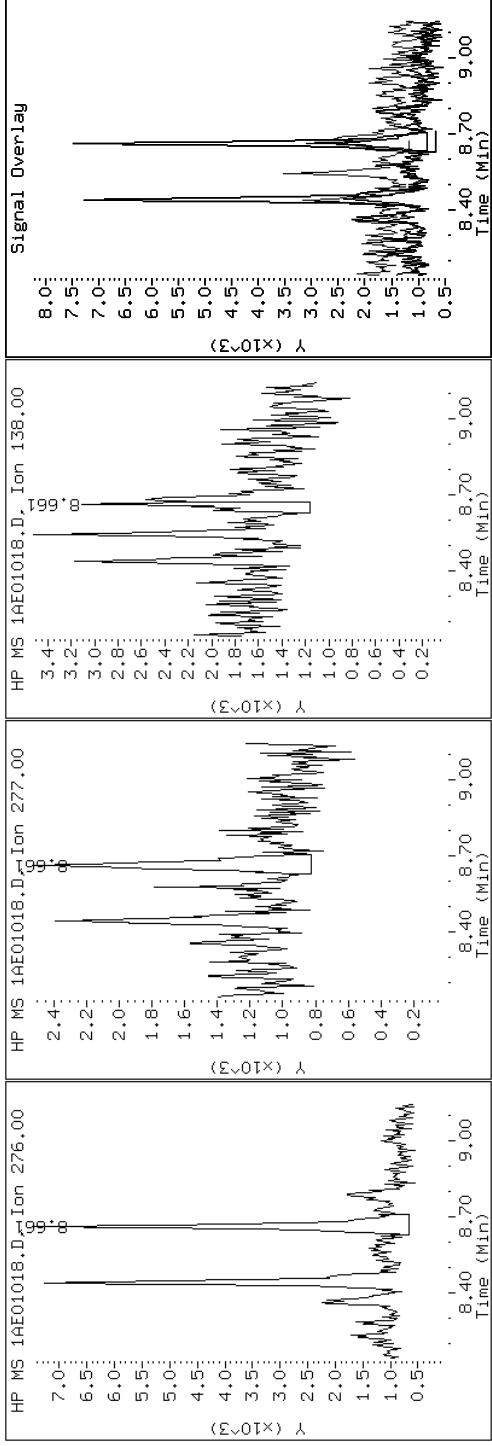
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

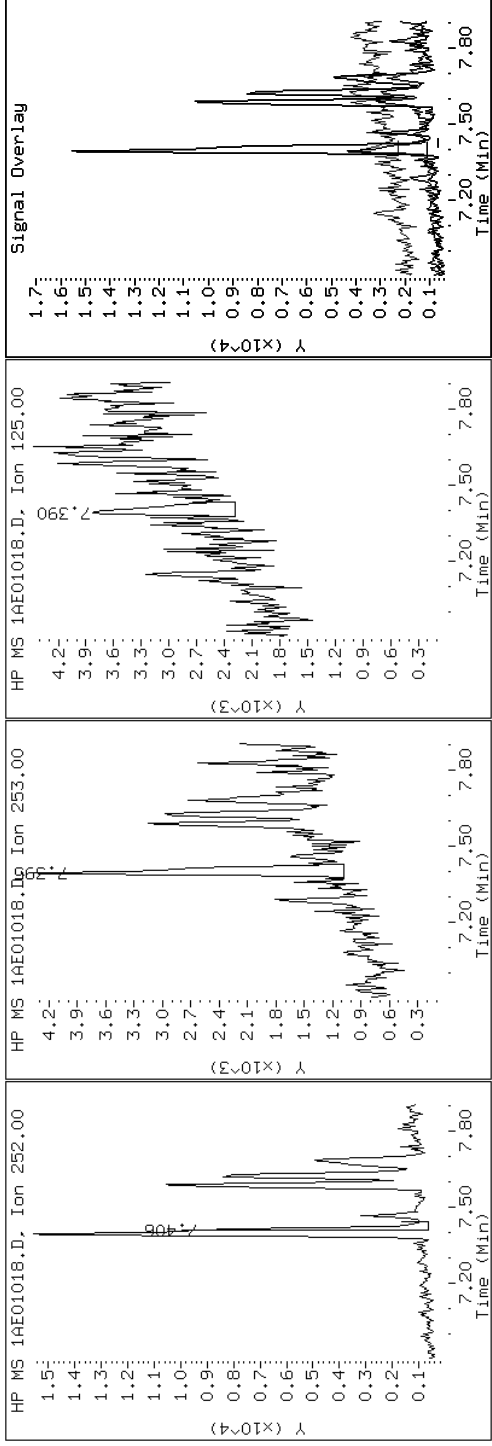
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

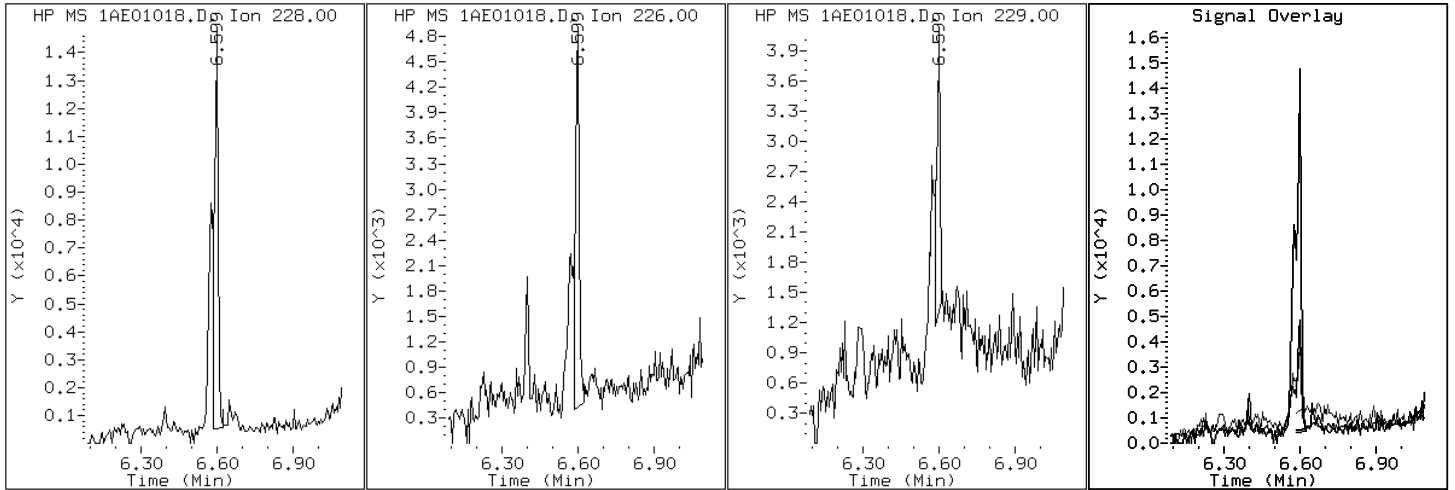
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

19 Chrysene



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

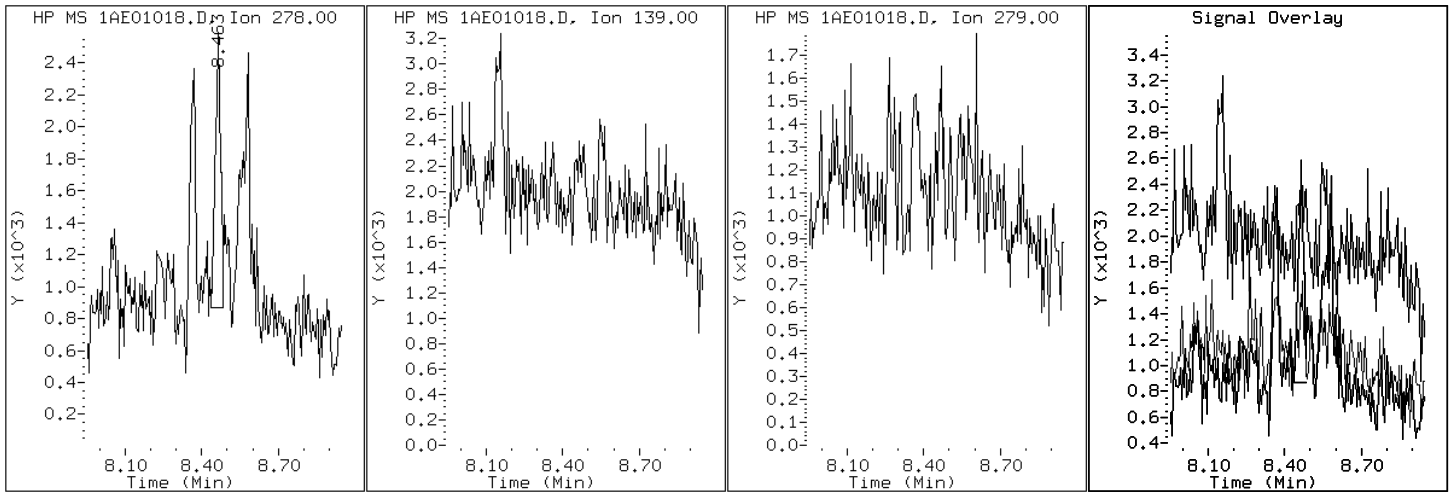
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

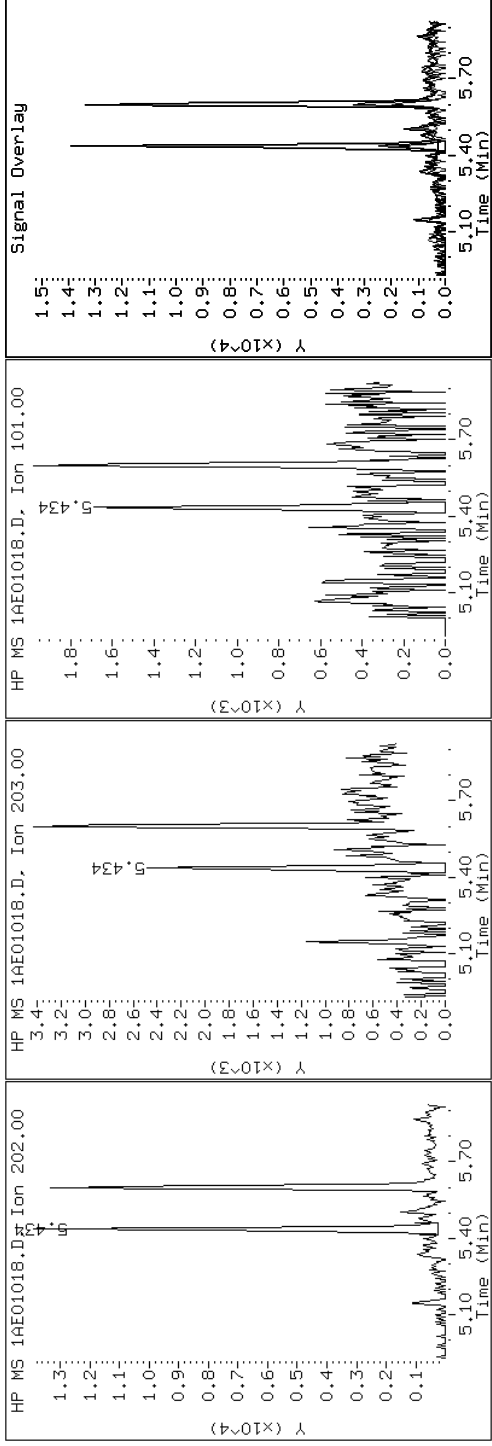
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

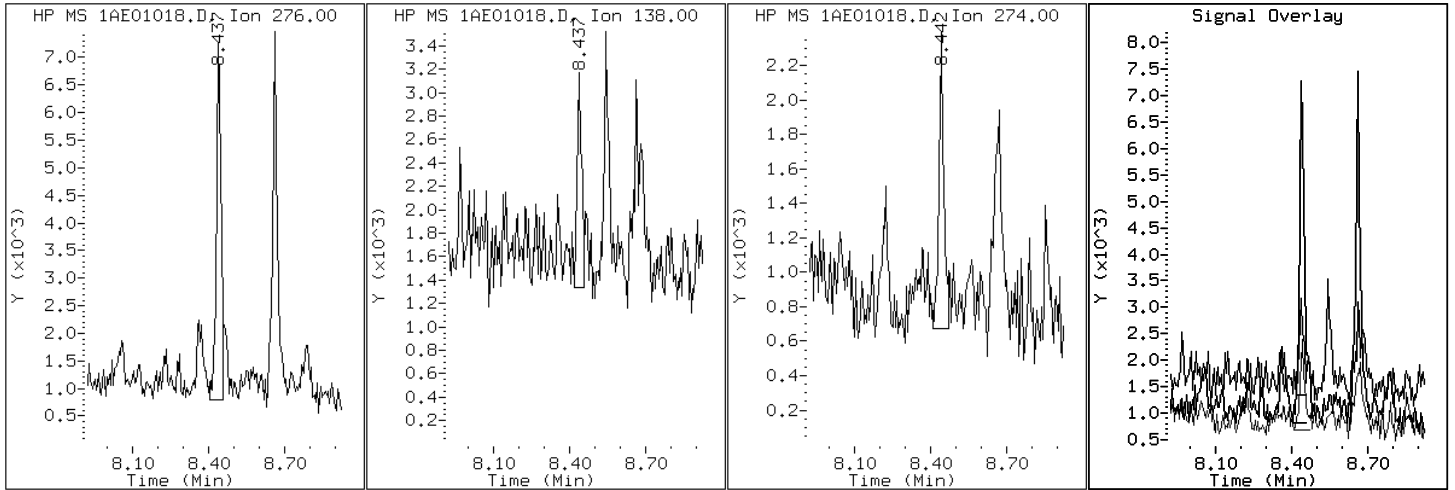
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

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



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

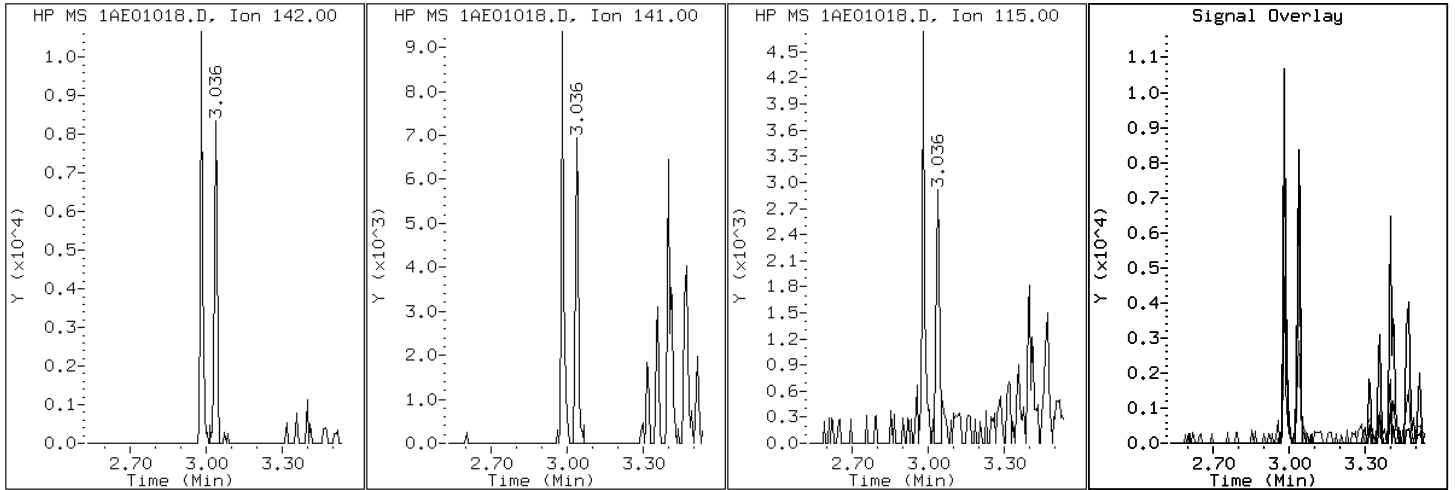
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

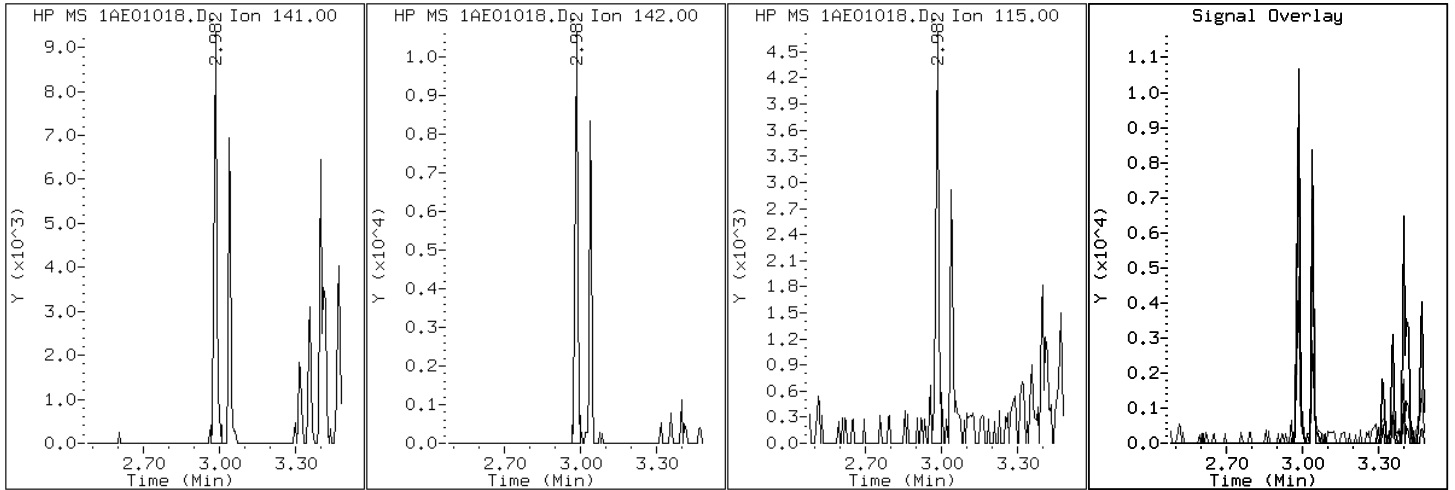
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

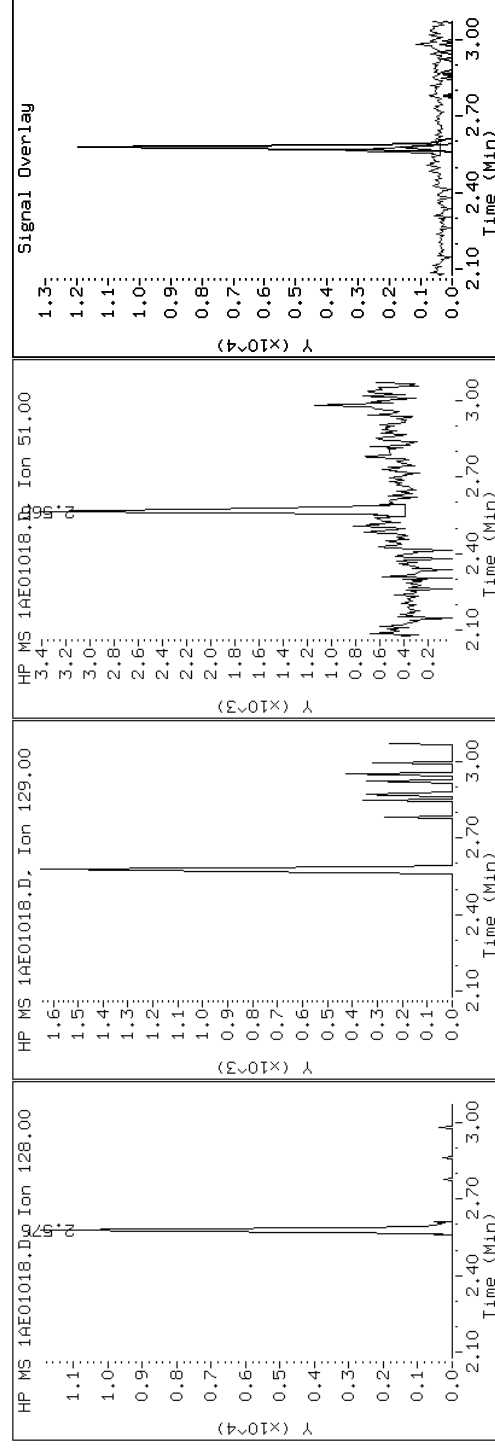
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

2 Naphthalene



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

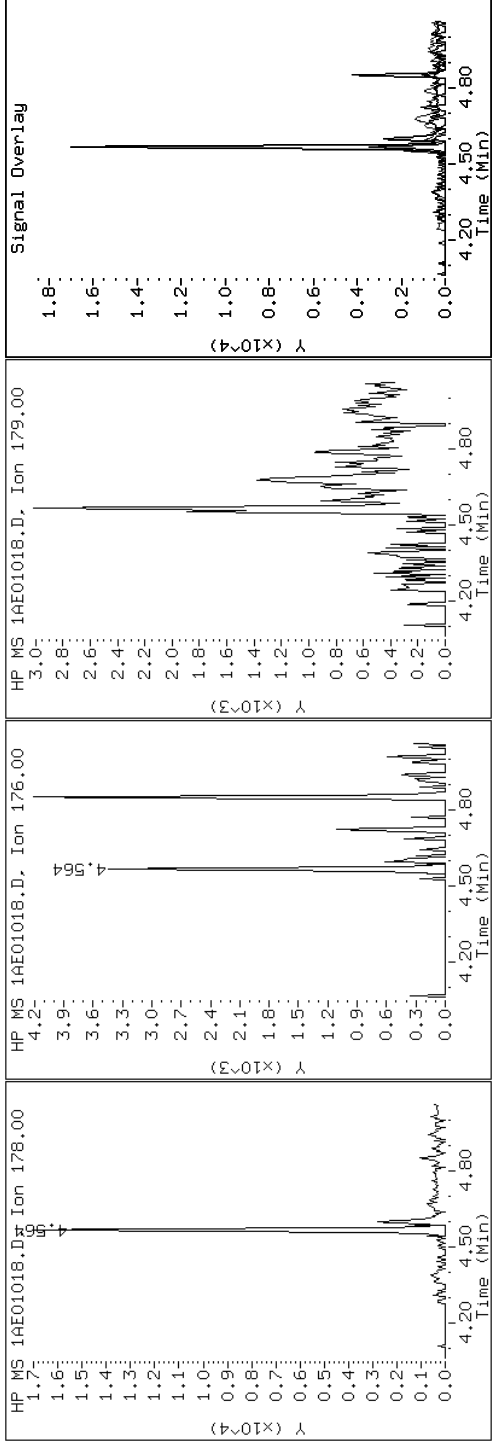
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01018.D

Date: 01-MAY-2013 17:18

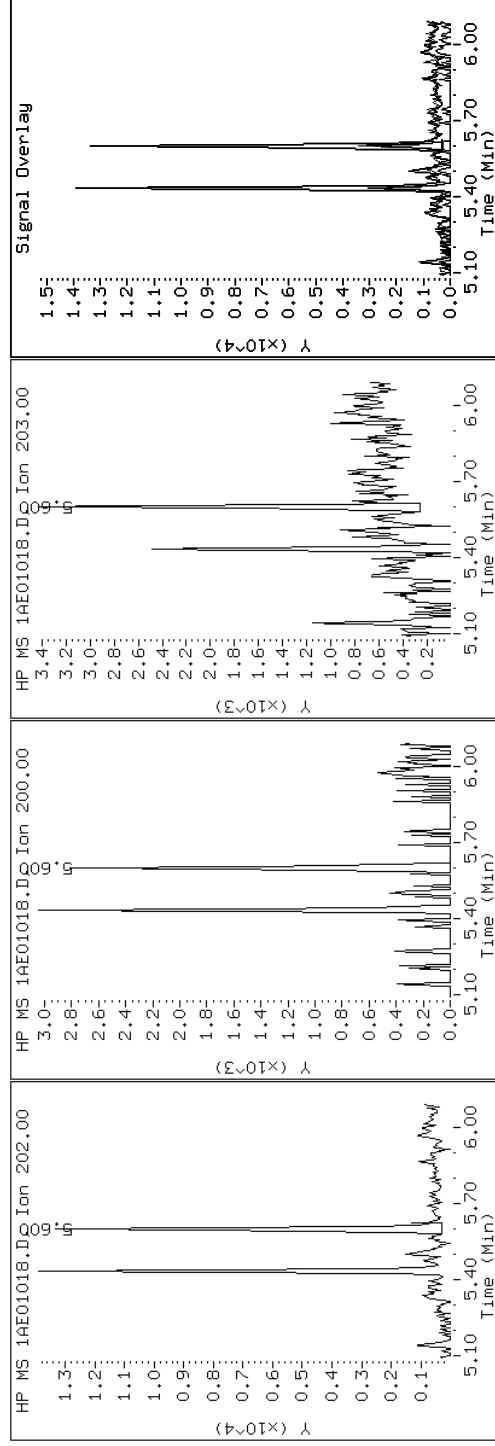
Client ID: CV0686B-CS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-30-a

Operator: SCC

16 Pyrene

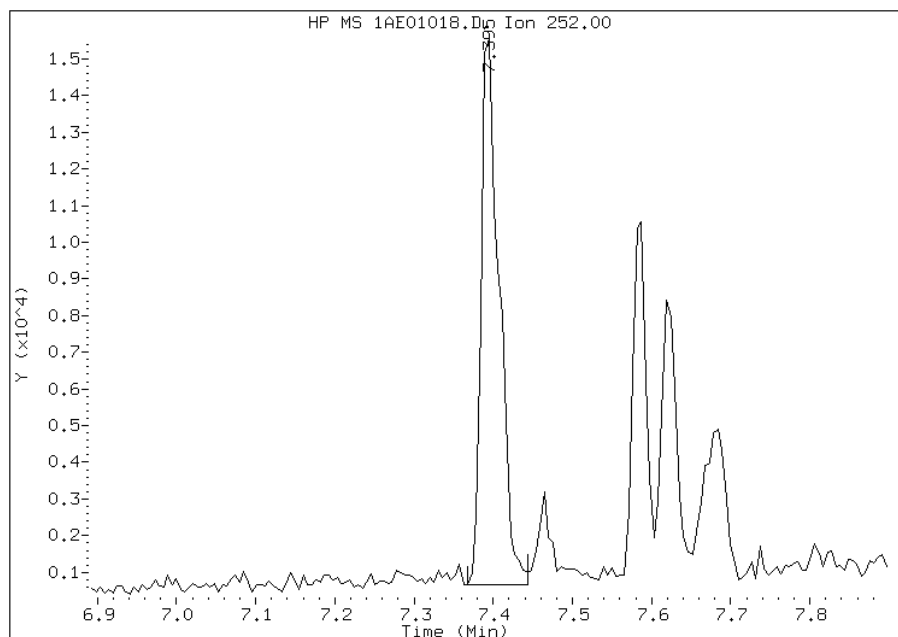


Manual Integration Report

Data File: 1AE01018.D
Inj. Date and Time: 01-MAY-2013 17:18
Instrument ID: BSMA5973.i
Client ID: CV0686B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/05/2013

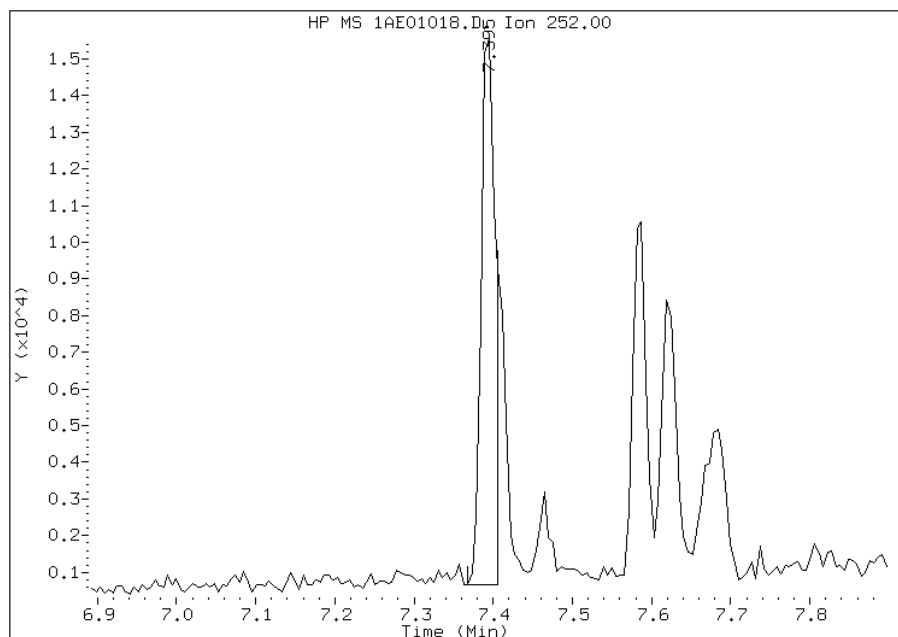
Processing Integration Results

RT: 7.40
Response: 23414
Amount: 1
Conc: 41



Manual Integration Results

RT: 7.40
Response: 18459
Amount: 0
Conc: 32



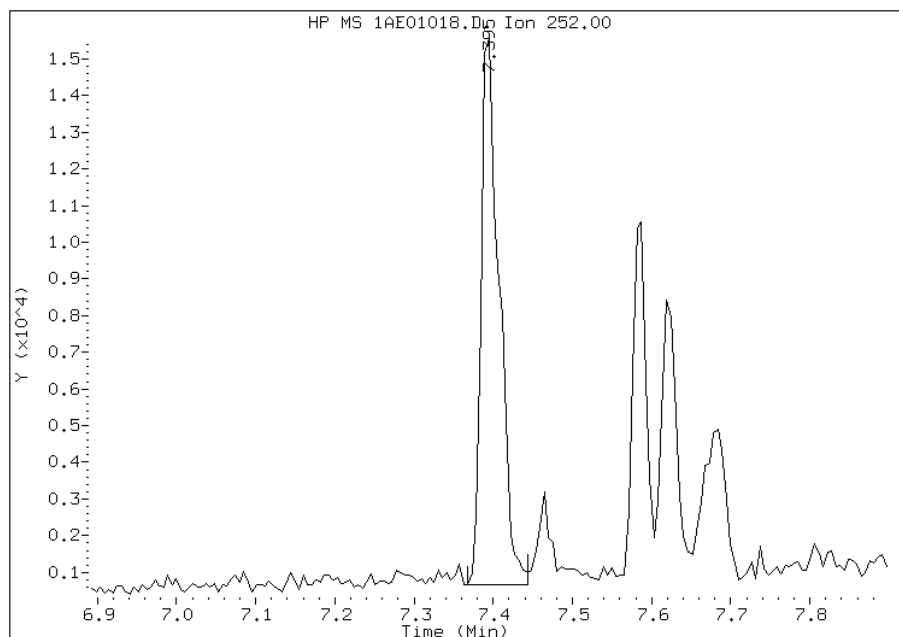
Manually Integrated By: cantins
Modification Date: 05-May-2013 17:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE01018.D
Inj. Date and Time: 01-MAY-2013 17:18
Instrument ID: BSMA5973.i
Client ID: CV0686B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/05/2013

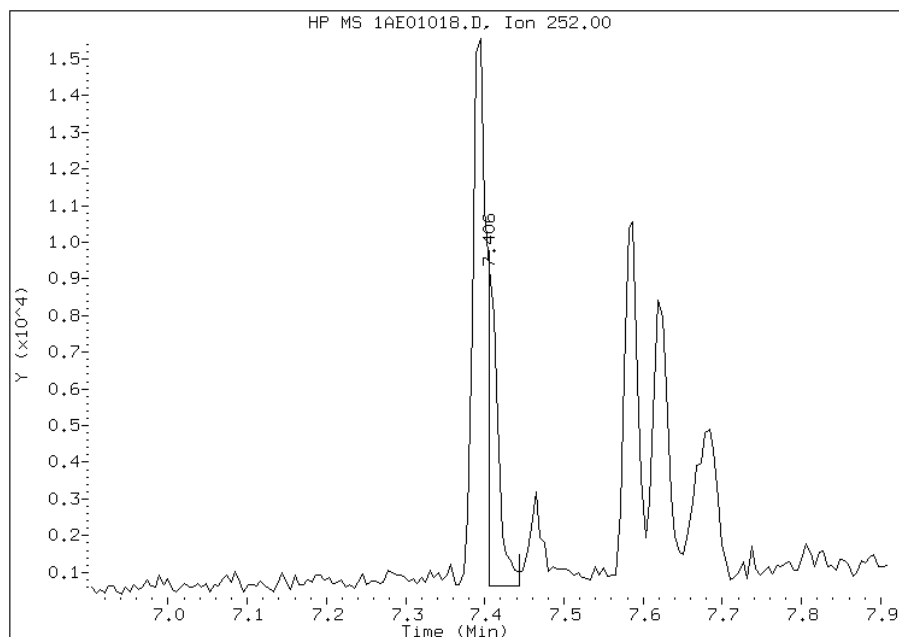
Processing Integration Results

RT: 7.40
Response: 23414
Amount: 0
Conc: 35



Manual Integration Results

RT: 7.41
Response: 7744
Amount: 0
Conc: 12



Manually Integrated By: cantins
Modification Date: 05-May-2013 17:04
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV0686C-GS-SP Lab Sample ID: 680-89695-31
 Matrix: Solid Lab File ID: 1AE01019.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 15:22
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27
 Sample wt/vol: 14.89(g) Date Analyzed: 05/01/2013 17:33
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 19.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	500	U	500	100
208-96-8	Acenaphthylene	46	J	200	25
120-12-7	Anthracene	85		42	21
56-55-3	Benzo[a]anthracene	220		40	19
50-32-8	Benzo[a]pyrene	180		52	26
205-99-2	Benzo[b]fluoranthene	270		61	30
191-24-2	Benzo[g,h,i]perylene	160		100	22
207-08-9	Benzo[k]fluoranthene	68		40	18
218-01-9	Chrysene	280		45	22
53-70-3	Dibenz(a,h)anthracene	44	J	100	20
206-44-0	Fluoranthene	310		100	20
86-73-7	Fluorene	49	J	100	20
193-39-5	Indeno[1,2,3-cd]pyrene	120		100	35
90-12-0	1-Methylnaphthalene	180	J	200	22
91-57-6	2-Methylnaphthalene	220		200	35
91-20-3	Naphthalene	260		200	22
85-01-8	Phenanthrene	340		40	19
129-00-0	Pyrene	290		100	18

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01019.D
 Lab Smp Id: 680-89695-A-31-A Client Smp ID: CV0686C-GS-SP
 Inj Date : 01-MAY-2013 17:33
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-31-a
 Misc Info : 680-89695-A-31-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.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	14.890	Weight Extracted
M	19.114	% 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		2.570	2.563	(1.000)	1377472	40.0000	
* 6 Acenaphthene-d10	164		3.596	3.594	(1.000)	711049	40.0000	
* 10 Phenanthrene-d10	188		4.552	4.544	(1.000)	1151743	40.0000	
\$ 14 o-Terphenyl	230		4.851	4.844	(1.066)	24863	1.31980	438.3315
* 18 Chrysene-d12	240		6.582	6.574	(1.000)	1171481	40.0000	
* 23 Perylene-d12	264		7.682	7.659	(1.000)	1495750	40.0000	
2 Naphthalene	128		2.581	2.573	(1.004)	26637	0.77357	256.9160
3 2-Methylnaphthalene	141		2.981	2.979	(1.160)	13336	0.67552	224.3534
4 1-Methylnaphthalene	142		3.040	3.033	(1.183)	11538	0.52752	175.1984
5 Acenaphthylene	152		3.505	3.503	(0.975)	5746	0.13827	45.9228
9 Fluorene	166		3.927	3.925	(1.092)	3853	0.14695	48.8049(Q)
11 Phenanthrene	178		4.563	4.560	(1.002)	34591	1.03679	344.3357
12 Anthracene	178		4.600	4.593	(1.011)	8869	0.25566	84.9082(Q)
13 Carbazole	167		4.733	4.726	(1.040)	4484	0.13399	44.4991

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.433	5.426	(1.194)	35992	0.93399	310.1948
16 Pyrene	202	5.599	5.592	(0.851)	38482	0.86103	285.9649
17 Benzo(a)anthracene	228	6.576	6.558	(0.999)	25572	0.66842	221.9961
19 Chrysene	228	6.598	6.590	(1.002)	32289	0.83192	276.2960
20 Benzo(b)fluoranthene	252	7.394	7.381	(0.962)	37346	0.82242	273.1397(M)
21 Benzo(k)fluoranthene	252	7.410	7.402	(0.965)	10638	0.20375	67.6703(QM)
22 Benzo(a)pyrene	252	7.624	7.605	(0.992)	24270	0.53725	178.4298
24 Indeno(1,2,3-cd)pyrene	276	8.446	8.423	(1.099)	14974	0.35105	116.5918(M)
25 Dibenzo(a,h)anthracene	278	8.468	8.450	(1.102)	5215	0.13140	43.6406
26 Benzo(g,h,i)perylene	276	8.671	8.642	(1.129)	23062	0.48309	160.4438

QC Flag Legend

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

Data File: 1AE01019.D

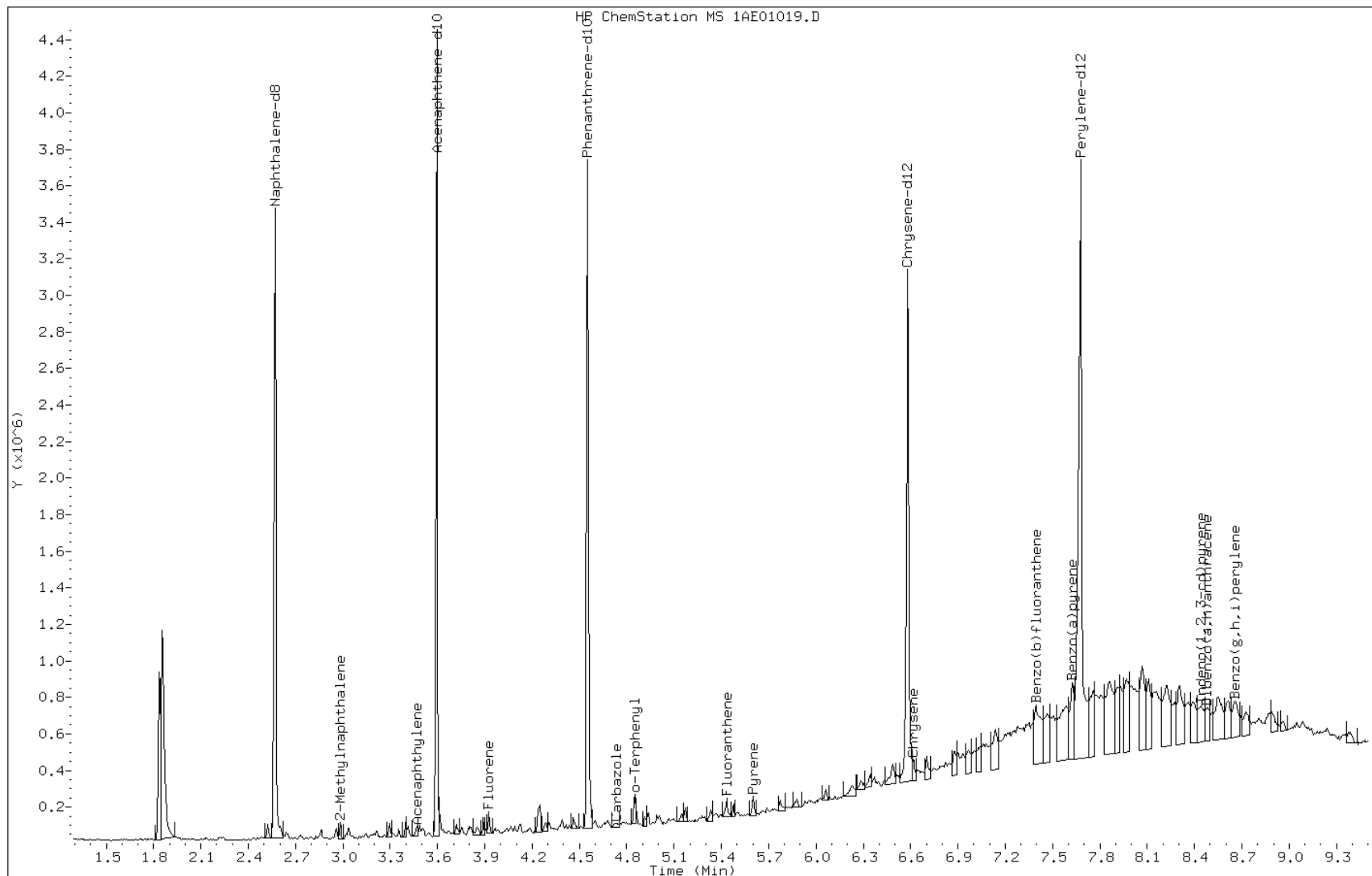
Date: 01-MAY-2013 17:33

Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

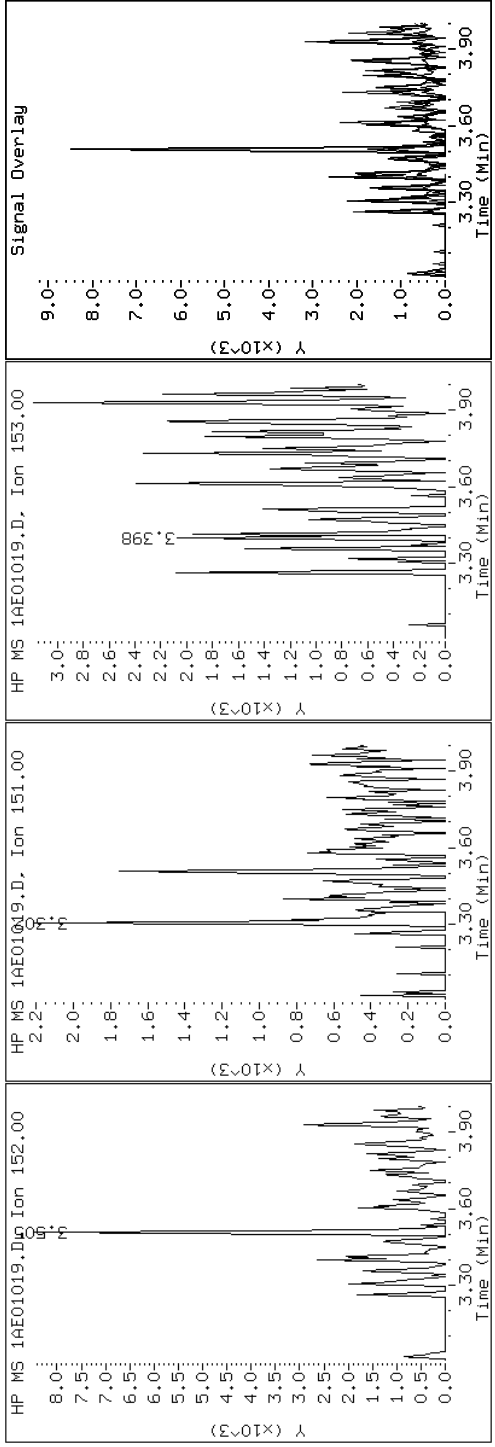
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

5 Acenaphthylene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

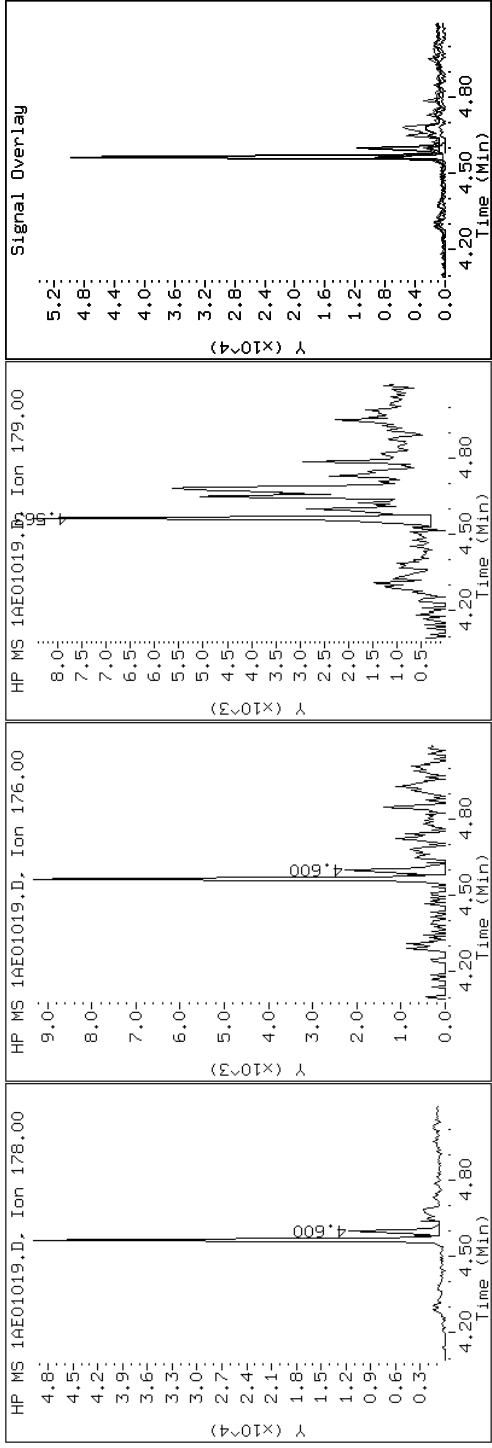
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

12 Anthracene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

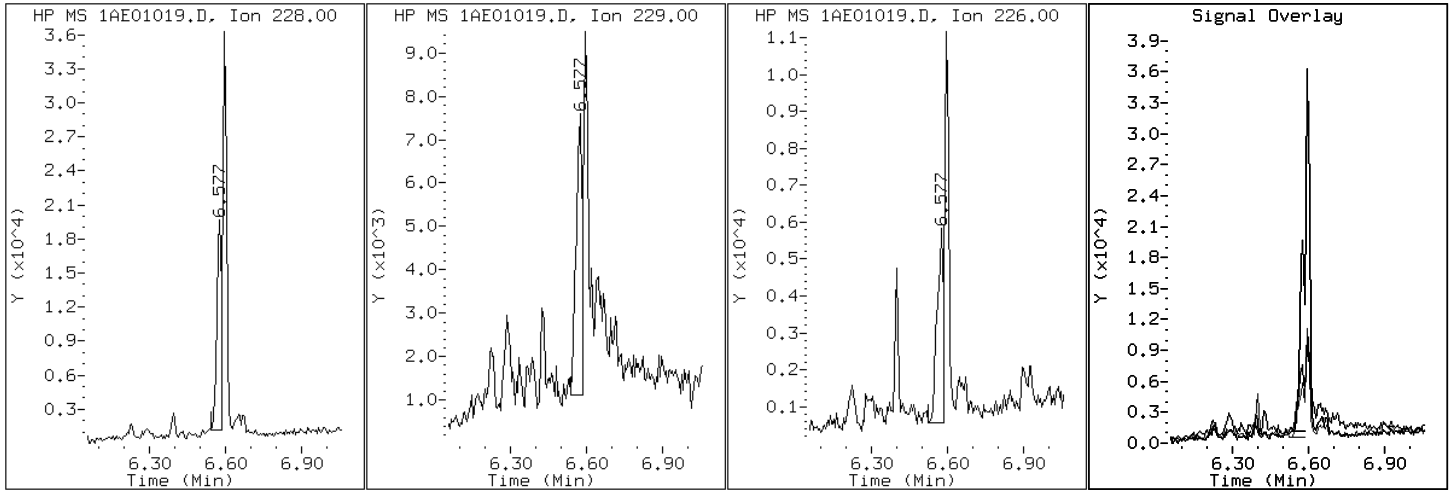
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

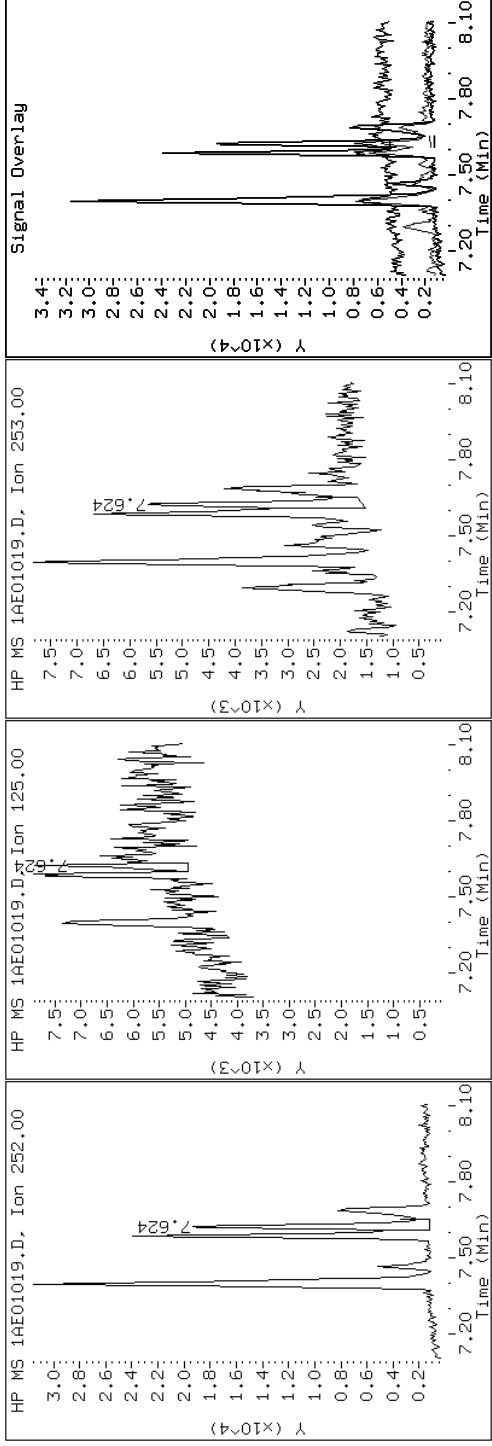
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

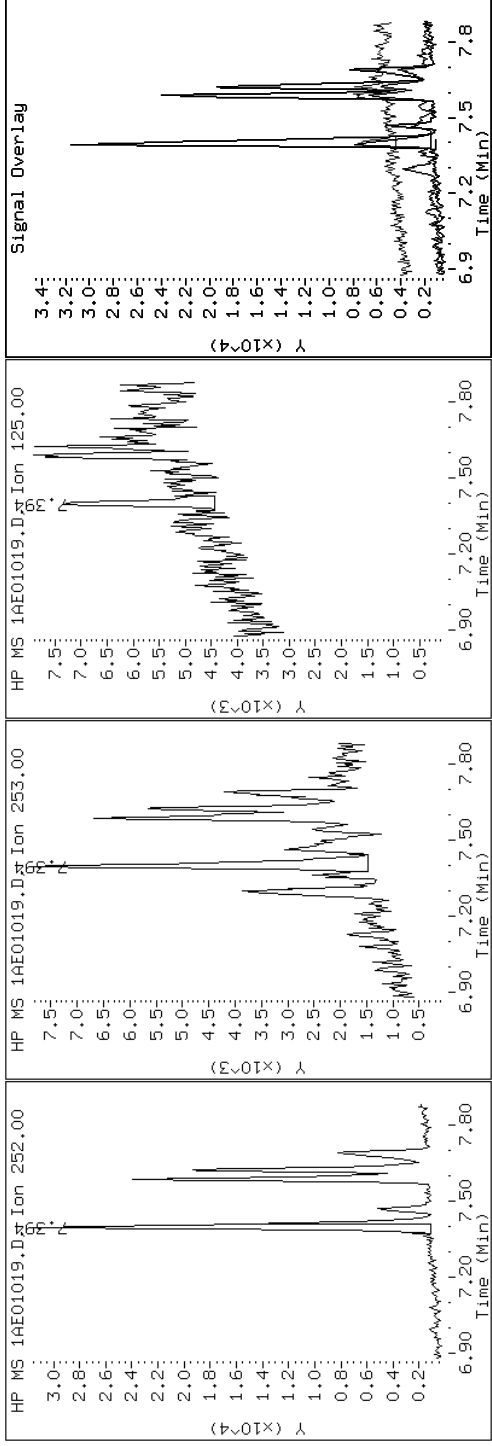
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

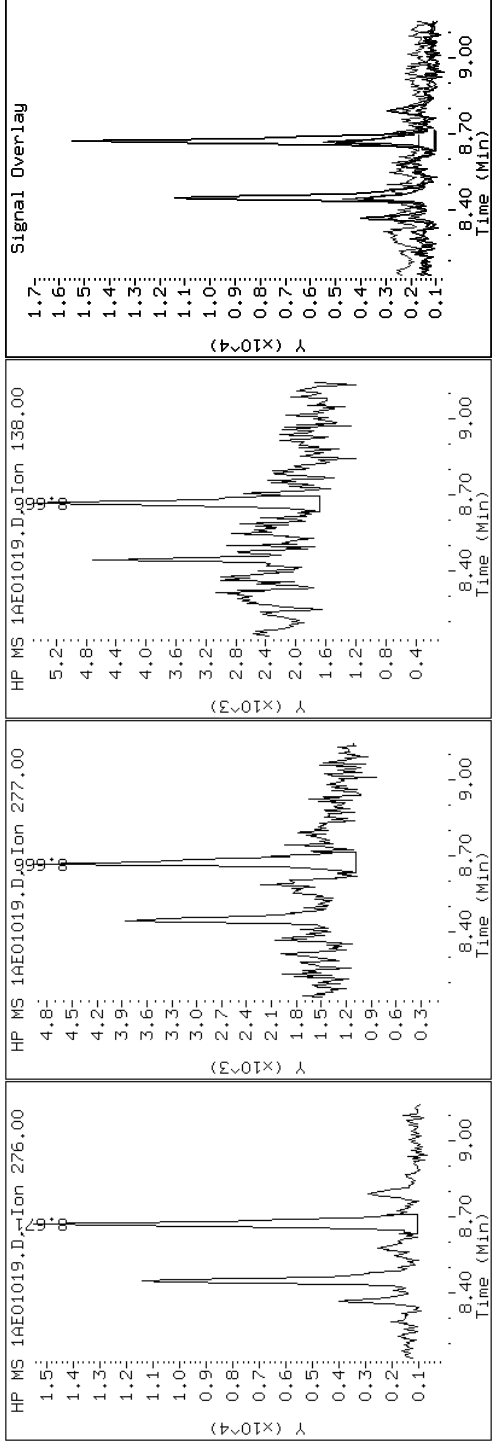
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

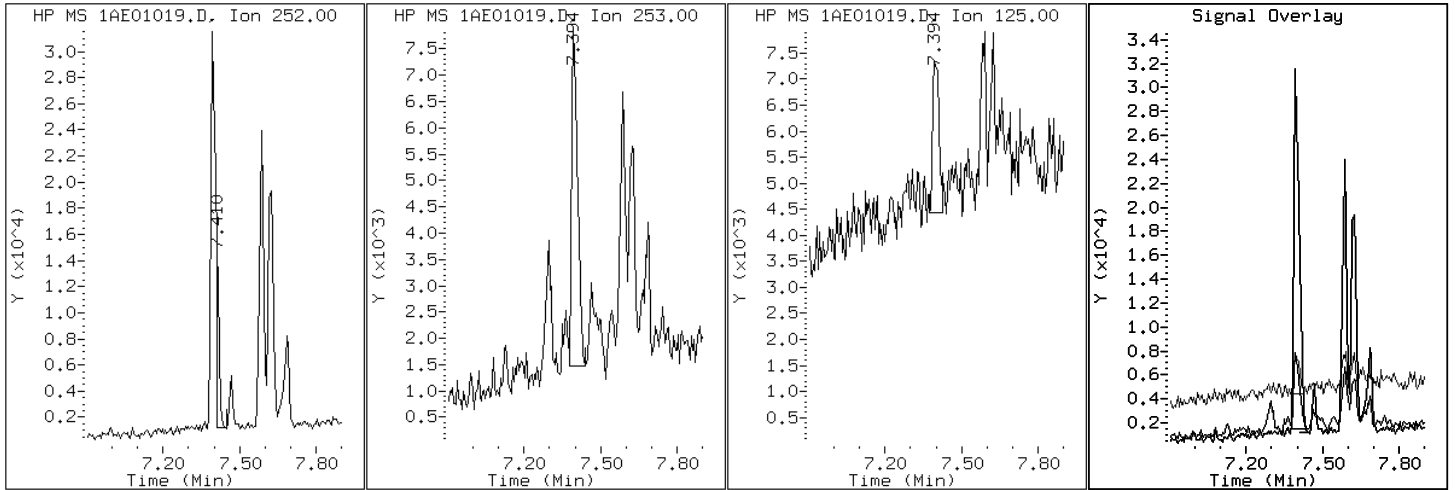
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

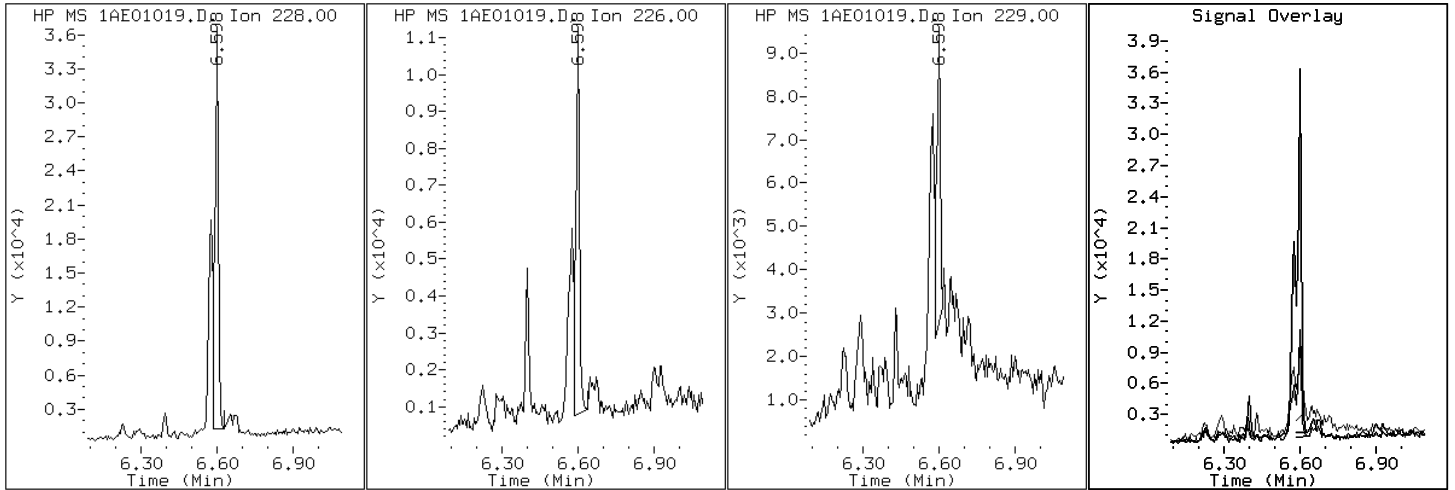
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

19 Chrysene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

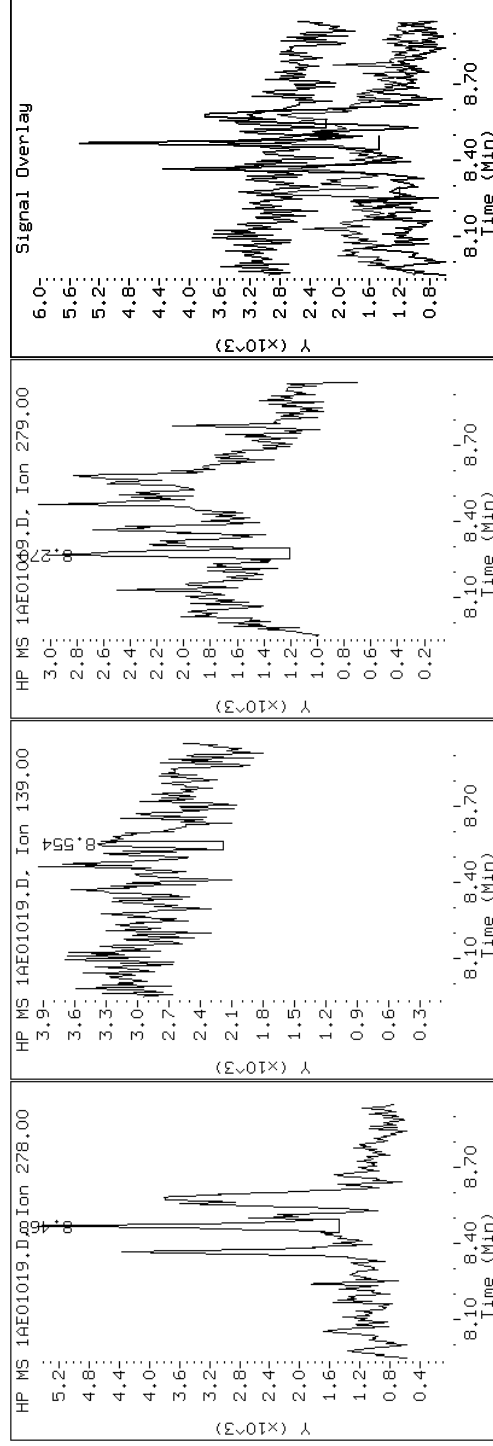
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

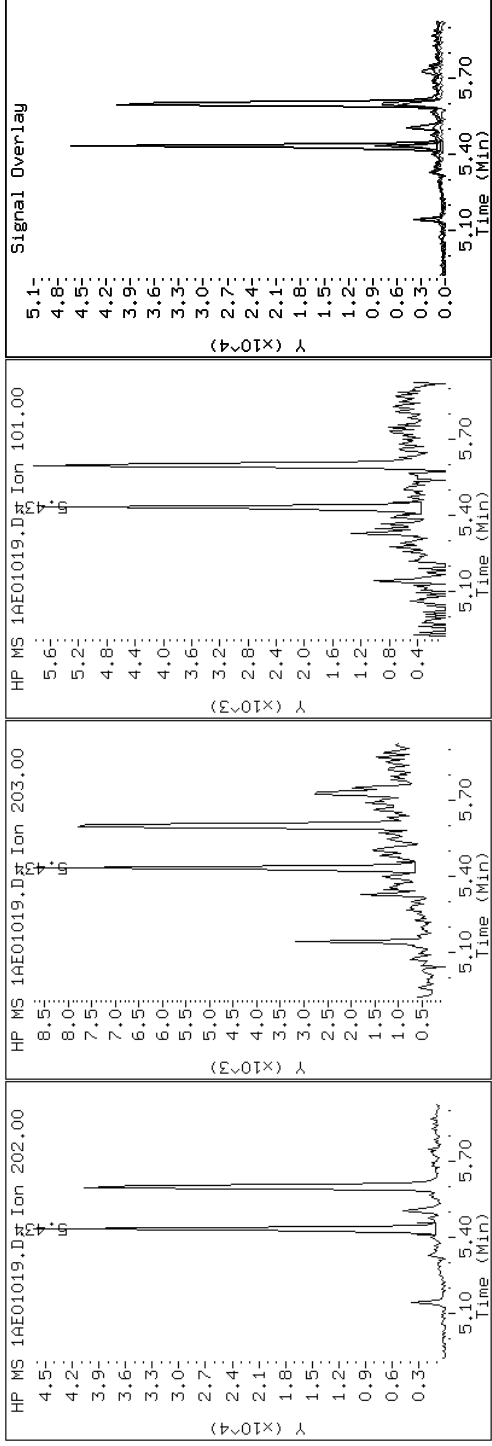
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

15 Fluoranthene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

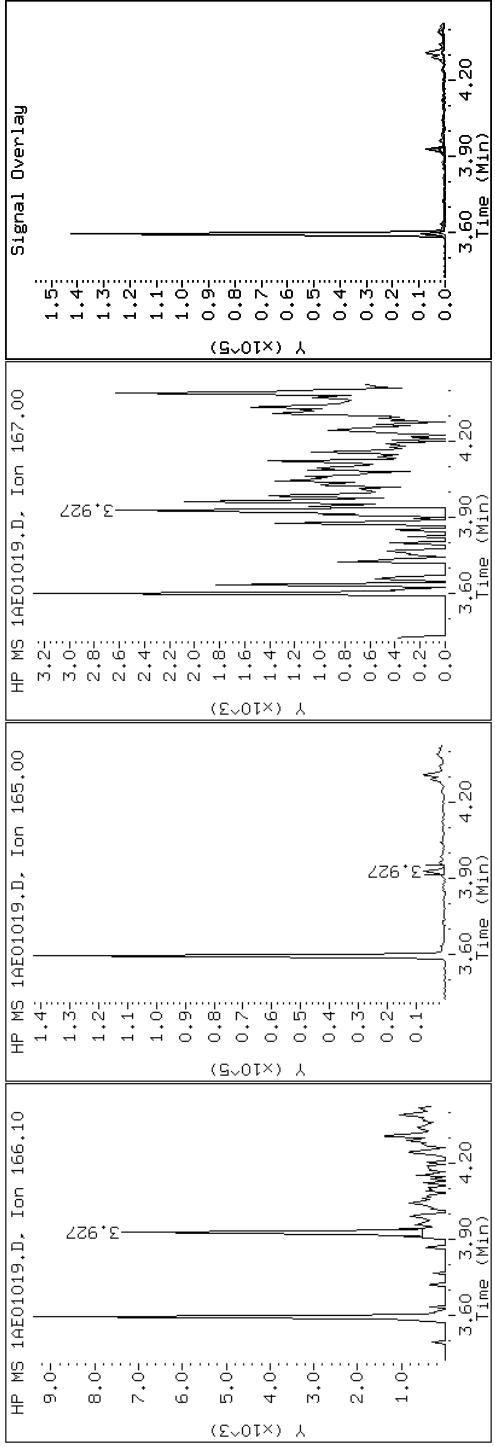
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

9 Fluorene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

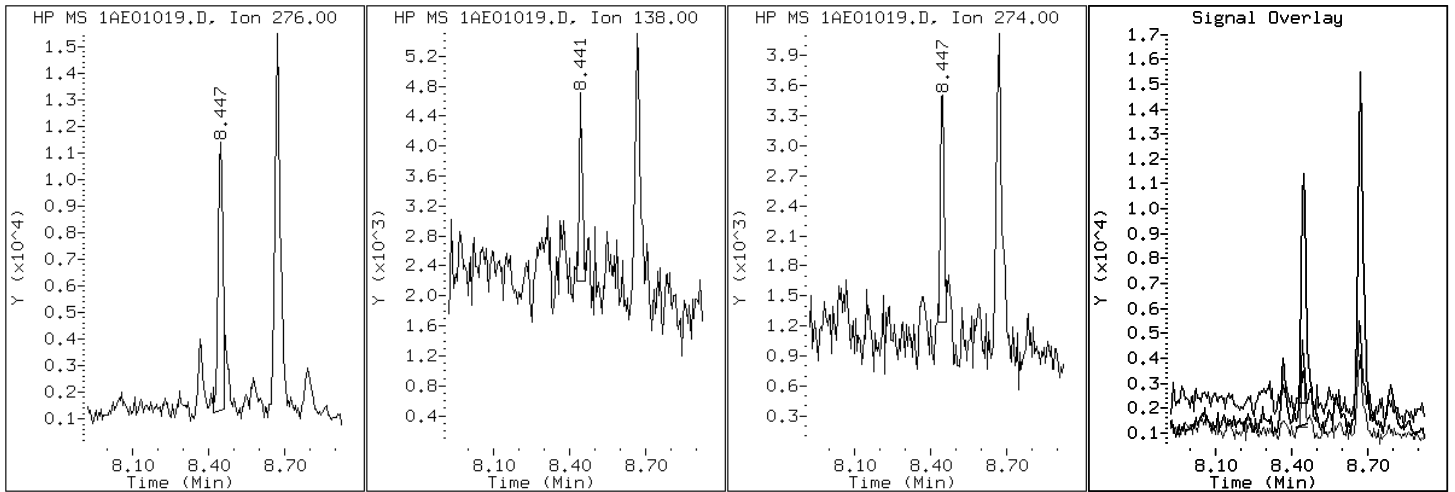
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

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



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

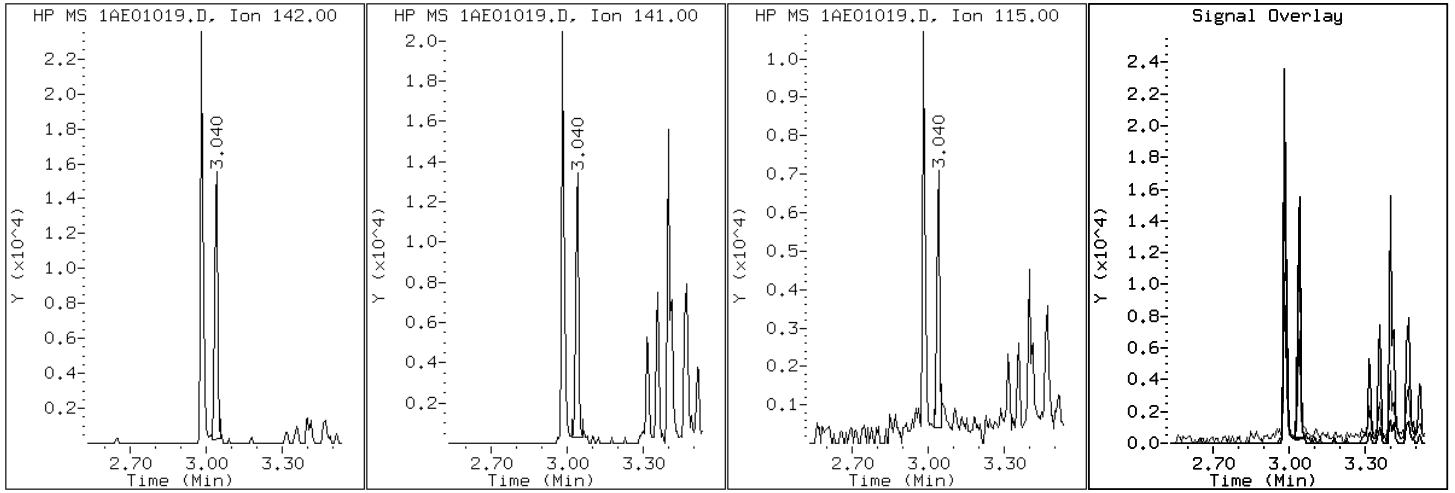
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

4 1-Methylnaphthalene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

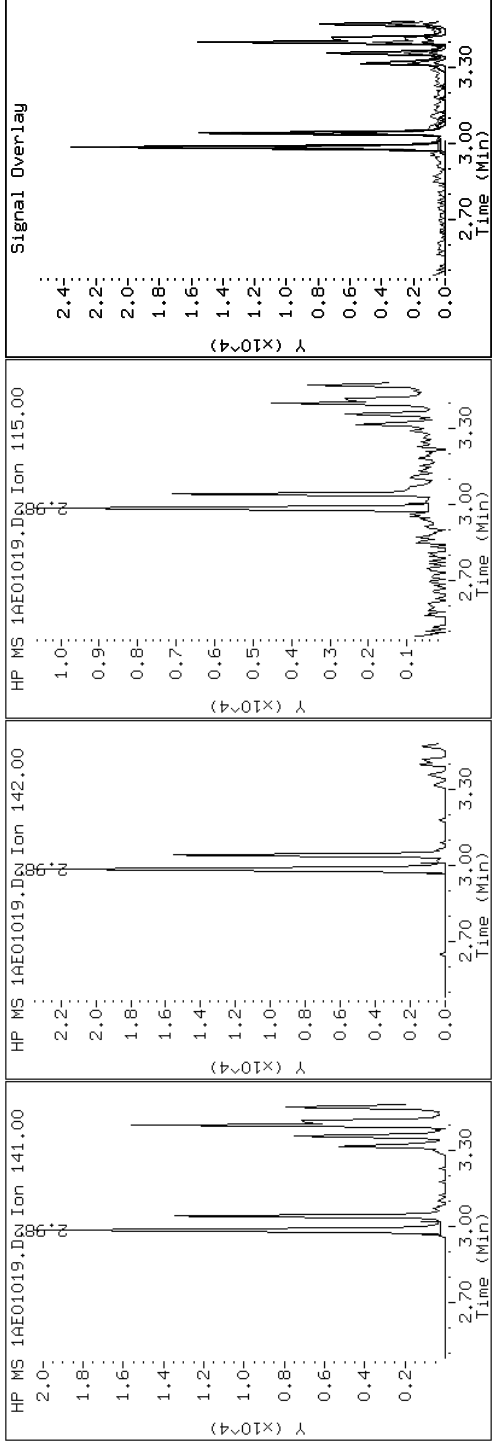
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

3 2-Methylnaphthalene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

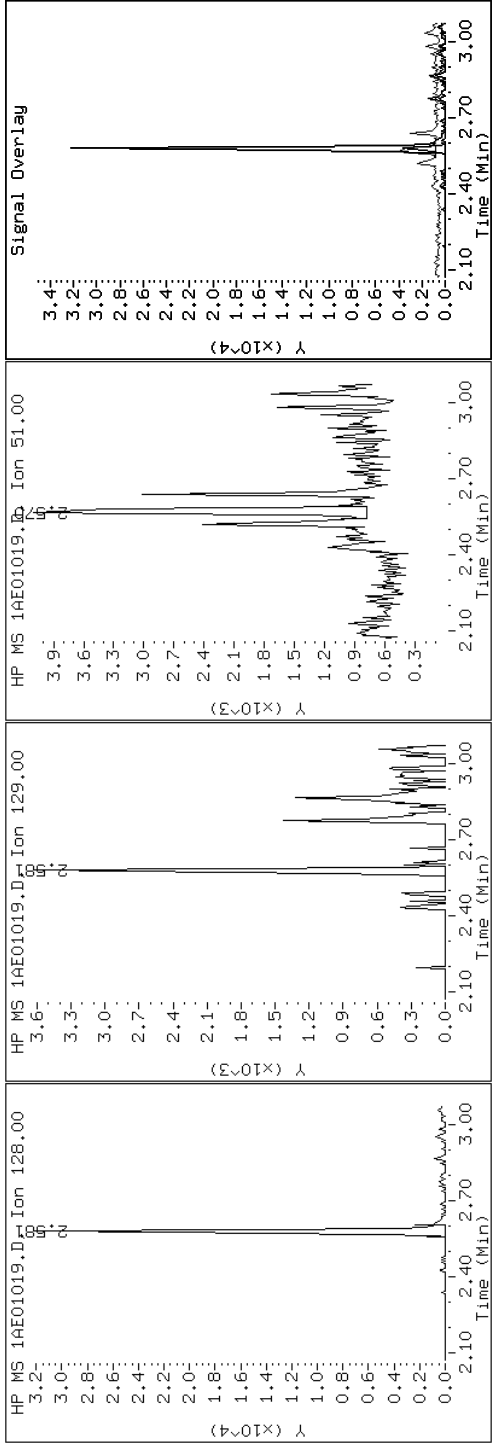
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

2 Naphthalene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

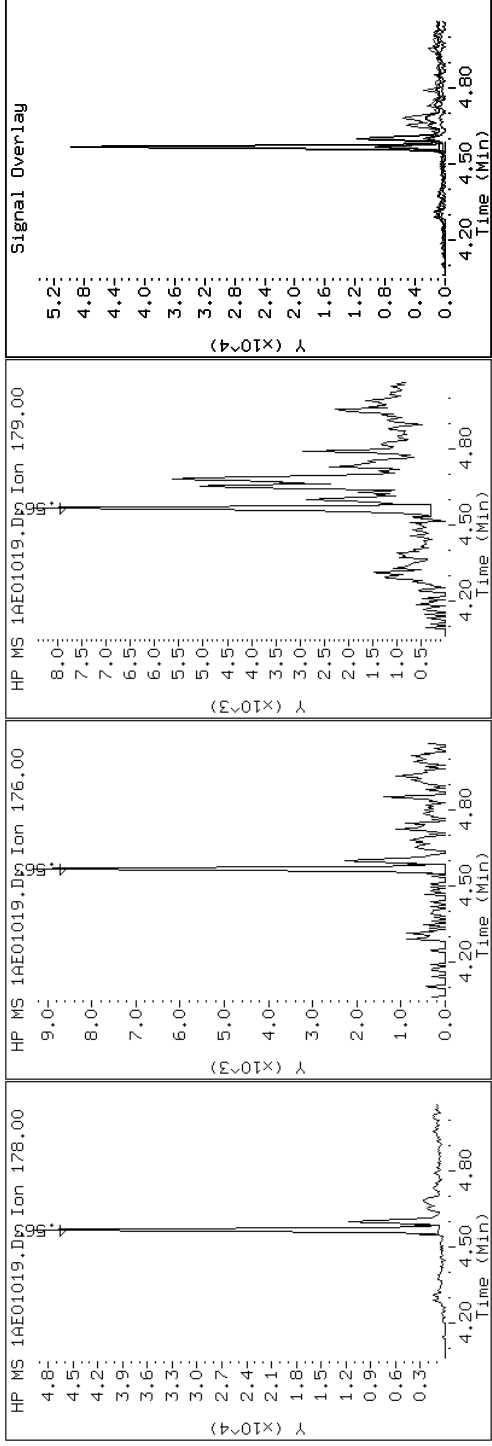
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

11 Phenanthrene



Data File: 1AE01019.D

Date: 01-MAY-2013 17:33

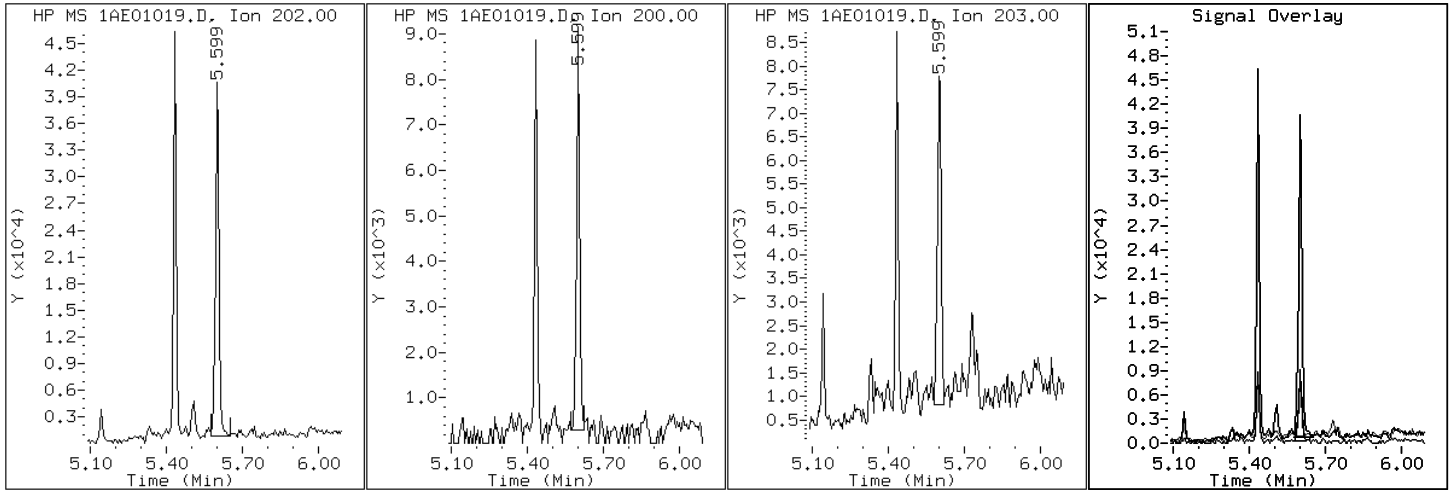
Client ID: CV0686C-GS-SP

Instrument: BSMA5973.i

Sample Info: 680-89695-a-31-a

Operator: SCC

16 Pyrene

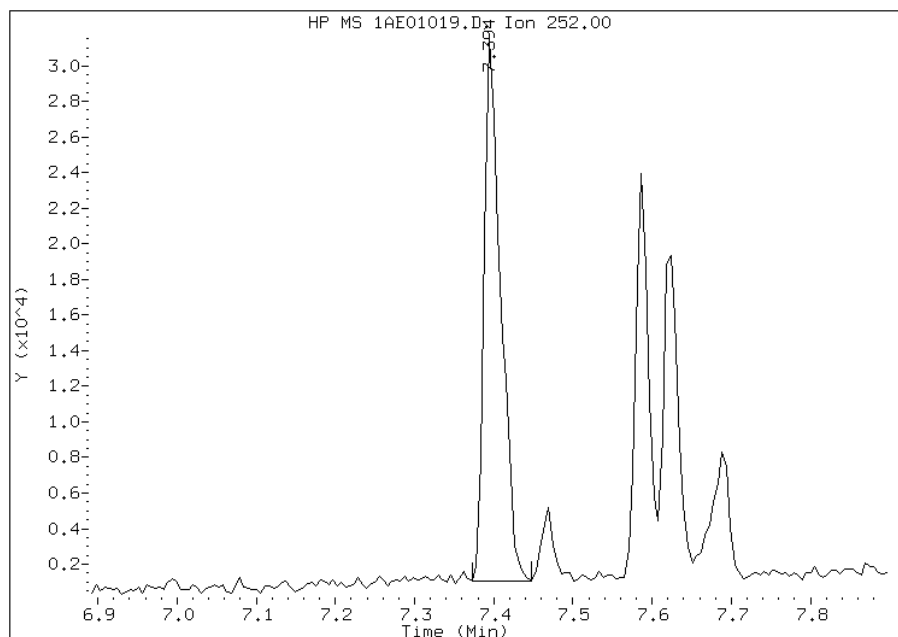


Manual Integration Report

Data File: 1AE01019.D
Inj. Date and Time: 01-MAY-2013 17:33
Instrument ID: BSMA5973.i
Client ID: CV0686C-GS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 05/05/2013

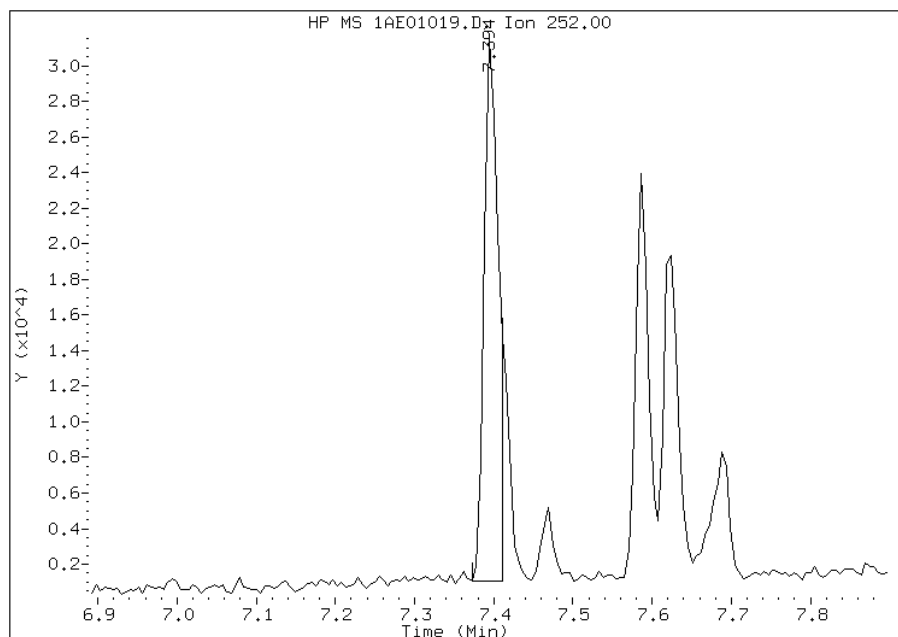
Processing Integration Results

RT: 7.39
Response: 43977
Amount: 1
Conc: 322



Manual Integration Results

RT: 7.39
Response: 37346
Amount: 1
Conc: 273



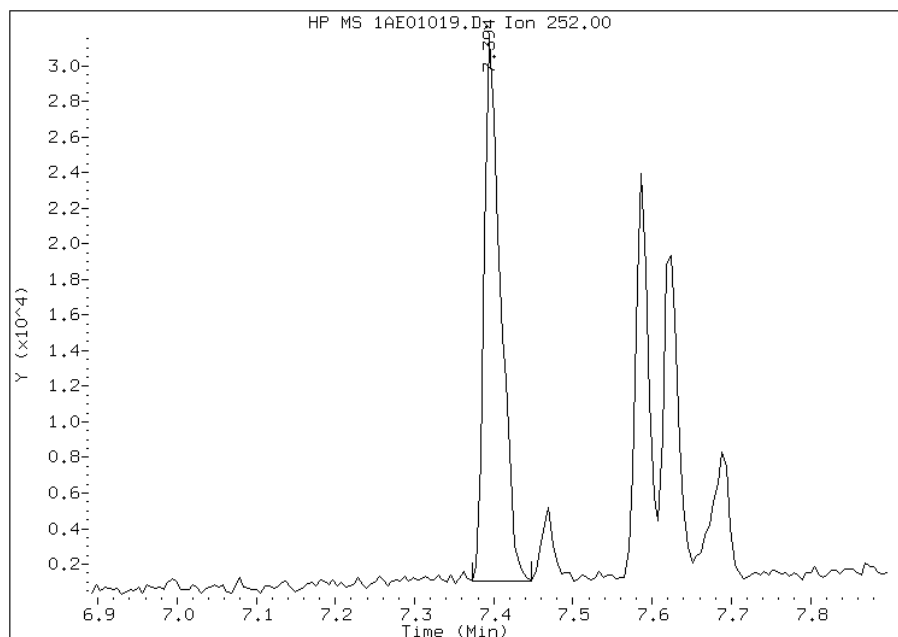
Manually Integrated By: cantins
Modification Date: 05-May-2013 17:05
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AE01019.D
Inj. Date and Time: 01-MAY-2013 17:33
Instrument ID: BSMA5973.i
Client ID: CV0686C-GS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 05/05/2013

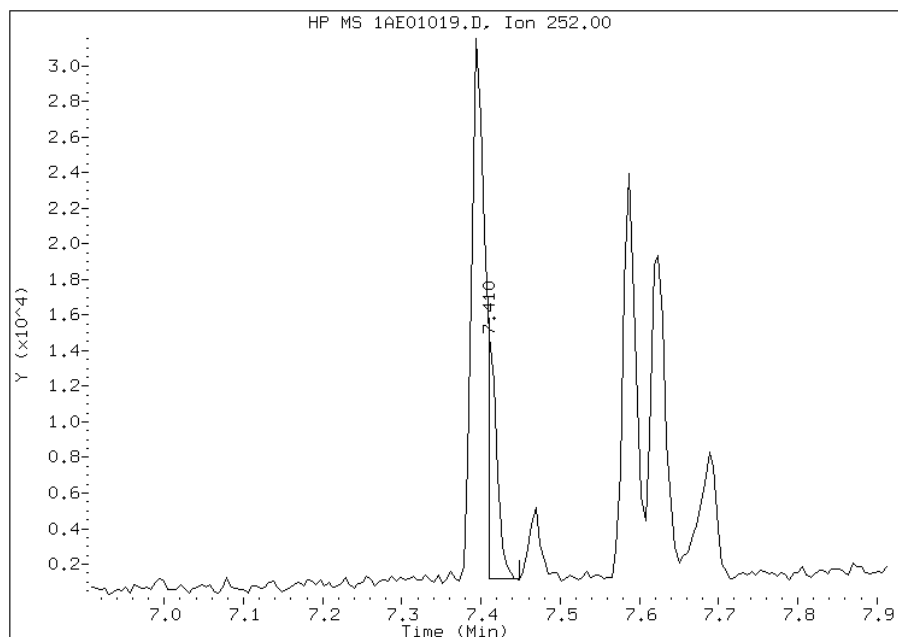
Processing Integration Results

RT: 7.39
Response: 43977
Amount: 1
Conc: 280



Manual Integration Results

RT: 7.41
Response: 10638
Amount: 0
Conc: 68



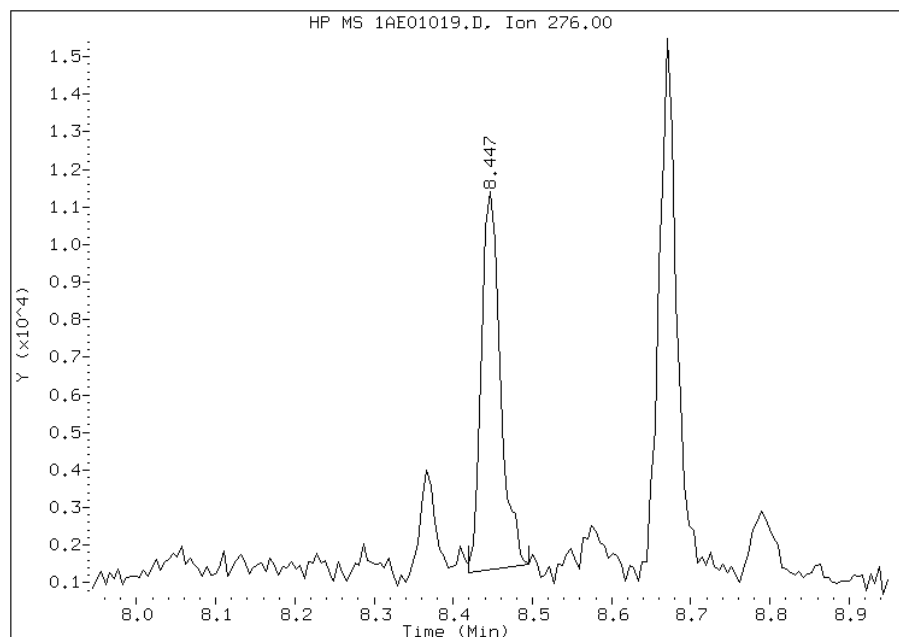
Manually Integrated By: cantins
Modification Date: 05-May-2013 17:05
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AE01019.D
Inj. Date and Time: 01-MAY-2013 17:33
Instrument ID: BSMA5973.i
Client ID: CV0686C-GS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/05/2013

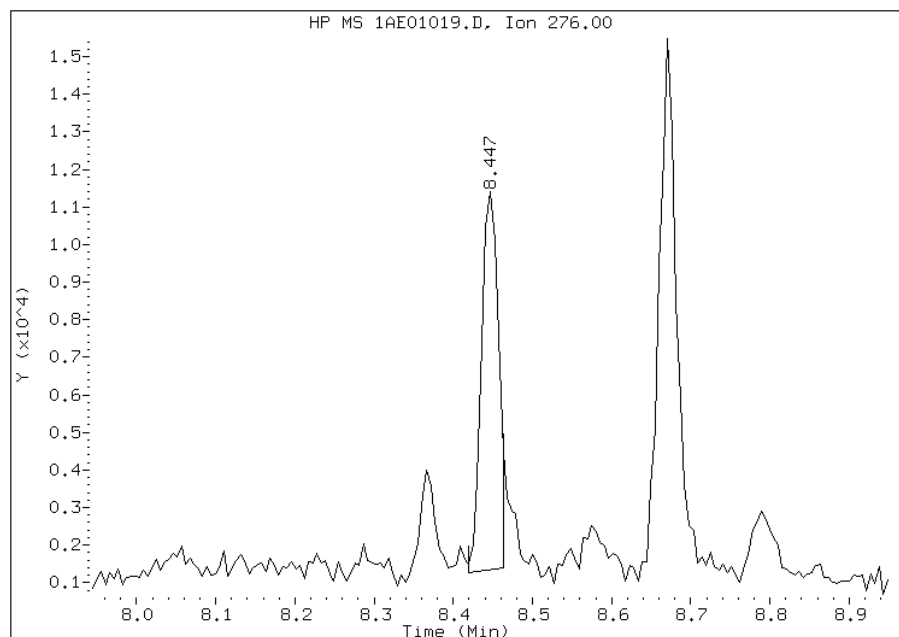
Processing Integration Results

RT: 8.45
Response: 16632
Amount: 0
Conc: 130



Manual Integration Results

RT: 8.45
Response: 14974
Amount: 0
Conc: 117



Manually Integrated By: cantins
Modification Date: 05-May-2013 17:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: 042313-RB-Sieve Lab Sample ID: 680-89695-35
 Matrix: Water Lab File ID: 1AE01036.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 10:00
 Extract. Method: 3520C Date Extracted: 04/30/2013 16:50
 Sample wt/vol: 910(mL) Date Analyzed: 05/01/2013 21:49
 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.: 137001 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.2	U F	2.2	0.55
208-96-8	Acenaphthylene	1.1	U	1.1	0.27
120-12-7	Anthracene	0.22	U	0.22	0.084
56-55-3	Benzo[a]anthracene	0.22	U F	0.22	0.055
50-32-8	Benzo[a]pyrene	0.22	U	0.22	0.063
205-99-2	Benzo[b]fluoranthene	0.22	U F	0.22	0.055
191-24-2	Benzo[g,h,i]perylene	0.55	U F	0.55	0.11
207-08-9	Benzo[k]fluoranthene	0.22	U F	0.22	0.063
218-01-9	Chrysene	0.22	U F	0.22	0.076
53-70-3	Dibenz(a,h)anthracene	0.22	U F	0.22	0.055
206-44-0	Fluoranthene	0.55	U F	0.55	0.059
86-73-7	Fluorene	2.2	U F	2.2	0.55
193-39-5	Indeno[1,2,3-cd]pyrene	0.22	U F	0.22	0.055
90-12-0	1-Methylnaphthalene	2.2	U	2.2	0.55
91-57-6	2-Methylnaphthalene	2.2	U F	2.2	0.55
91-20-3	Naphthalene	2.2	U F	2.2	0.27
85-01-8	Phenanthrene	0.55	U F	0.55	0.22
129-00-0	Pyrene	0.55	U F	0.55	0.098

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01036.D
 Lab Smp Id: 680-89695-A-35-A Client Smp ID: 042313-RB-Sieve
 Inj Date : 01-MAY-2013 21:49
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-35-A
 Misc Info : 680-89695-A-35-A
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 33
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	910.000	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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.576	2.563	(1.000)	1346417	40.0000	
* 6 Acenaphthene-d10	164	3.601	3.594	(1.000)	709346	40.0000	
* 10 Phenanthrene-d10	188	4.557	4.544	(1.000)	1195575	40.0000	
\$ 14 o-Terphenyl	230	4.857	4.844	(1.066)	101685	5.19986	5.7141
* 18 Chrysene-d12	240	6.598	6.574	(1.000)	1394713	40.0000	
* 23 Perylene-d12	264	7.699	7.659	(1.000)	1513430	40.0000	

Data File: 1AE01036.D

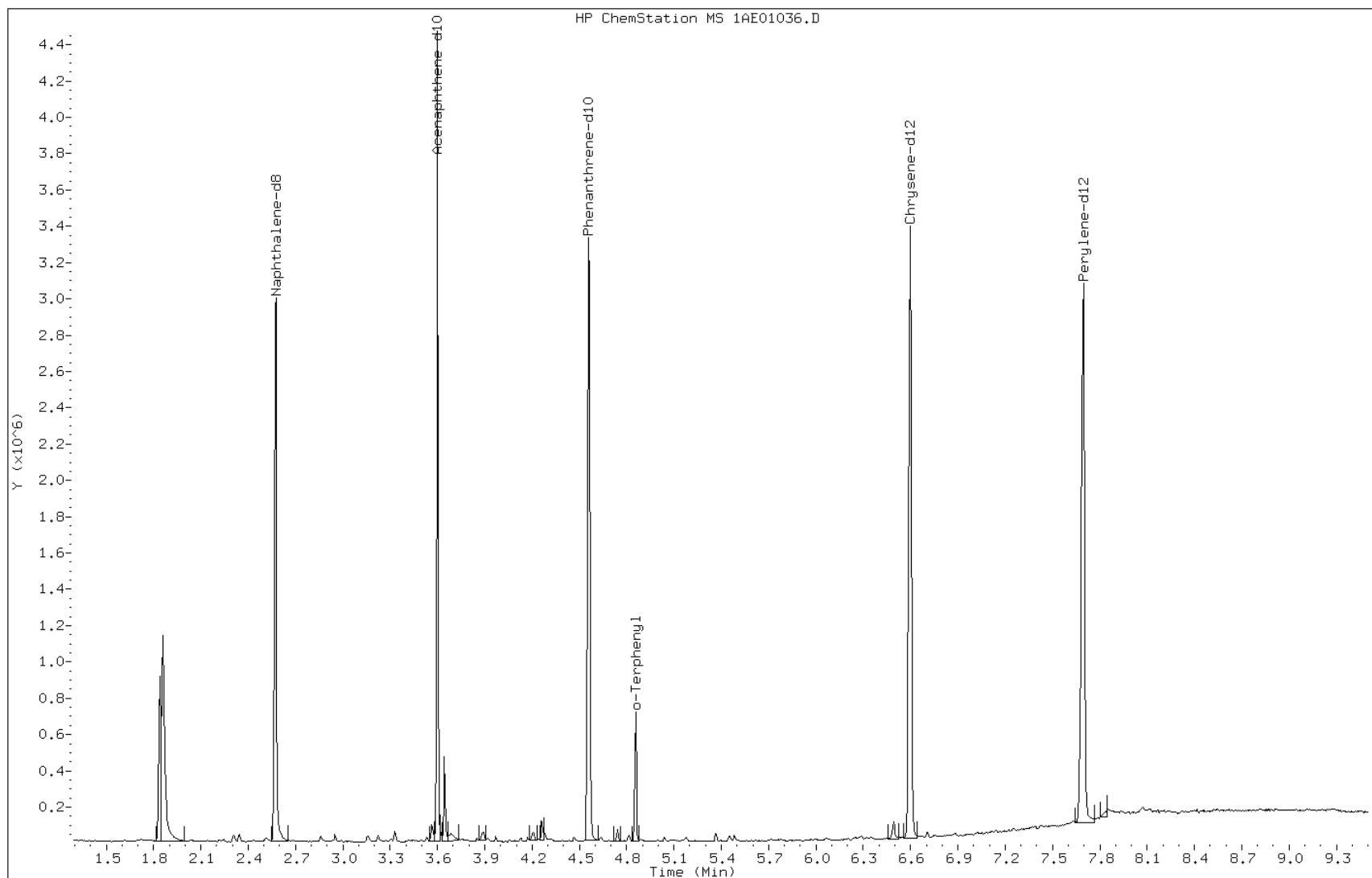
Date: 01-MAY-2013 21:49

Client ID: 042313-RB-Sieve

Instrument: BSMA5973.i

Sample Info: 680-89695-a-35-A

Operator: SCC



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

Lab Name: TestAmerica Tampa Job No.: 680-89695-2 Analy Batch No.: 136892

SDG No.: 68089695-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136892/3	1AD26003.D
Level 2	IC 660-136892/4	1AD26004.D
Level 3	IC 660-136892/5	1AD26005.D
Level 4	IC 660-136892/6	1AD26006.D
Level 5	ICIS 660-136892/7	1AD26007.D
Level 6	IC 660-136892/8	1AD26008.D
Level 7	IC 660-136892/9	1AD26009.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	0.9807 0.9678	1.0732 0.8900	1.0807	1.0246	0.9825	Ave	0.9999			0.0000	6.6		15.0				
2-Methylnaphthalene	0.5475 0.5304	0.6500 0.4770	0.6525	0.5874	0.5679	Ave	0.5733			0.0000	11.1		15.0				
1-Methylnaphthalene	0.6553 0.5728	0.7316 0.5089	0.7301	0.6482	0.5991	Ave	0.6351			0.0000	12.9		15.0				
Acenaphthylene	2.3664 2.1362	2.6542 1.8462	2.6916	2.4314	2.2380	Ave	2.3377			0.0000	12.7		15.0				
Acenaphthene	1.4118 1.1125	1.4011 0.9341	1.3816	1.2190	1.1215	Ave	1.2260			0.0000	14.8		15.0				
Fluorene	1.5097 1.3767	1.6462 1.1794	1.6636	1.5206	1.4287	Ave	1.4750			0.0000	11.3		15.0				
Phenanthrene	1.3907 1.0142	1.2926 0.9287	1.2725	1.1400	1.0724	Ave	1.1587			0.0000	14.4		15.0				
Anthracene	1.3104 1.0706	1.3619 0.9491	1.3564	1.2393	1.1461	Ave	1.2048			0.0000	13.0		15.0				
Carbazole	1.1993 1.0651	1.2721 1.0036	1.3075	1.1642	1.1242	Ave	1.1623			0.0000	9.3		15.0				
Fluoranthene	1.3009 1.2420	1.4074 1.1640	1.5310	1.3979	1.3252	Ave	1.3383			0.0000	9.0		15.0				
Pyrene	1.4167 1.4769	1.6244 1.4080	1.6725	1.5706	1.5132	Ave	1.5260			0.0000	6.6		15.0				
Benzo[a]anthracene	1.5532 1.2283	1.2438 1.3069	1.3074	1.2316	1.2729	Ave	1.3063			0.0000	8.7		15.0				
Chrysene	1.5597 1.2058	1.4759 1.1272	1.3919	1.3009	1.2153	Ave	1.3253			0.0000	11.9		15.0				
Benzo[b]fluoranthene	1.0058 1.1221	1.2872 1.1499	1.3036	1.2968	1.3352	Ave	1.2144			0.0000	10.1		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.: 680-89695-2 Analy Batch No.: 136892

SDG No.: 68089695-2

Instrument ID: BSMA5973 GC Column: DB-5MS ID: 250 (um) Heated Purge: (Y/N) N

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibration ID: 2919

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	1.5807 1.2951	1.4811 1.1583	1.6305	1.3756	1.2523	Ave		1.3962			0.0000	12.5		15.0			
Benzo[a]pyrene	1.0264 1.1766	1.1712 1.1154	1.3812	1.3107	1.2749	Ave		1.2081			0.0000	10.1		15.0			
Indeno[1,2,3-cd]pyrene	0.9109 1.1772	1.0019 1.2427	1.2020	1.2085	1.2416	Ave		1.1407			0.0000	11.4		15.0			
Dibenz(a,h)anthracene	0.8117 1.0574	1.0829 1.0146	1.2099	1.1482	1.1048	Ave		1.0613			0.0000	11.9		15.0			
Benzo[g,h,i]perylene	1.1500 1.2201	1.3387 1.2159	1.4017	1.3373	1.2727	Ave		1.2766			0.0000	6.9		15.0			
o-Terphenyl	0.7073 0.5831	0.7372 0.5170	0.7524	0.6639	0.6189	Ave		0.6543			0.0000	13.2		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-89695-2 Analy B

SDG No.: 68089695-2

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

Calibration Start Date: 04/26/2013 10:03 Calibration End Date: 04/26/2013 11:34 Calibra

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-136892/3	1AD26003.D
Level 2	IC 660-136892/4	1AD26004.D
Level 3	IC 660-136892/5	1AD26005.D
Level 4	IC 660-136892/6	1AD26006.D
Level 5	ICIS 660-136892/7	1AD26007.D
Level 6	IC 660-136892/8	1AD26008.D
Level 7	IC 660-136892/9	1AD26009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CO	
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7
Naphthalene	NPT	Ave	11316 1510520	61217 2445644	320082	595222	1158716	0.200 30.0	1 50
2-Methylnaphthalene	NPT	Ave	6318 827941	37078 1310841	193264	341254	669822	0.200 30.0	1 50
1-Methylnaphthalene	NPT	Ave	7562 894050	41731 1398370	216239	376560	706538	0.200 30.0	1 50
Acenaphthylene	ANT	Ave	12402 1556064	68056 2504346	366926	648059	1265667	0.200 30.0	1 50
Acenaphthene	ANT	Ave	7399 810394	35926 1267057	188346	324917	634267	0.200 30.0	1 50
Fluorene	ANT	Ave	7912 1002855	42211 1599840	226787	405299	807968	0.200 30.0	1 50
Phenanthrene	PHN	Ave	12552 1299367	56771 2139281	300982	533287	1040972	0.200 30.0	1 50
Anthracene	PHN	Ave	11827 1371502	59817 2186210	320832	579771	1112517	0.200 30.0	1 50
Carbazole	PHN	Ave	10825 1364561	55869 2311786	309273	544612	1091227	0.200 30.0	1 50
Fluoranthene	PHN	Ave	11742 1591115	61813 2681447	362121	653973	1286350	0.200 30.0	1 50
Pyrene	CRY	Ave	12588 1716784	69806 2760027	387490	693219	1367080	0.200 30.0	1 50
Benzo[a]anthracene	CRY	Ave	13801 1427778	53450 2561817	302918	543586	1149947	0.200 30.0	1 50
Chrysene	CRY	Ave	13859 1401601	63425 2209729	322491	574179	1097962	0.200 30.0	1 50
Benzo[b]fluoranthene	PRY	Ave	9306 1402018	56273 2501570	315397	597877	1243307	0.200 30.0	1 50
Benzo[k]fluoranthene	PRY	Ave	14625 1618107	64750 2519945	394484	634191	1166129	0.200 30.0	1 50
Benzo[a]pyrene	PRY	Ave	9497 1470103	51202 2426657	334183	604286	1187145	0.200 30.0	1 50
Indeno[1,2,3-cd]pyrene	PRY	Ave	8428 1470861	43801 2703546	290809	557142	1156108	0.200 30.0	1 50
Dibenz(a,h)anthracene	PRY	Ave	7510 1321140	47341 2207196	292736	529334	1028761	0.200 30.0	1 50
Benzo[g,h,i]perylene	PRY	Ave	10640 1524482	58526 2645132	339141	616524	1185137	0.200 30.0	1 50
o-Terphenyl	PHN	Ave	6384 747046	32378 1190919	177967	310562	600782	0.200 30.0	1 50

Curve Type Legend:

Ave = Average ISTD

136892

N

2919

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26003.D
 Lab Smp Id: IC-1531396
 Inj Date : 26-APR-2013 10:03
 Operator : SCC
 Smp Info : IC-1531396
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
 Cal Date : 26-APR-2013 11:03 Cal File: 1AD26007.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					ON-COL
			CAL-AMT	ON-COL	REL RT	RESPONSE	ON-COL	
MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)	(ug/ml)		
* 1 Naphthalene-d8	136	2.578	2.580	(1.000)	2307813	40.0000		
* 6 Acenaphthene-d10	164	3.609	3.606	(1.000)	1048180	40.0000		
* 10 Phenanthrene-d10	188	4.560	4.562	(1.000)	1805166	40.0000		
\$ 14 o-Terphenyl	230	4.859	4.861	(1.066)	6384	0.20000	0.1909	
* 18 Chrysene-d12	240	6.579	6.581	(1.000)	1777148	40.0000		
* 23 Perylene-d12	264	7.664	7.666	(1.000)	1850467	40.0000		
2 Naphthalene	128	2.589	2.591	(1.004)	11316	0.20000	0.2368	
3 2-Methylnaphthalene	141	2.995	2.997	(1.162)	6318	0.20000	0.2274	
4 1-Methylnaphthalene	142	3.048	3.050	(1.182)	7562	0.20000	0.1607	
5 Acenaphthylene	152	3.518	3.520	(0.975)	12402	0.20000	0.3039	
7 Acenaphthene	154	3.625	3.627	(1.004)	7399	0.20000	0.4114	
9 Fluorene	166	3.935	3.942	(1.090)	7912	0.20000	0.4114	
11 Phenanthrene	178	4.571	4.578	(1.002)	12552	0.20000	0.1032	
12 Anthracene	178	4.603	4.610	(1.009)	11827	0.20000	0.2150	
13 Carbazole	167	4.731	4.738	(1.037)	10825	0.20000	0.0501	
15 Fluoranthene	202	5.436	5.438	(1.192)	11742	0.20000	0.0685	
16 Pyrene	202	5.602	5.604	(0.851)	12588	0.20000	0.1856	
17 Benzo(a)anthracene	228	6.569	6.565	(0.998)	13801	0.20000	0.2377	
19 Chrysene	228	6.590	6.597	(1.002)	13859	0.20000	0.2353	
20 Benzo(b)fluoranthene	252	7.381	7.388	(0.963)	9306	0.20000	0.1656	
21 Benzo(k)fluoranthene	252	7.397	7.409	(0.965)	14625	0.20000	0.2264(M)	
22 Benzo(a)pyrene	252	7.605	7.612	(0.992)	9497	0.20000	-0.7697(a)	
24 Indeno(1,2,3-cd)pyrene	276	8.417	8.430	(1.098)	8428	0.20000	0.3771(M)	
25 Dibenzo(a,h)anthracene	278	8.444	8.457	(1.102)	7510	0.20000	0.1529	
26 Benzo(g,h,i)perylene	276	8.631	8.654	(1.126)	10640	0.20000	0.1801(M)	

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Data File: 1AD26003.D

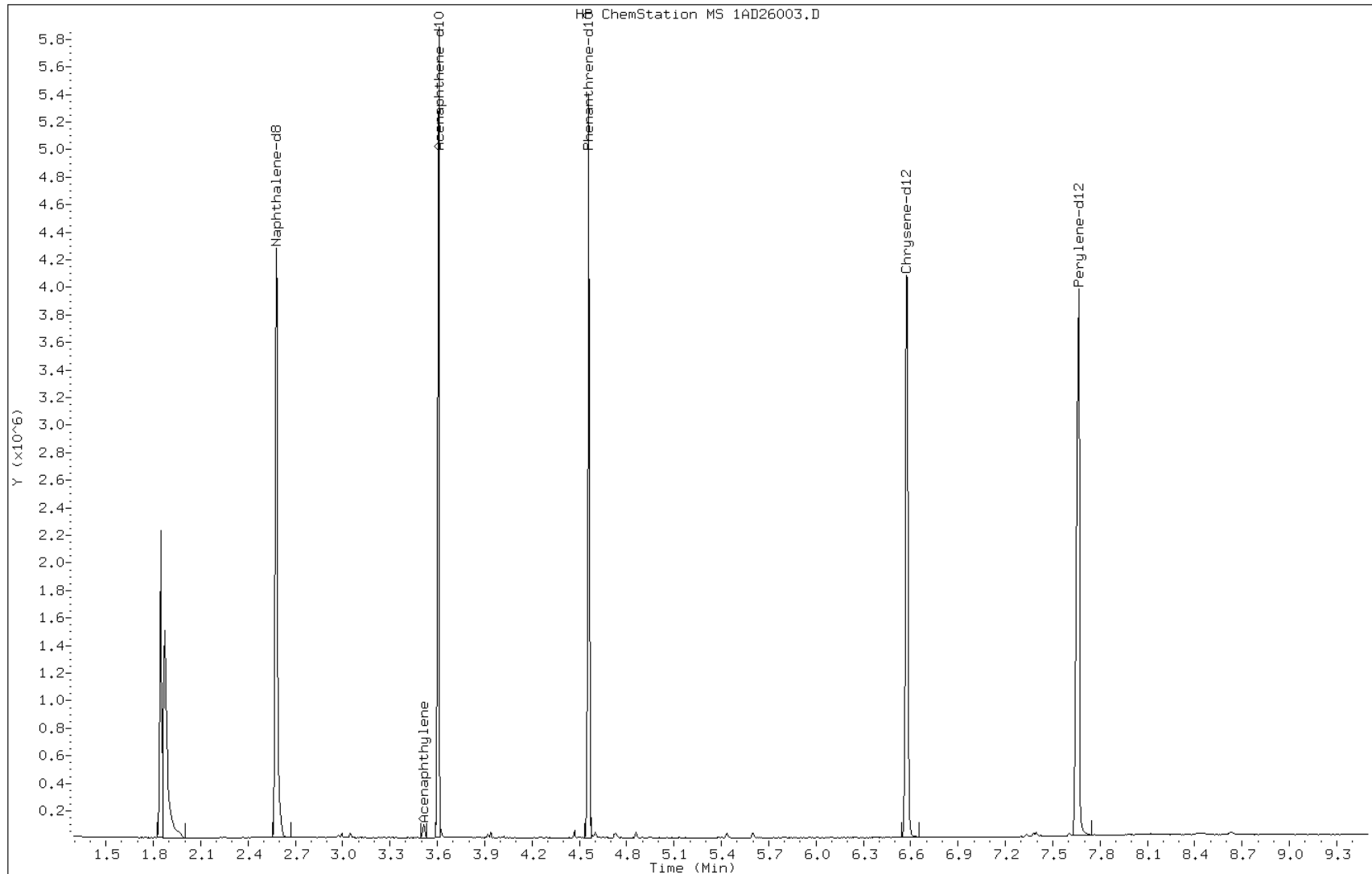
Date: 26-APR-2013 10:03

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531396

Operator: SCC

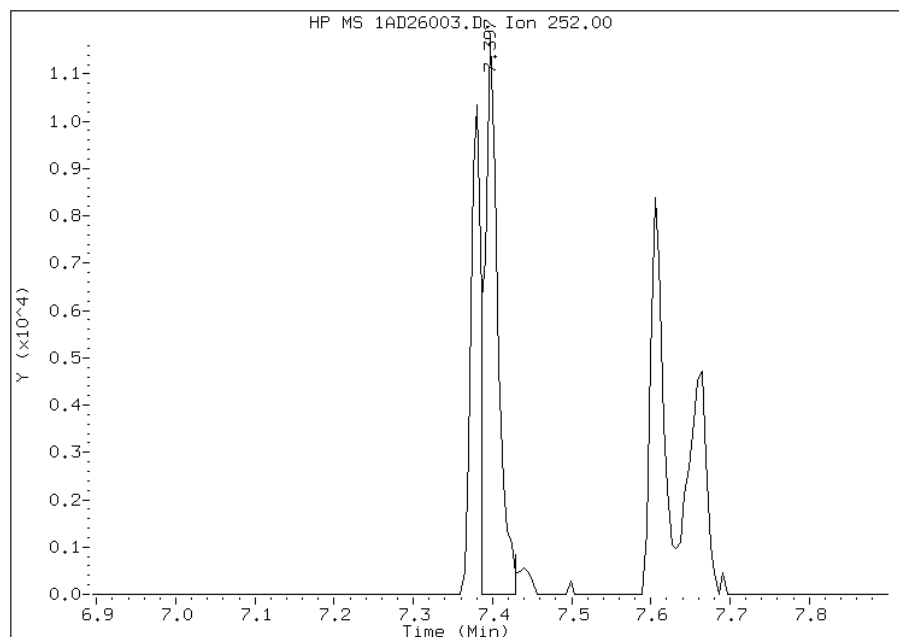


Manual Integration Report

Data File: 1AD26003.D
Inj. Date and Time: 26-APR-2013 10:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/26/2013

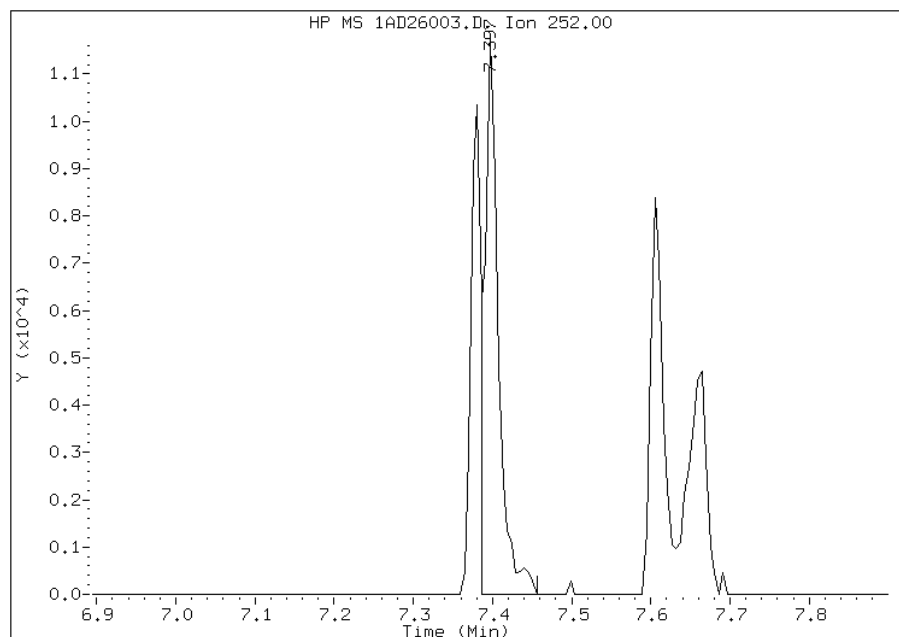
Processing Integration Results

RT: 7.40
Response: 14089
Amount: 0
Conc: 0



Manual Integration Results

RT: 7.40
Response: 14625
Amount: 0
Conc: 0



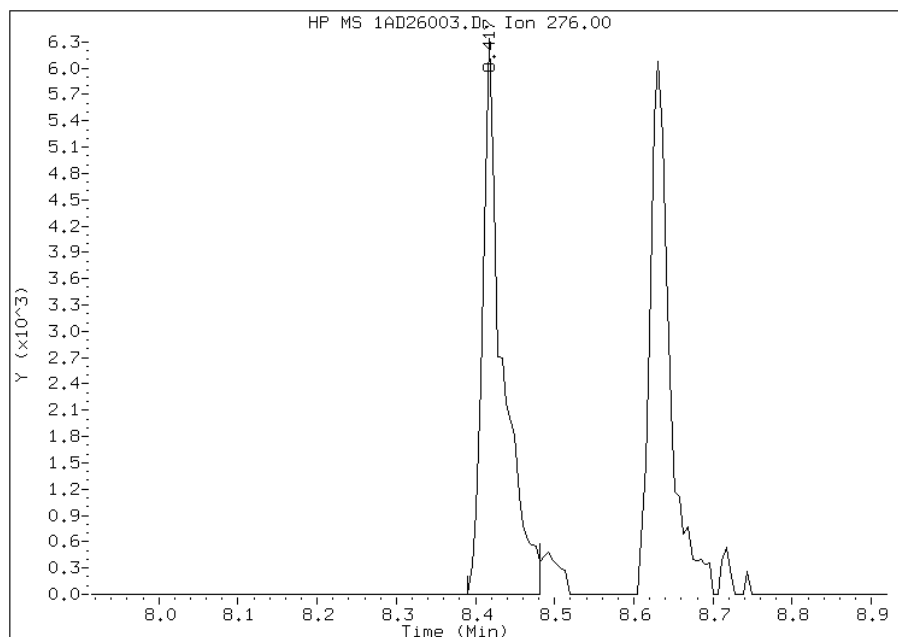
Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:57
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26003.D
Inj. Date and Time: 26-APR-2013 10:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

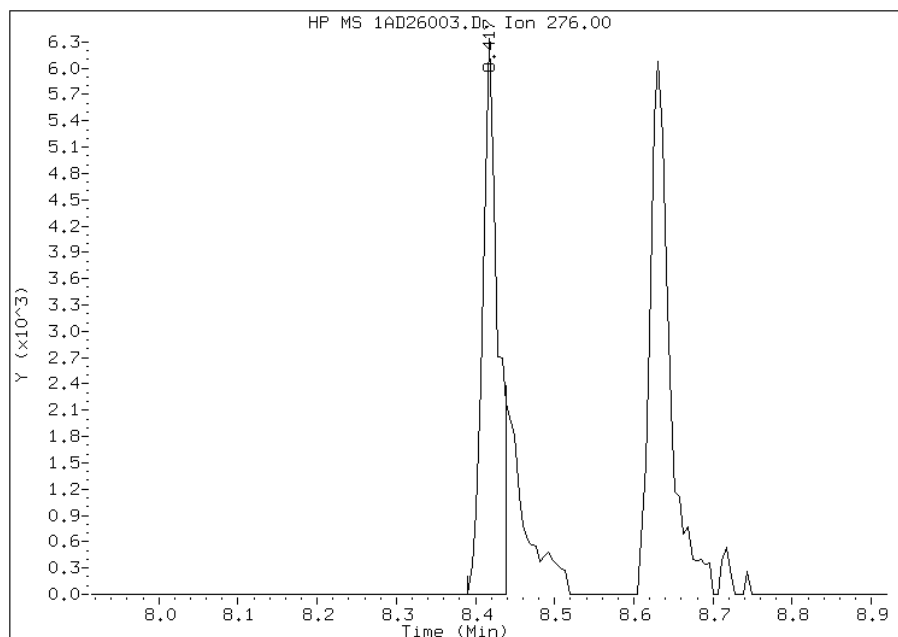
Processing Integration Results

RT: 8.42
Response: 10930
Amount: 0
Conc: 0



Manual Integration Results

RT: 8.42
Response: 8428
Amount: 0
Conc: 0



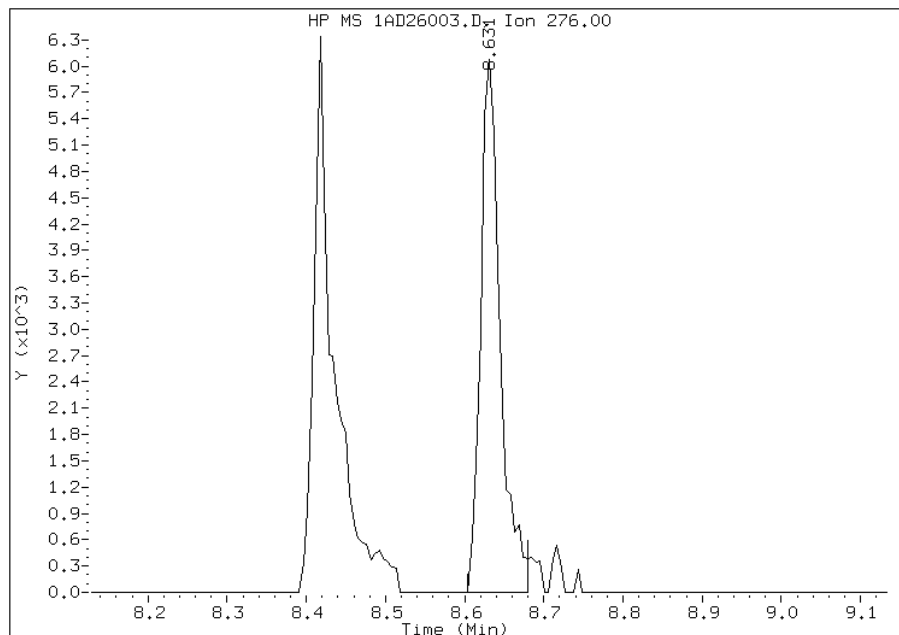
Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:51
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD26003.D
Inj. Date and Time: 26-APR-2013 10:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

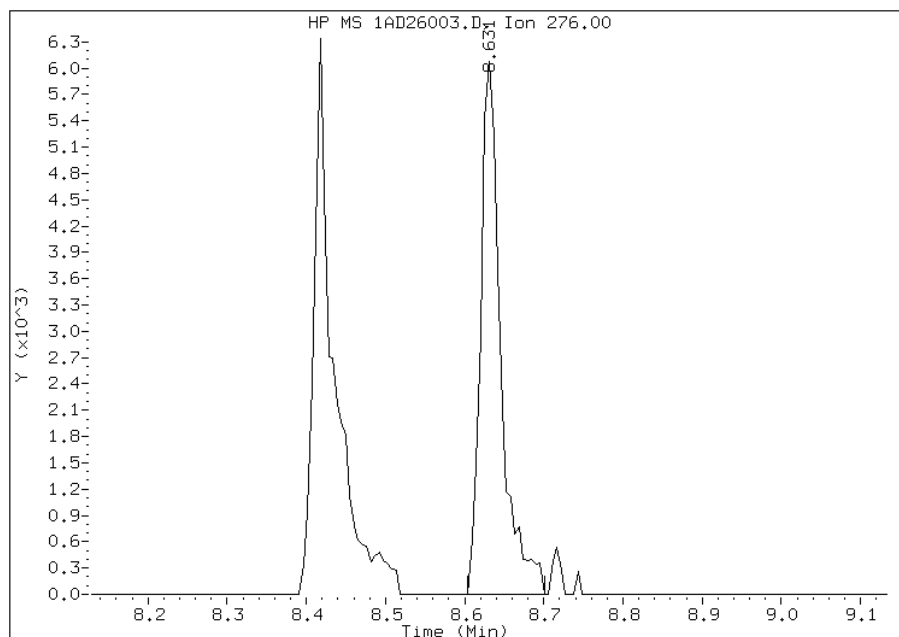
Processing Integration Results

RT: 8.63
Response: 10297
Amount: 0
Conc: 0



Manual Integration Results

RT: 8.63
Response: 10640
Amount: 0
Conc: 0



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:51
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsrv\chem\SM\BSMA5973.i\1A042613.b\1AD26004.D
 Lab Smp Id: IC-1531398
 Inj Date : 26-APR-2013 10:18
 Operator : SCC
 Smp Info : IC-1531398
 Misc Info :
 Comment :
 Method : \\tam-chemsrv\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
 Cal Date : 26-APR-2013 10:03 Cal File: 1AD26003.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	2.581	2.580	(1.000)	2281622	40.0000	
* 6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1025638	40.0000	
* 10 Phenanthrene-d10	188	4.558	4.562	(1.000)	1756807	40.0000	
\$ 14 o-Terphenyl	230	4.857	4.861	(1.066)	32378	1.00000	0.9805
* 18 Chrysene-d12	240	6.577	6.581	(1.000)	1718926	40.0000	
* 23 Perylene-d12	264	7.656	7.666	(1.000)	1748681	40.0000	
2 Naphthalene	128	2.592	2.591	(1.004)	61217	1.00000	1.0359
3 2-Methylnaphthalene	141	2.993	2.997	(1.159)	37078	1.00000	1.0345
4 1-Methylnaphthalene	142	3.051	3.050	(1.182)	41731	1.00000	0.9917
5 Acenaphthylene	152	3.516	3.520	(0.975)	68056	1.00000	1.0573
7 Acenaphthene	154	3.623	3.627	(1.004)	35926	1.00000	1.1516
9 Fluorene	166	3.938	3.942	(1.092)	42211	1.00000	1.1307
11 Phenanthrene	178	4.574	4.578	(1.004)	56771	1.00000	0.9390
12 Anthracene	178	4.606	4.610	(1.011)	59817	1.00000	0.9961
13 Carbazole	167	4.734	4.738	(1.039)	55869	1.00000	0.9041
15 Fluoranthene	202	5.434	5.438	(1.192)	61813	1.00000	0.8589
16 Pyrene	202	5.600	5.604	(0.851)	69806	1.00000	1.0644
17 Benzo(a)anthracene	228	6.561	6.565	(0.998)	53450	1.00000	0.9521
19 Chrysene	228	6.588	6.597	(1.002)	63425	1.00000	1.1136
20 Benzo(b)fluoranthene	252	7.379	7.388	(0.964)	56273	1.00000	1.0599
21 Benzo(k)fluoranthene	252	7.400	7.409	(0.967)	64750	1.00000	1.0607(M)
22 Benzo(a)pyrene	252	7.603	7.612	(0.993)	51202	1.00000	0.0904
24 Indeno(1,2,3-cd)pyrene	276	8.410	8.430	(1.098)	43801	1.00000	1.0407(M)
25 Dibenzo(a,h)anthracene	278	8.436	8.457	(1.102)	47341	1.00000	1.0203(M)
26 Benzo(g,h,i)perylene	276	8.623	8.654	(1.126)	58526	1.00000	1.0486(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26004.D

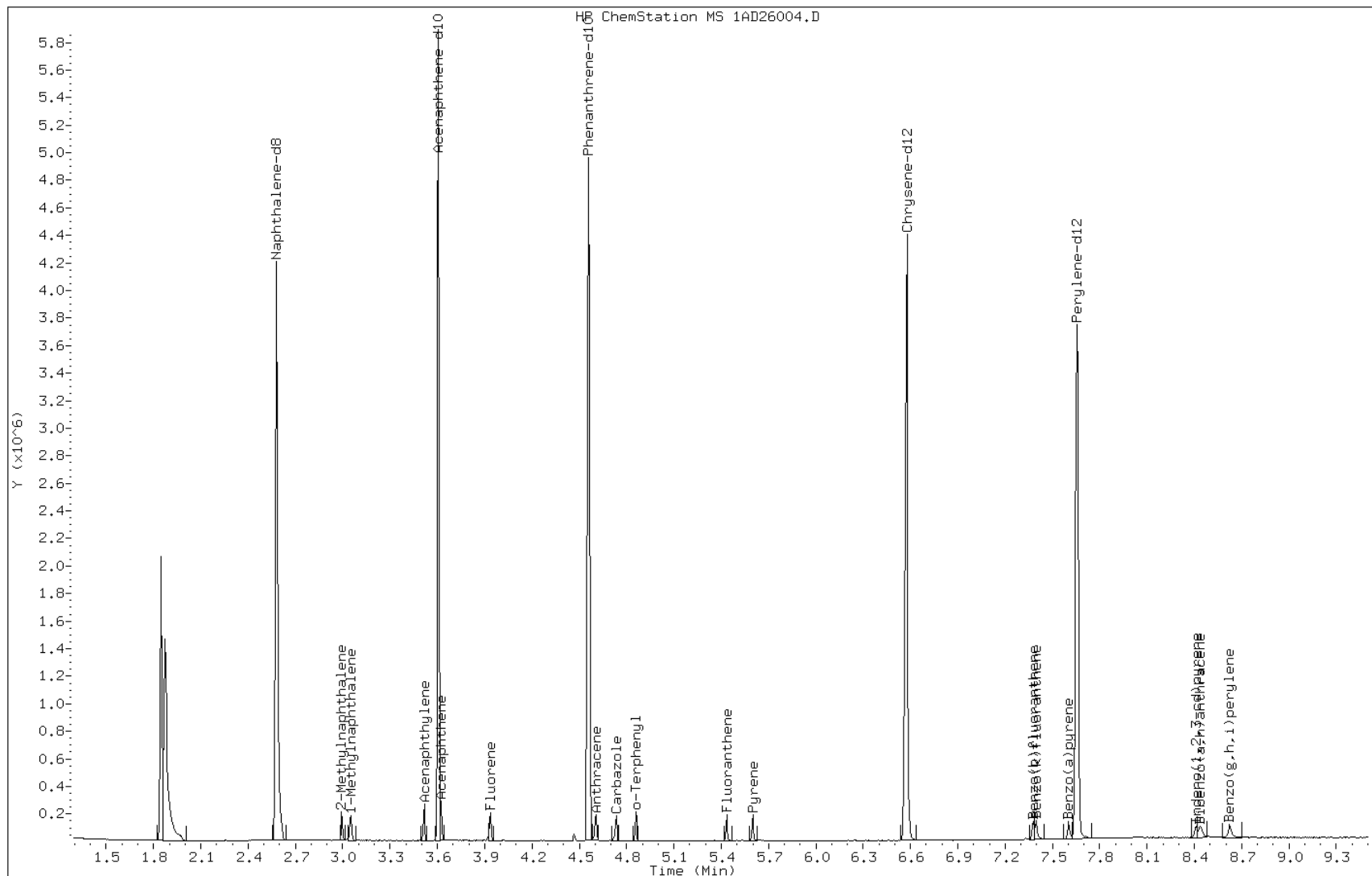
Date: 26-APR-2013 10:18

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531398

Operator: SCC

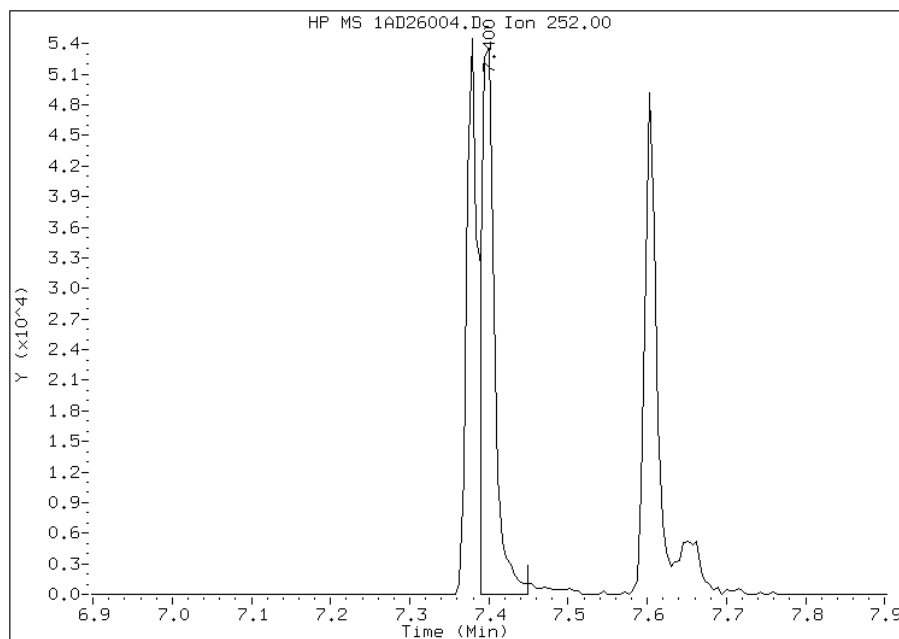


Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/26/2013

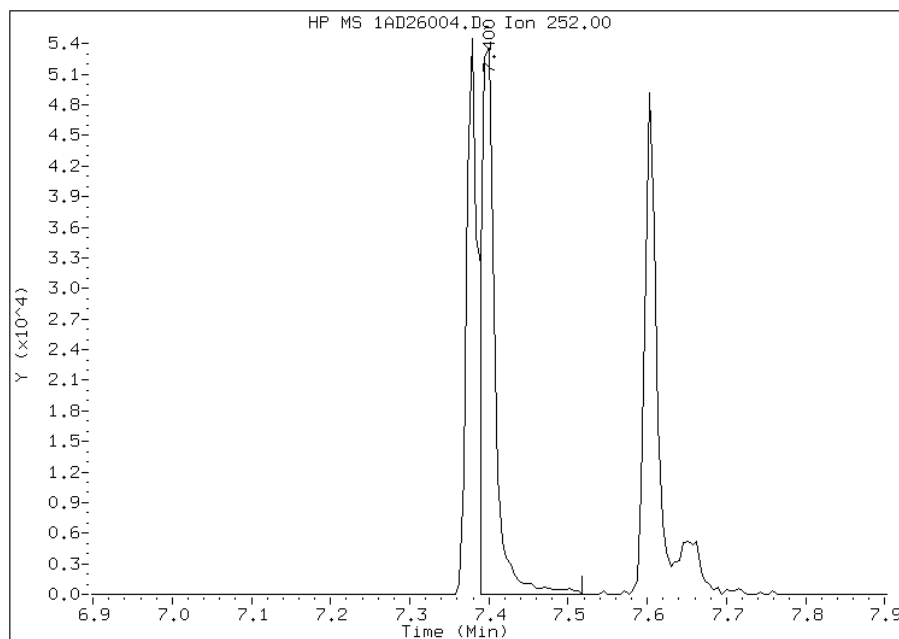
Processing Integration Results

RT: 7.40
Response: 62638
Amount: 1
Conc: 1



Manual Integration Results

RT: 7.40
Response: 64750
Amount: 1
Conc: 1



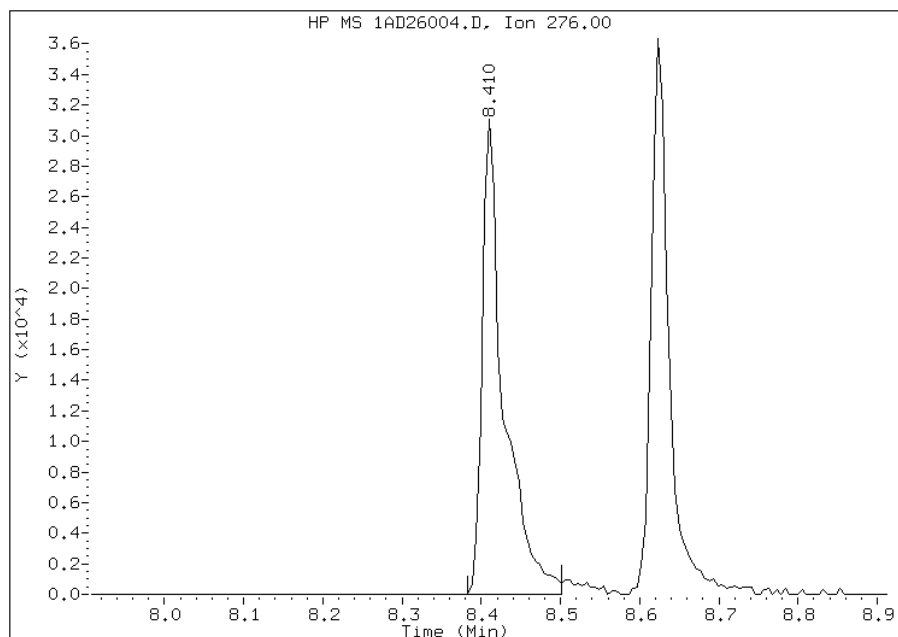
Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:51
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 04/26/2013

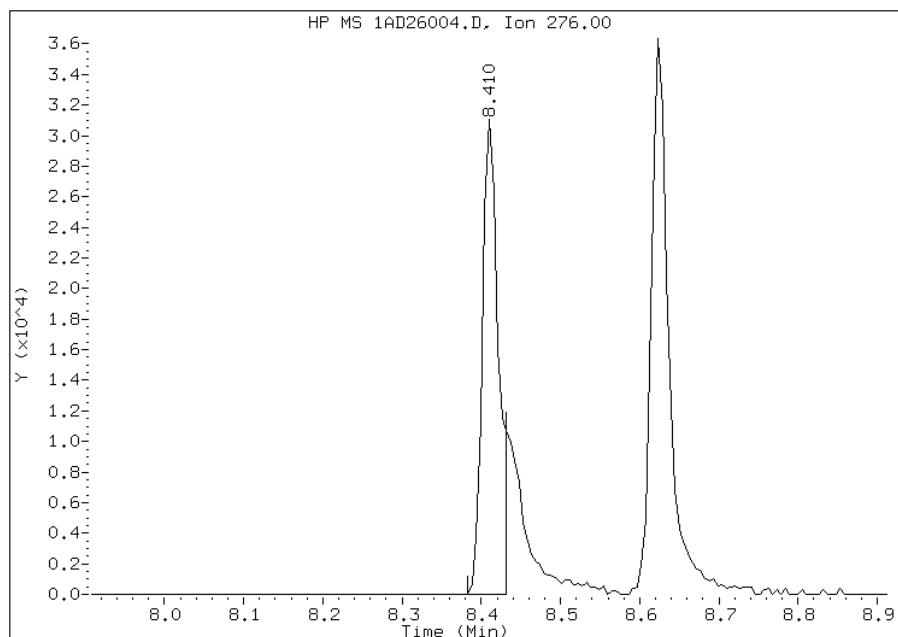
Processing Integration Results

RT: 8.41
Response: 58698
Amount: 1
Conc: 1



Manual Integration Results

RT: 8.41
Response: 43801
Amount: 1
Conc: 1



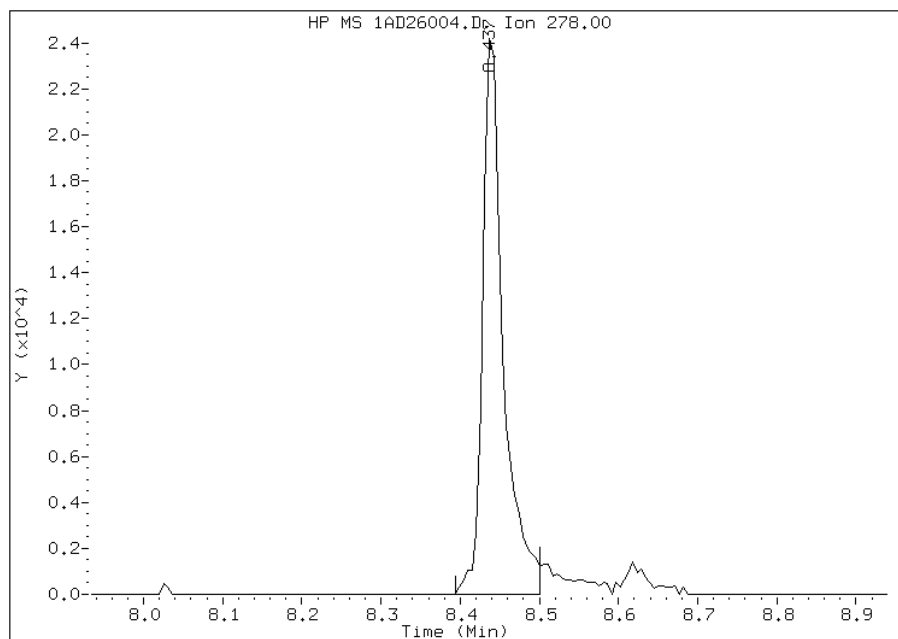
Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:52
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/26/2013

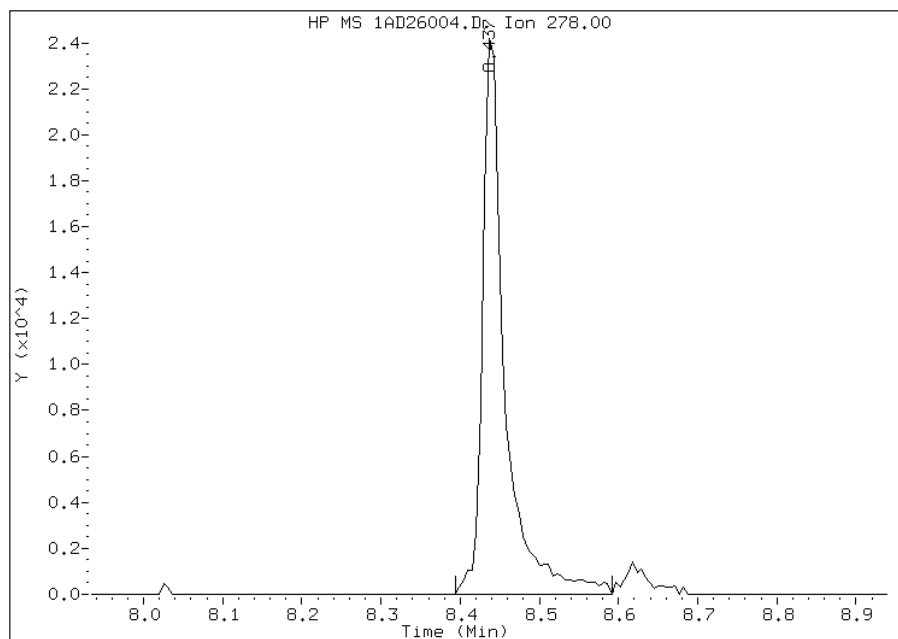
Processing Integration Results

RT: 8.44
Response: 43759
Amount: 1
Conc: 1



Manual Integration Results

RT: 8.44
Response: 47341
Amount: 1
Conc: 1



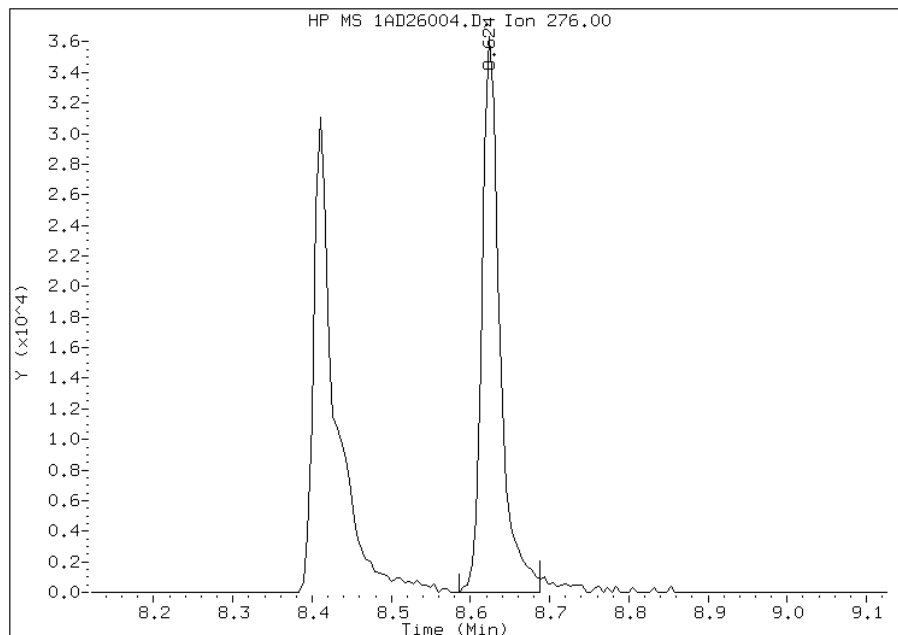
Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:52
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26004.D
Inj. Date and Time: 26-APR-2013 10:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

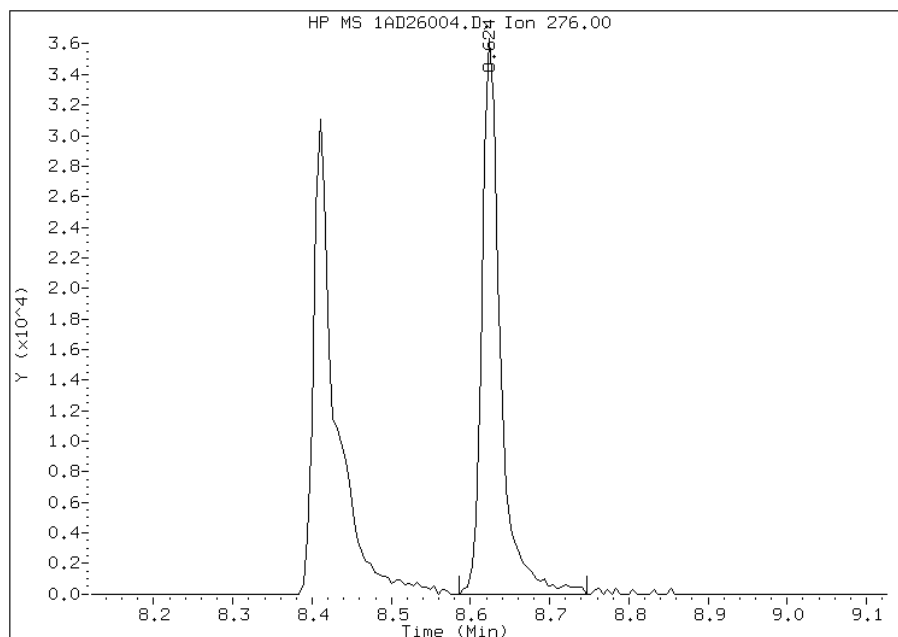
Processing Integration Results

RT: 8.62
Response: 56611
Amount: 1
Conc: 1



Manual Integration Results

RT: 8.62
Response: 58526
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:52
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26005.D
 Lab Smp Id: IC-1531399
 Inj Date : 26-APR-2013 10:33
 Operator : SCC
 Smp Info : IC-1531399
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
 Cal Date : 26-APR-2013 10:18 Cal File: 1AD26004.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)
* 1 Naphthalene-d8	136		2.576	2.580	(1.000)	2369530	40.0000	
* 6 Acenaphthene-d10	164		3.607	3.606	(1.000)	1090579	40.0000	
* 10 Phenanthrene-d10	188		4.558	4.562	(1.000)	1892246	40.0000	
\$ 14 o-Terphenyl	230		4.862	4.861	(1.067)	177967	5.00000	5.2550
* 18 Chrysene-d12	240		6.577	6.581	(1.000)	1853494	40.0000	
* 23 Perylene-d12	264		7.662	7.666	(1.000)	1935554	40.0000	
2 Naphthalene	128		2.592	2.591	(1.006)	320082	5.00000	5.0894
3 2-Methylnaphthalene	141		2.993	2.997	(1.162)	193264	5.00000	5.1484
4 1-Methylnaphthalene	142		3.051	3.050	(1.185)	216239	5.00000	5.2724
5 Acenaphthylene	152		3.516	3.520	(0.975)	366926	5.00000	5.0915
7 Acenaphthene	154		3.623	3.627	(1.004)	188346	5.00000	5.1131
9 Fluorene	166		3.938	3.942	(1.092)	226787	5.00000	4.9845
11 Phenanthrene	178		4.574	4.578	(1.004)	300982	5.00000	5.2917
12 Anthracene	178		4.606	4.610	(1.011)	320832	5.00000	5.1089
13 Carbazole	167		4.734	4.738	(1.039)	309273	5.00000	5.3789
15 Fluoranthene	202		5.434	5.438	(1.192)	362121	5.00000	5.3053
16 Pyrene	202		5.600	5.604	(0.851)	387490	5.00000	5.4798
17 Benzo(a)anthracene	228		6.566	6.565	(0.998)	302918	5.00000	5.0044
19 Chrysene	228		6.593	6.597	(1.002)	322491	5.00000	5.2515
20 Benzo(b)fluoranthene	252		7.378	7.388	(0.963)	315397	5.00000	5.3673
21 Benzo(k)fluoranthene	252		7.400	7.409	(0.966)	394484	5.00000	5.8388
22 Benzo(a)pyrene	252		7.608	7.612	(0.993)	334183	5.00000	5.1981
24 Indeno(1,2,3-cd)pyrene	276		8.420	8.430	(1.099)	290809	5.00000	5.0945
25 Dibenzo(a,h)anthracene	278		8.447	8.457	(1.102)	292736	5.00000	5.6999(M)
26 Benzo(g,h,i)perylene	276		8.634	8.654	(1.127)	339141	5.00000	5.4899(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26005.D

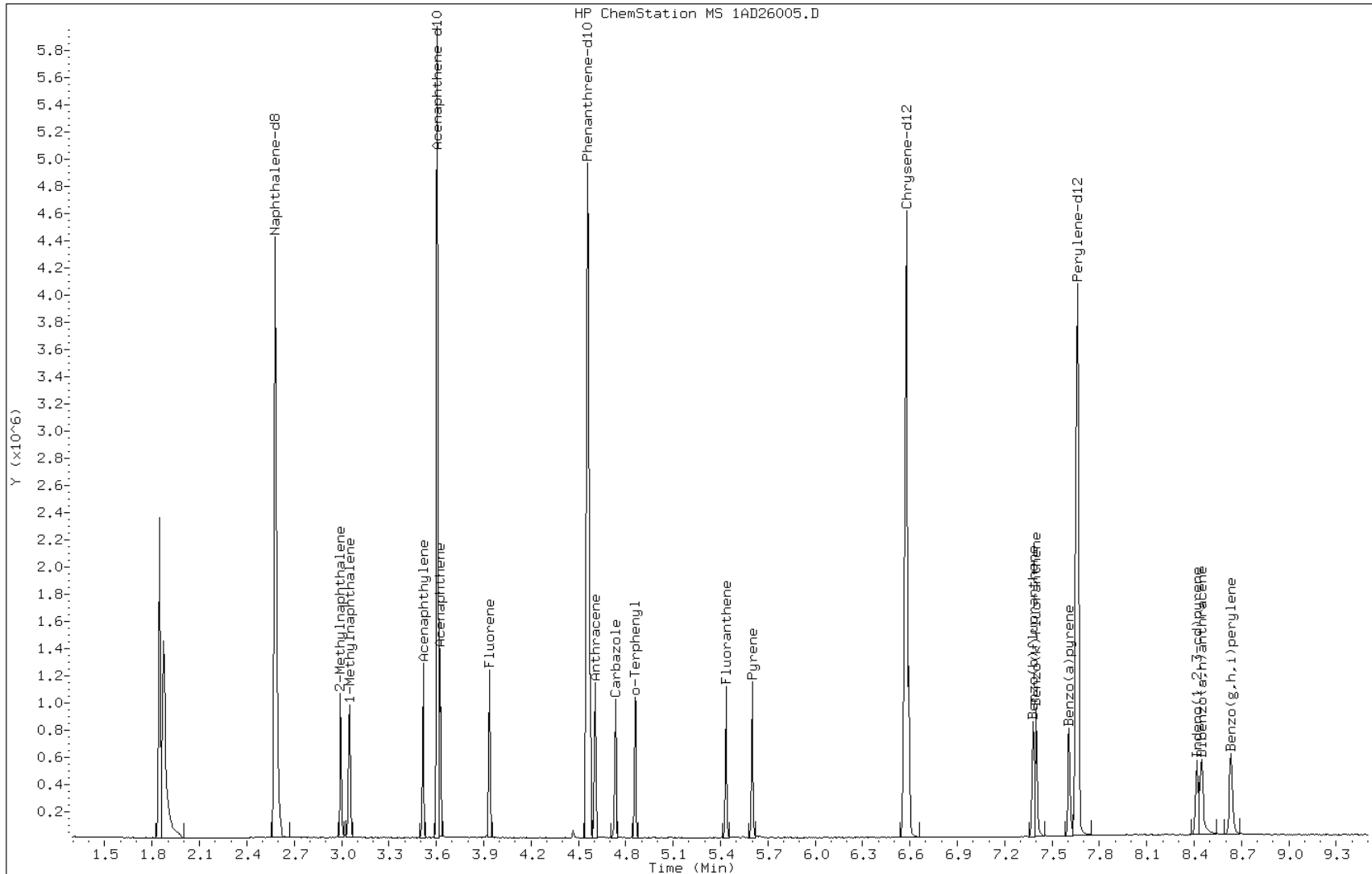
Date: 26-APR-2013 10:33

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531399

Operator: SCC

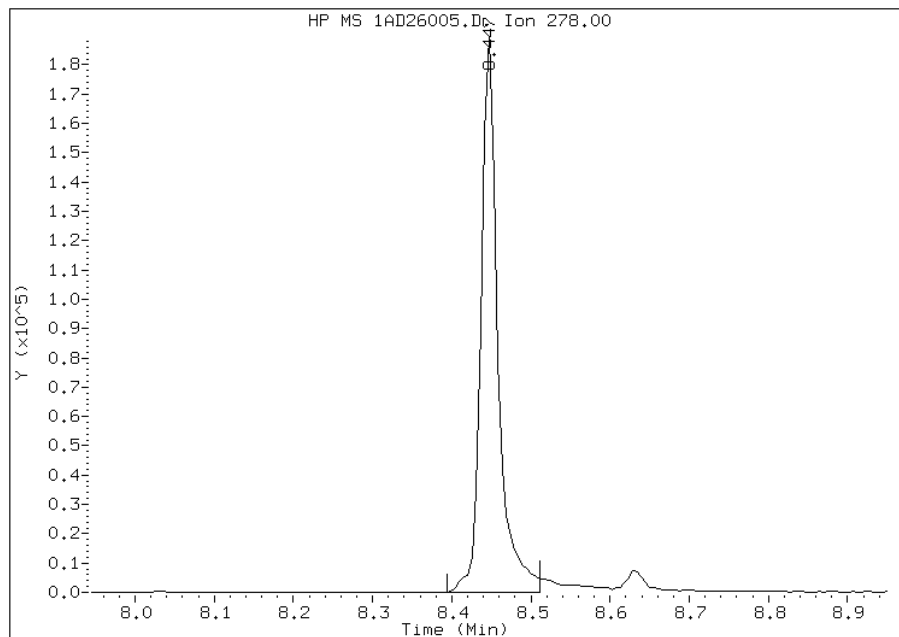


Manual Integration Report

Data File: 1AD26005.D
Inj. Date and Time: 26-APR-2013 10:33
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/26/2013

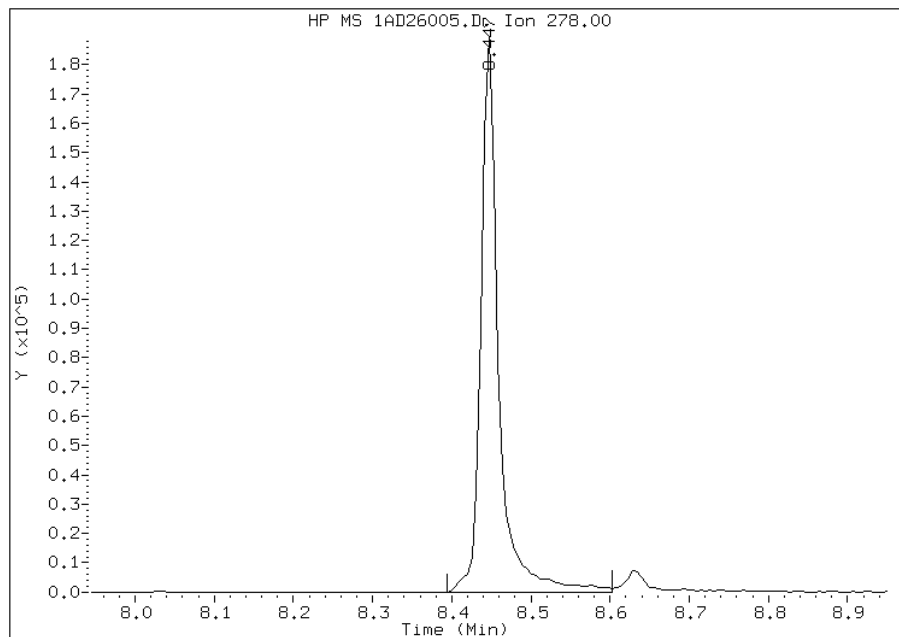
Processing Integration Results

RT: 8.45
Response: 277866
Amount: 6
Conc: 6



Manual Integration Results

RT: 8.45
Response: 292736
Amount: 6
Conc: 6



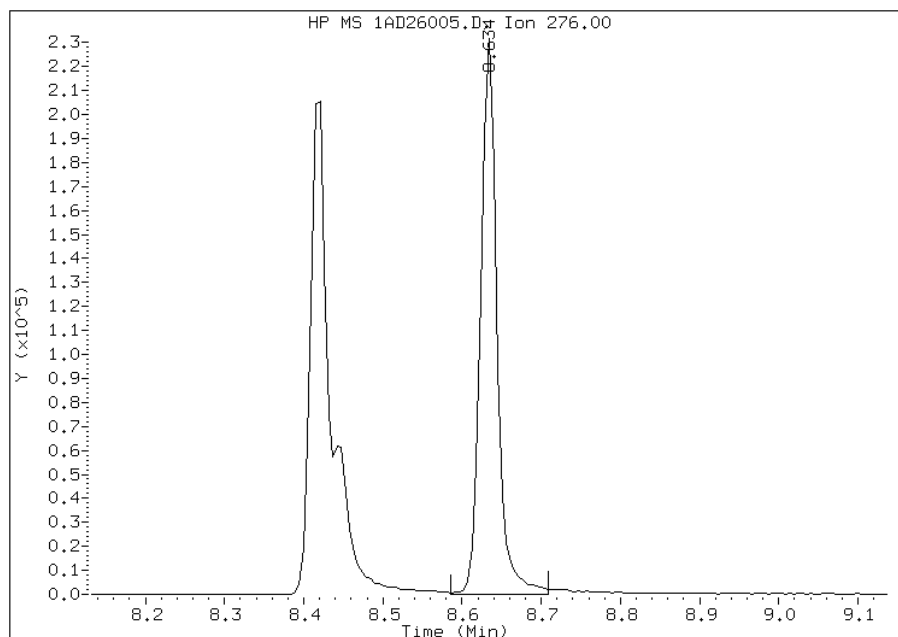
Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:53
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26005.D
Inj. Date and Time: 26-APR-2013 10:33
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

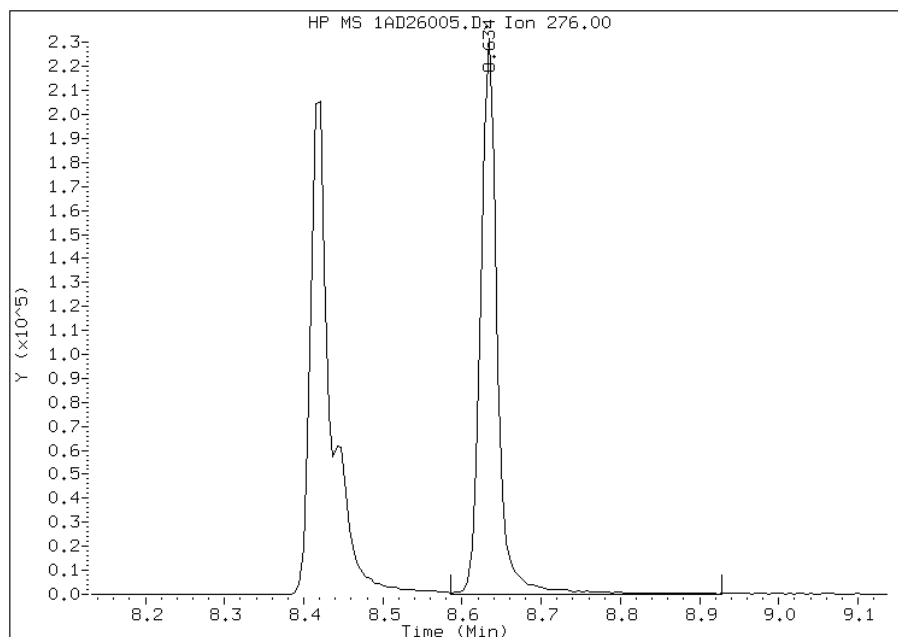
Processing Integration Results

RT: 8.63
Response: 328220
Amount: 5
Conc: 5



Manual Integration Results

RT: 8.63
Response: 339141
Amount: 5
Conc: 5



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:53
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26006.D
 Lab Smp Id: IC-1531400
 Inj Date : 26-APR-2013 10:48
 Operator : SCC
 Smp Info : IC-1531400
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
 Cal Date : 26-APR-2013 10:33 Cal File: 1AD26005.D
 Als bottle: 6 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.581	2.580	(1.000)	2323692	40.0000	
* 6 Acenaphthene-d10	164	3.606	3.606	(1.000)	1066140	40.0000	
* 10 Phenanthrene-d10	188	4.563	4.562	(1.000)	1871240	40.0000	
\$ 14 o-Terphenyl	230	4.862	4.861	(1.066)	310562	10.0000	9.7321
* 18 Chrysene-d12	240	6.582	6.581	(1.000)	1765506	40.0000	
* 23 Perylene-d12	264	7.661	7.666	(1.000)	1844103	40.0000	
2 Naphthalene	128	2.591	2.591	(1.004)	595222	10.0000	9.8376
3 2-Methylnaphthalene	141	2.997	2.997	(1.161)	341254	10.0000	9.6150
4 1-Methylnaphthalene	142	3.051	3.050	(1.182)	376560	10.0000	9.8086
5 Acenaphthylene	152	3.515	3.520	(0.975)	648059	10.0000	9.6521
7 Acenaphthene	154	3.622	3.627	(1.004)	324917	10.0000	9.4098
9 Fluorene	166	3.937	3.942	(1.092)	405299	10.0000	9.4592
11 Phenanthrene	178	4.573	4.578	(1.002)	533287	10.0000	9.9071
12 Anthracene	178	4.605	4.610	(1.009)	579771	10.0000	9.8285
13 Carbazole	167	4.739	4.738	(1.039)	544612	10.0000	9.9049
15 Fluoranthene	202	5.439	5.438	(1.192)	653973	10.0000	10.0511
16 Pyrene	202	5.604	5.604	(0.851)	693219	10.0000	10.2919
17 Benzo(a)anthracene	228	6.566	6.565	(0.998)	543586	10.0000	9.4280
19 Chrysene	228	6.598	6.597	(1.002)	574179	10.0000	9.8161
20 Benzo(b)fluoranthene	252	7.383	7.388	(0.964)	597877	10.0000	10.6790
21 Benzo(k)fluoranthene	252	7.405	7.409	(0.967)	634191	10.0000	9.8523
22 Benzo(a)pyrene	252	7.608	7.612	(0.993)	604286	10.0000	10.7211
24 Indeno(1,2,3-cd)pyrene	276	8.420	8.430	(1.099)	557142	10.0000	10.0121
25 Dibenzo(a,h)anthracene	278	8.446	8.457	(1.103)	529334	10.0000	10.8180(M)
26 Benzo(g,h,i)perylene	276	8.639	8.654	(1.128)	616524	10.0000	10.4750(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26006.D

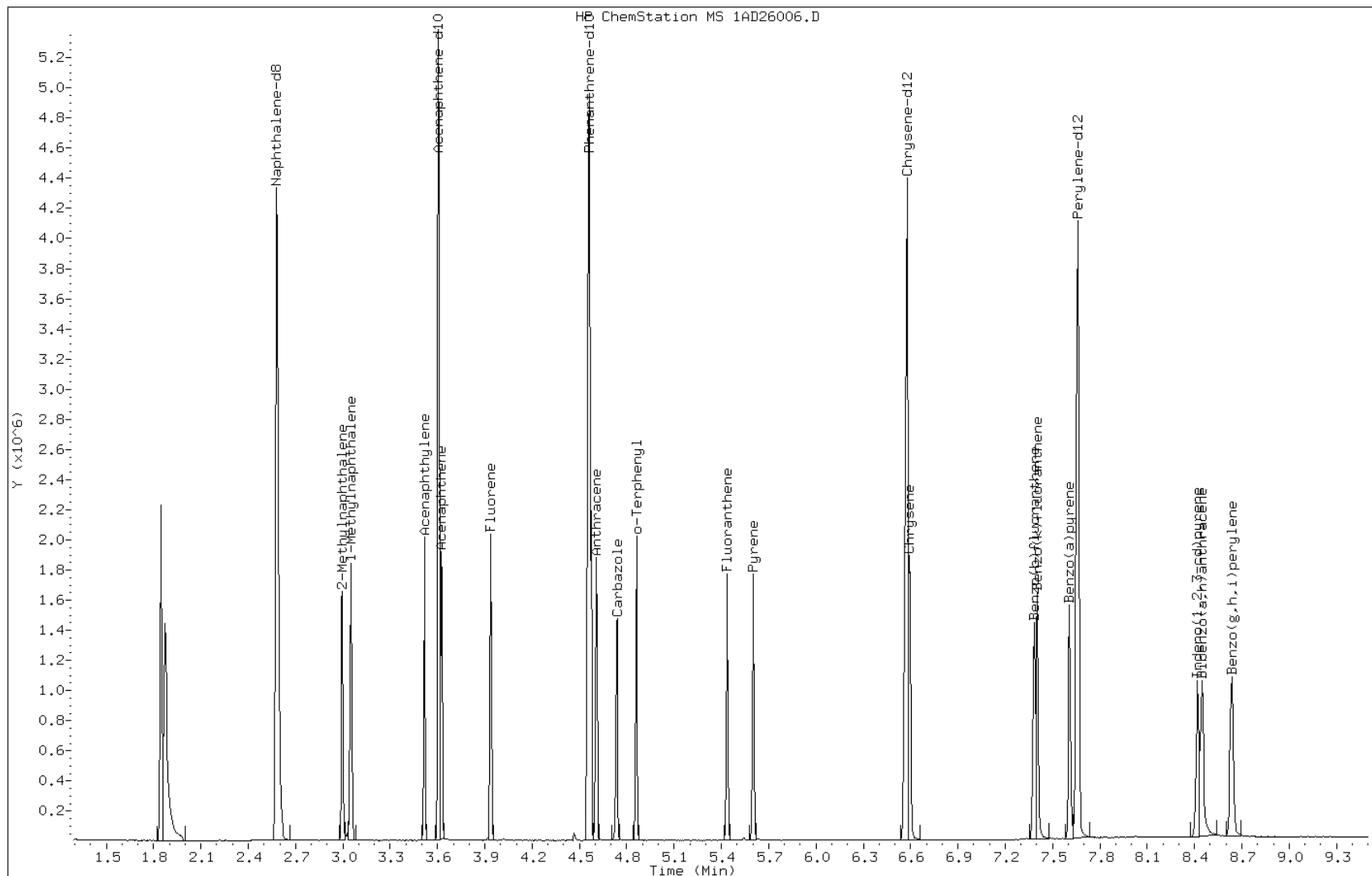
Date: 26-APR-2013 10:48

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531400

Operator: SCC

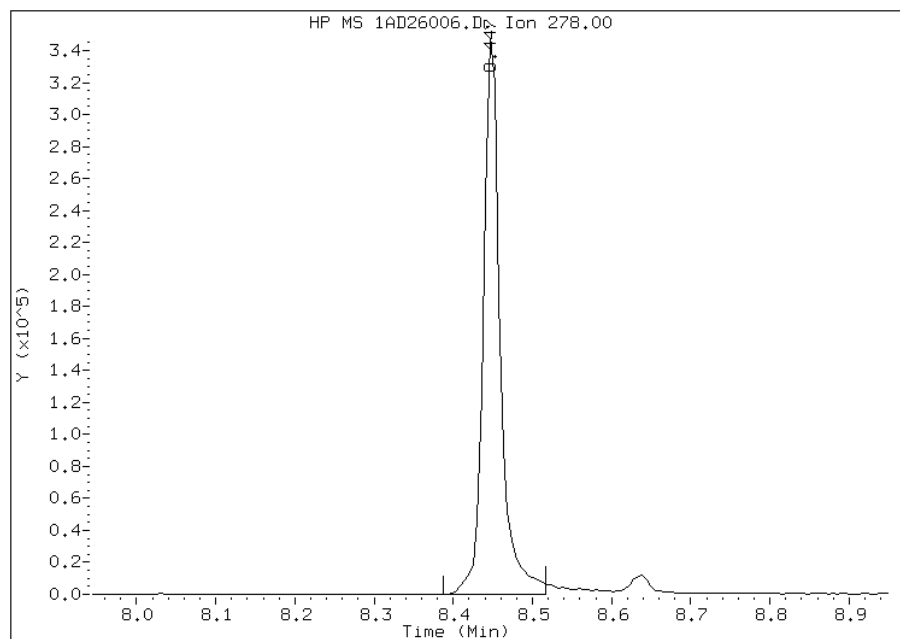


Manual Integration Report

Data File: 1AD26006.D
Inj. Date and Time: 26-APR-2013 10:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 04/26/2013

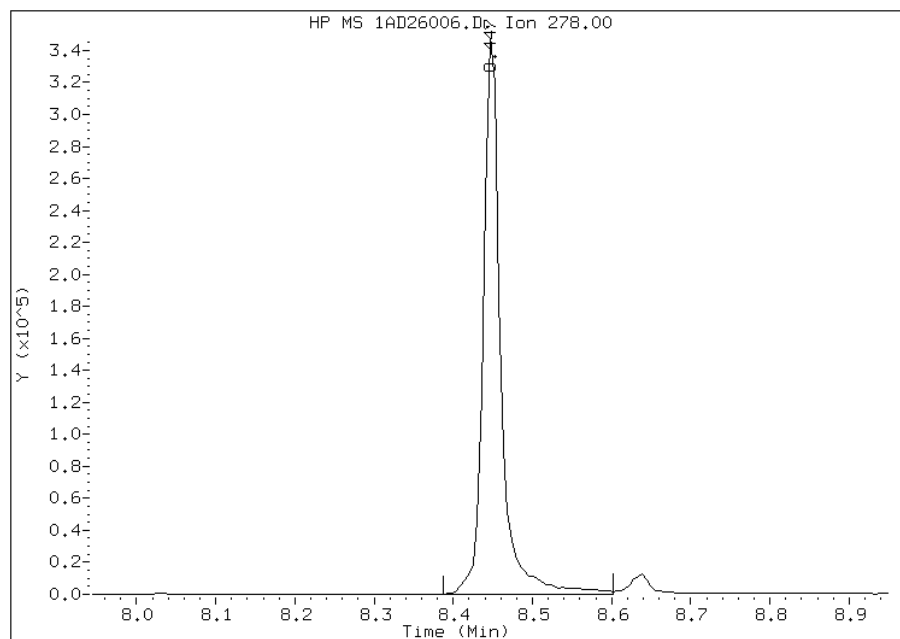
Processing Integration Results

RT: 8.45
Response: 511528
Amount: 11
Conc: 11



Manual Integration Results

RT: 8.45
Response: 529334
Amount: 11
Conc: 11



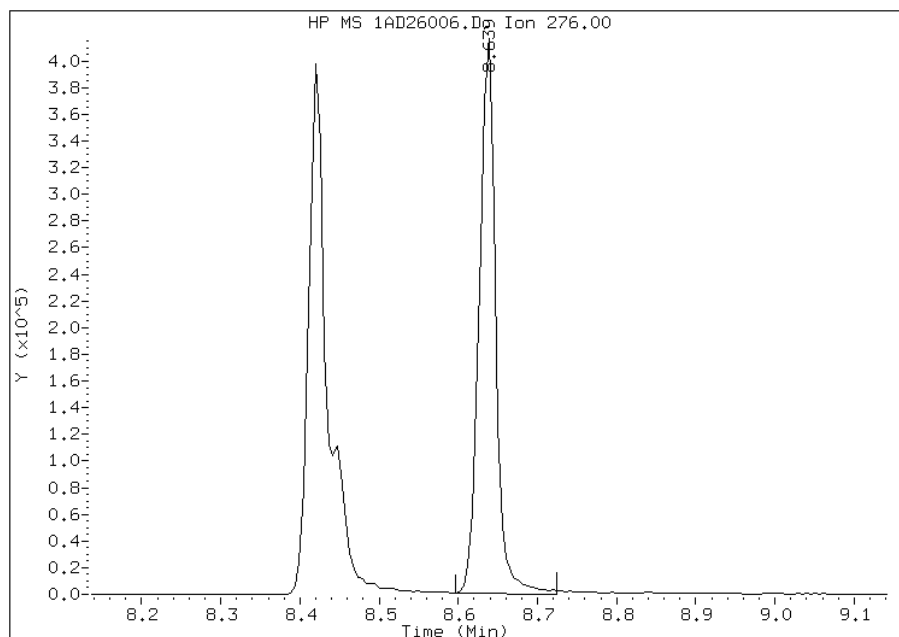
Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:54
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26006.D
Inj. Date and Time: 26-APR-2013 10:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 04/26/2013

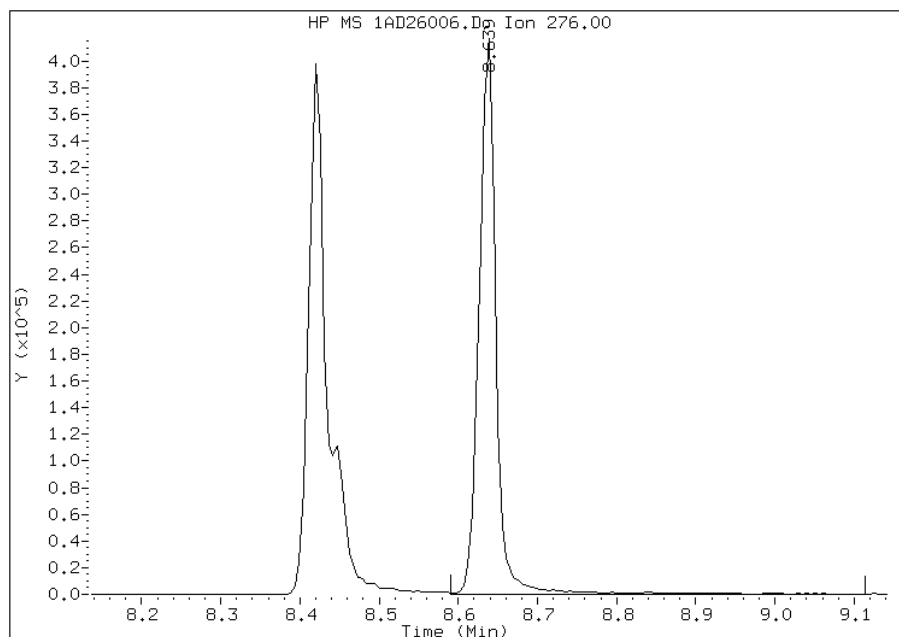
Processing Integration Results

RT: 8.64
Response: 592263
Amount: 10
Conc: 10



Manual Integration Results

RT: 8.64
Response: 616524
Amount: 10
Conc: 10



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:54
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26007.D
 Lab Smp Id: ICIS-1531401
 Inj Date : 26-APR-2013 11:03
 Operator : SCC
 Smp Info : ICIS-1531401
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
 Cal Date : 26-APR-2013 10:48 Cal File: 1AD26006.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	2.580	2.580	(1.000)	2358748	40.0000	
* 6 Acenaphthene-d10	164	3.606	3.606	(1.000)	1131055	40.0000	
* 10 Phenanthrene-d10	188	4.562	4.562	(1.000)	1941405	40.0000	
\$ 14 o-Terphenyl	230	4.861	4.861	(1.066)	600782	20.0000	19.8656
* 18 Chrysene-d12	240	6.581	6.581	(1.000)	1806882	40.0000	
* 23 Perylene-d12	264	7.666	7.666	(1.000)	1862358	40.0000	
2 Naphthalene	128	2.591	2.591	(1.004)	1158716	20.0000	19.7046
3 2-Methylnaphthalene	141	2.997	2.997	(1.161)	669822	20.0000	20.1454
4 1-Methylnaphthalene	142	3.050	3.050	(1.182)	706538	20.0000	19.6964
5 Acenaphthylene	152	3.520	3.520	(0.976)	1265667	20.0000	19.6212
7 Acenaphthene	154	3.627	3.627	(1.006)	634267	20.0000	19.1257
9 Fluorene	166	3.942	3.942	(1.093)	807968	20.0000	19.5803
11 Phenanthrene	178	4.578	4.578	(1.004)	1040972	20.0000	19.9793
12 Anthracene	178	4.610	4.610	(1.011)	1112517	20.0000	19.9518
13 Carbazole	167	4.738	4.738	(1.039)	1091227	20.0000	20.1348
15 Fluoranthene	202	5.438	5.438	(1.192)	1286350	20.0000	20.1741
16 Pyrene	202	5.604	5.604	(0.851)	1367080	20.0000	19.8317
17 Benzo(a)anthracene	228	6.565	6.565	(0.998)	1149947	20.0000	19.4881
19 Chrysene	228	6.597	6.597	(1.002)	1097962	20.0000	18.3408(M)
20 Benzo(b)fluoranthene	252	7.388	7.388	(0.964)	1243307	20.0000	21.9898
21 Benzo(k)fluoranthene	252	7.409	7.409	(0.967)	1166129	20.0000	17.9385
22 Benzo(a)pyrene	252	7.612	7.612	(0.993)	1187145	20.0000	21.7561
24 Indeno(1,2,3-cd)pyrene	276	8.430	8.430	(1.100)	1156108	20.0000	20.3300
25 Dibenzo(a,h)anthracene	278	8.457	8.457	(1.103)	1028761	20.0000	20.8187
26 Benzo(g,h,i)perylene	276	8.654	8.654	(1.129)	1185137	20.0000	19.9387

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26007.D

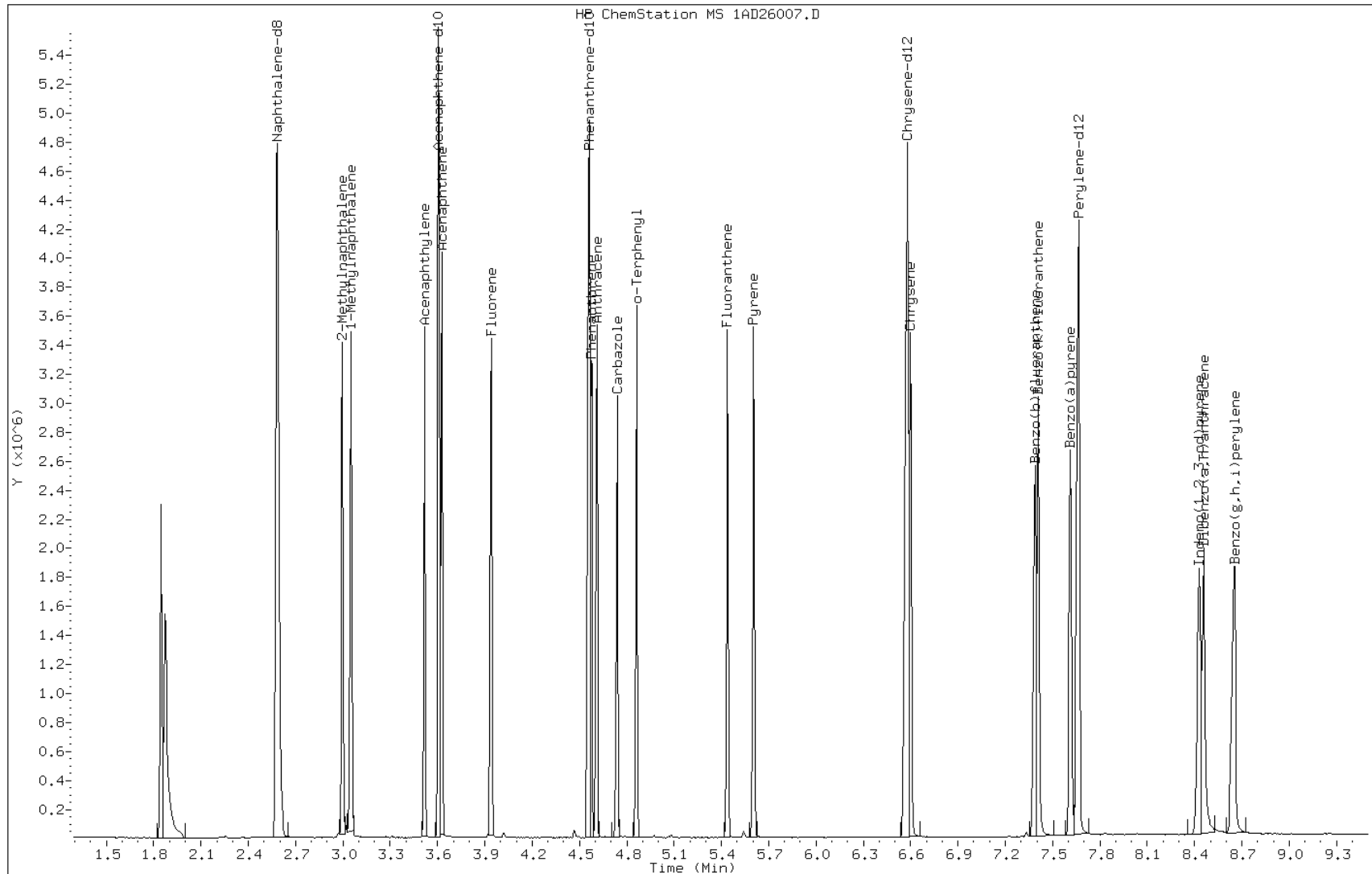
Date: 26-APR-2013 11:03

Client ID:

Instrument: BSMA5973.i

Sample Info: ICIS-1531401

Operator: SCC

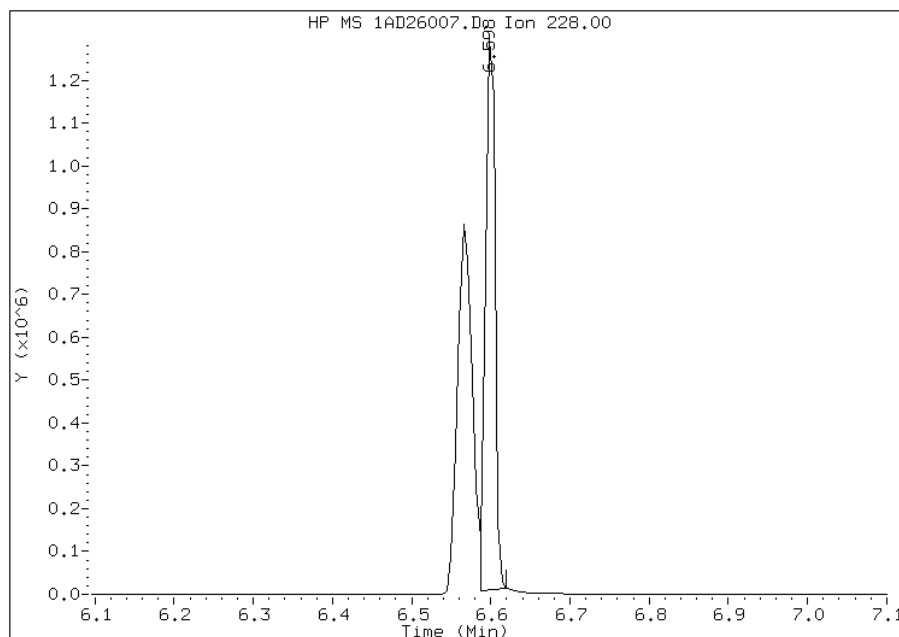


Manual Integration Report

Data File: 1AD26007.D
Inj. Date and Time: 26-APR-2013 11:03
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/26/2013

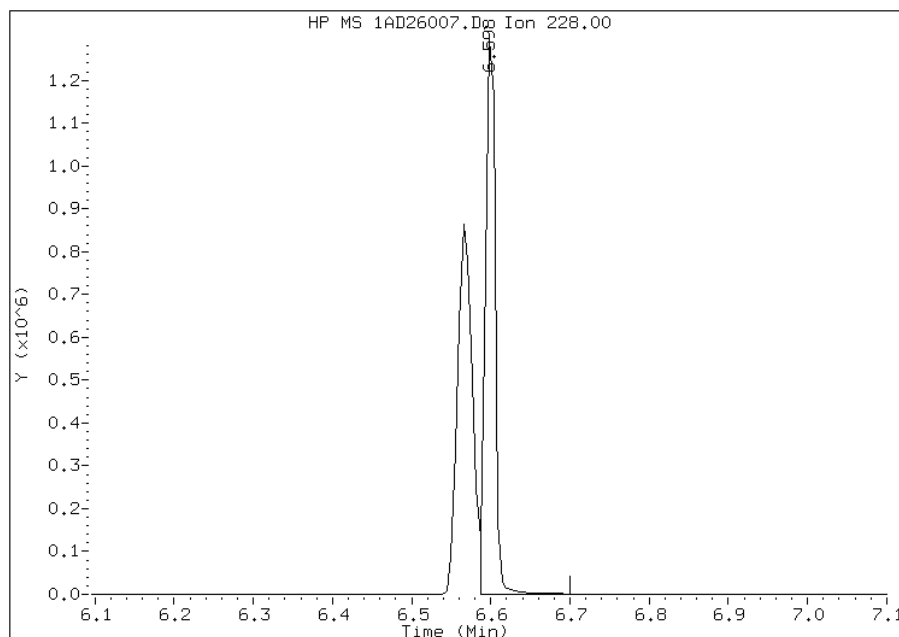
Processing Integration Results

RT: 6.60
Response: 1056771
Amount: 17
Conc: 17



Manual Integration Results

RT: 6.60
Response: 1097962
Amount: 18
Conc: 18



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:58
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26008.D
 Lab Smp Id: IC-1531402
 Inj Date : 26-APR-2013 11:19
 Operator : SCC
 Smp Info : IC-1531402
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26008.D
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
 Cal Date : 26-APR-2013 11:03 Cal File: 1AD26007.D
 Als bottle: 8 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.578	2.580	(1.000)	2081137	40.0000	
* 6 Acenaphthene-d10	164	3.609	3.606	(1.000)	971255	40.0000	
* 10 Phenanthrene-d10	188	4.560	4.562	(1.000)	1708155	40.0000	
\$ 14 o-Terphenyl	230	4.864	4.861	(1.067)	747046	30.0000	30.2447
* 18 Chrysene-d12	240	6.584	6.581	(1.000)	1549882	40.0000	
* 23 Perylene-d12	264	7.663	7.666	(1.000)	1665910	40.0000	
2 Naphthalene	128	2.594	2.591	(1.006)	1510520	30.0000	30.4015
3 2-Methylnaphthalene	141	2.994	2.997	(1.162)	827941	30.0000	30.0747
4 1-Methylnaphthalene	142	3.053	3.050	(1.184)	894050	30.0000	30.3598
5 Acenaphthylene	152	3.518	3.520	(0.975)	1556064	30.0000	30.6998
7 Acenaphthene	154	3.625	3.627	(1.004)	810394	30.0000	31.5304
9 Fluorene	166	3.940	3.942	(1.092)	1002855	30.0000	30.9795
11 Phenanthrene	178	4.576	4.578	(1.004)	1299367	30.0000	29.9559
12 Anthracene	178	4.613	4.610	(1.012)	1371502	30.0000	30.1453
13 Carbazole	167	4.741	4.738	(1.040)	1364561	30.0000	29.7567
15 Fluoranthene	202	5.441	5.438	(1.193)	1591115	30.0000	29.6375
16 Pyrene	202	5.607	5.604	(0.852)	1716784	30.0000	29.0345
17 Benzo(a)anthracene	228	6.568	6.565	(0.998)	1427778	30.0000	28.2088
19 Chrysene	228	6.600	6.597	(1.002)	1401601	30.0000	27.2953(M)
20 Benzo(b)fluoranthene	252	7.391	7.388	(0.964)	1402018	30.0000	27.7209
21 Benzo(k)fluoranthene	252	7.412	7.409	(0.967)	1618107	30.0000	27.8265
22 Benzo(a)pyrene	252	7.615	7.612	(0.994)	1470103	30.0000	30.4849
24 Indeno(1,2,3-cd)pyrene	276	8.427	8.430	(1.100)	1470861	30.0000	28.8179
25 Dibenzo(a,h)anthracene	278	8.459	8.457	(1.104)	1321140	30.0000	29.8882
26 Benzo(g,h,i)perylene	276	8.652	8.654	(1.129)	1524482	30.0000	28.6723

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26008.D

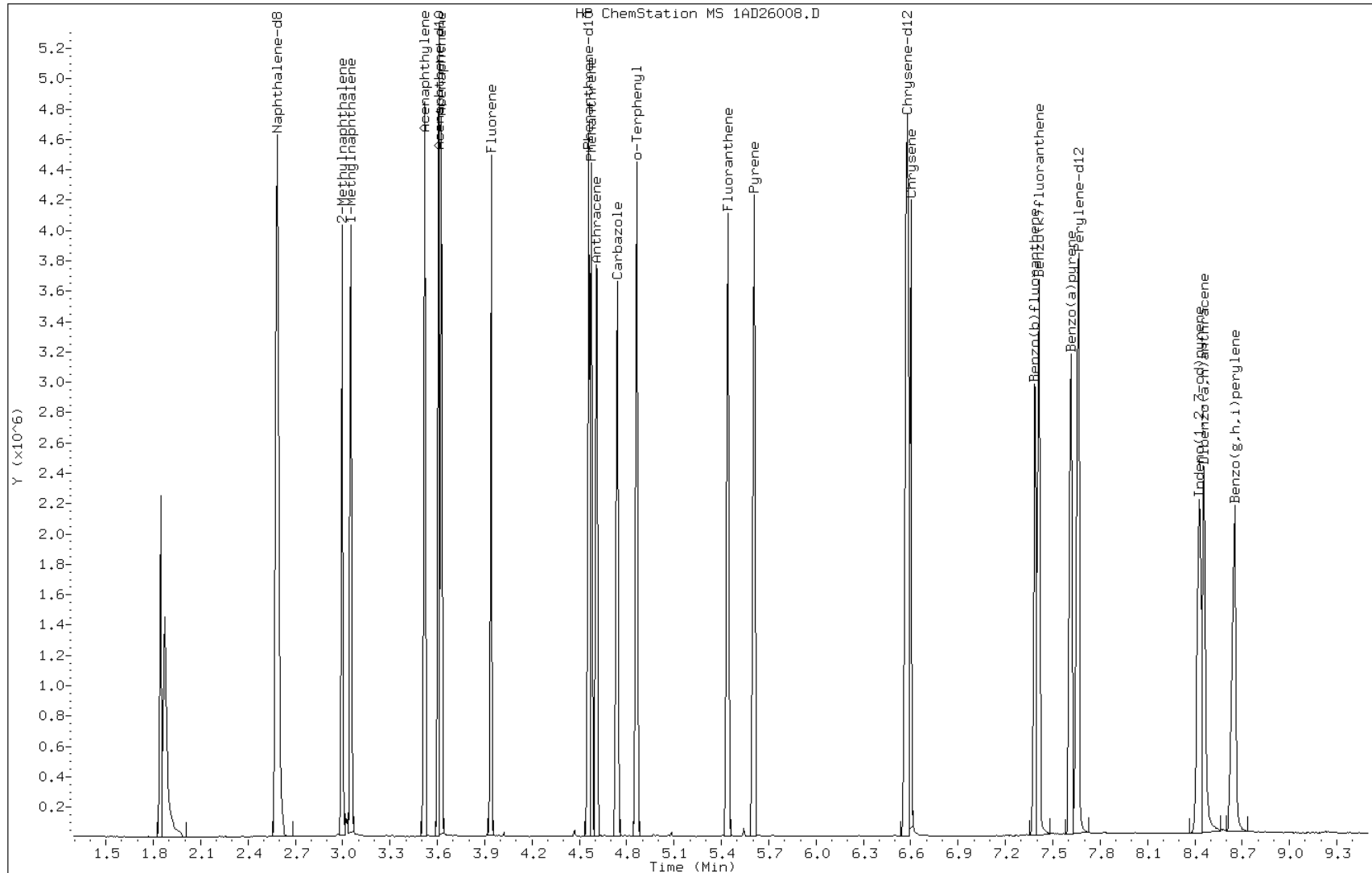
Date: 26-APR-2013 11:19

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531402

Operator: SCC

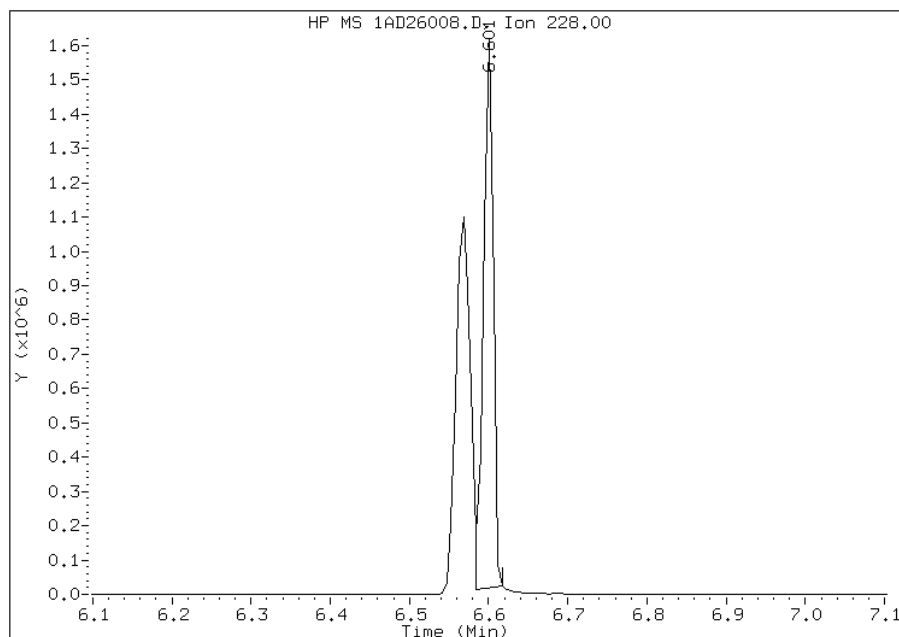


Manual Integration Report

Data File: 1AD26008.D
Inj. Date and Time: 26-APR-2013 11:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/26/2013

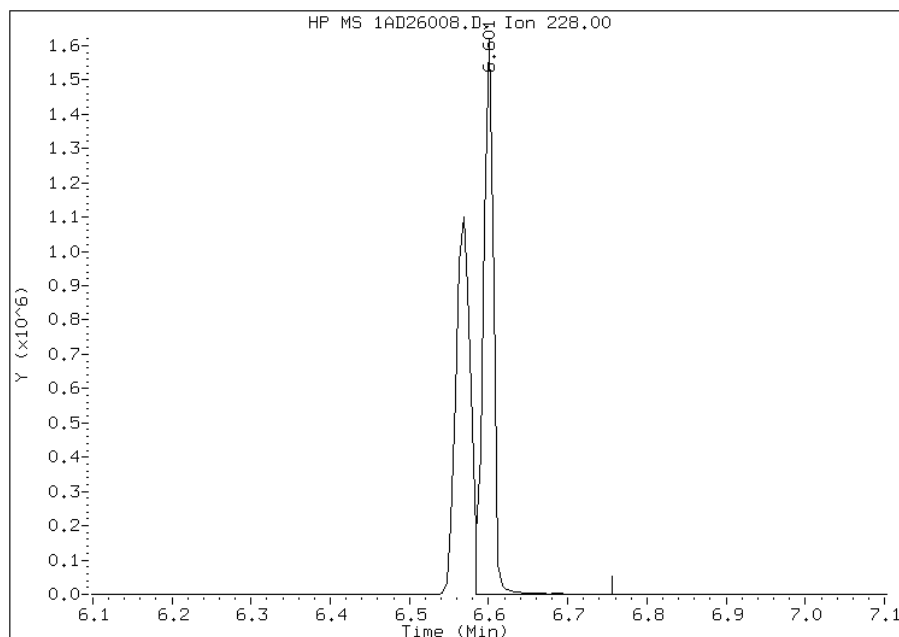
Processing Integration Results

RT: 6.60
Response: 1330257
Amount: 26
Conc: 26



Manual Integration Results

RT: 6.60
Response: 1401601
Amount: 27
Conc: 27



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:56
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26009.D
 Lab Smp Id: IC-1531403
 Inj Date : 26-APR-2013 11:34
 Operator : SCC
 Smp Info : IC-1531403
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\A-BFASTPAHi-m.m
 Meth Date : 26-Apr-2013 12:59 BSMA5973.i Quant Type: ISTD
 Cal Date : 26-APR-2013 11:19 Cal File: 1AD26008.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	2.581	2.580	(1.000)	2198265	40.0000		
* 6 Acenaphthene-d10	164	3.607	3.606	(1.000)	1085200	40.0000		
* 10 Phenanthrene-d10	188	4.563	4.562	(1.000)	1842852	40.0000		
\$ 14 o-Terphenyl	230	4.868	4.861	(1.067)	1190919	50.0000	49.9310	
* 18 Chrysene-d12	240	6.588	6.581	(1.000)	1568229	40.0000		
* 23 Perylene-d12	264	7.667	7.666	(1.000)	1740423	40.0000		
2 Naphthalene	128	2.592	2.591	(1.004)	2445644	50.0000	49.8939	
3 2-Methylnaphthalene	141	2.998	2.997	(1.161)	1310841	50.0000	49.9542	
4 1-Methylnaphthalene	142	3.057	3.050	(1.184)	1398370	50.0000	49.9099	
5 Acenaphthylene	152	3.521	3.520	(0.976)	2504346	50.0000	49.7738	
7 Acenaphthene	154	3.628	3.627	(1.006)	1267057	50.0000	49.4576	
9 Fluorene	166	3.943	3.942	(1.093)	1599840	50.0000	49.6541	
11 Phenanthrene	178	4.579	4.578	(1.004)	2139281	50.0000	50.0234(A)	
12 Anthracene	178	4.617	4.610	(1.012)	2186210	50.0000	49.9541	
13 Carbazole	167	4.745	4.738	(1.040)	2311786	50.0000	50.0703(A)	
15 Fluoranthene	202	5.450	5.438	(1.194)	2681447	50.0000	50.1042(A)	
16 Pyrene	202	5.616	5.604	(0.852)	2760027	50.0000	46.1318	
17 Benzo(a)anthracene	228	6.572	6.565	(0.998)	2561817	50.0000	50.0220(A)	
19 Chrysene	228	6.609	6.597	(1.003)	2209729	50.0000	42.5296(M)	
20 Benzo(b)fluoranthene	252	7.394	7.388	(0.964)	2501570	50.0000	47.3439	
21 Benzo(k)fluoranthene	252	7.421	7.409	(0.968)	2519945	50.0000	41.4801(M)	
22 Benzo(a)pyrene	252	7.624	7.612	(0.994)	2426657	50.0000	48.7188	
24 Indeno(1,2,3-cd)pyrene	276	8.442	8.430	(1.101)	2703546	50.0000	50.5272(A)	
25 Dibenzo(a,h)anthracene	278	8.474	8.457	(1.105)	2207196	50.0000	47.7957	
26 Benzo(g,h,i)perylene	276	8.671	8.654	(1.131)	2645132	50.0000	47.6194	

QC Flag Legend

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

Data File: 1AD26009.D

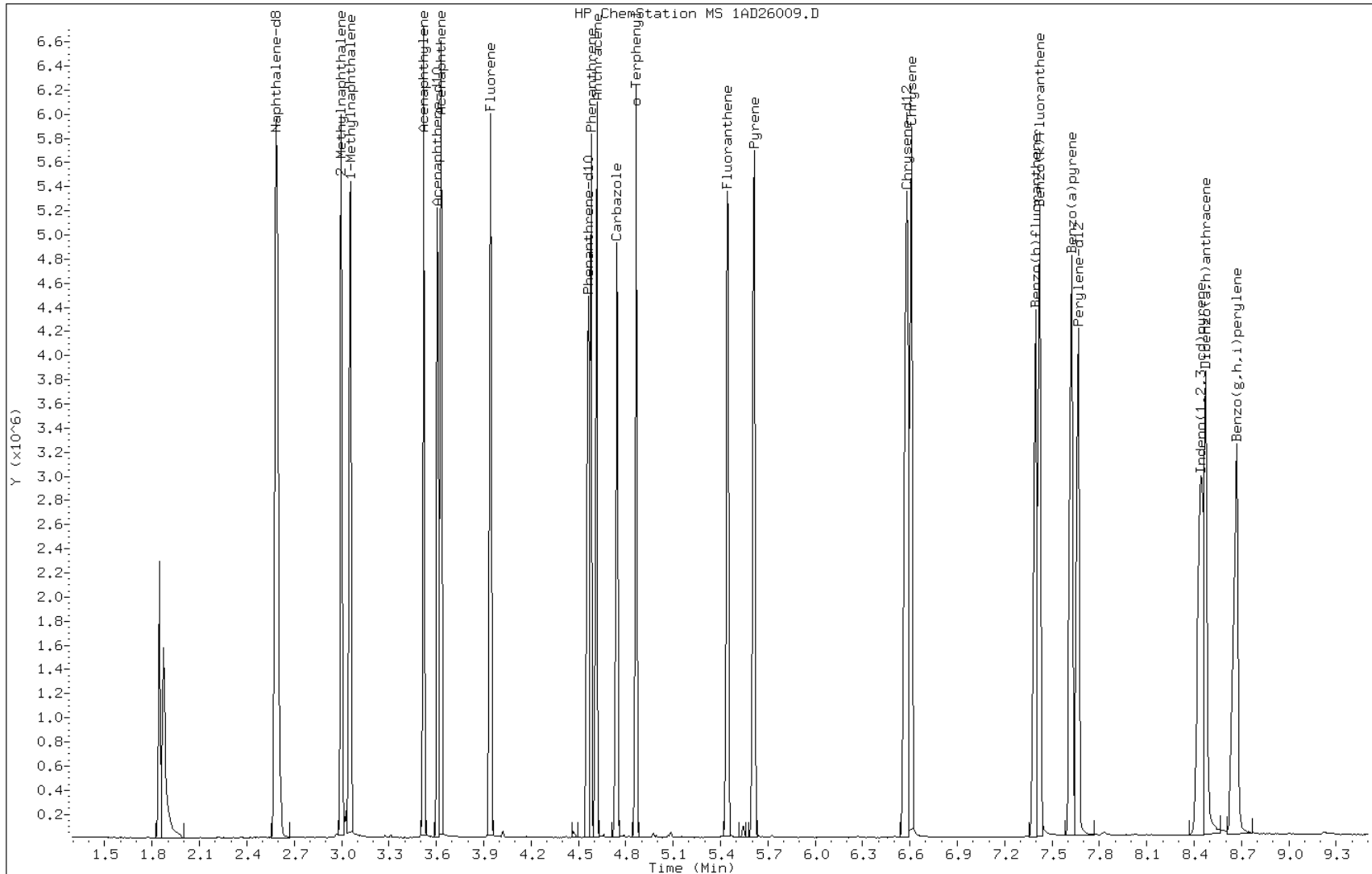
Date: 26-APR-2013 11:34

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1531403

Operator: SCC

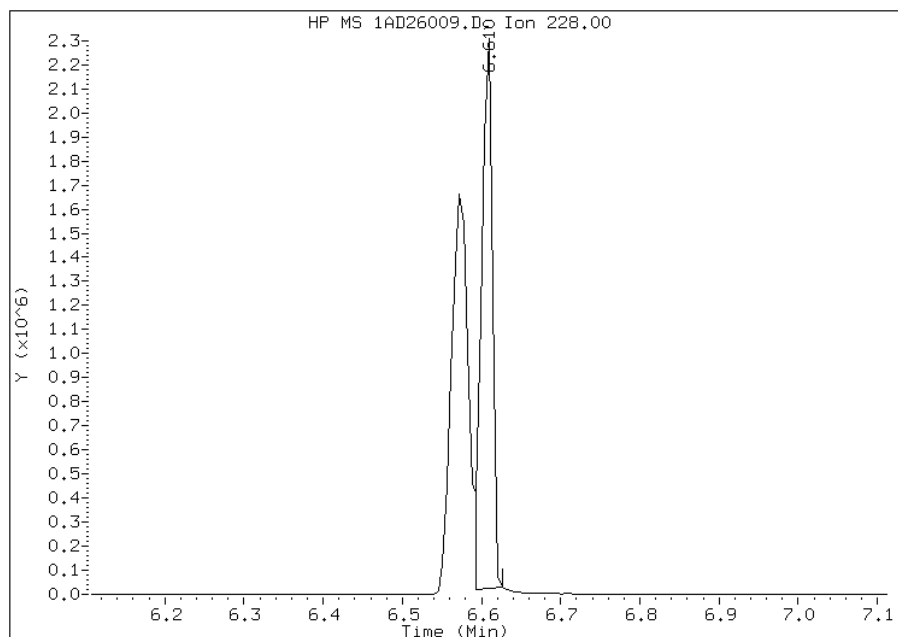


Manual Integration Report

Data File: 1AD26009.D
Inj. Date and Time: 26-APR-2013 11:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 04/26/2013

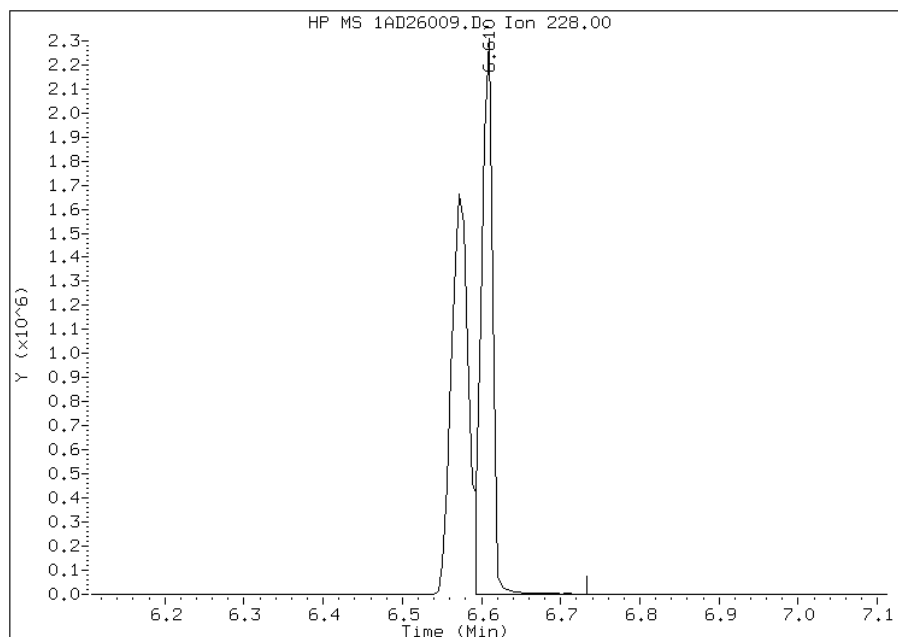
Processing Integration Results

RT: 6.61
Response: 2123056
Amount: 42
Conc: 42



Manual Integration Results

RT: 6.61
Response: 2209729
Amount: 43
Conc: 43



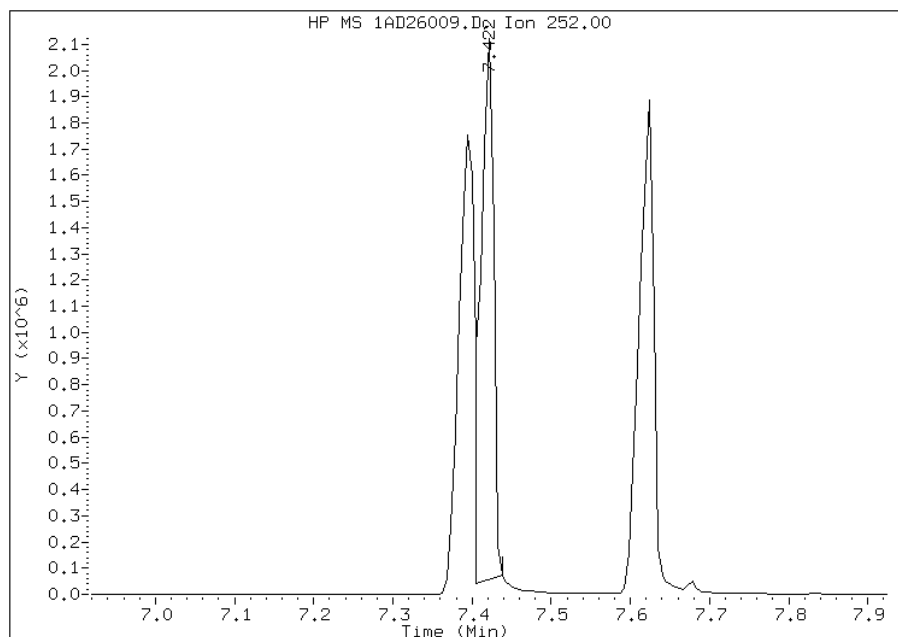
Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:55
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD26009.D
Inj. Date and Time: 26-APR-2013 11:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 04/26/2013

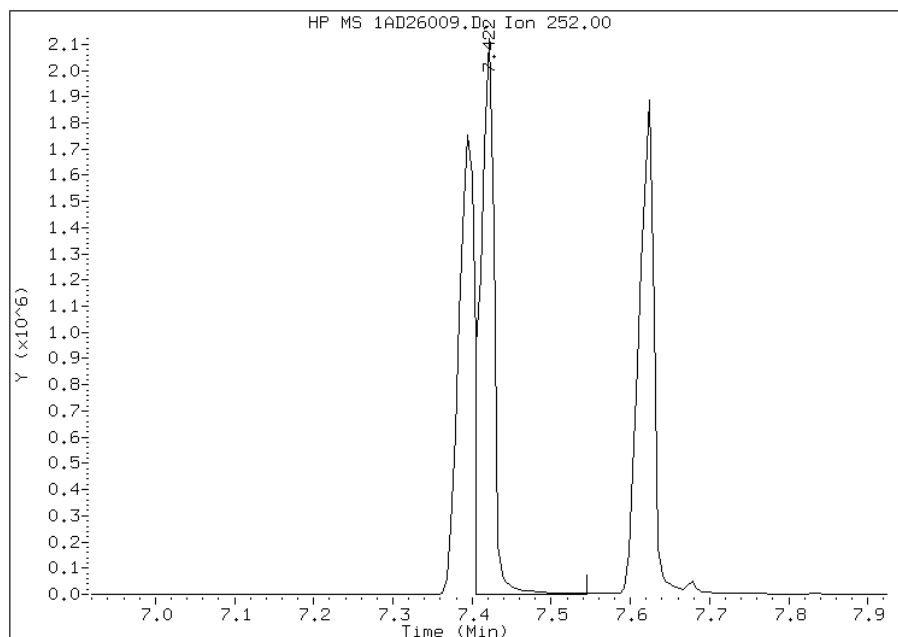
Processing Integration Results

RT: 7.42
Response: 2323626
Amount: 39
Conc: 39



Manual Integration Results

RT: 7.42
Response: 2519945
Amount: 41
Conc: 41



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 12:55
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Lab Sample ID: ICV 660-136892/10 Calibration Date: 04/26/2013 11:49
 Instrument ID: BSMA5973 Calib Start Date: 04/26/2013 10:03
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/26/2013 11:34
 Lab File ID: 1AD26010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.000	1.013	0.0000	20300	20000	1.3	35.0
2-Methylnaphthalene	Ave	0.5733	0.5866	0.0000	20500	20000	2.3	35.0
1-Methylnaphthalene	Ave	0.6351	0.6716	0.0000	21100	20000	5.7	35.0
Acenaphthylene	Ave	2.338	2.056	0.0000	17600	20000	-12.0	35.0
Acenaphthene	Ave	1.226	1.124	0.0000	18300	20000	-8.3	35.0
Fluorene	Ave	1.475	1.361	0.0000	18500	20000	-7.7	35.0
Phenanthrene	Ave	1.159	1.010	0.0000	17400	20000	-12.8	35.0
Anthracene	Ave	1.205	1.090	0.0000	18100	20000	-9.5	35.0
Carbazole	Ave	1.162	0.9708	0.0000	16700	20000	-16.5	35.0
Fluoranthene	Ave	1.338	1.312	0.0000	19600	20000	-1.9	35.0
Pyrene	Ave	1.526	1.466	0.0000	19200	20000	-4.0	35.0
Benzo[a]anthracene	Ave	1.306	1.270	0.0000	19400	20000	-2.8	35.0
Chrysene	Ave	1.325	1.145	0.0000	17300	20000	-13.6	35.0
Benzo[b]fluoranthene	Ave	1.214	1.285	0.0000	21200	20000	5.8	35.0
Benzo[k]fluoranthene	Ave	1.396	1.175	0.0000	16800	20000	-15.8	35.0
Benzo[a]pyrene	Ave	1.208	1.102	0.0000	18200	20000	-8.8	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.141	1.134	0.0000	19900	20000	-0.6	35.0
Dibenz(a,h)anthracene	Ave	1.061	1.182	0.0000	22300	20000	11.3	35.0
Benzo[g,h,i]perylene	Ave	1.277	1.224	0.0000	19200	20000	-4.1	35.0
o-Terphenyl	Ave	0.6543	0.5935	0.0000	18100	20000	-9.3	35.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26010.D
 Lab Smp Id: ICV-1448440
 Inj Date : 26-APR-2013 11:49
 Operator : SCC
 Smp Info : ICV-1448440
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-bFASTPAHi-m.m
 Meth Date : 26-Apr-2013 13:03 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 10 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

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

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

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.581	2.581 (1.000)	2252499	40.0000				
* 6 Acenaphthene-d10	164	3.612	3.606 (1.000)	1126401	40.0000				
* 10 Phenanthrene-d10	188	4.563	4.563 (1.000)	2015970	40.0000				
\$ 14 o-Terphenyl	230	4.863	4.862 (1.066)	598212	18.1419		18.1418		
* 18 Chrysene-d12	240	6.583	6.582 (1.000)	1842442	40.0000				
* 23 Perylene-d12	264	7.667	7.666 (1.000)	2029776	40.0000				
2 Naphthalene	128	2.592	2.591 (1.004)	1140891	20.2617		20.2616		
3 2-Methylnaphthalene	141	2.998	2.997 (1.161)	660618	20.4636		20.4636		
4 1-Methylnaphthalene	142	3.052	3.051 (1.182)	756416	21.1488		21.1487		
5 Acenaphthylene	152	3.522	3.521 (0.975)	1158011	17.5909		17.5909		
7 Acenaphthene	154	3.629	3.628 (1.004)	633033	18.3366		18.3366		
9 Fluorene	166	3.944	3.943 (1.092)	766644	18.4575		18.4574		
11 Phenanthrene	178	4.579	4.579 (1.004)	1018538	17.4411		17.4411		
12 Anthracene	178	4.611	4.611 (1.011)	1099004	18.0989		18.0989		
13 Carbazole	167	4.734	4.739 (1.037)	978595	16.7058		16.7058(M)		
15 Fluoranthene	202	5.439	5.439 (1.192)	1322879	19.6122		19.6122		
16 Pyrene	202	5.605	5.604 (0.851)	1350229	19.2093		19.2092		

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====		=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228		6.572	6.566	(0.998)	1170041	19.4460	19.4459
19 Chrysene	228		6.604	6.598	(1.003)	1054888	17.2812	17.2812
20 Benzo(b)fluoranthene	252		7.389	7.389	(0.964)	1303989	21.1608	21.1608
21 Benzo(k)fluoranthene	252		7.411	7.410	(0.967)	1192511	16.8313	16.8313
22 Benzo(a)pyrene	252		7.614	7.613	(0.993)	1118521	18.2457	18.2456
24 Indeno(1,2,3-cd)pyrene	276		8.426	8.430	(1.099)	1150730	19.8802	19.8802
25 Dibenzo(a,h)anthracene	278		8.458	8.457	(1.103)	1199380	22.2696	22.2695
26 Benzo(g,h,i)perylene	276		8.650	8.654	(1.128)	1241990	19.1718	19.1717

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AD26010.D

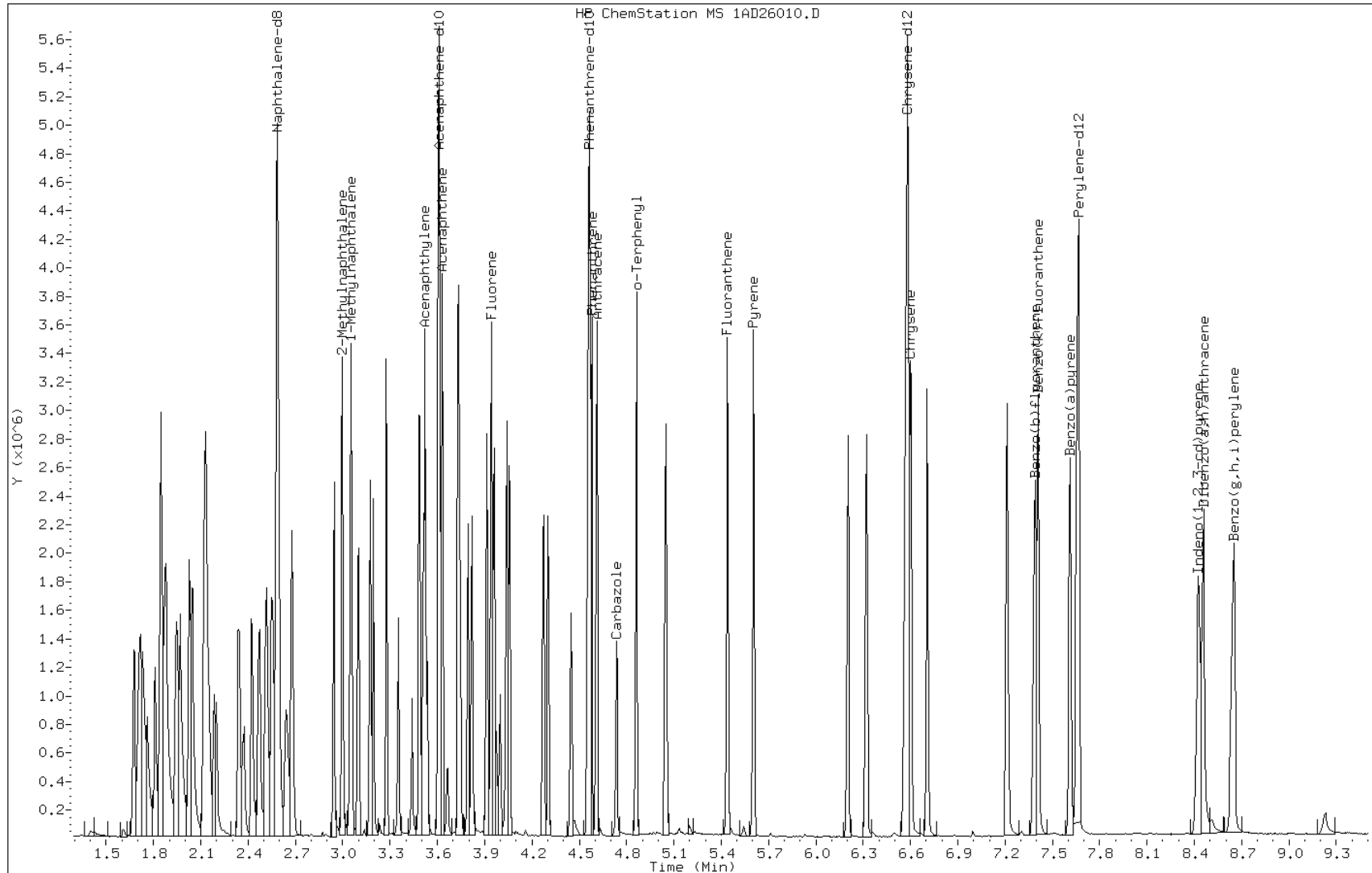
Date: 26-APR-2013 11:49

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1448440

Operator: SCC

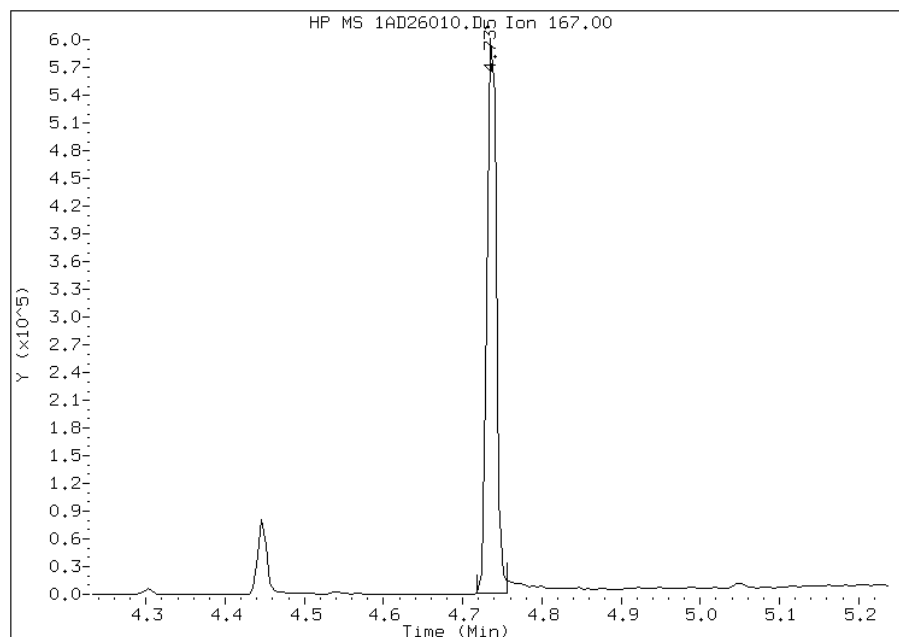


Manual Integration Report

Data File: 1AD26010.D
Inj. Date and Time: 26-APR-2013 11:49
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 04/26/2013

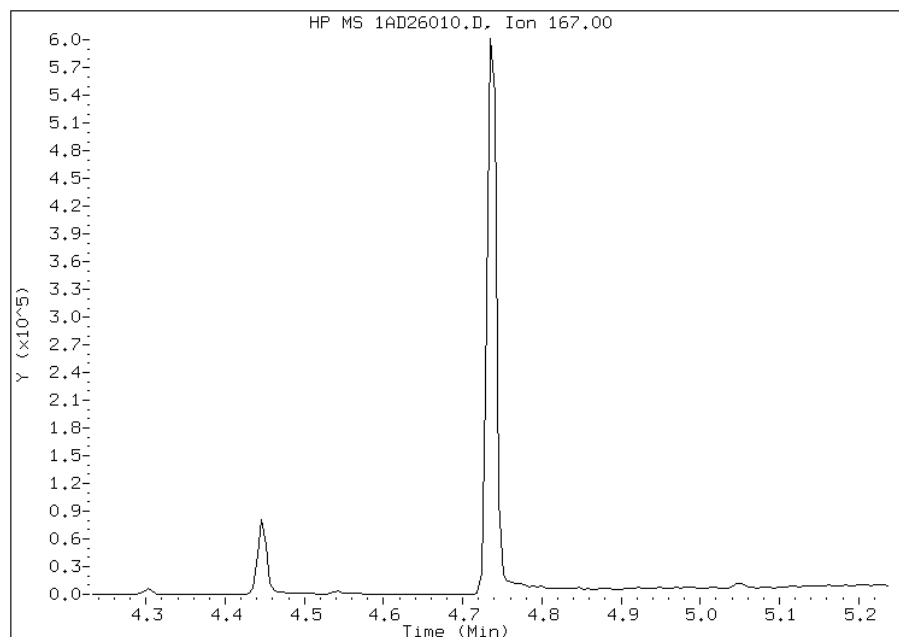
Processing Integration Results

RT: 4.73
Response: 486883
Amount: 8
Conc: 8



Manual Integration Results

RT: 4.73
Response: 978595
Amount: 17
Conc: 17



Manually Integrated By: cantins
Modification Date: 26-Apr-2013 13:06
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Lab Sample ID: CCVIS 660-136961/3 Calibration Date: 04/29/2013 12:29
 Instrument ID: BSMA5973 Calib Start Date: 04/26/2013 10:03
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/26/2013 11:34
 Lab File ID: 1AD29003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.000	0.999	0.0000	20000	20000	-0.1	20.0
2-Methylnaphthalene	Ave	0.5733	0.5755	0.0000	20100	20000	0.4	20.0
1-Methylnaphthalene	Ave	0.6351	0.6428	0.0000	20200	20000	1.2	20.0
Acenaphthylene	Ave	2.338	2.176	0.0000	18600	20000	-6.9	20.0
Acenaphthene	Ave	1.226	1.122	0.0000	18300	20000	-8.5	20.0
Fluorene	Ave	1.475	1.387	0.0000	18800	20000	-6.0	20.0
Phenanthrene	Ave	1.159	1.037	0.0000	17900	20000	-10.5	20.0
Anthracene	Ave	1.205	1.115	0.0000	18500	20000	-7.5	20.0
Carbazole	Ave	1.162	1.055	0.0000	18200	20000	-9.2	20.0
Fluoranthene	Ave	1.338	1.323	0.0000	19800	20000	-1.2	20.0
Pyrene	Ave	1.526	1.483	0.0000	19400	20000	-2.8	20.0
Benzo[a]anthracene	Ave	1.306	1.265	0.0000	19400	20000	-3.2	20.0
Chrysene	Ave	1.325	1.188	0.0000	17900	20000	-10.3	20.0
Benzo[b]fluoranthene	Ave	1.214	1.255	0.0000	20700	20000	3.4	20.0
Benzo[k]fluoranthene	Ave	1.396	1.306	0.0000	18700	20000	-6.5	20.0
Benzo[a]pyrene	Ave	1.208	1.229	0.0000	20300	20000	1.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.141	1.200	0.0000	21000	20000	5.2	20.0
Dibenz(a,h)anthracene	Ave	1.061	1.060	0.0000	20000	20000	-0.0	20.0
Benzo[g,h,i]perylene	Ave	1.277	1.177	0.0000	18400	20000	-7.8	20.0
o-Terphenyl	Ave	0.6543	0.6119	0.0000	18700	20000	-6.5	20.0

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29003.D
 Lab Smp Id: CCVIS-1531401
 Inj Date : 29-APR-2013 12:29
 Operator : SCC
 Smp Info : CCVIS-1531401
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\A-BFASTPAHi-m.m
 Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.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)
* 1 Naphthalene-d8	136	2.572	2.572	(1.000)	1768522	40.0000	
* 6 Acenaphthene-d10	164	3.603	3.603	(1.000)	946168	40.0000	
* 10 Phenanthrene-d10	188	4.554	4.554	(1.000)	1657570	40.0000	
\$ 14 o-Terphenyl	230	4.859	4.859	(1.067)	507167	20.0000	18.7064
* 18 Chrysene-d12	240	6.574	6.574	(1.000)	1550259	40.0000	
* 23 Perylene-d12	264	7.663	7.663	(1.000)	1599138	40.0000	
2 Naphthalene	128	2.583	2.583	(1.004)	883295	20.0000	19.9797
3 2-Methylnaphthalene	141	2.989	2.989	(1.162)	508925	20.0000	20.0789
4 1-Methylnaphthalene	142	3.048	3.048	(1.185)	568400	20.0000	20.2410
5 Acenaphthylene	152	3.513	3.513	(0.975)	1029446	20.0000	18.6167
7 Acenaphthene	154	3.619	3.619	(1.004)	530772	20.0000	18.3031
9 Fluorene	166	3.935	3.935	(1.092)	656242	20.0000	18.8090
11 Phenanthrene	178	4.570	4.570	(1.004)	859379	20.0000	17.8975
12 Anthracene	178	4.608	4.608	(1.012)	924140	20.0000	18.5098
13 Carbazole	167	4.736	4.736	(1.040)	874765	20.0000	18.1621
15 Fluoranthene	202	5.436	5.436	(1.194)	1096296	20.0000	19.7672
16 Pyrene	202	5.601	5.601	(0.852)	1149589	20.0000	19.4372
17 Benzo(a)anthracene	228	6.563	6.563	(0.998)	980516	20.0000	19.3674
19 Chrysene	228	6.595	6.595	(1.003)	920999	20.0000	17.9315
20 Benzo(b)fluoranthene	252	7.380	7.380	(0.963)	1003545	20.0000	20.6708
21 Benzo(k)fluoranthene	252	7.407	7.407	(0.967)	1043852	20.0000	18.7006
22 Benzo(a)pyrene	252	7.610	7.610	(0.993)	982577	20.0000	20.3443
24 Indeno(1,2,3-cd)pyrene	276	8.427	8.427	(1.100)	959722	20.0000	21.0453
25 Dibenzo(a,h)anthracene	278	8.454	8.454	(1.103)	847874	20.0000	19.9824
26 Benzo(g,h,i)perylene	276	8.646	8.646	(1.128)	940762	20.0000	18.4325

Data File: 1AD29003.D

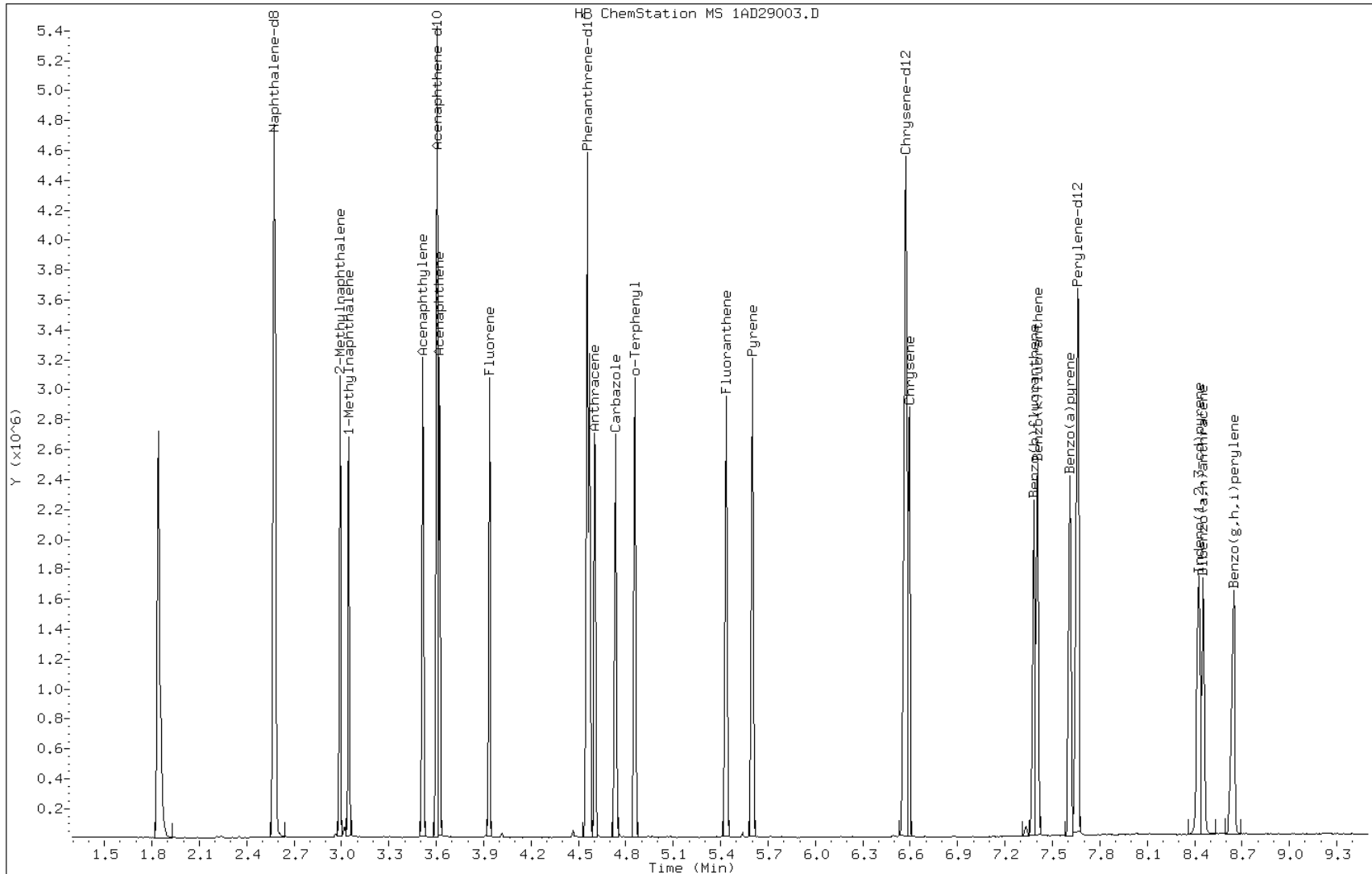
Date: 29-APR-2013 12:29

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1531401

Operator: SCC



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Lab Sample ID: CCVIS 660-137001/7 Calibration Date: 05/01/2013 14:15
 Instrument ID: BSMA5973 Calib Start Date: 04/26/2013 10:03
 GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 04/26/2013 11:34
 Lab File ID: 1AE01006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.000	0.9460	0.0000	18900	20000	-5.4	20.0
2-Methylnaphthalene	Ave	0.5733	0.5291	0.0000	18500	20000	-7.7	20.0
1-Methylnaphthalene	Ave	0.6351	0.5928	0.0000	18700	20000	-6.7	20.0
Acenaphthylene	Ave	2.338	2.135	0.0000	18300	20000	-8.7	20.0
Acenaphthene	Ave	1.226	1.057	0.0000	17200	20000	-13.8	20.0
Fluorene	Ave	1.475	1.338	0.0000	18100	20000	-9.3	20.0
Phenanthrene	Ave	1.159	1.014	0.0000	17500	20000	-12.5	20.0
Anthracene	Ave	1.205	1.093	0.0000	18100	20000	-9.3	20.0
Carbazole	Ave	1.162	1.024	0.0000	17600	20000	-11.9	20.0
Fluoranthene	Ave	1.338	1.252	0.0000	18700	20000	-6.4	20.0
Pyrene	Ave	1.526	1.448	0.0000	19000	20000	-5.1	20.0
Benzo[a]anthracene	Ave	1.306	1.205	0.0000	18400	20000	-7.8	20.0
Chrysene	Ave	1.325	1.181	0.0000	17800	20000	-10.9	20.0
Benzo[b]fluoranthene	Ave	1.214	1.314	0.0000	21600	20000	8.2	20.0
Benzo[k]fluoranthene	Ave	1.396	1.217	0.0000	17400	20000	-12.8	20.0
Benzo[a]pyrene	Ave	1.208	1.192	0.0000	19700	20000	-1.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.141	1.219	0.0000	21400	20000	6.9	20.0
Dibenz(a,h)anthracene	Ave	1.061	1.035	0.0000	19500	20000	-2.5	20.0
Benzo[g,h,i]perylene	Ave	1.277	1.129	0.0000	17700	20000	-11.5	20.0
o-Terphenyl	Ave	0.6543	0.5915	0.0000	18100	20000	-9.6	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01006.D
 Lab Smp Id: CCVIS-1531401
 Inj Date : 01-MAY-2013 14:15
 Operator : SCC
 Smp Info : CCVIS-1531401
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.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					ON-COL
			MASS	RT	EXP RT	REL RT	RESPONSE	
* 1 Naphthalene-d8	136		2.563	2.563	(1.000)	1809348	40.0000	
* 6 Acenaphthene-d10	164		3.594	3.594	(1.000)	901124	40.0000	
* 10 Phenanthrene-d10	188		4.544	4.544	(1.000)	1564940	40.0000	
\$ 14 o-Terphenyl	230		4.844	4.844	(1.066)	462823	20.0000	18.0812
* 18 Chrysene-d12	240		6.574	6.574	(1.000)	1466966	40.0000	
* 23 Perylene-d12	264		7.659	7.659	(1.000)	1426011	40.0000	
2 Naphthalene	128		2.573	2.573	(1.004)	855861	20.0000	18.9224
3 2-Methylnaphthalene	141		2.979	2.979	(1.163)	478646	20.0000	18.4581
4 1-Methylnaphthalene	142		3.033	3.033	(1.183)	536321	20.0000	18.6677
5 Acenaphthylene	152		3.503	3.503	(0.975)	962160	20.0000	18.2697
7 Acenaphthene	154		3.610	3.610	(1.004)	476399	20.0000	17.2493
9 Fluorene	166		3.925	3.925	(1.092)	603052	20.0000	18.1485
11 Phenanthrene	178		4.560	4.560	(1.004)	793286	20.0000	17.4990
12 Anthracene	178		4.593	4.593	(1.011)	855338	20.0000	18.1458
13 Carbazole	167		4.726	4.726	(1.040)	800935	20.0000	17.6136
15 Fluoranthene	202		5.426	5.426	(1.194)	980035	20.0000	18.7169
16 Pyrene	202		5.592	5.592	(0.851)	1062006	20.0000	18.9759
17 Benzo(a)anthracene	228		6.558	6.558	(0.998)	883761	20.0000	18.4475
19 Chrysene	228		6.590	6.590	(1.002)	866381	20.0000	17.8258
20 Benzo(b)fluoranthene	252		7.381	7.381	(0.964)	936701	20.0000	21.6363
21 Benzo(k)fluoranthene	252		7.402	7.402	(0.967)	867670	20.0000	17.4315
22 Benzo(a)pyrene	252		7.605	7.605	(0.993)	850039	20.0000	19.7369
24 Indeno(1,2,3-cd)pyrene	276		8.423	8.423	(1.100)	869101	20.0000	21.3719
25 Dibenzo(a,h)anthracene	278		8.450	8.450	(1.103)	738140	20.0000	19.5082
26 Benzo(g,h,i)perylene	276		8.642	8.642	(1.128)	805187	20.0000	17.6915

Data File: 1AE01006.D

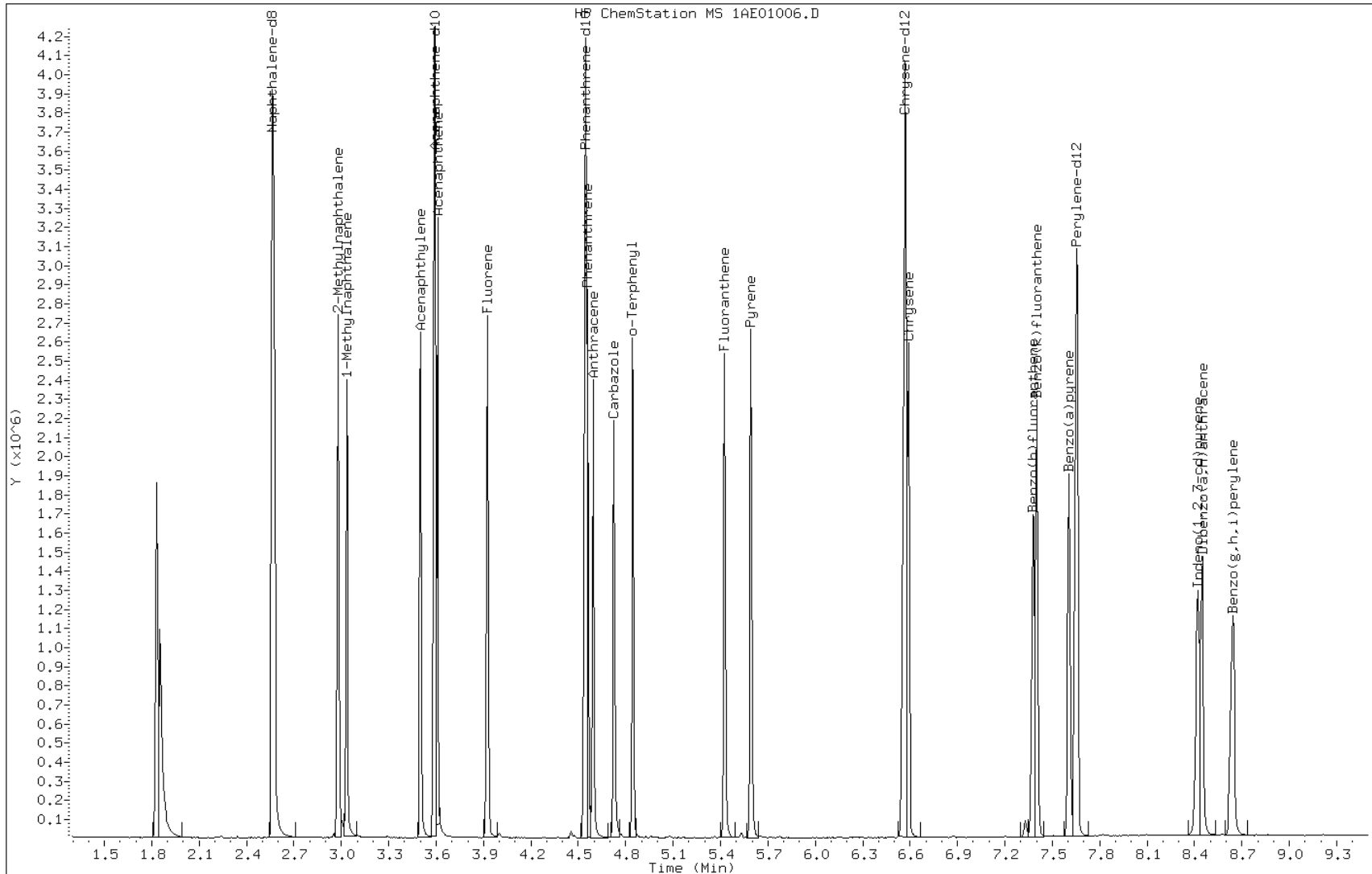
Date: 01-MAY-2013 14:15

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1531401

Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\1AD26002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 26-APR-2013 09:50
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : DFTPP-1525851
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613.b\a-dftpp198.m
 Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
4.935	4.963	-0.028	198	121536			50.00-	0.00	100.00
4.935	4.963	-0.028	51	38720			10.00-	80.00	31.86
4.935	4.963	-0.028	68	0	0.0	0.0	0.00-	2.00	0.00
4.935	4.963	-0.028	69	36384			0.00-	0.00	29.94
4.935	4.963	-0.028	70	323			0.00-	2.00	0.89
4.935	4.963	-0.028	127	46488			10.00-	80.00	38.25
4.935	4.963	-0.028	197	0	0.0	0.0	0.00-	2.00	0.00
4.935	4.963	-0.028	442	102376			50.00-	0.00	84.24
4.935	4.963	-0.028	199	6667			5.00-	9.00	5.49
4.935	4.963	-0.028	275	30992			10.00-	60.00	25.50
4.935	4.963	-0.028	365	3993			1.00-	0.00	3.29
4.935	4.963	-0.028	441	14043			0.01-	99.99	74.57
4.935	4.963	-0.028	443	18832			15.00-	24.00	18.39

Data File: 1AD26002.D

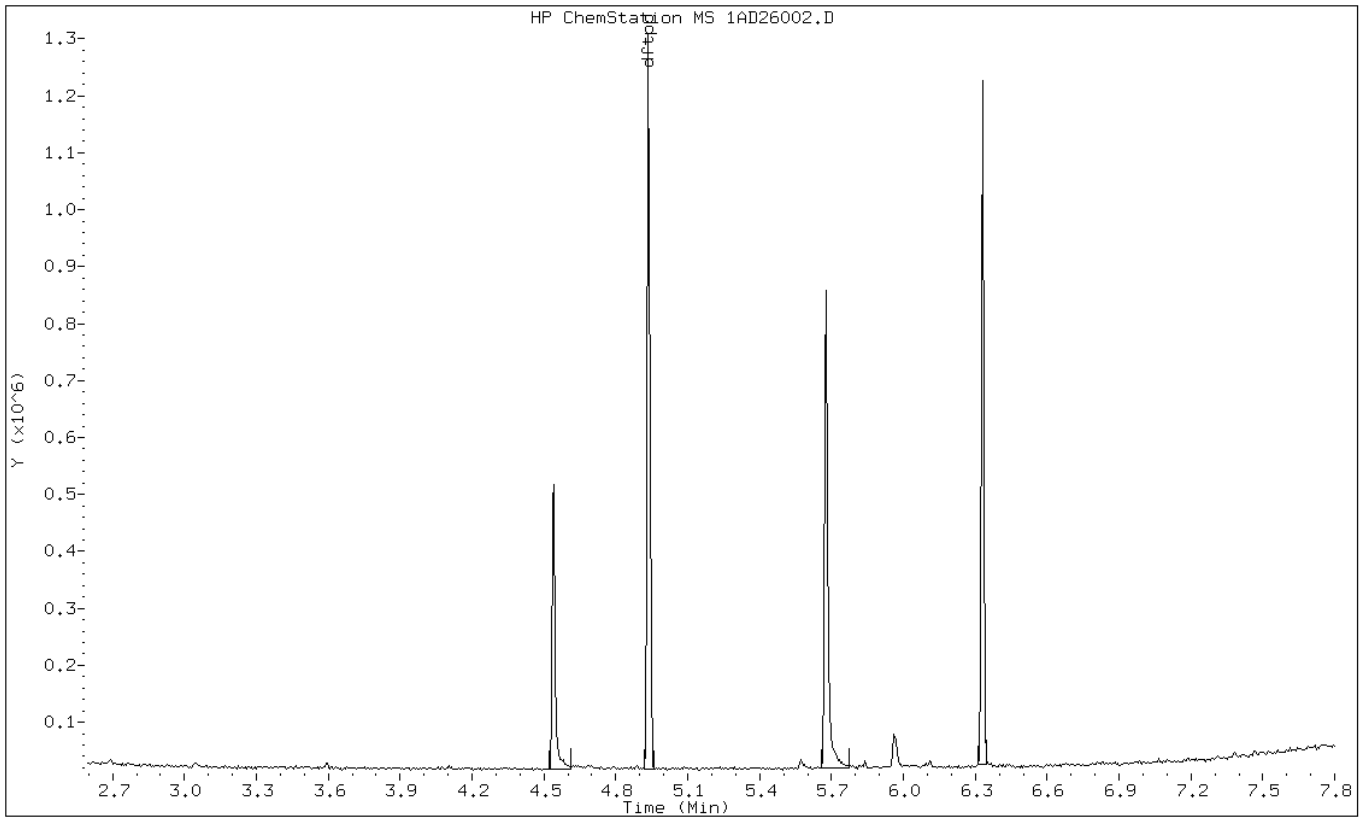
Date: 26-APR-2013 09:50

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



Data File: 1AD26002.D

Date: 26-APR-2013 09:50

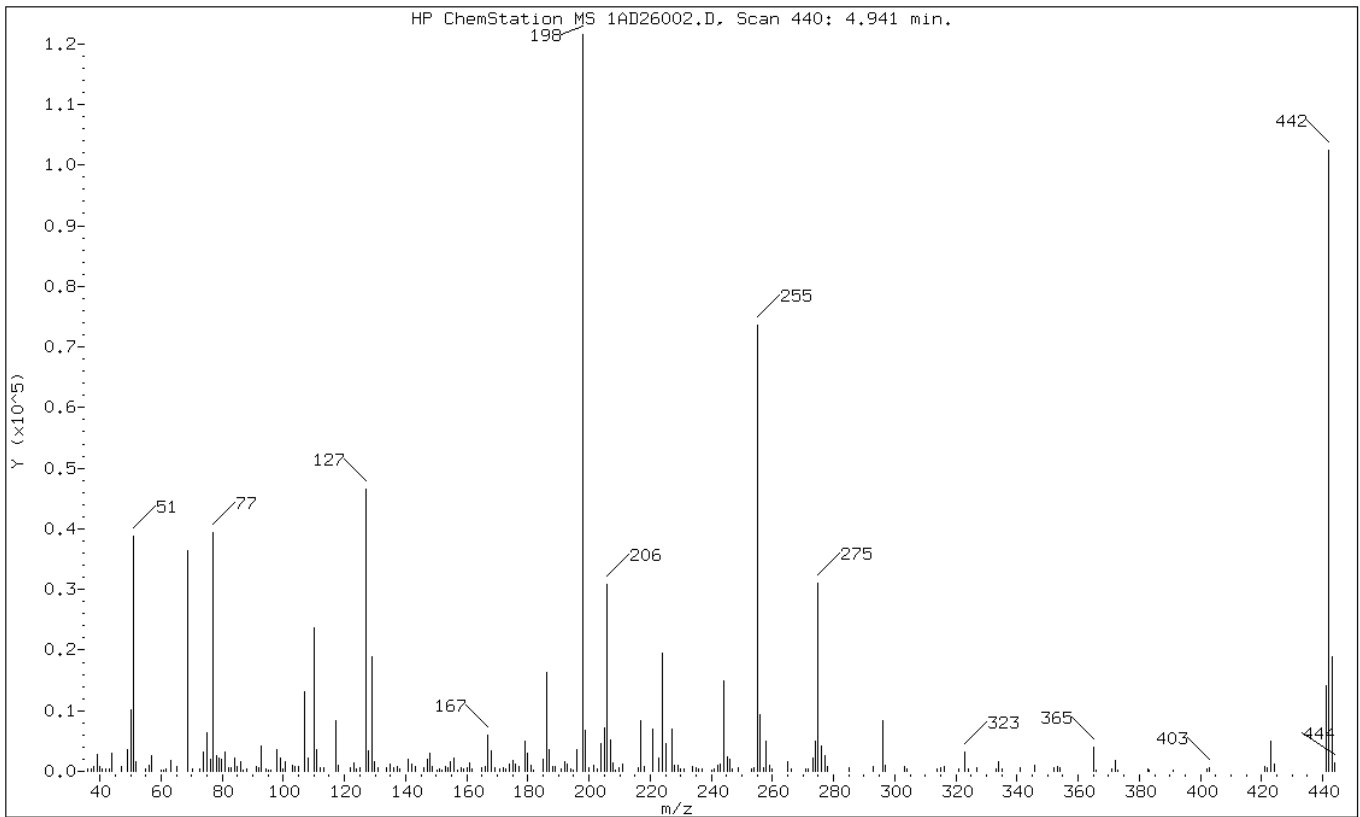
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.86
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	29.94
70	Less than 2.00% of mass 69	0.27 (0.89)
127	10.00 - 80.00% of mass 198	38.25
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	84.24
199	5.00 - 9.00% of mass 198	5.49
275	10.00 - 60.00% of mass 198	25.50
365	Greater than 1.00% of mass 198	3.29
441	Present, but less than mass 443	11.55
443	15.00 - 24.00% of mass 442	15.49 (18.39)

Data File: 1AD26002.D

Date: 26-APR-2013 09:50

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A042613_IC.b\1AD26002.D

Spectrum: HP ChemStation MS 1AD26002.D, Scan 440: 4.941 min.

Location of Maximum: 197.90

Number of points: 218

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	318	109.90	23624	181.90	258	257.90	4917
37.10	304	110.90	3528	185.00	1943	258.90	978
38.00	772	112.00	696	186.00	16384	259.90	303
39.00	2851	113.10	557	187.00	3659	265.00	1578
40.10	716	117.00	8329	188.00	719	266.20	302
40.90	450	117.90	908	188.90	826	270.90	415
42.00	367	122.00	606	190.80	404	271.70	437
43.00	323	123.00	1311	192.00	1546	273.10	2160
44.00	3058	124.00	371	192.90	1214	274.00	5041
46.90	754	125.00	512	194.00	396	275.00	30992
49.00	3565	127.00	46488	194.80	255	275.90	4232
50.00	10138	128.00	3368	195.90	3544	277.00	2575
51.00	38720	128.90	18888	197.90	121536	278.00	834
51.90	1557	129.80	1654	198.90	6667	285.00	690
55.00	474	131.00	544	199.90	619	293.00	822
56.00	1032	133.90	503	201.70	1011	296.00	8395
57.00	2554	135.00	1277	202.90	396	297.00	904
60.00	257	136.00	571	204.00	4575	303.20	722
60.90	289	137.10	702	205.00	7152	303.90	319
61.80	317	138.00	427	206.00	30816	314.00	477
63.10	1724	141.00	2035	207.00	5196	314.90	676
65.00	759	142.00	1118	207.90	1339	316.10	769
68.90	36384	143.00	713	208.70	266	320.80	382
70.10	323	146.10	541	209.90	683	323.00	3132
72.80	315	147.00	1966	211.10	1168	324.00	468
74.00	3176	148.00	2955	216.00	640	327.00	657
75.00	6302	148.90	888	216.90	8402	333.00	481
76.10	1935	150.10	289	217.90	765	334.10	1644
77.00	39448	151.00	322	220.90	7020	335.00	459
78.00	2640	151.90	273	223.00	2251	340.90	509
79.00	2237	152.90	869	224.00	19528	345.90	899
79.90	2049	153.90	672	225.00	4617	351.90	634
80.90	3195	154.80	1546	227.00	6882	352.20	548
82.00	676	156.00	2256	227.90	931	353.10	702
82.90	597	156.90	256	229.00	1037	353.90	642
83.90	2102	158.10	527	229.90	339	365.00	3993
84.90	795	159.00	341	231.10	439	365.90	292
86.10	1590	160.00	680	234.00	698	371.00	314
86.80	277	161.00	1485	235.00	536	372.10	1782
87.90	476	161.90	375	236.00	404	372.80	257

91.10	819	164.80	641	237.10	489	382.80	327
92.10	653	166.00	856	240.00	276	383.30	252
92.90	4252	167.00	5928	241.00	479	391.00	277
94.20	435	168.00	3455	242.00	967	402.10	404
95.00	281	169.10	686	243.00	1175	403.00	649
+-----+							
95.90	273	170.90	352	244.00	14953	421.10	713
98.00	3544	172.00	525	245.10	2429	421.80	629
99.00	2270	172.80	444	246.00	1998	422.90	5030
99.80	420	173.90	1209	246.80	476	424.00	1147
100.80	1642	175.10	1874	248.90	576	441.00	14043
+-----+							
103.00	1034	176.00	1175	253.00	400	442.00	102376
103.90	828	177.00	876	253.90	504	443.00	18832
105.00	864	179.00	4909	255.00	73608	443.90	1450
107.00	13154	179.90	2911	256.00	9434		
108.00	2102	180.90	1012	257.00	624		
+-----+							

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29002.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 29-APR-2013 12:12
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : DFTPP-1525851
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-dftpp198.m
 Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET	RANGE	RATIO
====	=====	=====	====	=====	=====	=====	=====	=====	=====
1 dftpp					CAS #: 5074-71-5				
4.929	4.963	-0.034	198	112096			50.00-	0.00	100.00
4.929	4.963	-0.034	51	45884			10.00-	80.00	40.93
4.929	4.963	-0.034	68	697			0.00-	2.00	1.69
4.929	4.963	-0.034	69	41284			0.00-	0.00	36.83
4.929	4.963	-0.034	70	550			0.00-	2.00	1.33
4.929	4.963	-0.034	127	51604			10.00-	80.00	46.04
4.929	4.963	-0.034	197	0	0.0	0.0	0.00-	2.00	0.00
4.929	4.963	-0.034	442	64612			50.00-	0.00	57.64
4.929	4.963	-0.034	199	7764			5.00-	9.00	6.93
4.929	4.963	-0.034	275	25844			10.00-	60.00	23.06
4.929	4.963	-0.034	365	2991			1.00-	0.00	2.67
4.929	4.963	-0.034	441	10114			0.01-	99.99	81.33
4.929	4.963	-0.034	443	12435			15.00-	24.00	19.25

Data File: 1AD29002.D

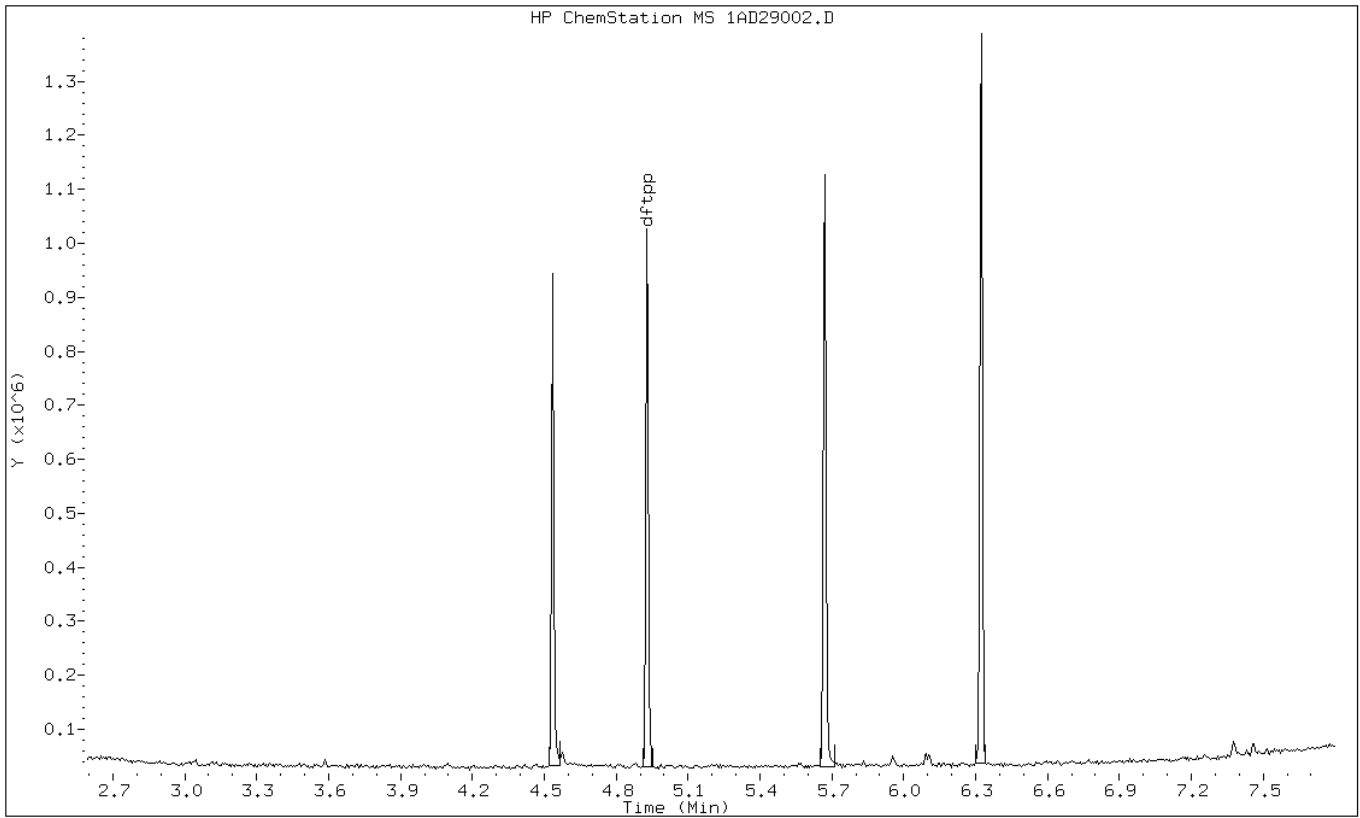
Date: 29-APR-2013 12:12

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



Data File: 1AD29002.D

Date: 29-APR-2013 12:12

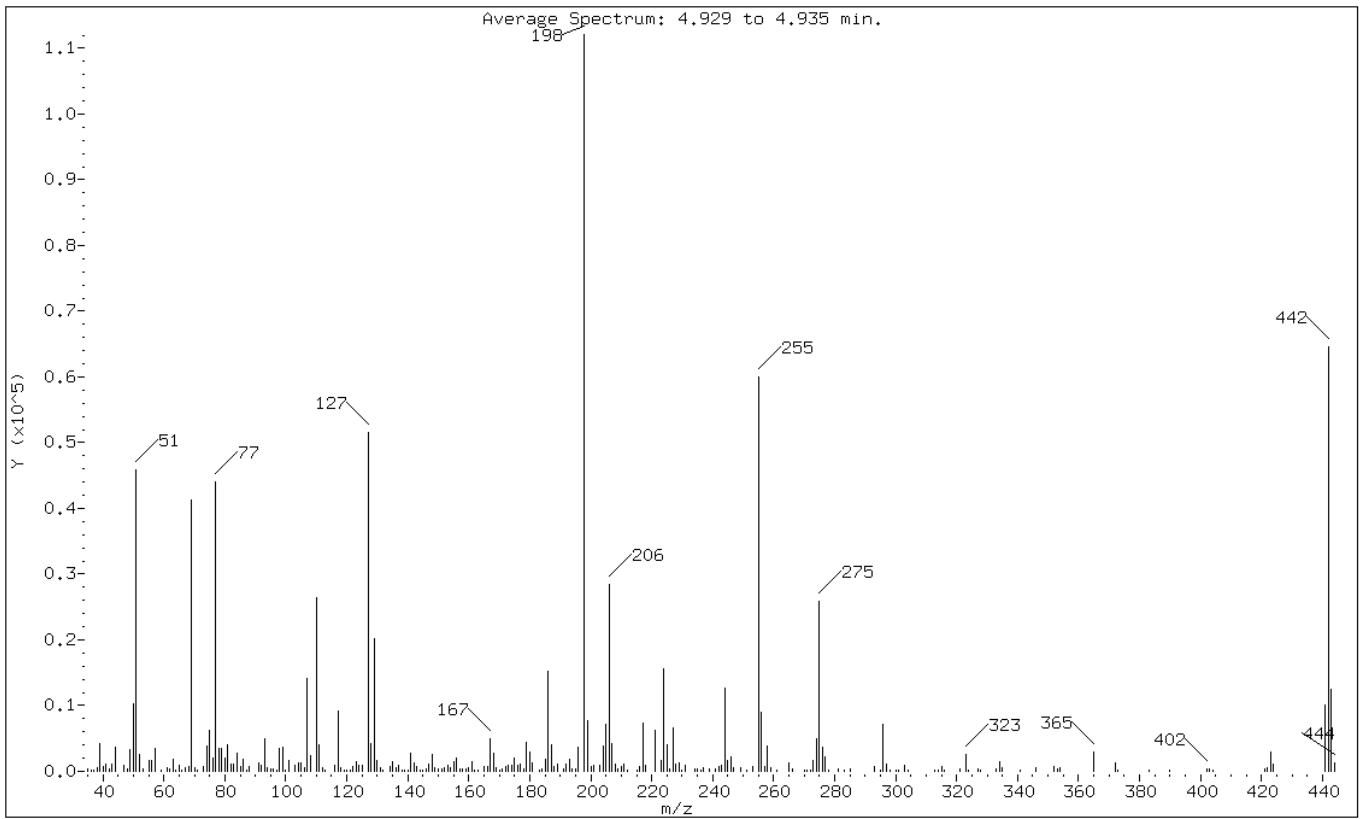
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

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	40.93
68	Less than 2.00% of mass 69	0.62 (1.69)
69	Mass 69 relative abundance	36.83
70	Less than 2.00% of mass 69	0.49 (1.33)
127	10.00 - 80.00% of mass 198	46.04
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	57.64
199	5.00 - 9.00% of mass 198	6.93
275	10.00 - 60.00% of mass 198	23.06
365	Greater than 1.00% of mass 198	2.67
441	Present, but less than mass 443	9.02
443	15.00 - 24.00% of mass 442	11.09 (19.25)

Data File: 1AD29002.D

Date: 29-APR-2013 12:12

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29002.D

Spectrum: Average Spectrum: 4.929 to 4.935 min.

Location of Maximum: 198.00

Number of points: 250

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	354	107.00	14189	176.00	890	256.00	9038
36.00	142	108.00	2389	177.00	1082	257.00	722
37.00	175	110.00	26344	178.00	448	258.00	3893
38.00	492	111.00	3957	179.00	4450	259.00	581
39.00	4307	112.00	522	180.00	2952	261.00	177
40.00	658	113.00	149	181.00	1249	265.00	1277
41.00	1166	116.00	874	183.00	171	266.00	441
42.00	436	117.00	9173	184.00	391	270.00	150
43.00	1145	118.00	638	185.00	1747	271.00	140
44.00	3616	119.00	162	186.00	15241	272.00	165
47.00	835	120.00	194	187.00	3979	273.00	1576
48.00	306	121.00	134	188.00	696	274.00	4912
49.00	3355	122.00	737	189.00	1121	275.00	25840
50.00	10277	123.00	1391	191.00	394	276.00	3747
51.00	45880	124.00	925	192.00	1073	277.00	2166
52.00	2552	125.00	876	193.00	1856	278.00	210
53.00	309	127.00	51600	194.00	357	281.00	296
55.00	1586	128.00	4130	195.00	292	283.00	147
56.00	1727	129.00	20120	196.00	3703	285.00	318
57.00	3397	130.00	1696	198.00	112096	293.00	719
59.00	137	131.00	489	199.00	7764	295.00	145
61.00	514	132.00	205	200.00	759	296.00	7158
62.00	450	134.00	800	201.00	861	297.00	1092
63.00	1878	135.00	1438	203.00	935	298.00	139
64.00	208	136.00	526	204.00	3843	300.00	188
65.00	922	137.00	837	205.00	7071	301.00	138
66.00	147	138.00	197	206.00	28512	303.00	981
67.00	485	139.00	154	207.00	4269	304.00	213
68.00	697	140.00	151	208.00	1030	313.00	143
69.00	41280	141.00	2744	209.00	393	314.00	176
70.00	550	142.00	1216	210.00	680	315.00	770
71.00	143	143.00	664	211.00	1070	316.00	142
73.00	788	144.00	261	212.00	131	321.00	299
74.00	3818	145.00	127	215.00	245	323.00	2497
75.00	6319	146.00	438	216.00	659	324.00	205
76.00	2070	147.00	1164	217.00	7422	327.00	387
77.00	44112	148.00	2636	218.00	890	328.00	169
78.00	3428	149.00	630	221.00	6246	333.00	295
79.00	3517	150.00	320	223.00	1730	334.00	1535
80.00	2087	151.00	421	224.00	15531	335.00	483

81.00	4006	152.00	506	225.00	4087	341.00	129
82.00	1058	153.00	986	226.00	388	346.00	566
83.00	1056	154.00	548	227.00	6531	352.00	680
84.00	2750	155.00	1466	228.00	1079	353.00	443
85.00	796	156.00	2087	229.00	1209	354.00	611
86.00	1918	157.00	447	230.00	138	365.00	2991
87.00	266	158.00	434	231.00	850	372.00	1203
88.00	652	159.00	458	234.00	447	373.00	198
91.00	1251	160.00	626	235.00	410	383.00	230
92.00	957	161.00	1449	236.00	230	390.00	125
93.00	4927	162.00	182	237.00	567	402.00	362
94.00	490	163.00	207	239.00	326	403.00	286
95.00	284	165.00	801	241.00	439	404.00	136
96.00	429	166.00	662	242.00	663	421.00	320
97.00	196	167.00	4901	243.00	905	422.00	554
98.00	3431	168.00	2797	244.00	12696	423.00	2986
99.00	3675	169.00	637	245.00	1599	424.00	1020
100.00	191	170.00	267	246.00	2253	441.00	10114
101.00	1720	171.00	321	247.00	492	442.00	64608
103.00	965	172.00	653	249.00	468	443.00	12435
104.00	1235	173.00	844	251.00	219	444.00	1276
105.00	1263	174.00	991	253.00	681		
106.00	510	175.00	2037	255.00	59968		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01005.D
 Lab Smp Id: DFTPP Client Smp ID: DFTPP
 Inj Date : 01-MAY-2013 14:01
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : DFTPP-1525851
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-dftpp198.m
 Meth Date : 04-Apr-2013 10:35 cantins Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 2 QC Sample: DFTPP
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14 Sample Matrix: None
 Processing Host: TAM1000

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	DLT RT	MASS	RESPONSE (ug/L)	(ug/L)	TARGET RANGE	RATIO		
====	=====	=====	====	=====	=====	=====	=====		
1 dftpp					CAS #: 5074-71-5				
4.922	4.963	-0.041	198	76476		50.00- 0.00	100.00		
4.922	4.963	-0.041	51	24373		10.00- 80.00	31.87		
4.922	4.963	-0.041	68	404		0.00- 2.00	1.70		
4.922	4.963	-0.041	69	23698		0.00- 0.00	30.99		
4.922	4.963	-0.041	70	207		0.00- 2.00	0.87		
4.922	4.963	-0.041	127	31075		10.00- 80.00	40.63		
4.922	4.963	-0.041	197	0	0.0	0.00- 2.00	0.00		
4.922	4.963	-0.041	442	70952		50.00- 0.00	92.78		
4.922	4.963	-0.041	199	5134		5.00- 9.00	6.71		
4.922	4.963	-0.041	275	19733		10.00- 60.00	25.80		
4.922	4.963	-0.041	365	2018		1.00- 0.00	2.64		
4.922	4.963	-0.041	441	9091		0.01- 99.99	66.32		
4.922	4.963	-0.041	443	13707		15.00- 24.00	19.32		

Data File: 1AE01005.D

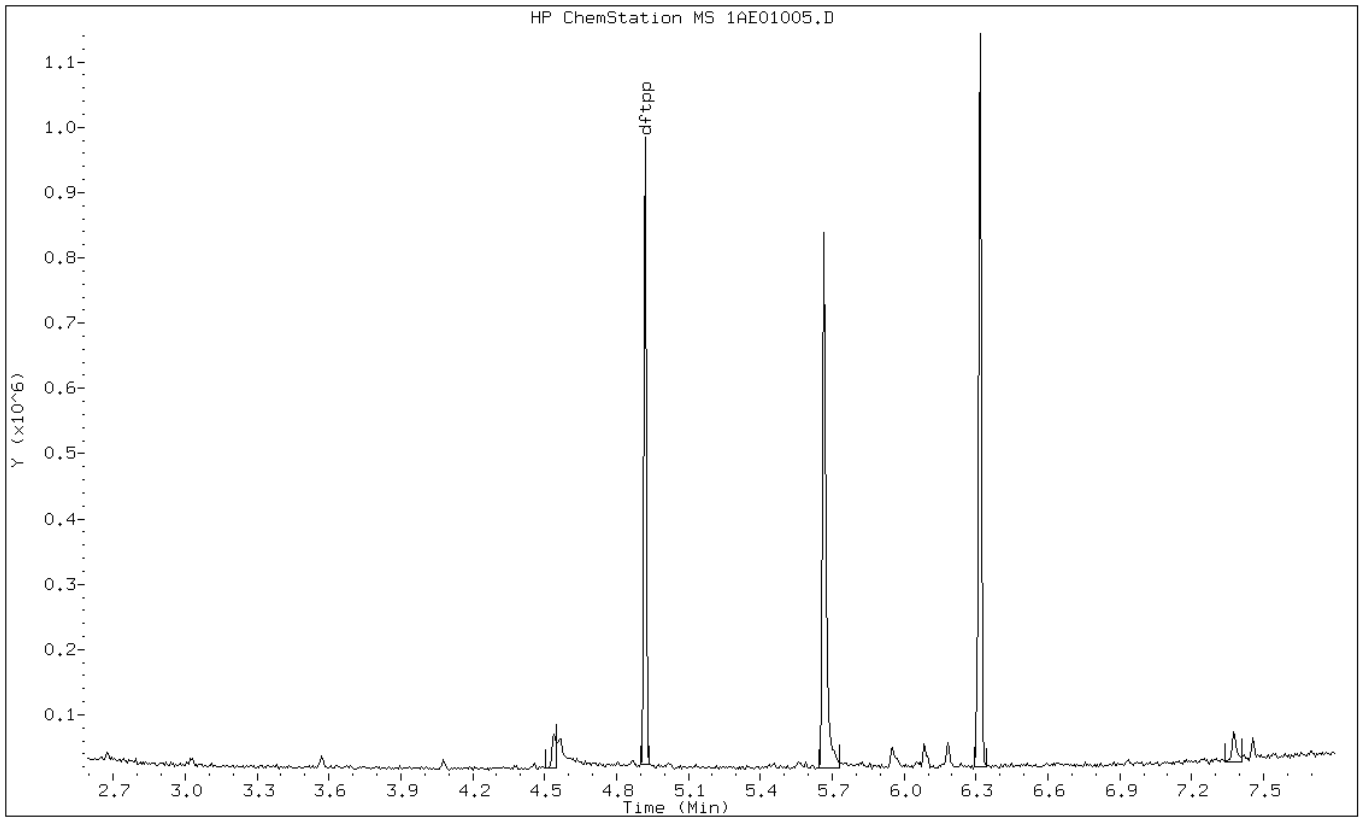
Date: 01-MAY-2013 14:01

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC



Data File: 1AE01005.D

Date: 01-MAY-2013 14:01

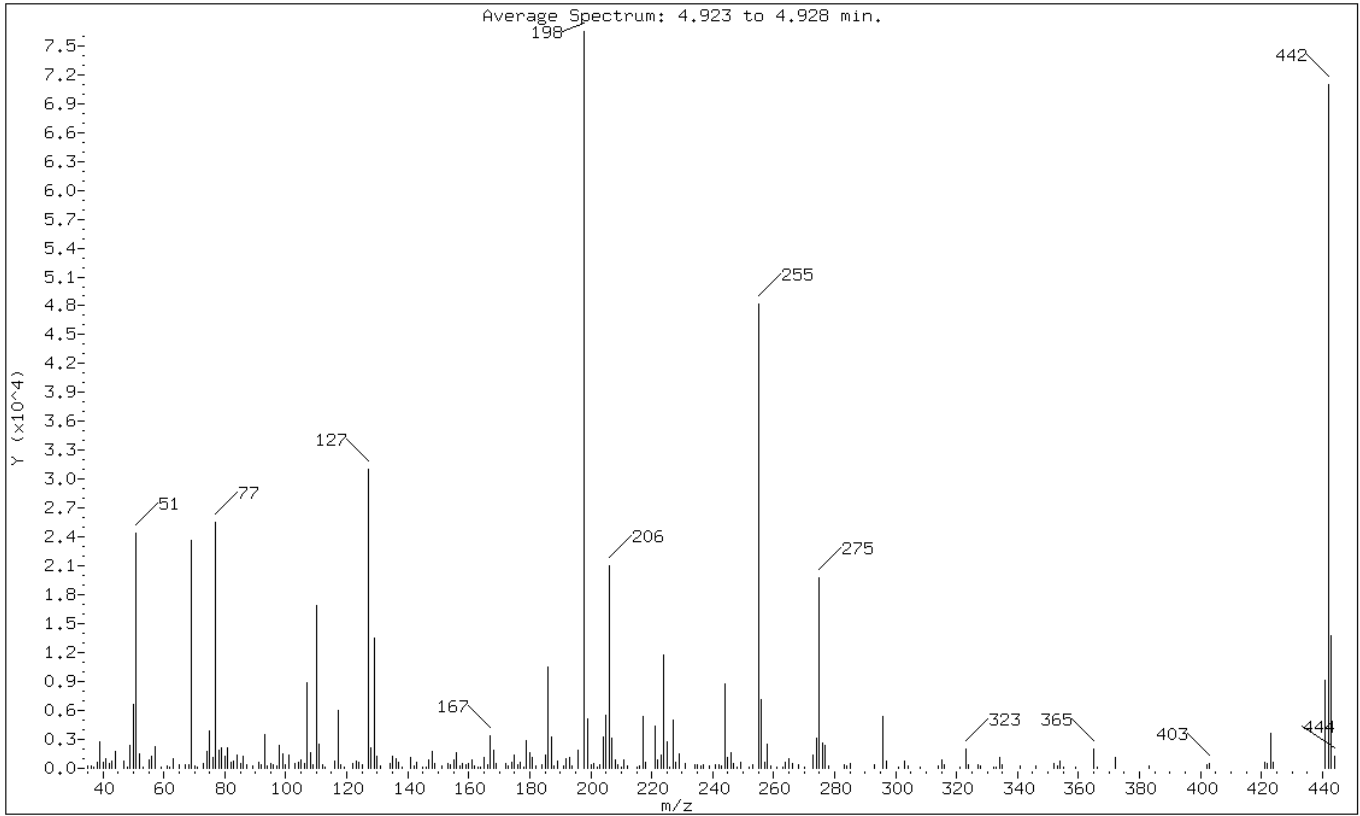
Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.87
68	Less than 2.00% of mass 69	0.53 (1.70)
69	Mass 69 relative abundance	30.99
70	Less than 2.00% of mass 69	0.27 (0.87)
127	10.00 - 80.00% of mass 198	40.63
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	92.78
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	25.80
365	Greater than 1.00% of mass 198	2.64
441	Present, but less than mass 443	11.89
443	15.00 - 24.00% of mass 442	17.92 (19.32)

Data File: 1AE01005.D

Date: 01-MAY-2013 14:01

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1525851

Operator: SCC

Data File: \\tam-chemsrv\chem\SM\BSMA5973.i\1A050113.b\1AE01005.D

Spectrum: Average Spectrum: 4.923 to 4.928 min.

Location of Maximum: 198.00

Number of points: 240

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	215	107.00	8830	182.00	265	259.00	238
36.00	194	108.00	1654	184.00	326	261.00	130
37.00	155	109.00	364	185.00	1326	263.00	183
38.00	634	110.00	16840	186.00	10491	264.00	604
39.00	2719	111.00	2445	187.00	3196	265.00	996
40.00	653	112.00	337	188.00	310	266.00	561
41.00	978	113.00	139	189.00	690	268.00	420
42.00	457	116.00	725	191.00	258	270.00	130
43.00	762	117.00	6007	192.00	1036	273.00	1345
44.00	1714	118.00	313	193.00	1099	274.00	3190
47.00	693	119.00	131	194.00	262	275.00	19728
48.00	130	122.00	505	196.00	1909	276.00	2667
49.00	2351	123.00	771	198.00	76472	277.00	2344
50.00	6614	124.00	594	199.00	5134	278.00	220
51.00	24368	125.00	392	200.00	438	283.00	399
52.00	1510	127.00	31072	201.00	501	284.00	292
53.00	161	128.00	2075	202.00	167	285.00	468
55.00	834	129.00	13455	203.00	374	293.00	314
56.00	1313	130.00	1298	204.00	3210	296.00	5355
57.00	2275	131.00	235	205.00	5474	297.00	755
59.00	140	134.00	487	206.00	21064	301.00	150
61.00	273	135.00	1309	207.00	3085	303.00	741
62.00	134	136.00	980	208.00	832	304.00	310
63.00	1040	137.00	585	209.00	392	308.00	126
65.00	407	138.00	172	210.00	176	314.00	266
67.00	385	141.00	1182	211.00	932	315.00	826
68.00	404	142.00	237	212.00	226	316.00	324
69.00	23696	143.00	592	215.00	172	321.00	131
70.00	207	145.00	181	216.00	274	323.00	2005
71.00	128	146.00	180	217.00	5406	324.00	436
73.00	439	147.00	823	218.00	637	327.00	377
74.00	1776	148.00	1803	221.00	4424	328.00	255
75.00	3912	149.00	461	222.00	865	332.00	143
76.00	1143	151.00	292	223.00	1434	333.00	153
77.00	25512	153.00	496	224.00	11815	334.00	1141
78.00	1845	154.00	399	225.00	2714	335.00	400
79.00	2177	155.00	936	226.00	180	341.00	208
80.00	1244	156.00	1607	227.00	5002	346.00	233
81.00	2112	157.00	307	228.00	684	352.00	442
82.00	630	158.00	459	229.00	1441	353.00	229

83.00	770	159.00	331	231.00	520	354.00	784
84.00	1391	160.00	563	234.00	334	355.00	127
85.00	445	161.00	900	235.00	408	359.00	142
86.00	1275	162.00	270	236.00	188	365.00	2018
87.00	432	163.00	141	237.00	416	366.00	155
89.00	239	164.00	158	239.00	213	372.00	1135
91.00	571	165.00	1160	241.00	327	383.00	195
92.00	355	166.00	316	242.00	428	402.00	423
93.00	3567	167.00	3373	243.00	251	403.00	454
94.00	275	168.00	1914	244.00	8704	421.00	574
95.00	479	169.00	474	245.00	1129	422.00	460
96.00	400	172.00	475	246.00	1625	423.00	3579
97.00	285	173.00	272	247.00	468	424.00	645
98.00	2422	174.00	681	248.00	162	441.00	9091
99.00	1550	175.00	1383	249.00	615	442.00	70952
100.00	316	176.00	421	252.00	163	443.00	13707
101.00	1424	177.00	620	253.00	321	444.00	1299
103.00	542	178.00	158	255.00	48168		
104.00	578	179.00	2829	256.00	7098		
105.00	830	180.00	1586	257.00	607		
106.00	518	181.00	1101	258.00	2511		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: _____ Lab Sample ID: MB 660-136855/1-A
 Matrix: Solid Lab File ID: 1AD29005.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/26/2013 07:28
 Sample wt/vol: 15.03(g) Date Analyzed: 04/29/2013 13:08
 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.: 136961 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	63		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29005.D
 Lab Smp Id: MB 660-136855/1-A
 Inj Date : 29-APR-2013 13:08
 Operator : SCC
 Smp Info : MB 660-136855/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
 Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.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	15.030	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		2.569	2.572	(1.000)	2490016	40.0000	
* 6 Acenaphthene-d10	164		3.606	3.603	(1.000)	1293513	40.0000	
* 10 Phenanthrene-d10	188		4.557	4.554	(1.000)	2244776	40.0000	
\$ 14 o-Terphenyl	230		4.856	4.859	(1.066)	231530	6.30588	419.5530
* 18 Chrysene-d12	240		6.570	6.574	(1.000)	2148223	40.0000	
* 23 Perylene-d12	264		7.660	7.663	(1.000)	2133331	40.0000	

Data File: 1AD29005.D

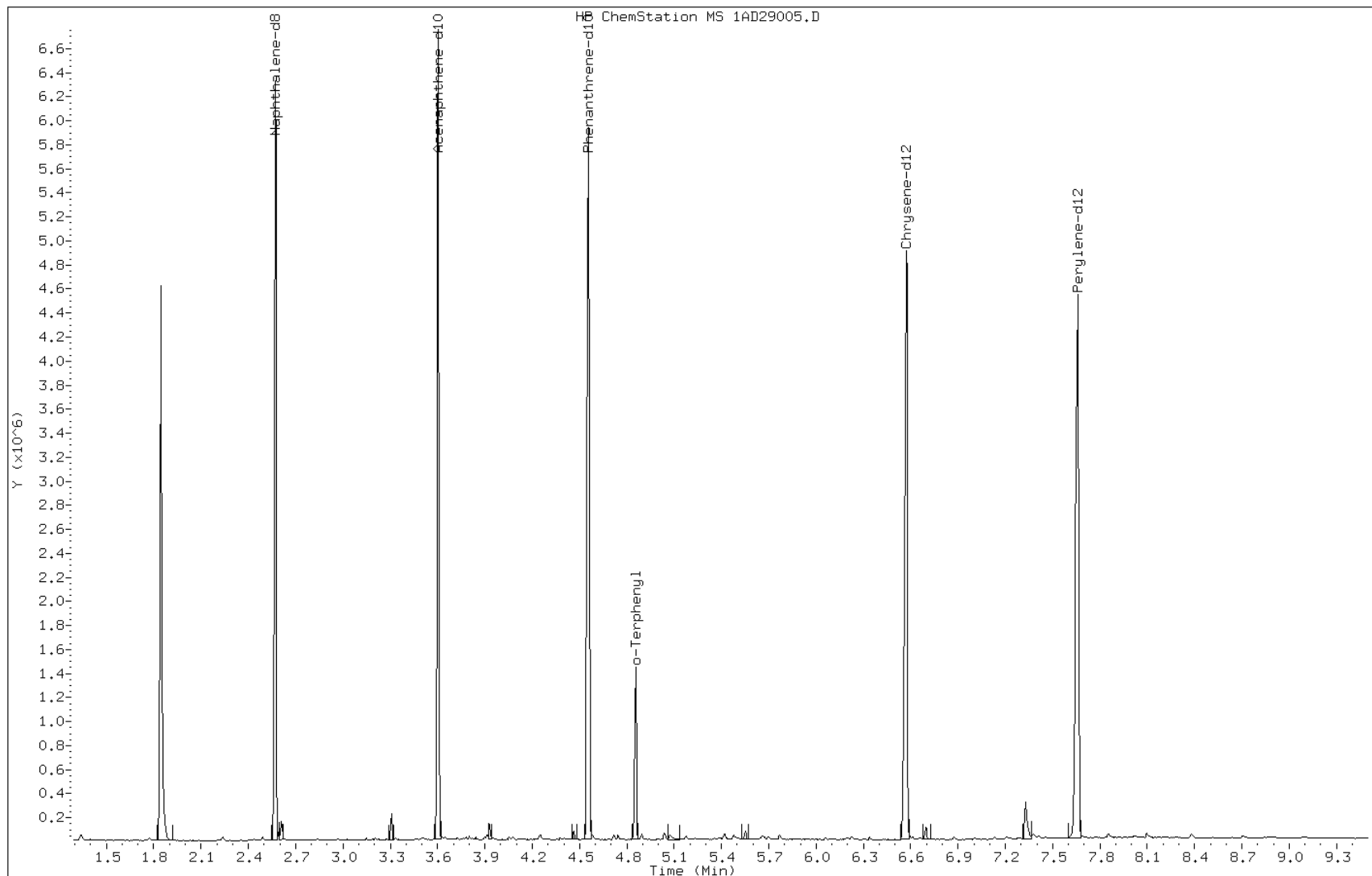
Date: 29-APR-2013 13:08

Client ID:

Instrument: BSMA5973.i

Sample Info: MB 660-136855/1-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: _____ Lab Sample ID: MB 660-136938/1-A
 Matrix: Solid Lab File ID: 1AE01008.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27
 Sample wt/vol: 15.06(g) Date Analyzed: 05/01/2013 14:46
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137001 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	84		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01008.D
 Lab Smp Id: MB 660-136938/1-A
 Inj Date : 01-MAY-2013 14:46
 Operator : SCC
 Smp Info : MB 660-136938/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 5 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: TAM1000
 Inst ID: BSMA5973.i
 Compound Sublist: pah.sub

Concentration Formula:

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.060	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		2.562	2.563	(1.000)	1636438	40.0000	
* 6 Acenaphthene-d10	164		3.587	3.594	(1.000)	863141	40.0000	
* 10 Phenanthrene-d10	188		4.544	4.544	(1.000)	1397479	40.0000	
\$ 14 o-Terphenyl	230		4.843	4.844	(1.066)	191118	8.36119	555.1917
* 18 Chrysene-d12	240		6.568	6.574	(1.000)	1389979	40.0000	
* 23 Perylene-d12	264		7.653	7.659	(1.000)	1362725	40.0000	

Data File: 1AE01008.D

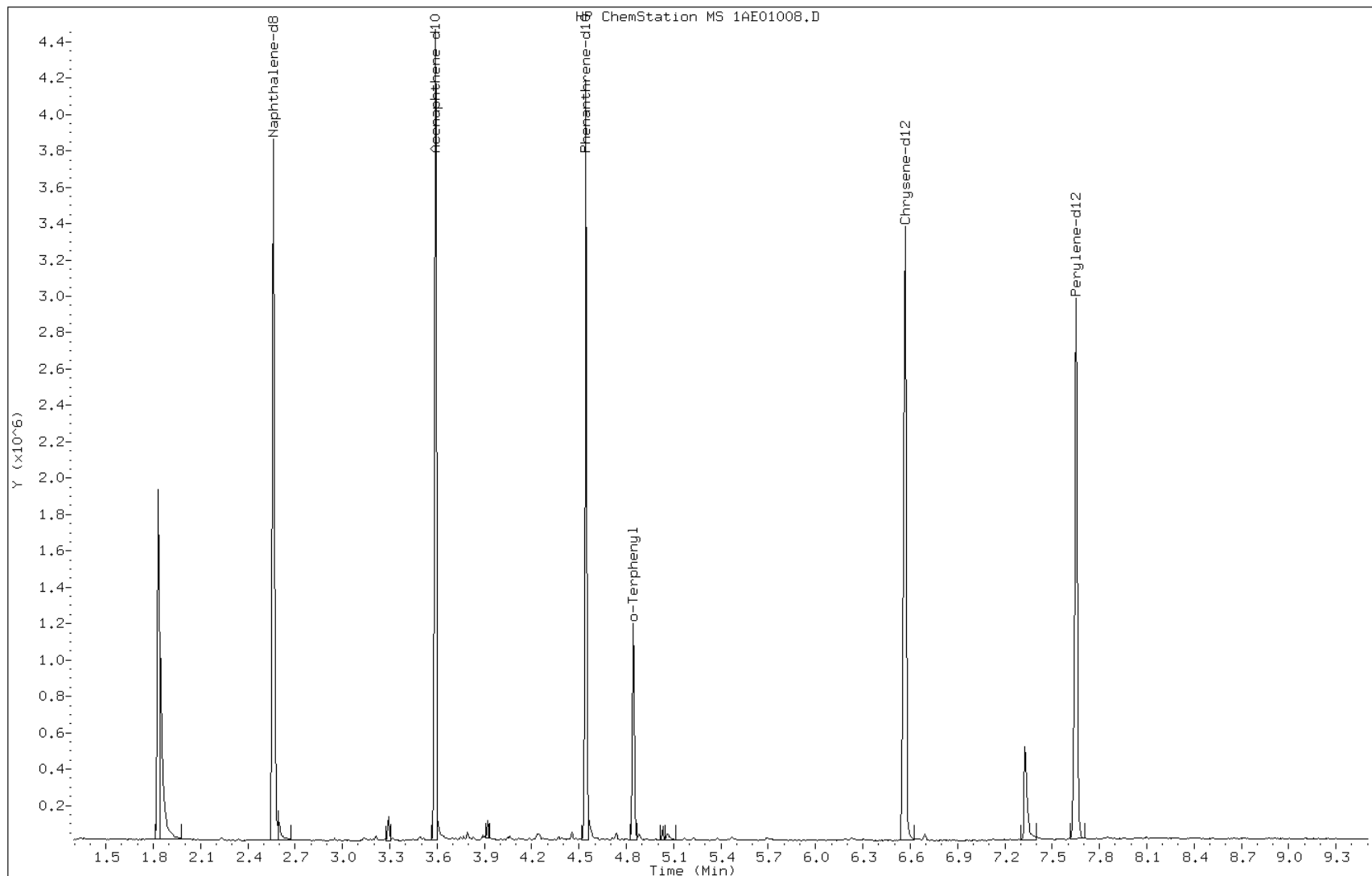
Date: 01-MAY-2013 14:46

Client ID:

Instrument: BSMA5973.i

Sample Info: MB 660-136938/1-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: _____ Lab Sample ID: MB 660-136981/1-A
 Matrix: Water Lab File ID: 1AE01033.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3520C Date Extracted: 04/30/2013 16:50
 Sample wt/vol: 1000(mL) Date Analyzed: 05/01/2013 21:03
 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.: 137001 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	2.0	U	2.0	0.50
208-96-8	Acenaphthylene	1.0	U	1.0	0.25
120-12-7	Anthracene	0.20	U	0.20	0.076
56-55-3	Benzo[a]anthracene	0.20	U	0.20	0.050
50-32-8	Benzo[a]pyrene	0.20	U	0.20	0.057
205-99-2	Benzo[b]fluoranthene	0.20	U	0.20	0.050
191-24-2	Benzo[g,h,i]perylene	0.50	U	0.50	0.10
207-08-9	Benzo[k]fluoranthene	0.20	U	0.20	0.057
218-01-9	Chrysene	0.20	U	0.20	0.069
53-70-3	Dibenz(a,h)anthracene	0.20	U	0.20	0.050
206-44-0	Fluoranthene	0.50	U	0.50	0.054
86-73-7	Fluorene	2.0	U	2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050
90-12-0	1-Methylnaphthalene	2.0	U	2.0	0.50
91-57-6	2-Methylnaphthalene	2.0	U	2.0	0.50
91-20-3	Naphthalene	2.0	U	2.0	0.25
85-01-8	Phenanthrene	0.50	U	0.50	0.20
129-00-0	Pyrene	0.50	U	0.50	0.089

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01033.D
 Lab Smp Id: mb 660-136981/1-A
 Inj Date : 01-MAY-2013 21:03
 Operator : SCC
 Smp Info : mb 660-136981/1-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01033.D
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 30 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

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

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

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	2.574	2.563	(1.000)	1280985	40.0000	
* 6 Acenaphthene-d10	164	3.599	3.594	(1.000)	708781	40.0000	
* 10 Phenanthrene-d10	188	4.561	4.544	(1.000)	1129051	40.0000	
\$ 14 o-Terphenyl	230	4.860	4.844	(1.066)	132666	7.18386	7.1838
* 18 Chrysene-d12	240	6.602	6.574	(1.000)	1309342	40.0000	
* 23 Perylene-d12	264	7.702	7.659	(1.000)	1436169	40.0000	

Data File: 1AE01033.D

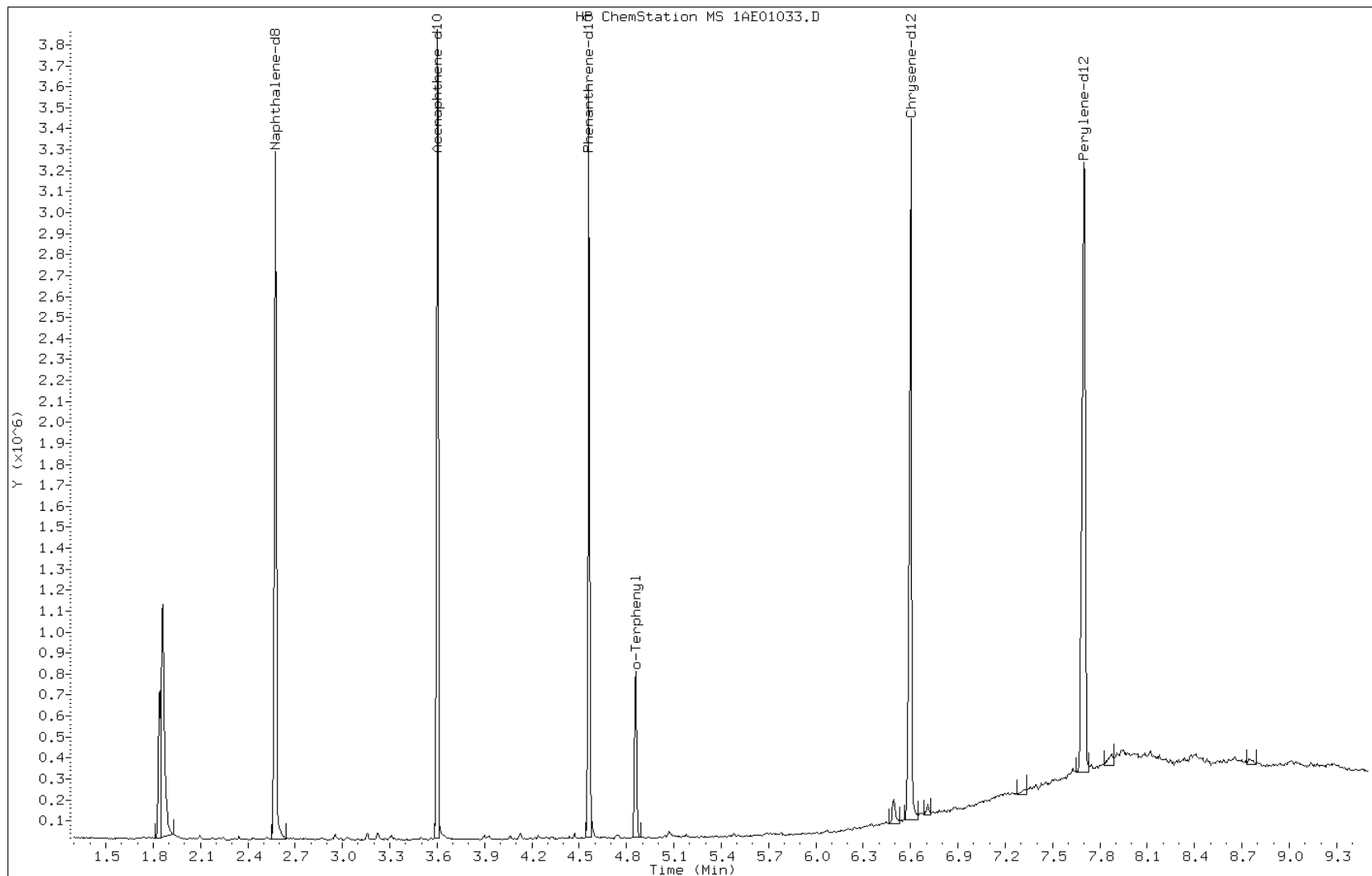
Date: 01-MAY-2013 21:03

Client ID:

Instrument: BSMA5973.i

Sample Info: mb 660-136981/1-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: _____ Lab Sample ID: LCS 660-136855/2-A
 Matrix: Solid Lab File ID: 1AD29006.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/26/2013 07:28
 Sample wt/vol: 15.24(g) Date Analyzed: 04/29/2013 13:24
 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.: 136961 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	395		98	20
208-96-8	Acenaphthylene	392		39	4.9
120-12-7	Anthracene	399		8.3	4.1
56-55-3	Benzo[a]anthracene	400		7.9	3.8
50-32-8	Benzo[a]pyrene	390		10	5.1
205-99-2	Benzo[b]fluoranthene	430		12	6.0
191-24-2	Benzo[g,h,i]perylene	396		20	4.3
207-08-9	Benzo[k]fluoranthene	392		7.9	3.5
218-01-9	Chrysene	376		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	462		20	4.0
206-44-0	Fluoranthene	442		20	3.9
86-73-7	Fluorene	420		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	423		20	7.0
90-12-0	1-Methylnaphthalene	453		39	4.3
91-57-6	2-Methylnaphthalene	430		39	7.0
91-20-3	Naphthalene	410		39	4.3
85-01-8	Phenanthrene	386		7.9	3.8
129-00-0	Pyrene	413		20	3.6

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\BSMA5973.i\1A042913.b\1AD29006.D
 Lab Smp Id: LCS 660-136855/2-A
 Inj Date : 29-APR-2013 13:24
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : LCS 660-136855/2-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
 Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.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	15.240	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		2.576	2.572	(1.000)	2197337	40.0000	
* 6 Acenaphthene-d10	164		3.607	3.603	(1.000)	1155712	40.0000	
* 10 Phenanthrene-d10	188		4.558	4.554	(1.000)	2046244	40.0000	
\$ 14 o-Terphenyl	230		4.851	4.859	(1.064)	217358	6.49426	426.1327
* 18 Chrysene-d12	240		6.572	6.574	(1.000)	1891133	40.0000	
* 23 Perylene-d12	264		7.656	7.663	(1.000)	1900613	40.0000	
2 Naphthalene	128		2.586	2.583	(1.004)	343324	6.25033	410.1267
3 2-Methylnaphthalene	141		2.987	2.989	(1.160)	206567	6.55936	430.4039
4 1-Methylnaphthalene	142		3.046	3.048	(1.182)	240782	6.90108	452.8265
5 Acenaphthylene	152		3.516	3.513	(0.975)	403617	5.97570	392.1065
7 Acenaphthene	154		3.623	3.619	(1.004)	213018	6.01385	394.6094
9 Fluorene	166		3.933	3.935	(1.090)	272756	6.40023	419.9626
11 Phenanthrene	178		4.568	4.570	(1.002)	348954	5.88698	386.2844
12 Anthracene	178		4.600	4.608	(1.009)	374398	6.07455	398.5924

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	4.729	4.736	(1.038)	369280	6.21079	407.5323
15 Fluoranthene	202	5.428	5.436	(1.191)	461172	6.73591	441.9891
16 Pyrene	202	5.594	5.601	(0.851)	454131	6.29443	413.0203
17 Benzo(a)anthracene	228	6.561	6.563	(0.998)	376102	6.08985	399.5962
19 Chrysene	228	6.588	6.595	(1.002)	358972	5.72929	375.9375
20 Benzo(b)fluoranthene	252	7.373	7.380	(0.963)	378202	6.55446	430.0826
21 Benzo(k)fluoranthene	252	7.394	7.407	(0.966)	396811	5.98128	392.4725
22 Benzo(a)pyrene	252	7.597	7.610	(0.992)	341506	5.94933	390.3761
24 Indeno(1,2,3-cd)pyrene	276	8.404	8.427	(1.098)	349003	6.43920	422.5193(H)
25 Dibenzo(a,h)anthracene	278	8.431	8.454	(1.101)	354707	7.03362	461.5237
26 Benzo(g,h,i)perylene	276	8.623	8.646	(1.126)	366534	6.04244	396.4858

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1AD29006.D

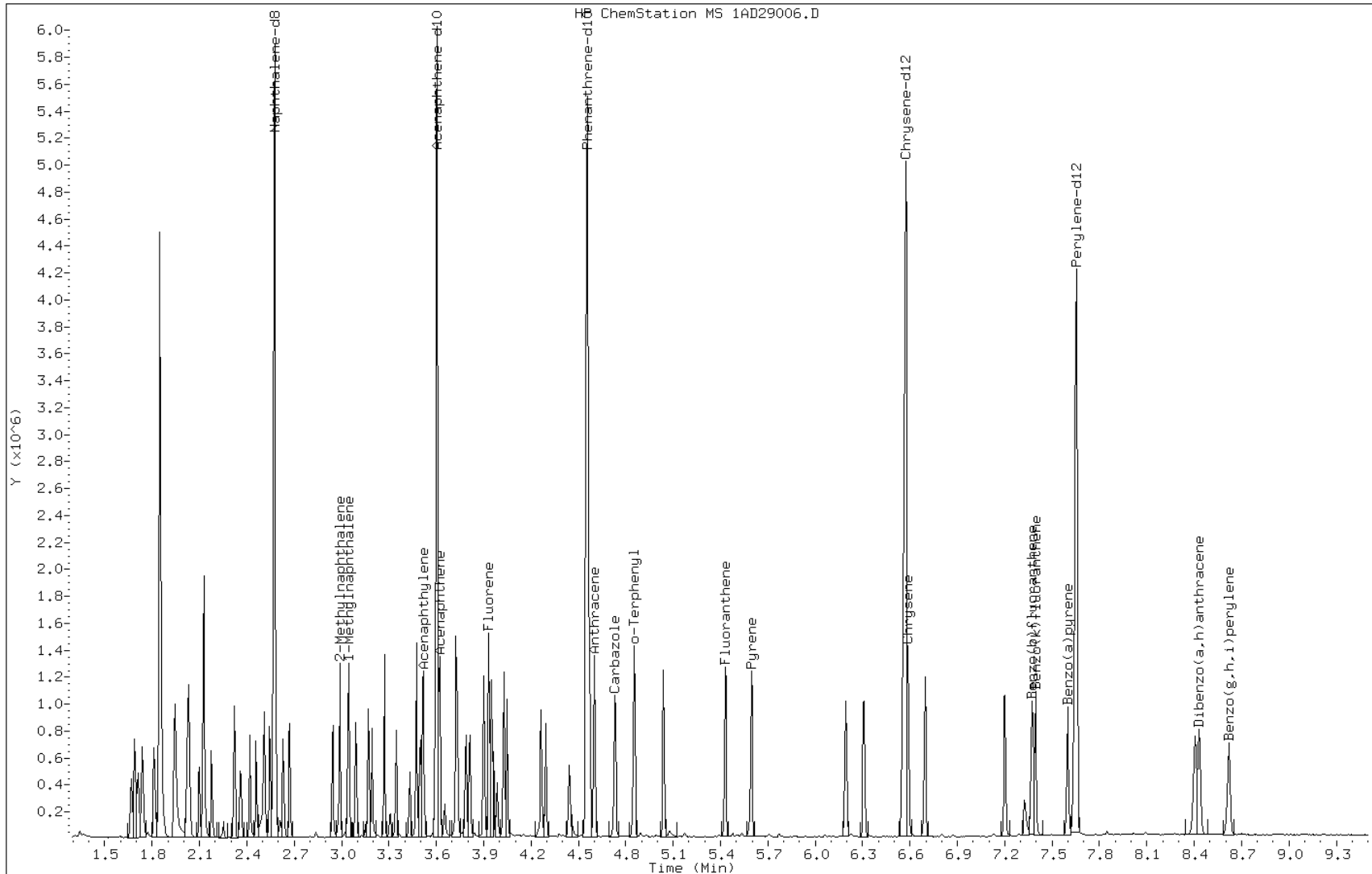
Date: 29-APR-2013 13:24

Client ID:

Instrument: BSMA5973.i

Sample Info: LCS 660-136855/2-A

Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: _____ Lab Sample ID: LCS 660-136938/2-A
 Matrix: Solid Lab File ID: 1AE01009.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27
 Sample wt/vol: 15.00(g) Date Analyzed: 05/01/2013 15:02
 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.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	453		100	20
208-96-8	Acenaphthylene	466		40	5.0
120-12-7	Anthracene	487		8.4	4.2
56-55-3	Benzo[a]anthracene	509		8.0	3.9
50-32-8	Benzo[a]pyrene	496		10	5.2
205-99-2	Benzo[b]fluoranthene	523		12	6.1
191-24-2	Benzo[g,h,i]perylene	525		20	4.4
207-08-9	Benzo[k]fluoranthene	516		8.0	3.6
218-01-9	Chrysene	484		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	593		20	4.1
206-44-0	Fluoranthene	524		20	4.0
86-73-7	Fluorene	485		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	560		20	7.1
90-12-0	1-Methylnaphthalene	530		40	4.4
91-57-6	2-Methylnaphthalene	505		40	7.1
91-20-3	Naphthalene	497		40	4.4
85-01-8	Phenanthrene	471		8.0	3.9
129-00-0	Pyrene	484		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\BSMA5973.i\1A050113.b\1AE01009.D
 Lab Smp Id: lcs 660-136938/2-a
 Inj Date : 01-MAY-2013 15:02
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : lcs 660-136938/2-a
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.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	15.000	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136		2.559	2.563	(1.000)	1571668	40.0000		
* 6 Acenaphthene-d10	164		3.590	3.594	(1.000)	823778	40.0000		
* 10 Phenanthrene-d10	188		4.541	4.544	(1.000)	1440816	40.0000		
\$ 14 o-Terphenyl	230		4.846	4.844	(1.067)	167717	7.11673	474.4483	
* 18 Chrysene-d12	240		6.566	6.574	(1.000)	1384316	40.0000		
* 23 Perylene-d12	264		7.656	7.659	(1.000)	1342428	40.0000		
2 Naphthalene	128		2.570	2.573	(1.004)	292883	7.45468	496.9786	
3 2-Methylnaphthalene	141		2.976	2.979	(1.163)	170751	7.58053	505.3684	
4 1-Methylnaphthalene	142		3.030	3.033	(1.184)	198333	7.94737	529.8249	
5 Acenaphthylene	152		3.500	3.503	(0.975)	336284	6.98498	465.6654	
7 Acenaphthene	154		3.606	3.610	(1.004)	171651	6.79864	453.2425	
9 Fluorene	166		3.922	3.925	(1.092)	220817	7.26931	484.6208	
11 Phenanthrene	178		4.557	4.560	(1.004)	294733	7.06158	470.7718	
12 Anthracene	178		4.589	4.593	(1.011)	317267	7.31062	487.3747	

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----		----	-----	-----	-----	-----	-----
13 Carbazole	167		4.723	4.726	(1.040)	288522	6.89158	459.4389
15 Fluoranthene	202		5.423	5.426	(1.194)	379195	7.86584	524.3893
16 Pyrene	202		5.588	5.592	(0.851)	383491	7.26135	484.0899
17 Benzo(a)anthracene	228		6.555	6.558	(0.998)	345263	7.63726	509.1506
19 Chrysene	228		6.582	6.590	(1.002)	333263	7.26631	484.4207
20 Benzo(b)fluoranthene	252		7.373	7.381	(0.963)	319654	7.84325	522.8831
21 Benzo(k)fluoranthene	252		7.394	7.402	(0.966)	362627	7.73879	515.9196
22 Benzo(a)pyrene	252		7.602	7.605	(0.993)	301951	7.44748	496.4983
24 Indeno(1,2,3-cd)pyrene	276		8.409	8.423	(1.098)	321848	8.40729	560.4859(M)
25 Dibenzo(a,h)anthracene	278		8.436	8.450	(1.102)	316878	8.89619	593.0793
26 Benzo(g,h,i)perylene	276		8.628	8.642	(1.127)	337241	7.87121	524.7472

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE01009.D

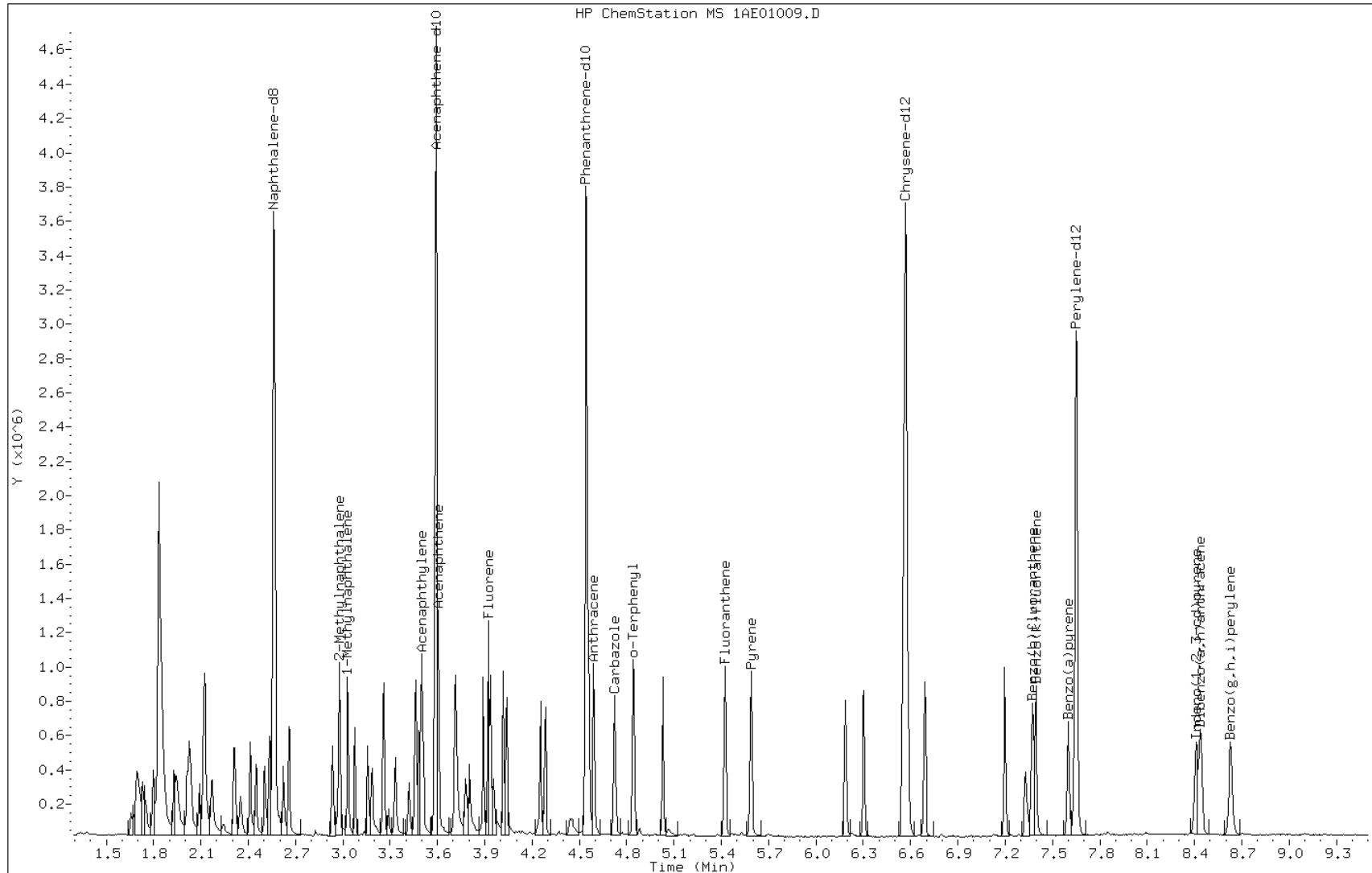
Date: 01-MAY-2013 15:02

Client ID:

Instrument: BSMA5973.i

Sample Info: lcs 660-136938/2-a

Operator: SCC

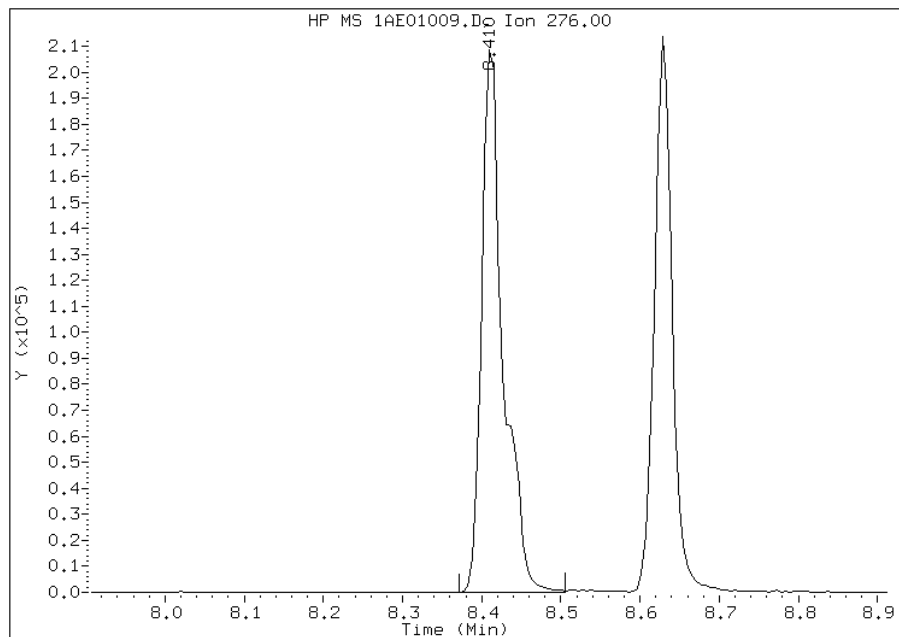


Manual Integration Report

Data File: 1AE01009.D
Inj. Date and Time: 01-MAY-2013 15:02
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/01/2013

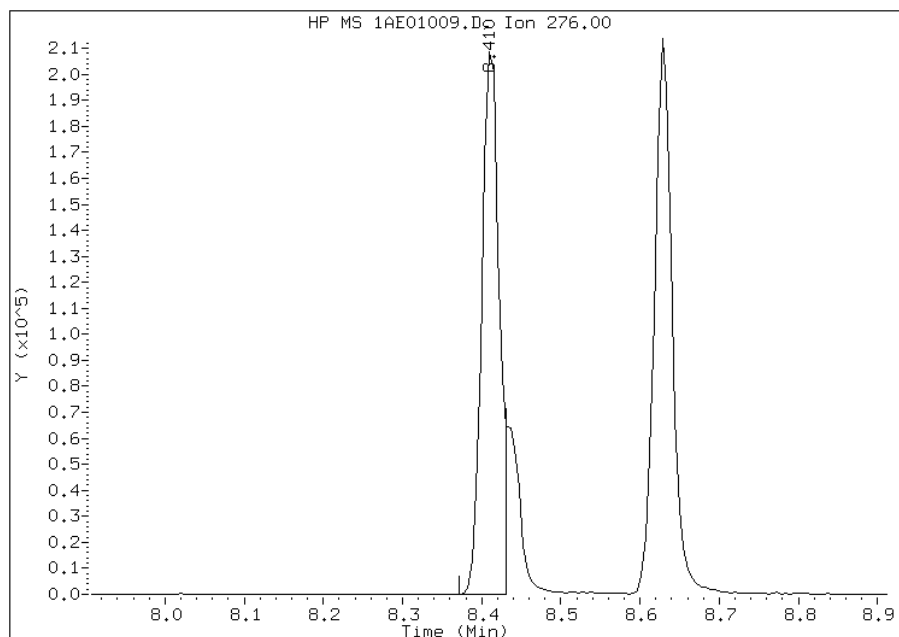
Processing Integration Results

RT: 8.41
Response: 387715
Amount: 10
Conc: 675



Manual Integration Results

RT: 8.41
Response: 321848
Amount: 8
Conc: 560



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:33
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: _____ Lab Sample ID: LCS 660-136981/2-A
 Matrix: Water Lab File ID: 1AE01034.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3520C Date Extracted: 04/30/2013 16:50
 Sample wt/vol: 1000 (mL) Date Analyzed: 05/01/2013 21:18
 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.: 137001 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.97		2.0	0.50
208-96-8	Acenaphthylene	7.94		1.0	0.25
120-12-7	Anthracene	8.66		0.20	0.076
56-55-3	Benzo[a]anthracene	8.92		0.20	0.050
50-32-8	Benzo[a]pyrene	5.70		0.20	0.057
205-99-2	Benzo[b]fluoranthene	7.35		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	2.90		0.50	0.10
207-08-9	Benzo[k]fluoranthene	5.87		0.20	0.057
218-01-9	Chrysene	7.95		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	3.55		0.20	0.050
206-44-0	Fluoranthene	9.14		0.50	0.054
86-73-7	Fluorene	8.37		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	3.35		0.20	0.050
90-12-0	1-Methylnaphthalene	9.24		2.0	0.50
91-57-6	2-Methylnaphthalene	9.13		2.0	0.50
91-20-3	Naphthalene	9.09		2.0	0.25
85-01-8	Phenanthrene	8.89		0.50	0.20
129-00-0	Pyrene	7.53		0.50	0.089

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	82		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01034.D
 Lab Smp Id: lcs 660-136981/2-A
 Inj Date : 01-MAY-2013 21:18
 Operator : SCC
 Smp Info : lcs 660-136981/2-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01034.D
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 31 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

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

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

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136		2.575	2.563	(1.000)	1230319	40.0000		
* 6 Acenaphthene-d10	164		3.600	3.594	(1.000)	698907	40.0000		
* 10 Phenanthrene-d10	188		4.562	4.544	(1.000)	1184805	40.0000		
\$ 14 o-Terphenyl	230		4.856	4.844	(1.064)	159370	8.22378	8.2237	
* 18 Chrysene-d12	240		6.603	6.574	(1.000)	1296745	40.0000		
* 23 Perylene-d12	264		7.698	7.659	(1.000)	1437697	40.0000		
2 Naphthalene	128		2.585	2.573	(1.004)	279642	9.09244	9.0924	
3 2-Methylnaphthalene	141		2.986	2.979	(1.160)	161070	9.13469	9.1346	
4 1-Methylnaphthalene	142		3.045	3.033	(1.183)	180524	9.24074	9.2407	
5 Acenaphthylene	152		3.515	3.503	(0.976)	324222	7.93766	7.9376	
7 Acenaphthene	154		3.622	3.610	(1.006)	170810	7.97406	7.9740	
9 Fluorene	166		3.937	3.925	(1.093)	215786	8.37288	8.3728	
11 Phenanthrene	178		4.578	4.560	(1.004)	305015	8.88701	8.8870	
12 Anthracene	178		4.610	4.593	(1.011)	308954	8.65735	8.6573	
13 Carbazole	167		4.749	4.726	(1.041)	299133	8.68893	8.6889	
15 Fluoranthene	202		5.449	5.426	(1.194)	362305	9.13942	9.1394	
16 Pyrene	202		5.614	5.592	(0.850)	372405	7.52763	7.5276	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====		=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228		6.592	6.558	(0.998)	377934	8.92451	8.9245
19 Chrysene	228		6.619	6.590	(1.002)	341589	7.95081	7.9508
20 Benzo(b)fluoranthene	252		7.415	7.381	(0.963)	320875	7.35149	7.3514
21 Benzo(k)fluoranthene	252		7.431	7.402	(0.965)	294654	5.87150	5.8715
22 Benzo(a)pyrene	252		7.644	7.605	(0.993)	247317	5.69574	5.6957
24 Indeno(1,2,3-cd)pyrene	276		8.472	8.423	(1.101)	137470	3.35302	3.3530(M)
25 Dibenzo(a,h)anthracene	278		8.499	8.450	(1.104)	135426	3.55008	3.5500
26 Benzo(g,h,i)perylene	276		8.697	8.642	(1.130)	133110	2.90092	2.9009

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE01034.D

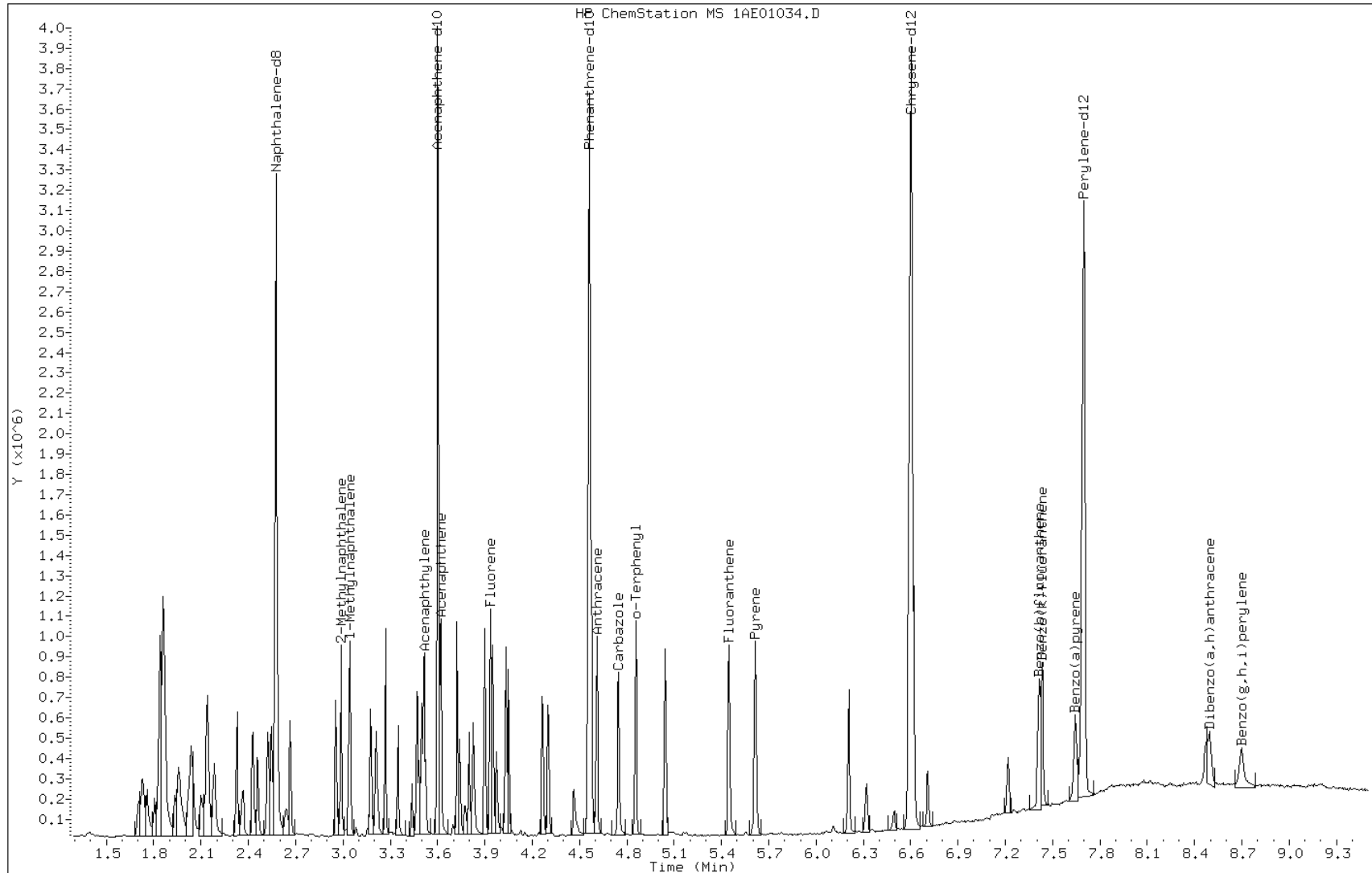
Date: 01-MAY-2013 21:18

Client ID:

Instrument: BSMA5973.i

Sample Info: lcs 660-136981/2-A

Operator: SCC

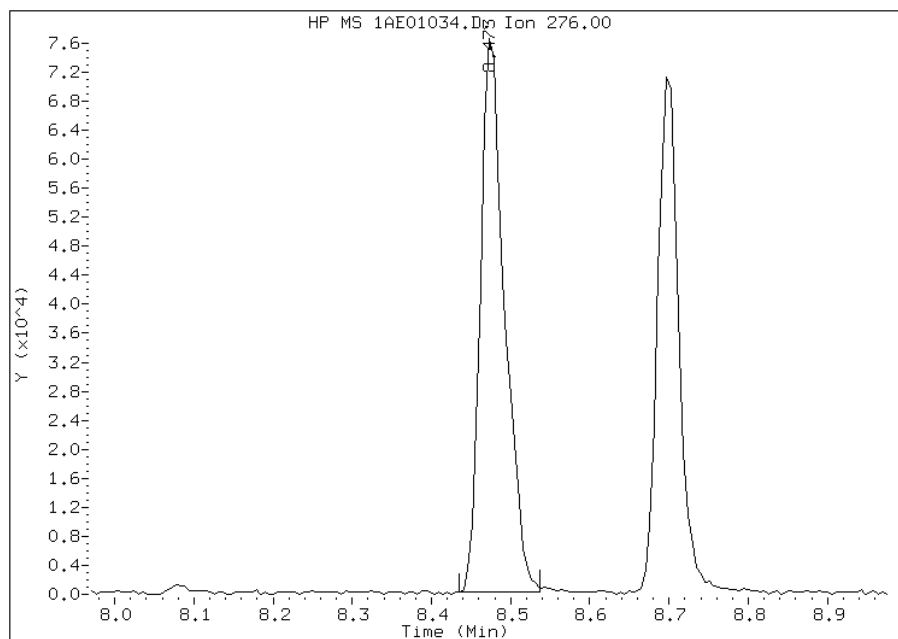


Manual Integration Report

Data File: 1AE01034.D
Inj. Date and Time: 01-MAY-2013 21:18
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/05/2013

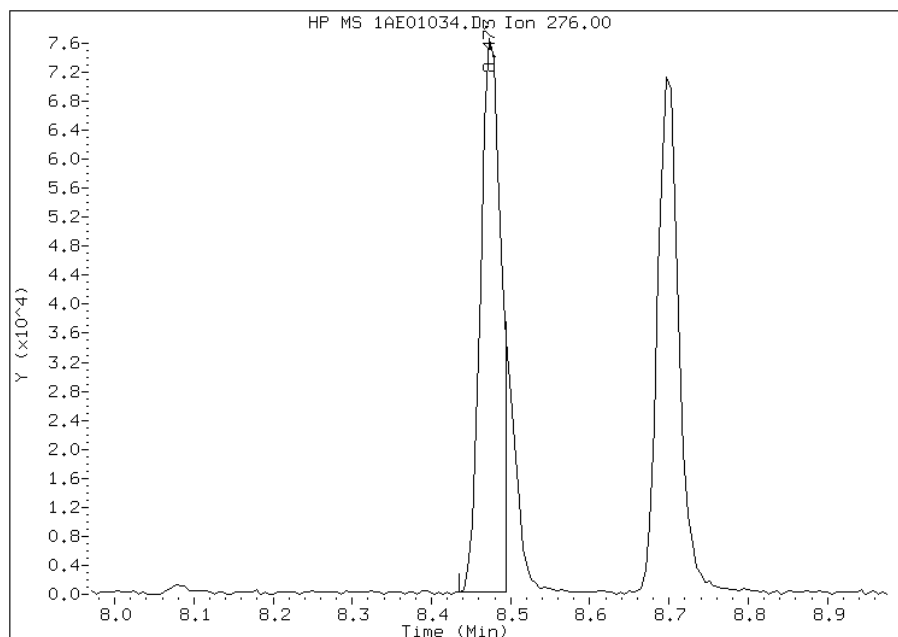
Processing Integration Results

RT: 8.47
Response: 160851
Amount: 4
Conc: 4



Manual Integration Results

RT: 8.47
Response: 137470
Amount: 3
Conc: 3



Manually Integrated By: cantins
Modification Date: 05-May-2013 16:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: _____ Lab Sample ID: LCSD 660-136981/3-A
 Matrix: Water Lab File ID: 1AE01035.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3520C Date Extracted: 04/30/2013 16:50
 Sample wt/vol: 1000(mL) Date Analyzed: 05/01/2013 21:33
 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.: 137001 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	7.58		2.0	0.50
208-96-8	Acenaphthylene	7.72		1.0	0.25
120-12-7	Anthracene	8.59		0.20	0.076
56-55-3	Benzo[a]anthracene	8.47		0.20	0.050
50-32-8	Benzo[a]pyrene	5.15		0.20	0.057
205-99-2	Benzo[b]fluoranthene	5.67		0.20	0.050
191-24-2	Benzo[g,h,i]perylene	2.70		0.50	0.10
207-08-9	Benzo[k]fluoranthene	6.07		0.20	0.057
218-01-9	Chrysene	7.26		0.20	0.069
53-70-3	Dibenz(a,h)anthracene	3.12		0.20	0.050
206-44-0	Fluoranthene	9.50		0.50	0.054
86-73-7	Fluorene	8.29		2.0	0.50
193-39-5	Indeno[1,2,3-cd]pyrene	2.97		0.20	0.050
90-12-0	1-Methylnaphthalene	8.89		2.0	0.50
91-57-6	2-Methylnaphthalene	8.76		2.0	0.50
91-20-3	Naphthalene	8.81		2.0	0.25
85-01-8	Phenanthrene	8.45		0.50	0.20
129-00-0	Pyrene	7.81		0.50	0.089

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01035.D
 Lab Smp Id: lcsd 660-136981/3-A
 Inj Date : 01-MAY-2013 21:33
 Operator : SCC
 Smp Info : lcsd 660-136981/3-A
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01035.D
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 32 QC Sample: LCSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

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

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

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136		2.575	2.563	(1.000)	1313890	40.0000		
* 6 Acenaphthene-d10	164		3.600	3.594	(1.000)	731807	40.0000		
* 10 Phenanthrene-d10	188		4.562	4.544	(1.000)	1258137	40.0000		
\$ 14 o-Terphenyl	230		4.856	4.844	(1.064)	164053	7.97201	7.9720	
* 18 Chrysene-d12	240		6.603	6.574	(1.000)	1375484	40.0000		
* 23 Perylene-d12	264		7.698	7.659	(1.000)	1514181	40.0000		
2 Naphthalene	128		2.585	2.573	(1.004)	289455	8.81288	8.8128	
3 2-Methylnaphthalene	141		2.986	2.979	(1.160)	165028	8.76386	8.7638	
4 1-Methylnaphthalene	142		3.045	3.033	(1.183)	185488	8.89091	8.8909	
5 Acenaphthylene	152		3.515	3.503	(0.976)	330237	7.72144	7.7214	
7 Acenaphthene	154		3.622	3.610	(1.006)	169991	7.57906	7.5790	
9 Fluorene	166		3.937	3.925	(1.093)	223779	8.29266	8.2926	
11 Phenanthrene	178		4.573	4.560	(1.002)	308100	8.45367	8.4536	
12 Anthracene	178		4.610	4.593	(1.011)	325674	8.59396	8.5939	
13 Carbazole	167		4.749	4.726	(1.041)	317863	8.69482	8.6948	
15 Fluoranthene	202		5.449	5.426	(1.194)	400089	9.50429	9.5042	
16 Pyrene	202		5.614	5.592	(0.850)	409947	7.81213	7.8121	

Compounds	QUANT SIG		CONCENTRATIONS					
	MASS		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
=====	=====		=====	=====	=====	=====	=====	=====
17 Benzo(a)anthracene	228		6.592	6.558	(0.998)	380305	8.46641	8.4664
19 Chrysene	228		6.619	6.590	(1.002)	330821	7.25938	7.2593
20 Benzo(b)fluoranthene	252		7.415	7.381	(0.963)	260545	5.66776	5.6677
21 Benzo(k)fluoranthene	252		7.431	7.402	(0.965)	320668	6.06711	6.0671
22 Benzo(a)pyrene	252		7.644	7.605	(0.993)	235510	5.14986	5.1498
24 Indeno(1,2,3-cd)pyrene	276		8.472	8.423	(1.101)	128186	2.96865	2.9686(M)
25 Dibenzo(a,h)anthracene	278		8.494	8.450	(1.103)	125166	3.11538	3.1153
26 Benzo(g,h,i)perylene	276		8.697	8.642	(1.130)	130282	2.69587	2.6958

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE01035.D

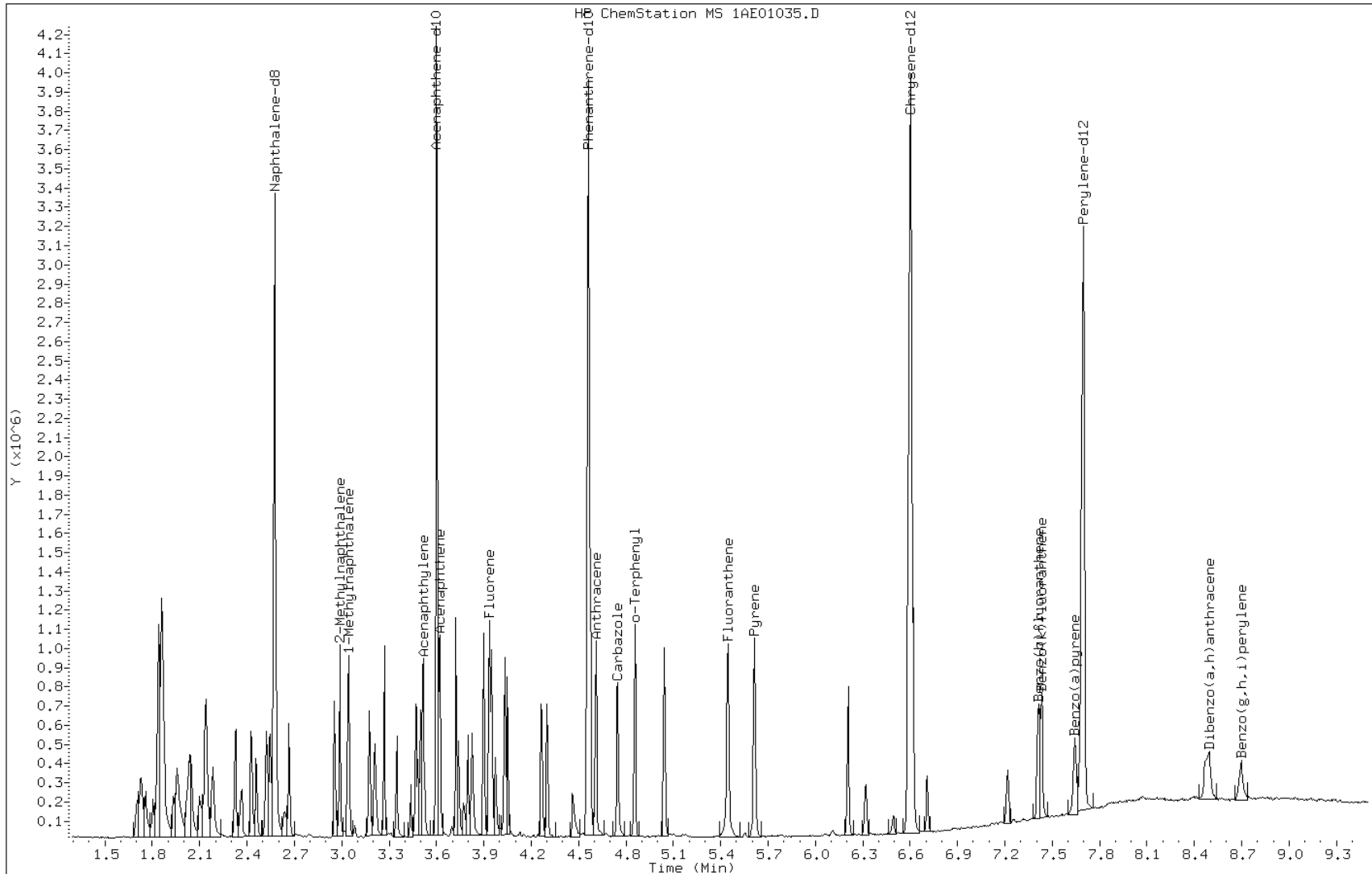
Date: 01-MAY-2013 21:33

Client ID:

Instrument: BSMA5973.i

Sample Info: lcsd 660-136981/3-A

Operator: SCC

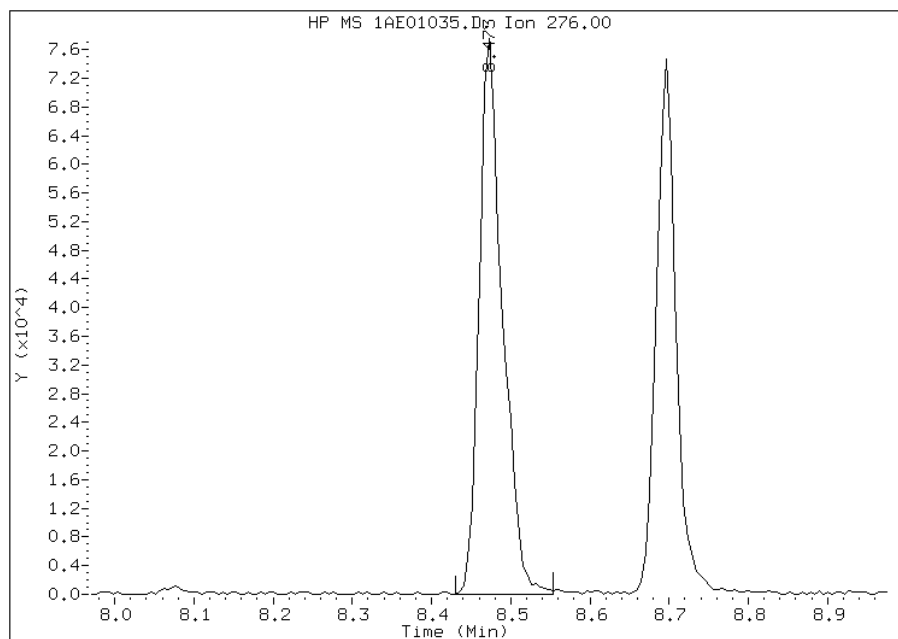


Manual Integration Report

Data File: 1AE01035.D
Inj. Date and Time: 01-MAY-2013 21:33
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/05/2013

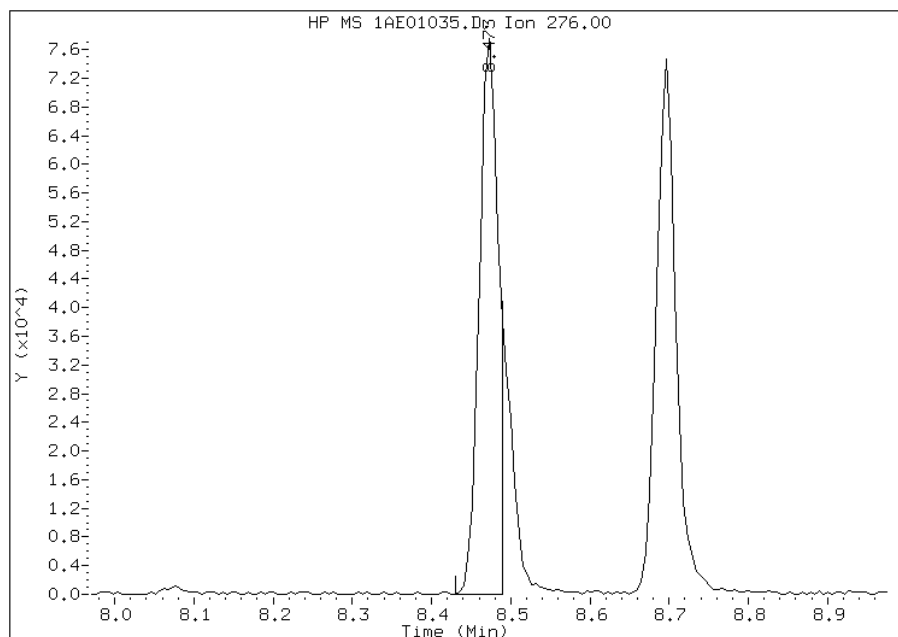
Processing Integration Results

RT: 8.47
Response: 157717
Amount: 4
Conc: 4



Manual Integration Results

RT: 8.47
Response: 128186
Amount: 3
Conc: 3



Manually Integrated By: cantins
Modification Date: 05-May-2013 16:07
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: _____ Lab Sample ID: 680-89695-A-4-B MS
 Matrix: Solid Lab File ID: 1AD29008.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/26/2013 07:28
 Sample wt/vol: 14.95(g) Date Analyzed: 04/29/2013 13:54
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 16.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136961 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	342		120	24
208-96-8	Acenaphthylene	347		48	6.0
120-12-7	Anthracene	374		10	5.0
56-55-3	Benzo[a]anthracene	437		9.6	4.7
50-32-8	Benzo[a]pyrene	412		12	6.2
205-99-2	Benzo[b]fluoranthene	554		15	7.3
191-24-2	Benzo[g,h,i]perylene	483		24	5.3
207-08-9	Benzo[k]fluoranthene	341		9.6	4.3
218-01-9	Chrysene	508		11	5.4
53-70-3	Dibenz(a,h)anthracene	483		24	4.9
206-44-0	Fluoranthene	537		24	4.8
86-73-7	Fluorene	352		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	505		24	8.5
90-12-0	1-Methylnaphthalene	453		48	5.3
91-57-6	2-Methylnaphthalene	456		48	8.5
91-20-3	Naphthalene	455		48	5.3
85-01-8	Phenanthrene	498		9.6	4.7
129-00-0	Pyrene	522		24	4.4

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\BSMA5973.i\1A042913.b\1AD29008.D
 Lab Smp Id: 680-89695-a-4-b ms
 Inj Date : 29-APR-2013 13:54
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-4-b ms
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
 Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 8 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.576	2.572	(1.000)	1871480	40.0000	
* 6 Acenaphthene-d10	164		3.607	3.603	(1.000)	952358	40.0000	
* 10 Phenanthrene-d10	188		4.558	4.554	(1.000)	1516673	40.0000	
\$ 14 o-Terphenyl	230		4.857	4.859	(1.066)	110170	4.44102	297.0584
* 18 Chrysene-d12	240		6.577	6.574	(1.000)	1307573	40.0000	
* 23 Perylene-d12	264		7.662	7.663	(1.000)	1668789	40.0000	
2 Naphthalene	128		2.587	2.583	(1.004)	266784	5.70256	381.4424
3 2-Methylnaphthalene	141		2.993	2.989	(1.162)	153316	5.71609	382.3472
4 1-Methylnaphthalene	142		3.046	3.048	(1.182)	168652	5.67539	379.6247
5 Acenaphthylene	152		3.516	3.513	(0.975)	242144	4.35054	291.0057
7 Acenaphthene	154		3.623	3.619	(1.004)	125168	4.28824	286.8386
9 Fluorene	166		3.933	3.935	(1.090)	154746	4.40646	294.7467
11 Phenanthrene	178		4.569	4.570	(1.002)	273800	6.23194	416.8518
12 Anthracene	178		4.601	4.608	(1.009)	214168	4.68814	313.5879

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
-----	----	----	-----	-----	-----	-----	-----
13 Carbazole	167	4.734	4.736	(1.039)	191986	4.35639	291.3969(R)
15 Fluoranthene	202	5.434	5.436	(1.192)	341197	6.72364	449.7416
16 Pyrene	202	5.600	5.601	(0.851)	326150	6.53806	437.3283
17 Benzo(a)anthracene	228	6.567	6.563	(0.998)	233957	5.47889	366.4811
19 Chrysene	228	6.593	6.595	(1.002)	275857	6.36767	425.9307
20 Benzo(b)fluoranthene	252	7.384	7.380	(0.964)	351684	6.94157	464.3193
21 Benzo(k)fluoranthene	252	7.400	7.407	(0.966)	248726	4.26996	285.6161
22 Benzo(a)pyrene	252	7.608	7.610	(0.993)	260217	5.16295	345.3477
24 Indeno(1,2,3-cd)pyrene	276	8.426	8.427	(1.100)	300961	6.32419	423.0227
25 Dibenzo(a,h)anthracene	278	8.447	8.454	(1.102)	268161	6.05616	405.0941(M)
26 Benzo(g,h,i)perylene	276	8.645	8.646	(1.128)	322363	6.05251	404.8504

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1AD29008.D

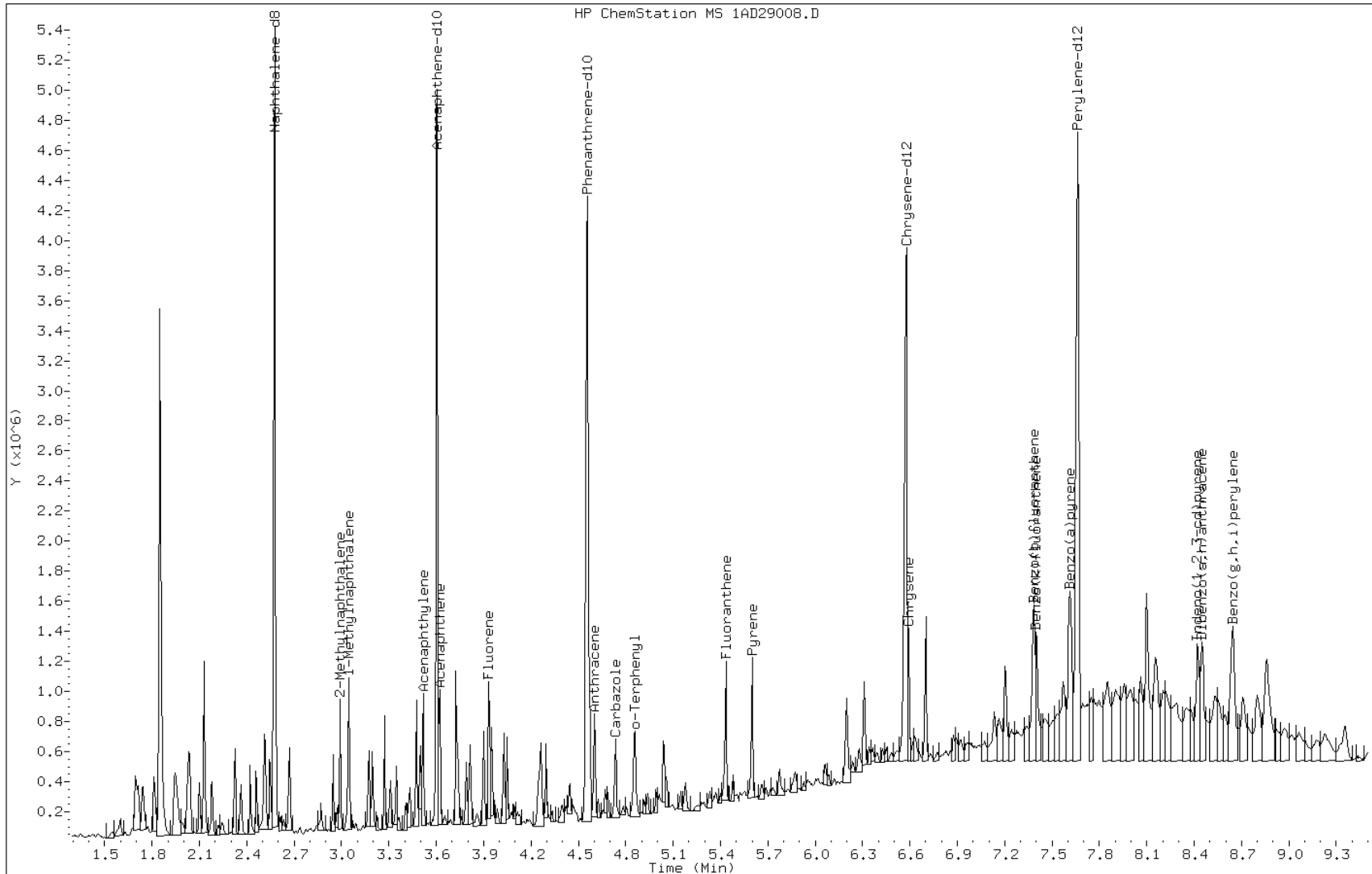
Date: 29-APR-2013 13:54

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-b ms

Operator: SCC

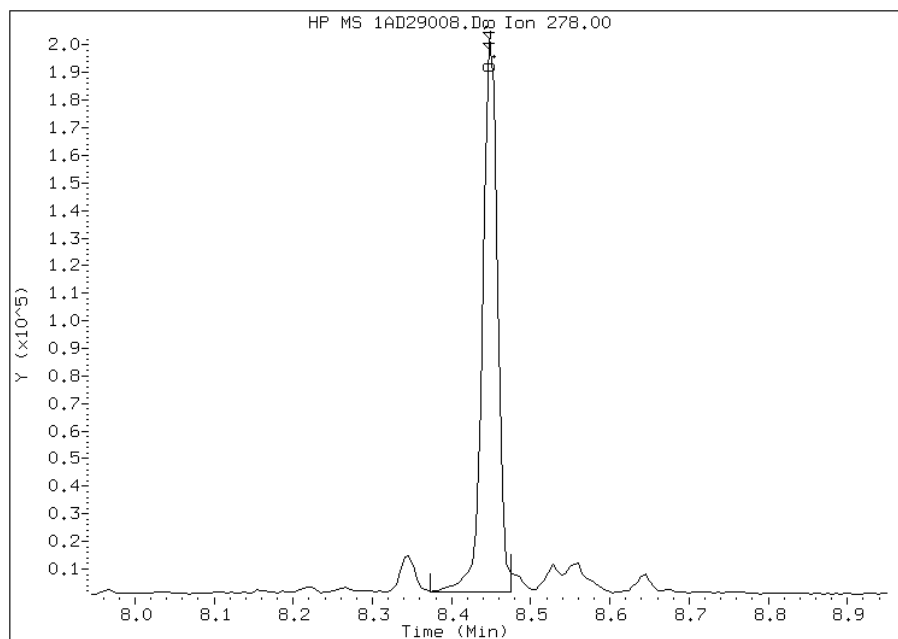


Manual Integration Report

Data File: 1AD29008.D
Inj. Date and Time: 29-APR-2013 13:54
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/02/2013

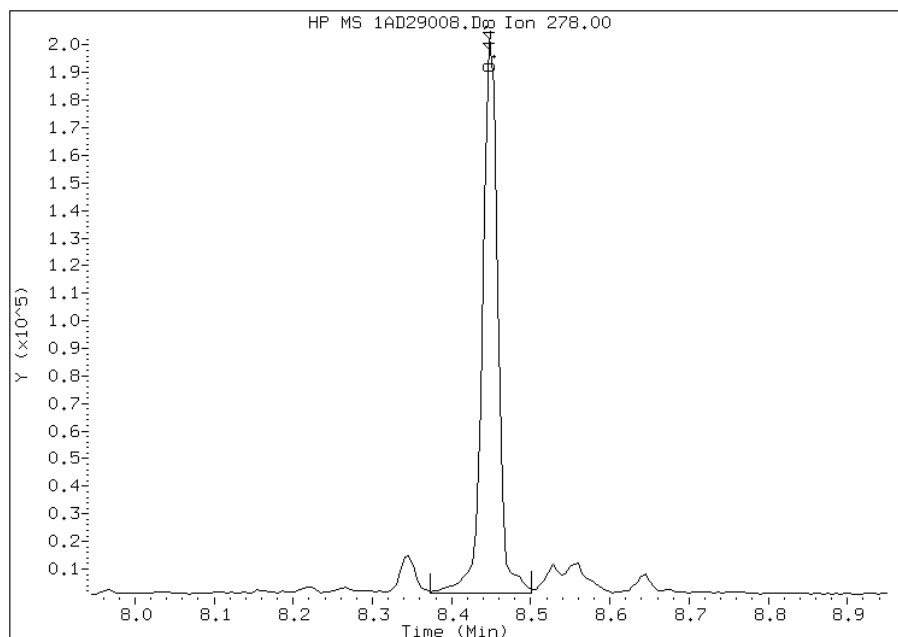
Processing Integration Results

RT: 8.45
Response: 260791
Amount: 6
Conc: 394



Manual Integration Results

RT: 8.45
Response: 268161
Amount: 6
Conc: 405



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:28
Manual Integration Reason: Baseline Event

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV1158A-CS MS Lab Sample ID: 680-89695-21 MS
 Matrix: Solid Lab File ID: 1AE01012.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 14:45
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27
 Sample wt/vol: 14.93(g) Date Analyzed: 05/01/2013 15:47
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550		490	98
208-96-8	Acenaphthylene	556		200	24
120-12-7	Anthracene	646		41	21
56-55-3	Benzo[a]anthracene	945		39	19
50-32-8	Benzo[a]pyrene	799		51	25
205-99-2	Benzo[b]fluoranthene	930		60	30
191-24-2	Benzo[g,h,i]perylene	889		98	21
207-08-9	Benzo[k]fluoranthene	709		39	18
218-01-9	Chrysene	842		44	22
53-70-3	Dibenz(a,h)anthracene	810		98	20
206-44-0	Fluoranthene	1110		98	20
86-73-7	Fluorene	599		98	20
193-39-5	Indeno[1,2,3-cd]pyrene	949		98	35
90-12-0	1-Methylnaphthalene	665		200	21
91-57-6	2-Methylnaphthalene	671		200	35
91-20-3	Naphthalene	677		200	21
85-01-8	Phenanthrene	916		39	19
129-00-0	Pyrene	1020		98	18

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\BSMA5973.i\1A050113.b\1AE01012.D
 Lab Smp Id: 680-89695-a-21-b ms
 Inj Date : 01-MAY-2013 15:47
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-21-b ms
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\A-BFASTPAHi-m.m
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 9 QC Sample: MS
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.564	2.563	(1.000)	1455383	40.0000	
* 6 Acenaphthene-d10	164		3.590	3.594	(1.000)	751774	40.0000	
* 10 Phenanthrene-d10	188		4.546	4.544	(1.000)	1217471	40.0000	
\$ 14 o-Terphenyl	230		4.845	4.844	(1.066)	31933	1.60359	429.6283
* 18 Chrysene-d12	240		6.576	6.574	(1.000)	1045215	40.0000	
* 23 Perylene-d12	264		7.666	7.659	(1.000)	1361545	40.0000	
2 Naphthalene	128		2.575	2.573	(1.004)	75596	2.07786	556.6949
3 2-Methylnaphthalene	141		2.981	2.979	(1.162)	42985	2.06080	552.1241
4 1-Methylnaphthalene	142		3.034	3.033	(1.183)	47159	2.04069	546.7350
5 Acenaphthylene	152		3.504	3.503	(0.976)	75036	1.70786	457.5639
7 Acenaphthene	154		3.611	3.610	(1.006)	38883	1.68756	452.1249
9 Fluorene	166		3.926	3.925	(1.094)	50965	1.83847	492.5563
11 Phenanthrene	178		4.562	4.560	(1.004)	99238	2.81385	753.8779
12 Anthracene	178		4.594	4.593	(1.011)	72776	1.98457	531.7012

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.728	4.726	(1.040)	63691	1.80040	482.3566
15 Fluoranthene	202	5.427	5.426	(1.194)	139152	3.41603	915.2128(R)
16 Pyrene	202	5.593	5.592	(0.851)	125232	3.14056	841.4091
17 Benzo(a)anthracene	228	6.565	6.558	(0.998)	99103	2.90338	777.8648
19 Chrysene	228	6.592	6.590	(1.002)	89593	2.58720	693.1556
20 Benzo(b)fluoranthene	252	7.383	7.381	(0.963)	118051	2.85591	765.1465
21 Benzo(k)fluoranthene	252	7.404	7.402	(0.966)	103435	2.17640	583.0957
22 Benzo(a)pyrene	252	7.612	7.605	(0.993)	100946	2.45483	657.6894
24 Indeno(1,2,3-cd)pyrene	276	8.430	8.423	(1.100)	113156	2.91435	780.8038(M)
25 Dibenzo(a,h)anthracene	278	8.456	8.450	(1.103)	89828	2.48647	666.1666
26 Benzo(g,h,i)perylene	276	8.649	8.642	(1.128)	118572	2.72861	731.0420

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1AE01012.D

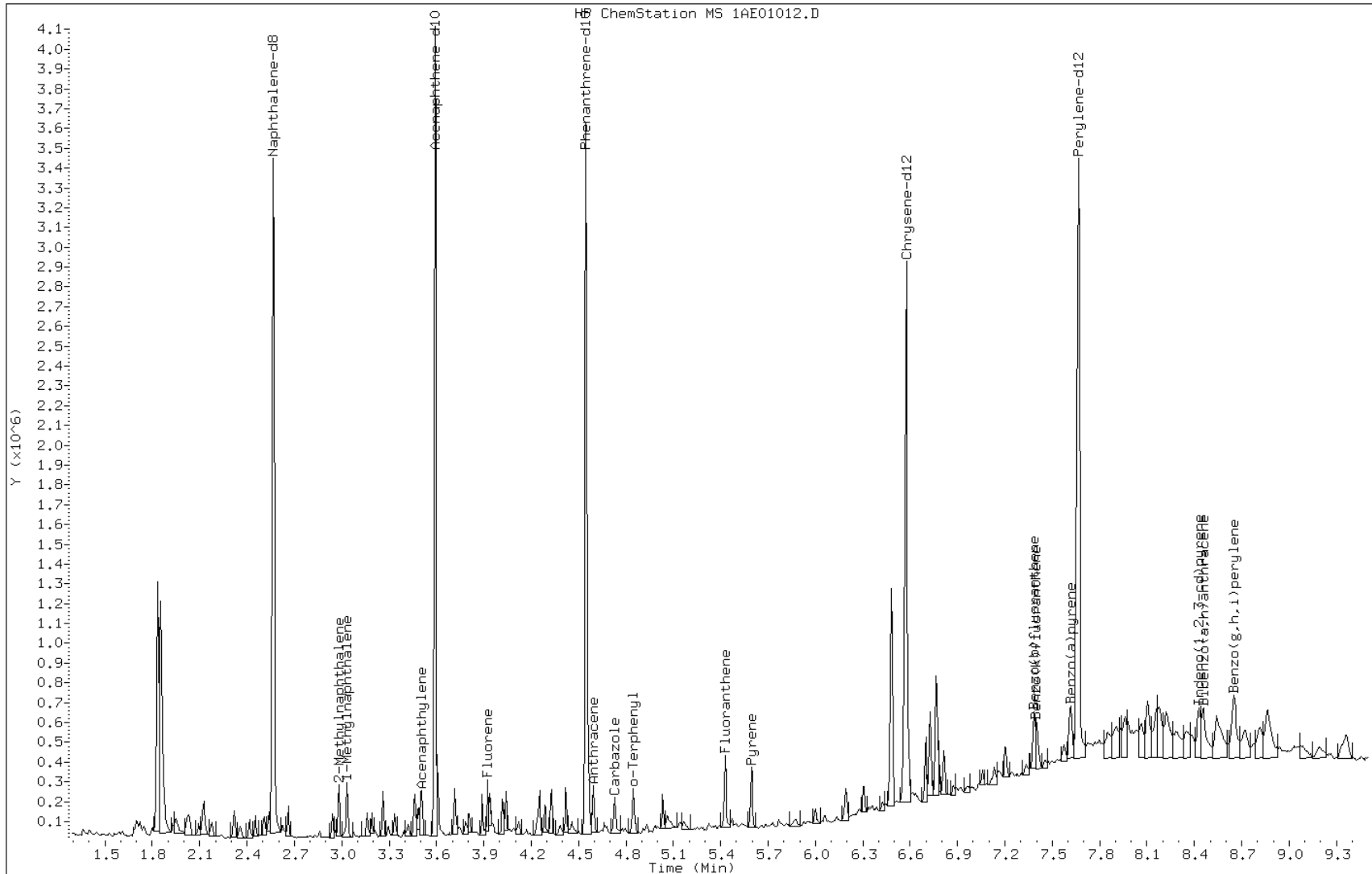
Date: 01-MAY-2013 15:47

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-b ms

Operator: SCC

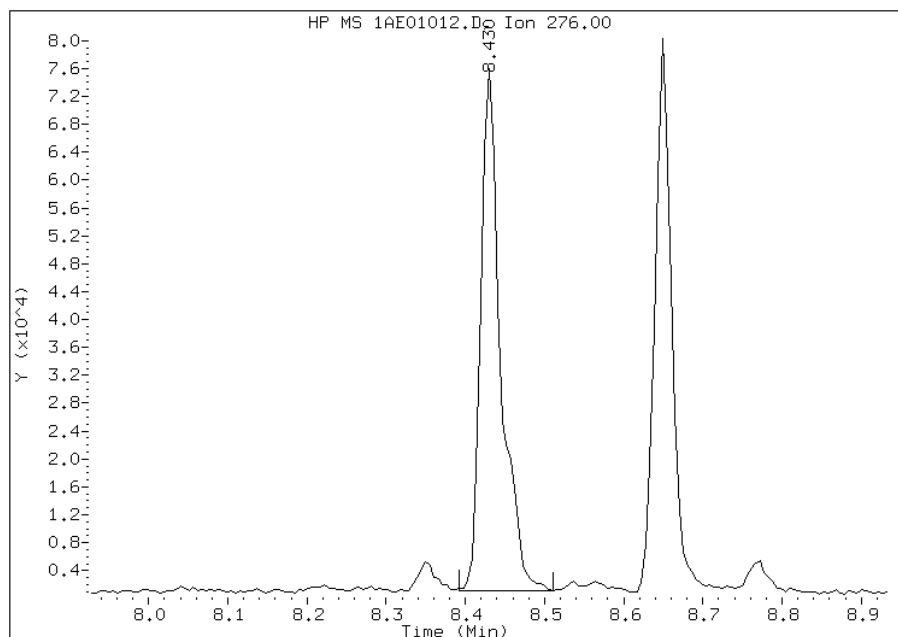


Manual Integration Report

Data File: 1AE01012.D
Inj. Date and Time: 01-MAY-2013 15:47
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/01/2013

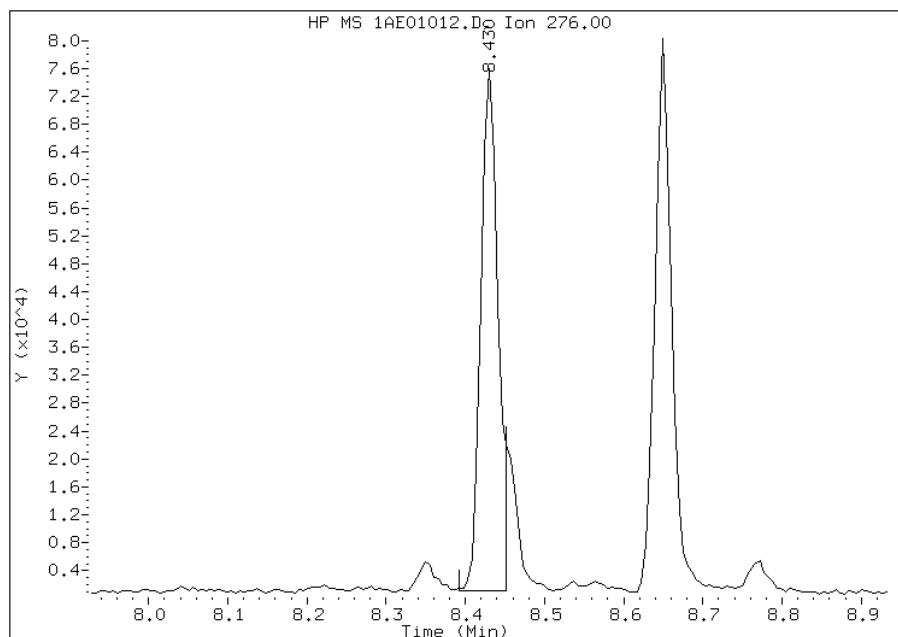
Processing Integration Results

RT: 8.43
Response: 129996
Amount: 3
Conc: 897



Manual Integration Results

RT: 8.43
Response: 113156
Amount: 3
Conc: 781



Manually Integrated By: cantins
Modification Date: 01-May-2013 16:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: 042313-RB-Sieve MS Lab Sample ID: 680-89695-35 MS
 Matrix: Water Lab File ID: 1AE01037.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 10:00
 Extract. Method: 3520C Date Extracted: 04/30/2013 16:50
 Sample wt/vol: 990(mL) Date Analyzed: 05/01/2013 22:04
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137001 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	4.16		2.0	0.51
208-96-8	Acenaphthylene	4.19		1.0	0.25
120-12-7	Anthracene	4.55		0.20	0.077
56-55-3	Benzo[a]anthracene	3.83		0.20	0.051
50-32-8	Benzo[a]pyrene	2.14		0.20	0.058
205-99-2	Benzo[b]fluoranthene	2.86		0.20	0.051
191-24-2	Benzo[g,h,i]perylene	0.732		0.51	0.10
207-08-9	Benzo[k]fluoranthene	2.27		0.20	0.058
218-01-9	Chrysene	2.95		0.20	0.070
53-70-3	Dibenz(a,h)anthracene	0.925		0.20	0.051
206-44-0	Fluoranthene	5.14		0.51	0.055
86-73-7	Fluorene	4.36		2.0	0.51
193-39-5	Indeno[1,2,3-cd]pyrene	1.20		0.20	0.051
90-12-0	1-Methylnaphthalene	4.92		2.0	0.51
91-57-6	2-Methylnaphthalene	4.74		2.0	0.51
91-20-3	Naphthalene	5.16		2.0	0.25
85-01-8	Phenanthrene	4.44		0.51	0.20
129-00-0	Pyrene	3.96		0.51	0.090

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	41		30-130

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01037.D
 Lab Smp Id: 680-89695-b-35-A ms
 Inj Date : 01-MAY-2013 22:04
 Operator : SCC
 Smp Info : 680-89695-b-35-A ms
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\1AE01037.D
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 34 QC Sample: MS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	990.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136		2.572	2.563	(1.000)	1262914	40.0000		
* 6 Acenaphthene-d10	164		3.603	3.594	(1.000)	684490	40.0000		
* 10 Phenanthrene-d10	188		4.559	4.544	(1.000)	1157709	40.0000		
\$ 14 o-Terphenyl	230		4.858	4.844	(1.066)	78150	4.12706	4.1687	
* 18 Chrysene-d12	240		6.600	6.574	(1.000)	1340928	40.0000		
* 23 Perylene-d12	264		7.700	7.659	(1.000)	1498821	40.0000		
2 Naphthalene	128		2.582	2.573	(1.004)	161260	5.10797	5.1595(R)	
3 2-Methylnaphthalene	141		2.988	2.979	(1.162)	84987	4.69543	4.7428(R)	
4 1-Methylnaphthalene	142		3.042	3.033	(1.183)	97630	4.86854	4.9177(R)	
5 Acenaphthylene	152		3.512	3.503	(0.975)	165939	4.14811	4.1900	
7 Acenaphthene	154		3.619	3.610	(1.004)	86484	4.12244	4.1640(R)	
9 Fluorene	166		3.934	3.925	(1.092)	108869	4.31328	4.3568(R)	
11 Phenanthrene	178		4.575	4.560	(1.004)	147281	4.39166	4.4360(R)	
12 Anthracene	178		4.607	4.593	(1.011)	157112	4.50555	4.5510	
13 Carbazole	167		4.746	4.726	(1.041)	148478	4.41379	4.4583(R)	
15 Fluoranthene	202		5.446	5.426	(1.194)	197293	5.09335	5.1447(R)	
16 Pyrene	202		5.611	5.592	(0.850)	200473	3.91875	3.9583(R)	

Compounds	QUANT SIG		CONCENTRATIONS				
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL (ug/l)
-----	----	----	-----	-----	-----	-----	-----
17 Benzo(a)anthracene	228	6.589	6.558	(0.998)	165849	3.78730	3.8255(R)
19 Chrysene	228	6.616	6.590	(1.002)	129836	2.92248	2.9520(R)
20 Benzo(b)fluoranthene	252	7.412	7.381	(0.963)	128631	2.82685	2.8554(RH)
21 Benzo(k)fluoranthene	252	7.428	7.402	(0.965)	117607	2.24795	2.2706(R)
22 Benzo(a)pyrene	252	7.641	7.605	(0.992)	96040	2.12161	2.1430
24 Indeno(1,2,3-cd)pyrene	276	8.464	8.423	(1.099)	50566	1.18306	1.1950(RM)
25 Dibenzo(a,h)anthracene	278	8.491	8.450	(1.103)	36421	0.91581	0.9250(R)
26 Benzo(g,h,i)perylene	276	8.694	8.642	(1.129)	34656	0.72447	0.7317(R)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File: 1AE01037.D

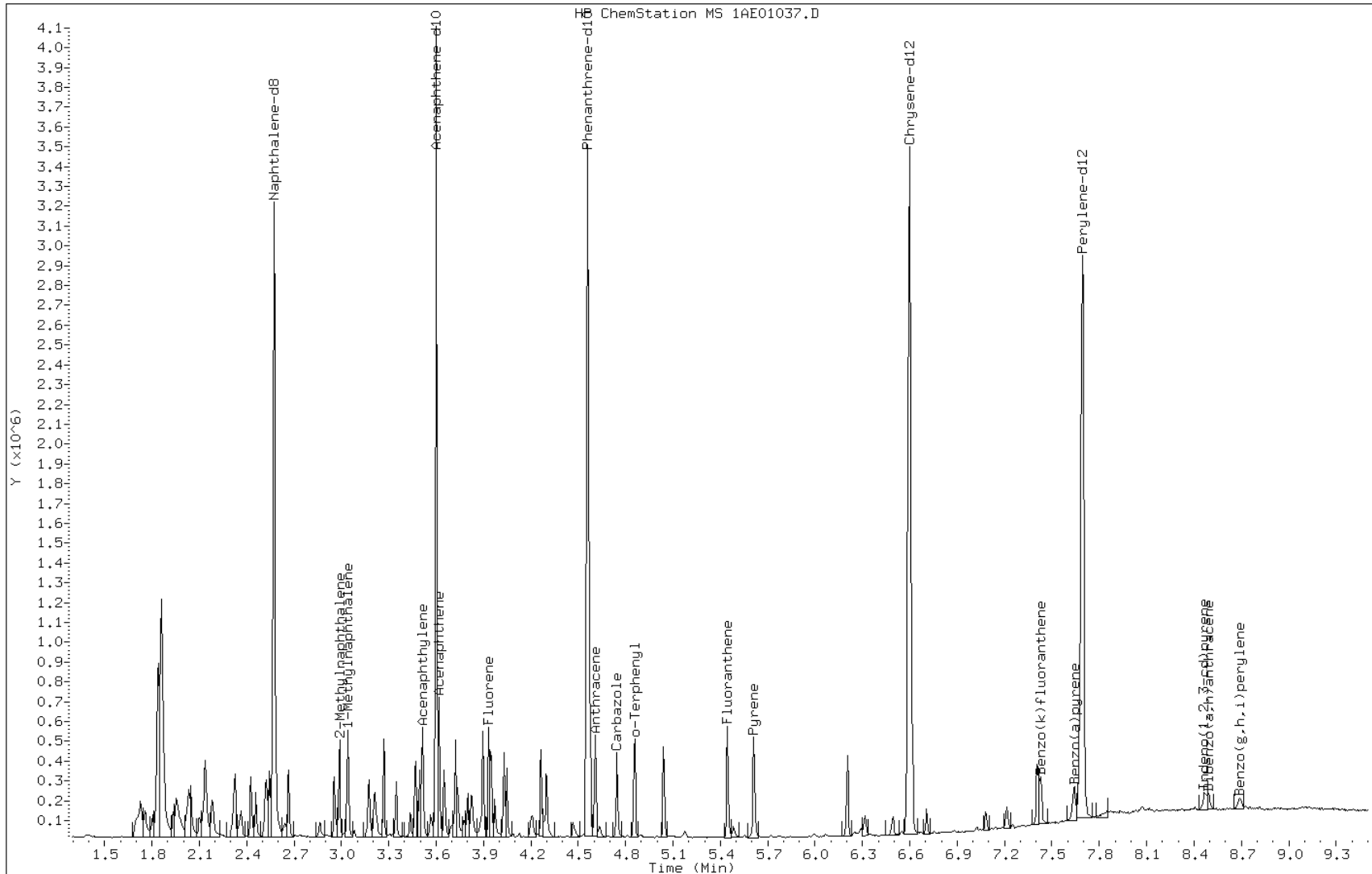
Date: 01-MAY-2013 22:04

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89695-b-35-A ms

Operator: SCC

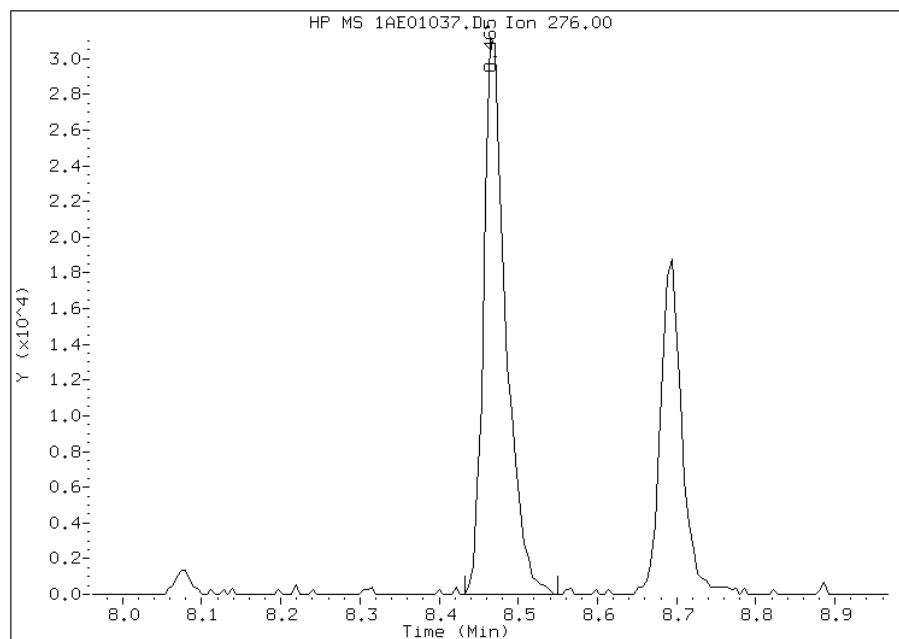


Manual Integration Report

Data File: 1AE01037.D
Inj. Date and Time: 01-MAY-2013 22:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/05/2013

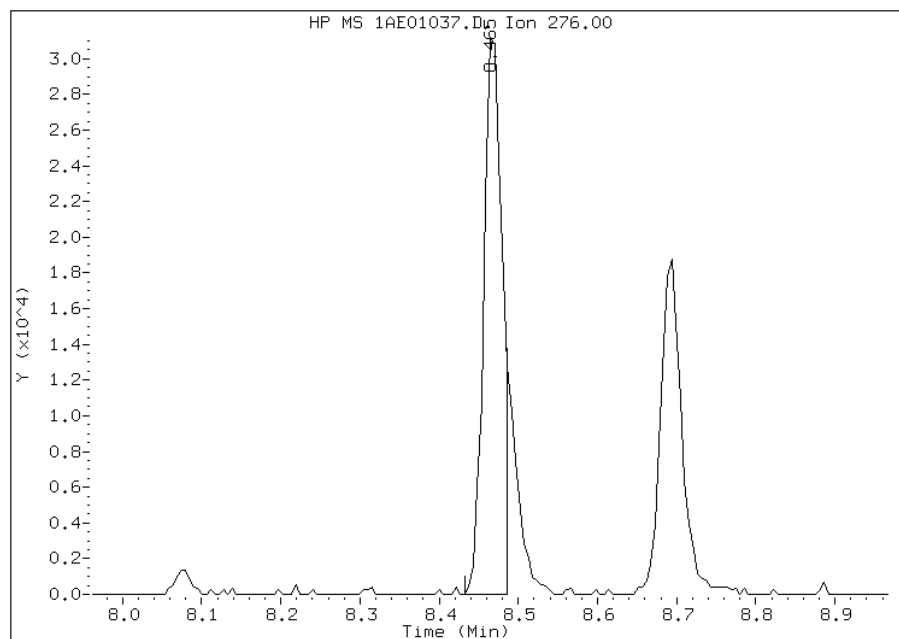
Processing Integration Results

RT: 8.46
Response: 60225
Amount: 1
Conc: 1



Manual Integration Results

RT: 8.46
Response: 50566
Amount: 1
Conc: 1



Manually Integrated By: cantins
Modification Date: 05-May-2013 16:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: _____ Lab Sample ID: 680-89695-A-4-C MSD
 Matrix: Solid Lab File ID: 1AD29009.D
 Analysis Method: 8270C LL Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/26/2013 07:28
 Sample wt/vol: 14.95(g) Date Analyzed: 04/29/2013 14:09
 Con. Extract Vol.: 1(mL) Dilution Factor: 1
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 16.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 136961 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	360		120	24
208-96-8	Acenaphthylene	366		48	6.0
120-12-7	Anthracene	414		10	5.0
56-55-3	Benzo[a]anthracene	496		9.6	4.7
50-32-8	Benzo[a]pyrene	459		12	6.2
205-99-2	Benzo[b]fluoranthene	619		15	7.3
191-24-2	Benzo[g,h,i]perylene	500		24	5.3
207-08-9	Benzo[k]fluoranthene	373		9.6	4.3
218-01-9	Chrysene	531		11	5.4
53-70-3	Dibenz(a,h)anthracene	497		24	4.9
206-44-0	Fluoranthene	599		24	4.8
86-73-7	Fluorene	363		24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	537		24	8.5
90-12-0	1-Methylnaphthalene	474		48	5.3
91-57-6	2-Methylnaphthalene	504		48	8.5
91-20-3	Naphthalene	528		48	5.3
85-01-8	Phenanthrene	570		9.6	4.7
129-00-0	Pyrene	555		24	4.4

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

TestAmerica Laboratories

Semivolatiles 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\1AD29009.D
 Lab Smp Id: 680-89695-a-4-c msd
 Inj Date : 29-APR-2013 14:09
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-4-c msd
 Misc Info :
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A042913.b\a-bFASTPAHi-m.m
 Meth Date : 29-Apr-2013 12:46 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 9 QC Sample: MSD
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

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

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.578	2.572	(1.000)	2041703	40.0000	
* 6 Acenaphthene-d10	164		3.609	3.603	(1.000)	1062859	40.0000	
* 10 Phenanthrene-d10	188		4.560	4.554	(1.000)	1728645	40.0000	
\$ 14 o-Terphenyl	230		4.854	4.859	(1.064)	130026	4.59871	307.6060
* 18 Chrysene-d12	240		6.585	6.574	(1.000)	1643288	40.0000	
* 23 Perylene-d12	264		7.675	7.663	(1.000)	2068854	40.0000	
2 Naphthalene	128		2.589	2.583	(1.004)	337638	6.61537	442.4998
3 2-Methylnaphthalene	141		2.989	2.989	(1.160)	184581	6.30799	421.9394
4 1-Methylnaphthalene	142		3.048	3.048	(1.182)	192501	5.93786	397.1812
5 Acenaphthylene	152		3.513	3.513	(0.973)	284394	4.57840	306.2477
7 Acenaphthene	154		3.620	3.619	(1.003)	146687	4.50300	301.2038
9 Fluorene	166		3.935	3.935	(1.090)	178023	4.54225	303.8297
11 Phenanthrene	178		4.571	4.570	(1.002)	357568	7.14059	477.6316
12 Anthracene	178		4.603	4.608	(1.009)	269694	5.17969	346.4672

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.736	4.736	(1.039)	233930	4.65724	311.5211(R)
15 Fluoranthene	202	5.436	5.436	(1.192)	433626	7.49723	501.4866
16 Pyrene	202	5.602	5.601	(0.851)	436044	6.95527	465.2354
17 Benzo(a)anthracene	228	6.574	6.563	(0.998)	333175	6.20843	415.2793
19 Chrysene	228	6.595	6.595	(1.002)	361964	6.64835	444.7056
20 Benzo(b)fluoranthene	252	7.391	7.380	(0.963)	487118	7.75552	518.7641
21 Benzo(k)fluoranthene	252	7.407	7.407	(0.965)	337534	4.67403	312.6444
22 Benzo(a)pyrene	252	7.616	7.610	(0.992)	358924	5.74429	384.2333
24 Indeno(1,2,3-cd)pyrene	276	8.438	8.427	(1.100)	396664	6.72340	449.7259(M)
25 Dibenzo(a,h)anthracene	278	8.460	8.454	(1.102)	341480	6.22069	416.0994(M)
26 Benzo(g,h,i)perylene	276	8.657	8.646	(1.128)	413463	6.26180	418.8491

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

Data File: 1AD29009.D

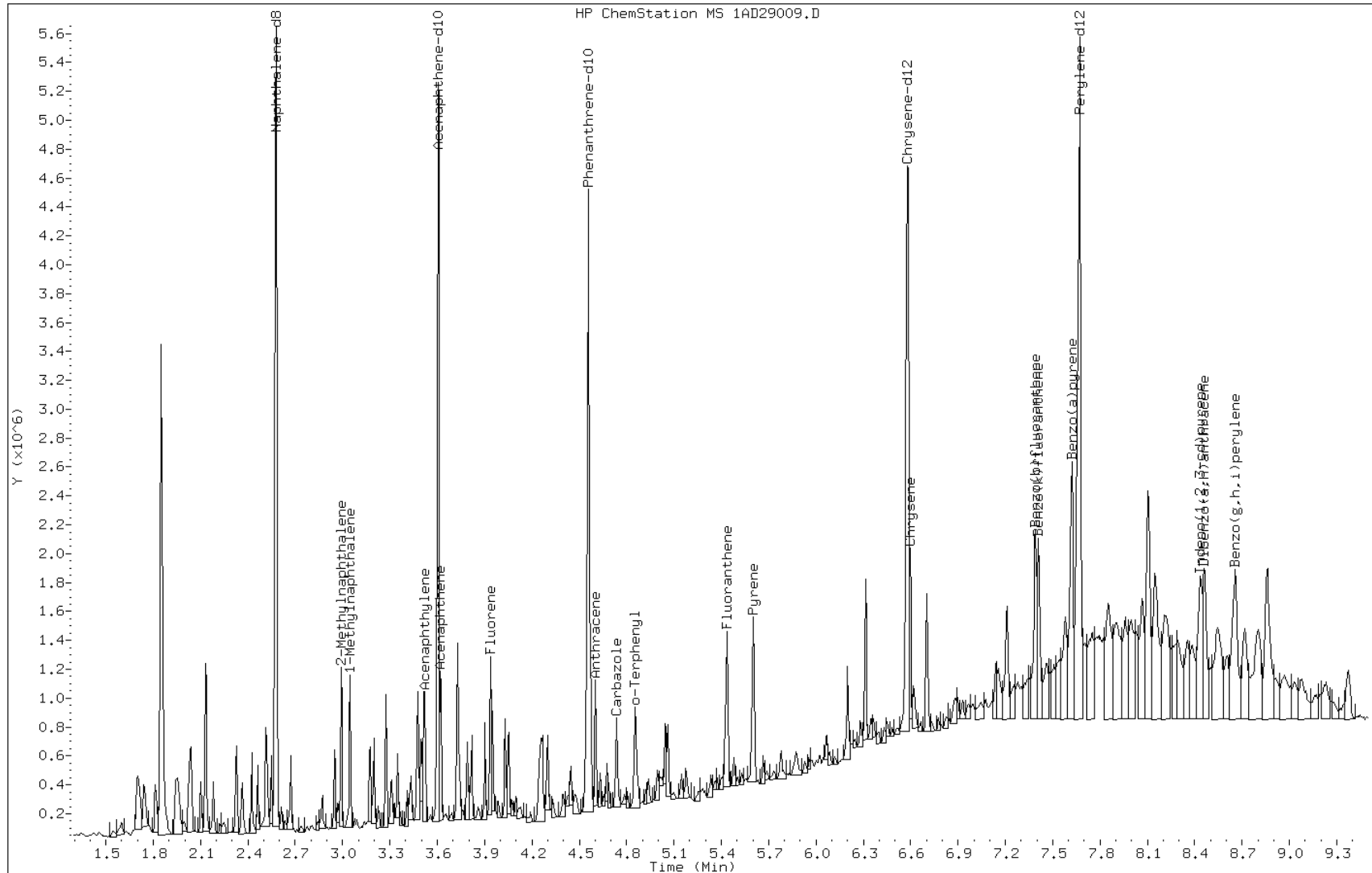
Date: 29-APR-2013 14:09

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89695-a-4-c msd

Operator: SCC

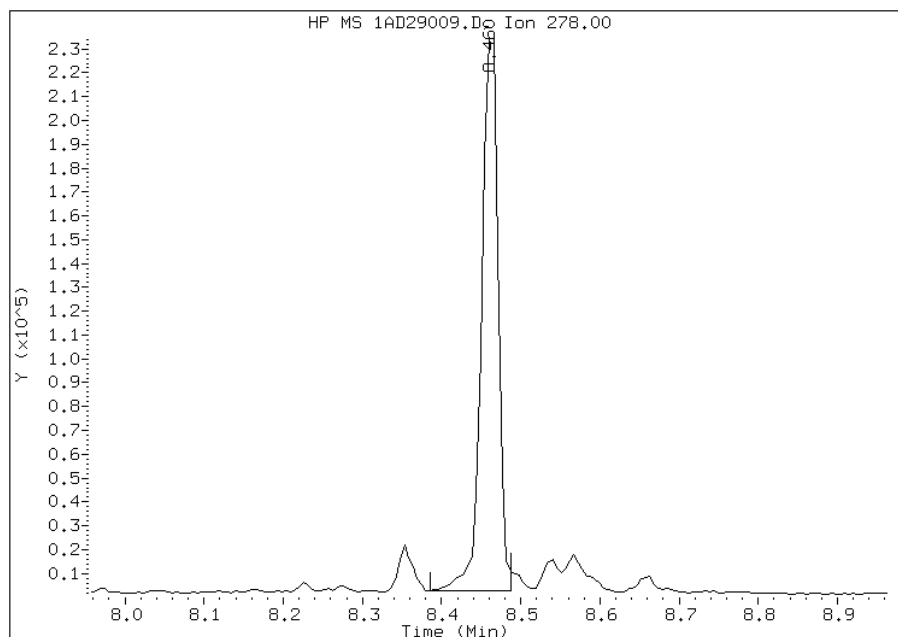


Manual Integration Report

Data File: 1AD29009.D
Inj. Date and Time: 29-APR-2013 14:09
Instrument ID: BSMA5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 05/02/2013

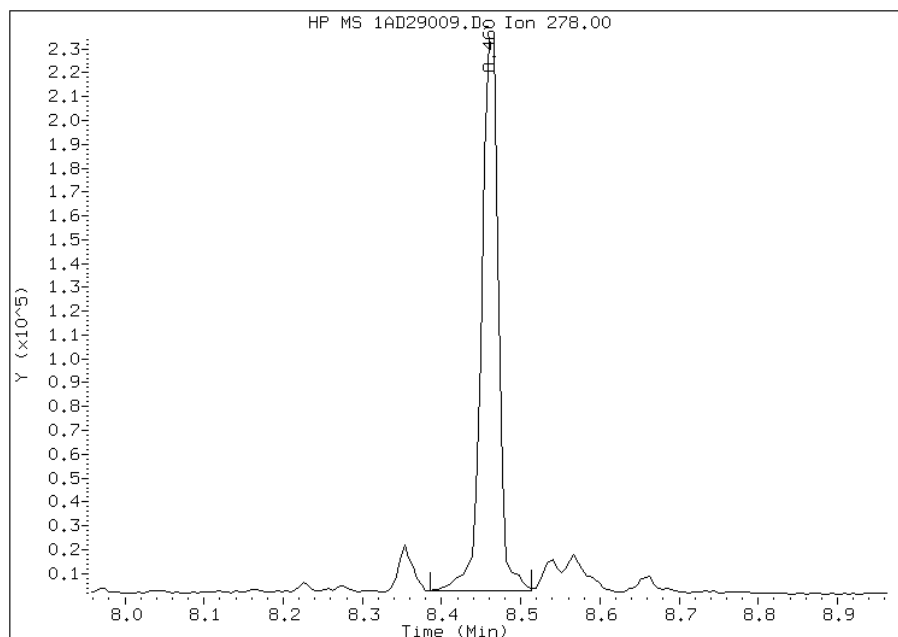
Processing Integration Results

RT: 8.46
Response: 335194
Amount: 6
Conc: 408



Manual Integration Results

RT: 8.46
Response: 341480
Amount: 6
Conc: 416



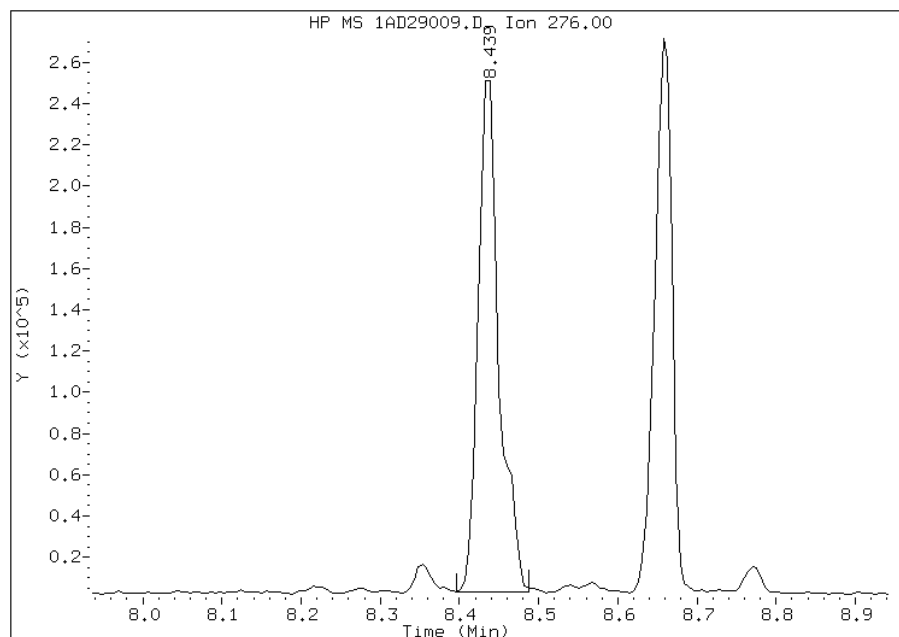
Manually Integrated By: cantins
Modification Date: 01-May-2013 15:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AD29009.D
Inj. Date and Time: 29-APR-2013 14:09
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/02/2013

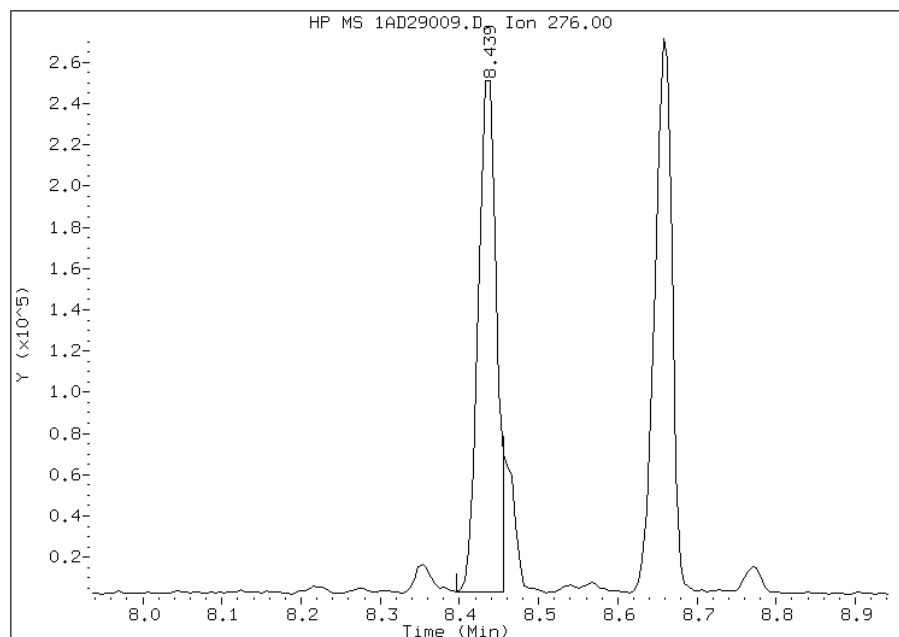
Processing Integration Results

RT: 8.44
Response: 450201
Amount: 8
Conc: 510



Manual Integration Results

RT: 8.44
Response: 396664
Amount: 7
Conc: 450



Manually Integrated By: cantins
Modification Date: 01-May-2013 15:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2
 SDG No.: 68089695-2
 Client Sample ID: CV1158A-CS MSD Lab Sample ID: 680-89695-21 MSD
 Matrix: Solid Lab File ID: 1AE01013.D
 Analysis Method: 8270C LL Date Collected: 04/23/2013 14:45
 Extract. Method: 3546 Date Extracted: 04/29/2013 14:27
 Sample wt/vol: 15.13(g) Date Analyzed: 05/01/2013 16:02
 Con. Extract Vol.: 1(mL) Dilution Factor: 4
 Injection Volume: 1(uL) Level: (low/med) Low
 % Moisture: 17.7 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 137001 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	423	J	480	96
208-96-8	Acenaphthylene	419		190	24
120-12-7	Anthracene	472		40	20
56-55-3	Benzo[a]anthracene	673		39	19
50-32-8	Benzo[a]pyrene	591		50	25
205-99-2	Benzo[b]fluoranthene	672		59	29
191-24-2	Benzo[g,h,i]perylene	649		96	21
207-08-9	Benzo[k]fluoranthene	518		39	17
218-01-9	Chrysene	574		43	22
53-70-3	Dibenz(a,h)anthracene	635		96	20
206-44-0	Fluoranthene	723		96	19
86-73-7	Fluorene	431		96	20
193-39-5	Indeno[1,2,3-cd]pyrene	650		96	34
90-12-0	1-Methylnaphthalene	502		190	21
91-57-6	2-Methylnaphthalene	503		190	34
91-20-3	Naphthalene	476		190	21
85-01-8	Phenanthrene	616		39	19
129-00-0	Pyrene	651		96	18

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\BSMA5973.i\1A050113.b\1AE01013.D
 Lab Smp Id: 680-89695-a-21-c ms
 Inj Date : 01-MAY-2013 16:02
 Operator : SCC Inst ID: BSMA5973.i
 Smp Info : 680-89695-a-21-c msd
 Misc Info : 4.0
 Comment :
 Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A050113.b\a-bFASTPAHi-m.m
 Meth Date : 01-May-2013 14:44 cantins Quant Type: ISTD
 Cal Date : 26-APR-2013 11:34 Cal File: 1AD26009.D
 Als bottle: 10 QC Sample: MSD
 Dil Factor: 4.00000
 Integrator: HP RTE Compound Sublist: pah.sub
 Target Version: 4.14
 Processing Host: TAM1000

Concentration Formula:

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv)
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/ml)	(ug/Kg)
* 1 Naphthalene-d8	136		2.564	2.563	(1.000)	1519033	40.0000	
* 6 Acenaphthene-d10	164		3.595	3.594	(1.000)	797282	40.0000	
* 10 Phenanthrene-d10	188		4.546	4.544	(1.000)	1302080	40.0000	
\$ 14 o-Terphenyl	230		4.845	4.844	(1.066)	33094	1.55390	410.8131
* 18 Chrysene-d12	240		6.576	6.574	(1.000)	1160479	40.0000	
* 23 Perylene-d12	264		7.671	7.659	(1.000)	1432756	40.0000	
2 Naphthalene	128		2.575	2.573	(1.004)	56280	1.48212	391.8353
3 2-Methylnaphthalene	141		2.981	2.979	(1.162)	34074	1.56514	413.7841
4 1-Methylnaphthalene	142		3.034	3.033	(1.183)	37645	1.56074	412.6203
5 Acenaphthylene	152		3.504	3.503	(0.975)	60715	1.30303	344.4882
7 Acenaphthene	154		3.611	3.610	(1.004)	32170	1.31651	348.0534
9 Fluorene	166		3.921	3.925	(1.091)	39445	1.34169	354.7088
11 Phenanthrene	178		4.562	4.560	(1.004)	72366	1.91857	507.2235
12 Anthracene	178		4.594	4.593	(1.011)	57639	1.46966	388.5418

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.728	4.726	(1.040)	53895	1.42449	376.6001
15 Fluoranthene	202	5.428	5.426	(1.194)	98023	2.24999	594.8431
16 Pyrene	202	5.593	5.592	(0.851)	89692	2.02588	535.5929
17 Benzo(a)anthracene	228	6.566	6.558	(0.998)	79421	2.09566	554.0410
19 Chrysene	228	6.592	6.590	(1.002)	68639	1.78524	471.9727
20 Benzo(b)fluoranthene	252	7.383	7.381	(0.962)	90971	2.09140	552.9152
21 Benzo(k)fluoranthene	252	7.404	7.402	(0.965)	80681	1.61326	426.5051
22 Benzo(a)pyrene	252	7.613	7.605	(0.992)	79571	1.83885	486.1465
24 Indeno(1,2,3-cd)pyrene	276	8.435	8.423	(1.100)	82708	2.02428	535.1709(M)
25 Dibenzo(a,h)anthracene	278	8.462	8.450	(1.103)	75184	1.97768	522.8501
26 Benzo(g,h,i)perylene	276	8.654	8.642	(1.128)	92375	2.02011	534.0664

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AE01013.D

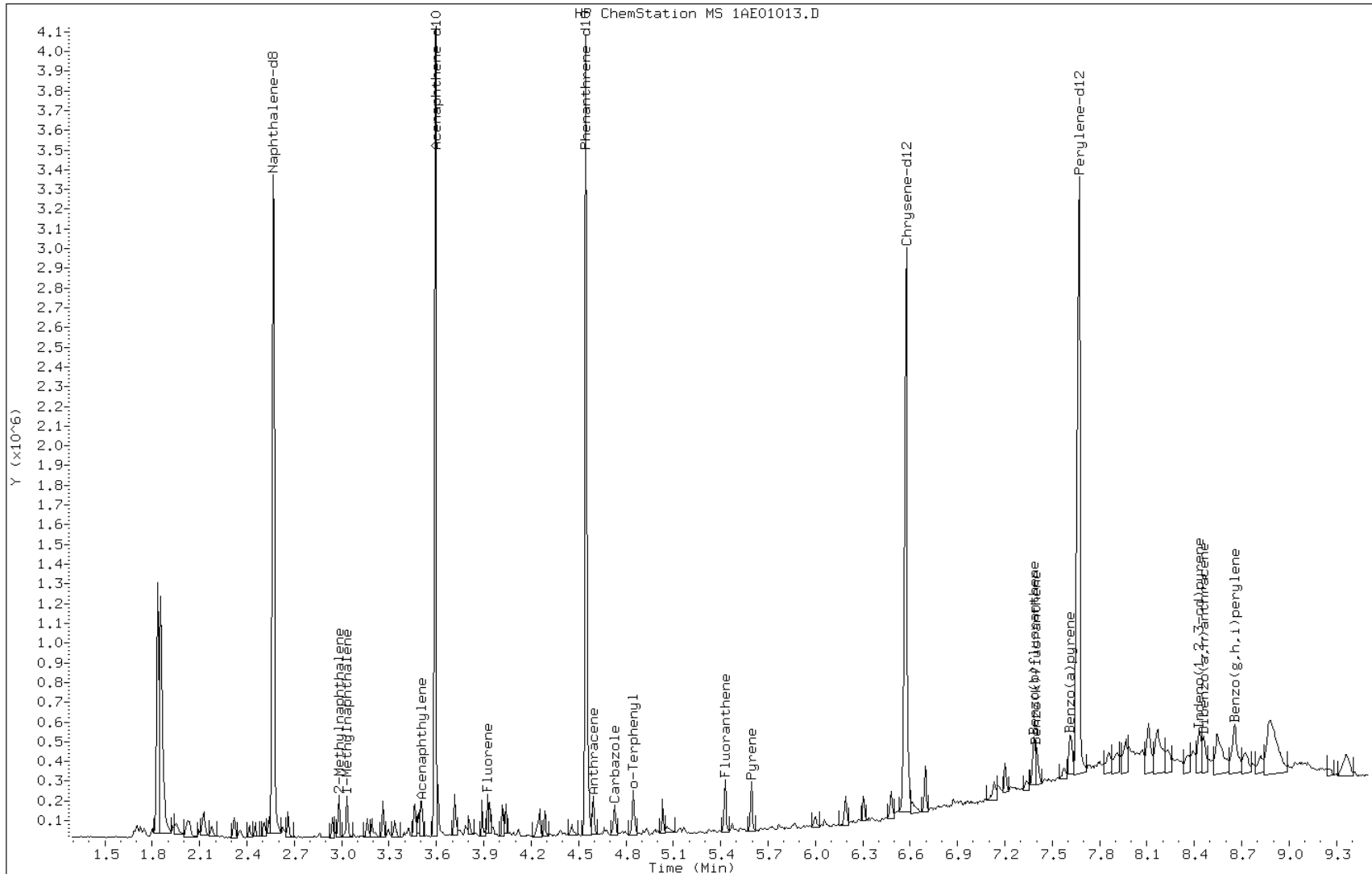
Date: 01-MAY-2013 16:02

Client ID:

Instrument: BSMA5973.i

Sample Info: 680-89695-a-21-c msd

Operator: SCC

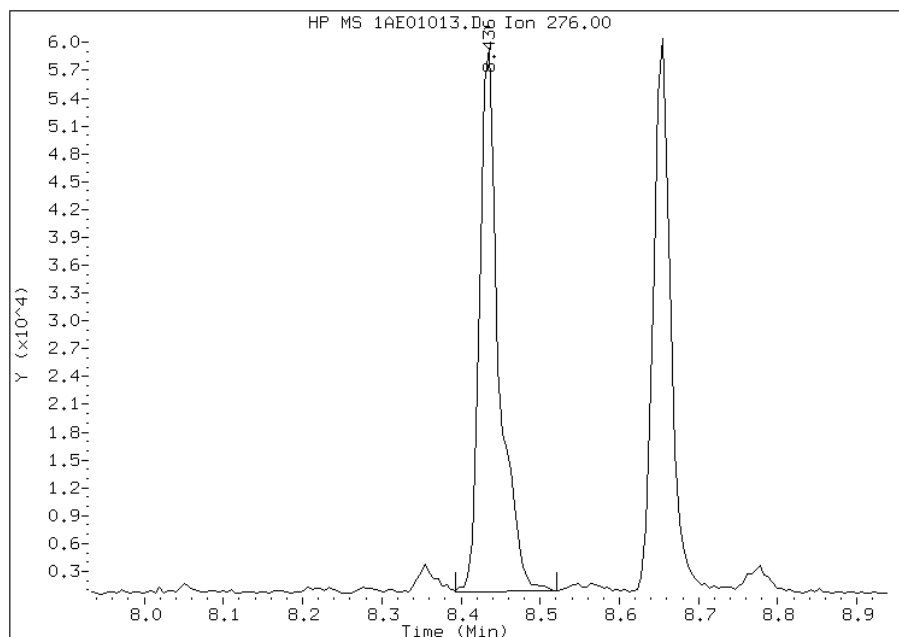


Manual Integration Report

Data File: 1AE01013.D
Inj. Date and Time: 01-MAY-2013 16:02
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 05/01/2013

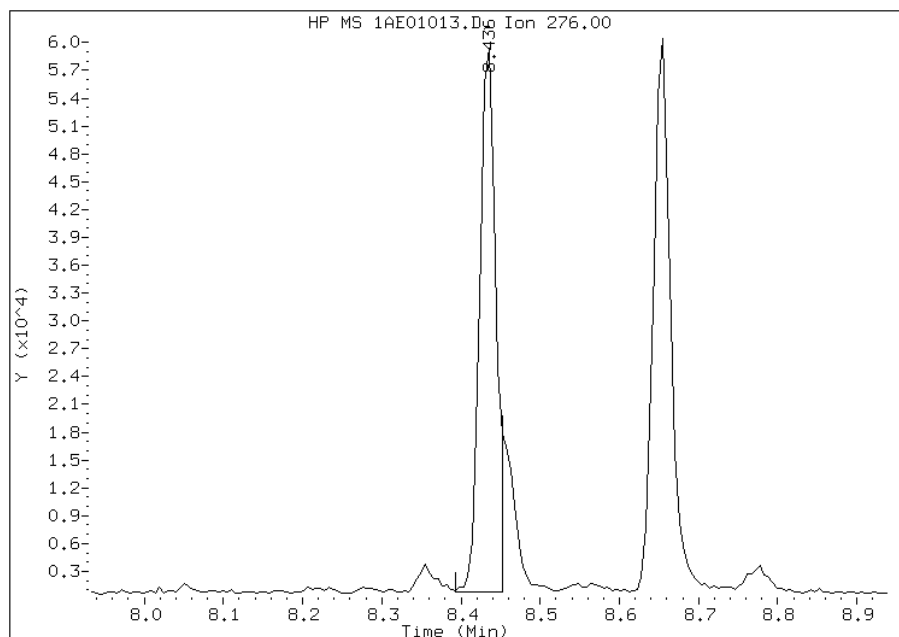
Processing Integration Results

RT: 8.44
Response: 98707
Amount: 2
Conc: 639



Manual Integration Results

RT: 8.44
Response: 82708
Amount: 2
Conc: 535



Manually Integrated By: cantins
Modification Date: 01-May-2013 16:21
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89695-2SDG No.: 68089695-2Instrument ID: BSMA5973Start Date: 04/26/2013 09:20Analysis Batch Number: 136892End Date: 04/26/2013 19:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/26/2013 09:20	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 09:35	1		DB-5MS 250 (um)
DFTPP 660-136892/2		04/26/2013 09:50	1	1AD26002.D	DB-5MS 250 (um)
IC 660-136892/3		04/26/2013 10:03	1	1AD26003.D	DB-5MS 250 (um)
IC 660-136892/4		04/26/2013 10:18	1	1AD26004.D	DB-5MS 250 (um)
IC 660-136892/5		04/26/2013 10:33	1	1AD26005.D	DB-5MS 250 (um)
IC 660-136892/6		04/26/2013 10:48	1	1AD26006.D	DB-5MS 250 (um)
ICIS 660-136892/7		04/26/2013 11:03	1	1AD26007.D	DB-5MS 250 (um)
IC 660-136892/8		04/26/2013 11:19	1	1AD26008.D	DB-5MS 250 (um)
IC 660-136892/9		04/26/2013 11:34	1	1AD26009.D	DB-5MS 250 (um)
ICV 660-136892/10		04/26/2013 11:49	1	1AD26010.D	DB-5MS 250 (um)
ZZZZZ		04/26/2013 13:49	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 14:04	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 14:19	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 14:34	4		DB-5MS 250 (um)
ZZZZZ		04/26/2013 14:49	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 15:04	4		DB-5MS 250 (um)
ZZZZZ		04/26/2013 15:19	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 15:34	4		DB-5MS 250 (um)
ZZZZZ		04/26/2013 15:49	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 16:04	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 16:19	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 16:34	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 16:49	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 17:04	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 17:19	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 17:34	4		DB-5MS 250 (um)
ZZZZZ		04/26/2013 17:49	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 18:04	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 18:19	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 18:34	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 18:49	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 19:04	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 19:19	1		DB-5MS 250 (um)
ZZZZZ		04/26/2013 19:35	4		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89695-2SDG No.: 68089695-2Instrument ID: BSMA5973Start Date: 04/29/2013 11:42Analysis Batch Number: 136961End Date: 04/29/2013 19:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/29/2013 11:42	1		DB-5MS 250 (um)
ZZZZZ		04/29/2013 11:57	1		DB-5MS 250 (um)
DFTPP 660-136961/2		04/29/2013 12:12	1	1AD29002.D	DB-5MS 250 (um)
CCVIS 660-136961/3		04/29/2013 12:29	1	1AD29003.D	DB-5MS 250 (um)
ZZZZZ		04/29/2013 12:50	1		DB-5MS 250 (um)
MB 660-136855/1-A		04/29/2013 13:08	1	1AD29005.D	DB-5MS 250 (um)
LCS 660-136855/2-A		04/29/2013 13:24	1	1AD29006.D	DB-5MS 250 (um)
ZZZZZ		04/29/2013 13:39	1		DB-5MS 250 (um)
680-89695-A-4-B MS		04/29/2013 13:54	1	1AD29008.D	DB-5MS 250 (um)
680-89695-A-4-C MSD		04/29/2013 14:09	1	1AD29009.D	DB-5MS 250 (um)
ZZZZZ		04/29/2013 14:24	1		DB-5MS 250 (um)
ZZZZZ		04/29/2013 14:39	1		DB-5MS 250 (um)
ZZZZZ		04/29/2013 14:54	4		DB-5MS 250 (um)
ZZZZZ		04/29/2013 15:09	4		DB-5MS 250 (um)
ZZZZZ		04/29/2013 15:24	4		DB-5MS 250 (um)
ZZZZZ		04/29/2013 15:39	1		DB-5MS 250 (um)
ZZZZZ		04/29/2013 15:54	4		DB-5MS 250 (um)
ZZZZZ		04/29/2013 16:09	4		DB-5MS 250 (um)
ZZZZZ		04/29/2013 16:24	4		DB-5MS 250 (um)
ZZZZZ		04/29/2013 16:39	4		DB-5MS 250 (um)
ZZZZZ		04/29/2013 16:54	1		DB-5MS 250 (um)
ZZZZZ		04/29/2013 17:09	1		DB-5MS 250 (um)
ZZZZZ		04/29/2013 17:24	1		DB-5MS 250 (um)
ZZZZZ		04/29/2013 17:39	1		DB-5MS 250 (um)
680-89695-22	CV1158B-CS	04/29/2013 17:55	1	1AD29024.D	DB-5MS 250 (um)
680-89695-23	CV1235A-CS	04/29/2013 18:10	4	1AD29025.D	DB-5MS 250 (um)
680-89695-24	CV1235B-CS	04/29/2013 18:25	1	1AD29026.D	DB-5MS 250 (um)
680-89695-25	CV1235C-CS	04/29/2013 18:40	4	1AD29027.D	DB-5MS 250 (um)
680-89695-26	CV1235D-CS	04/29/2013 18:55	4	1AD29028.D	DB-5MS 250 (um)
ZZZZZ		04/29/2013 19:10	1		DB-5MS 250 (um)
ZZZZZ		04/29/2013 19:25	4		DB-5MS 250 (um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica TampaJob No.: 680-89695-2SDG No.: 68089695-2Instrument ID: BSMA5973Start Date: 05/01/2013 09:58Analysis Batch Number: 137001End Date: 05/01/2013 22:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/01/2013 09:58	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 10:14	1		DB-5MS 250 (um)
DFTPP 660-137001/2		05/01/2013 10:29	1		DB-5MS 250 (um)
CCVIS 660-137001/3		05/01/2013 10:49	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 13:31	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 13:46	1		DB-5MS 250 (um)
DFTPP 660-137001/6		05/01/2013 14:01	1	1AE01005.D	DB-5MS 250 (um)
CCVIS 660-137001/7		05/01/2013 14:15	1	1AE01006.D	DB-5MS 250 (um)
ZZZZZ		05/01/2013 14:30	1		DB-5MS 250 (um)
MB 660-136938/1-A		05/01/2013 14:46	1	1AE01008.D	DB-5MS 250 (um)
LCS 660-136938/2-A		05/01/2013 15:02	1	1AE01009.D	DB-5MS 250 (um)
ZZZZZ		05/01/2013 15:17	4		DB-5MS 250 (um)
680-89695-21	CV1158A-CS	05/01/2013 15:32	4	1AE01011.D	DB-5MS 250 (um)
680-89695-21 MS	CV1158A-CS MS	05/01/2013 15:47	4	1AE01012.D	DB-5MS 250 (um)
680-89695-21 MSD	CV1158A-CS MSD	05/01/2013 16:02	4	1AE01013.D	DB-5MS 250 (um)
ZZZZZ		05/01/2013 16:17	20		DB-5MS 250 (um)
680-89695-27	CV1235D-CSD	05/01/2013 16:33	1	1AE01015.D	DB-5MS 250 (um)
680-89695-28	CV1324A-CS	05/01/2013 16:48	4	1AE01016.D	DB-5MS 250 (um)
680-89695-29	CV0686A-CS-SP	05/01/2013 17:03	1	1AE01017.D	DB-5MS 250 (um)
680-89695-30	CV0686B-CS-SP	05/01/2013 17:18	1	1AE01018.D	DB-5MS 250 (um)
680-89695-31	CV0686C-GS-SP	05/01/2013 17:33	4	1AE01019.D	DB-5MS 250 (um)
ZZZZZ		05/01/2013 17:48	4		DB-5MS 250 (um)
ZZZZZ		05/01/2013 18:03	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 18:18	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 18:33	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 18:48	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 19:03	4		DB-5MS 250 (um)
ZZZZZ		05/01/2013 19:18	4		DB-5MS 250 (um)
ZZZZZ		05/01/2013 19:33	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 19:48	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 20:03	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 20:18	1		DB-5MS 250 (um)
ZZZZZ		05/01/2013 20:33	4		DB-5MS 250 (um)
ZZZZZ		05/01/2013 20:48	4		DB-5MS 250 (um)
MB 660-136981/1-A		05/01/2013 21:03	1	1AE01033.D	DB-5MS 250 (um)
LCS 660-136981/2-A		05/01/2013 21:18	1	1AE01034.D	DB-5MS 250 (um)
LCSD 660-136981/3-A		05/01/2013 21:33	1	1AE01035.D	DB-5MS 250 (um)
680-89695-35	042313-RB-Sieve	05/01/2013 21:49	1	1AE01036.D	DB-5MS 250 (um)
680-89695-35 MS	042313-RB-Sieve MS	05/01/2013 22:04	1	1AE01037.D	DB-5MS 250 (um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2SDG No.: 68089695-2Batch Number: 136855 Batch Start Date: 04/26/13 07:28 Batch Analyst:Batch Method: 3546 Batch End Date: 04/26/13 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00179
MB 660-136855/1		3546, 8270C LL		15.03 g	1 mL		1 mL
LCS 660-136855/2		3546, 8270C LL		15.24 g	1 mL	1 mL	1 mL
680-89695-A-4 MS		3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL
680-89695-A-4 MSD		3546, 8270C LL	T	14.95 g	1 mL	1 mL	1 mL
680-89695-A-22	CV1158B-CS	3546, 8270C LL	T	15.03 g	1 mL		1 mL
680-89695-A-23	CV1235A-CS	3546, 8270C LL	T	15.17 g	1 mL		1 mL
680-89695-A-24	CV1235B-CS	3546, 8270C LL	T	15.02 g	1 mL		1 mL
680-89695-A-25	CV1235C-CS	3546, 8270C LL	T	14.97 g	1 mL		1 mL
680-89695-A-26	CV1235D-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL

Batch Notes

Acetone Lot #	EX-ACETON BOT 52
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 56
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL 56
MeCl2/Acetone Lot #	DCM/ACETON 73/74
Microwave Start Time	9:00 4/26/13
Microwave Stop Time	9:35 4/26/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	EX-OTTOWA SAND 16
Person's name who did the prep	AG
SOP Number	TP-EX014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EXLLSURINT 179
Water Bath ID	TURBOVAP2 #1-3
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the this reagent.

8270C LL

George, Abraham

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2SDG No.: 68089695-2Batch Number: 136938 Batch Start Date: 04/29/13 14:27 Batch Analyst:Batch Method: 3546 Batch End Date: 04/30/13 12:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00021	EXLLSURINT 00180
MB 660-136938/1		3546, 8270C LL		15.06 g	1 mL		1 mL
LCS 660-136938/2		3546, 8270C LL		15.00 g	1 mL	1 mL	1 mL
680-89695-A-21	CV1158A-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL
680-89695-A-21 MS	CV1158A-CS	3546, 8270C LL	T	14.93 g	1 mL	1 mL	1 mL
680-89695-A-21 MSD	CV1158A-CS	3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL
680-89695-A-27	CV1235D-CSD	3546, 8270C LL	T	14.99 g	1 mL		1 mL
680-89695-A-28	CV1324A-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL
680-89695-A-29	CV0686A-CS-SP	3546, 8270C LL	T	15.11 g	1 mL		1 mL
680-89695-A-30	CV0686B-CS-SP	3546, 8270C LL	T	14.91 g	1 mL		1 mL
680-89695-A-31	CV0686C-GS-SP	3546, 8270C LL	T	14.89 g	1 mL		1 mL

Batch Notes

Acetone Lot #	EX-ACETON BOT 52
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	RYAN
Exchange Solvent Lot #	EX-MC CYCL 56
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCl2 Lot #	EX-MC CYCL 56
MeCl2/Acetone Lot #	DCM/ACETON 74
Microwave Start Time	16:35 4/29/13
Microwave Stop Time	17:10 4/29/13
Na2SO4 Lot Number	EX-NA2S04A 66
Ottawa Sand Lot #	EX-OTTOWA SAND 16
Person's name who did the prep	RYAN
SOP Number	TP-EX014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EXLLSURINT 180
Water Bath ID	TURBOVAP2 #1-3
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the this reagent.

8270C LL

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GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2SDG No.: 68089695-2Batch Number: 136981 Batch Start Date: 04/30/13 16:50 Batch Analyst:Batch Method: 3520C Batch End Date: 05/01/13 08:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 660-136981/1		3520C, 8270C LL		1000 mL	1 mL	8	<2
LCS 660-136981/2		3520C, 8270C LL		1000 mL	1 mL	8	<2
LCS 660-136981/3		3520C, 8270C LL		1000 mL	1 mL	8	<2
680-89695-A-35	042313-RB-Sieve	3520C, 8270C LL	T	910 mL	1 mL	7	<2
680-89695-B-35 MS	042313-RB-Sieve	3520C, 8270C LL	T	990 mL	1 mL	7	<2

Batch Notes

Acid used for pH adjustment	10h2s04
Acid used for pH adjust Lot #	EX 10H2S04 _6
Batch Comment	RUSH
Concentration End Time	7.15/5/1/13
Concentration Start Time	6.00/5/1/13
Person's name who did the concentration	AG
Time the first extraction ended 24hr	21.15/4/30/13
Time the first extraction started 24 hr	17.15/4/30/13
pH Paper Lot Number	HC 273036
Prep Solvent Lot #	EX MC CYCL _56
Prep Solvent Name	DCM
Prep Solvent Volume Used	210 mL
Person's name who did the prep	SAUREL
Person's name who witnessed reagent drop	AG
Sufficient volume for MS/MSD?	MS ONLY
Water Bath ID	TURBOVAP2#1
Water Bath Temperature	40 C Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the this reagent.

8270C LL

Cerome, Saurel

EX-625LV I SPK	EXLLSURINT
00021	00181
1 mL	1 mL
1 mL	1 mL
1 mL	1 mL
1 mL	1 mL

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89695-2

SDG No.: 68089695-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
<u>CV1158A-CS</u>	<u>680-89695-21</u>
<u>CV1158B-CS</u>	<u>680-89695-22</u>
<u>CV1235A-CS</u>	<u>680-89695-23</u>
<u>CV1235B-CS</u>	<u>680-89695-24</u>
<u>CV1235C-CS</u>	<u>680-89695-25</u>
<u>CV1235D-CS</u>	<u>680-89695-26</u>
<u>CV1235D-CSD</u>	<u>680-89695-27</u>
<u>CV1324A-CS</u>	<u>680-89695-28</u>
<u>CV0686A-CS-SP</u>	<u>680-89695-29</u>
<u>CV0686B-CS-SP</u>	<u>680-89695-30</u>
<u>CV0686C-GS-SP</u>	<u>680-89695-31</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89695-2
SDG Number: 68089695-2
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-89695-2
SDG Number: 68089695-2
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89695-2

SDG No.: 68089695-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/29/2013 06:14 End Date: 04/29/2013 06:14

Lab Sample ID	D / F	Type	Time	Analytes															
				M o i s t															
ZZZZZZ			06:14																
ZZZZZZ			06:14																
ZZZZZZ			06:14																
ZZZZZZ			06:14																
ZZZZZZ			06:14																
ZZZZZZ			06:14																
ZZZZZZ			06:14																
ZZZZZZ			06:14																
680-89695-25	1	T	06:14	X															
ZZZZZZ			06:14																
ZZZZZZ			06:14																
680-89695-22	1	T	06:14	X															
ZZZZZZ			06:14																
ZZZZZZ			06:14																
ZZZZZZ			06:14																
ZZZZZZ			06:14																
680-89695-23	1	T	06:14	X															
ZZZZZZ			06:14																
680-89695-27	1	T	06:14	X															
ZZZZZZ			06:14																
680-89695-28	1	T	06:14	X															
ZZZZZZ			06:14																
680-89695-26	1	T	06:14	X															
ZZZZZZ			06:14																
ZZZZZZ			06:14																
680-89695-30	1	T	06:14	X															
ZZZZZZ			06:14																
ZZZZZZ			06:14																
ZZZZZZ			06:14																
ZZZZZZ			06:14																
ZZZZZZ			06:14																
680-89695-31	1	T	06:14	X															
ZZZZZZ			06:14																
680-89695-24	1	T	06:14	X															
680-89695-29	1	T	06:14	X															
ZZZZZZ			06:14																
680-89695-A-4 MS	1	T	06:14	X															
680-89695-A-4 MSD	1	T	06:14	X															
680-89695-21	1	T	06:14	X															

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-89695-2

SDG No.: 68089695-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/29/2013 06:14 End Date: 04/29/2013 06:14

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M o i s t															
680-89695-21 MS	1	T	06:14	X															
680-89695-21 MSD	1	T	06:14	X															
ZZZZZZ			06:14																
ZZZZZZ			06:14																

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-89695-2

SDG No.: 68089695-2

Batch Number: 136902 Batch Start Date: 04/29/13 06:14 Batch Analyst:

Batch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry
680-89695-A-25	CV1235C-CS	Moisture	T	10	0 g	4.80 g	3.93 g
680-89695-A-22	CV1158B-CS	Moisture	T	13	0 g	4.62 g	3.70 g
680-89695-A-23	CV1235A-CS	Moisture	T	19	0 g	4.52 g	3.75 g
680-89695-A-27	CV1235D-CSD	Moisture	T	21	0 g	4.56 g	3.87 g
680-89695-A-28	CV1324A-CS	Moisture	T	23	0 g	4.22 g	3.17 g
680-89695-A-26	CV1235D-CS	Moisture	T	25	0 g	4.55 g	3.75 g
680-89695-A-30	CV0686B-CS-SP	Moisture	T	28	0 g	4.79 g	4.05 g
680-89695-A-31	CV0686C-GS-SP	Moisture	T	35	0 g	4.29 g	3.47 g
680-89695-A-24	CV1235B-CS	Moisture	T	37	0 g	4.70 g	3.76 g
680-89695-A-29	CV0686A-CS-SP	Moisture	T	38	0 g	4.58 g	3.45 g
680-89695-A-4 MS		Moisture	T	39	0 g	4.81 g	4.03 g
680-89695-A-4 MSD		Moisture	T	39	0 g	4.81 g	4.03 g
680-89695-A-21	CV1158A-CS	Moisture	T	40	0 g	4.57 g	3.76 g
680-89695-A-21 MS	CV1158A-CS	Moisture	T	40	0 g	4.57 g	3.76 g
680-89695-A-21 MSD	CV1158A-CS	Moisture	T	40	0 g	4.57 g	3.76 g

Batch Notes

Balance ID	2 No Unit
Date samples were placed in the oven	4.29.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the this reagent.

Moisture

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Shipping and Receiving Documents

Serial Number 64615

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Test Am - Tampa

Phone:
Fax:

PROJECT REFERENCE 35th Ave Removal	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) AL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 2	OF 3
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(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE:
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

ALL PAH
ROGAS Metals

PRESERVATIVE

STANDARD REPORT DELIVERY
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE)
100% TAT
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	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	
4-23-13	0853	CN0427A-CS-SP	C	X			X											
	0903	CN0427B-CS-SP	C	X			X	X										
	0931	CN0718A-CS-SP	C	X			X											
	0944	CN0718B-CS-SP	C	X			X											
	1246	HP0157A-CS-SP	C	X			X											
	1322	CN0575A-CS-SP	C	X			X	X										
	1351	CN0927A-CS-SP	C	X			X											
	1403	CN0927B-CS-SP	C	X			X											
	1445	CV1158A-CS	C	X			X											
	1500	CV1158B-CS	C	X			X											
	1310	CV1235A-CS	C	X			X											
	1320	CV1235B-CS	C	X			X											

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-24-13	TIME 1330	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-25-13	TIME 0840	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 6680-89695	LABORATORY REMARKS
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Test Am Tampa

Phone:
Fax:

THE LEADER IN ENVIRONMENTAL TESTING

PROJECT REFERENCE 35th Ave Removal	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) FL	MATRIX TYPE:	REQUIRED ANALYSIS	PAGE 3	OF 3
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(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LL-PAH
RCA & Metals

PRESERVATIVE

STANDARD REPORT DELIVERY

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE)

10 day TAT
DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT: _____

COMPANY CONTRACTING THIS WORK (if applicable)

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															
4-23-13	1330	CV1235C-CS	C	X			X																
	1340	CV1235D-CS	C	X			X																
	1340	CV1235D-CSD	C	X			X																
	1420	CV1324A-CS	C	X			X																
	1459	CV0686A-CS-SP	C	X			X																
	1503	CV0686B-CS-SP	C	X			X																
	1522	CV0686C-GS-SP	G	X			X																
4-22-13	1455	CV1329A-CS (sieve)	C	X																			
4-23-13	1322	CV0575A-CS-SP (sieve)	C	X																			
	0903	CV0427B-CS-SP (sieve)	C	X																			
4-23-13	1000	042313-RB-Sieve		X			X	X															

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-24-13	TIME 1330	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-25-13	TIME 0840	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-89695	LABORATORY REMARKS
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Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-2

SDG Number: 68089695-2

Login Number: 89695
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.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-2

SDG Number: 68089695-2

Login Number: 89695
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 04/25/13 01:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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.	False	

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: 680-89695-2

TestAmerica Sample Delivery Group: 68089695-2

Client Project/Site: 35th Avenue Superfund Site

For:

Oneida Total Integrated Enterprises LLC

1220 Kennestone Circle

Suite 106

Marietta, Georgia 30060

Attn: Ms. Limari F Krebs



Authorized for release by:

5/7/2013 9:55:53 AM

Bernard Kirkland, Project Manager I

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Designee for

Lisa Harvey, Project Manager II

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

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

TestAmerica Job ID: 680-89695-2
SDG: 68089695-2

Job ID: 680-89695-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-89695-2

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

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

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

RECEIPT

The samples were received on 04/25/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 5.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV1158A-CS (680-89695-21), CV1158B-CS (680-89695-22), CV1235A-CS (680-89695-23), CV1235B-CS (680-89695-24), CV1235C-CS (680-89695-25), CV1235D-CS (680-89695-26), CV1235D-CSD (680-89695-27), CV1324A-CS (680-89695-28), CV0686A-CS-SP (680-89695-29), CV0686B-CS-SP (680-89695-30) and CV0686C-GS-SP (680-89695-31) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/26/2013 and 04/29/2013 and analyzed on 04/29/2013 and 05/01/2013.

Samples CV1158A-CS (680-89695-21)[4X], CV1235A-CS (680-89695-23)[4X], CV1235C-CS (680-89695-25)[4X], CV1235D-CS (680-89695-26)[4X], CV1324A-CS (680-89695-28)[4X] and CV0686C-GS-SP (680-89695-31)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

o-Terphenyl recovered outside the surrogate recovery criteria for CV1235B-CS (680-89695-24).

Several analytes recovered outside the recovery criteria for the MSD of sample CV1158A-CS (680-89695-21) in batch 660-137001. Fluoranthene and Pyrene exceeded the rpd limit.

Several analytes recovered outside the recovery criteria low for the MS/MSD of sample 680-89695-4 in batch 660-136961.

No other difficulties were encountered during the SVOAs analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)-Waters

Sample 042313-RB-Sieve (680-89695-35) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 04/30/2013 and analyzed on 05/01/2013.

Several analytes recovered outside the recovery criteria low for the MS of sample 042313-RB-SieveMS (680-89695-35) in batch 660-137001.

No other difficulties were encountered during the semivolatiles analysis.

Case Narrative

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

TestAmerica Job ID: 680-89695-2
SDG: 68089695-2

Job ID: 680-89695-2 (Continued)

Laboratory: TestAmerica Savannah (Continued)

All other quality control parameters were within the acceptance limits.

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Sample Summary

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

TestAmerica Job ID: 680-89695-2
SDG: 68089695-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-89695-21	CV1158A-CS	Solid	04/23/13 14:45	04/25/13 08:40
680-89695-22	CV1158B-CS	Solid	04/23/13 15:00	04/25/13 08:40
680-89695-23	CV1235A-CS	Solid	04/23/13 13:10	04/25/13 08:40
680-89695-24	CV1235B-CS	Solid	04/23/13 13:20	04/25/13 08:40
680-89695-25	CV1235C-CS	Solid	04/23/13 13:30	04/25/13 08:40
680-89695-26	CV1235D-CS	Solid	04/23/13 13:40	04/25/13 08:40
680-89695-27	CV1235D-CSD	Solid	04/23/13 13:40	04/25/13 08:40
680-89695-28	CV1324A-CS	Solid	04/23/13 14:20	04/25/13 08:40
680-89695-29	CV0686A-CS-SP	Solid	04/23/13 14:59	04/25/13 08:40
680-89695-30	CV0686B-CS-SP	Solid	04/23/13 15:03	04/25/13 08:40
680-89695-31	CV0686C-GS-SP	Solid	04/23/13 15:22	04/25/13 08:40
680-89695-35	042313-RB-Sieve	Water	04/23/13 10:00	04/25/13 08:40

Method Summary

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

TestAmerica Job ID: 680-89695-2
SDG: 68089695-2

Method	Method Description	Protocol	Laboratory
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL TAM
Moisture	Percent Moisture	EPA	TAL TAM

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427



Definitions/Glossary

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

TestAmerica Job ID: 680-89695-2
SDG: 68089695-2

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
X	Surrogate is outside 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: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV1158A-CS

Lab Sample ID: 680-89695-21

Date Collected: 04/23/13 14:45

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 82.3

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	97	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Acenaphthylene	190	U	190	24	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Anthracene	56		41	20	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Benzo[a]anthracene	240		39	19	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Benzo[a]pyrene	210	F	51	25	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Benzo[b]fluoranthene	310		59	30	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Benzo[g,h,i]perylene	200		97	21	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Benzo[k]fluoranthene	140		39	18	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Chrysene	270	F	44	22	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Dibenz(a,h)anthracene	43	J	97	20	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Fluoranthene	410	F	97	19	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Fluorene	23	J	97	20	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Indeno[1,2,3-cd]pyrene	190		97	35	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
1-Methylnaphthalene	56	J	190	21	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
2-Methylnaphthalene	69	J	190	35	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Naphthalene	58	J	190	21	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Phenanthrene	270		39	19	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4
Pyrene	380	F	97	18	ug/Kg	☼	04/29/13 14:27	05/01/13 15:32	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	55		30 - 130	04/29/13 14:27	05/01/13 15:32	4

Client Sample ID: CV1158B-CS

Lab Sample ID: 680-89695-22

Date Collected: 04/23/13 15:00

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 80.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Acenaphthylene	57		50	6.2	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Anthracene	140		10	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Benzo[a]anthracene	290		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Benzo[a]pyrene	260		13	6.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Benzo[b]fluoranthene	460		15	7.6	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Benzo[g,h,i]perylene	180		25	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Benzo[k]fluoranthene	140		10	4.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Chrysene	330		11	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Dibenz(a,h)anthracene	58		25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Fluoranthene	730		25	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Fluorene	49		25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Indeno[1,2,3-cd]pyrene	200		25	8.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
1-Methylnaphthalene	44	J	50	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
2-Methylnaphthalene	50		50	8.8	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Naphthalene	53		50	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Phenanthrene	560		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1
Pyrene	470		25	4.6	ug/Kg	☼	04/26/13 07:28	04/29/13 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	46		30 - 130	04/26/13 07:28	04/29/13 17:55	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV1235A-CS

Lab Sample ID: 680-89695-23

Date Collected: 04/23/13 13:10

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	95	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Acenaphthylene	46	J	190	24	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Anthracene	54		40	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Benzo[a]anthracene	110		38	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Benzo[a]pyrene	100		50	25	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Benzo[b]fluoranthene	180		58	29	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Benzo[g,h,i]perylene	81	J	95	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Benzo[k]fluoranthene	49		38	17	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Chrysene	120		43	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Dibenz(a,h)anthracene	20	J	95	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Fluoranthene	190		95	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Fluorene	95	U	95	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Indeno[1,2,3-cd]pyrene	82	J	95	34	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
1-Methylnaphthalene	36	J	190	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
2-Methylnaphthalene	190	U	190	34	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Naphthalene	24	J	190	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Phenanthrene	110		38	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Pyrene	120		95	18	ug/Kg	☼	04/26/13 07:28	04/29/13 18:10	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				04/26/13 07:28	04/29/13 18:10	4

Client Sample ID: CV1235B-CS

Lab Sample ID: 680-89695-24

Date Collected: 04/23/13 13:20

Matrix: Solid

Date Received: 04/25/13 08:40

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	☼	04/26/13 07:28	04/29/13 18:25	1
Acenaphthylene	53		50	6.2	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Anthracene	84		10	5.2	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Benzo[a]anthracene	130		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Benzo[a]pyrene	110		13	6.5	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Benzo[b]fluoranthene	210		15	7.6	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Benzo[g,h,i]perylene	75		25	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Benzo[k]fluoranthene	74		10	4.5	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Chrysene	160		11	5.6	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Dibenz(a,h)anthracene	30		25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Fluoranthene	250		25	5.0	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Fluorene	17	J	25	5.1	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Indeno[1,2,3-cd]pyrene	80		25	8.9	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
1-Methylnaphthalene	170		50	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
2-Methylnaphthalene	160		50	8.9	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Naphthalene	110		50	5.5	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Phenanthrene	240		10	4.9	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Pyrene	170		25	4.6	ug/Kg	☼	04/26/13 07:28	04/29/13 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	21	X	30 - 130				04/26/13 07:28	04/29/13 18:25	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV1235C-CS

Lab Sample ID: 680-89695-25

Date Collected: 04/23/13 13:30

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 81.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	490	U	490	98	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Acenaphthylene	36	J	200	24	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Anthracene	48		41	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Benzo[a]anthracene	150		39	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Benzo[a]pyrene	140		51	25	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Benzo[b]fluoranthene	240		60	30	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Benzo[g,h,i]perylene	97	J	98	22	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Benzo[k]fluoranthene	74		39	18	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Chrysene	170		44	22	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Dibenz(a,h)anthracene	27	J	98	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Fluoranthene	220		98	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Fluorene	98	U	98	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Indeno[1,2,3-cd]pyrene	100		98	35	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
1-Methylnaphthalene	59	J	200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
2-Methylnaphthalene	72	J	200	35	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Naphthalene	70	J	200	22	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Phenanthrene	150		39	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Pyrene	150		98	18	ug/Kg	☼	04/26/13 07:28	04/29/13 18:40	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				04/26/13 07:28	04/29/13 18:40	4

Client Sample ID: CV1235D-CS

Lab Sample ID: 680-89695-26

Date Collected: 04/23/13 13:40

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 82.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	480	U	480	97	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Acenaphthylene	77	J	190	24	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Anthracene	120		41	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Benzo[a]anthracene	200		39	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Benzo[a]pyrene	210		50	25	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Benzo[b]fluoranthene	470		59	30	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Benzo[g,h,i]perylene	160		97	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Benzo[k]fluoranthene	100		39	17	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Chrysene	320		44	22	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Dibenz(a,h)anthracene	49	J	97	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Fluoranthene	440		97	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Fluorene	97	U	97	20	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Indeno[1,2,3-cd]pyrene	170		97	34	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
1-Methylnaphthalene	100	J	190	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
2-Methylnaphthalene	120	J	190	34	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Naphthalene	95	J	190	21	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Phenanthrene	280		39	19	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Pyrene	290		97	18	ug/Kg	☼	04/26/13 07:28	04/29/13 18:55	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	57		30 - 130				04/26/13 07:28	04/29/13 18:55	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV1235D-CSD

Lab Sample ID: 680-89695-27

Date Collected: 04/23/13 13:40

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Acenaphthylene	94		47	5.9	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Anthracene	120		9.9	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Benzo[a]anthracene	320		9.4	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Benzo[a]pyrene	460		12	6.1	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Benzo[b]fluoranthene	910		14	7.2	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Benzo[g,h,i]perylene	330		24	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Benzo[k]fluoranthene	250		9.4	4.2	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Chrysene	390		11	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Dibenz(a,h)anthracene	130		24	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Fluoranthene	390		24	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Fluorene	15	J	24	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Indeno[1,2,3-cd]pyrene	350		24	8.4	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
1-Methylnaphthalene	84		47	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
2-Methylnaphthalene	110		47	8.4	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Naphthalene	150		47	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Phenanthrene	180		9.4	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Pyrene	380		24	4.4	ug/Kg	☼	04/29/13 14:27	05/01/13 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	51		30 - 130				04/29/13 14:27	05/01/13 16:33	1

Client Sample ID: CV1324A-CS

Lab Sample ID: 680-89695-28

Date Collected: 04/23/13 14:20

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 75.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Acenaphthylene	210	U	210	27	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Anthracene	49		45	22	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Benzo[a]anthracene	170		42	21	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Benzo[a]pyrene	140		55	28	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Benzo[b]fluoranthene	260		65	32	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Benzo[g,h,i]perylene	130		110	23	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Benzo[k]fluoranthene	91		42	19	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Chrysene	170		48	24	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Dibenz(a,h)anthracene	37	J	110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Fluoranthene	220		110	21	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Fluorene	110	U	110	22	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Indeno[1,2,3-cd]pyrene	120		110	38	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
1-Methylnaphthalene	46	J	210	23	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
2-Methylnaphthalene	48	J	210	38	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Naphthalene	45	J	210	23	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Phenanthrene	110		42	21	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Pyrene	170		110	20	ug/Kg	☼	04/29/13 14:27	05/01/13 16:48	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	40		30 - 130				04/29/13 14:27	05/01/13 16:48	4

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV0686A-CS-SP

Lab Sample ID: 680-89695-29

Date Collected: 04/23/13 14:59

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 75.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Acenaphthylene	48	J	53	6.6	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Anthracene	73		11	5.5	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Benzo[a]anthracene	200		11	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Benzo[a]pyrene	170		14	6.9	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Benzo[b]fluoranthene	330		16	8.0	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Benzo[g,h,i]perylene	130		26	5.8	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Benzo[k]fluoranthene	83		11	4.7	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Chrysene	300		12	5.9	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Dibenz(a,h)anthracene	50		26	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Fluoranthene	280		26	5.3	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Fluorene	30		26	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Indeno[1,2,3-cd]pyrene	140		26	9.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
1-Methylnaphthalene	130		53	5.8	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
2-Methylnaphthalene	160		53	9.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Naphthalene	170		53	5.8	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Phenanthrene	240		11	5.1	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Pyrene	190		26	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	44		30 - 130				04/29/13 14:27	05/01/13 17:03	1

Client Sample ID: CV0686B-CS-SP

Lab Sample ID: 680-89695-30

Date Collected: 04/23/13 15:03

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Acenaphthylene	48	U	48	5.9	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Anthracene	10	U	10	5.0	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Benzo[a]anthracene	24		9.5	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Benzo[a]pyrene	19		12	6.2	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Benzo[b]fluoranthene	32		15	7.3	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Benzo[g,h,i]perylene	17	J	24	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Benzo[k]fluoranthene	12		9.5	4.3	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Chrysene	26		11	5.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Dibenz(a,h)anthracene	5.0	J	24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Fluoranthene	22	J	24	4.8	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Fluorene	24	U	24	4.9	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Indeno[1,2,3-cd]pyrene	16	J	24	8.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
1-Methylnaphthalene	19	J	48	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
2-Methylnaphthalene	22	J	48	8.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Naphthalene	20	J	48	5.2	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Phenanthrene	28		9.5	4.6	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Pyrene	19	J	24	4.4	ug/Kg	☼	04/29/13 14:27	05/01/13 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	51		30 - 130				04/29/13 14:27	05/01/13 17:18	1

TestAmerica Savannah

Client Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV0686C-GS-SP

Lab Sample ID: 680-89695-31

Date Collected: 04/23/13 15:22

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 80.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	100	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Acenaphthylene	46	J	200	25	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Anthracene	85		42	21	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Benzo[a]anthracene	220		40	19	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Benzo[a]pyrene	180		52	26	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Benzo[b]fluoranthene	270		61	30	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Benzo[g,h,i]perylene	160		100	22	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Benzo[k]fluoranthene	68		40	18	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Chrysene	280		45	22	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Dibenz(a,h)anthracene	44	J	100	20	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Fluoranthene	310		100	20	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Fluorene	49	J	100	20	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Indeno[1,2,3-cd]pyrene	120		100	35	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
1-Methylnaphthalene	180	J	200	22	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
2-Methylnaphthalene	220		200	35	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Naphthalene	260		200	22	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Phenanthrene	340		40	19	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Pyrene	290		100	18	ug/Kg	☼	04/29/13 14:27	05/01/13 17:33	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	53		30 - 130				04/29/13 14:27	05/01/13 17:33	4

Client Sample ID: 042313-RB-Sieve

Lab Sample ID: 680-89695-35

Date Collected: 04/23/13 10:00

Matrix: Water

Date Received: 04/25/13 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2.2	U F	2.2	0.55	ug/L		04/30/13 16:50	05/01/13 21:49	1
Acenaphthylene	1.1	U	1.1	0.27	ug/L		04/30/13 16:50	05/01/13 21:49	1
Anthracene	0.22	U	0.22	0.084	ug/L		04/30/13 16:50	05/01/13 21:49	1
Benzo[a]anthracene	0.22	U F	0.22	0.055	ug/L		04/30/13 16:50	05/01/13 21:49	1
Benzo[a]pyrene	0.22	U	0.22	0.063	ug/L		04/30/13 16:50	05/01/13 21:49	1
Benzo[b]fluoranthene	0.22	U F	0.22	0.055	ug/L		04/30/13 16:50	05/01/13 21:49	1
Benzo[g,h,i]perylene	0.55	U F	0.55	0.11	ug/L		04/30/13 16:50	05/01/13 21:49	1
Benzo[k]fluoranthene	0.22	U F	0.22	0.063	ug/L		04/30/13 16:50	05/01/13 21:49	1
Chrysene	0.22	U F	0.22	0.076	ug/L		04/30/13 16:50	05/01/13 21:49	1
Dibenz(a,h)anthracene	0.22	U F	0.22	0.055	ug/L		04/30/13 16:50	05/01/13 21:49	1
Fluoranthene	0.55	U F	0.55	0.059	ug/L		04/30/13 16:50	05/01/13 21:49	1
Fluorene	2.2	U F	2.2	0.55	ug/L		04/30/13 16:50	05/01/13 21:49	1
Indeno[1,2,3-cd]pyrene	0.22	U F	0.22	0.055	ug/L		04/30/13 16:50	05/01/13 21:49	1
1-Methylnaphthalene	2.2	U	2.2	0.55	ug/L		04/30/13 16:50	05/01/13 21:49	1
2-Methylnaphthalene	2.2	U F	2.2	0.55	ug/L		04/30/13 16:50	05/01/13 21:49	1
Naphthalene	2.2	U F	2.2	0.27	ug/L		04/30/13 16:50	05/01/13 21:49	1
Phenanthrene	0.55	U F	0.55	0.22	ug/L		04/30/13 16:50	05/01/13 21:49	1
Pyrene	0.55	U F	0.55	0.098	ug/L		04/30/13 16:50	05/01/13 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	52		30 - 130				04/30/13 16:50	05/01/13 21:49	1

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

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

Lab Sample ID: MB 660-136855/1-A

Matrix: Solid

Analysis Batch: 136961

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136855

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Fluorene	20	U	20	4.1	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Naphthalene	40	U	40	4.4	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/26/13 07:28	04/29/13 13:08	1
Pyrene	20	U	20	3.7	ug/Kg		04/26/13 07:28	04/29/13 13:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	63		30 - 130	04/26/13 07:28	04/29/13 13:08	1

Lab Sample ID: LCS 660-136855/2-A

Matrix: Solid

Analysis Batch: 136961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136855

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	656	395		ug/Kg		60	39 - 130
Acenaphthylene	656	392		ug/Kg		60	38 - 130
Anthracene	656	399		ug/Kg		61	37 - 130
Benzo[a]anthracene	656	400		ug/Kg		61	40 - 130
Benzo[a]pyrene	656	390		ug/Kg		59	49 - 130
Benzo[b]fluoranthene	656	430		ug/Kg		66	37 - 130
Benzo[g,h,i]perylene	656	396		ug/Kg		60	32 - 130
Benzo[k]fluoranthene	656	392		ug/Kg		60	32 - 130
Chrysene	656	376		ug/Kg		57	41 - 130
Dibenz(a,h)anthracene	656	462		ug/Kg		70	27 - 130
Fluoranthene	656	442		ug/Kg		67	40 - 130
Fluorene	656	420		ug/Kg		64	40 - 130
Indeno[1,2,3-cd]pyrene	656	423		ug/Kg		64	30 - 130
1-Methylnaphthalene	656	453		ug/Kg		69	31 - 130
2-Methylnaphthalene	656	430		ug/Kg		66	33 - 130
Naphthalene	656	410		ug/Kg		63	36 - 130
Phenanthrene	656	386		ug/Kg		59	42 - 130
Pyrene	656	413		ug/Kg		63	44 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

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

Lab Sample ID: LCS 660-136855/2-A
Matrix: Solid
Analysis Batch: 136961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136855

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	65		30 - 130

Lab Sample ID: MB 660-136938/1-A
Matrix: Solid
Analysis Batch: 137001

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 136938

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	100	U	100	20	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Acenaphthylene	40	U	40	5.0	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Anthracene	8.4	U	8.4	4.2	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Benzo[a]anthracene	8.0	U	8.0	3.9	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Benzo[a]pyrene	10	U	10	5.2	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Benzo[b]fluoranthene	12	U	12	6.1	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Benzo[g,h,i]perylene	20	U	20	4.4	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Benzo[k]fluoranthene	8.0	U	8.0	3.6	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Chrysene	9.0	U	9.0	4.5	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Dibenz(a,h)anthracene	20	U	20	4.1	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Fluoranthene	20	U	20	4.0	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Fluorene	20	U	20	4.1	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Indeno[1,2,3-cd]pyrene	20	U	20	7.1	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
1-Methylnaphthalene	40	U	40	4.4	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
2-Methylnaphthalene	40	U	40	7.1	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Naphthalene	40	U	40	4.4	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Phenanthrene	8.0	U	8.0	3.9	ug/Kg		04/29/13 14:27	05/01/13 14:46	1
Pyrene	20	U	20	3.7	ug/Kg		04/29/13 14:27	05/01/13 14:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	84		30 - 130	04/29/13 14:27	05/01/13 14:46	1

Lab Sample ID: LCS 660-136938/2-A
Matrix: Solid
Analysis Batch: 137001

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 136938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthylene	667	466		ug/Kg		70	38 - 130
Anthracene	667	487		ug/Kg		73	37 - 130
Benzo[a]anthracene	667	509		ug/Kg		76	40 - 130
Benzo[a]pyrene	667	496		ug/Kg		74	49 - 130
Benzo[b]fluoranthene	667	523		ug/Kg		78	37 - 130
Benzo[g,h,i]perylene	667	525		ug/Kg		79	32 - 130
Benzo[k]fluoranthene	667	516		ug/Kg		77	32 - 130
Chrysene	667	484		ug/Kg		73	41 - 130
Dibenz(a,h)anthracene	667	593		ug/Kg		89	27 - 130
Fluoranthene	667	524		ug/Kg		79	40 - 130
Fluorene	667	485		ug/Kg		73	40 - 130
Indeno[1,2,3-cd]pyrene	667	560		ug/Kg		84	30 - 130
1-Methylnaphthalene	667	530		ug/Kg		79	31 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

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

Lab Sample ID: LCS 660-136938/2-A

Matrix: Solid

Analysis Batch: 137001

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	667	505		ug/Kg		76	33 - 130
Naphthalene	667	497		ug/Kg		75	36 - 130
Phenanthrene	667	471		ug/Kg		71	42 - 130
Pyrene	667	484		ug/Kg		73	44 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	71		30 - 130

Lab Sample ID: 680-89695-21 MS

Matrix: Solid

Analysis Batch: 137001

Client Sample ID: CV1158A-CS

Prep Type: Total/NA

Prep Batch: 136938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	490	U	814	550		ug/Kg	☼	68	39 - 130
Acenaphthylene	190	U	814	556		ug/Kg	☼	68	38 - 130
Anthracene	56		814	646		ug/Kg	☼	72	37 - 130
Benzo[a]anthracene	240		814	945		ug/Kg	☼	87	40 - 130
Benzo[a]pyrene	210	F	814	799		ug/Kg	☼	72	49 - 130
Benzo[b]fluoranthene	310		814	930		ug/Kg	☼	76	37 - 130
Benzo[g,h,i]perylene	200		814	889		ug/Kg	☼	85	32 - 130
Benzo[k]fluoranthene	140		814	709		ug/Kg	☼	70	32 - 130
Chrysene	270	F	814	842		ug/Kg	☼	70	41 - 130
Dibenz(a,h)anthracene	43	J	814	810		ug/Kg	☼	94	27 - 130
Fluoranthene	410	F	814	1110		ug/Kg	☼	86	40 - 130
Fluorene	23	J	814	599		ug/Kg	☼	71	40 - 130
Indeno[1,2,3-cd]pyrene	190		814	949		ug/Kg	☼	94	30 - 130
1-Methylnaphthalene	56	J	814	665		ug/Kg	☼	75	31 - 130
2-Methylnaphthalene	69	J	814	671		ug/Kg	☼	74	33 - 130
Naphthalene	58	J	814	677		ug/Kg	☼	76	36 - 130
Phenanthrene	270		814	916		ug/Kg	☼	80	42 - 130
Pyrene	380	F	814	1020		ug/Kg	☼	79	44 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
<i>o</i> -Terphenyl	64		30 - 130

Lab Sample ID: 680-89695-21 MSD

Matrix: Solid

Analysis Batch: 137001

Client Sample ID: CV1158A-CS

Prep Type: Total/NA

Prep Batch: 136938

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Acenaphthene	490	U	803	423	J	ug/Kg	☼	53	39 - 130	26	40
Acenaphthylene	190	U	803	419		ug/Kg	☼	52	38 - 130	28	40
Anthracene	56		803	472		ug/Kg	☼	52	37 - 130	31	40
Benzo[a]anthracene	240		803	673		ug/Kg	☼	54	40 - 130	34	40
Benzo[a]pyrene	210	F	803	591	F	ug/Kg	☼	47	49 - 130	30	40
Benzo[b]fluoranthene	310		803	672		ug/Kg	☼	44	37 - 130	32	40
Benzo[g,h,i]perylene	200		803	649		ug/Kg	☼	56	32 - 130	31	40
Benzo[k]fluoranthene	140		803	518		ug/Kg	☼	47	32 - 130	31	40

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

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

Lab Sample ID: 680-89695-21 MSD

Matrix: Solid

Analysis Batch: 137001

Client Sample ID: CV1158A-CS

Prep Type: Total/NA

Prep Batch: 136938

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chrysene	270	F	803	574	F	ug/Kg	*	38	41 - 130	38	40
Dibenz(a,h)anthracene	43	J	803	635		ug/Kg	*	74	27 - 130	24	40
Fluoranthene	410	F	803	723	F	ug/Kg	*	39	40 - 130	42	40
Fluorene	23	J	803	431		ug/Kg	*	51	40 - 130	33	40
Indeno[1,2,3-cd]pyrene	190		803	650		ug/Kg	*	58	30 - 130	37	40
1-Methylnaphthalene	56	J	803	502		ug/Kg	*	55	31 - 130	28	40
2-Methylnaphthalene	69	J	803	503		ug/Kg	*	54	33 - 130	29	40
Naphthalene	58	J	803	476		ug/Kg	*	52	36 - 130	35	40
Phenanthrene	270		803	616		ug/Kg	*	43	42 - 130	39	40
Pyrene	380	F	803	651	F	ug/Kg	*	34	44 - 130	44	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
<i>o</i> -Terphenyl	62		30 - 130

Lab Sample ID: MB 660-136981/1-A

Matrix: Water

Analysis Batch: 137001

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 136981

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	2.0	U	2.0	0.50	ug/L		04/30/13 16:50	05/01/13 21:03	1
Acenaphthylene	1.0	U	1.0	0.25	ug/L		04/30/13 16:50	05/01/13 21:03	1
Anthracene	0.20	U	0.20	0.076	ug/L		04/30/13 16:50	05/01/13 21:03	1
Benzo[a]anthracene	0.20	U	0.20	0.050	ug/L		04/30/13 16:50	05/01/13 21:03	1
Benzo[a]pyrene	0.20	U	0.20	0.057	ug/L		04/30/13 16:50	05/01/13 21:03	1
Benzo[b]fluoranthene	0.20	U	0.20	0.050	ug/L		04/30/13 16:50	05/01/13 21:03	1
Benzo[g,h,i]perylene	0.50	U	0.50	0.10	ug/L		04/30/13 16:50	05/01/13 21:03	1
Benzo[k]fluoranthene	0.20	U	0.20	0.057	ug/L		04/30/13 16:50	05/01/13 21:03	1
Chrysene	0.20	U	0.20	0.069	ug/L		04/30/13 16:50	05/01/13 21:03	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.050	ug/L		04/30/13 16:50	05/01/13 21:03	1
Fluoranthene	0.50	U	0.50	0.054	ug/L		04/30/13 16:50	05/01/13 21:03	1
Fluorene	2.0	U	2.0	0.50	ug/L		04/30/13 16:50	05/01/13 21:03	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.050	ug/L		04/30/13 16:50	05/01/13 21:03	1
1-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		04/30/13 16:50	05/01/13 21:03	1
2-Methylnaphthalene	2.0	U	2.0	0.50	ug/L		04/30/13 16:50	05/01/13 21:03	1
Naphthalene	2.0	U	2.0	0.25	ug/L		04/30/13 16:50	05/01/13 21:03	1
Phenanthrene	0.50	U	0.50	0.20	ug/L		04/30/13 16:50	05/01/13 21:03	1
Pyrene	0.50	U	0.50	0.089	ug/L		04/30/13 16:50	05/01/13 21:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	72		30 - 130	04/30/13 16:50	05/01/13 21:03	1

Lab Sample ID: LCS 660-136981/2-A

Matrix: Water

Analysis Batch: 137001

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136981

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
Acenaphthene	10.0	7.97		ug/L		80	55 - 132
Acenaphthylene	10.0	7.94		ug/L		79	39 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

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

Lab Sample ID: LCS 660-136981/2-A

Matrix: Water

Analysis Batch: 137001

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 136981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Anthracene	10.0	8.66		ug/L		87	39 - 130	
Benzo[a]anthracene	10.0	8.92		ug/L		89	54 - 135	
Benzo[a]pyrene	10.0	5.70		ug/L		57	21 - 130	
Benzo[b]fluoranthene	10.0	7.35		ug/L		74	37 - 130	
Benzo[g,h,i]perylene	10.0	2.90		ug/L		29	26 - 130	
Benzo[k]fluoranthene	10.0	5.87		ug/L		59	38 - 130	
Chrysene	10.0	7.95		ug/L		80	56 - 130	
Dibenz(a,h)anthracene	10.0	3.55		ug/L		36	13 - 130	
Fluoranthene	10.0	9.14		ug/L		91	60 - 130	
Fluorene	10.0	8.37		ug/L		84	55 - 140	
Indeno[1,2,3-cd]pyrene	10.0	3.35		ug/L		34	21 - 130	
1-Methylnaphthalene	10.0	9.24		ug/L		92	49 - 130	
2-Methylnaphthalene	10.0	9.13		ug/L		91	48 - 130	
Naphthalene	10.0	9.09		ug/L		91	54 - 133	
Phenanthrene	10.0	8.89		ug/L		89	60 - 136	
Pyrene	10.0	7.53		ug/L		75	60 - 138	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	82		30 - 130

Lab Sample ID: LCSD 660-136981/3-A

Matrix: Water

Analysis Batch: 137001

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 136981

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
									RPD	Limit
Acenaphthene	10.0	7.58		ug/L		76	55 - 132	5	35	
Acenaphthylene	10.0	7.72		ug/L		77	39 - 130	3	35	
Anthracene	10.0	8.59		ug/L		86	39 - 130	1	35	
Benzo[a]anthracene	10.0	8.47		ug/L		85	54 - 135	5	35	
Benzo[a]pyrene	10.0	5.15		ug/L		51	21 - 130	10	35	
Benzo[b]fluoranthene	10.0	5.67		ug/L		57	37 - 130	26	35	
Benzo[g,h,i]perylene	10.0	2.70		ug/L		27	26 - 130	7	35	
Benzo[k]fluoranthene	10.0	6.07		ug/L		61	38 - 130	3	35	
Chrysene	10.0	7.26		ug/L		73	56 - 130	9	35	
Dibenz(a,h)anthracene	10.0	3.12		ug/L		31	13 - 130	13	35	
Fluoranthene	10.0	9.50		ug/L		95	60 - 130	4	35	
Fluorene	10.0	8.29		ug/L		83	55 - 140	1	35	
Indeno[1,2,3-cd]pyrene	10.0	2.97		ug/L		30	21 - 130	12	35	
1-Methylnaphthalene	10.0	8.89		ug/L		89	49 - 130	4	35	
2-Methylnaphthalene	10.0	8.76		ug/L		88	48 - 130	4	35	
Naphthalene	10.0	8.81		ug/L		88	54 - 133	3	35	
Phenanthrene	10.0	8.45		ug/L		85	60 - 136	5	35	
Pyrene	10.0	7.81		ug/L		78	60 - 138	4	35	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	80		30 - 130

TestAmerica Savannah

QC Sample Results

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

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

Lab Sample ID: 680-89695-35 MS

Matrix: Water

Analysis Batch: 137001

Client Sample ID: 042313-RB-Sieve

Prep Type: Total/NA

Prep Batch: 136981

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Acenaphthene	2.2	U F	10.1	4.16	F	ug/L		41	55 - 132
Acenaphthylene	1.1	U	10.1	4.19		ug/L		41	39 - 130
Anthracene	0.22	U	10.1	4.55		ug/L		45	39 - 130
Benzo[a]anthracene	0.22	U F	10.1	3.83	F	ug/L		38	54 - 135
Benzo[a]pyrene	0.22	U	10.1	2.14		ug/L		21	21 - 130
Benzo[b]fluoranthene	0.22	U F	10.1	2.86	F	ug/L		28	37 - 130
Benzo[g,h,i]perylene	0.55	U F	10.1	0.732	F	ug/L		7	26 - 130
Benzo[k]fluoranthene	0.22	U F	10.1	2.27	F	ug/L		22	38 - 130
Chrysene	0.22	U F	10.1	2.95	F	ug/L		29	56 - 130
Dibenz(a,h)anthracene	0.22	U F	10.1	0.925	F	ug/L		9	13 - 130
Fluoranthene	0.55	U F	10.1	5.14	F	ug/L		51	60 - 130
Fluorene	2.2	U F	10.1	4.36	F	ug/L		43	55 - 140
Indeno[1,2,3-cd]pyrene	0.22	U F	10.1	1.20	F	ug/L		12	21 - 130
1-Methylnaphthalene	2.2	U	10.1	4.92		ug/L		49	49 - 130
2-Methylnaphthalene	2.2	U F	10.1	4.74	F	ug/L		47	48 - 130
Naphthalene	2.2	U F	10.1	5.16	F	ug/L		51	54 - 133
Phenanthrene	0.55	U F	10.1	4.44	F	ug/L		44	60 - 136
Pyrene	0.55	U F	10.1	3.96	F	ug/L		39	60 - 138
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
<i>o</i> -Terphenyl	41		30 - 130						

QC Association Summary

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

GC/MS Semi VOA

Prep Batch: 136855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-22	CV1158B-CS	Total/NA	Solid	3546	
680-89695-23	CV1235A-CS	Total/NA	Solid	3546	
680-89695-24	CV1235B-CS	Total/NA	Solid	3546	
680-89695-25	CV1235C-CS	Total/NA	Solid	3546	
680-89695-26	CV1235D-CS	Total/NA	Solid	3546	
LCS 660-136855/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136855/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 136938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-21	CV1158A-CS	Total/NA	Solid	3546	
680-89695-21 MS	CV1158A-CS	Total/NA	Solid	3546	
680-89695-21 MSD	CV1158A-CS	Total/NA	Solid	3546	
680-89695-27	CV1235D-CSD	Total/NA	Solid	3546	
680-89695-28	CV1324A-CS	Total/NA	Solid	3546	
680-89695-29	CV0686A-CS-SP	Total/NA	Solid	3546	
680-89695-30	CV0686B-CS-SP	Total/NA	Solid	3546	
680-89695-31	CV0686C-GS-SP	Total/NA	Solid	3546	
LCS 660-136938/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 660-136938/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 136961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-22	CV1158B-CS	Total/NA	Solid	8270C LL	136855
680-89695-23	CV1235A-CS	Total/NA	Solid	8270C LL	136855
680-89695-24	CV1235B-CS	Total/NA	Solid	8270C LL	136855
680-89695-25	CV1235C-CS	Total/NA	Solid	8270C LL	136855
680-89695-26	CV1235D-CS	Total/NA	Solid	8270C LL	136855
LCS 660-136855/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136855
MB 660-136855/1-A	Method Blank	Total/NA	Solid	8270C LL	136855

Prep Batch: 136981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-35	042313-RB-Sieve	Total/NA	Water	3520C	
680-89695-35 MS	042313-RB-Sieve	Total/NA	Water	3520C	
LCS 660-136981/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 660-136981/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 660-136981/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 137001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-21	CV1158A-CS	Total/NA	Solid	8270C LL	136938
680-89695-21 MS	CV1158A-CS	Total/NA	Solid	8270C LL	136938
680-89695-21 MSD	CV1158A-CS	Total/NA	Solid	8270C LL	136938
680-89695-27	CV1235D-CSD	Total/NA	Solid	8270C LL	136938
680-89695-28	CV1324A-CS	Total/NA	Solid	8270C LL	136938
680-89695-29	CV0686A-CS-SP	Total/NA	Solid	8270C LL	136938
680-89695-30	CV0686B-CS-SP	Total/NA	Solid	8270C LL	136938
680-89695-31	CV0686C-GS-SP	Total/NA	Solid	8270C LL	136938
680-89695-35	042313-RB-Sieve	Total/NA	Water	8270C LL	136981
680-89695-35 MS	042313-RB-Sieve	Total/NA	Water	8270C LL	136981

TestAmerica Savannah

QC Association Summary

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

TestAmerica Job ID: 680-89695-2
SDG: 68089695-2

GC/MS Semi VOA (Continued)

Analysis Batch: 137001 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-136938/2-A	Lab Control Sample	Total/NA	Solid	8270C LL	136938
LCS 660-136981/2-A	Lab Control Sample	Total/NA	Water	8270C LL	136981
LCSD 660-136981/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	136981
MB 660-136938/1-A	Method Blank	Total/NA	Solid	8270C LL	136938
MB 660-136981/1-A	Method Blank	Total/NA	Water	8270C LL	136981

General Chemistry

Analysis Batch: 136902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-89695-21	CV1158A-CS	Total/NA	Solid	Moisture	
680-89695-21 MS	CV1158A-CS	Total/NA	Solid	Moisture	
680-89695-21 MSD	CV1158A-CS	Total/NA	Solid	Moisture	
680-89695-22	CV1158B-CS	Total/NA	Solid	Moisture	
680-89695-23	CV1235A-CS	Total/NA	Solid	Moisture	
680-89695-24	CV1235B-CS	Total/NA	Solid	Moisture	
680-89695-25	CV1235C-CS	Total/NA	Solid	Moisture	
680-89695-26	CV1235D-CS	Total/NA	Solid	Moisture	
680-89695-27	CV1235D-CSD	Total/NA	Solid	Moisture	
680-89695-28	CV1324A-CS	Total/NA	Solid	Moisture	
680-89695-29	CV0686A-CS-SP	Total/NA	Solid	Moisture	
680-89695-30	CV0686B-CS-SP	Total/NA	Solid	Moisture	
680-89695-31	CV0686C-GS-SP	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV1158A-CS

Lab Sample ID: 680-89695-21

Date Collected: 04/23/13 14:45

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137001	05/01/13 15:32	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV1158B-CS

Lab Sample ID: 680-89695-22

Date Collected: 04/23/13 15:00

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	136961	04/29/13 17:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV1235A-CS

Lab Sample ID: 680-89695-23

Date Collected: 04/23/13 13:10

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	136961	04/29/13 18:10	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV1235B-CS

Lab Sample ID: 680-89695-24

Date Collected: 04/23/13 13:20

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		1	136961	04/29/13 18:25	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV1235C-CS

Lab Sample ID: 680-89695-25

Date Collected: 04/23/13 13:30

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	136961	04/29/13 18:40	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Client Sample ID: CV1235D-CS

Lab Sample ID: 680-89695-26

Date Collected: 04/23/13 13:40

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136855	04/26/13 07:28	AG	TAL TAM
Total/NA	Analysis	8270C LL		4	136961	04/29/13 18:55	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV1235D-CSD

Lab Sample ID: 680-89695-27

Date Collected: 04/23/13 13:40

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137001	05/01/13 16:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV1324A-CS

Lab Sample ID: 680-89695-28

Date Collected: 04/23/13 14:20

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 75.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137001	05/01/13 16:48	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV0686A-CS-SP

Lab Sample ID: 680-89695-29

Date Collected: 04/23/13 14:59

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137001	05/01/13 17:03	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: CV0686B-CS-SP

Lab Sample ID: 680-89695-30

Date Collected: 04/23/13 15:03

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		1	137001	05/01/13 17:18	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Lab Chronicle

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

TestAmerica Job ID: 680-89695-2
SDG: 68089695-2

Client Sample ID: CV0686C-GS-SP

Lab Sample ID: 680-89695-31

Date Collected: 04/23/13 15:22

Matrix: Solid

Date Received: 04/25/13 08:40

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			136938	04/29/13 14:27	RN	TAL TAM
Total/NA	Analysis	8270C LL		4	137001	05/01/13 17:33	SCC	TAL TAM
Total/NA	Analysis	Moisture		1	136902	04/29/13 06:14	AG	TAL TAM

Client Sample ID: 042313-RB-Sieve

Lab Sample ID: 680-89695-35

Date Collected: 04/23/13 10:00

Matrix: Water

Date Received: 04/25/13 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			136981	04/30/13 16:50	SC	TAL TAM
Total/NA	Analysis	8270C LL		1	137001	05/01/13 21:49	SCC	TAL TAM

Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Serial Number 64615

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Test Am - Tampa

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal PROJECT NO.: 2005148-1356 PROJECT LOCATION (STATE): FL MATRIX TYPE: REQUIRED ANALYSIS: PAGE 2 OF 3

(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE:
AQUEOUS (WATER) SOLID OR SEMISOLID AIR NONAQUEOUS LIQUID (OIL, SOLVENT, ...)
LL PAH
PCOAS Metals
PRESERVATIVE

STANDARD REPORT DELIVERY:
DATE DUE: _____
EXPEDITED REPORT DELIVERY (SURCHARGE):
DATE DUE: 10 MAY TAT
NUMBER OF COOLERS SUBMITTED PER SHIPMENT: _____

COMPANY CONTRACTING THIS WORK (if applicable):

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS		
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12
4-23-13	0853	CN0427A-CS-SP	C	X			X													
	0903	CN0427B-CS-SP	C	X			X	X												
	0931	CN0718A-CS-SP	C	X			X													
	0944	CN0718B-CS-SP	C	X			X													
	1246	HP0157A-CS-SP	C	X			X													
	1322	CN0575A-CS-SP	C	X			X	X												
	1351	CN0927A-CS-SP	C	X			X													
	1403	CN0927B-CS-SP	C	X			X													
	1445	CV1158A-CS	C	X			X													
	1500	CV1158B-CS	C	X			X													
	1310	CV1235A-CS	C	X			X													
	1320	CV1235B-CS	C	X			X													

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-24-13	TIME 1330	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-25-13	TIME 0840	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-89695	LABORATORY REMARKS
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Page 24 of 29

5/7/2013



Serial Number 64689

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Test Am Tampa

Phone:
Fax:

PROJECT REFERENCE 35th Ave Removal	PROJECT NO. 2005148-1356	PROJECT LOCATION (STATE) FL	MATRIX TYPE	REQUIRED ANALYSIS	PAGE 3	OF 3
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(b) (6)

COMPOSITE (C) OR GRAB (G) INDICATE
AQUEOUS (WATER)
SOLID OR SEMISOLID
AIR
NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

LL PAH
RCCA 8 Metals

STANDARD REPORT DELIVERY

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE)

10 day TAT
DATE DUE _____

PRESERVATIVE

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

COMPANY CONTRACTING THIS WORK (if applicable)

SAMPLE		SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS										REMARKS							
DATE	TIME							1	2	3	4	5	6	7	8	9	10		11	12					
4-23-13	1330	CV 1235C-CS	C	X			X																		
	1340	CV 1235D-CS	C	X			X																		
	1340	CV 1235D-CSD	C	X			X																		
	1420	CV 1324A-CS	C	X			X																		
	1459	CV 0686A-CS-SP	C	X			X																		
	1503	CV 0686B-CS-SP	C	X			X																		
	1522	CV 0686C-GS-SP	G	X			X																		
4-23-13	1455	CV 1327A-CS (sieve)	C	X				X																	
4-23-13	1322	CV 0575A-CS-sp (sieve)	C	X					X																
	0903	CV 0427B-CS-sp (sieve)	C	X					X																
4-23-13	1000	0423.13-RB-Sieve			X			X	X																

RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-24-13	TIME 1330	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) <i>[Signature]</i>	DATE 4-25-13	TIME 0840	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES <input type="radio"/> NO <input type="radio"/>	CUSTODY SEAL NO.	SAVANNAH LOG NO. 680-89695	LABORATORY REMARKS
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Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-2

SDG Number: 68089695-2

Login Number: 89695

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.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-89695-2

SDG Number: 68089695-2

Login Number: 89695

List Number: 1

Creator: Snead, Joshua

List Source: TestAmerica Tampa

List Creation: 04/25/13 01:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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.	False	

Certification Summary

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

TestAmerica Job ID: 680-89695-2
 SDG: 68089695-2

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	05-31-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13 *
California	NELAP	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-13
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-13
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13 *
Kentucky	State Program	4	90084	12-31-12 *
Kentucky (UST)	State Program	4	18	03-31-13 *
Louisiana	NELAP	6	30690	06-30-13
Louisiana	NELAP	6	LA100015	12-31-13
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-13
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Montana	State Program	8	CERT0081	01-01-14
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13 *
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-14
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13 *
Puerto Rico	State Program	2	GA00006	01-01-14
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13 *
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Savannah

Certification Summary

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

TestAmerica Job ID: 680-89695-2
SDG: 68089695-2

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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