ANALYTICAL REPORT

Job Number: 680-87318-2

SDG Number: 68087318-2

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
2/20/2013 2:58 PM

Designee for
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Project Manager II
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02/20/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87318-2

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 02/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.2º C and 2.8º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0005O-CS (680-87318-21), CV0005O-CSD (680-87318-22), CV0005Q-CS (680-87318-23), CV0005P-CS (680-87318-24), CV0005R-CS (680-87318-25), CV0005R-CSD (680-87318-26), CV0005S-CS (680-87318-27), CV0005T-CS (680-87318-28), CV0005T-CSD (680-87318-29), CV0005U-CS (680-87318-30), CV0005U-CSD (680-87318-31), CV0005V-CS (680-87318-32), CV0005W-CS (680-87318-33), CV0005X-CS (680-87318-34), CV0005X-CSD (680-87318-35), CV0005Y-CS (680-87318-36), CV0005Z-CS (680-87318-37), CV0005Z-CSD (680-87318-38), CV0005AA-CS (680-87318-39) and CV0005BB-CS (680-87318-40) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/14/2013 and analyzed on 02/15/2013, 02/16/2013 and 02/18/2013.

Samples CV0005Q-CS (680-87318-23)[4X], CV0005R-CS (680-87318-25)[4X], CV0005R-CSD (680-87318-26)[4X], CV0005S-CS (680-87318-27)[4X], CV0005T-CS (680-87318-28)[4X], CV0005T-CSD (680-87318-29)[4X], CV0005U-CS (680-87318-30)[4X], CV0005U-CSD (680-87318-31)[4X], CV0005V-CS (680-87318-32)[4X], CV0005W-CS (680-87318-33)[4X], CV0005X-CS (680-87318-34)[4X], CV0005X-CSD (680-87318-35)[4X], CV0005Y-CS (680-87318-36)[4X], CV0005Z-CS (680-87318-37)[4X], CV0005Z-CSD (680-87318-38)[4X], CV0005AA-CS (680-87318-39)[4X] and CV0005BB-CS (680-87318-40)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MSD of sample CV0005Y-CS (680-87318-36) in batch 660-134532. Several analytes also exceeded the rpd limit.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-2
Sdg Number: 68087318-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87318-21	CV0005O-CS	Solid	02/07/2013 1345	02/09/2013 1033
680-87318-22	CV0005O-CSD	Solid	02/07/2013 1347	02/09/2013 1033
680-87318-23	CV0005Q-CS	Solid	02/07/2013 1357	02/09/2013 1033
680-87318-24	CV0005P-CS	Solid	02/07/2013 1352	02/09/2013 1033
680-87318-25	CV0005R-CS	Solid	02/07/2013 1411	02/09/2013 1033
680-87318-26	CV0005R-CSD	Solid	02/07/2013 1413	02/09/2013 1033
680-87318-27	CV0005S-CS	Solid	02/07/2013 1410	02/09/2013 1033
680-87318-28	CV0005T-CS	Solid	02/07/2013 1423	02/09/2013 1033
680-87318-29	CV0005T-CSD	Solid	02/07/2013 1425	02/09/2013 1033
680-87318-30	CV0005U-CS	Solid	02/07/2013 1432	02/09/2013 1033
680-87318-31	CV0005U-CSD	Solid	02/07/2013 1434	02/09/2013 1033
680-87318-32	CV0005V-CS	Solid	02/07/2013 1434	02/09/2013 1033
680-87318-33	CV0005W-CS	Solid	02/07/2013 1441	02/09/2013 1033
680-87318-34	CV0005X-CS	Solid	02/07/2013 1500	02/09/2013 1033
680-87318-35	CV0005X-CSD	Solid	02/07/2013 1502	02/09/2013 1033
680-87318-36	CV0005Y-CS	Solid	02/07/2013 1500	02/09/2013 1033
680-87318-36MS	CV0005Y-CS	Solid	02/07/2013 1500	02/09/2013 1033
680-87318-36MSD	CV0005Y-CS	Solid	02/07/2013 1500	02/09/2013 1033
680-87318-37	CV0005Z-CS	Solid	02/07/2013 1510	02/09/2013 1033
680-87318-38	CV0005Z-CSD	Solid	02/07/2013 1512	02/09/2013 1033
680-87318-39	CV0005AA-CS	Solid	02/07/2013 1535	02/09/2013 1033
680-87318-40	CV0005BB-CS	Solid	02/07/2013 1536	02/09/2013 1033

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-2
Sdg Number: 68087318-2

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	

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: 680-87318-2
Sdg Number: 68087318-2

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: 680-87318-2
Sdg Number: 68087318-2

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

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-2
Sdg Number: 68087318-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134472					
LCS 660-134472/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134472/1-A	Method Blank	T	Solid	3546	
680-87279-A-21-B MS	Matrix Spike	T	Solid	3546	
680-87279-A-21-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87318-21	CV0005O-CS	T	Solid	3546	
680-87318-22	CV0005O-CSD	T	Solid	3546	
680-87318-23	CV0005Q-CS	T	Solid	3546	
680-87318-24	CV0005P-CS	T	Solid	3546	
Prep Batch: 660-134486					
LCS 660-134486/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134486/1-A	Method Blank	T	Solid	3546	
680-87318-25	CV0005R-CS	T	Solid	3546	
680-87318-26	CV0005R-CSD	T	Solid	3546	
680-87318-27	CV0005S-CS	T	Solid	3546	
680-87318-28	CV0005T-CS	T	Solid	3546	
680-87318-29	CV0005T-CSD	T	Solid	3546	
680-87318-30	CV0005U-CS	T	Solid	3546	
680-87318-31	CV0005U-CSD	T	Solid	3546	
680-87318-32	CV0005V-CS	T	Solid	3546	
680-87318-33	CV0005W-CS	T	Solid	3546	
680-87318-34	CV0005X-CS	T	Solid	3546	
680-87318-35	CV0005X-CSD	T	Solid	3546	
680-87318-36	CV0005Y-CS	T	Solid	3546	
680-87318-36MS	Matrix Spike	T	Solid	3546	
680-87318-36MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87318-37	CV0005Z-CS	T	Solid	3546	
680-87318-38	CV0005Z-CSD	T	Solid	3546	
680-87318-39	CV0005AA-CS	T	Solid	3546	
680-87318-40	CV0005BB-CS	T	Solid	3546	
Analysis Batch:660-134530					
LCS 660-134472/2-A	Lab Control Sample	T	Solid	8270C LL	660-134472
MB 660-134472/1-A	Method Blank	T	Solid	8270C LL	660-134472
680-87279-A-21-B MS	Matrix Spike	T	Solid	8270C LL	660-134472
680-87279-A-21-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134472
680-87318-21	CV0005O-CS	T	Solid	8270C LL	660-134472
680-87318-22	CV0005O-CSD	T	Solid	8270C LL	660-134472
680-87318-23	CV0005Q-CS	T	Solid	8270C LL	660-134472
680-87318-24	CV0005P-CS	T	Solid	8270C LL	660-134472

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-2
Sdg Number: 68087318-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-134532					
LCS 660-134486/2-A	Lab Control Sample	T	Solid	8270C LL	660-134486
MB 660-134486/1-A	Method Blank	T	Solid	8270C LL	660-134486
680-87318-25	CV0005R-CS	T	Solid	8270C LL	660-134486
680-87318-26	CV0005R-CSD	T	Solid	8270C LL	660-134486
680-87318-27	CV0005S-CS	T	Solid	8270C LL	660-134486
680-87318-28	CV0005T-CS	T	Solid	8270C LL	660-134486
680-87318-29	CV0005T-CSD	T	Solid	8270C LL	660-134486
680-87318-30	CV0005U-CS	T	Solid	8270C LL	660-134486
680-87318-31	CV0005U-CSD	T	Solid	8270C LL	660-134486
680-87318-34	CV0005X-CS	T	Solid	8270C LL	660-134486
680-87318-35	CV0005X-CSD	T	Solid	8270C LL	660-134486
680-87318-36	CV0005Y-CS	T	Solid	8270C LL	660-134486
680-87318-36MS	Matrix Spike	T	Solid	8270C LL	660-134486
680-87318-36MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134486
680-87318-37	CV0005Z-CS	T	Solid	8270C LL	660-134486
680-87318-38	CV0005Z-CSD	T	Solid	8270C LL	660-134486
680-87318-39	CV0005AA-CS	T	Solid	8270C LL	660-134486
680-87318-40	CV0005BB-CS	T	Solid	8270C LL	660-134486
Analysis Batch:660-134598					
680-87318-32	CV0005V-CS	T	Solid	8270C LL	660-134486
680-87318-33	CV0005W-CS	T	Solid	8270C LL	660-134486

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-2
Sdg Number: 68087318-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134382					
LCS 660-134382/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134382/21	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87318-23	CV0005Q-CS	T	Solid	Moisture	
680-87318-29	CV0005T-CSD	T	Solid	Moisture	
Analysis Batch:660-134397					
LCS 660-134397/1	Lab Control Sample	T	Solid	Moisture	
680-87318-37	CV0005Z-CS	T	Solid	Moisture	
680-87318-39	CV0005AA-CS	T	Solid	Moisture	
680-87318-40	CV0005BB-CS	T	Solid	Moisture	
Analysis Batch:660-134398					
LCS 660-134398/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134398/11	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87318-28	CV0005T-CS	T	Solid	Moisture	
680-87318-30	CV0005U-CS	T	Solid	Moisture	
680-87318-31	CV0005U-CSD	T	Solid	Moisture	
680-87318-32	CV0005V-CS	T	Solid	Moisture	
680-87318-33	CV0005W-CS	T	Solid	Moisture	
680-87318-34	CV0005X-CS	T	Solid	Moisture	
680-87318-35	CV0005X-CSD	T	Solid	Moisture	
680-87318-38	CV0005Z-CSD	T	Solid	Moisture	
Analysis Batch:660-134442					
LCS 660-134442/1	Lab Control Sample	T	Solid	Moisture	
680-87318-21	CV0005O-CS	T	Solid	Moisture	
680-87318-22	CV0005O-CSD	T	Solid	Moisture	
680-87318-24	CV0005P-CS	T	Solid	Moisture	
Analysis Batch:660-134478					
LCS 660-134478/1	Lab Control Sample	T	Solid	Moisture	
LCSD 660-134478/22	Lab Control Sample Duplicate	T	Solid	Moisture	
680-87318-25	CV0005R-CS	T	Solid	Moisture	
680-87318-26	CV0005R-CSD	T	Solid	Moisture	
680-87318-27	CV0005S-CS	T	Solid	Moisture	
680-87318-36	CV0005Y-CS	T	Solid	Moisture	
680-87318-36MS	Matrix Spike	T	Solid	Moisture	
680-87318-36MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMA5973 Analysis Batch Number: 133924

Lab Sample ID: ICIS 660-133924/3 Client Sample ID:

Date Analyzed: 01/30/13 11:38 Lab File ID: 1AA30003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	01/30/13 12:17

Lab Sample ID: IC 660-133924/4 Client Sample ID:

Date Analyzed: 01/30/13 12:04 Lab File ID: 1AA30004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Phenanthrene	4.51	Baseline Event	cantins	01/30/13 13:28
Indeno[1,2,3-cd]pyrene	8.43	Split Peak	cantins	01/30/13 13:28

Lab Sample ID: IC 660-133924/5 Client Sample ID:

Date Analyzed: 01/30/13 12:19 Lab File ID: 1AA30005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	01/30/13 13:29

Lab Sample ID: IC 660-133924/6 Client Sample ID:

Date Analyzed: 01/30/13 12:34 Lab File ID: 1AA30006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.41	Split Peak	cantins	01/30/13 13:29

Lab Sample ID: IC 660-133924/7 Client Sample ID:

Date Analyzed: 01/30/13 12:49 Lab File ID: 1AA30007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	01/30/13 13:30

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMA5973 Analysis Batch Number: 133924

Lab Sample ID: IC 660-133924/8 Client Sample ID:

Date Analyzed: 01/30/13 13:04 Lab File ID: 1AA30008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	01/30/13 13:30

Lab Sample ID: IC 660-133924/9 Client Sample ID:

Date Analyzed: 01/30/13 13:20 Lab File ID: 1AA30009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	01/30/13 13:32

Lab Sample ID: ICV 660-133924/10 Client Sample ID:

Date Analyzed: 01/30/13 13:35 Lab File ID: 1AA30010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.70	Baseline Event	cantins	01/30/13 13:47
Indeno[1,2,3-cd]pyrene	8.42	Split Peak	cantins	01/30/13 13:47

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMA5973 Analysis Batch Number: 134532

Lab Sample ID: CCVIS 660-134532/8 Client Sample ID:

Date Analyzed: 02/15/13 15:21 Lab File ID: 1AB15006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.24	Split Peak	cantins	02/15/13 15:35

Lab Sample ID: LCS 660-134486/2-A Client Sample ID:

Date Analyzed: 02/15/13 22:10 Lab File ID: 1AB15033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/18/13 11:37

Lab Sample ID: 680-87318-25 Client Sample ID: CV0005R-CS

Date Analyzed: 02/15/13 22:25 Lab File ID: 1AB15034.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.23	Split Peak	cantins	02/18/13 12:12
Benzo[k]fluoranthene	7.24	Baseline Event	cantins	02/18/13 12:12
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/18/13 12:13

Lab Sample ID: 680-87318-26 Client Sample ID: CV0005R-CSD

Date Analyzed: 02/15/13 22:40 Lab File ID: 1AB15035.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 12:13
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/18/13 12:14
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/18/13 12:14

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMA5973 Analysis Batch Number: 134532

Lab Sample ID: 680-87318-27 Client Sample ID: CV0005S-CS

Date Analyzed: 02/15/13 22:55 Lab File ID: 1AB15036.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 12:15
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/18/13 12:15
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/18/13 12:15

Lab Sample ID: 680-87318-28 Client Sample ID: CV0005T-CS

Date Analyzed: 02/15/13 23:10 Lab File ID: 1AB15037.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 12:35
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/18/13 12:35
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/18/13 12:35

Lab Sample ID: 680-87318-29 Client Sample ID: CV0005T-CSD

Date Analyzed: 02/15/13 23:25 Lab File ID: 1AB15038.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 12:36
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/18/13 12:37
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/18/13 12:37

Lab Sample ID: 680-87318-30 Client Sample ID: CV0005U-CS

Date Analyzed: 02/15/13 23:40 Lab File ID: 1AB15039.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 12:38
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/18/13 12:38
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/18/13 12:38

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMA5973 Analysis Batch Number: 134532

Lab Sample ID: 680-87318-31 Client Sample ID: CV0005U-CSD

Date Analyzed: 02/15/13 23:56 Lab File ID: 1AB15040.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 12:39
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/18/13 12:39
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/18/13 12:40

Lab Sample ID: 680-87318-34 Client Sample ID: CV0005X-CS

Date Analyzed: 02/16/13 00:41 Lab File ID: 1AB15043.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 12:46
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/18/13 12:46
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/18/13 12:47

Lab Sample ID: 680-87318-35 Client Sample ID: CV0005X-CSD

Date Analyzed: 02/16/13 00:56 Lab File ID: 1AB15044.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 12:47
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/18/13 12:48
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/18/13 12:48

Lab Sample ID: 680-87318-36 Client Sample ID: CV0005Y-CS

Date Analyzed: 02/16/13 01:11 Lab File ID: 1AB15045.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 12:49
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/18/13 12:49
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/18/13 12:49

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMA5973 Analysis Batch Number: 134532

Lab Sample ID: 680-87318-36 MS Client Sample ID: CV0005Y-CS MS

Date Analyzed: 02/16/13 01:26 Lab File ID: 1AB15046.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/18/13 12:51

Lab Sample ID: 680-87318-36 MSD Client Sample ID: CV0005Y-CS MSD

Date Analyzed: 02/16/13 01:41 Lab File ID: 1AB15047.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/18/13 12:55

Lab Sample ID: 680-87318-37 Client Sample ID: CV0005Z-CS

Date Analyzed: 02/16/13 01:57 Lab File ID: 1AB15048.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 12:56
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/18/13 12:56
Indeno[1,2,3-cd]pyrene	8.26	Split Peak	cantins	02/18/13 12:56

Lab Sample ID: 680-87318-38 Client Sample ID: CV0005Z-CSD

Date Analyzed: 02/16/13 02:12 Lab File ID: 1AB15049.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 12:58
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/18/13 12:58
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/18/13 12:59

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMA5973 Analysis Batch Number: 134532

Lab Sample ID: 680-87318-39 Client Sample ID: CV0005AA-CS

Date Analyzed: 02/16/13 02:27 Lab File ID: 1AB15050.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 12:59
Benzo[k]fluoranthene	7.25	Baseline Event	cantins	02/18/13 12:59
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/18/13 13:00

Lab Sample ID: 680-87318-40 Client Sample ID: CV0005BB-CS

Date Analyzed: 02/16/13 02:42 Lab File ID: 1AB15051.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.24	Split Peak	cantins	02/18/13 13:01
Benzo[k]fluoranthene	7.26	Baseline Event	cantins	02/18/13 13:01
Indeno[1,2,3-cd]pyrene	8.27	Split Peak	cantins	02/18/13 13:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMC5973 Analysis Batch Number: 133227

Lab Sample ID: IC 660-133227/3 Client Sample ID:

Date Analyzed: 01/07/13 15:23 Lab File ID: 1CA07013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.76	Baseline Event	cantins	01/08/13 12:35
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:35
Dibenz(a,h)anthracene	10.39	Baseline Event	cantins	01/08/13 12:35
Benzo[g,h,i]perylene	10.76	Baseline Event	cantins	01/08/13 12:35

Lab Sample ID: IC 660-133227/4 Client Sample ID:

Date Analyzed: 01/07/13 15:41 Lab File ID: 1CA07014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chrysene	7.89	Baseline Event	cantins	01/08/13 12:36
Indeno[1,2,3-cd]pyrene	10.36	Split Peak	cantins	01/08/13 12:37
Dibenz(a,h)anthracene	10.38	Baseline Event	cantins	01/08/13 12:36
Benzo[g,h,i]perylene	10.75	Baseline Event	cantins	01/08/13 12:36

Lab Sample ID: IC 660-133227/5 Client Sample ID:

Date Analyzed: 01/07/13 15:59 Lab File ID: 1CA07015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:38
Dibenz(a,h)anthracene	10.39	Baseline Event	cantins	01/08/13 12:37
Benzo[g,h,i]perylene	10.75	Baseline Event	cantins	01/08/13 12:38

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMC5973 Analysis Batch Number: 133227

Lab Sample ID: IC 660-133227/6 Client Sample ID:

Date Analyzed: 01/07/13 16:18 Lab File ID: 1CA07016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:39
Dibenz(a,h)anthracene	10.39	Baseline Event	cantins	01/08/13 12:38
Benzo[g,h,i]perylene	10.74	Baseline Event	cantins	01/08/13 12:39

Lab Sample ID: ICIS 660-133227/7 Client Sample ID:

Date Analyzed: 01/07/13 16:36 Lab File ID: 1CA07017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:32
Dibenz(a,h)anthracene	10.39	Baseline Event	cantins	01/08/13 12:32
Benzo[g,h,i]perylene	10.75	Baseline Event	cantins	01/08/13 12:32

Lab Sample ID: IC 660-133227/8 Client Sample ID:

Date Analyzed: 01/07/13 16:54 Lab File ID: 1CA07018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:39

Lab Sample ID: IC 660-133227/9 Client Sample ID:

Date Analyzed: 01/07/13 17:13 Lab File ID: 1CA07019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:40

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMC5973 Analysis Batch Number: 133227

Lab Sample ID: ICV 660-133227/10 Client Sample ID:

Date Analyzed: 01/07/13 17:31 Lab File ID: 1CA07020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.37	Split Peak	cantins	01/08/13 12:44

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMC5973 Analysis Batch Number: 134530

Lab Sample ID: CCVIS 660-134530/4 Client Sample ID:

Date Analyzed: 02/15/13 11:56 Lab File ID: 1CB15004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/15/13 12:21

Lab Sample ID: LCS 660-134472/2-A Client Sample ID:

Date Analyzed: 02/15/13 13:38 Lab File ID: 1CB15009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/18/13 13:18

Lab Sample ID: 680-87279-A-21-B MS Client Sample ID:

Date Analyzed: 02/15/13 14:14 Lab File ID: 1CB15011.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/18/13 13:20

Lab Sample ID: 680-87279-A-21-C MSD Client Sample ID:

Date Analyzed: 02/15/13 14:33 Lab File ID: 1CB15012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/18/13 13:21

Lab Sample ID: 680-87318-21 Client Sample ID: CV0005O-CS

Date Analyzed: 02/15/13 19:45 Lab File ID: 1CB15029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/19/13 09:18
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/19/13 09:18
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/19/13 09:19

8270C LL

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMC5973 Analysis Batch Number: 134530

Lab Sample ID: 680-87318-22 Client Sample ID: CV0005O-CSD

Date Analyzed: 02/15/13 20:03 Lab File ID: 1CB15030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/19/13 09:19
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/19/13 09:19
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/19/13 09:20
Dibenz(a,h)anthracene	10.27	Baseline Event	cantins	02/19/13 09:19
Benzo[g,h,i]perylene	10.63	Baseline Event	cantins	02/19/13 09:20

Lab Sample ID: 680-87318-23 Client Sample ID: CV0005Q-CS

Date Analyzed: 02/15/13 20:21 Lab File ID: 1CB15031.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/19/13 09:21
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/19/13 09:21
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/19/13 09:21

Lab Sample ID: 680-87318-24 Client Sample ID: CV0005P-CS

Date Analyzed: 02/15/13 20:39 Lab File ID: 1CB15032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.67	Split Peak	cantins	02/19/13 09:22
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/19/13 09:22
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/19/13 09:22

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMC5973 Analysis Batch Number: 134598

Lab Sample ID: CCVIS 660-134598/3 Client Sample ID:

Date Analyzed: 02/18/13 14:07 Lab File ID: 1CB18003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/18/13 14:26

Lab Sample ID: 680-87318-32 Client Sample ID: CV0005V-CS

Date Analyzed: 02/18/13 14:47 Lab File ID: 1CB18005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.68	Analyte Misidentified by the Data System	cantins	02/18/13 15:03
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/18/13 15:03

Lab Sample ID: 680-87318-33 Client Sample ID: CV0005W-CS

Date Analyzed: 02/18/13 15:05 Lab File ID: 1CB18006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/18/13 15:33
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/18/13 15:33
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/18/13 15:33

Method 8270C Low Level

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

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0005O-CS	680-87318-21	62
CV0005O-CSD	680-87318-22	67
CV0005Q-CS	680-87318-23	68
CV0005P-CS	680-87318-24	56
CV0005R-CS	680-87318-25	94
CV0005R-CSD	680-87318-26	82
CV0005S-CS	680-87318-27	88
CV0005T-CS	680-87318-28	86
CV0005T-CSD	680-87318-29	93
CV0005U-CS	680-87318-30	91
CV0005U-CSD	680-87318-31	79
CV0005V-CS	680-87318-32	77
CV0005W-CS	680-87318-33	55
CV0005X-CS	680-87318-34	77
CV0005X-CSD	680-87318-35	87
CV0005Y-CS	680-87318-36	83
CV0005Z-CS	680-87318-37	80
CV0005Z-CSD	680-87318-38	80
CV0005AA-CS	680-87318-39	64
CV0005BB-CS	680-87318-40	81
	MB 660-134472/1-A	74
	MB 660-134486/1-A	94
	LCS 660-134472/2-A	75
	LCS 660-134486/2-A	79
	680-87279-A-21-B MS	71
CV0005Y-CS MS	680-87318-36 MS	91
	680-87279-A-21-C MSD	72
CV0005Y-CS MSD	680-87318-36 MSD	94

	QC LIMITS
OTPH = o-Terphenyl	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.: 680-87318-2

SDG No.: 68087318-2

Matrix: Solid Level: Low Lab File ID: 1CB15009.D

Lab ID: LCS 660-134472/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	655	485	74	39-130	
Acenaphthylene	655	498	76	38-130	
Anthracene	655	509	78	37-130	
Benzo[a]anthracene	655	507	77	40-130	
Benzo[a]pyrene	655	502	77	49-130	
Benzo[b]fluoranthene	655	521	80	37-130	
Benzo[g,h,i]perylene	655	463	71	32-130	
Benzo[k]fluoranthene	655	508	78	32-130	
Chrysene	655	462	70	41-130	
Dibenz(a,h)anthracene	655	453	69	27-130	
Fluoranthene	655	524	80	40-130	
Fluorene	655	489	75	40-130	
Indeno[1,2,3-cd]pyrene	655	420	64	30-130	
1-Methylnaphthalene	655	525	80	31-130	
2-Methylnaphthalene	655	478	73	33-130	
Naphthalene	655	481	73	36-130	
Phenanthrene	655	460	70	42-130	
Pyrene	655	538	82	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Matrix: Solid Level: Low Lab File ID: 1AB15033.D

Lab ID: LCS 660-134486/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	665	461	69	39-130	
Acenaphthylene	665	461	69	38-130	
Anthracene	665	479	72	37-130	
Benzo[a]anthracene	665	542	81	40-130	
Benzo[a]pyrene	665	364	55	49-130	
Benzo[b]fluoranthene	665	390	59	37-130	
Benzo[g,h,i]perylene	665	433	65	32-130	
Benzo[k]fluoranthene	665	428	64	32-130	
Chrysene	665	466	70	41-130	
Dibenz(a,h)anthracene	665	455	68	27-130	
Fluoranthene	665	525	79	40-130	
Fluorene	665	481	72	40-130	
Indeno[1,2,3-cd]pyrene	665	432	65	30-130	
1-Methylnaphthalene	665	531	80	31-130	
2-Methylnaphthalene	665	524	79	33-130	
Naphthalene	665	496	75	36-130	
Phenanthrene	665	463	70	42-130	
Pyrene	665	424	64	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Matrix: Solid Level: Low Lab File ID: 1CB15011.D

Lab ID: 680-87279-A-21-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	711	110 U	485	68	39-130	
Acenaphthylene	711	6.7 J	502	70	38-130	
Anthracene	711	6.8 J	505	70	37-130	
Benzo[a]anthracene	711	52	556	71	40-130	
Benzo[a]pyrene	711	50	533	68	49-130	
Benzo[b]fluoranthene	711	71	619	77	37-130	
Benzo[g,h,i]perylene	711	37	489	64	32-130	
Benzo[k]fluoranthene	711	40	475	61	32-130	
Chrysene	711	65	516	63	41-130	
Dibenz(a,h)anthracene	711	13 J	462	63	27-130	
Fluoranthene	711	82	602	73	40-130	
Fluorene	711	21 U	480	68	40-130	
Indeno[1,2,3-cd]pyrene	711	27	470	62	30-130	
1-Methylnaphthalene	711	20 J	540	73	31-130	
2-Methylnaphthalene	711	22 J	503	68	33-130	
Naphthalene	711	21 J	470	63	36-130	
Phenanthrene	711	43	501	64	42-130	
Pyrene	711	77	622	77	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Matrix: Solid Level: Low Lab File ID: 1AB15046.D

Lab ID: 680-87318-36 MS Client ID: CV0005Y-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	939	560 U	789	84	39-130	
Acenaphthylene	939	68 J	756	73	38-130	
Anthracene	939	140	901	81	37-130	
Benzo[a]anthracene	939	510	1240	78	40-130	
Benzo[a]pyrene	939	350	835	52	49-130	
Benzo[b]fluoranthene	939	610	1160	58	37-130	
Benzo[g,h,i]perylene	939	310	770	49	32-130	
Benzo[k]fluoranthene	939	210	720	54	32-130	
Chrysene	939	450	1040	63	41-130	
Dibenz(a,h)anthracene	939	140	737	64	27-130	
Fluoranthene	939	630	1250	66	40-130	
Fluorene	939	110 U	795	85	40-130	
Indeno[1,2,3-cd]pyrene	939	320	823	54	30-130	
1-Methylnaphthalene	939	190 J	1020	89	31-130	
2-Methylnaphthalene	939	230	979	80	33-130	
Naphthalene	939	170 J	871	74	36-130	
Phenanthrene	939	440	1090	69	42-130	
Pyrene	939	460	987	57	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Matrix: Solid Level: Low Lab File ID: 1CB15012.D

Lab ID: 680-87279-A-21-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	711	482	68	1	40	39-130	
Acenaphthylene	711	524	73	4	40	38-130	
Anthracene	711	516	72	2	40	37-130	
Benzo[a]anthracene	711	536	68	4	40	40-130	
Benzo[a]pyrene	711	517	66	3	40	49-130	
Benzo[b]fluoranthene	711	556	68	11	40	37-130	
Benzo[g,h,i]perylene	711	478	62	2	40	32-130	
Benzo[k]fluoranthene	711	557	73	16	40	32-130	
Chrysene	711	492	60	5	40	41-130	
Dibenz(a,h)anthracene	711	460	63	0	40	27-130	
Fluoranthene	711	587	71	3	40	40-130	
Fluorene	711	492	69	2	40	40-130	
Indeno[1,2,3-cd]pyrene	711	464	61	1	40	30-130	
1-Methylnaphthalene	711	546	74	1	40	31-130	
2-Methylnaphthalene	711	529	71	5	40	33-130	
Naphthalene	711	493	66	5	40	36-130	
Phenanthrene	711	486	62	3	40	42-130	
Pyrene	711	595	73	4	40	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Matrix: Solid Level: Low Lab File ID: 1AB15047.D

Lab ID: 680-87318-36 MSD Client ID: CV0005Y-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	928	871	94	10	40	39-130	
Acenaphthylene	928	877	87	15	40	38-130	
Anthracene	928	1290	124	35	40	37-130	
Benzo[a]anthracene	928	3040	273	84	40	40-130	F
Benzo[a]pyrene	928	1750	151	71	40	49-130	F
Benzo[b]fluoranthene	928	2540	208	75	40	37-130	F
Benzo[g,h,i]perylene	928	1190	95	43	40	32-130	F
Benzo[k]fluoranthene	928	1440	132	67	40	32-130	F
Chrysene	928	2340	203	77	40	41-130	F
Dibenz(a,h)anthracene	928	944	87	25	40	27-130	
Fluoranthene	928	4780	447	117	40	40-130	F
Fluorene	928	918	99	14	40	40-130	
Indeno[1,2,3-cd]pyrene	928	1250	100	41	40	30-130	F
1-Methylnaphthalene	928	962	84	6	40	31-130	
2-Methylnaphthalene	928	1010	84	3	40	33-130	
Naphthalene	928	844	72	3	40	36-130	
Phenanthrene	928	3040	280	94	40	42-130	F
Pyrene	928	2960	270	100	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Lab File ID: 1CB15008.D Lab Sample ID: MB 660-134472/1-A

Matrix: Solid Date Extracted: 02/14/2013 11:19

Instrument ID: BSMC5973 Date Analyzed: 02/15/2013 13:20

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134472/2-A	1CB15009.D	02/15/2013 13:38
	680-87279-A-21-B MS	1CB15011.D	02/15/2013 14:14
	680-87279-A-21-C MSD	1CB15012.D	02/15/2013 14:33
CV0005O-CS	680-87318-21	1CB15029.D	02/15/2013 19:45
CV0005O-CSD	680-87318-22	1CB15030.D	02/15/2013 20:03
CV0005Q-CS	680-87318-23	1CB15031.D	02/15/2013 20:21
CV0005P-CS	680-87318-24	1CB15032.D	02/15/2013 20:39

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Lab File ID: 1AB15032.D Lab Sample ID: MB 660-134486/1-A

Matrix: Solid Date Extracted: 02/14/2013 14:34

Instrument ID: BSMA5973 Date Analyzed: 02/15/2013 21:55

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134486/2-A	1AB15033.D	02/15/2013 22:10
CV0005R-CS	680-87318-25	1AB15034.D	02/15/2013 22:25
CV0005R-CSD	680-87318-26	1AB15035.D	02/15/2013 22:40
CV0005S-CS	680-87318-27	1AB15036.D	02/15/2013 22:55
CV0005T-CS	680-87318-28	1AB15037.D	02/15/2013 23:10
CV0005T-CSD	680-87318-29	1AB15038.D	02/15/2013 23:25
CV0005U-CS	680-87318-30	1AB15039.D	02/15/2013 23:40
CV0005U-CSD	680-87318-31	1AB15040.D	02/15/2013 23:56
CV0005X-CS	680-87318-34	1AB15043.D	02/16/2013 00:41
CV0005X-CSD	680-87318-35	1AB15044.D	02/16/2013 00:56
CV0005Y-CS	680-87318-36	1AB15045.D	02/16/2013 01:11
CV0005Y-CS MS	680-87318-36 MS	1AB15046.D	02/16/2013 01:26
CV0005Y-CS MSD	680-87318-36 MSD	1AB15047.D	02/16/2013 01:41
CV0005Z-CS	680-87318-37	1AB15048.D	02/16/2013 01:57
CV0005Z-CSD	680-87318-38	1AB15049.D	02/16/2013 02:12
CV0005AA-CS	680-87318-39	1AB15050.D	02/16/2013 02:27
CV0005BB-CS	680-87318-40	1AB15051.D	02/16/2013 02:42
CV0005V-CS	680-87318-32	1CB18005.D	02/18/2013 14:47
CV0005W-CS	680-87318-33	1CB18006.D	02/18/2013 15:05

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Lab File ID: 1AA30002.D DFTPP Injection Date: 01/30/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 11:20

Analysis Batch No.: 133924

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	40.7	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	43.7	
70	Less than 2.0 % of mass 69	0.7	(1.7)1
127	10.0 - 80.0 % of mass 198	44.2	
197	Less than 2.0 % of mass 198	1.7	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.9	
275	10.0 - 60.0 % of mass 198	23.5	
365	Greater than 1.0 % of mass 198	1.9	
441	Present but less than mass 443	8.6	
442	Greater than 50.0 % of mass 198	63.7	
443	15.0 - 24.0 % of mass 442	13.6	(21.3)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
	ICIS 660-133924/3	1AA30003.D	01/30/2013	11:38
	IC 660-133924/4	1AA30004.D	01/30/2013	12:04
	IC 660-133924/5	1AA30005.D	01/30/2013	12:19
	IC 660-133924/6	1AA30006.D	01/30/2013	12:34
	IC 660-133924/7	1AA30007.D	01/30/2013	12:49
	IC 660-133924/8	1AA30008.D	01/30/2013	13:04
	IC 660-133924/9	1AA30009.D	01/30/2013	13:20
	ICV 660-133924/10	1AA30010.D	01/30/2013	13:35

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Lab File ID: 1AB15005.D DFTPP Injection Date: 02/15/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 15:08

Analysis Batch No.: 134532

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	34.0	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	40.4	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	38.8	
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	5.7	
275	10.0 - 60.0 % of mass 198	27.6	
365	Greater than 1.0 % of mass 198	6.0	
441	Present but less than mass 443	13.2	
442	Greater than 50.0 % of mass 198	84.0	
443	15.0 - 24.0 % of mass 442	13.3	(15.8)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134532/8	1AB15006.D	02/15/2013	15:21
	MB 660-134486/1-A	1AB15032.D	02/15/2013	21:55
	LCS 660-134486/2-A	1AB15033.D	02/15/2013	22:10
CV0005R-CS	680-87318-25	1AB15034.D	02/15/2013	22:25
CV0005R-CSD	680-87318-26	1AB15035.D	02/15/2013	22:40
CV0005S-CS	680-87318-27	1AB15036.D	02/15/2013	22:55
CV0005T-CS	680-87318-28	1AB15037.D	02/15/2013	23:10
CV0005T-CSD	680-87318-29	1AB15038.D	02/15/2013	23:25
CV0005U-CS	680-87318-30	1AB15039.D	02/15/2013	23:40
CV0005U-CSD	680-87318-31	1AB15040.D	02/15/2013	23:56
CV0005X-CS	680-87318-34	1AB15043.D	02/16/2013	00:41
CV0005X-CSD	680-87318-35	1AB15044.D	02/16/2013	00:56
CV0005Y-CS	680-87318-36	1AB15045.D	02/16/2013	01:11
CV0005Y-CS MS	680-87318-36 MS	1AB15046.D	02/16/2013	01:26
CV0005Y-CS MSD	680-87318-36 MSD	1AB15047.D	02/16/2013	01:41
CV0005Z-CS	680-87318-37	1AB15048.D	02/16/2013	01:57
CV0005Z-CSD	680-87318-38	1AB15049.D	02/16/2013	02:12
CV0005AA-CS	680-87318-39	1AB15050.D	02/16/2013	02:27
CV0005BB-CS	680-87318-40	1AB15051.D	02/16/2013	02:42

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Lab File ID: 1CA07002.D DFTPP Injection Date: 01/07/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:23

Analysis Batch No.: 133227

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	32.5	
68	Less than 2.0 % of mass 69	0.4	(1.1)1
69	Mass 69 relative abundance	39.9	
70	Less than 2.0 % of mass 69	0.4	(1.0)1
127	10.0 - 80.0 % of mass 198	46.8	
197	Less than 2.0 % of mass 198	1.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.2	
275	10.0 - 60.0 % of mass 198	23.0	
365	Greater than 1.0 % of mass 198	3.1	
441	Present but less than mass 443	13.3	
442	Greater than 50.0 % of mass 198	90.1	
443	15.0 - 24.0 % of mass 442	17.2	(19.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-133227/3	1CA07013.D	01/07/2013	15:23
	IC 660-133227/4	1CA07014.D	01/07/2013	15:41
	IC 660-133227/5	1CA07015.D	01/07/2013	15:59
	IC 660-133227/6	1CA07016.D	01/07/2013	16:18
	ICIS 660-133227/7	1CA07017.D	01/07/2013	16:36
	IC 660-133227/8	1CA07018.D	01/07/2013	16:54
	IC 660-133227/9	1CA07019.D	01/07/2013	17:13
	ICV 660-133227/10	1CA07020.D	01/07/2013	17:31

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Lab File ID: 1CB15003.D DFTPP Injection Date: 02/15/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:40

Analysis Batch No.: 134530

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	32.9	
68	Less than 2.0 % of mass 69	0.5	(1.1)1
69	Mass 69 relative abundance	43.5	
70	Less than 2.0 % of mass 69	0.4	(0.8)1
127	10.0 - 80.0 % of mass 198	46.7	
197	Less than 2.0 % of mass 198	0.9	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	7.4	
275	10.0 - 60.0 % of mass 198	22.9	
365	Greater than 1.0 % of mass 198	2.5	
441	Present but less than mass 443	10.9	
442	Greater than 50.0 % of mass 198	71.8	
443	15.0 - 24.0 % of mass 442	16.0	(22.2)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 660-134530/4	1CB15004.D	02/15/2013	11:56
	MB 660-134472/1-A	1CB15008.D	02/15/2013	13:20
	LCS 660-134472/2-A	1CB15009.D	02/15/2013	13:38
	680-87279-A-21-B MS	1CB15011.D	02/15/2013	14:14
	680-87279-A-21-C MSD	1CB15012.D	02/15/2013	14:33
CV0005O-CS	680-87318-21	1CB15029.D	02/15/2013	19:45
CV0005O-CSD	680-87318-22	1CB15030.D	02/15/2013	20:03
CV0005Q-CS	680-87318-23	1CB15031.D	02/15/2013	20:21
CV0005P-CS	680-87318-24	1CB15032.D	02/15/2013	20:39

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Lab File ID: 1CB18002.D DFTPP Injection Date: 02/18/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 13:50

Analysis Batch No.: 134598

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	35.2	
68	Less than 2.0 % of mass 69	0.7	(1.6)1
69	Mass 69 relative abundance	45.8	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	46.1	
197	Less than 2.0 % of mass 198	1.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.5	
275	10.0 - 60.0 % of mass 198	22.1	
365	Greater than 1.0 % of mass 198	3.3	
441	Present but less than mass 443	10.8	
442	Greater than 50.0 % of mass 198	73.1	
443	15.0 - 24.0 % of mass 442	13.6	(18.5)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134598/3	1CB18003.D	02/18/2013	14:07
CV0005V-CS	680-87318-32	1CB18005.D	02/18/2013	14:47
CV0005W-CS	680-87318-33	1CB18006.D	02/18/2013	15:05

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Sample No.: ICIS 660-133924/3 Date Analyzed: 01/30/2013 11:38

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

Lab File ID (Standard): 1AA30003.D Heated Purge: (Y/N) N

Calibration ID: 2712

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1356829	2.51	769245	3.54	1169097	4.50
UPPER LIMIT		2713658	3.01	1538490	4.04	2338194	5.00
LOWER LIMIT		678415	2.01	384623	3.04	584549	4.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133924/10		1317903	2.51	820848	3.54	1272419	4.50

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Sample No.: ICIS 660-133924/3 Date Analyzed: 01/30/2013 11:38

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

Lab File ID (Standard): 1AA30003.D Heated Purge: (Y/N) N

Calibration ID: 2712

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		942927	6.54	892108	7.64		
UPPER LIMIT		1885854	7.04	1784216	8.14		
LOWER LIMIT		471464	6.04	446054	7.14		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133924/10		1032149	6.54	982321	7.64		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Sample No.: CCVIS 660-134532/8 Date Analyzed: 02/15/2013 15:21

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

Lab File ID (Standard): 1AB15006.D Heated Purge: (Y/N) N

Calibration ID: 2712

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1368017	2.42	840321	3.44	1266854	4.39
UPPER LIMIT		2736034	2.92	1680642	3.94	2533708	4.89
LOWER LIMIT		684009	1.92	420161	2.94	633427	3.89
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134486/1-A		799893	2.42	542307	3.45	810431	4.39
LCS 660-134486/2-A		867392	2.42	567376	3.45	882209	4.39
680-87318-25	CV0005R-CS	761354	2.42	509792	3.45	783670	4.39
680-87318-26	CV0005R-CSD	736416	2.42	478044	3.45	737147	4.39
680-87318-27	CV0005S-CS	723591	2.42	505002	3.45	758678	4.39
680-87318-28	CV0005T-CS	720029	2.42	525695	3.45	761201	4.40
680-87318-29	CV0005T-CSD	730236	2.42	498064	3.45	757328	4.39
680-87318-30	CV0005U-CS	696003	2.42	483583	3.45	743047	4.39
680-87318-31	CV0005U-CSD	714271	2.42	498357	3.45	745015	4.39
680-87318-34	CV0005X-CS	757125	2.43	559421	3.45	808352	4.40
680-87318-35	CV0005X-CSD	737175	2.43	529340	3.45	774284	4.40
680-87318-36	CV0005Y-CS	738991	2.43	523970	3.45	783296	4.39
680-87318-36 MS	CV0005Y-CS MS	722867	2.42	513391	3.45	772680	4.40
680-87318-36 MSD	CV0005Y-CS MSD	736143	2.43	505040	3.45	790652	4.40
680-87318-37	CV0005Z-CS	706412	2.43	501226	3.45	778337	4.40
680-87318-38	CV0005Z-CSD	725763	2.42	514407	3.45	816887	4.39
680-87318-39	CV0005AA-CS	714567	2.43	525834	3.45	840091	4.40
680-87318-40	CV0005BB-CS	689877	2.43	506508	3.45	790102	4.40

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Sample No.: CCVIS 660-134532/8 Date Analyzed: 02/15/2013 15:21

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

Lab File ID (Standard): 1AB15006.D Heated Purge: (Y/N) N

Calibration ID: 2712

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1066498	6.41	1048533	7.50		
UPPER LIMIT		2132996	6.91	2097066	8.00		
LOWER LIMIT		533249	5.91	524267	7.00		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134486/1-A		663251	6.42	765255	7.52		
LCS 660-134486/2-A		862612	6.42	811068	7.52		
680-87318-25	CV0005R-CS	661052	6.42	793286	7.52		
680-87318-26	CV0005R-CSD	658459	6.42	790699	7.52		
680-87318-27	CV0005S-CS	623185	6.42	773822	7.52		
680-87318-28	CV0005T-CS	630316	6.42	793933	7.53		
680-87318-29	CV0005T-CSD	660749	6.42	835058	7.52		
680-87318-30	CV0005U-CS	661453	6.42	789419	7.52		
680-87318-31	CV0005U-CSD	667381	6.42	784034	7.52		
680-87318-34	CV0005X-CS	721065	6.43	887706	7.53		
680-87318-35	CV0005X-CSD	701453	6.43	849866	7.53		
680-87318-36	CV0005Y-CS	696446	6.42	835502	7.53		
680-87318-36 MS	CV0005Y-CS MS	677975	6.43	821479	7.53		
680-87318-36 MSD	CV0005Y-CS MSD	738892	6.43	856519	7.53		
680-87318-37	CV0005Z-CS	700686	6.43	830279	7.53		
680-87318-38	CV0005Z-CSD	732011	6.42	837564	7.53		
680-87318-39	CV0005AA-CS	800696	6.43	816566	7.53		
680-87318-40	CV0005BB-CS	767304	6.43	812313	7.53		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Sample No.: ICIS 660-133227/7 Date Analyzed: 01/07/2013 16:36

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

Lab File ID (Standard): 1CA07017.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2194838	3.87	1653478	4.96	3141284	5.92
UPPER LIMIT		4389676	4.37	3306956	5.46	6282568	6.42
LOWER LIMIT		1097419	3.37	826739	4.46	1570642	5.42
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133227/10		2417094	3.87	1838803	4.96	3573060	5.92

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Sample No.: ICIS 660-133227/7 Date Analyzed: 01/07/2013 16:36

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

Lab File ID (Standard): 1CA07017.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		3787207	7.87	3790527	9.11		
UPPER LIMIT		7574414	8.37	7581054	9.61		
LOWER LIMIT		1893604	7.37	1895264	8.61		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133227/10		4267463	7.87	4342564	9.12		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Sample No.: CCVIS 660-134530/4 Date Analyzed: 02/15/2013 11:56

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

Lab File ID (Standard): 1CB15004.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2569302	3.82	1996632	4.91	3819499	5.86
UPPER LIMIT		5138604	4.32	3993264	5.41	7638998	6.36
LOWER LIMIT		1284651	3.32	998316	4.41	1909750	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134472/1-A		2663358	3.82	2068260	4.91	3931766	5.86
LCS 660-134472/2-A		2307582	3.82	1791084	4.91	3388620	5.86
680-87279-A-21-B MS		2438858	3.82	1896166	4.90	3573845	5.86
680-87279-A-21-C MSD		2500394	3.82	1945760	4.91	3614241	5.86
680-87318-21	CV0005O-CS	2549164	3.82	1987828	4.91	3552041	5.86
680-87318-22	CV0005O-CSD	2377483	3.82	1837547	4.91	3312482	5.86
680-87318-23	CV0005Q-CS	2520388	3.82	1954717	4.91	3457909	5.86
680-87318-24	CV0005P-CS	2644487	3.82	2034572	4.91	3557972	5.86

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Sample No.: CCVIS 660-134530/4 Date Analyzed: 02/15/2013 11:56

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

Lab File ID (Standard): 1CB15004.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4339487	7.82	4016358	9.04		
UPPER LIMIT		8678974	8.32	8032716	9.54		
LOWER LIMIT		2169744	7.32	2008179	8.54		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134472/1-A		4251050	7.81	4056698	9.03		
LCS 660-134472/2-A		3830695	7.81	3622690	9.03		
680-87279-A-21-B MS		3794962	7.81	3691062	9.03		
680-87279-A-21-C MSD		3979657	7.81	3723416	9.03		
680-87318-21	CV0005O-CS	3522456	7.81	3278308	9.03		
680-87318-22	CV0005O-CSD	3391869	7.81	3179541	9.03		
680-87318-23	CV0005Q-CS	3541747	7.81	3254375	9.03		
680-87318-24	CV0005P-CS	3534366	7.81	3297985	9.03		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Sample No.: CCVIS 660-134598/3 Date Analyzed: 02/18/2013 14:07

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

Lab File ID (Standard): 1CB18003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2084677	3.82	1616631	4.90	3184282	5.86
UPPER LIMIT		4169354	4.32	3233262	5.40	6368564	6.36
LOWER LIMIT		1042339	3.32	808316	4.40	1592141	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87318-32	CV0005V-CS	1847095	3.82	1464408	4.90	2728823	5.86
680-87318-33	CV0005W-CS	2362031	3.82	1846523	4.90	3498565	5.86

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

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Sample No.: CCVIS 660-134598/3 Date Analyzed: 02/18/2013 14:07

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

Lab File ID (Standard): 1CB18003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3977138	7.81	3965161	9.03		
UPPER LIMIT		7954276	8.31	7930322	9.53		
LOWER LIMIT		1988569	7.31	1982581	8.53		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87318-32	CV0005V-CS	3212100	7.80	3249115	9.02		
680-87318-33	CV0005W-CS	3918953	7.80	3936003	9.03		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005O-CS | Lab Sample ID: 680-87318-21

Matrix: Solid | Lab File ID: 1CB15029.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 13:45

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.25(g) | Date Analyzed: 02/15/2013 19:45

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

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

% Moisture: 5.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	17	J	42	5.2
120-12-7	Anthracene	26		8.7	4.4
56-55-3	Benzo[a]anthracene	180		8.3	4.1
50-32-8	Benzo[a]pyrene	180		11	5.4
205-99-2	Benzo[b]fluoranthene	310		13	6.3
191-24-2	Benzo[g,h,i]perylene	130		21	4.6
207-08-9	Benzo[k]fluoranthene	97		8.3	3.7
218-01-9	Chrysene	190		9.4	4.7
53-70-3	Dibenz(a,h)anthracene	39		21	4.3
206-44-0	Fluoranthene	320		21	4.2
86-73-7	Fluorene	8.0	J	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	100		21	7.4
90-12-0	1-Methylnaphthalene	39	J	42	4.6
91-57-6	2-Methylnaphthalene	50		42	7.4
91-20-3	Naphthalene	44		42	4.6
85-01-8	Phenanthrene	130		8.3	4.1
129-00-0	Pyrene	300		21	3.8

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15029.D
Lab Smp Id: 680-87318-A-21-A Client Smp ID: CV0005O-CS
Inj Date : 15-FEB-2013 19:45
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-21-a
Misc Info : 680-87318-A-21-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	5.353	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2549164	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1987828	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3552041	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	322684	6.20003	429.5551
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3522456	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3278308	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	42631	0.63111	43.7248
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	31575	0.71888	49.8061
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	22578	0.56520	39.1587
5 Acenaphthylene	152	4.821	4.821	(0.982)	19904	0.25168	17.4371
9 Fluorene	166	5.251	5.245	(1.069)	7324	0.11503	7.9696(Q)
11 Phenanthrene	178	5.880	5.880	(1.003)	202697	1.91177	132.4523
12 Anthracene	178	5.910	5.910	(1.008)	36111	0.37802	26.1904
13 Carbazole	167	6.015	6.015	(1.026)	25308	0.30500	21.1315

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	472273	4.55853	315.8269
16 Pyrene	202	6.886	6.886	(0.882)	404933	4.31807	299.1675
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	259047	2.66683	184.7653
19 Chrysene	228	7.833	7.833	(1.003)	280478	2.79536	193.6701
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	355575	4.42404	306.5092(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	123503	1.39481	96.6359(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	203992	2.66727	184.7953
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	109680	1.49311	103.4469(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	38900	0.56156	38.9063
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	134640	1.80439	125.0132

QC Flag Legend

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

Data File: 1CB15029.D

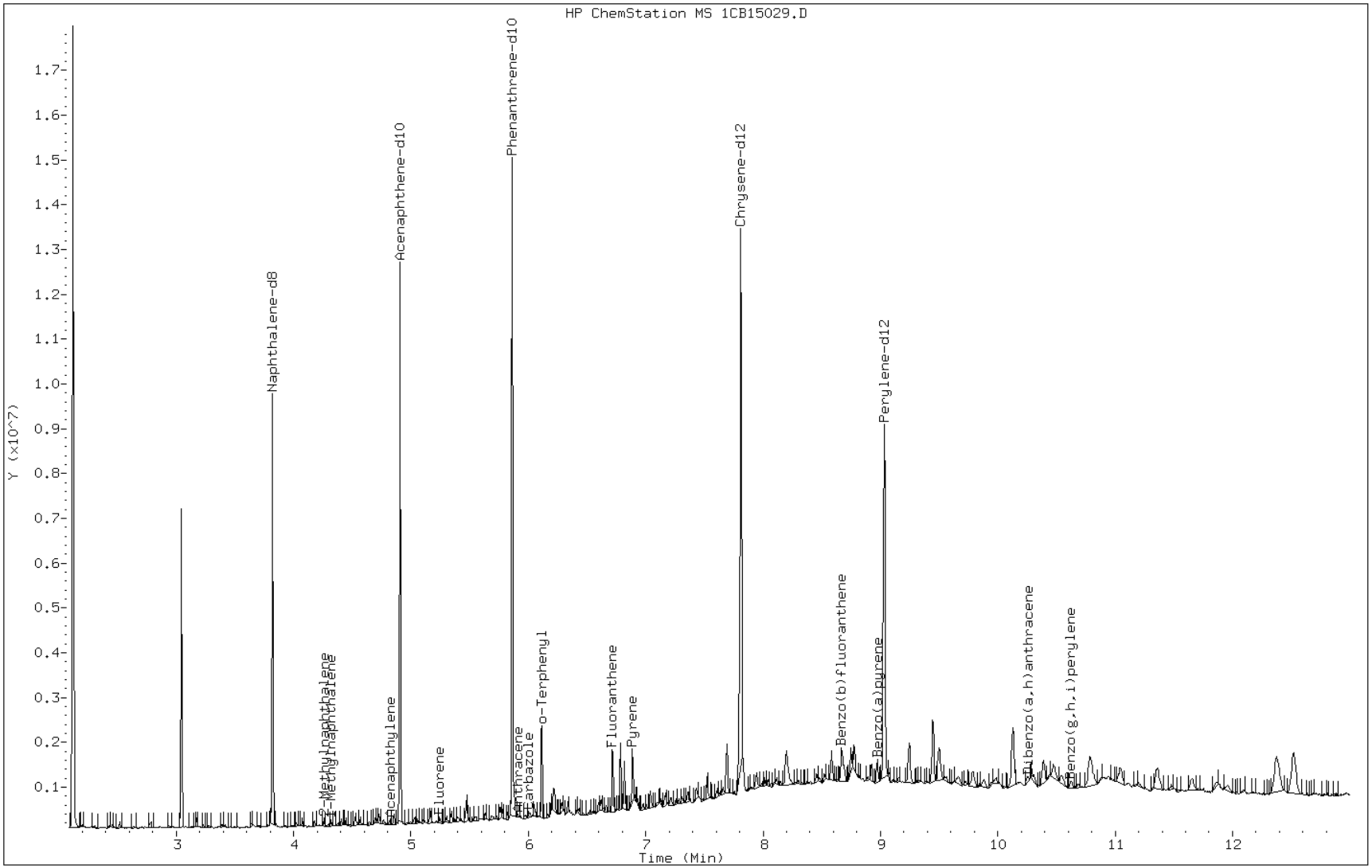
Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a

Operator: SCC



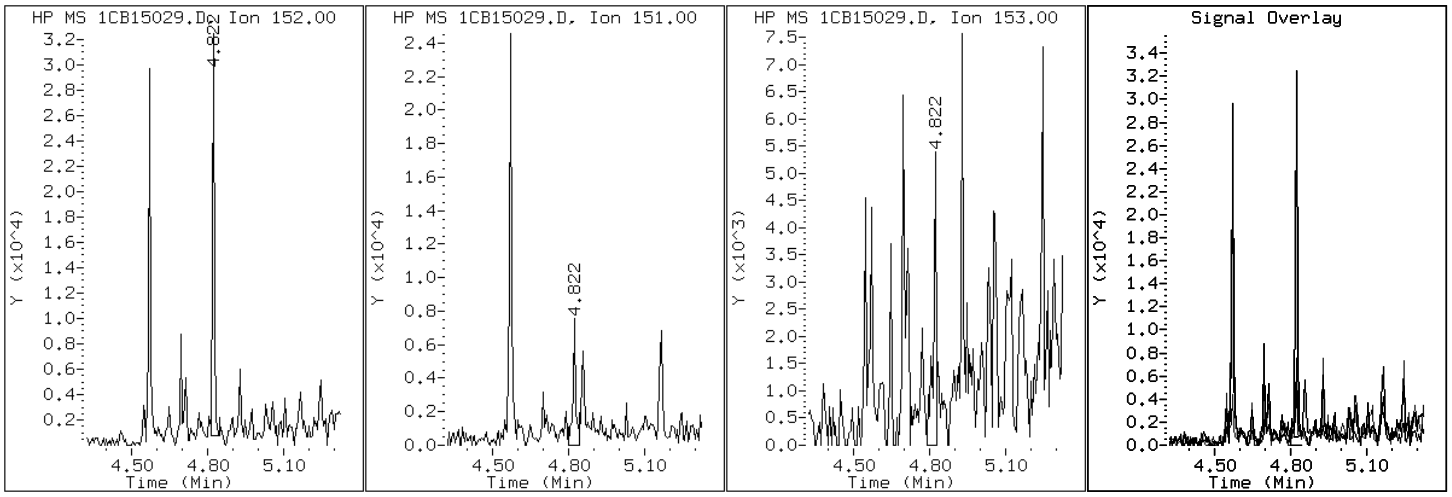
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

5 Acenaphthylene



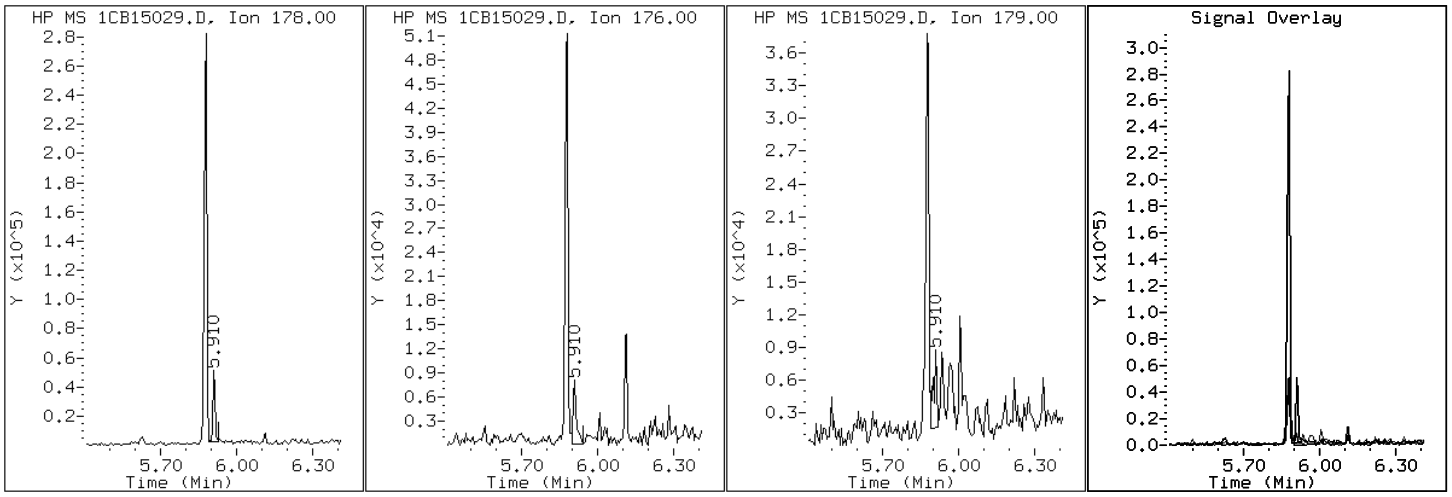
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

12 Anthracene



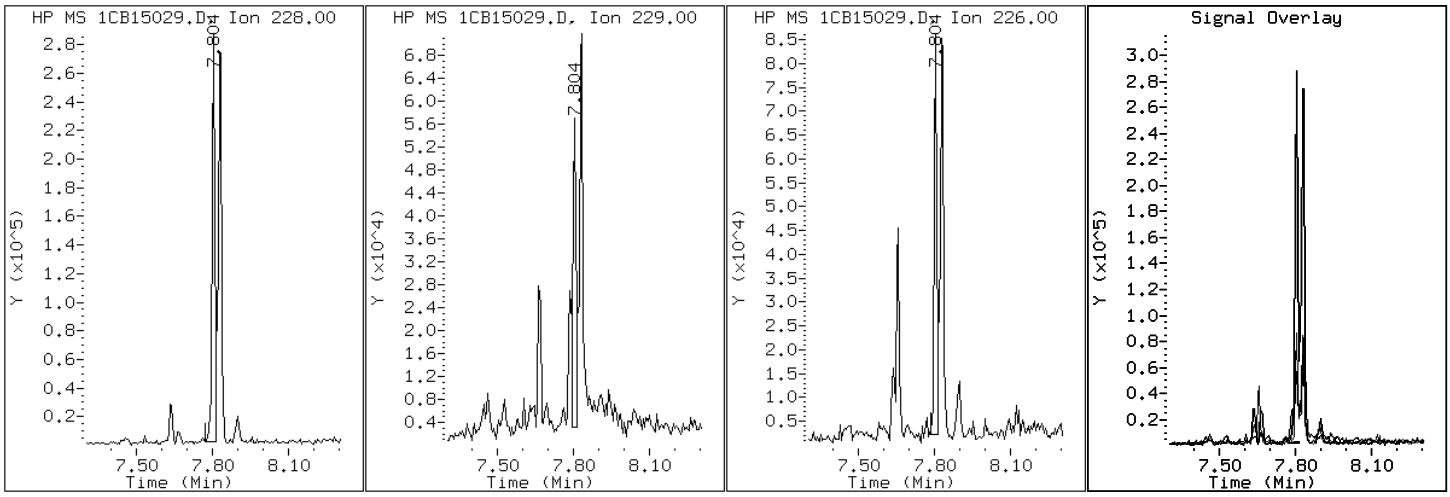
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

17 Benzo(a)anthracene



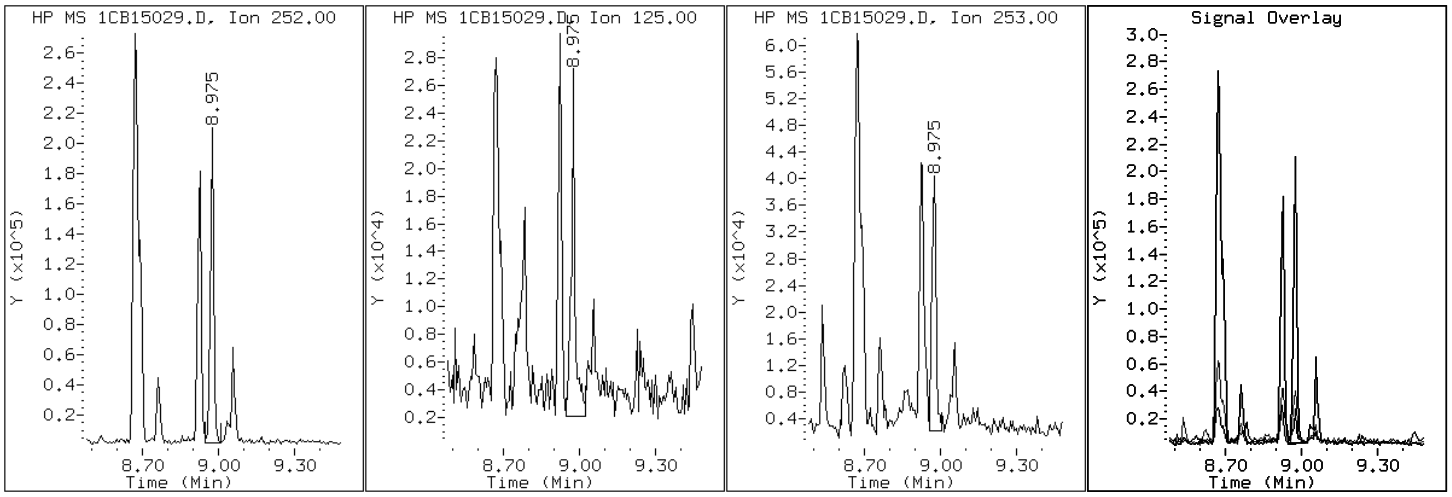
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

22 Benzo(a)pyrene



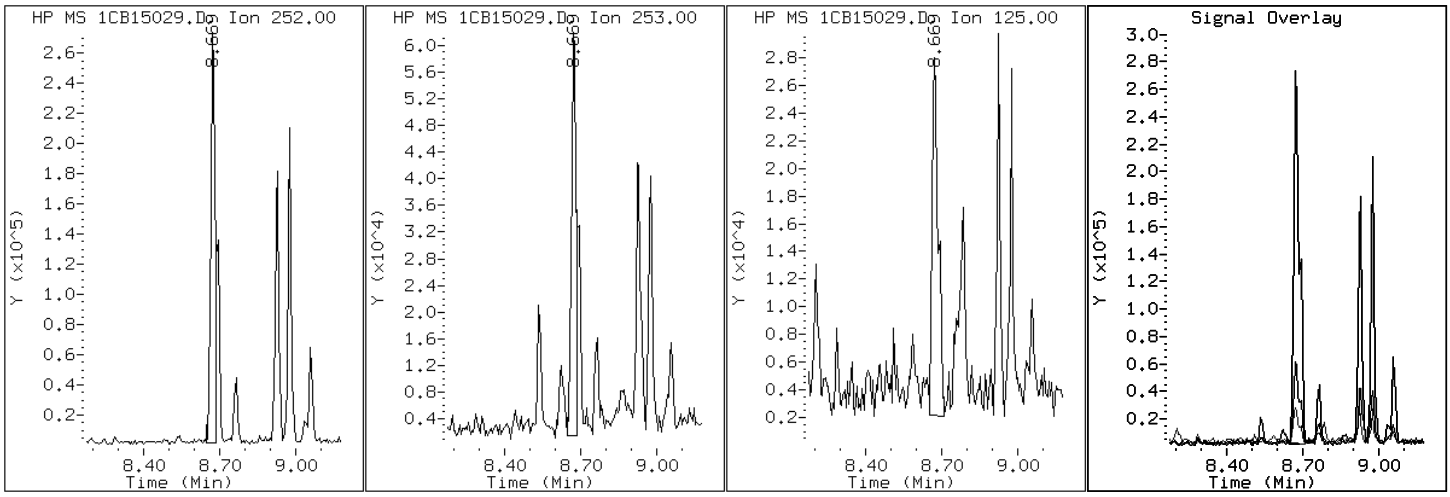
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

20 Benzo(b)fluoranthene



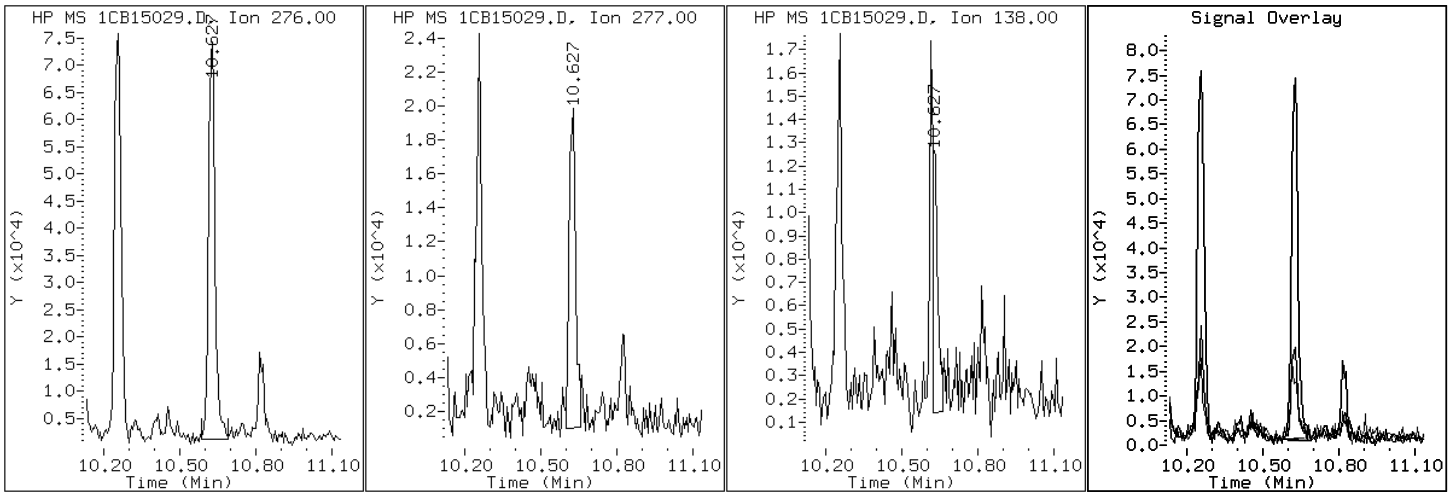
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

26 Benzo(g,h,i)perylene



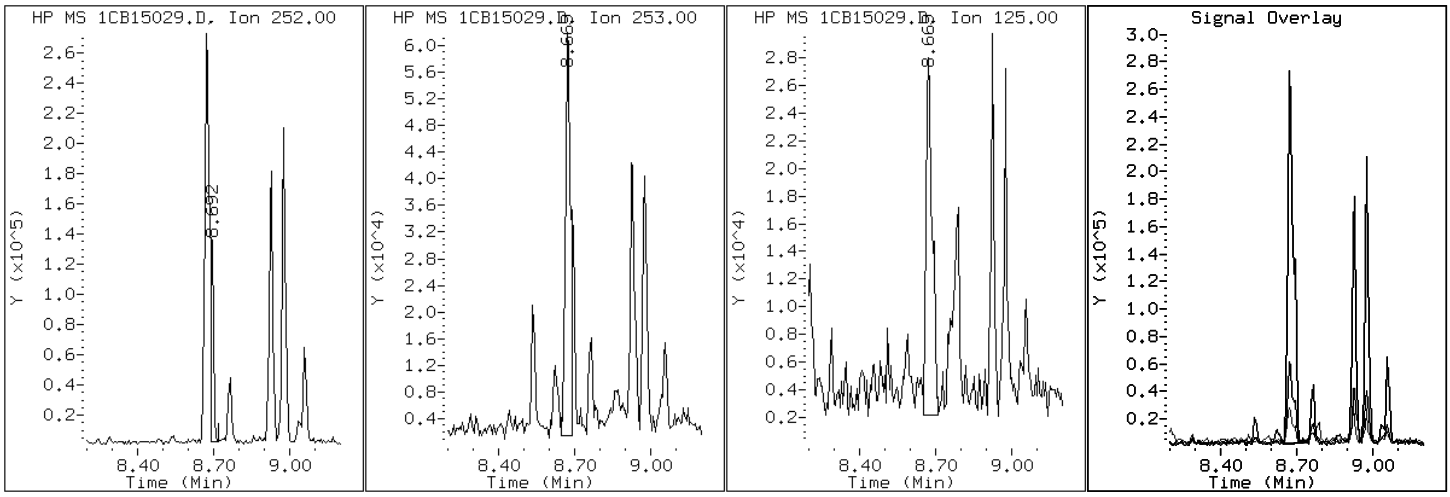
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

21 Benzo(k)fluoranthene



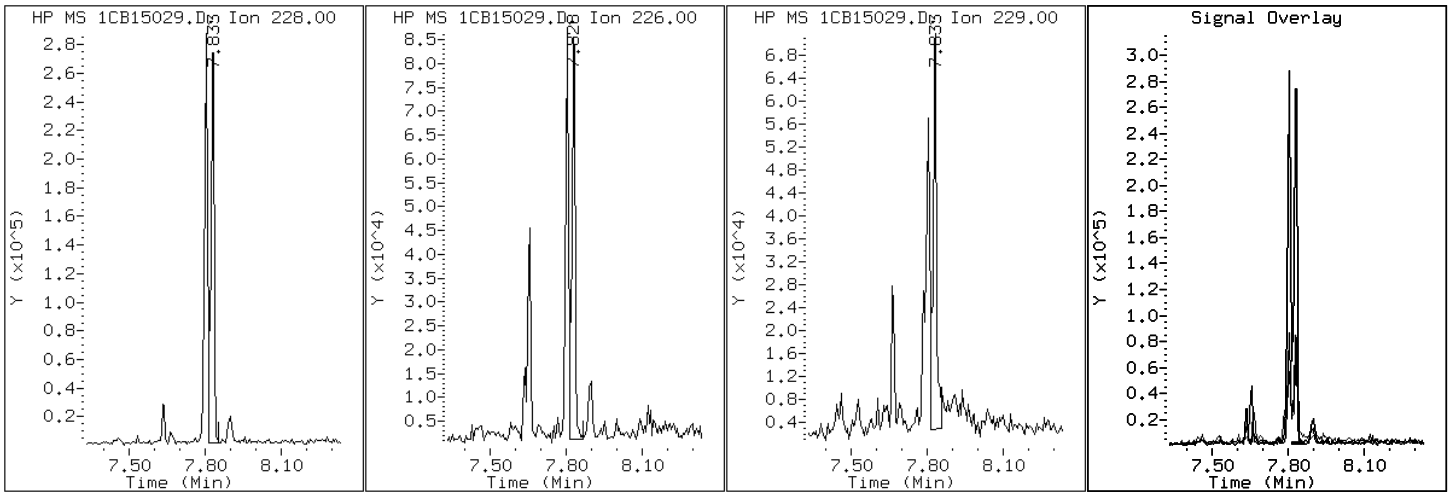
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

19 Chrysene



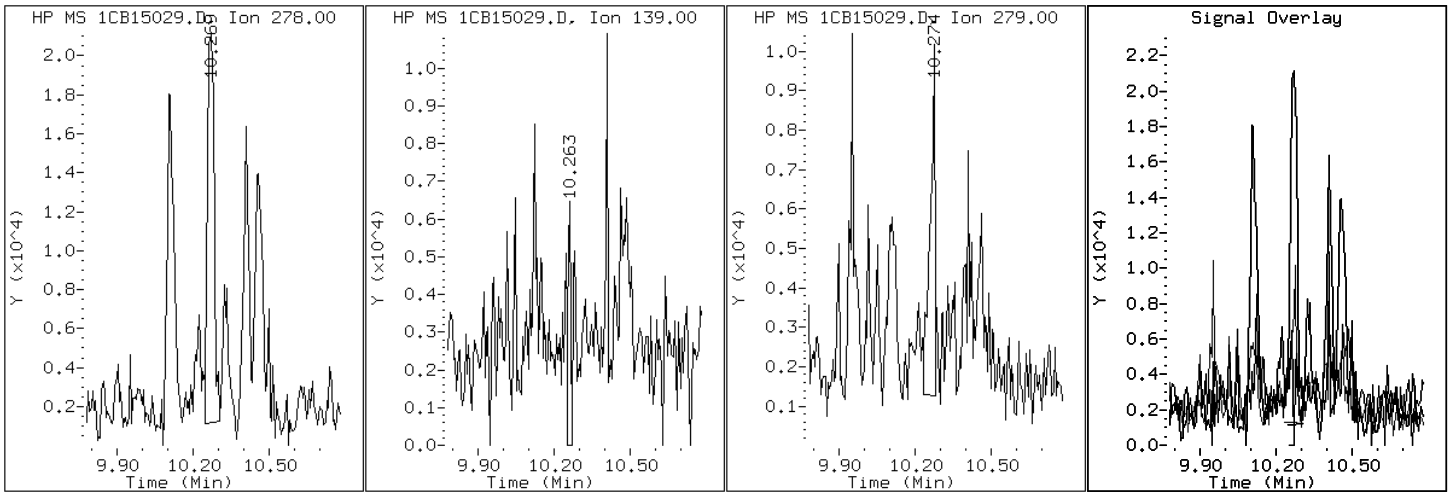
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

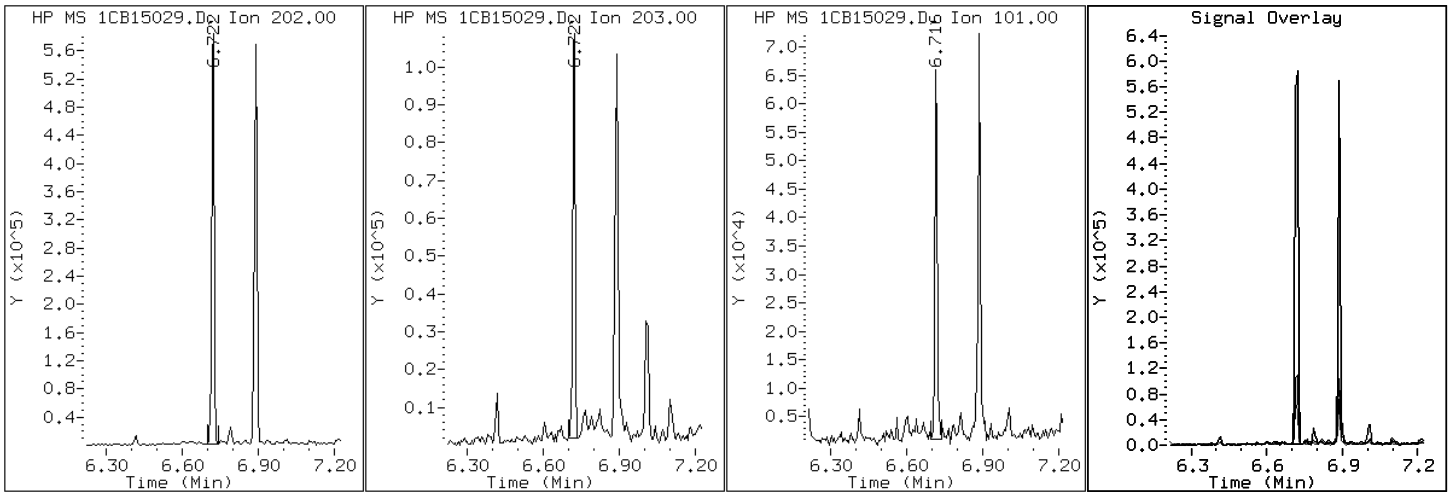
Client ID: CV0005O-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a

Operator: SCC

15 Fluoranthene



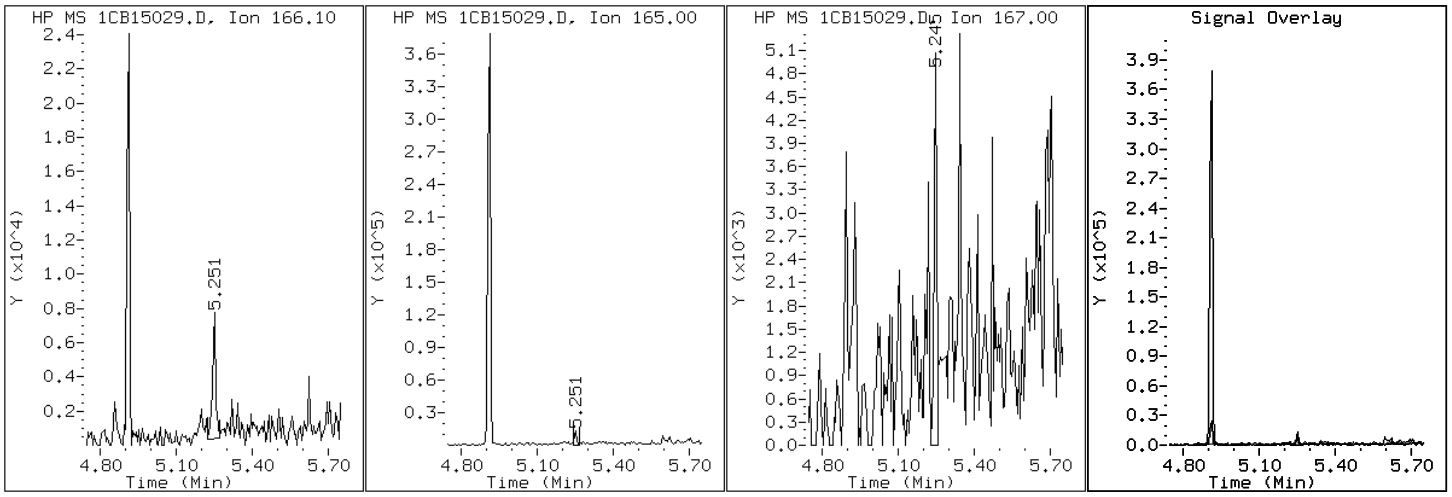
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

9 Fluorene



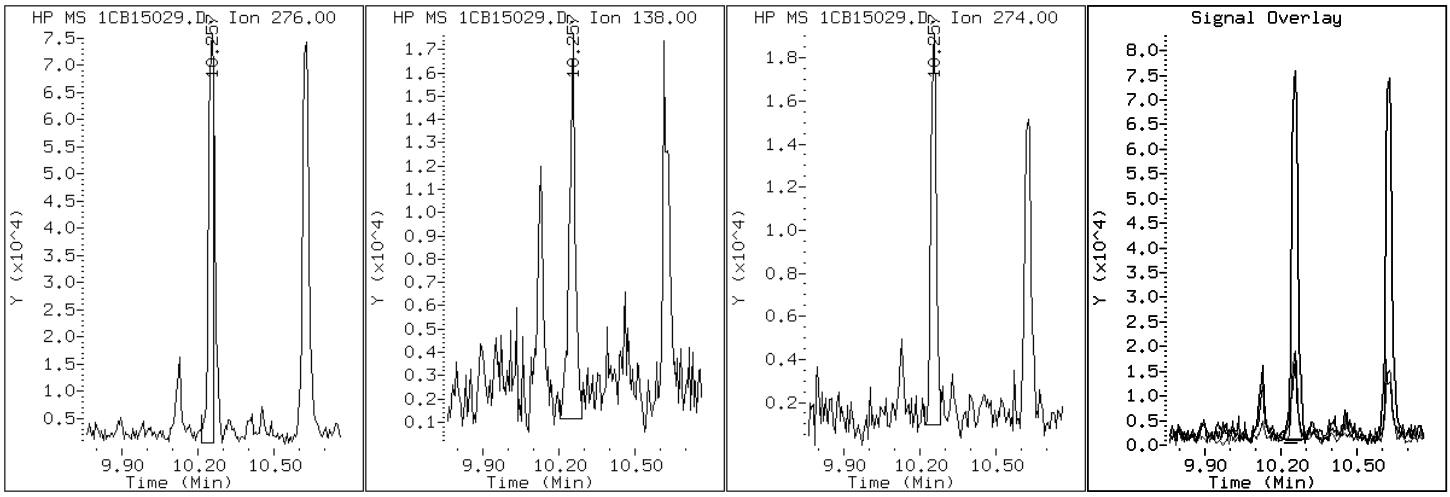
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

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



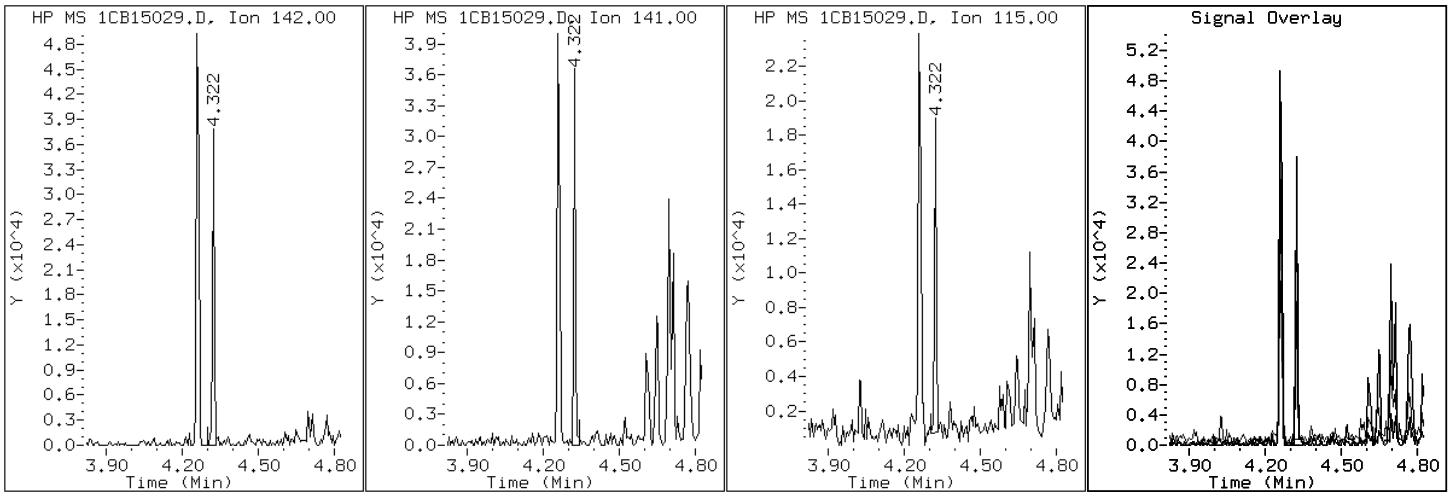
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

4 1-Methylnaphthalene



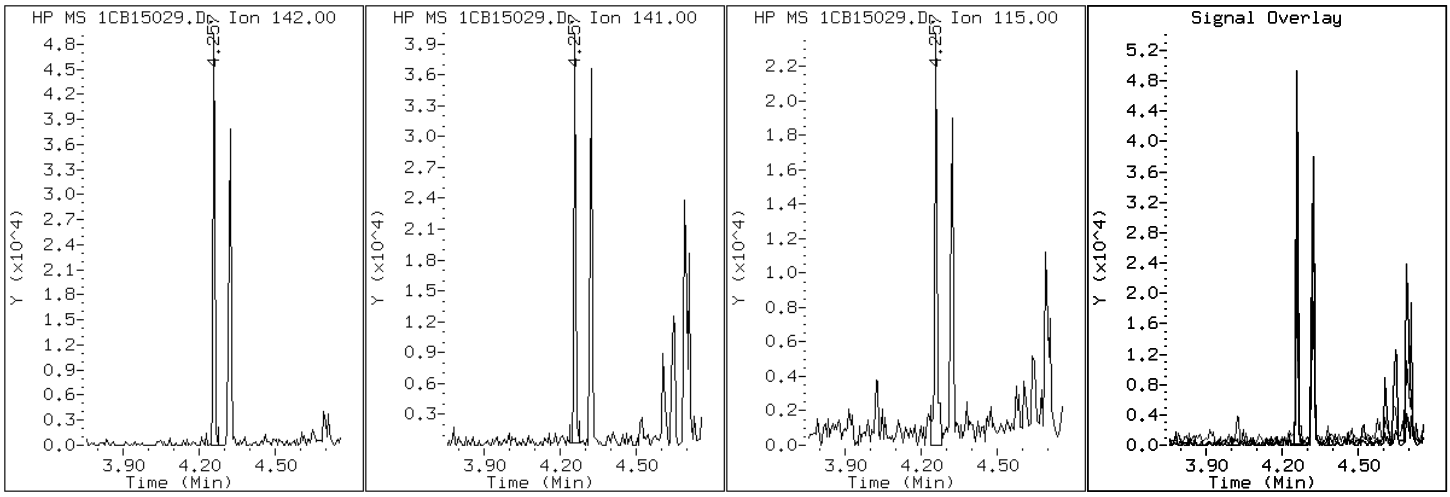
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

3 2-Methylnaphthalene



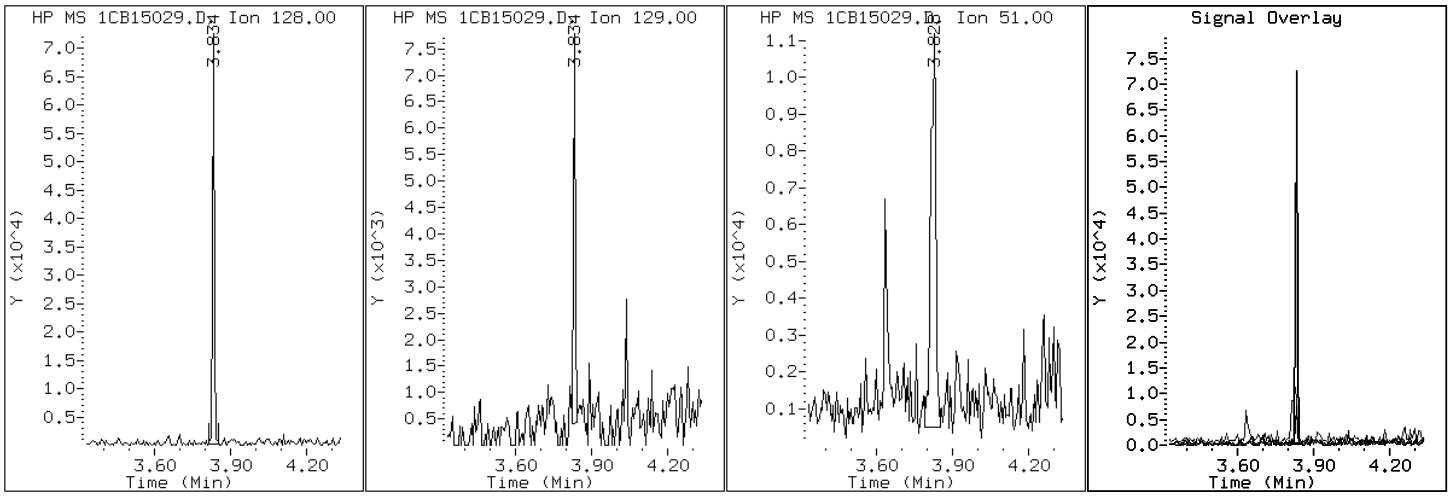
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

2 Naphthalene



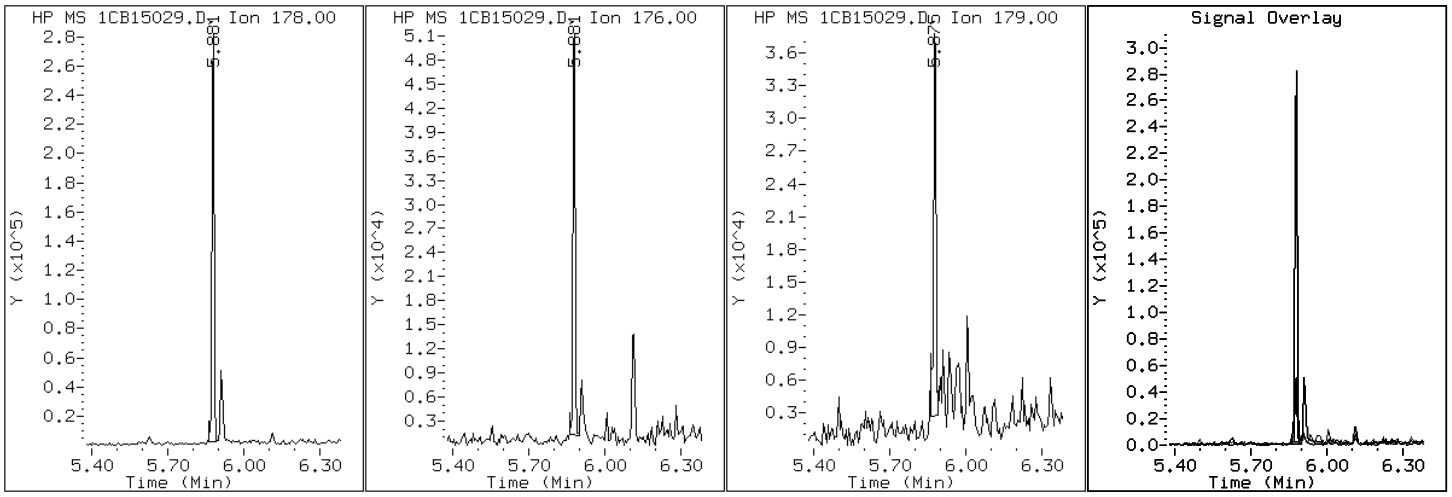
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

11 Phenanthrene



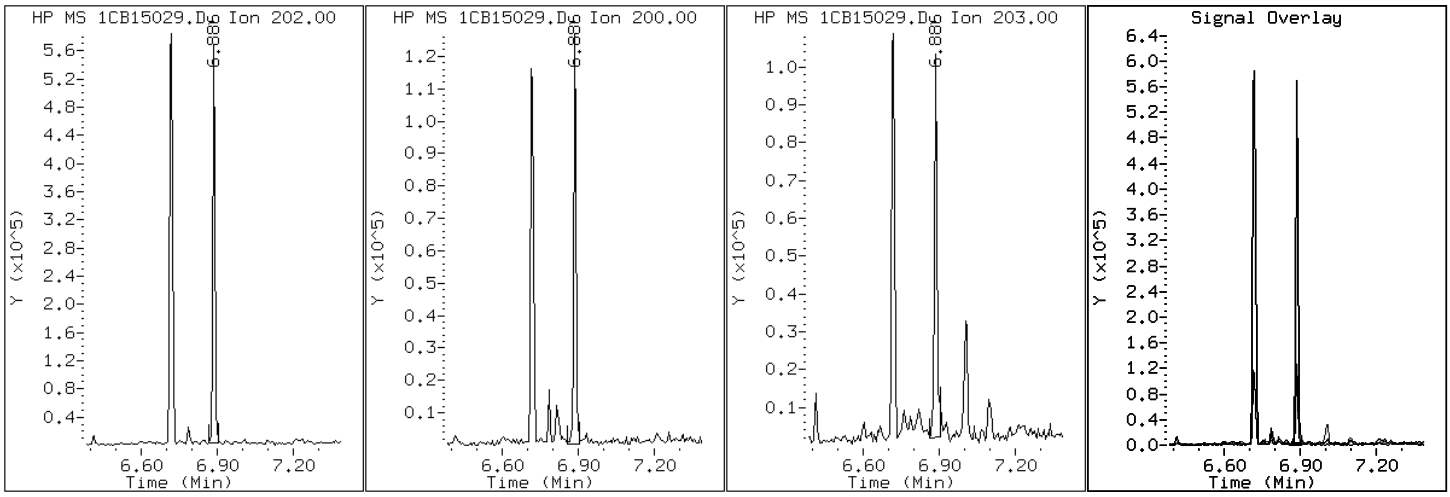
Data File: 1CB15029.D

Date: 15-FEB-2013 19:45

Client ID: CV0005O-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-21-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15029.D
Inj. Date and Time: 15-FEB-2013 19:45
Instrument ID: BSMC5973.i
Client ID: CV0005O-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

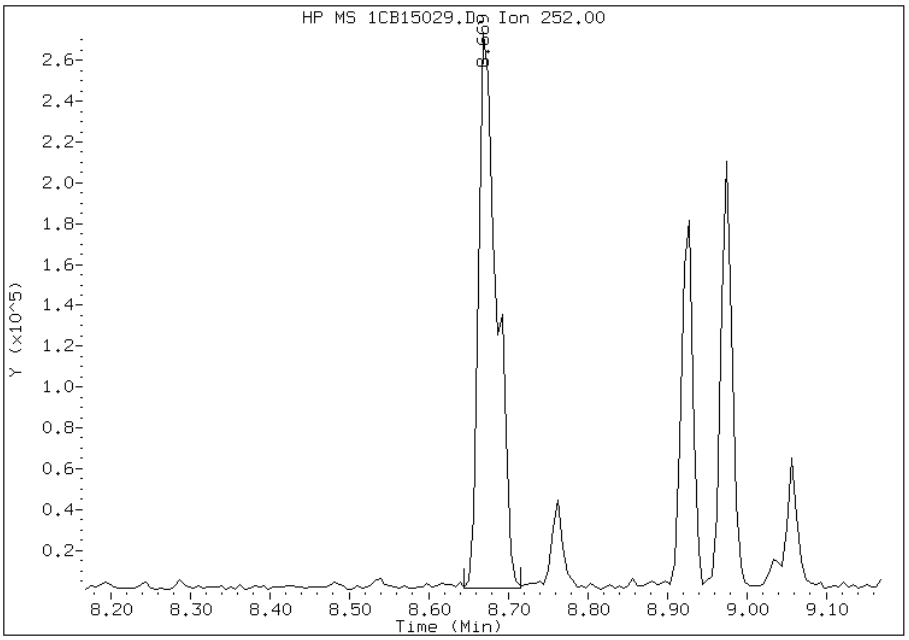
Processing Integration Results

RT: 8.67

Response: 436944

Amount: 5

Conc: 377



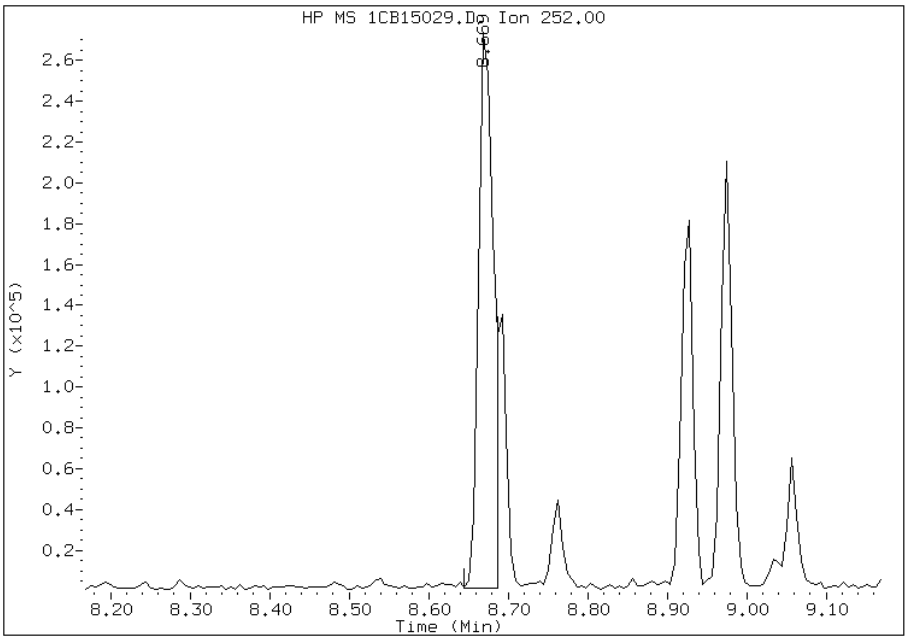
Manual Integration Results

RT: 8.67

Response: 355575

Amount: 4

Conc: 307



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:18
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15029.D
Inj. Date and Time: 15-FEB-2013 19:45
Instrument ID: BSMC5973.i
Client ID: CV0005O-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

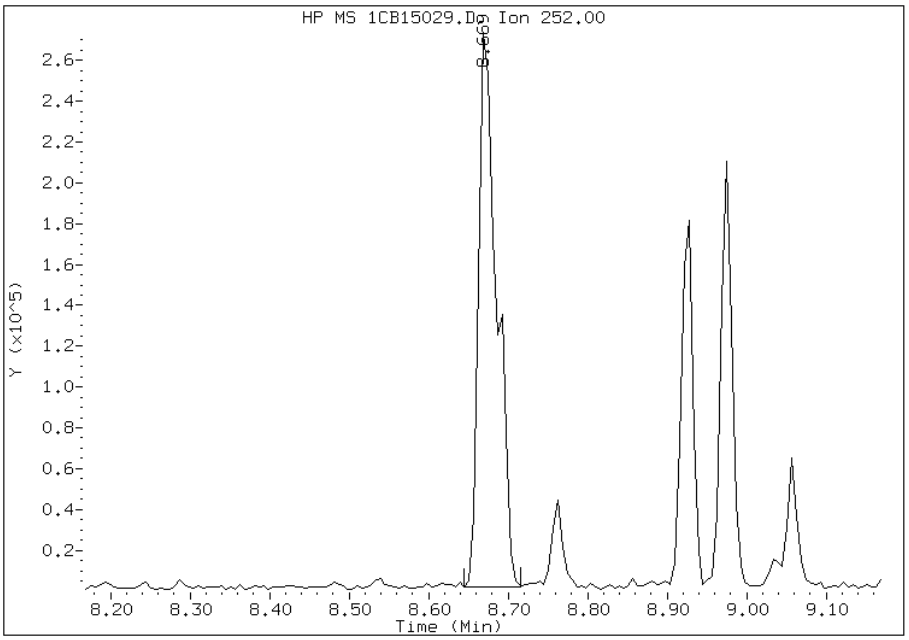
Processing Integration Results

RT: 8.67

Response: 436043

Amount: 5

Conc: 341



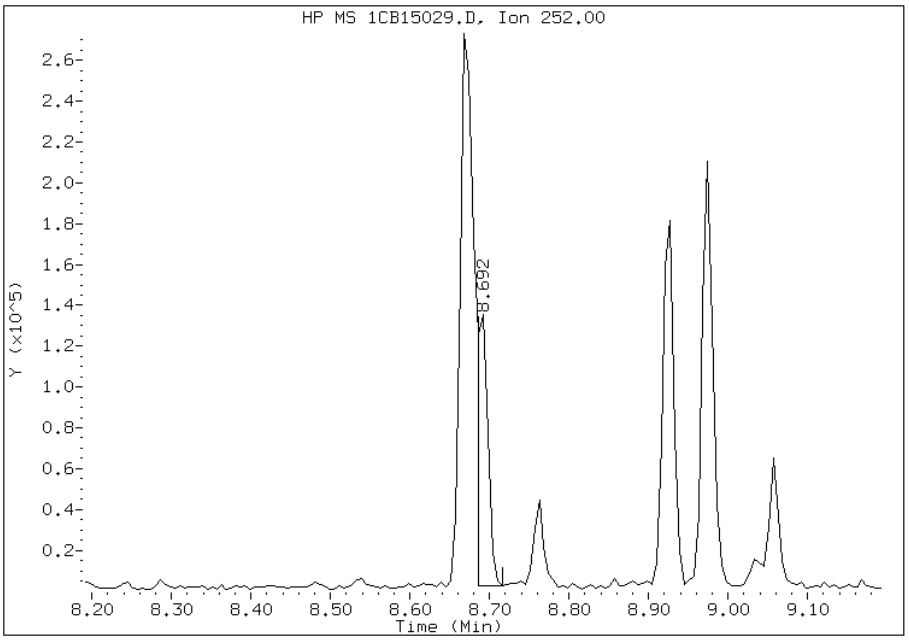
Manual Integration Results

RT: 8.69

Response: 123503

Amount: 1

Conc: 97



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15029.D
Inj. Date and Time: 15-FEB-2013 19:45
Instrument ID: BSMC5973.i
Client ID: CV0005O-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

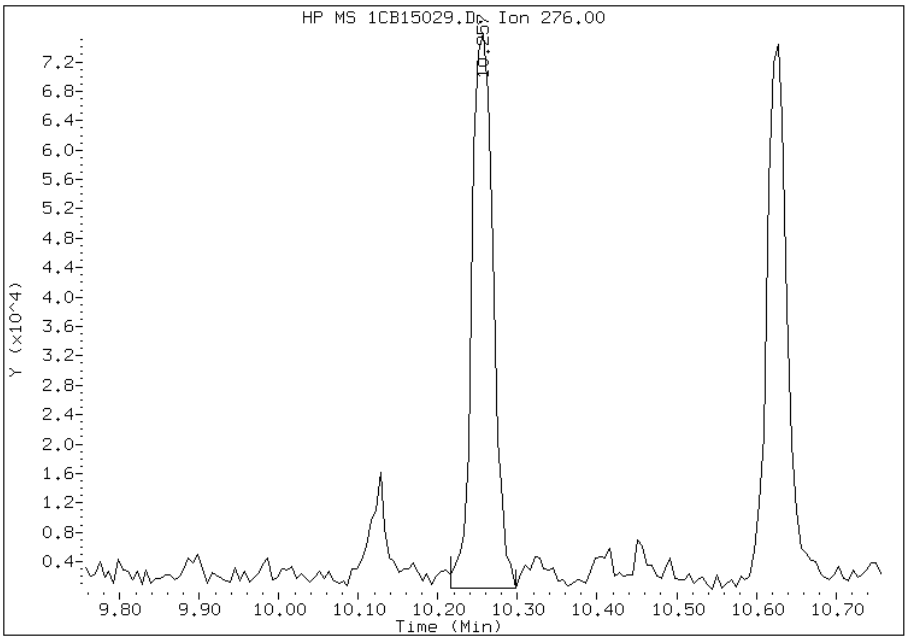
Processing Integration Results

RT: 10.26

Response: 139881

Amount: 2

Conc: 132



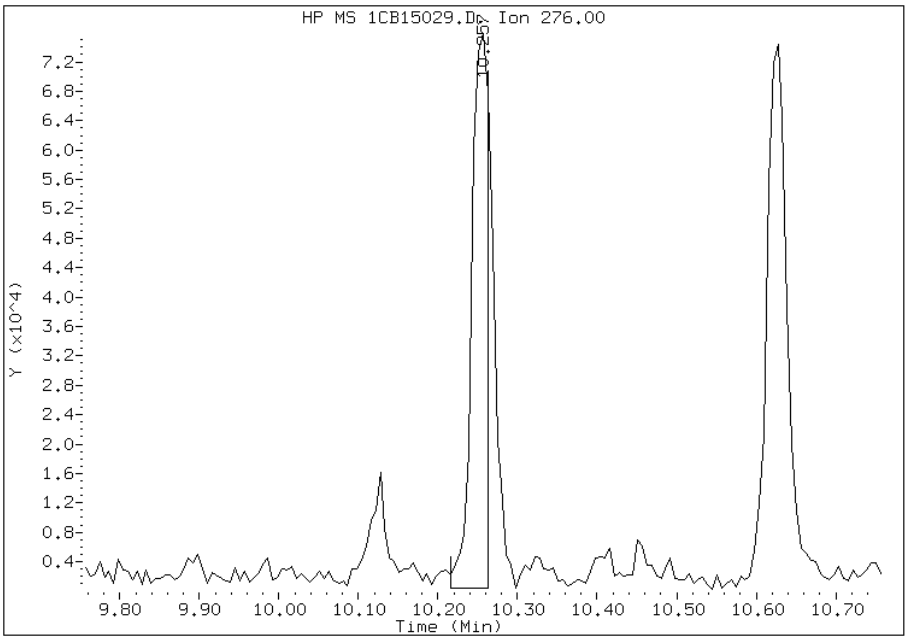
Manual Integration Results

RT: 10.26

Response: 109680

Amount: 1

Conc: 103



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005O-CSD | Lab Sample ID: 680-87318-22

Matrix: Solid | Lab File ID: 1CB15030.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 13:47

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.05(g) | Date Analyzed: 02/15/2013 20:03

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

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

% Moisture: 8.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	6.7	J	44	5.5
120-12-7	Anthracene	26		9.2	4.6
56-55-3	Benzo[a]anthracene	85		8.8	4.3
50-32-8	Benzo[a]pyrene	75		11	5.7
205-99-2	Benzo[b]fluoranthene	120		13	6.7
191-24-2	Benzo[g,h,i]perylene	65		22	4.8
207-08-9	Benzo[k]fluoranthene	38		8.8	3.9
218-01-9	Chrysene	93		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	13	J	22	4.5
206-44-0	Fluoranthene	180		22	4.4
86-73-7	Fluorene	8.4	J	22	4.5
193-39-5	Indeno[1,2,3-cd]pyrene	47		22	7.8
90-12-0	1-Methylnaphthalene	100		44	4.8
91-57-6	2-Methylnaphthalene	100		44	7.8
91-20-3	Naphthalene	57		44	4.8
85-01-8	Phenanthrene	120		8.8	4.3
129-00-0	Pyrene	150		22	4.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	67		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15030.D
Lab Smp Id: 680-87318-A-22-A Client Smp ID: CV0005O-CSD
Inj Date : 15-FEB-2013 20:03
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-22-a
Misc Info : 680-87318-A-22-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	8.884	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.822	3.821	(1.000)	2377483	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1837547	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3312482	40.0000	
$ 14 o-Terphenyl	230	6.116	6.115	(1.043)	323275	6.66060	485.7147
* 18 Chrysene-d12	240	7.810	7.815	(1.000)	3391869	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3179541	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	49239	0.78157	56.9948
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	58648	1.43169	104.4037
4 1-Methylnaphthalene	142	4.322	4.321	(1.131)	52894	1.41973	103.5317
5 Acenaphthylene	152	4.822	4.821	(0.982)	6687	0.09147	6.6703
9 Fluorene	166	5.245	5.245	(1.068)	6783	0.11525	8.4041
11 Phenanthrene	178	5.874	5.880	(1.002)	164712	1.66586	121.4801
12 Anthracene	178	5.910	5.910	(1.008)	31997	0.35918	26.1926
13 Carbazole	167	6.016	6.015	(1.026)	23783	0.30735	22.4133

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	232027	2.40156	175.1306
16 Pyrene	202	6.886	6.886	(0.882)	190814	2.11312	154.0959
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	109626	1.17203	85.4683
19 Chrysene	228	7.827	7.833	(1.002)	122598	1.26890	92.5330
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	131272	1.68401	122.8041(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	44536	0.51860	37.8182(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	76454	1.03072	75.1634
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	45794	0.64278	46.8735(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	12273	0.18268	13.3213(M)
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	64086	0.88553	64.5763(M)

QC Flag Legend

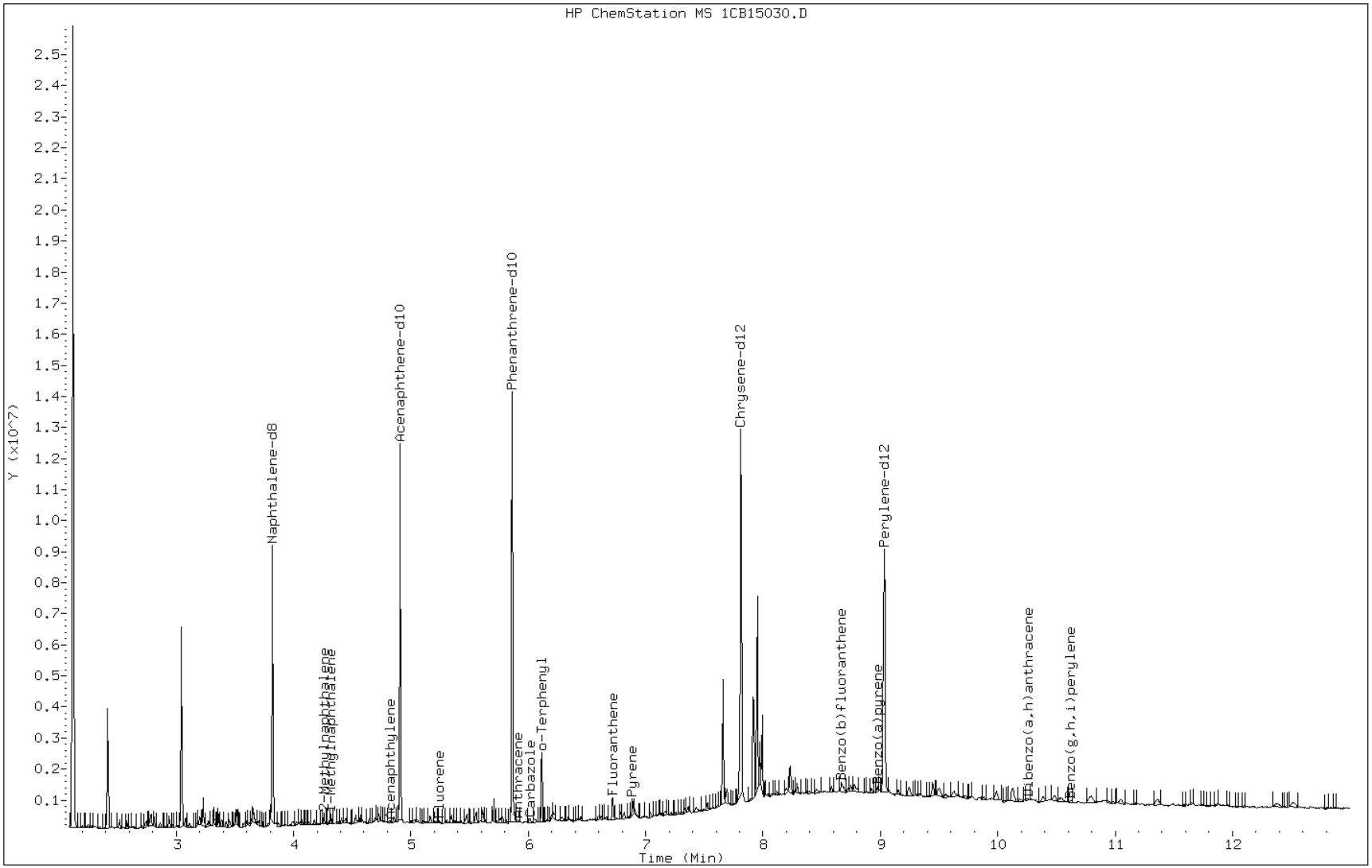
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC



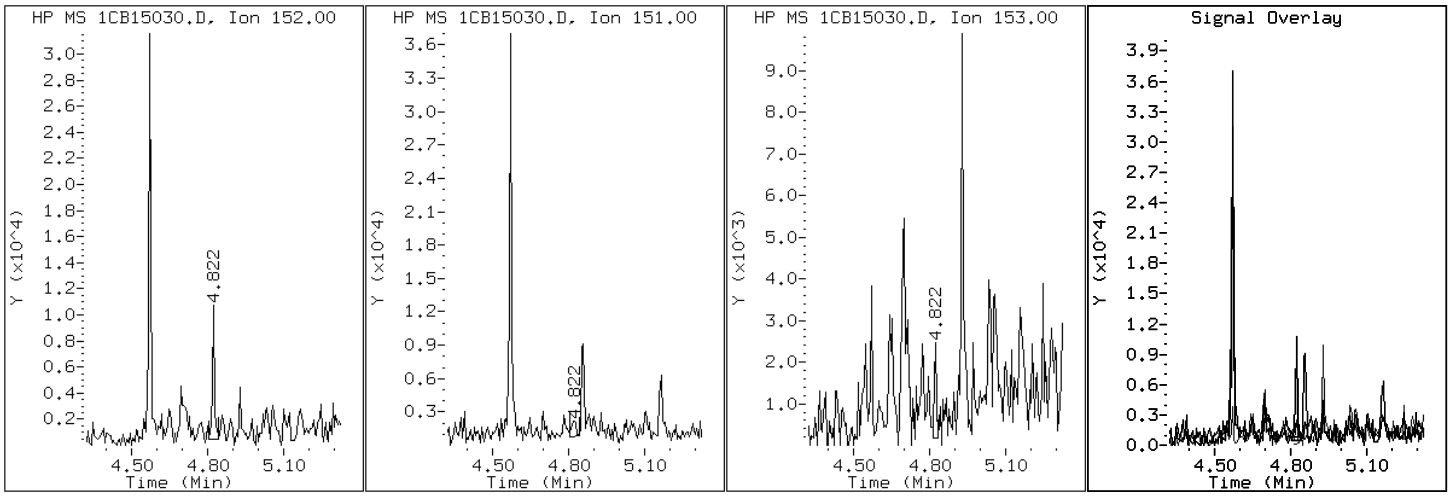
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

5 Acenaphthylene



Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

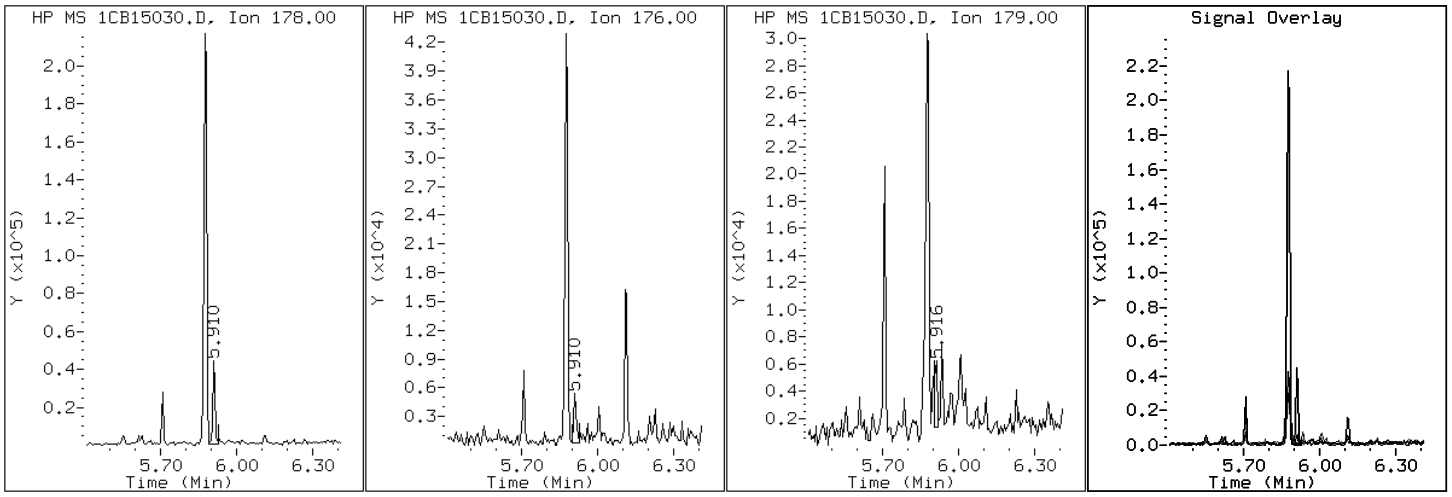
Client ID: CV0005O-CSD

Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a

Operator: SCC

12 Anthracene



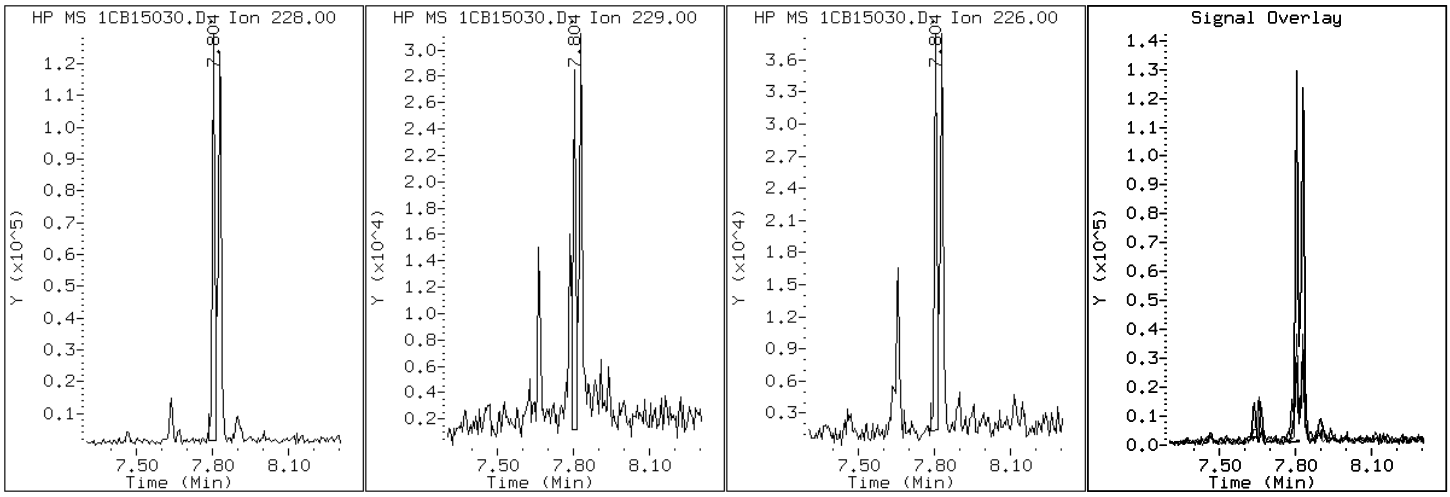
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

17 Benzo(a)anthracene



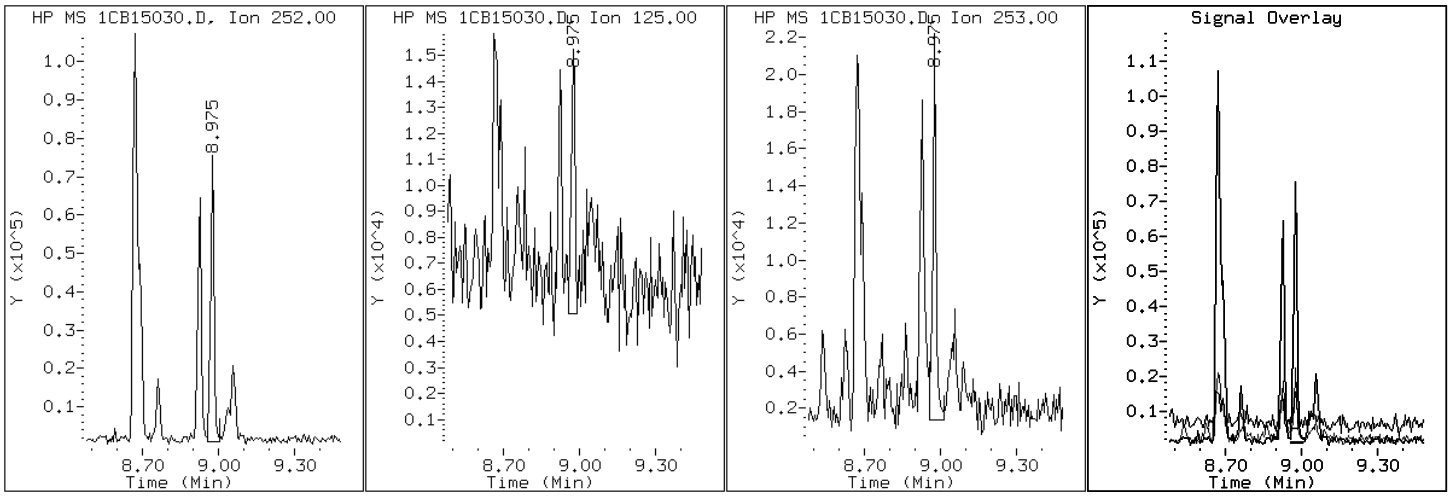
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

22 Benzo(a)pyrene



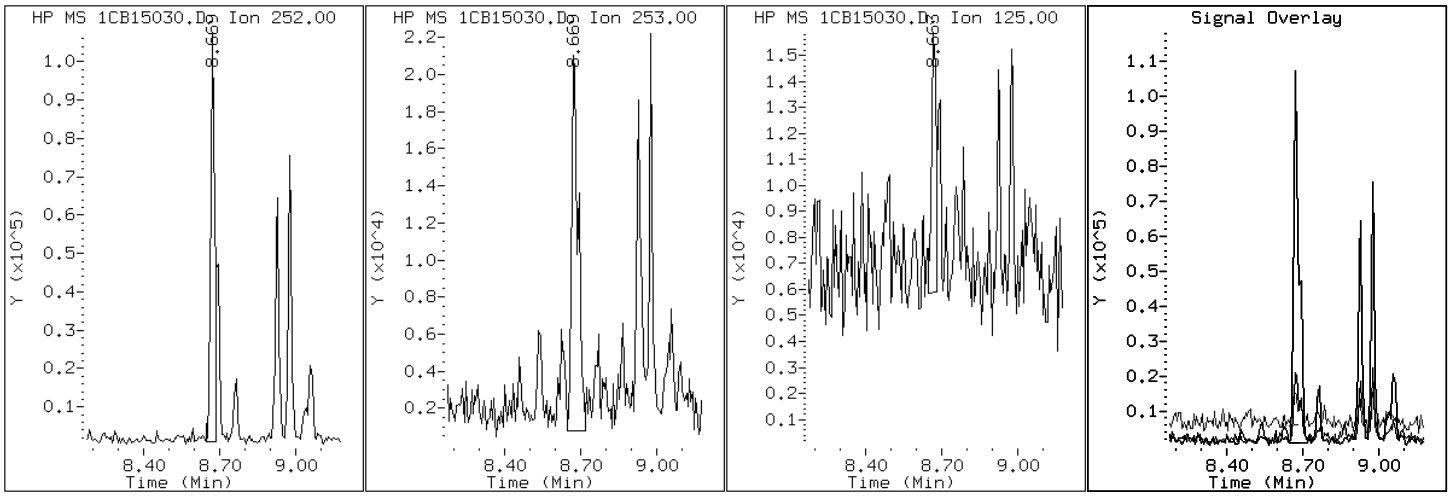
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

20 Benzo(b)fluoranthene



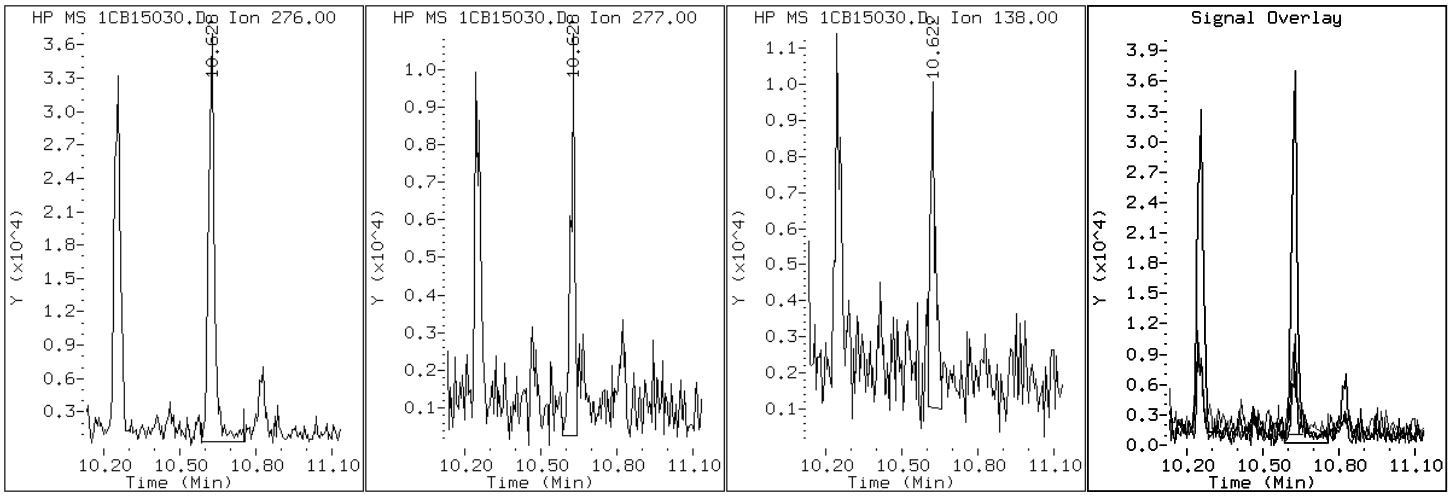
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

26 Benzo(g,h,i)perylene



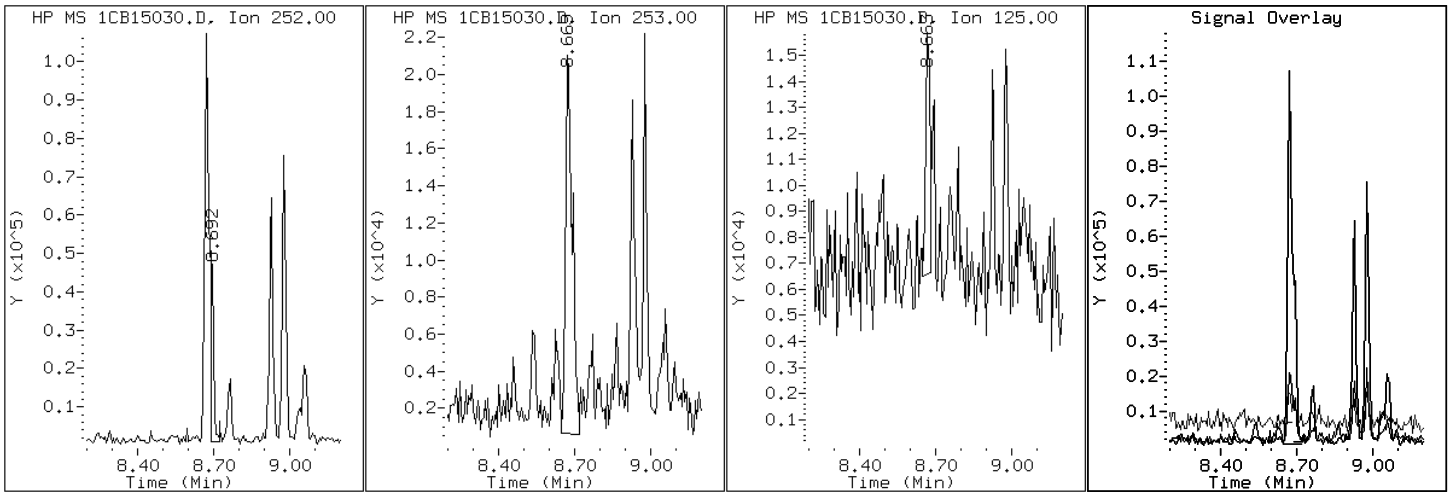
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

21 Benzo(k)fluoranthene



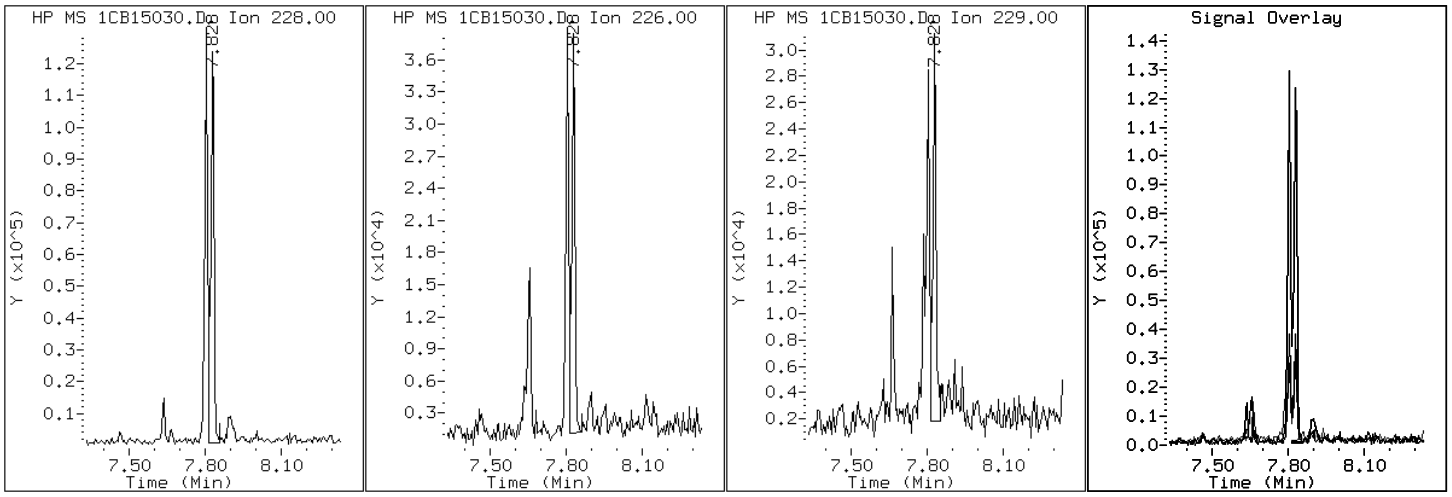
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

19 Chrysene



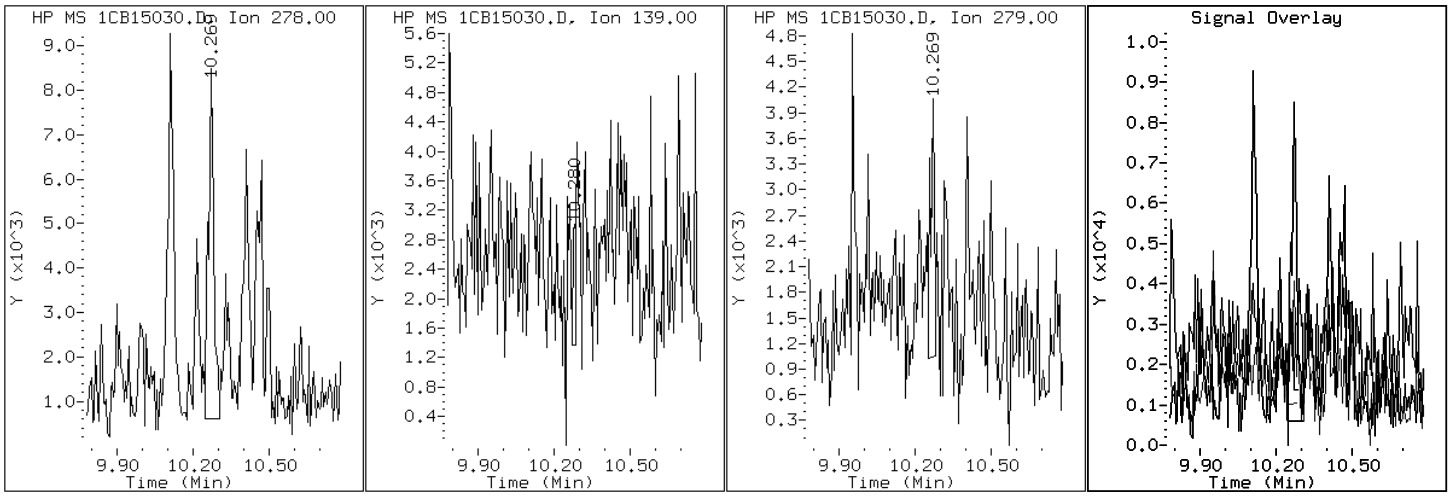
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

25 Dibenzo(a,h)anthracene



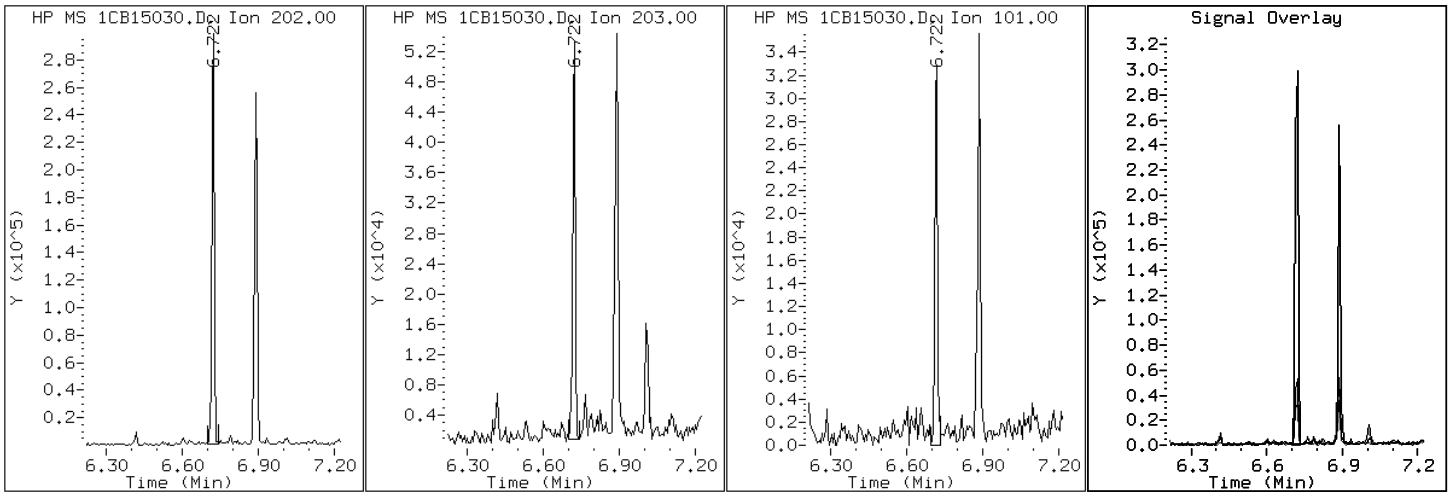
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

15 Fluoranthene



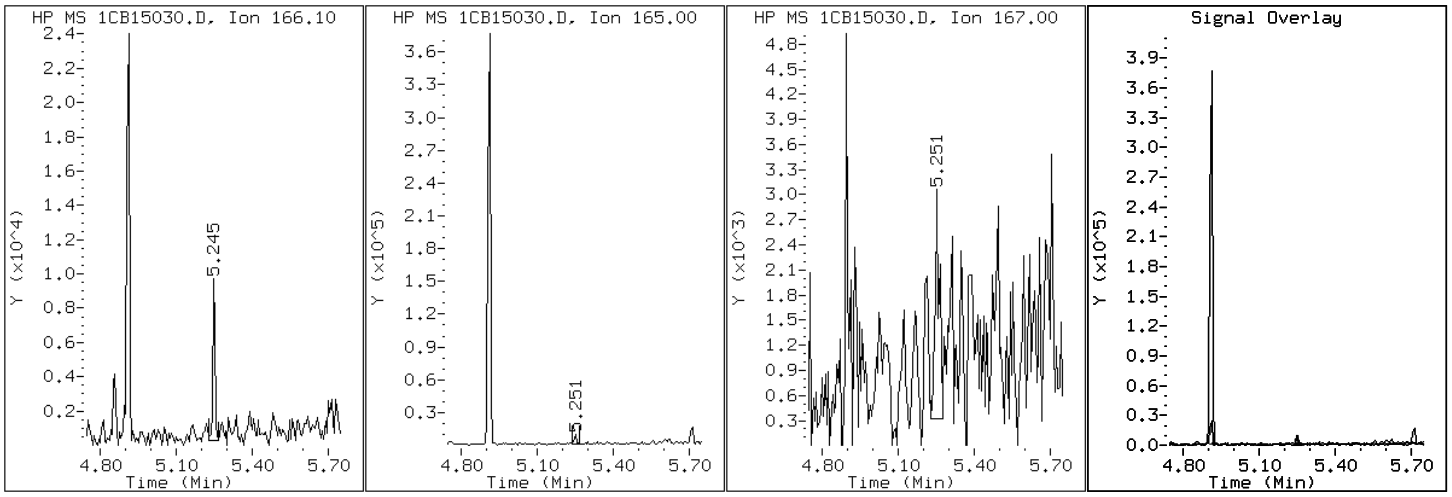
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

9 Fluorene



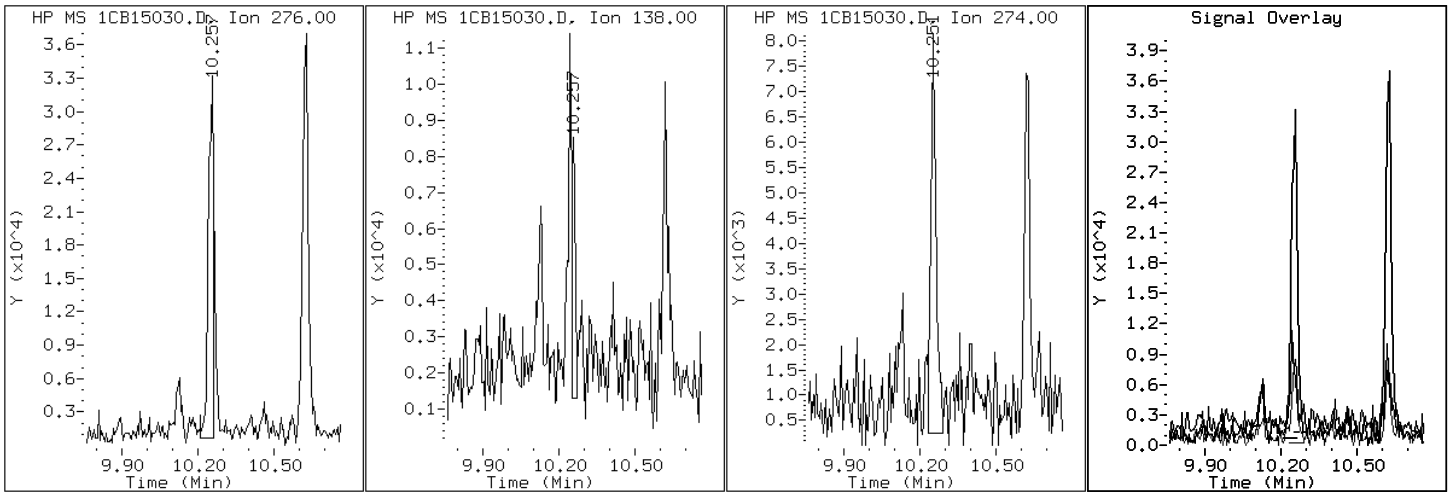
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

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



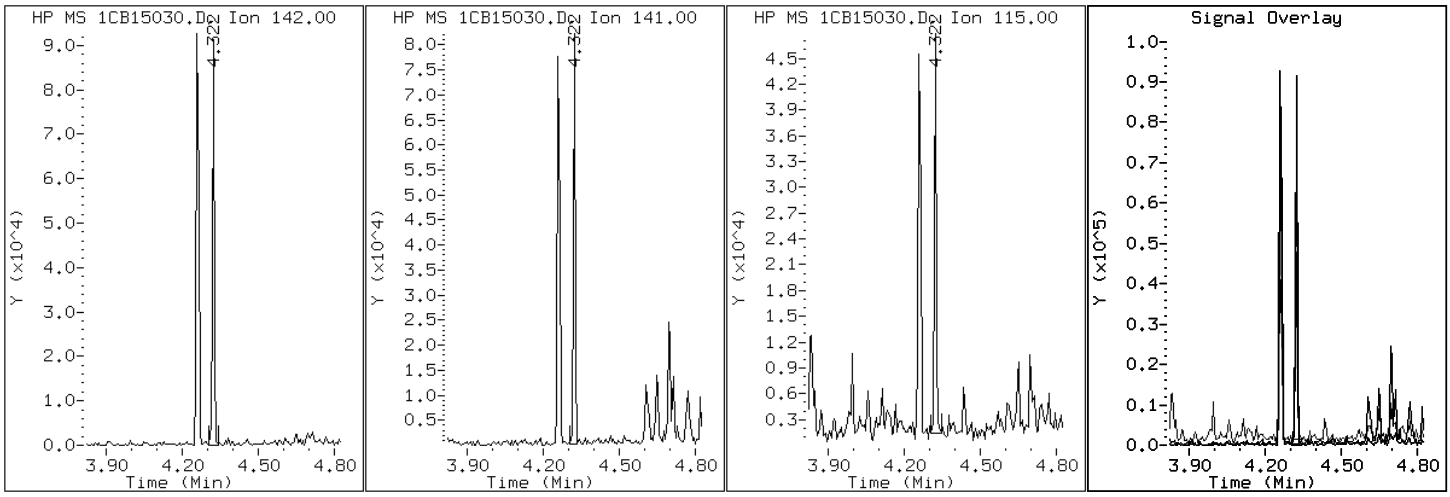
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

4 1-Methylnaphthalene



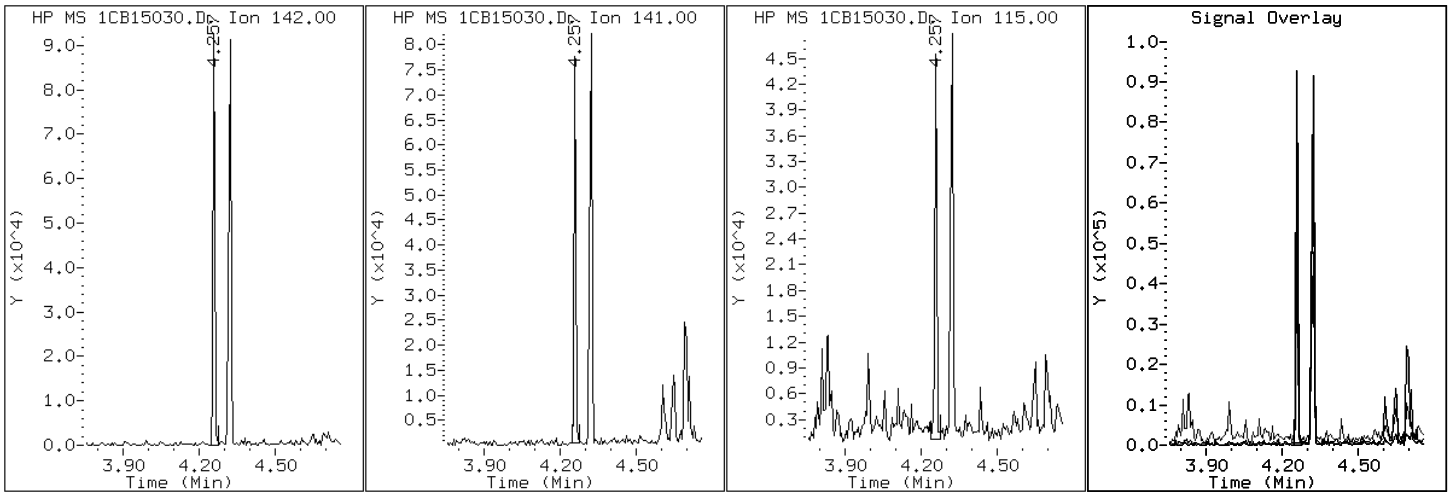
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

3 2-Methylnaphthalene



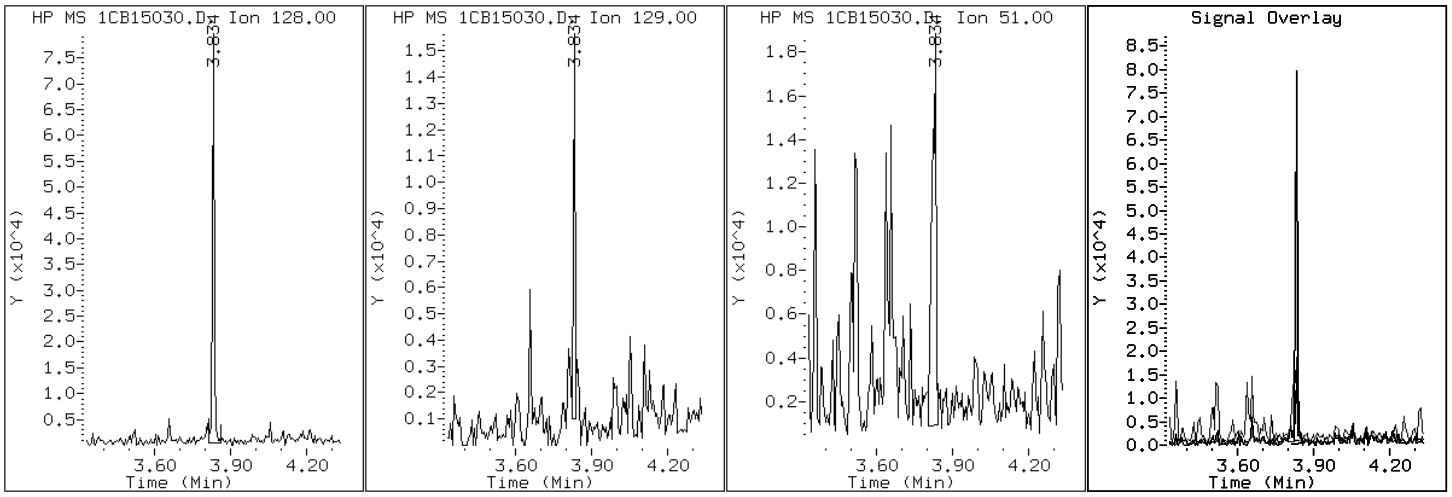
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

2 Naphthalene



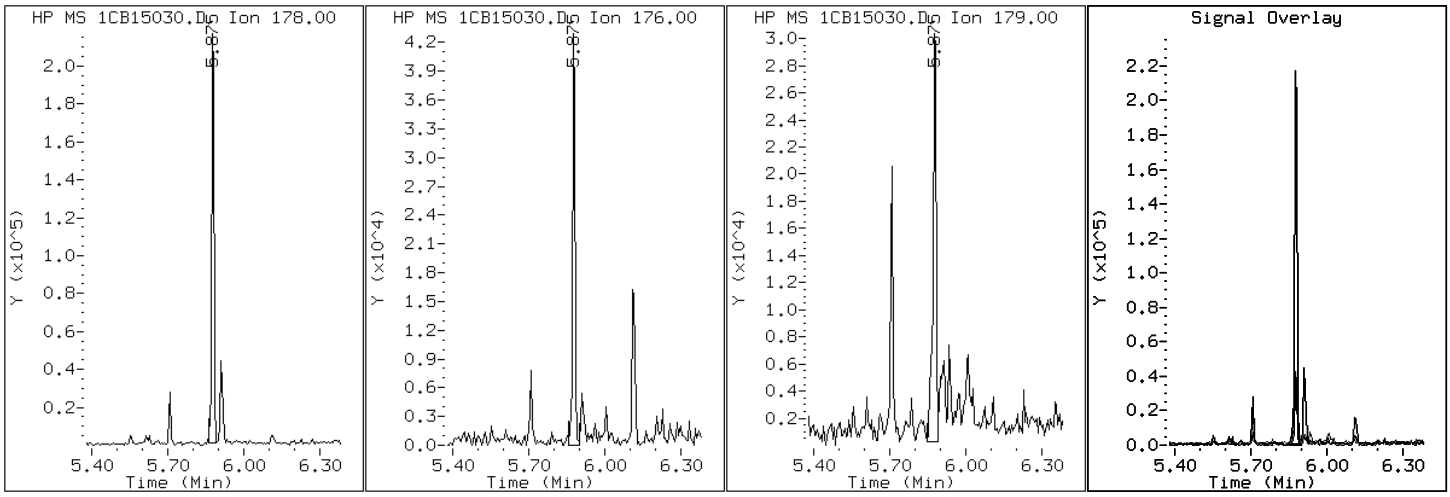
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

11 Phenanthrene



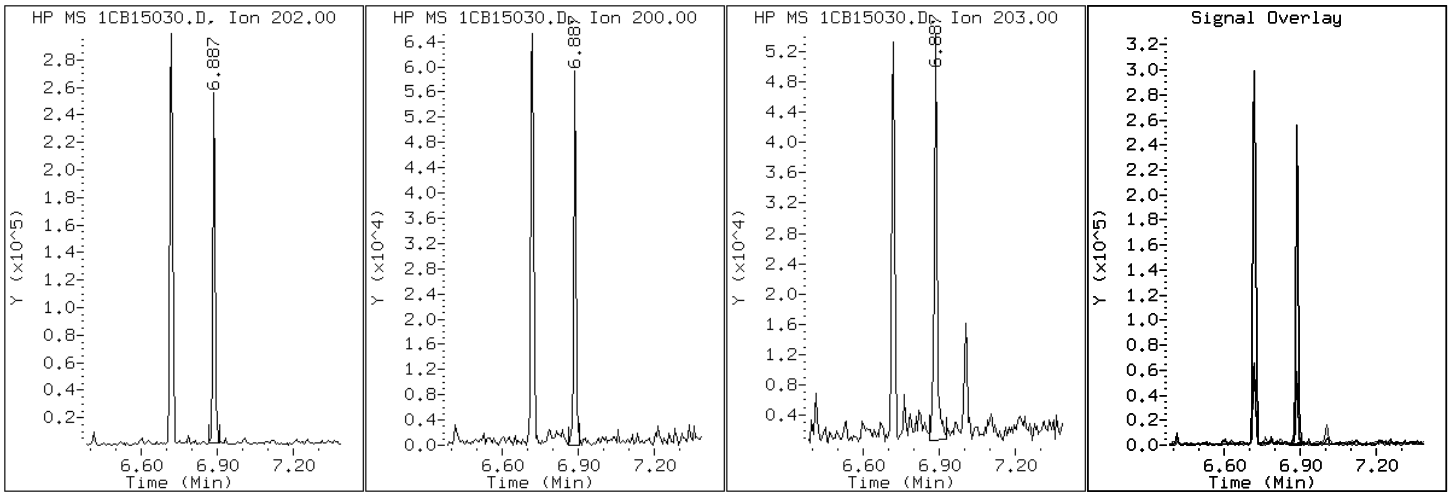
Data File: 1CB15030.D

Date: 15-FEB-2013 20:03

Client ID: CV0005O-CSD Instrument: BSMC5973.i

Sample Info: 680-87318-a-22-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15030.D
Inj. Date and Time: 15-FEB-2013 20:03
Instrument ID: BSMC5973.i
Client ID: CV0005O-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

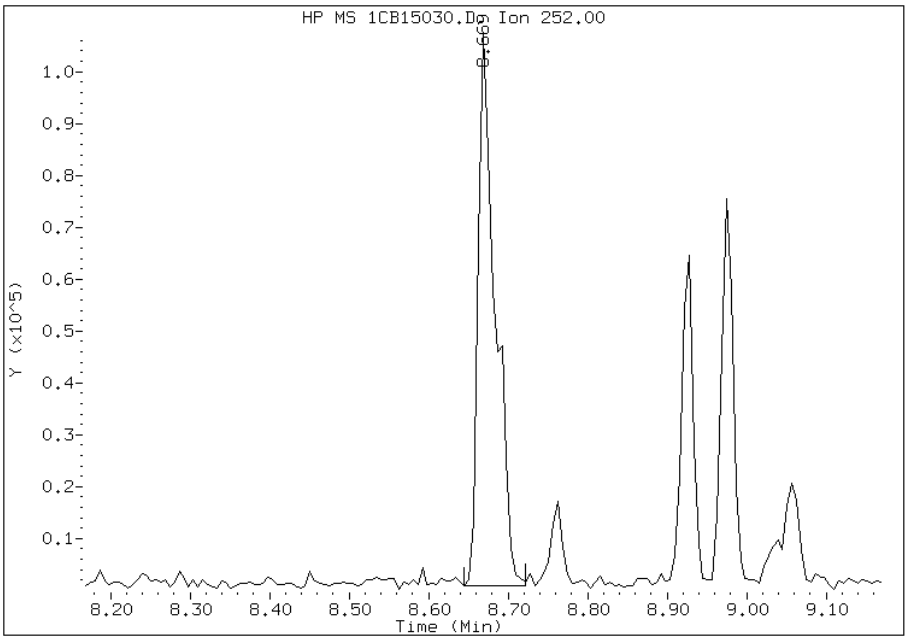
Processing Integration Results

RT: 8.67

Response: 160152

Amount: 2

Conc: 150



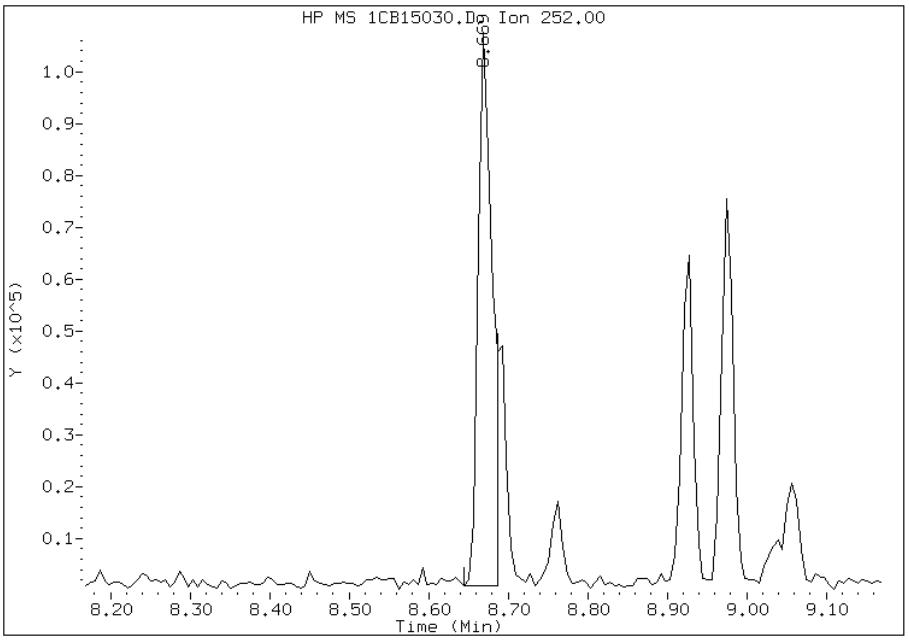
Manual Integration Results

RT: 8.67

Response: 131272

Amount: 2

Conc: 123



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15030.D
Inj. Date and Time: 15-FEB-2013 20:03
Instrument ID: BSMC5973.i
Client ID: CV0005O-CSD
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/19/2013

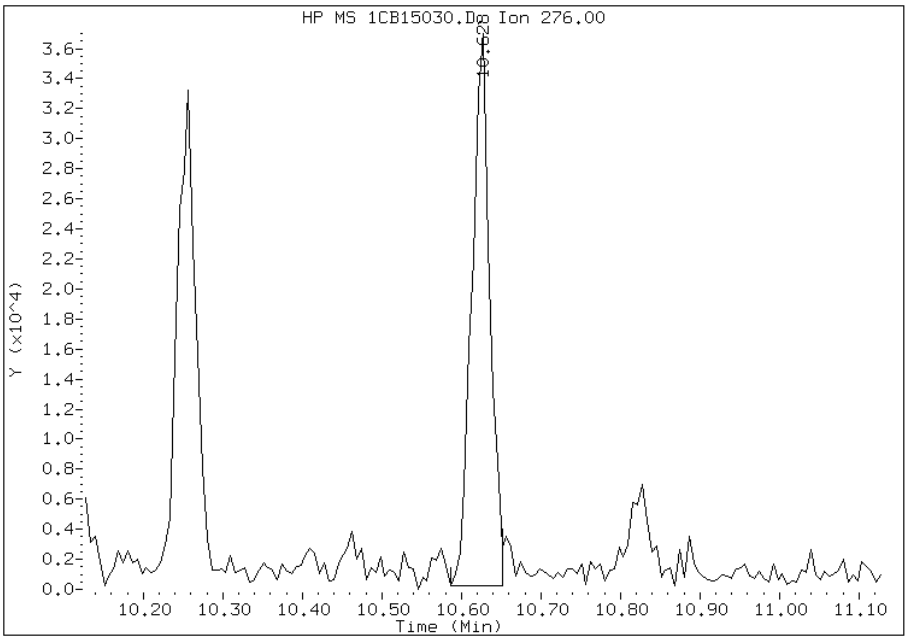
Processing Integration Results

RT: 10.63

Response: 57707

Amount: 1

Conc: 58



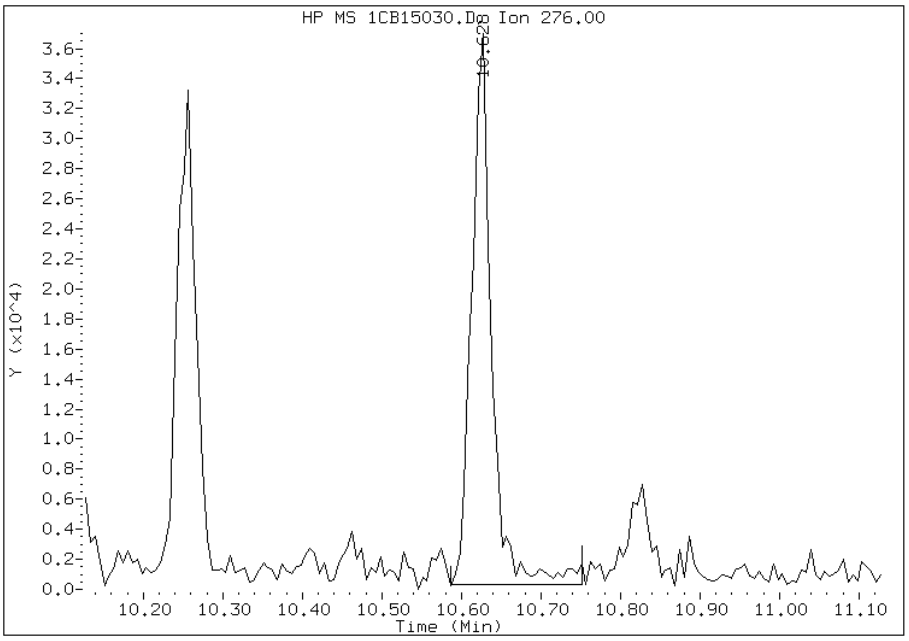
Manual Integration Results

RT: 10.63

Response: 64086

Amount: 1

Conc: 65



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15030.D
Inj. Date and Time: 15-FEB-2013 20:03
Instrument ID: BSMC5973.i
Client ID: CV0005O-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

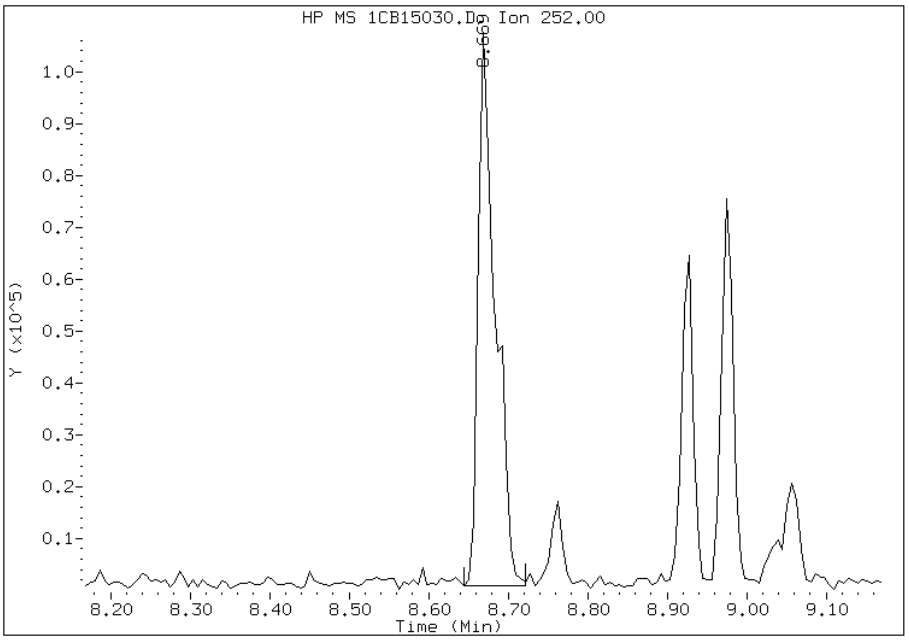
Processing Integration Results

RT: 8.67

Response: 160152

Amount: 2

Conc: 136



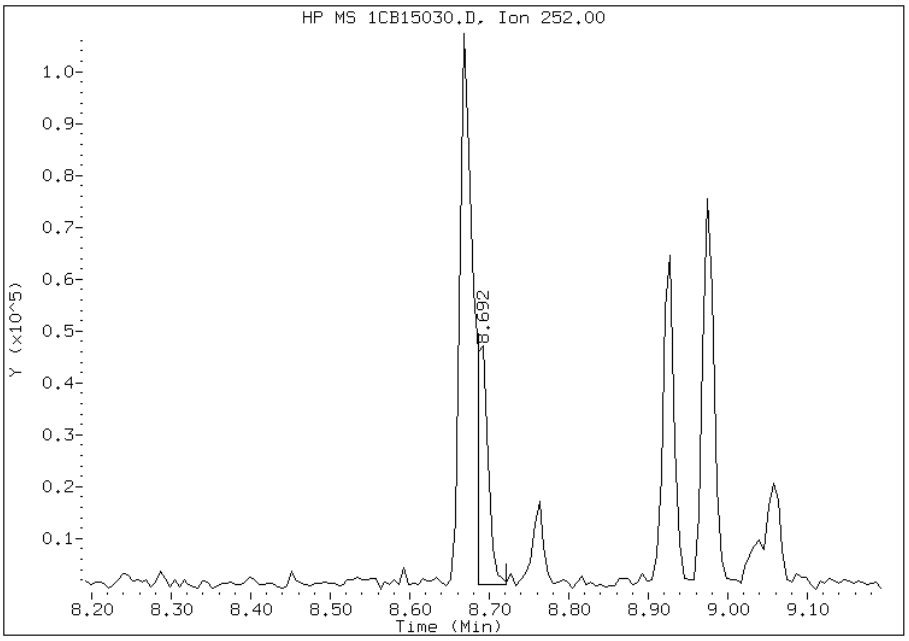
Manual Integration Results

RT: 8.69

Response: 44536

Amount: 1

Conc: 38



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15030.D
Inj. Date and Time: 15-FEB-2013 20:03
Instrument ID: BSMC5973.i
Client ID: CV0005O-CSD
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/19/2013

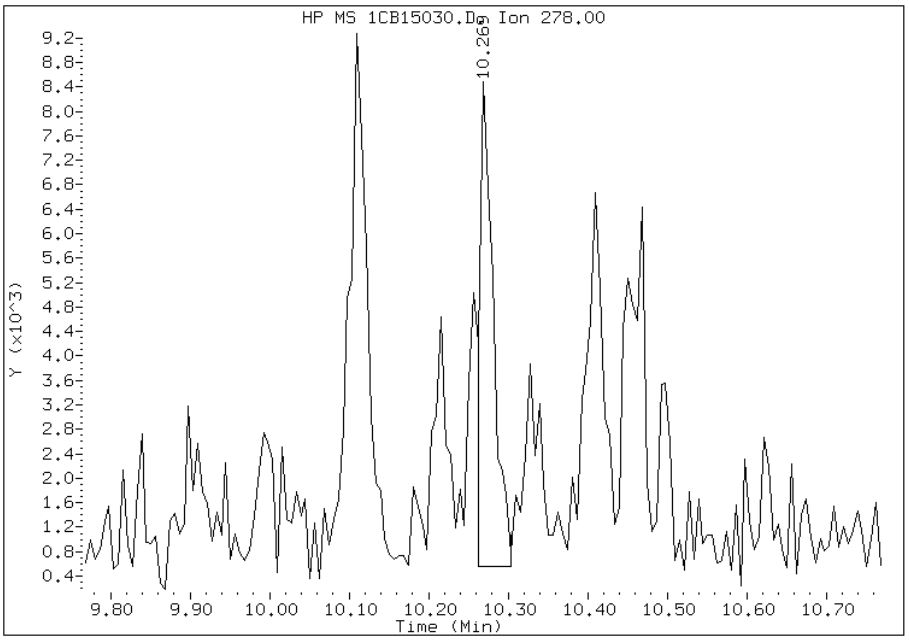
Processing Integration Results

RT: 10.27

Response: 9618

Amount: 0

Conc: 10



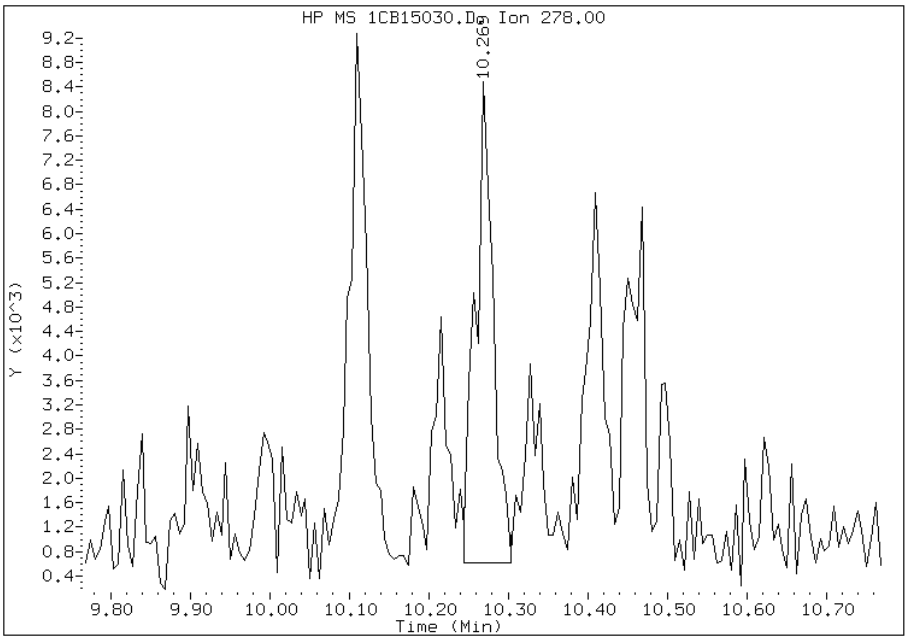
Manual Integration Results

RT: 10.27

Response: 12273

Amount: 0

Conc: 13



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15030.D
Inj. Date and Time: 15-FEB-2013 20:03
Instrument ID: BSMC5973.i
Client ID: CV0005O-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

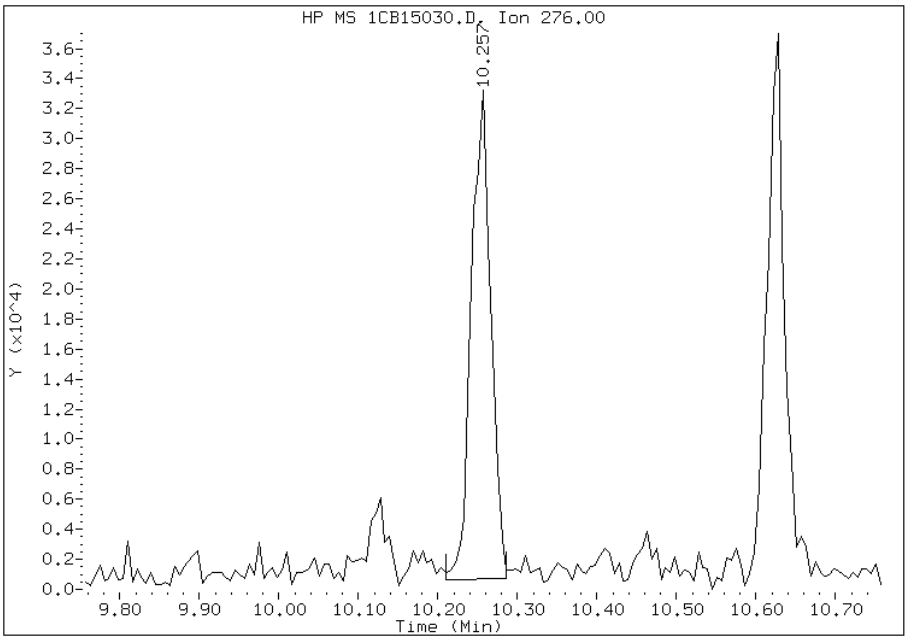
Processing Integration Results

RT: 10.26

Response: 54829

Amount: 1

Conc: 56



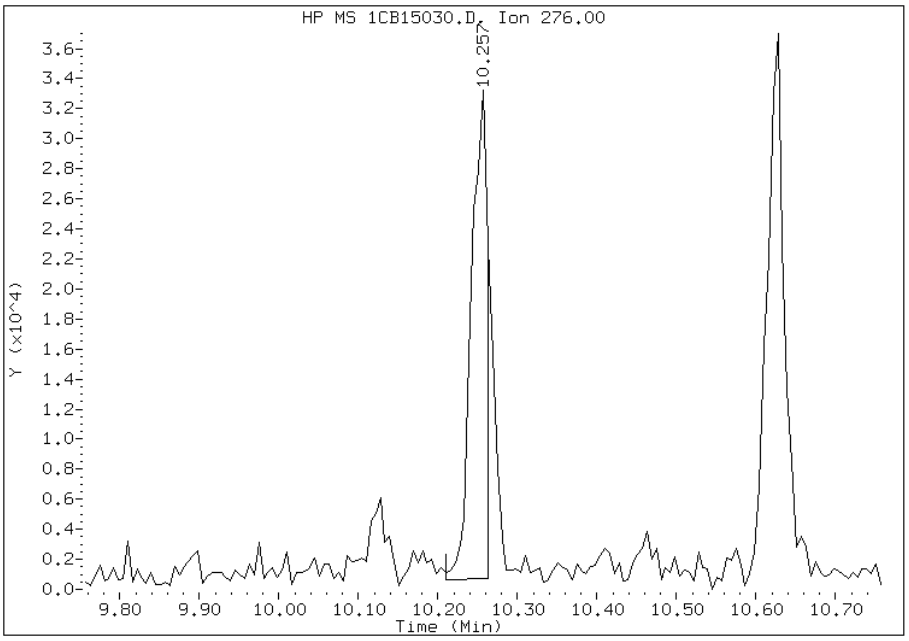
Manual Integration Results

RT: 10.26

Response: 45794

Amount: 1

Conc: 47



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005Q-CS | Lab Sample ID: 680-87318-23

Matrix: Solid | Lab File ID: 1CB15031.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 13:57

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.01(g) | Date Analyzed: 02/15/2013 20:21

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

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

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	37	J	210	26
120-12-7	Anthracene	49		44	22
56-55-3	Benzo[a]anthracene	320		42	21
50-32-8	Benzo[a]pyrene	370		55	27
205-99-2	Benzo[b]fluoranthene	570		64	32
191-24-2	Benzo[g,h,i]perylene	310		110	23
207-08-9	Benzo[k]fluoranthene	180		42	19
218-01-9	Chrysene	360		47	24
53-70-3	Dibenz(a,h)anthracene	85	J	110	22
206-44-0	Fluoranthene	510		110	21
86-73-7	Fluorene	110	U	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	260		110	37
90-12-0	1-Methylnaphthalene	78	J	210	23
91-57-6	2-Methylnaphthalene	89	J	210	37
91-20-3	Naphthalene	87	J	210	23
85-01-8	Phenanthrene	270		42	21
129-00-0	Pyrene	500		110	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15031.D
Lab Smp Id: 680-87318-A-23-A Client Smp ID: CV0005Q-CS
Inj Date : 15-FEB-2013 20:21
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-23-a
Misc Info : 680-87318-A-23-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 31
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	24.130	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2520388	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1954717	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3457909	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	85723	1.69191	594.2743
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3541747	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3254375	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	16483	0.24680	86.6867(Q)
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	10972	0.25266	88.7440
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	8796	0.22271	78.2244
5 Acenaphthylene	152	4.821	4.821	(0.982)	8143	0.10471	36.7788
11 Phenanthrene	178	5.880	5.880	(1.003)	79826	0.77339	271.6469
12 Anthracene	178	5.909	5.910	(1.008)	12951	0.13927	48.9163
13 Carbazole	167	6.015	6.015	(1.026)	11425	0.14144	49.6794
15 Fluoranthene	202	6.721	6.721	(1.146)	147360	1.46108	513.1966

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.886	6.886	(0.882)	133602	1.41693	497.6867
17 Benzo(a)anthracene	228	7.803	7.804	(0.999)	89775	0.91918	322.8561
19 Chrysene	228	7.833	7.833	(1.003)	103348	1.02440	359.8138
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	128650	1.61242	566.3540(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	44260	0.50354	176.8636(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	79901	1.05242	369.6545
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	53652	0.73576	258.4294(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	16664	0.24233	85.1168
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	64379	0.86913	305.2755

QC Flag Legend

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

Data File: 1CB15031.D

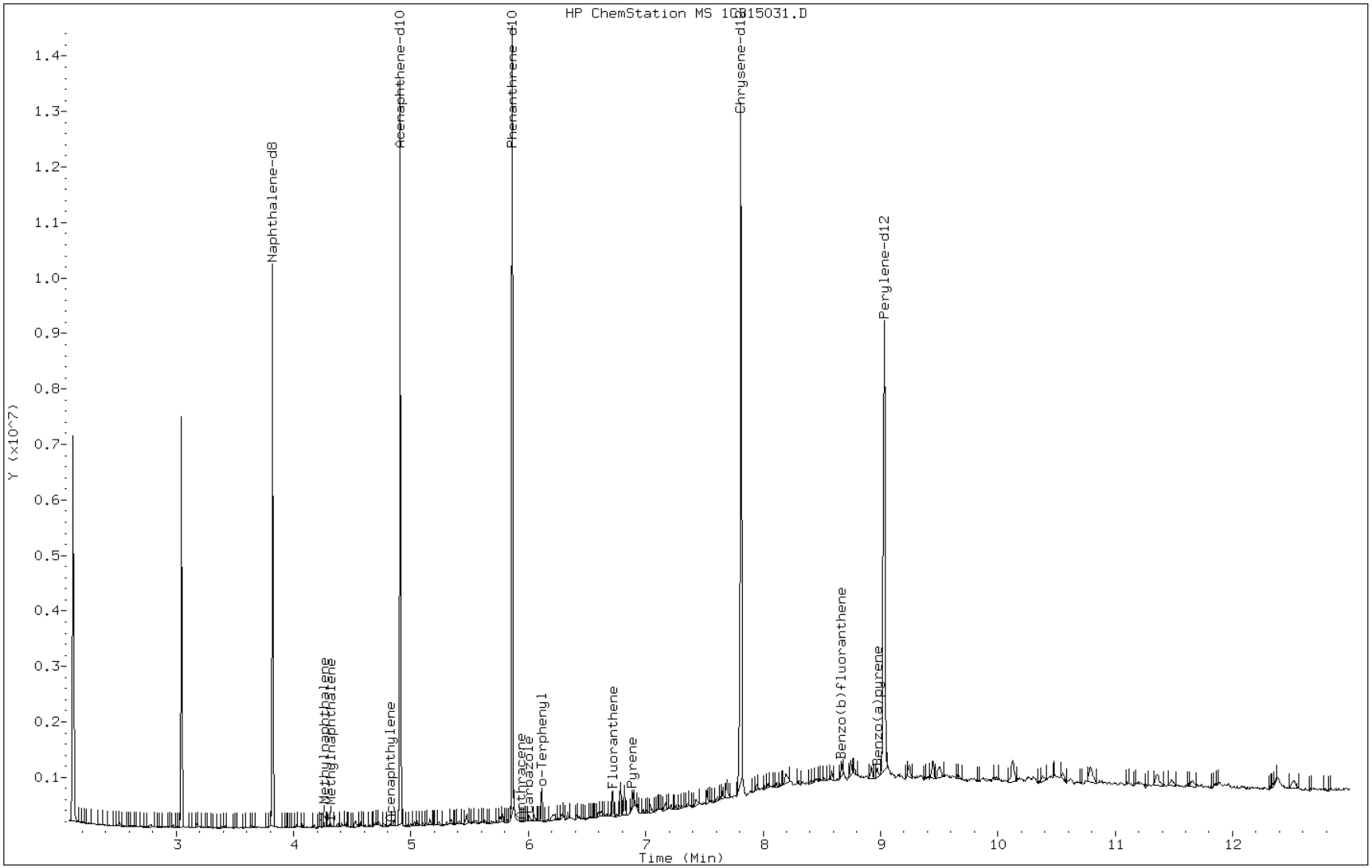
Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a

Operator: SCC



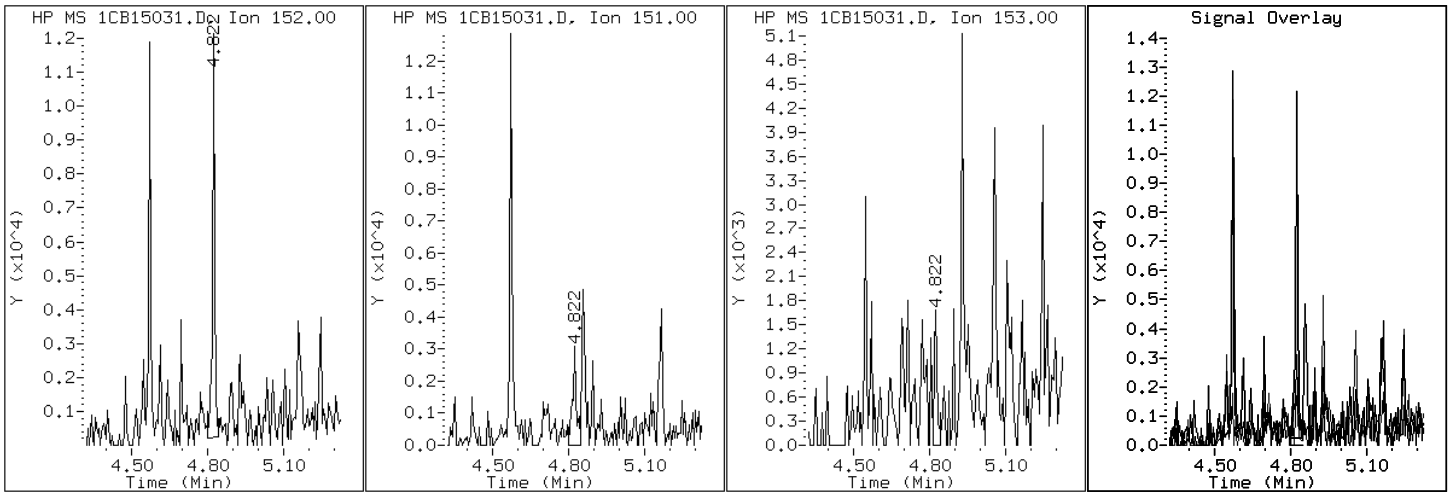
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

5 Acenaphthylene



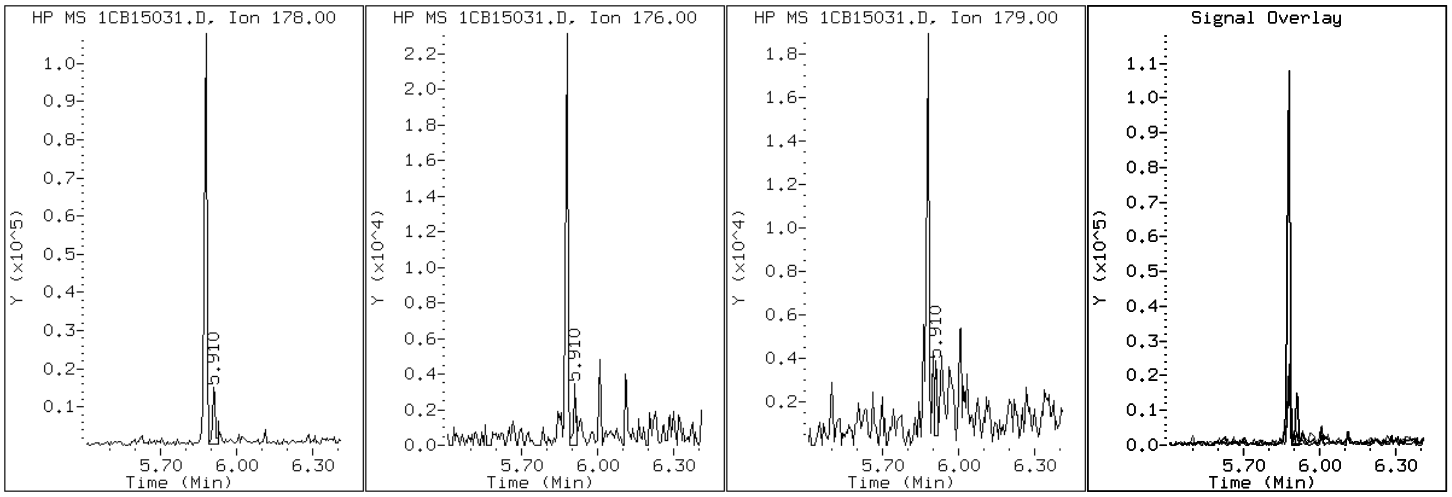
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

12 Anthracene



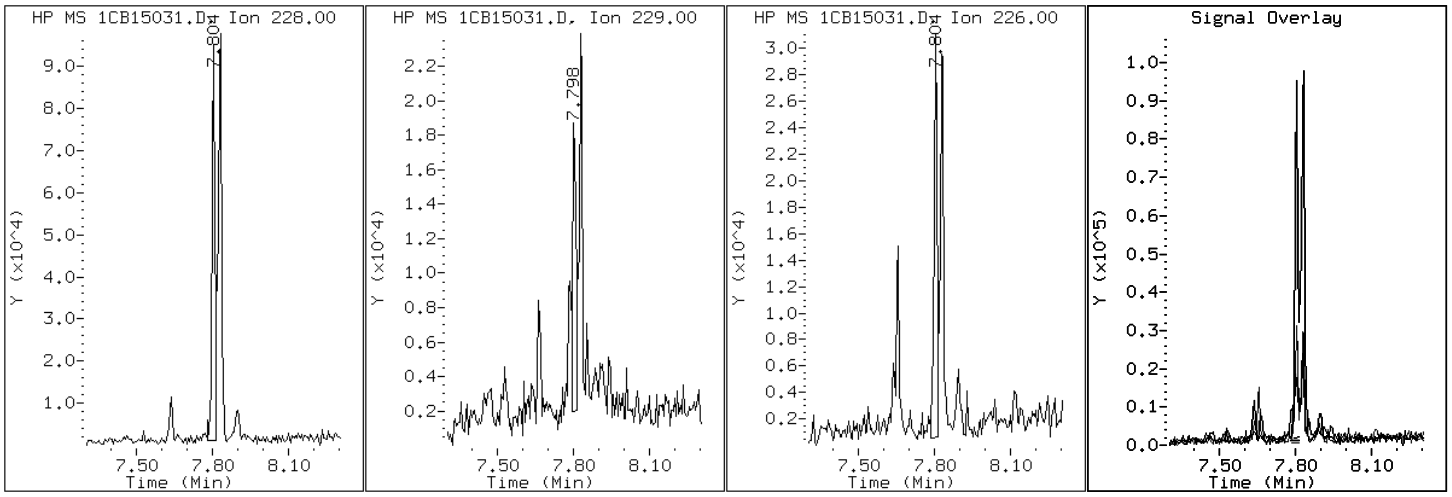
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

17 Benzo(a)anthracene



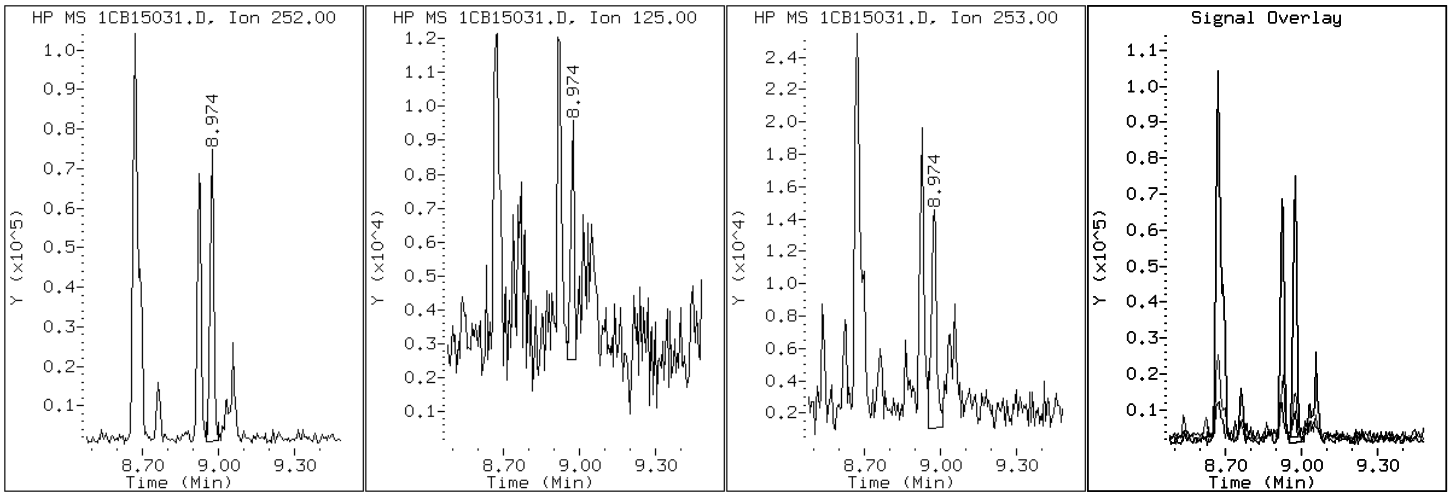
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

22 Benzo(a)pyrene



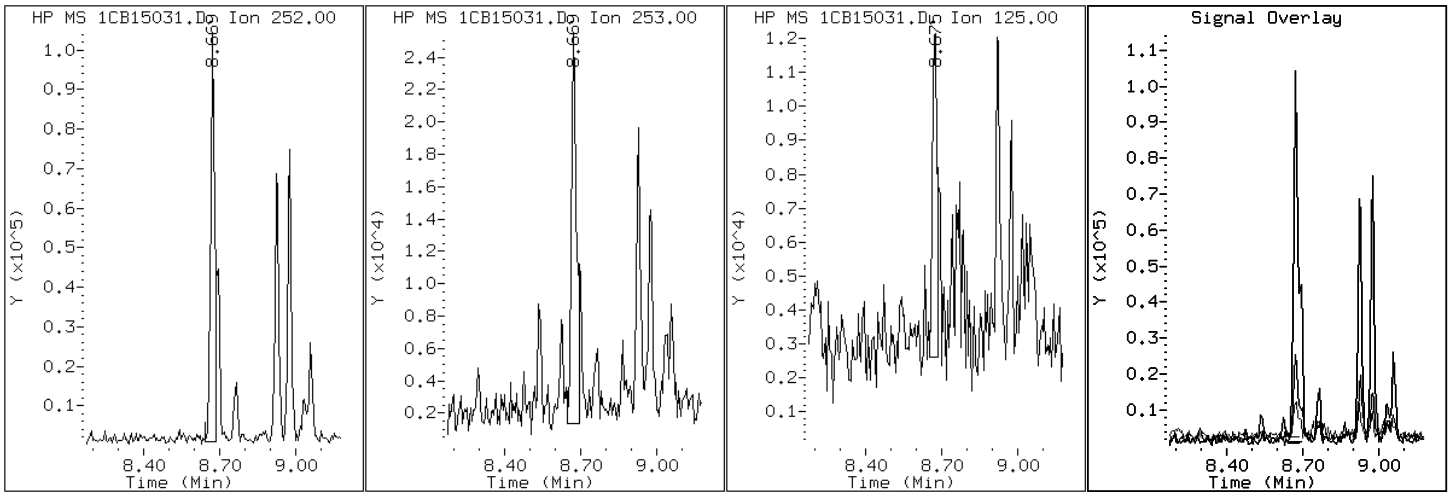
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

20 Benzo(b)fluoranthene



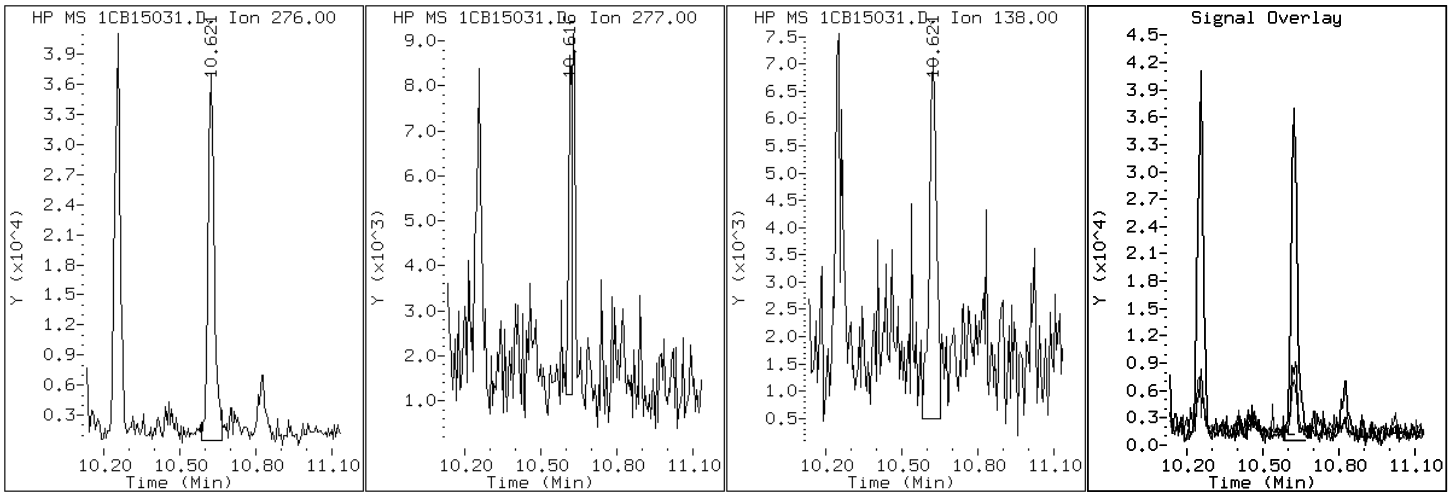
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

26 Benzo(g,h,i)perylene



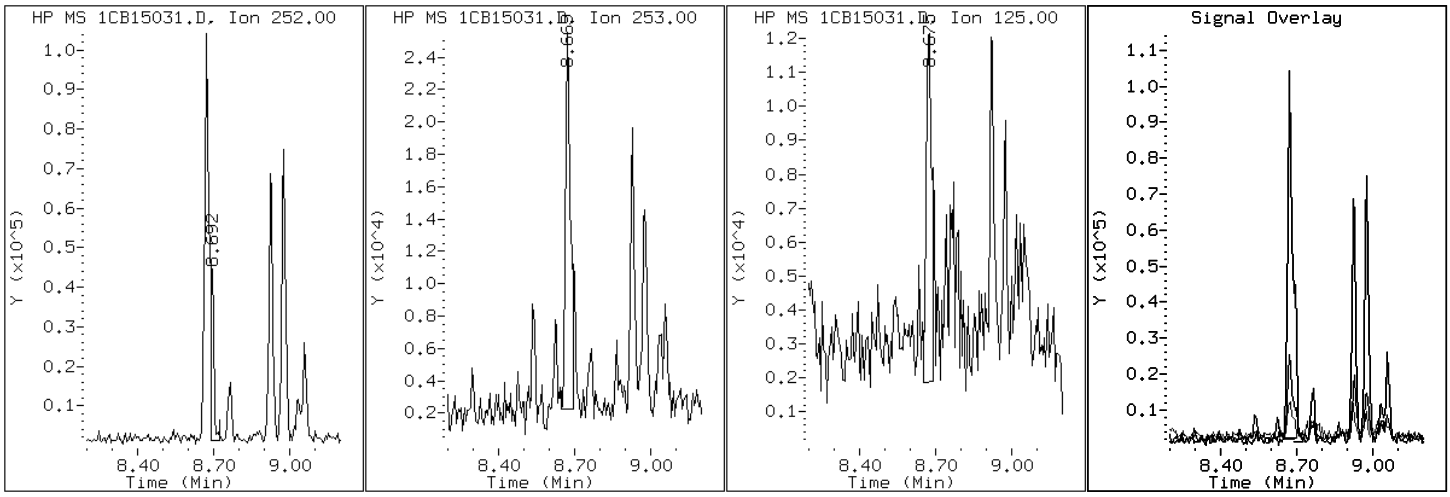
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

21 Benzo(k)fluoranthene



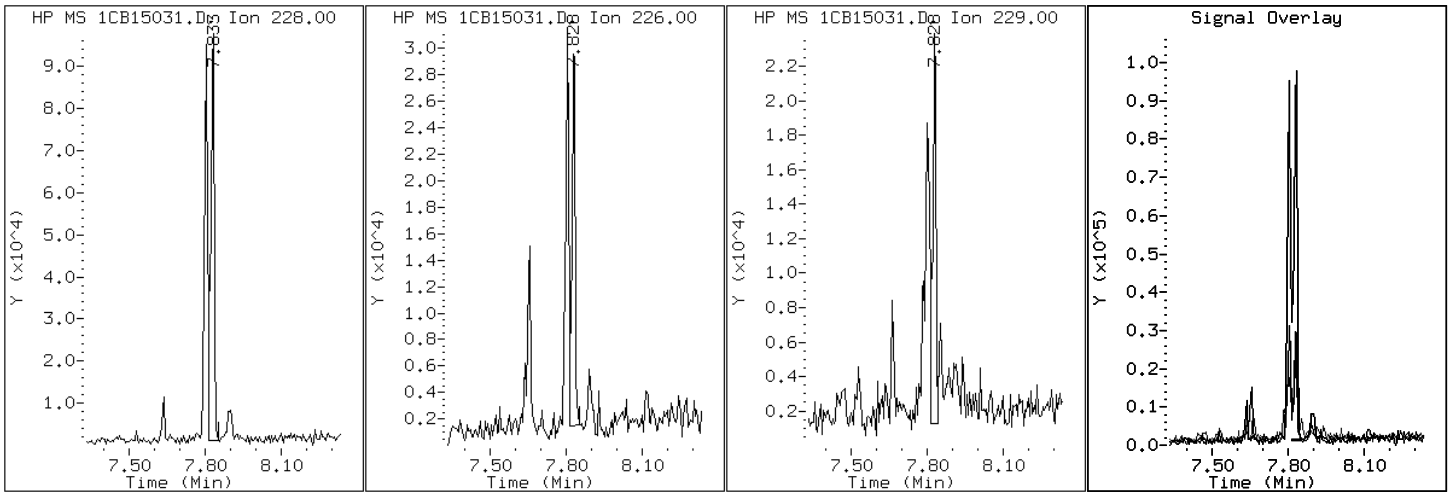
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

19 Chrysene



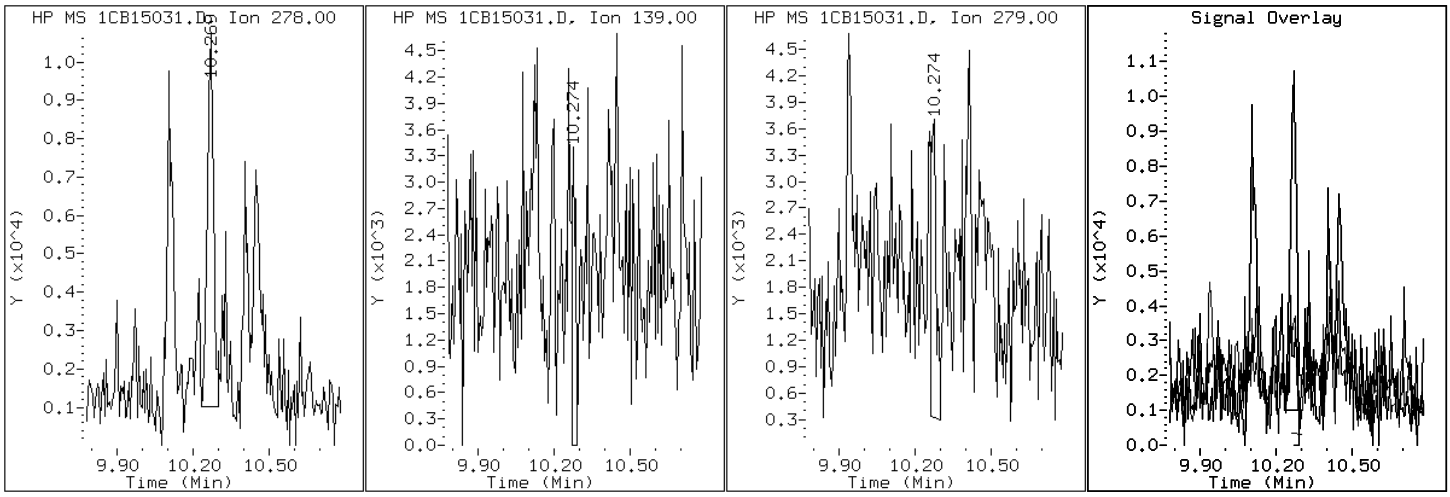
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

25 Dibenzo(a,h)anthracene



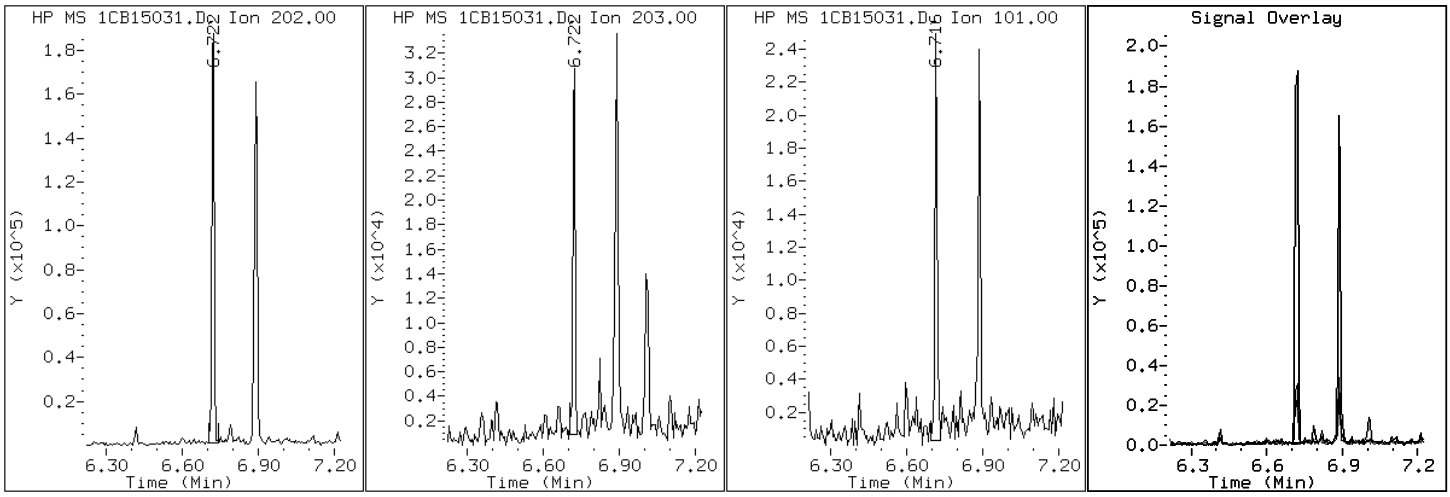
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

15 Fluoranthene



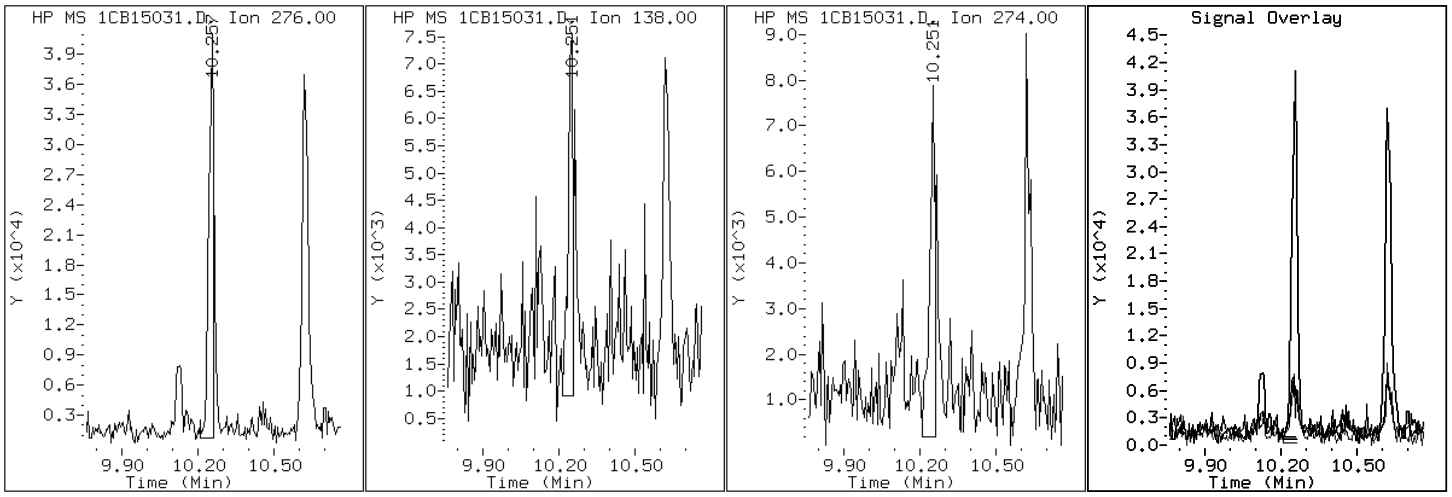
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

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



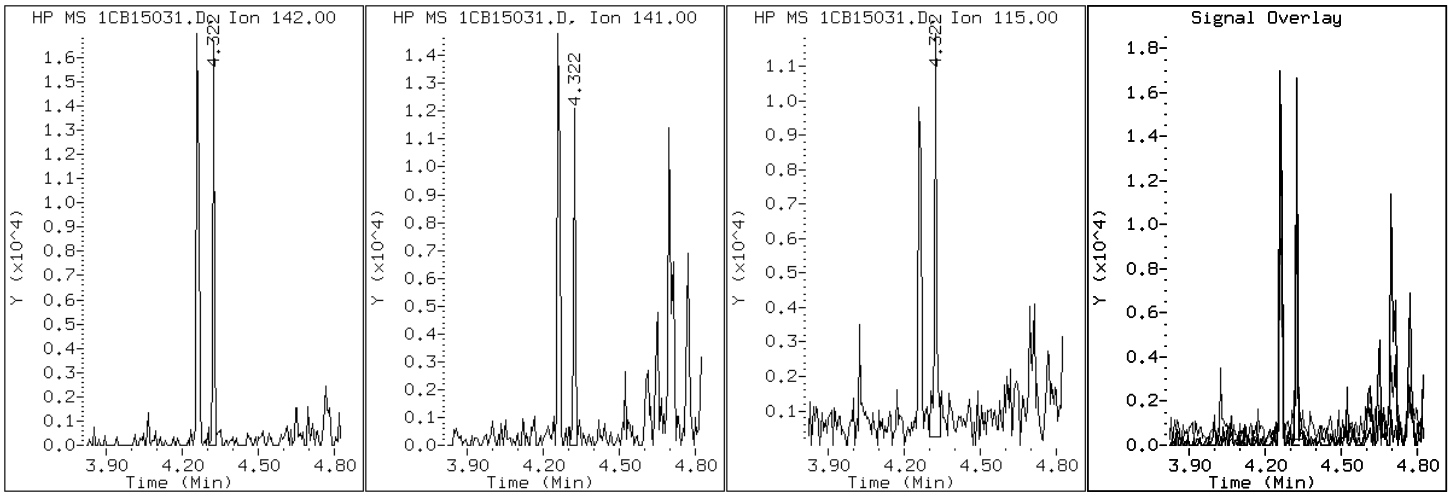
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

4 1-Methylnaphthalene



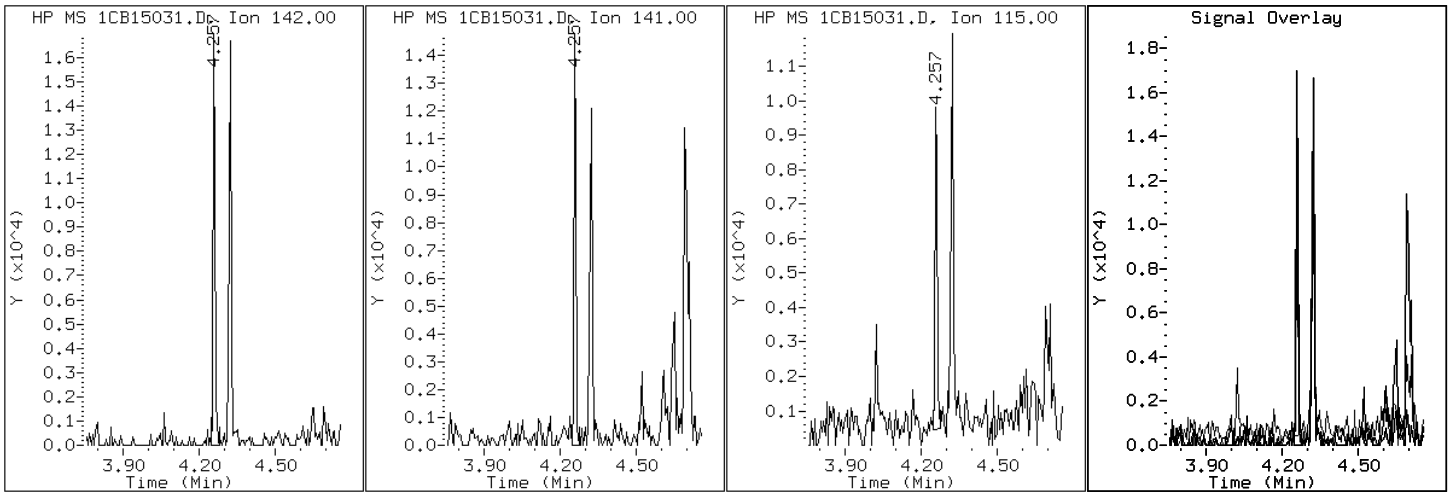
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

3 2-Methylnaphthalene



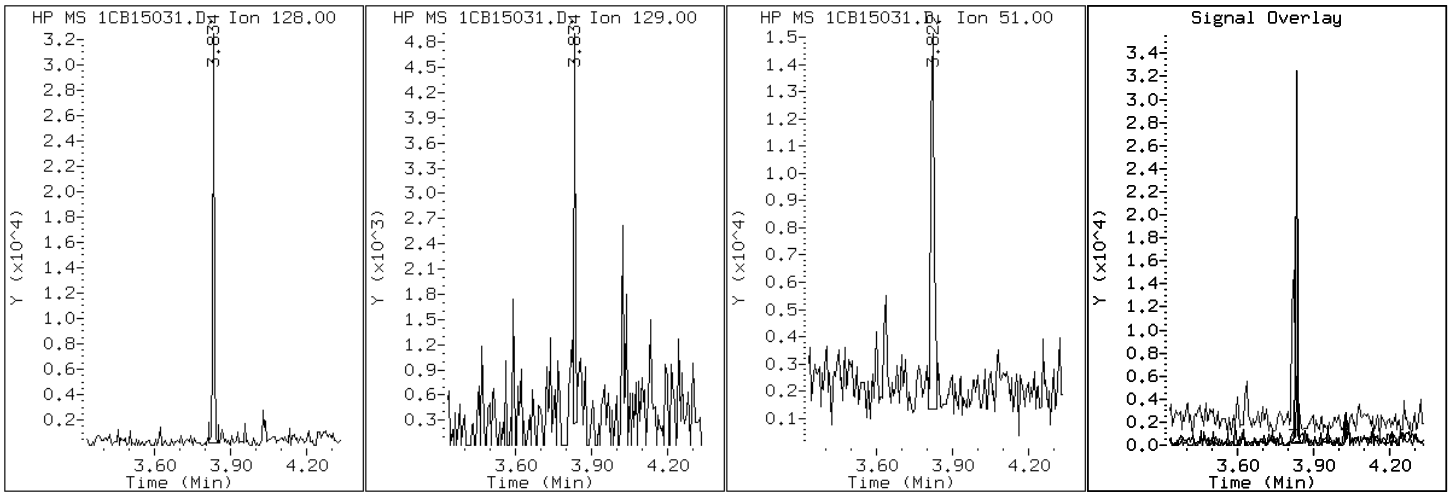
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

2 Naphthalene



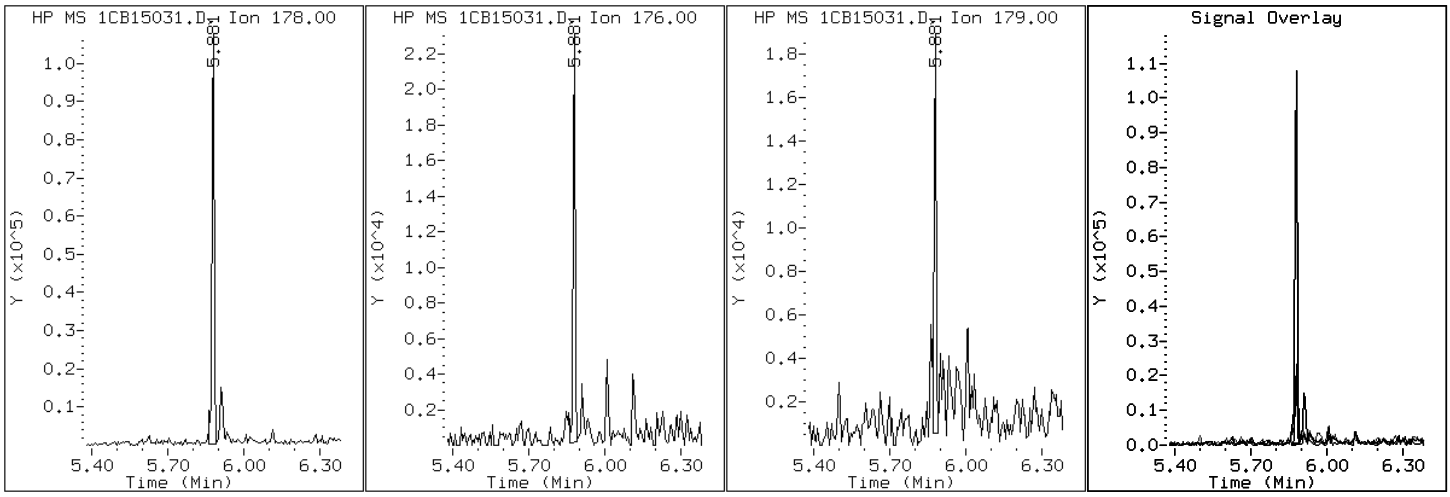
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

11 Phenanthrene



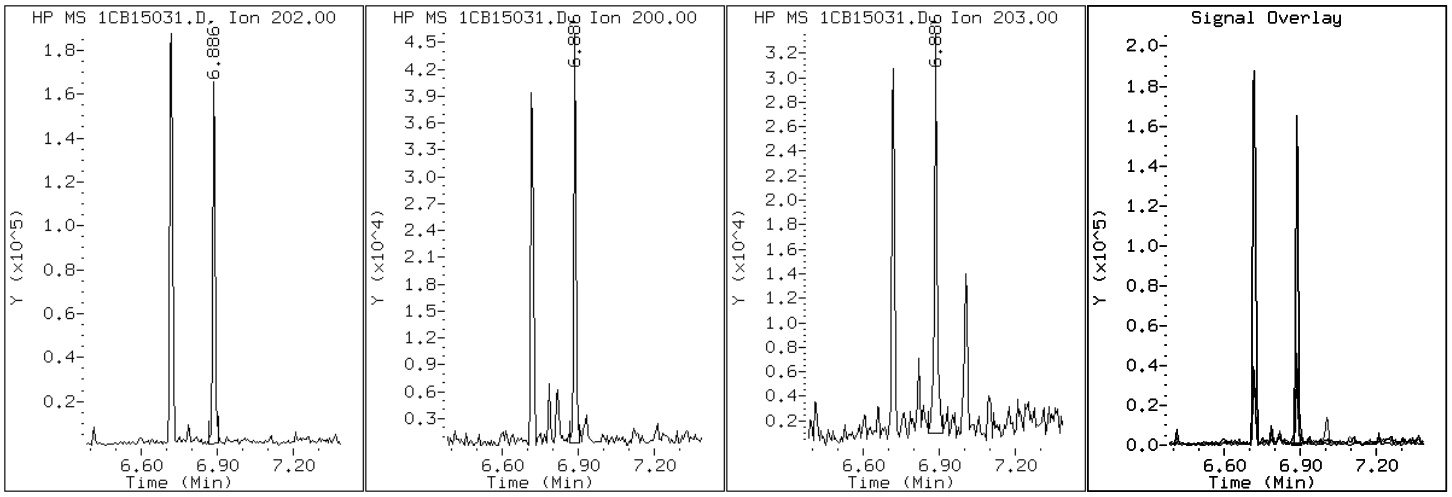
Data File: 1CB15031.D

Date: 15-FEB-2013 20:21

Client ID: CV0005Q-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-23-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15031.D
Inj. Date and Time: 15-FEB-2013 20:21
Instrument ID: BSMC5973.i
Client ID: CV0005Q-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

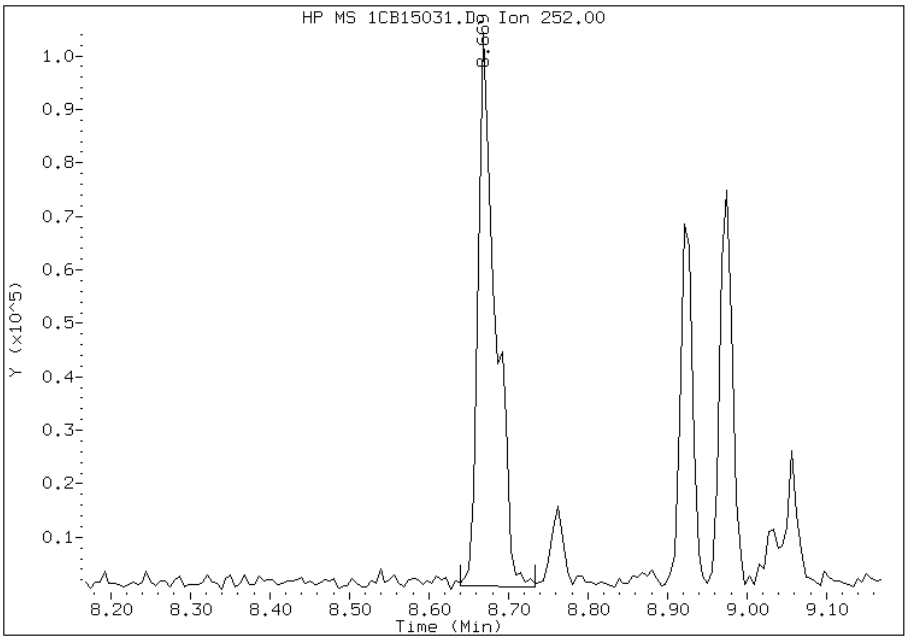
Processing Integration Results

RT: 8.67

Response: 160249

Amount: 2

Conc: 705



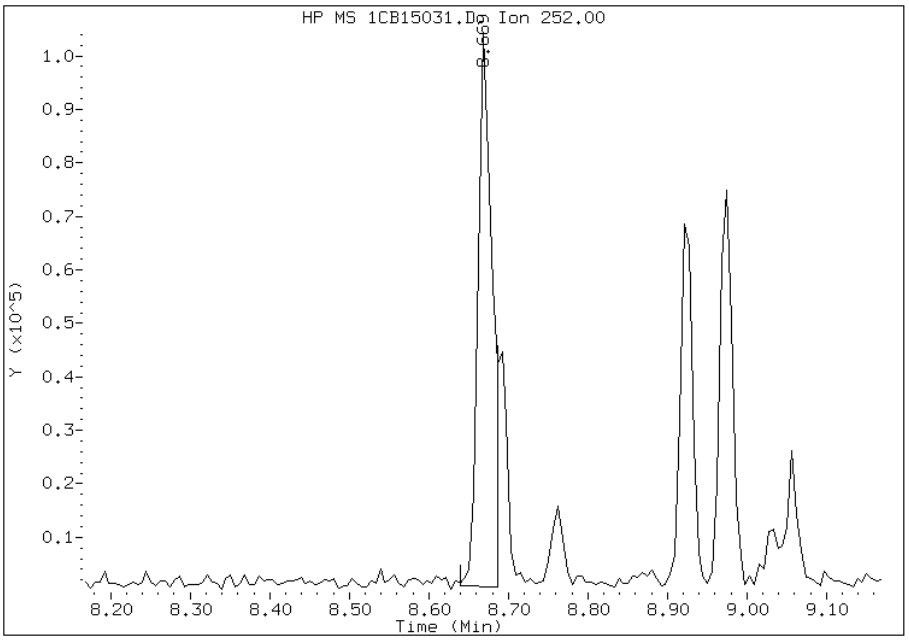
Manual Integration Results

RT: 8.67

Response: 128650

Amount: 2

Conc: 566



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:21
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15031.D
Inj. Date and Time: 15-FEB-2013 20:21
Instrument ID: BSMC5973.i
Client ID: CV0005Q-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

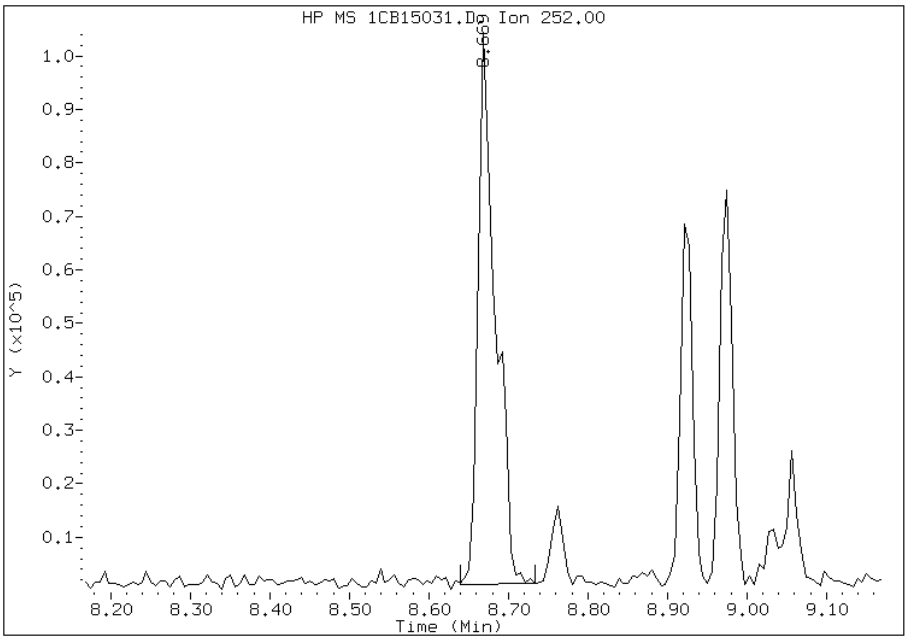
Processing Integration Results

RT: 8.67

Response: 157282

Amount: 2

Conc: 629



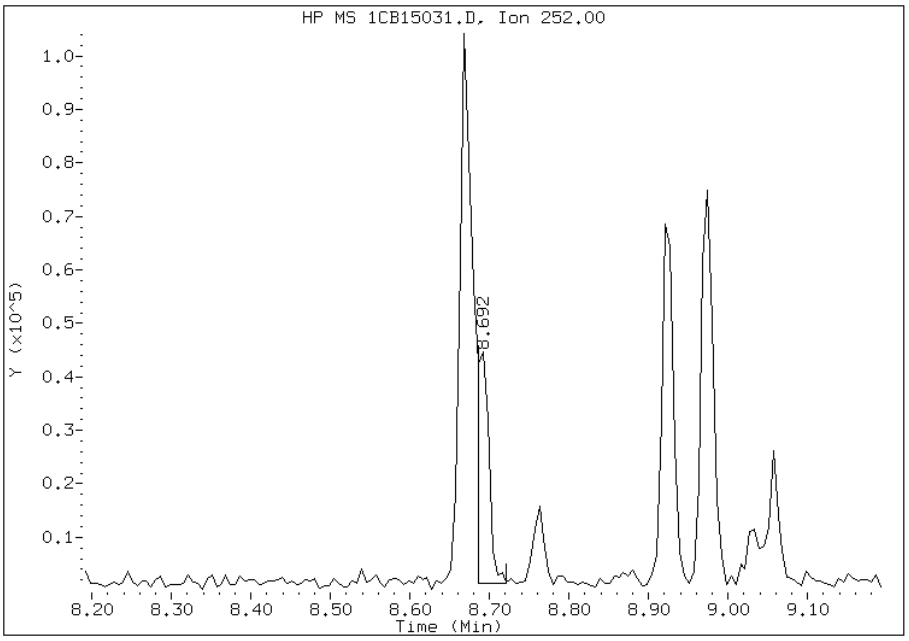
Manual Integration Results

RT: 8.69

Response: 44260

Amount: 1

Conc: 177



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:21
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15031.D
Inj. Date and Time: 15-FEB-2013 20:21
Instrument ID: BSMC5973.i
Client ID: CV0005Q-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

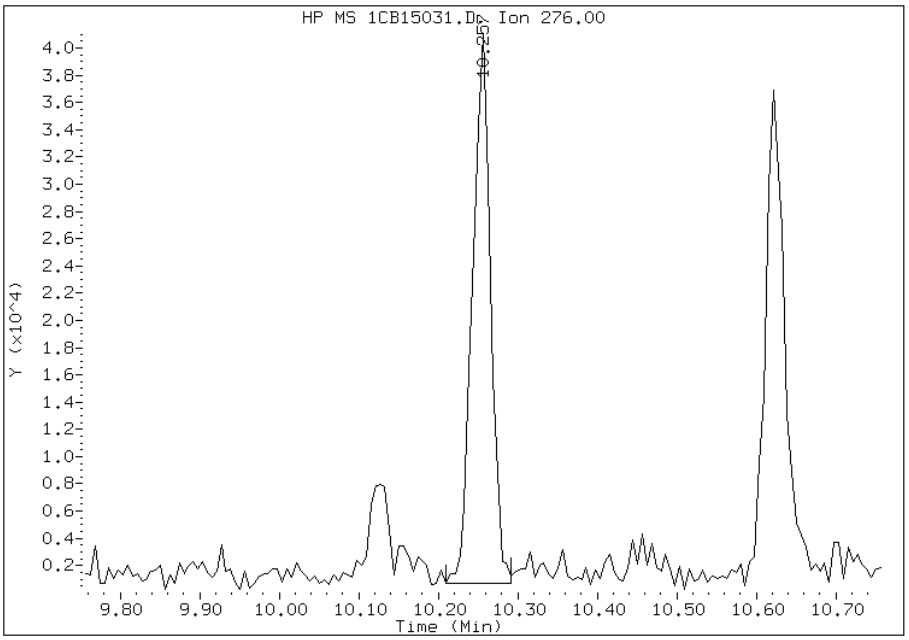
Processing Integration Results

RT: 10.26

Response: 63053

Amount: 1

Conc: 304



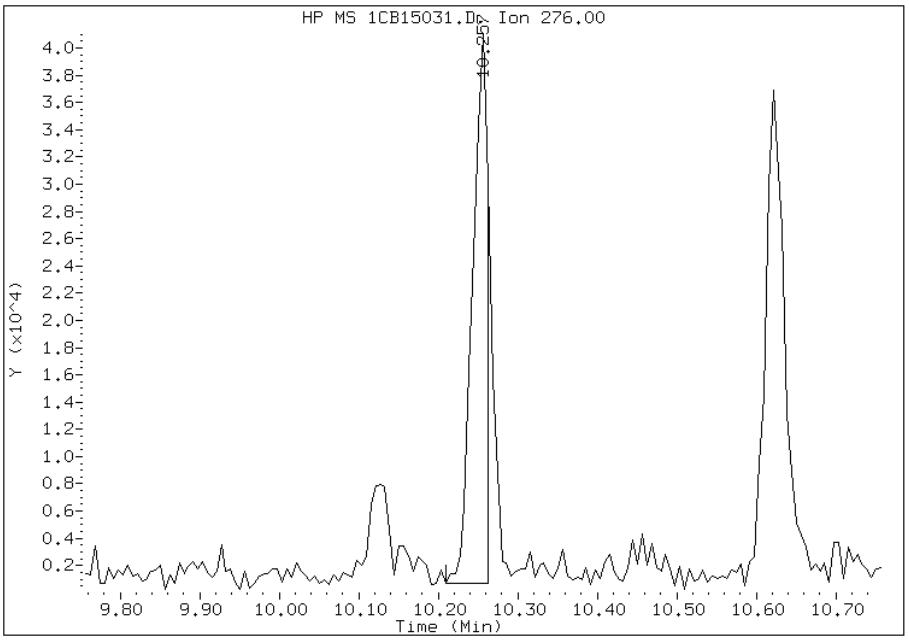
Manual Integration Results

RT: 10.26

Response: 53652

Amount: 1

Conc: 258



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005P-CS | Lab Sample ID: 680-87318-24

Matrix: Solid | Lab File ID: 1CB15032.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 13:52

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.09(g) | Date Analyzed: 02/15/2013 20:39

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

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

% Moisture: 2.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	20
208-96-8	Acenaphthylene	19	J	41	5.1
120-12-7	Anthracene	20		8.6	4.3
56-55-3	Benzo[a]anthracene	110		8.2	4.0
50-32-8	Benzo[a]pyrene	130		11	5.3
205-99-2	Benzo[b]fluoranthene	200		12	6.2
191-24-2	Benzo[g,h,i]perylene	90		20	4.5
207-08-9	Benzo[k]fluoranthene	62		8.2	3.7
218-01-9	Chrysene	130		9.2	4.6
53-70-3	Dibenz(a,h)anthracene	22		20	4.2
206-44-0	Fluoranthene	270		20	4.1
86-73-7	Fluorene	8.3	J	20	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	80		20	7.3
90-12-0	1-Methylnaphthalene	28	J	41	4.5
91-57-6	2-Methylnaphthalene	37	J	41	7.3
91-20-3	Naphthalene	38	J	41	4.5
85-01-8	Phenanthrene	170		8.2	4.0
129-00-0	Pyrene	260		20	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	56		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15032.D
Lab Smp Id: 680-87318-A-24-A Client Smp ID: CV0005P-CS
Inj Date : 15-FEB-2013 20:39
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-a-24-a
Misc Info : 680-87318-A-24-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	2.802	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2644487	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	2034572	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3557972	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	291711	5.59558	381.5022
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3534366	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3297985	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	39491	0.56355	38.4223
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	24855	0.54549	37.1909
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	17016	0.41061	27.9952
5 Acenaphthylene	152	4.821	4.821	(0.982)	22450	0.27735	18.9097
9 Fluorene	166	5.251	5.245	(1.069)	7905	0.12130	8.2703(Q)
11 Phenanthrene	178	5.880	5.880	(1.003)	270492	2.54693	173.6479
12 Anthracene	178	5.910	5.910	(1.008)	27945	0.29205	19.9117
13 Carbazole	167	6.015	6.015	(1.026)	31360	0.37731	25.7247

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	413645	3.98597	271.7607
16 Pyrene	202	6.886	6.886	(0.882)	357134	3.79552	258.7760
17 Benzo(a)anthracene	228	7.803	7.804	(0.999)	161390	1.65588	112.8963
19 Chrysene	228	7.833	7.833	(1.003)	190261	1.88983	128.8472
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	232410	2.87438	195.9727(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	81654	0.91667	62.4981(M)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	145887	1.89614	129.2775
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	86219	1.16673	79.5466(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	22399	0.32142	21.9142
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	99393	1.32408	90.2747

QC Flag Legend

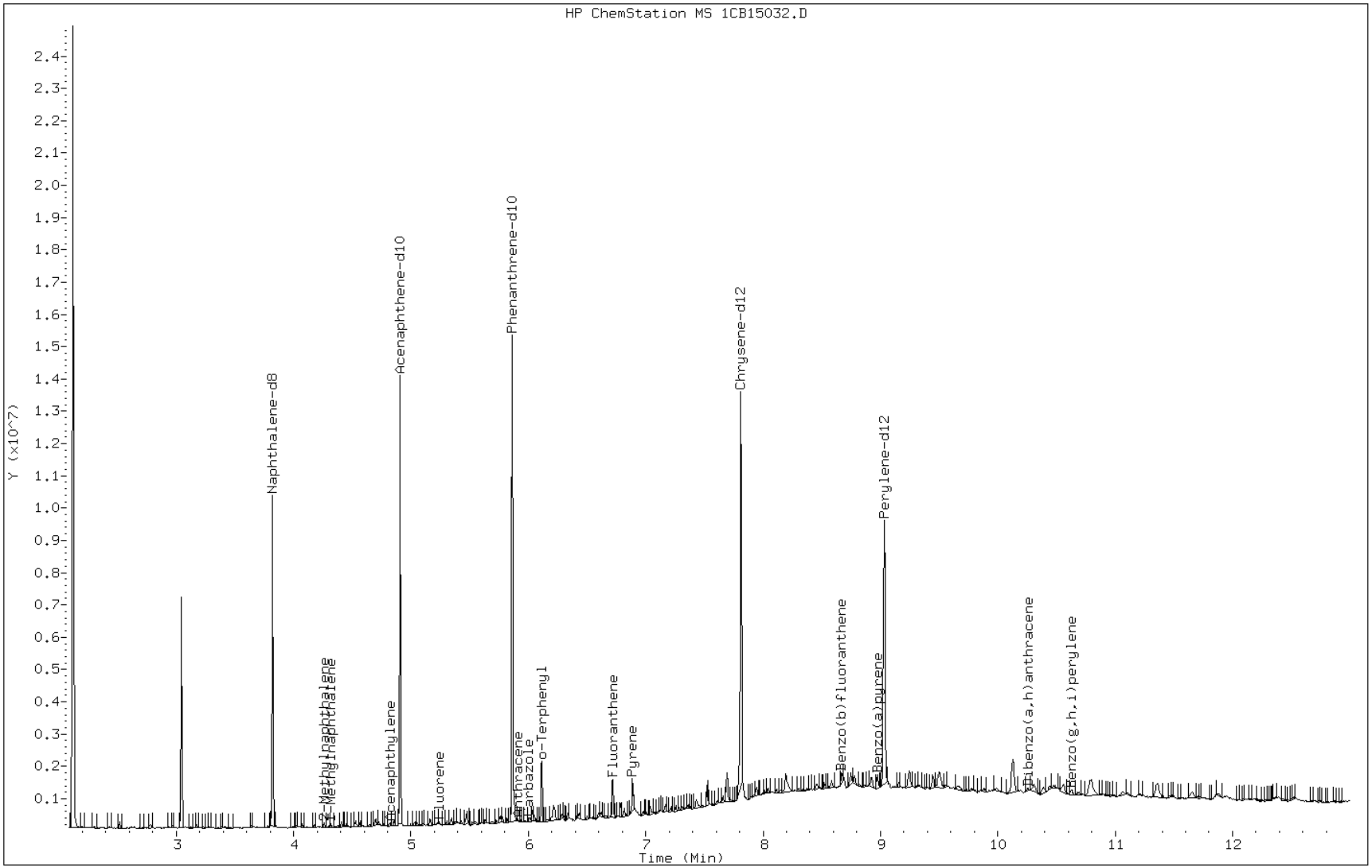
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS | Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a | Operator: SCC



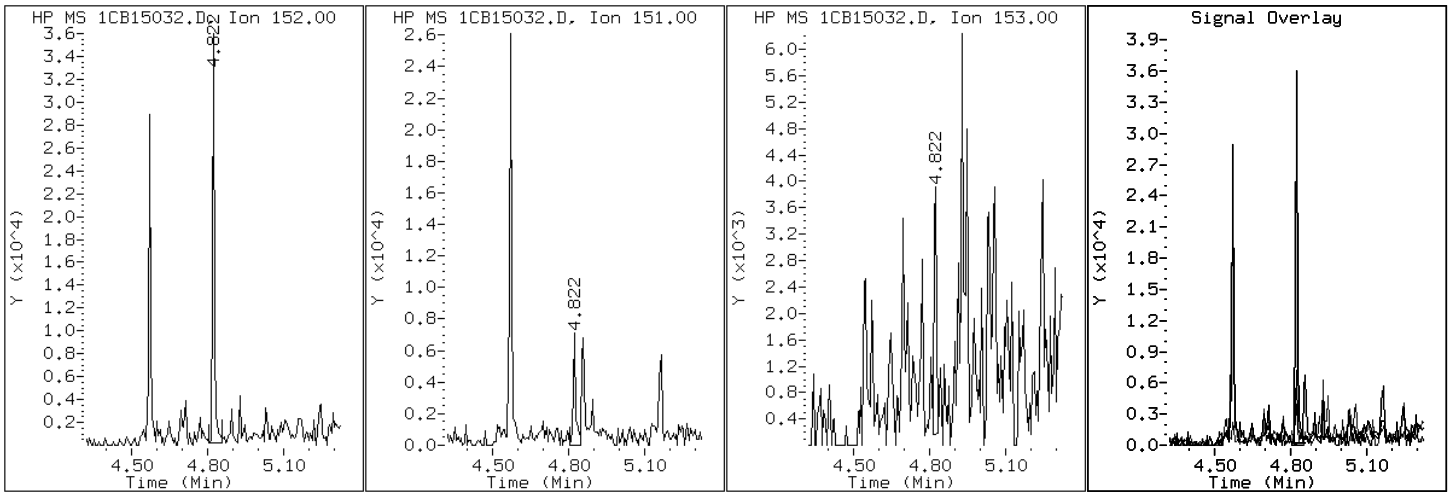
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

5 Acenaphthylene



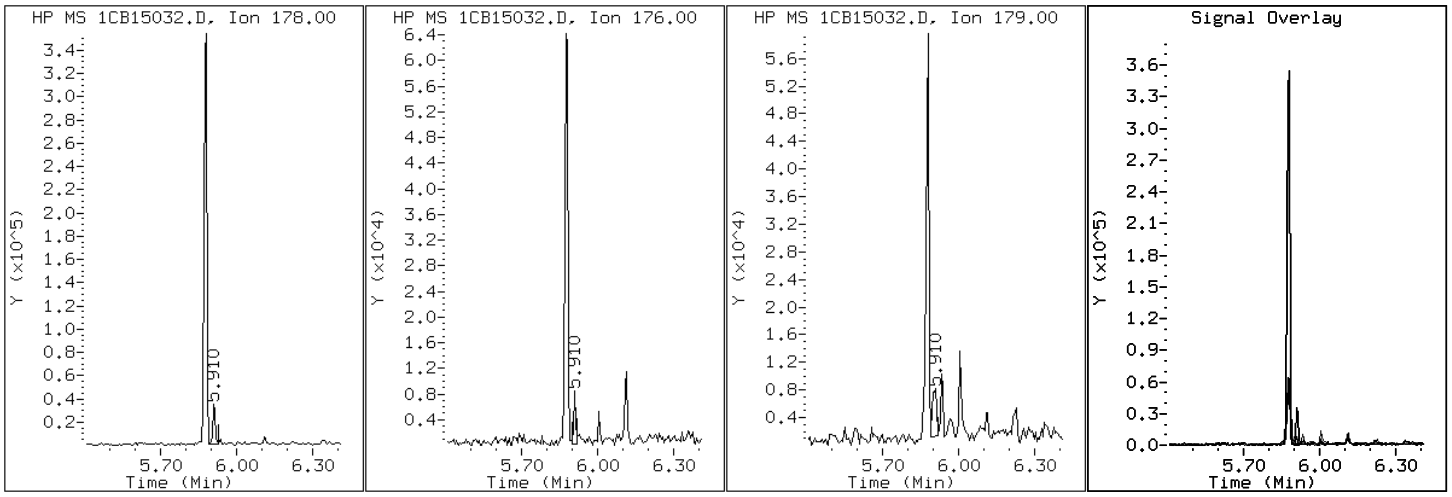
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

12 Anthracene



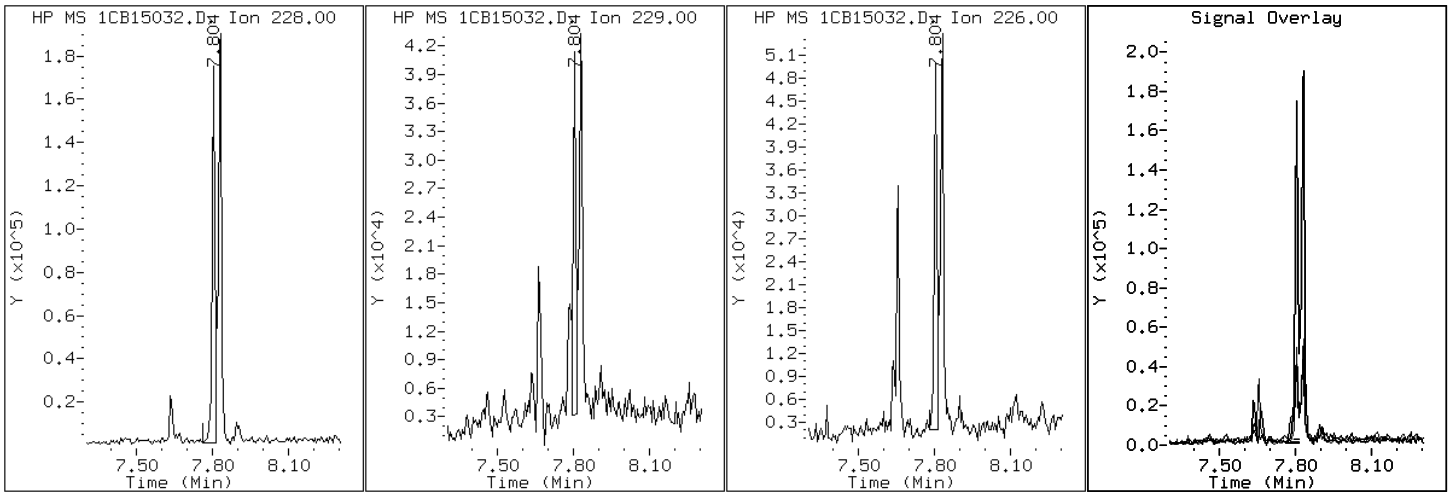
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

17 Benzo(a)anthracene



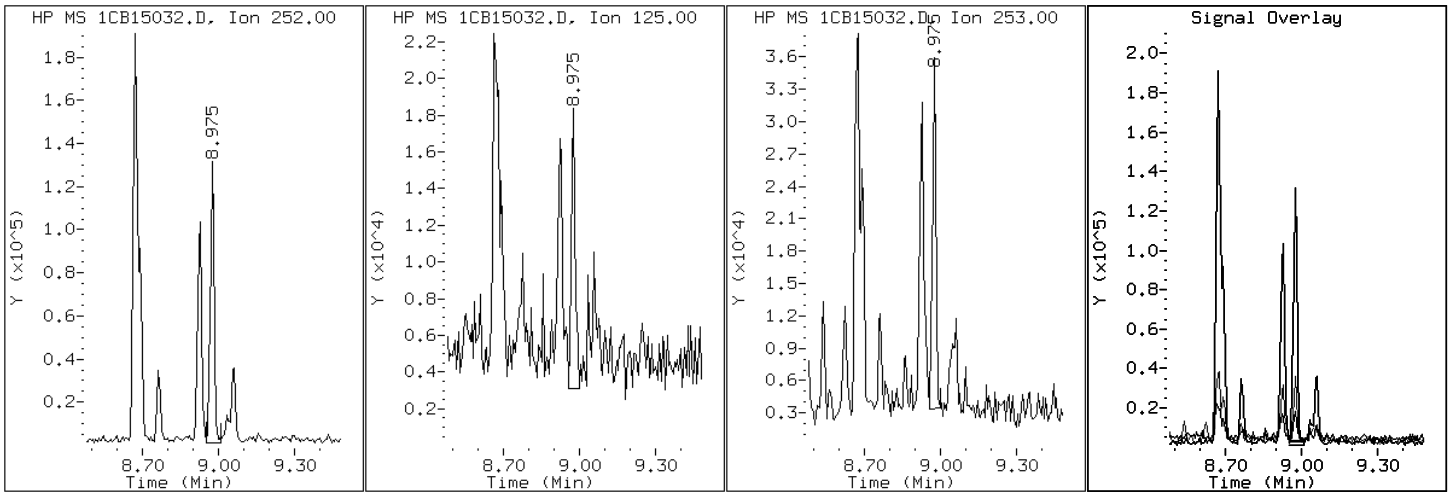
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

22 Benzo(a)pyrene



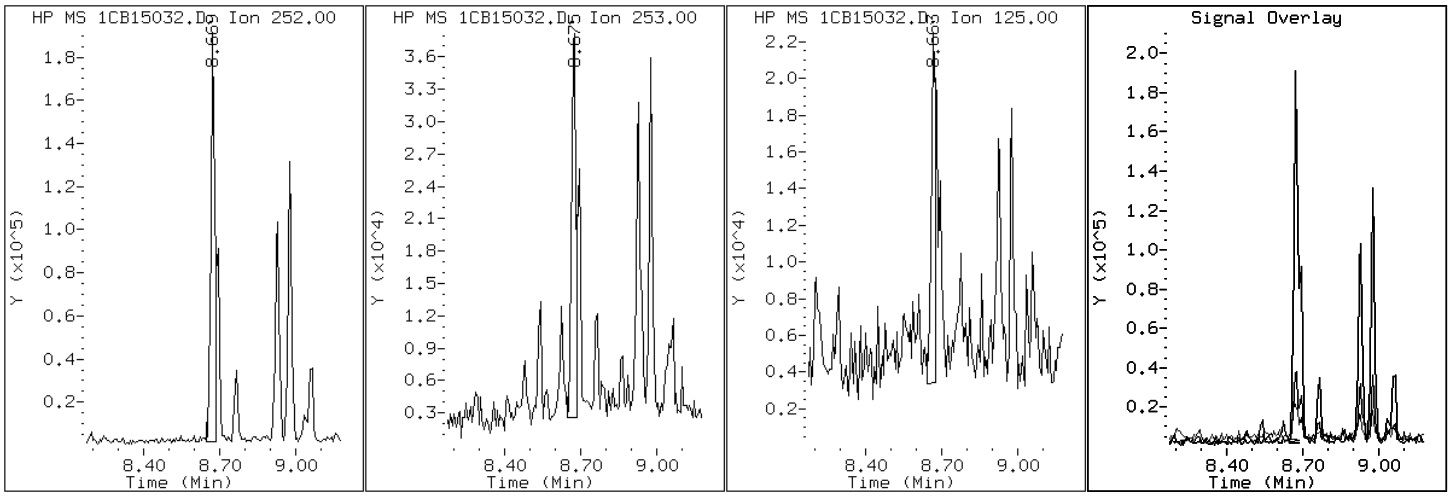
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

20 Benzo(b)fluoranthene



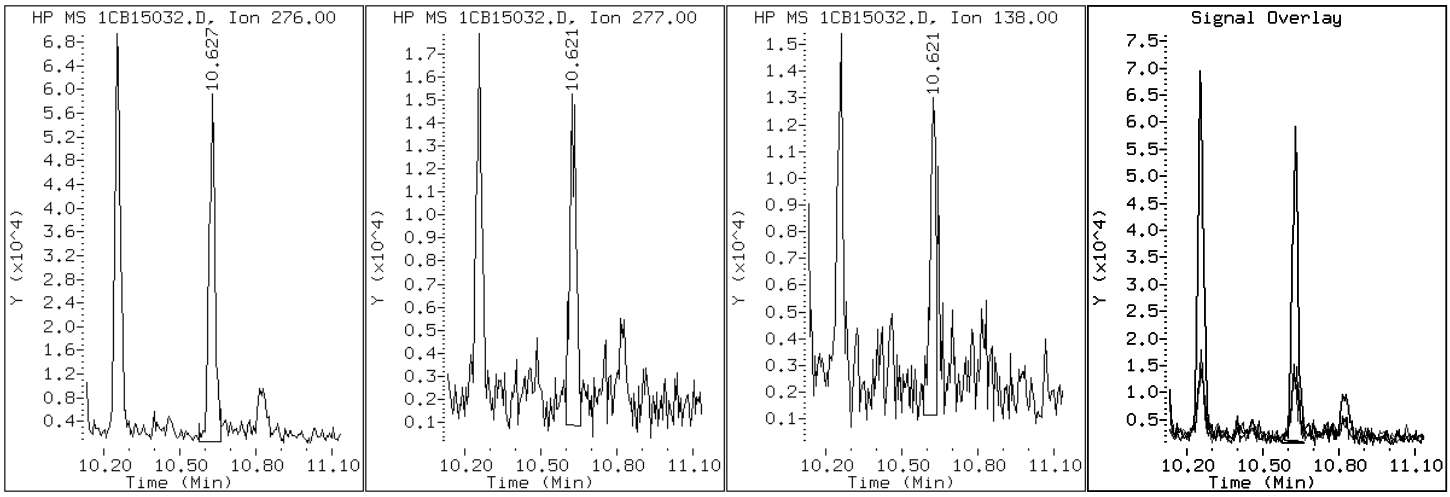
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

26 Benzo(g,h,i)perylene



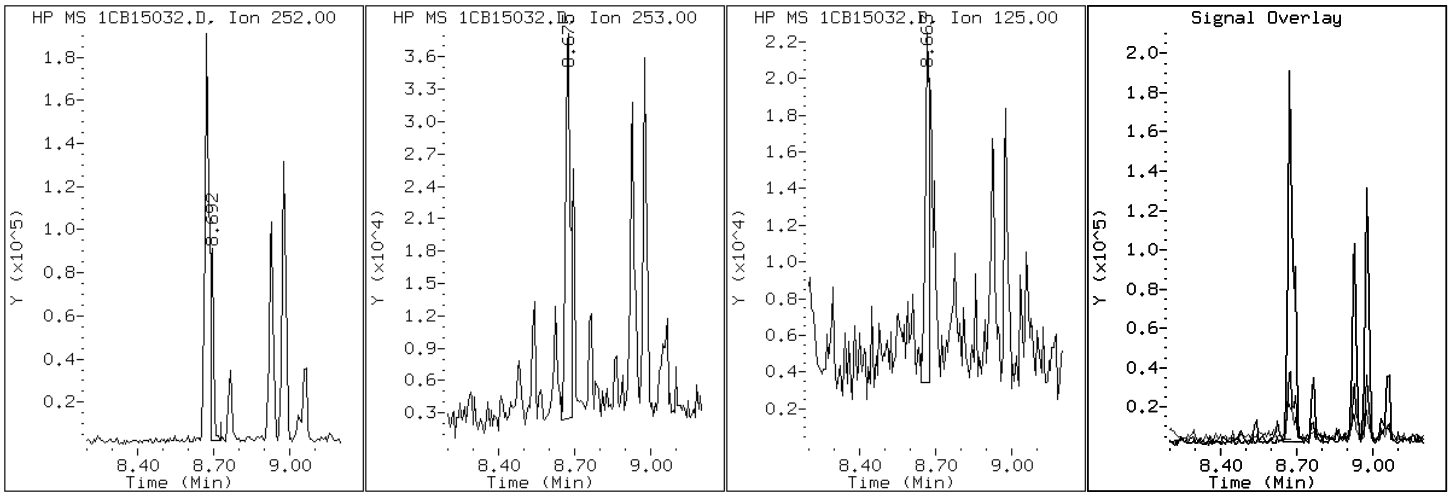
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

21 Benzo(k)fluoranthene



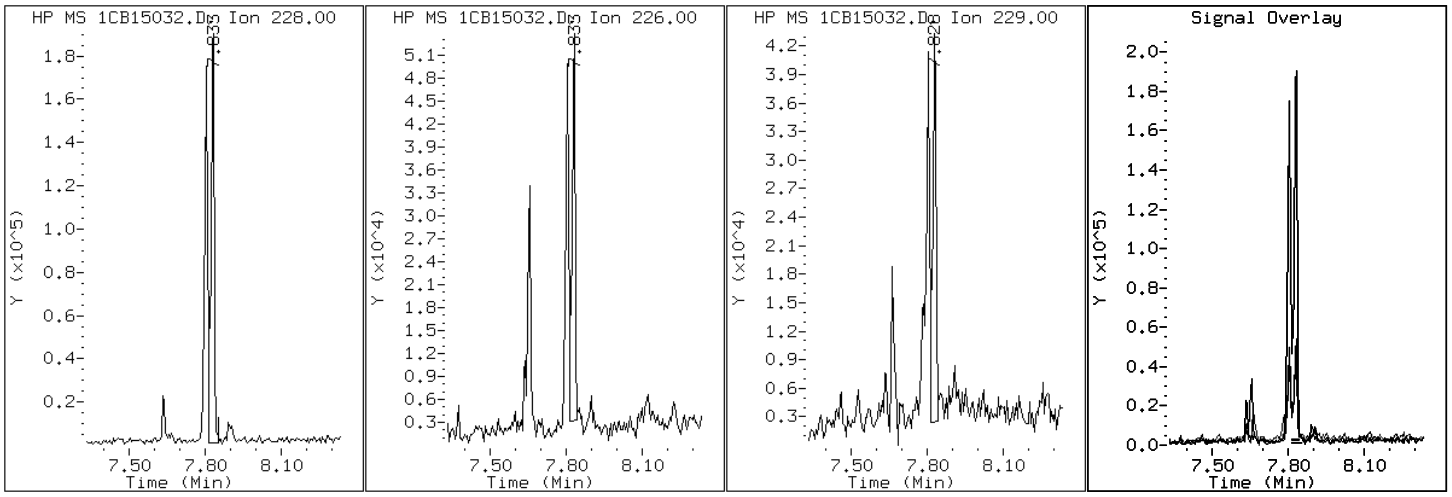
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

19 Chrysene



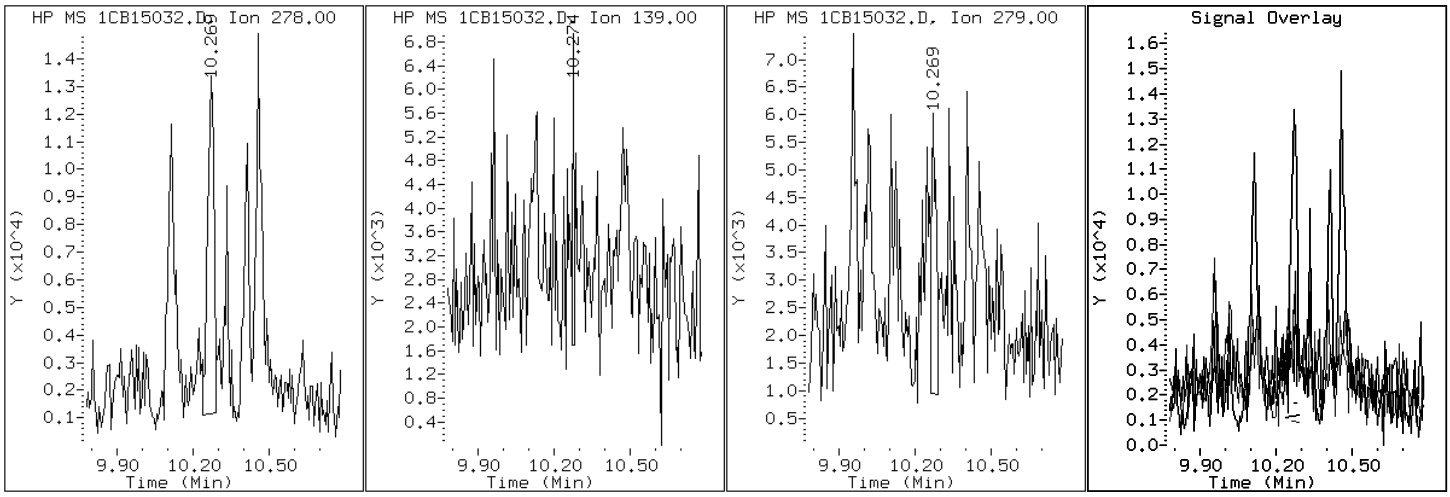
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

25 Dibenzo(a,h)anthracene



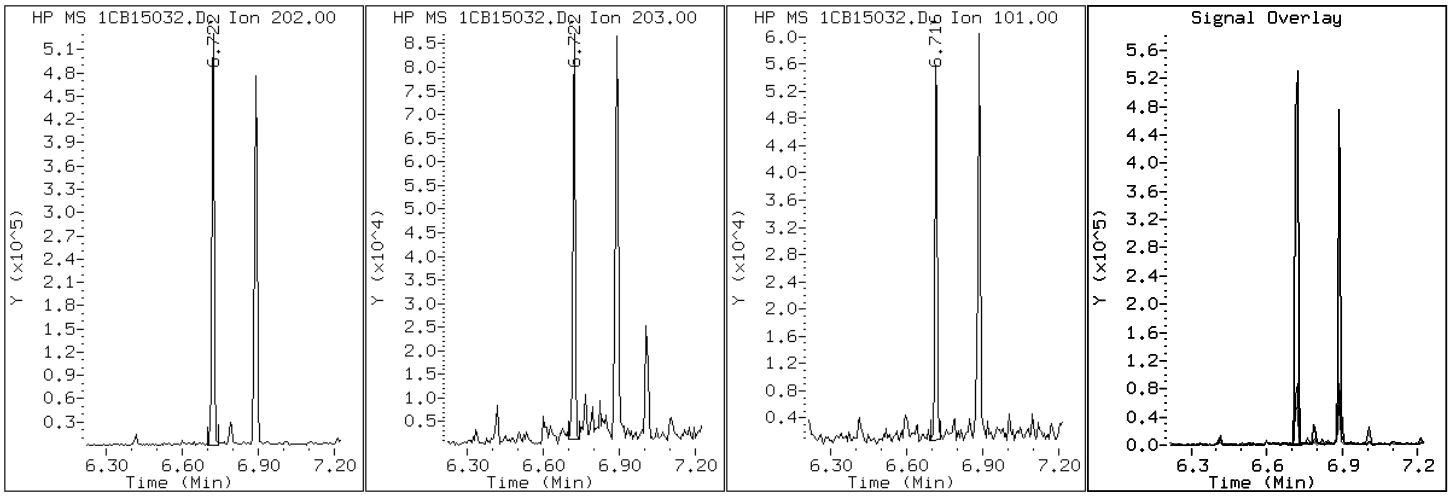
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

15 Fluoranthene



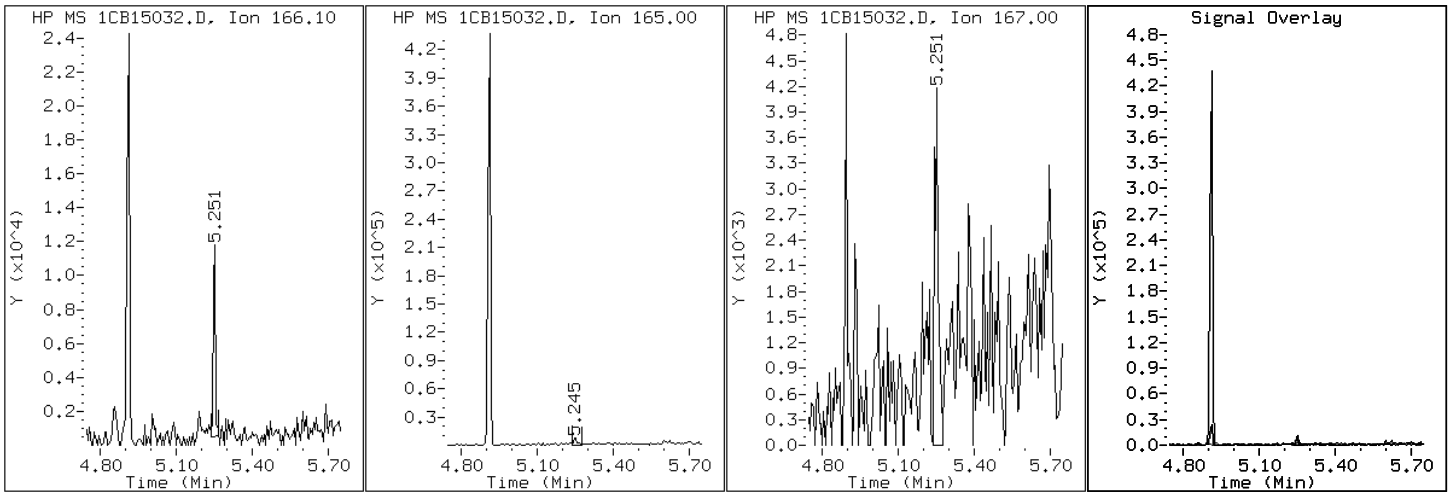
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

9 Fluorene



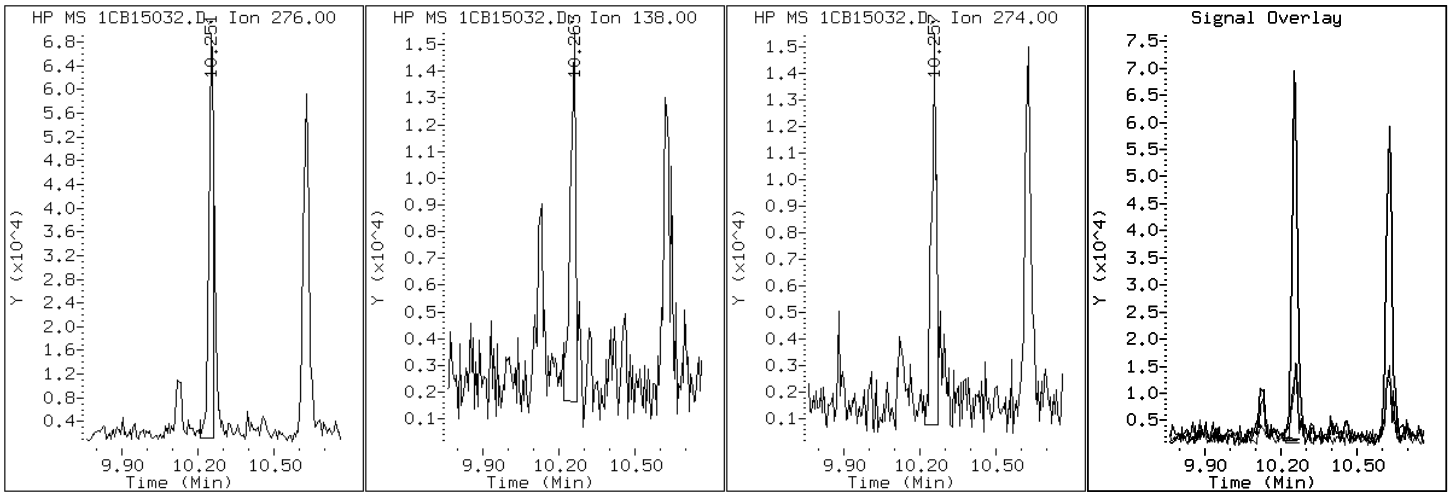
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

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



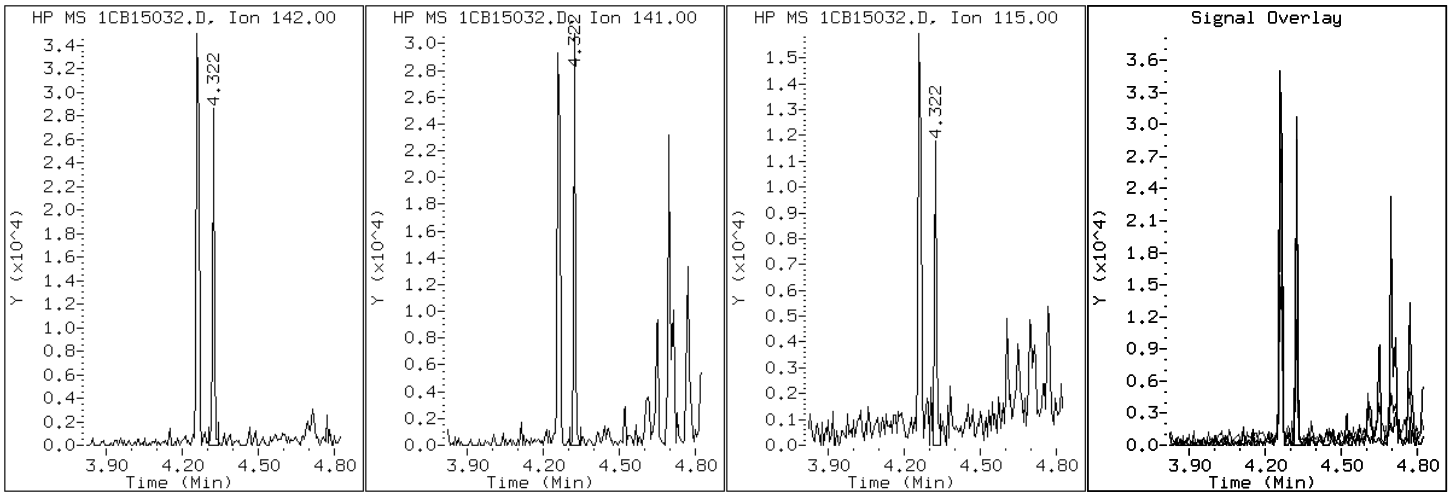
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

4 1-Methylnaphthalene



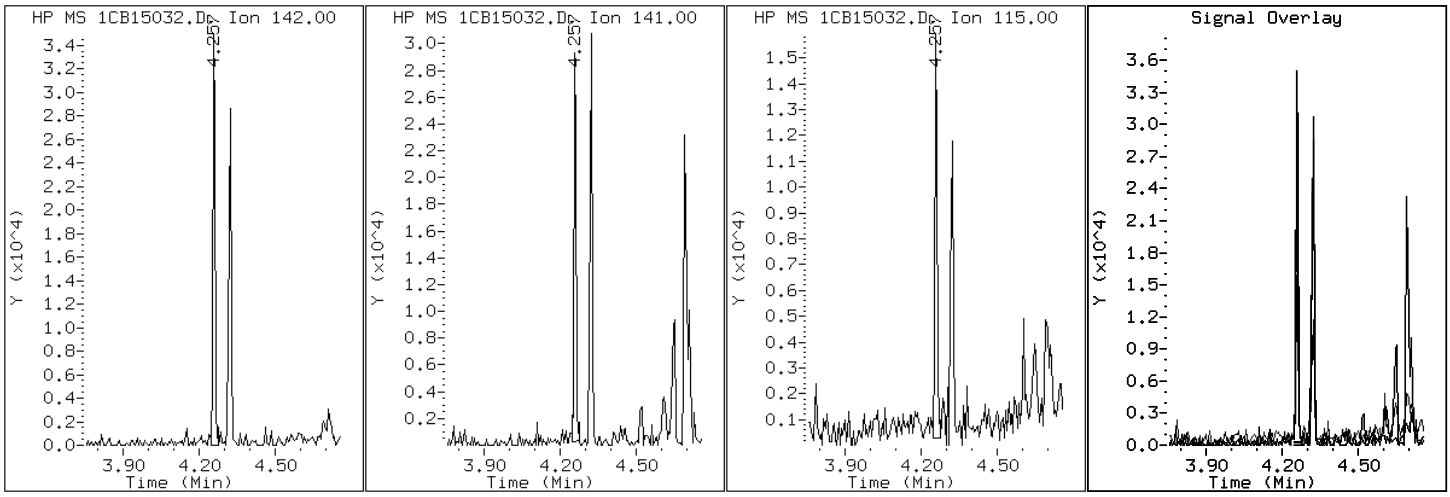
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

3 2-Methylnaphthalene



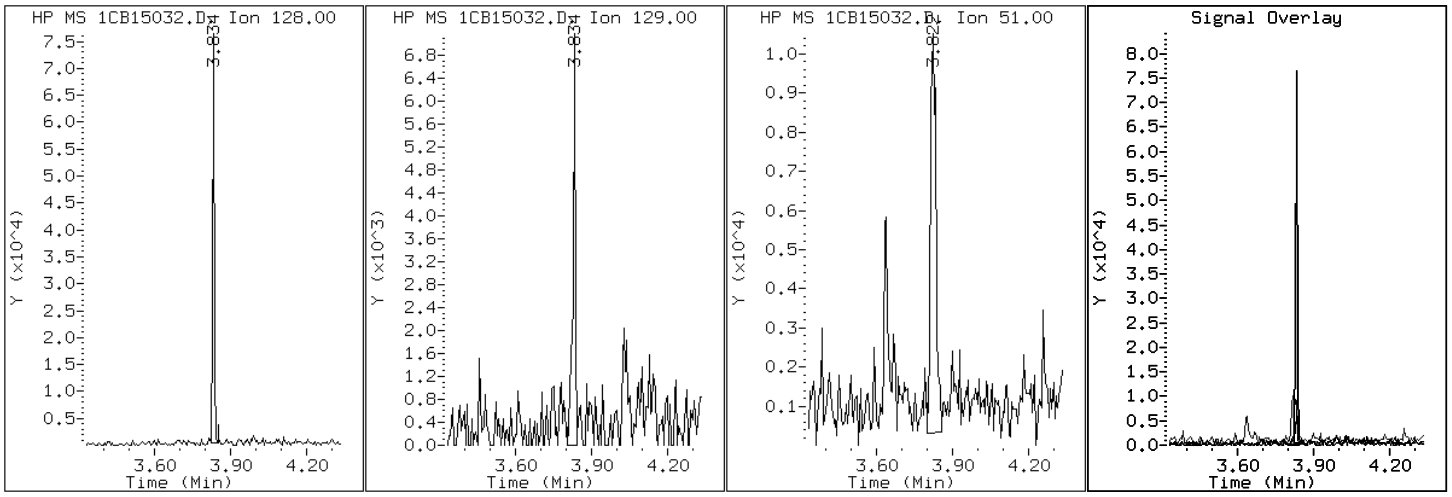
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

2 Naphthalene



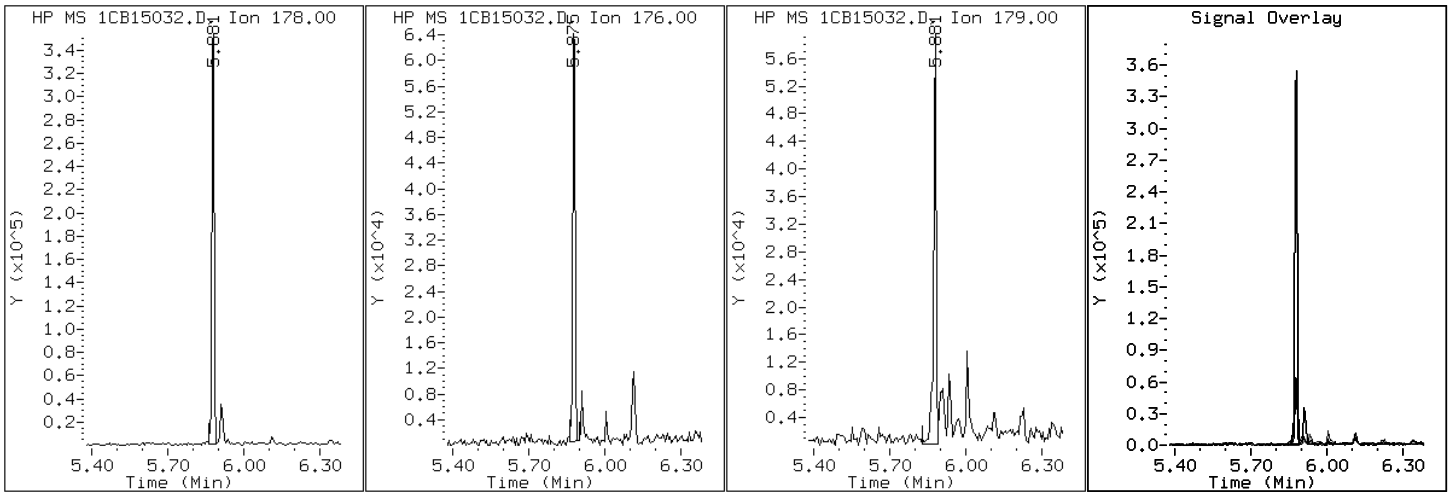
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

11 Phenanthrene



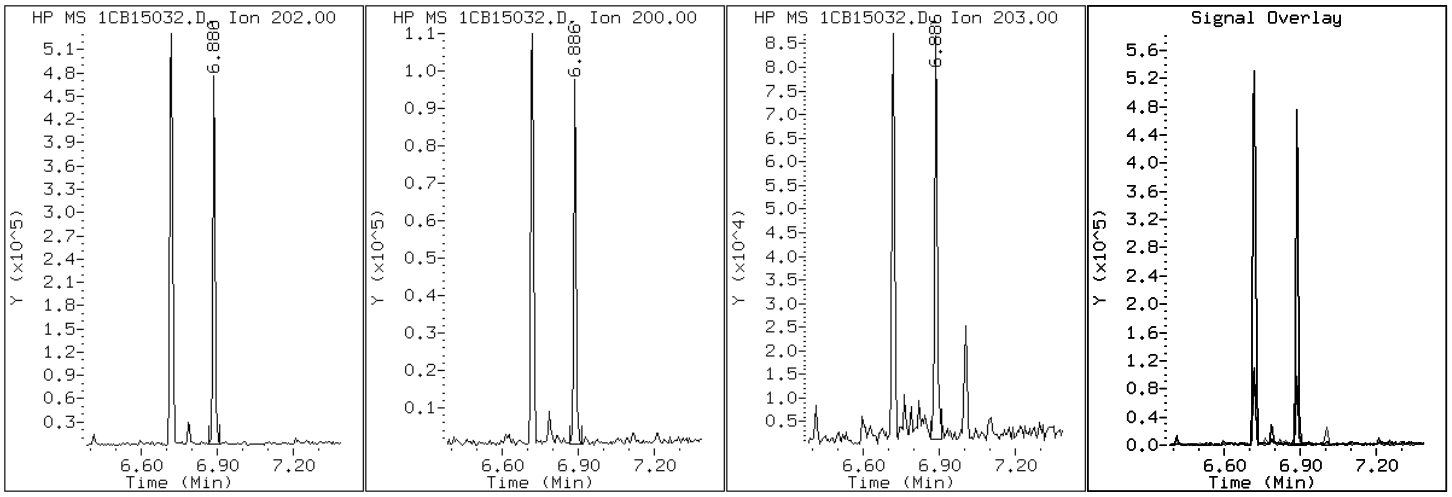
Data File: 1CB15032.D

Date: 15-FEB-2013 20:39

Client ID: CV0005P-CS Instrument: BSMC5973.i

Sample Info: 680-87318-a-24-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB15032.D
Inj. Date and Time: 15-FEB-2013 20:39
Instrument ID: BSMC5973.i
Client ID: CV0005P-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/19/2013

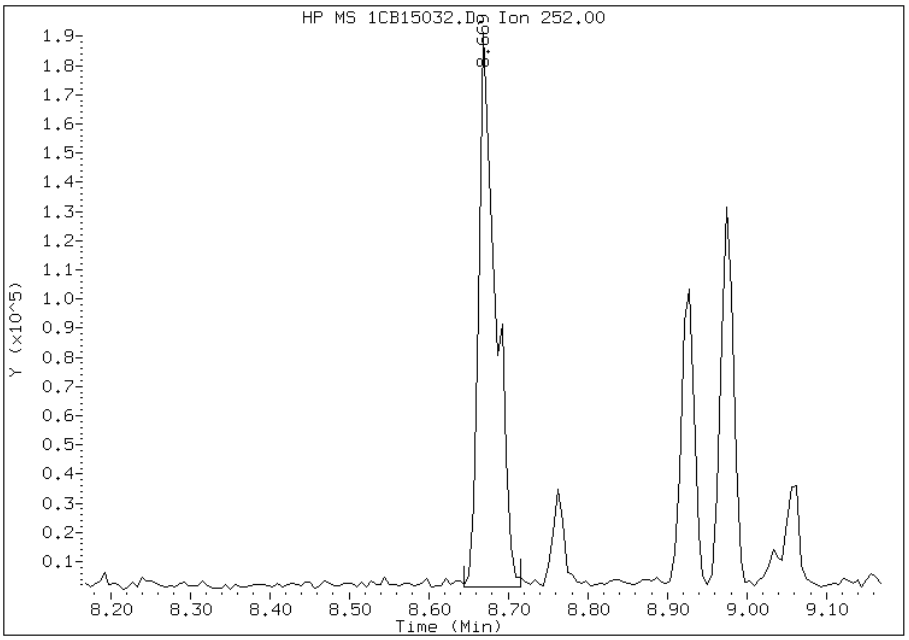
Processing Integration Results

RT: 8.67

Response: 287164

Amount: 4

Conc: 242



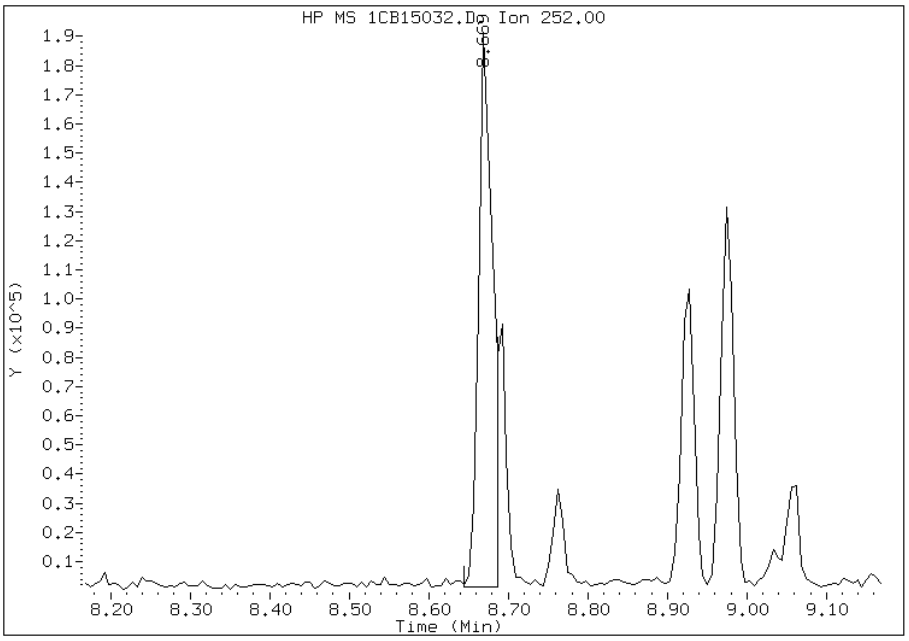
Manual Integration Results

RT: 8.67

Response: 232410

Amount: 3

Conc: 196



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:22
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB15032.D
Inj. Date and Time: 15-FEB-2013 20:39
Instrument ID: BSMC5973.i
Client ID: CV0005P-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/19/2013

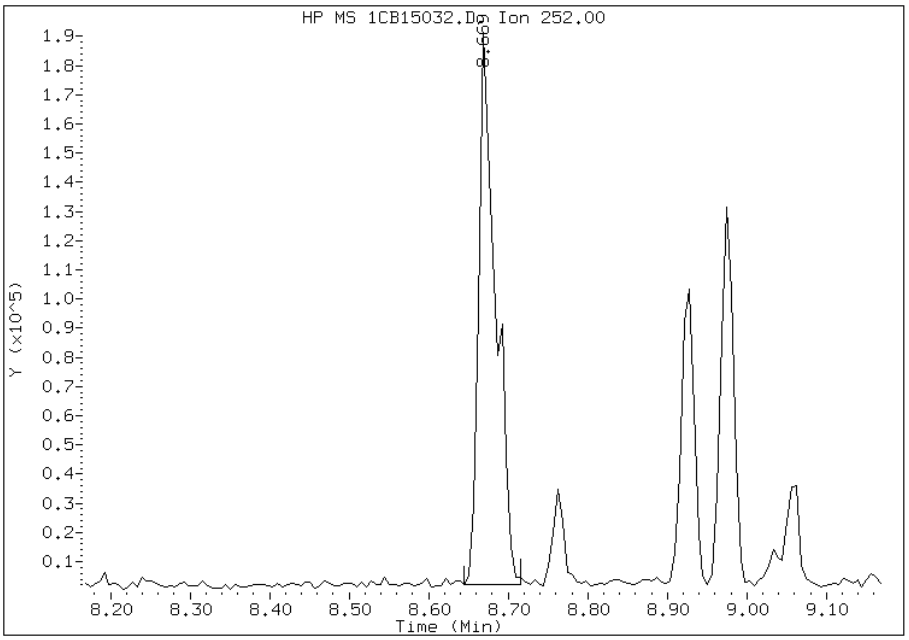
Processing Integration Results

RT: 8.67

Response: 284771

Amount: 3

Conc: 218



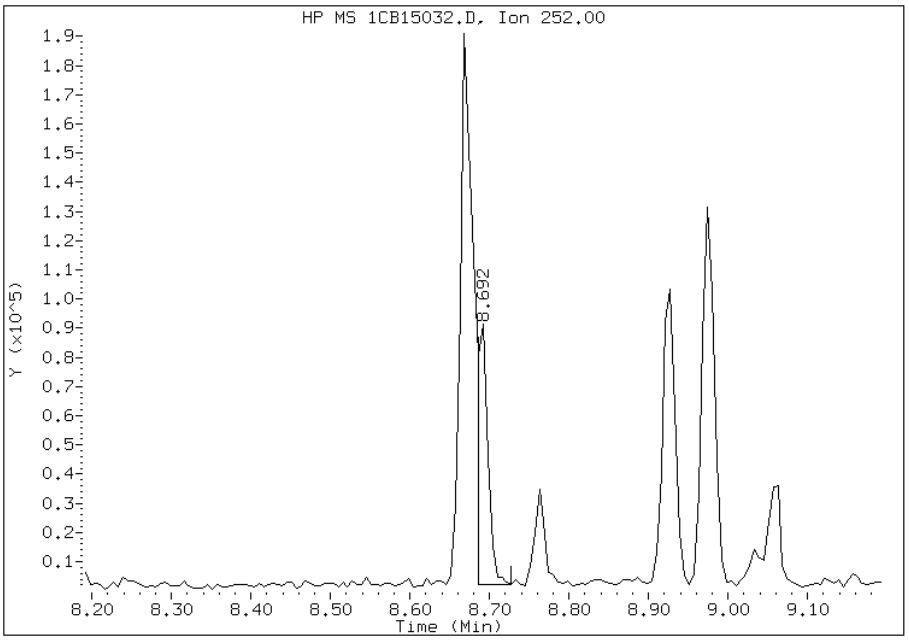
Manual Integration Results

RT: 8.69

Response: 81654

Amount: 1

Conc: 62



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:22
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB15032.D
Inj. Date and Time: 15-FEB-2013 20:39
Instrument ID: BSMC5973.i
Client ID: CV0005P-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

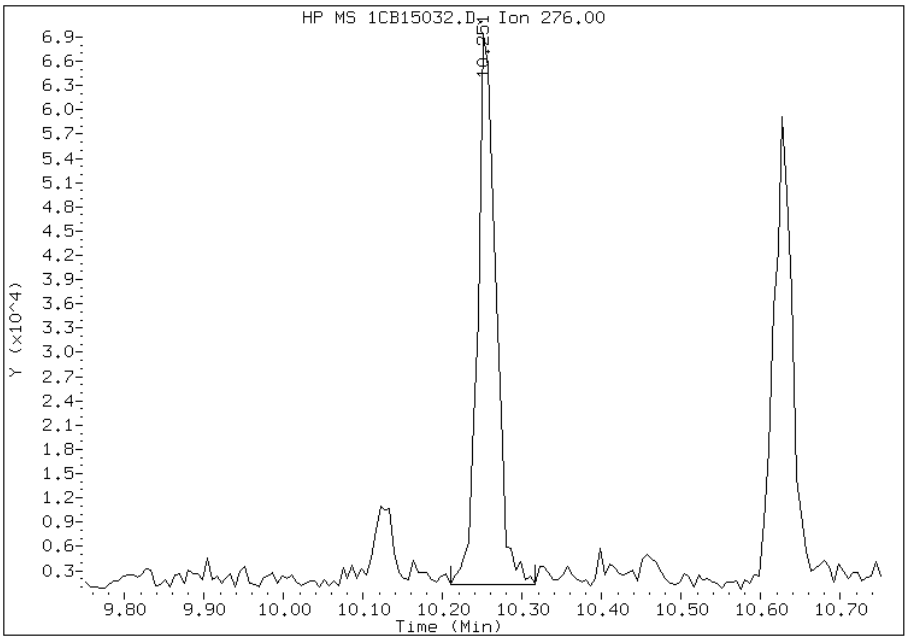
Processing Integration Results

RT: 10.25

Response: 109258

Amount: 1

Conc: 101



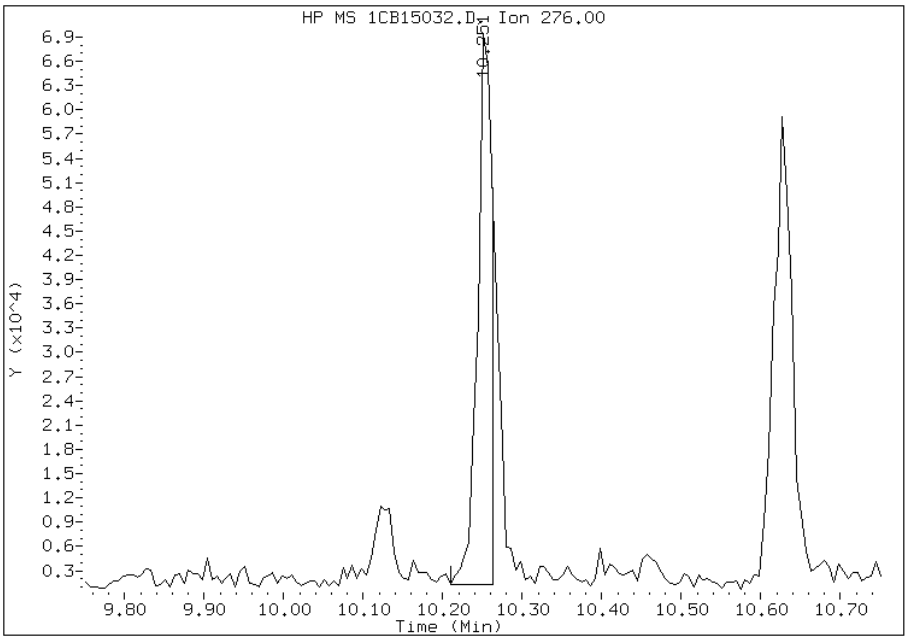
Manual Integration Results

RT: 10.25

Response: 86219

Amount: 1

Conc: 80



Manually Integrated By: cantins
Modification Date: 19-Feb-2013 09:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005R-CS | Lab Sample ID: 680-87318-25

Matrix: Solid | Lab File ID: 1AB15034.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 14:11

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 14.96(g) | Date Analyzed: 02/15/2013 22:25

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

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

% Moisture: 25.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	62	J	220	27
120-12-7	Anthracene	98		45	23
56-55-3	Benzo[a]anthracene	370		43	21
50-32-8	Benzo[a]pyrene	270		56	28
205-99-2	Benzo[b]fluoranthene	390		66	33
191-24-2	Benzo[g,h,i]perylene	310		110	24
207-08-9	Benzo[k]fluoranthene	200		43	19
218-01-9	Chrysene	400		49	24
53-70-3	Dibenz(a,h)anthracene	100	J	110	22
206-44-0	Fluoranthene	520		110	22
86-73-7	Fluorene	28	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	250		110	38
90-12-0	1-Methylnaphthalene	90	J	220	24
91-57-6	2-Methylnaphthalene	130	J	220	38
91-20-3	Naphthalene	130	J	220	24
85-01-8	Phenanthrene	320		43	21
129-00-0	Pyrene	410		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	94		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15034.D
Lab Smp Id: 680-87318-A-25-A Client Smp ID: CV0005R-CS
Inj Date : 15-FEB-2013 22:25
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-25-a
Misc Info : 680-87318-A-25-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 31
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.960	Weight Extracted
M	25.790	% 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	2.421	2.415	(1.000)	761354	40.0000	
* 6 Acenaphthene-d10	164	3.447	3.441	(1.000)	509792	40.0000	
* 10 Phenanthrene-d10	188	4.392	4.386	(1.000)	783670	40.0000	
$ 14 o-Terphenyl	230	4.670	4.664	(1.063)	26878	2.36038	850.4483
* 18 Chrysene-d12	240	6.417	6.411	(1.000)	661052	40.0000	
* 23 Perylene-d12	264	7.518	7.501	(1.000)	793286	40.0000	
2 Naphthalene	128	2.432	2.426	(1.004)	6680	0.36147	130.2398
3 2-Methylnaphthalene	141	2.832	2.832	(1.170)	3565	0.36010	129.7444
4 1-Methylnaphthalene	142	2.891	2.885	(1.194)	2799	0.24976	89.9886
5 Acenaphthylene	152	3.361	3.355	(0.975)	3900	0.17326	62.4246
9 Fluorene	166	3.773	3.772	(1.095)	1186	0.07742	27.8936(Q)
11 Phenanthrene	178	4.403	4.402	(1.002)	19235	0.89894	323.8874
12 Anthracene	178	4.435	4.434	(1.010)	5959	0.27315	98.4153
13 Carbazole	167	4.595	4.589	(1.046)	3105	0.16604	59.8238

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.269	5.262	(1.199)	30892	1.45618	524.6650
16 Pyrene	202	5.439	5.433	(0.848)	26962	1.12935	406.9067
17 Benzo(a)anthracene	228	6.406	6.395	(0.998)	20099	1.01828	366.8888
19 Chrysene	228	6.428	6.427	(1.002)	21327	1.10852	399.4009
20 Benzo(b)fluoranthene	252	7.234	7.217	(0.962)	24080	1.08759	391.8582(M)
21 Benzo(k)fluoranthene	252	7.240	7.239	(0.963)	12944	0.55916	201.4666(M)
22 Benzo(a)pyrene	252	7.459	7.452	(0.992)	15998	0.76090	274.1516
24 Indeno(1,2,3-cd)pyrene	276	8.255	8.238	(1.098)	11606	0.69907	251.8747(M)
25 Dibenzo(a,h)anthracene	278	8.260	8.254	(1.099)	4711	0.28384	102.2683
26 Benzo(g,h,i)perylene	276	8.468	8.446	(1.126)	14589	0.84821	305.6109

QC Flag Legend

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

Data File: 1AB15034.D

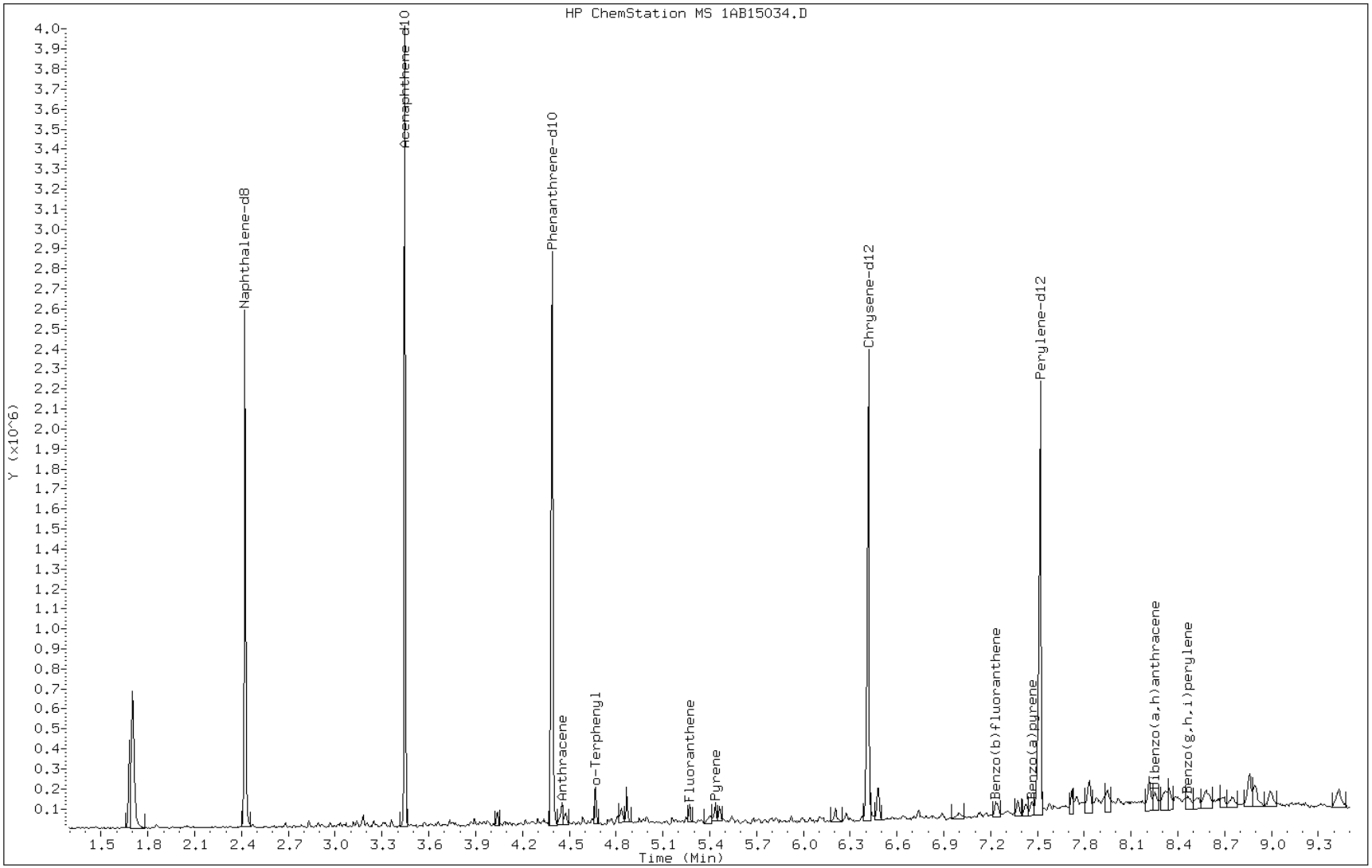
Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a

Operator: SCC



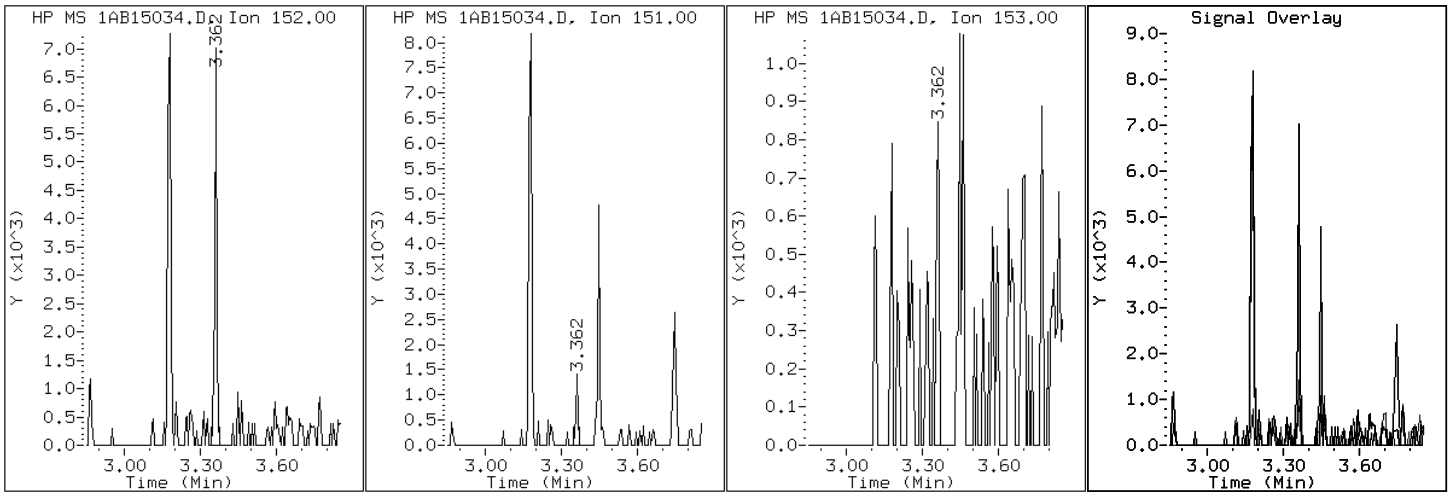
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

5 Acenaphthylene



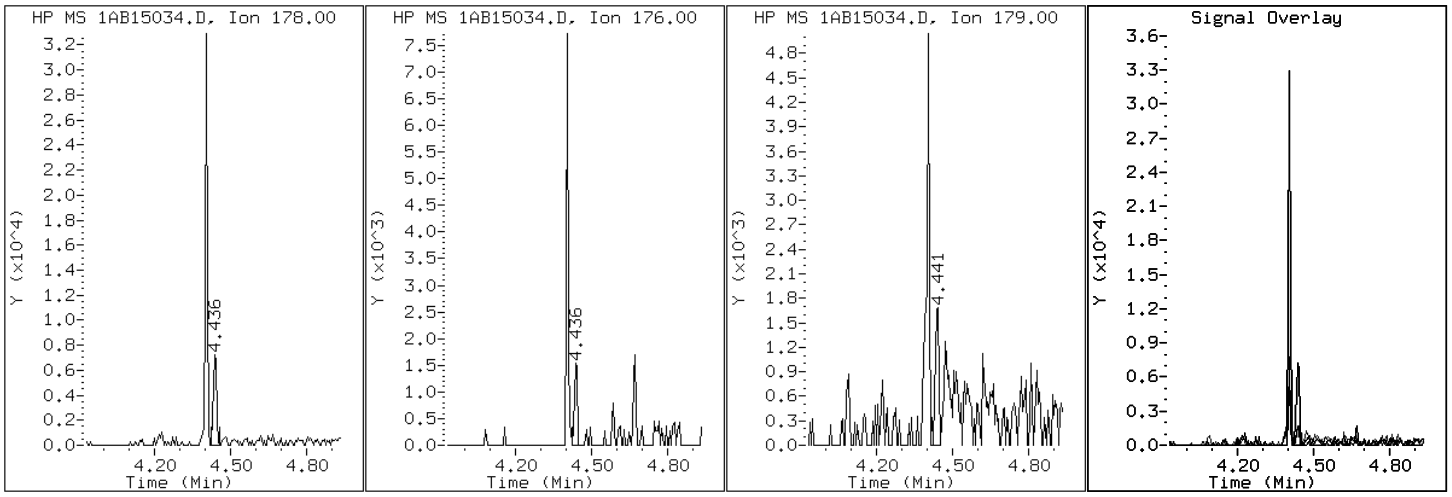
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

12 Anthracene



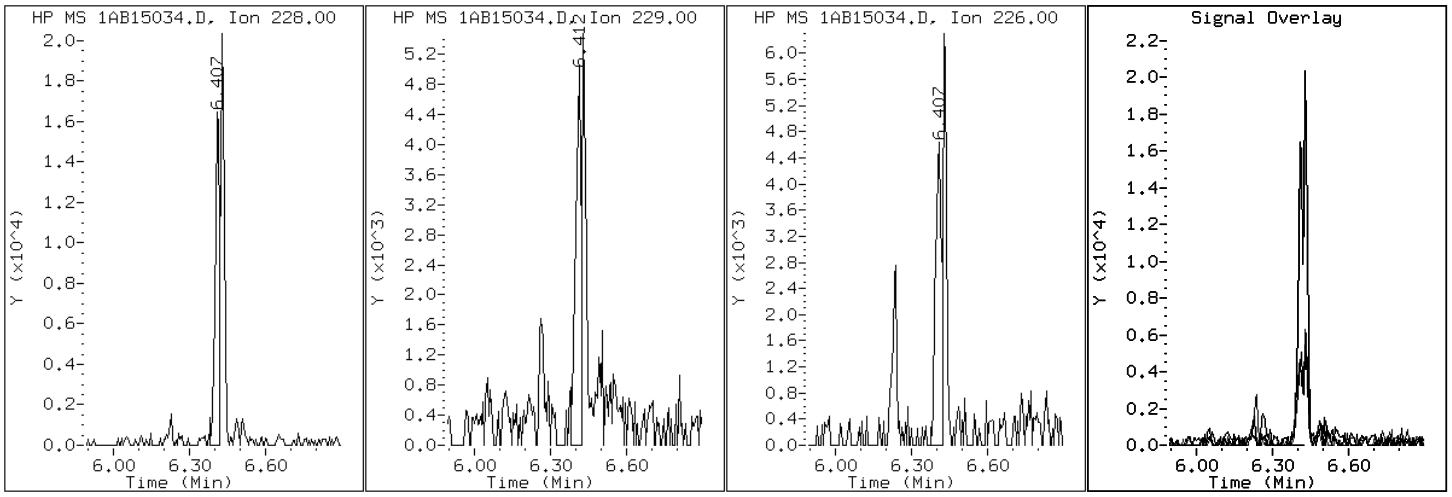
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

17 Benzo(a)anthracene



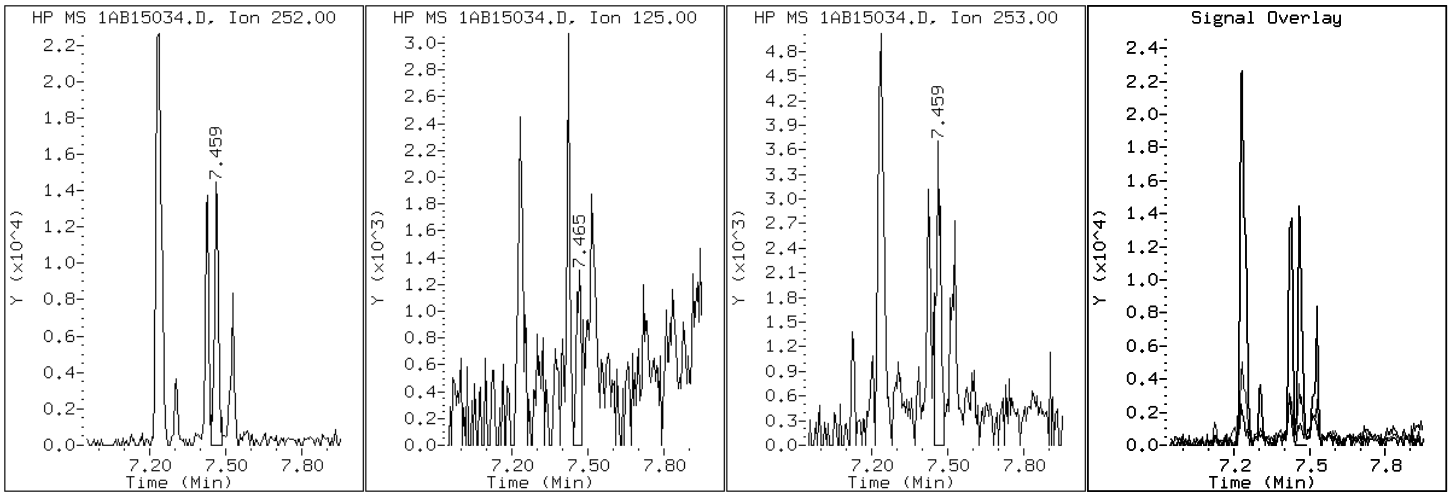
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

22 Benzo(a)pyrene



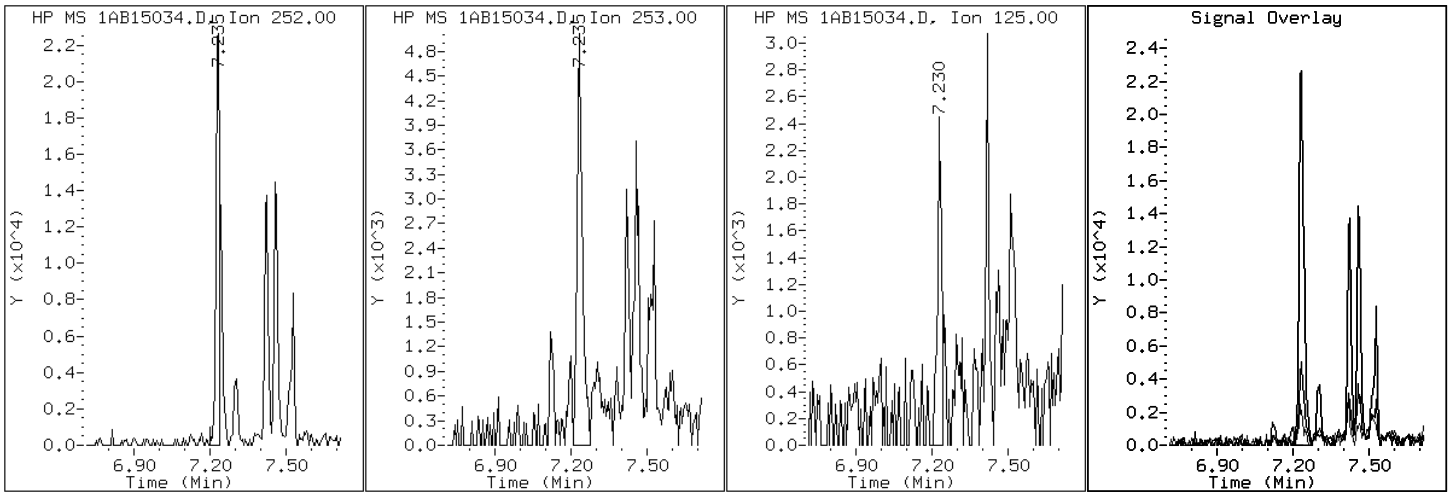
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

20 Benzo(b)fluoranthene



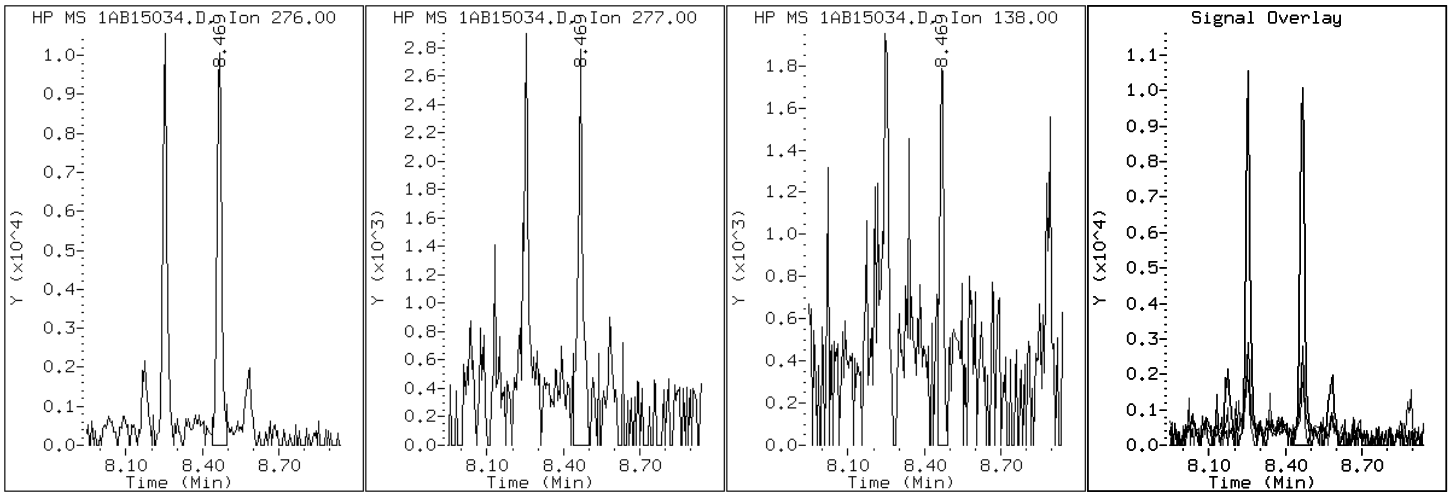
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

26 Benzo(g,h,i)perylene



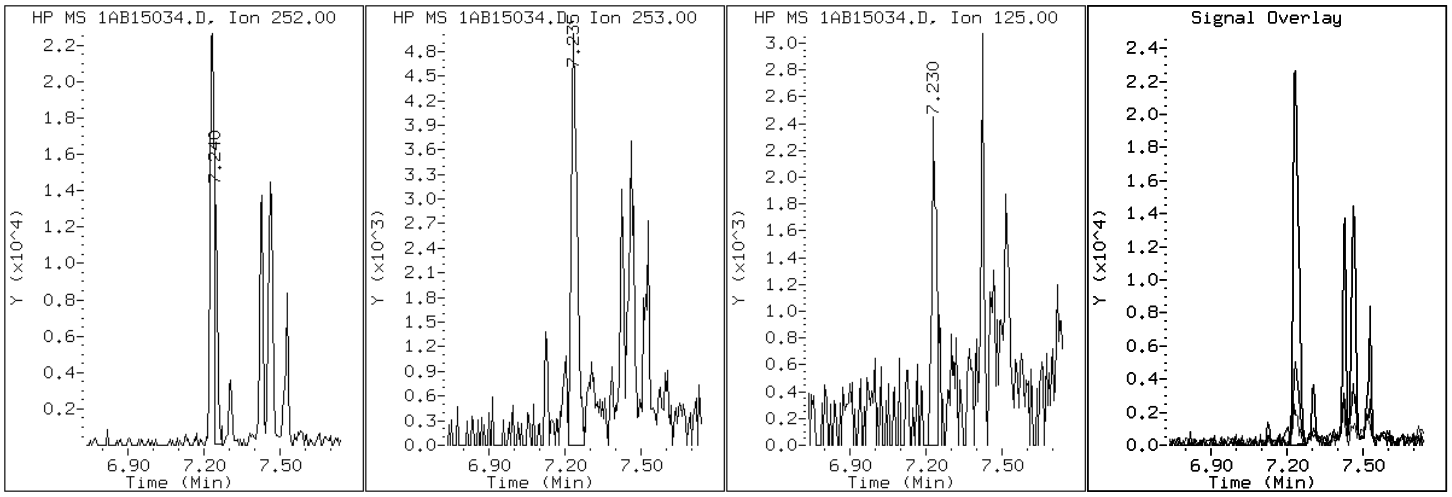
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

21 Benzo(k)fluoranthene



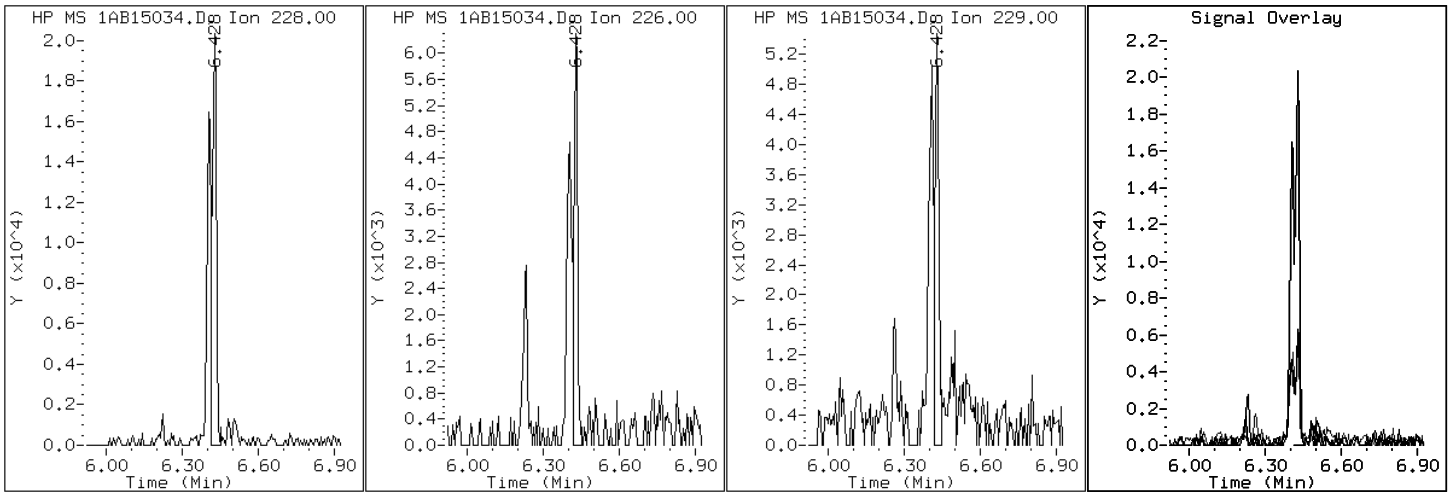
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

19 Chrysene



Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

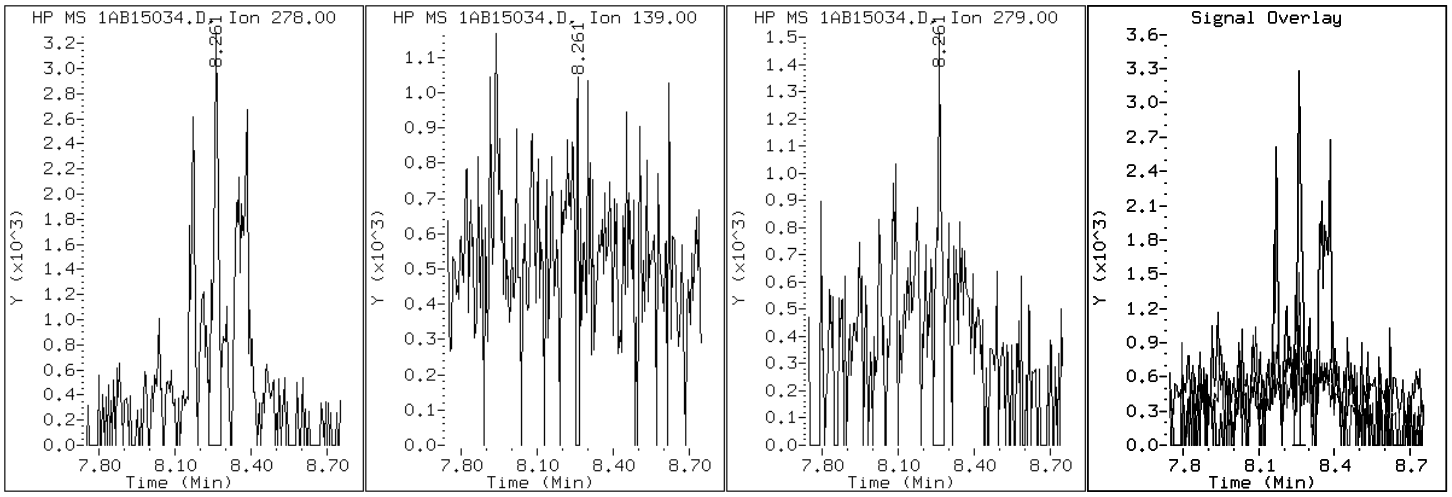
Client ID: CV0005R-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a

Operator: SCC

25 Dibenzo(a,h)anthracene



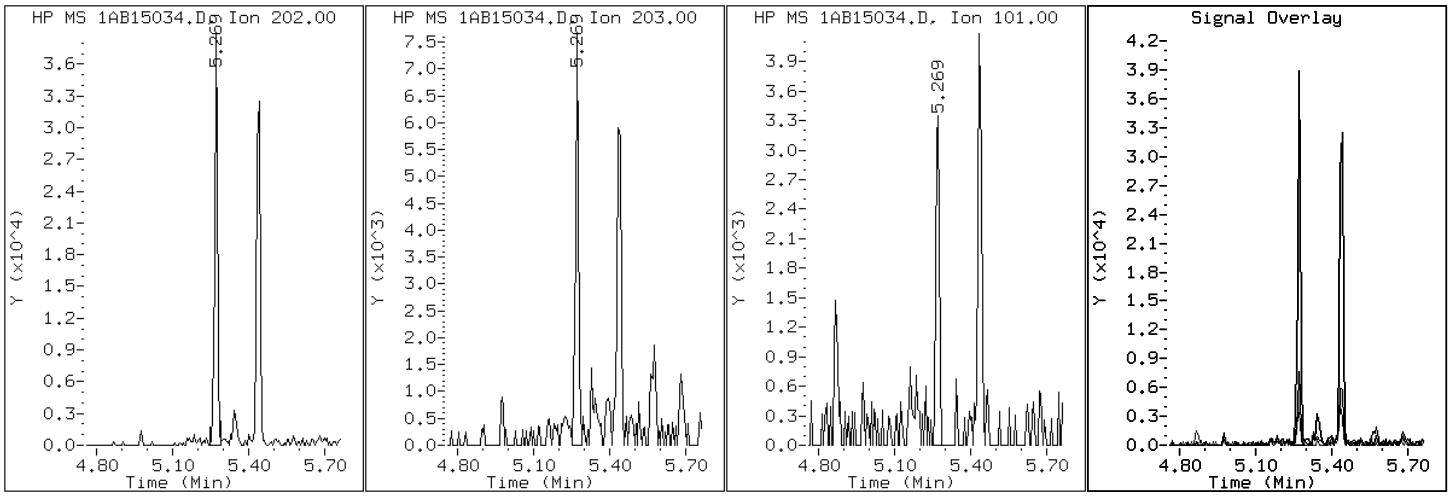
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

15 Fluoranthene



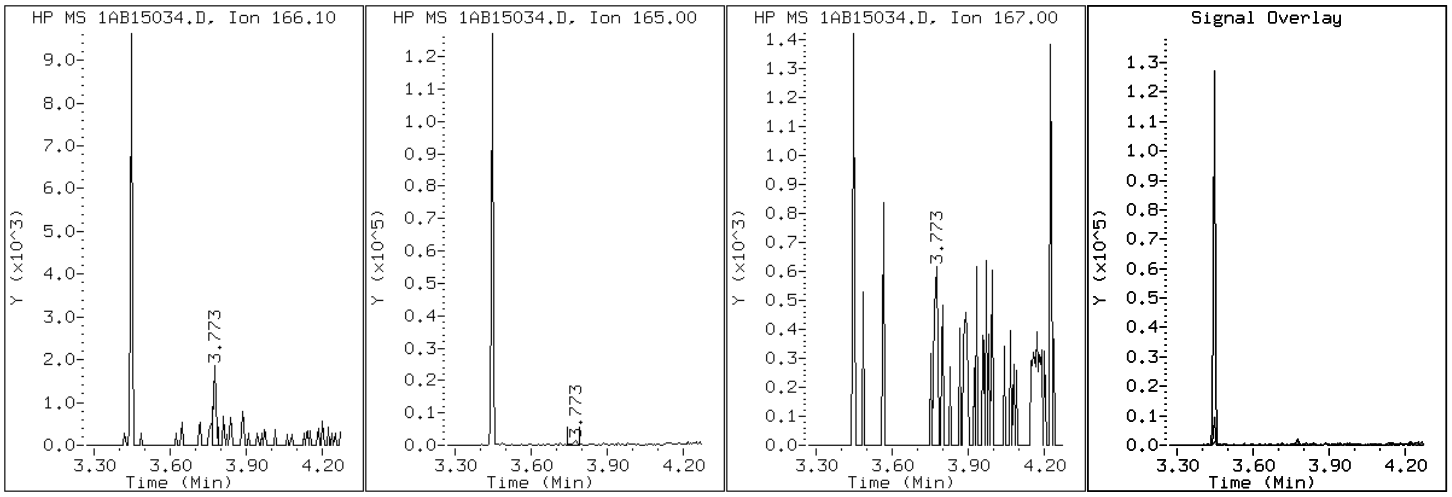
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

9 Fluorene



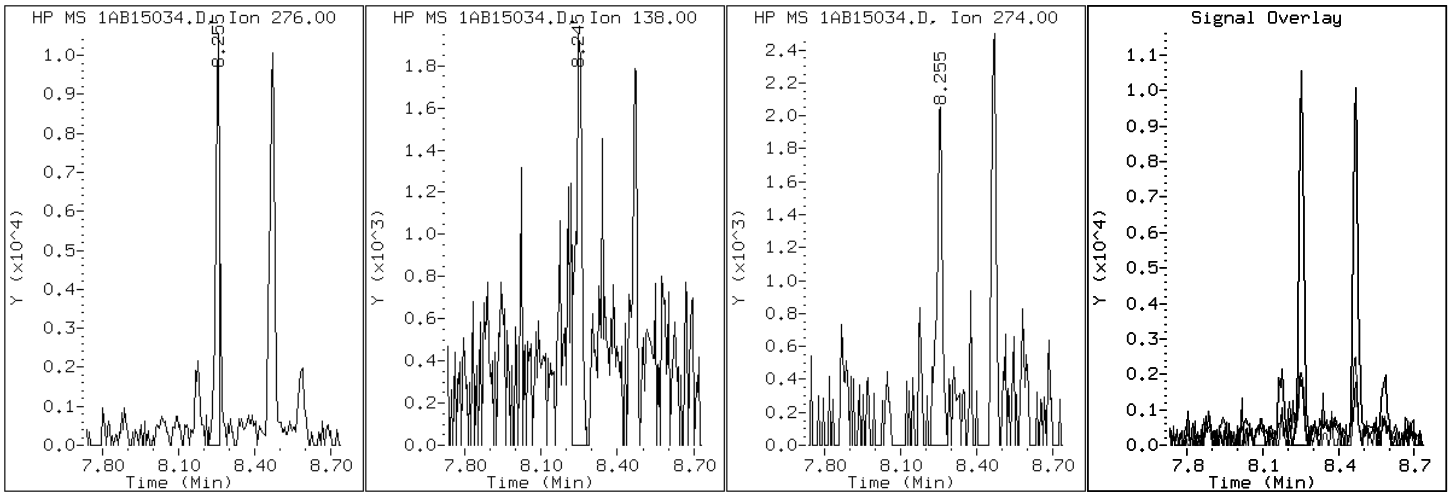
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

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



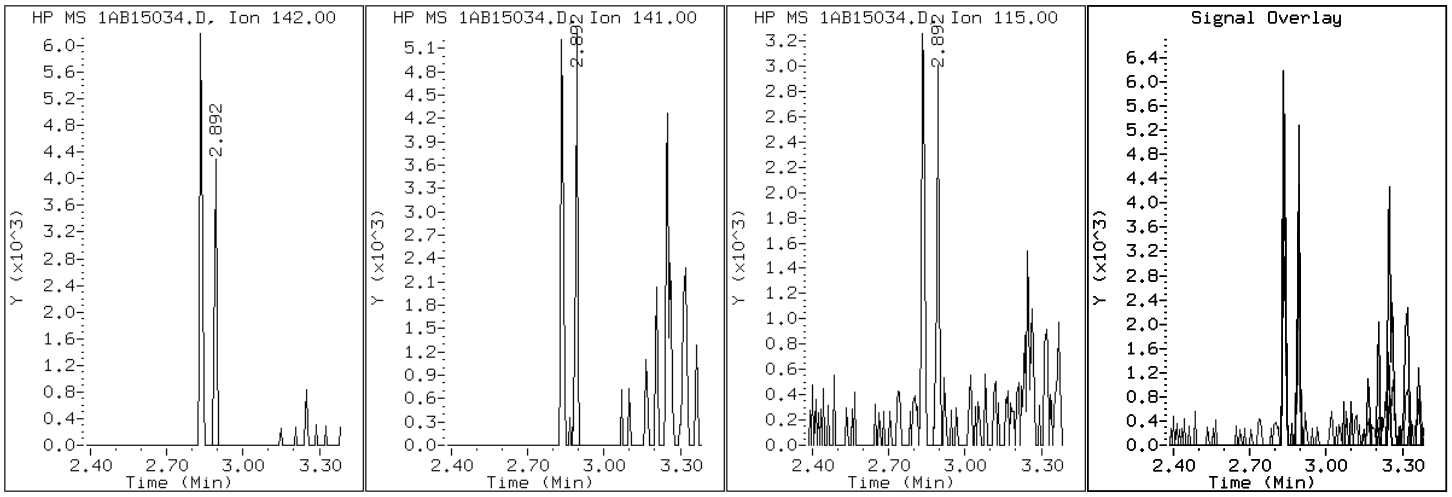
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

4 1-Methylnaphthalene



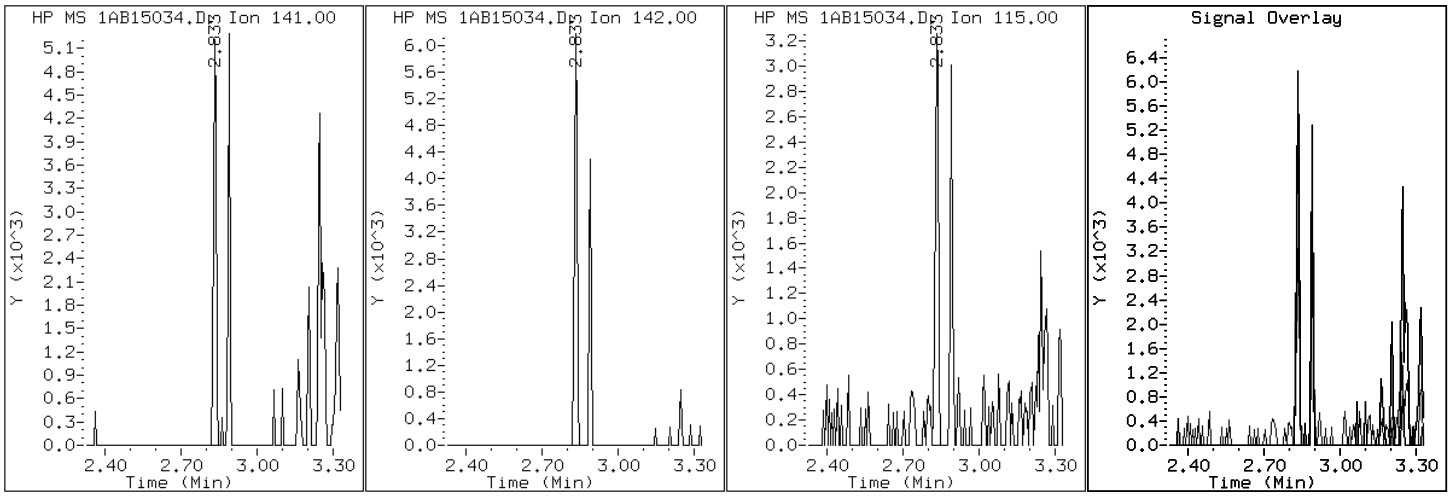
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

3 2-Methylnaphthalene



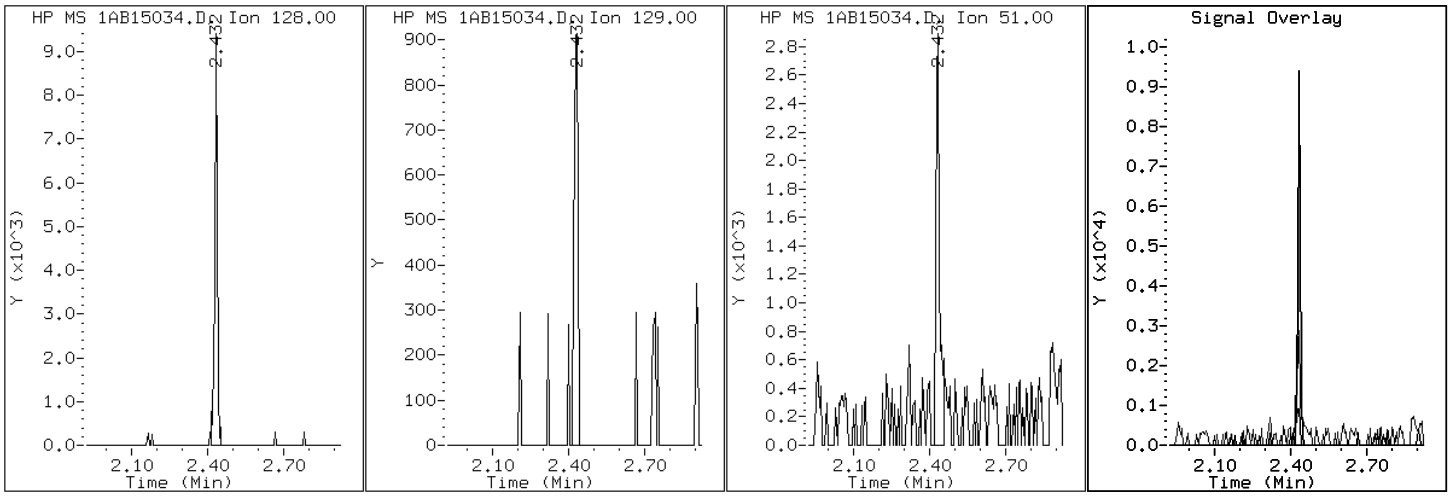
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

2 Naphthalene



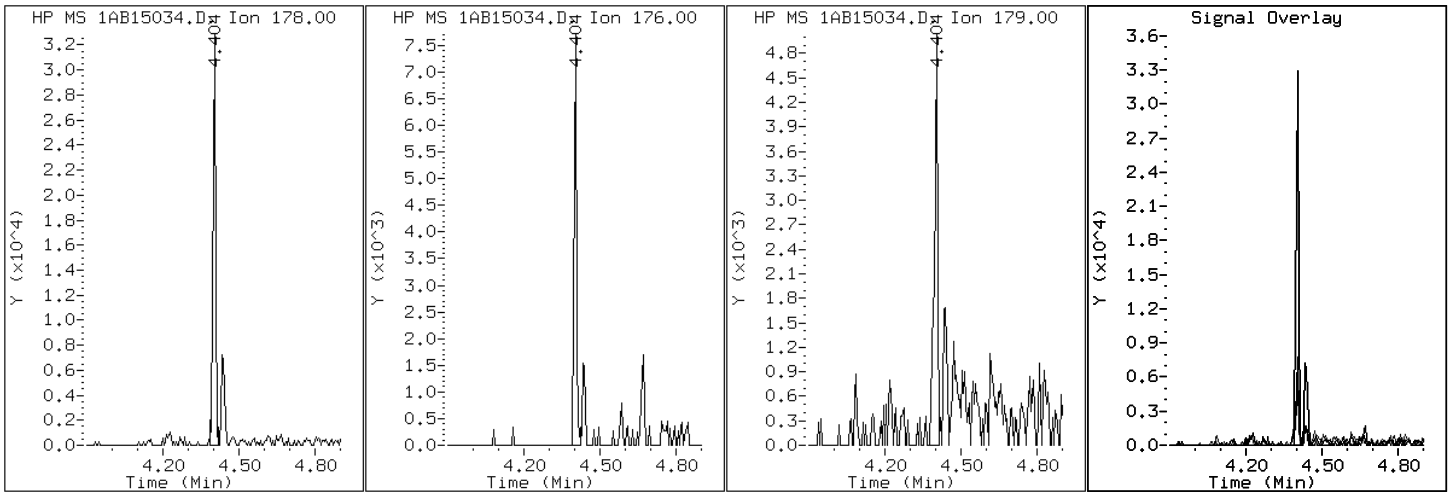
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

11 Phenanthrene



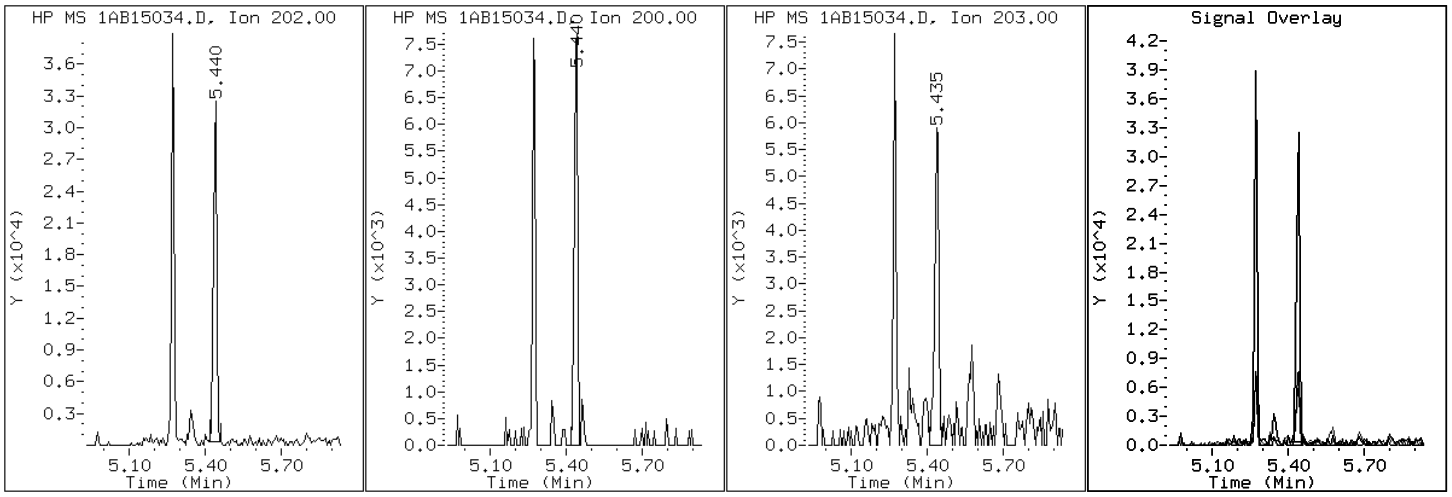
Data File: 1AB15034.D

Date: 15-FEB-2013 22:25

Client ID: CV0005R-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-25-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15034.D
Inj. Date and Time: 15-FEB-2013 22:25
Instrument ID: BSMA5973.i
Client ID: CV0005R-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

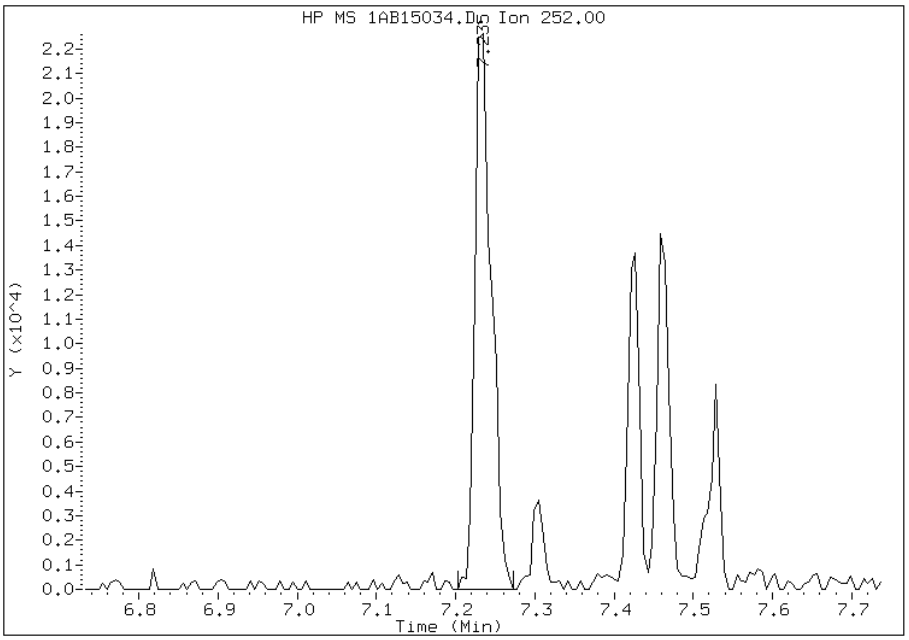
Processing Integration Results

RT: 7.23

Response: 32562

Amount: 1

Conc: 530



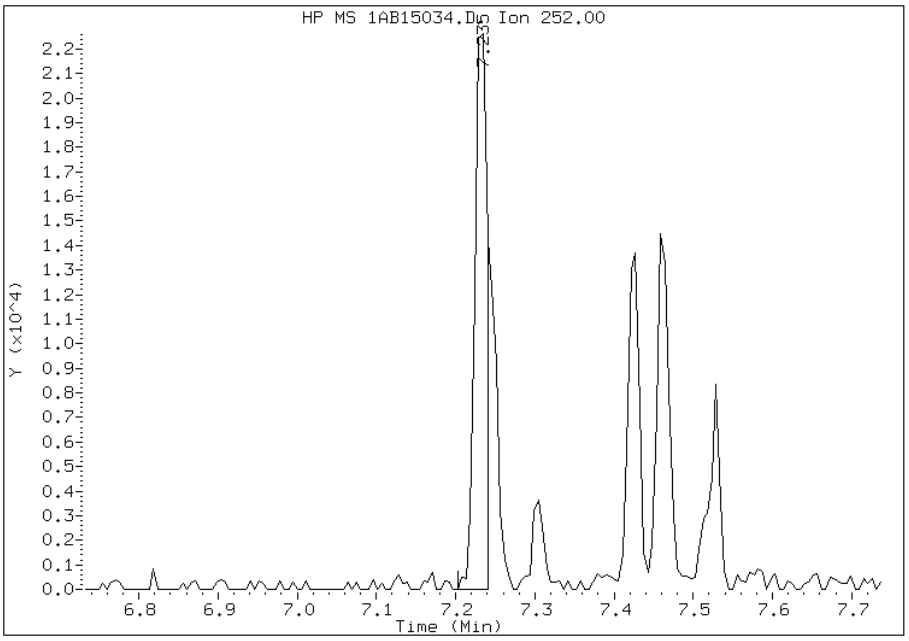
Manual Integration Results

RT: 7.23

Response: 24080

Amount: 1

Conc: 392



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

Manual Integration Report

Data File: 1AB15034.D
Inj. Date and Time: 15-FEB-2013 22:25
Instrument ID: BSMA5973.i
Client ID: CV0005R-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

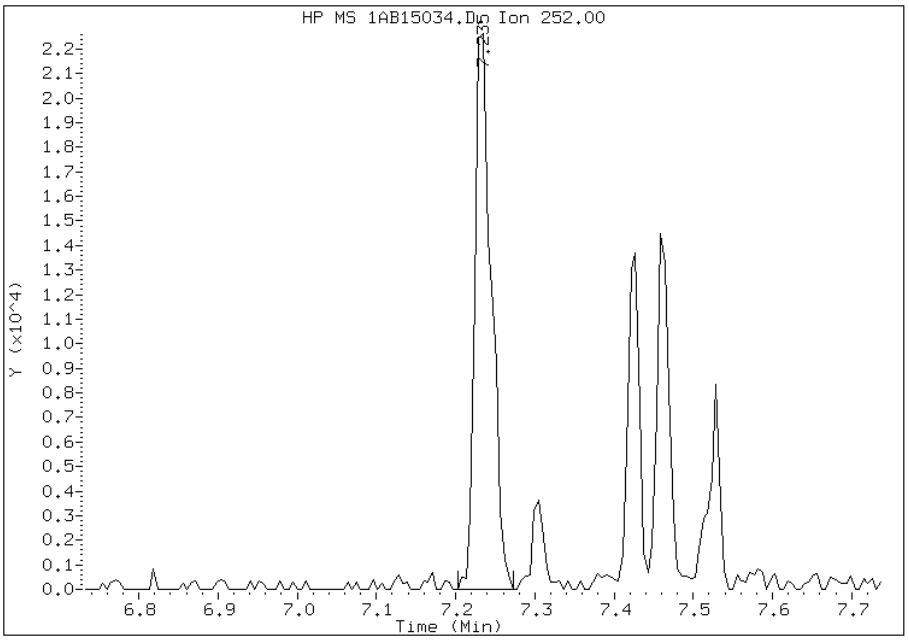
Processing Integration Results

RT: 7.23

Response: 32562

Amount: 1

Conc: 507



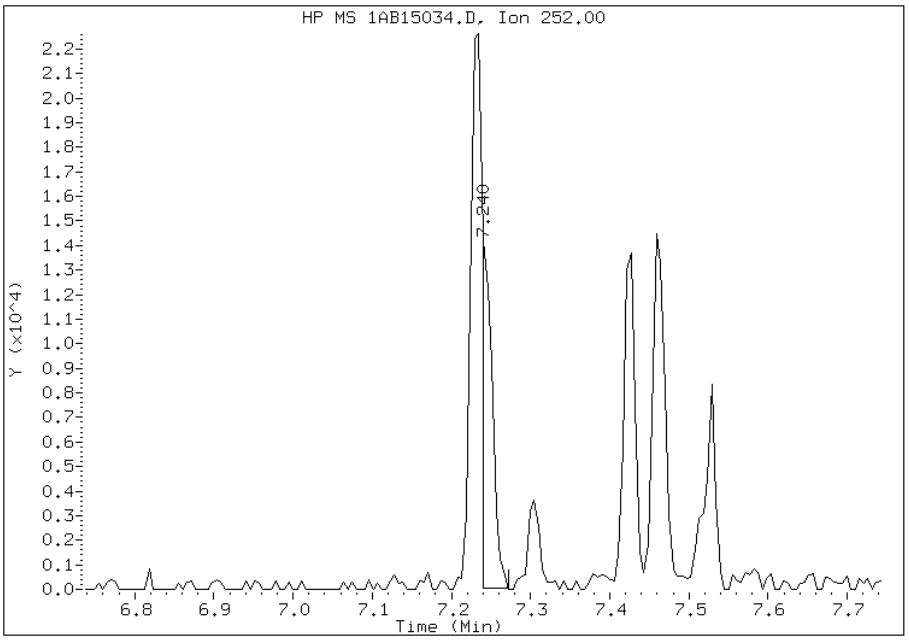
Manual Integration Results

RT: 7.24

Response: 12944

Amount: 1

Conc: 201



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

Manual Integration Report

Data File: 1AB15034.D
Inj. Date and Time: 15-FEB-2013 22:25
Instrument ID: BSMA5973.i
Client ID: CV0005R-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

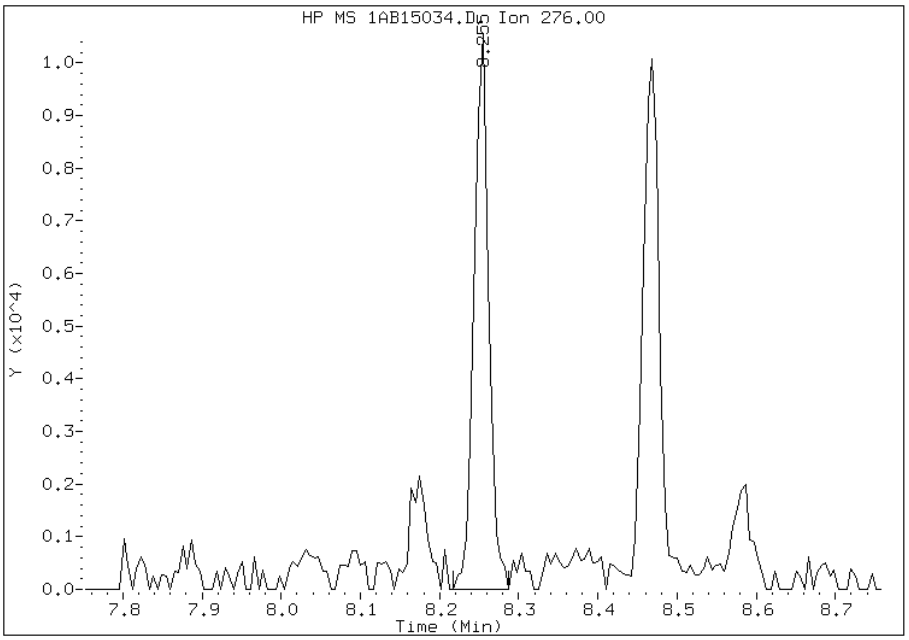
Processing Integration Results

RT: 8.26

Response: 13399

Amount: 1

Conc: 291



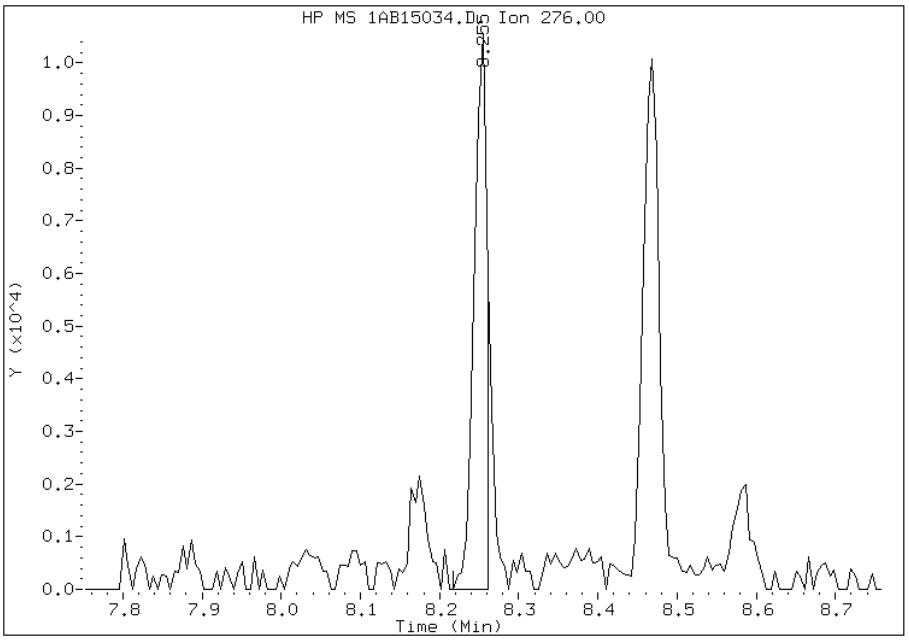
Manual Integration Results

RT: 8.26

Response: 11606

Amount: 1

Conc: 252



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005R-CSD | Lab Sample ID: 680-87318-26

Matrix: Solid | Lab File ID: 1AB15035.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 14:13

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 14.97(g) | Date Analyzed: 02/15/2013 22:40

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

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

% Moisture: 24.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	84	J	210	26
120-12-7	Anthracene	110		44	22
56-55-3	Benzo[a]anthracene	390		42	21
50-32-8	Benzo[a]pyrene	250		55	27
205-99-2	Benzo[b]fluoranthene	430		64	32
191-24-2	Benzo[g,h,i]perylene	250		110	23
207-08-9	Benzo[k]fluoranthene	140		42	19
218-01-9	Chrysene	340		48	24
53-70-3	Dibenz(a,h)anthracene	77	J	110	22
206-44-0	Fluoranthene	590		110	21
86-73-7	Fluorene	29	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	230		110	37
90-12-0	1-Methylnaphthalene	150	J	210	23
91-57-6	2-Methylnaphthalene	200	J	210	37
91-20-3	Naphthalene	130	J	210	23
85-01-8	Phenanthrene	390		42	21
129-00-0	Pyrene	430		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15035.D
Lab Smp Id: 680-87318-A-26-A Client Smp ID: CV0005R-CSD
Inj Date : 15-FEB-2013 22:40
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-26-a
Misc Info : 680-87318-A-26-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 32
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.970	Weight Extracted
M	24.081	% 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	2.422	2.415	(1.000)	736416	40.0000	
* 6 Acenaphthene-d10	164	3.447	3.441	(1.000)	478044	40.0000	
* 10 Phenanthrene-d10	188	4.393	4.386	(1.000)	737147	40.0000	
$ 14 o-Terphenyl	230	4.671	4.664	(1.063)	21881	2.04283	718.9808
* 18 Chrysene-d12	240	6.417	6.411	(1.000)	658459	40.0000	
* 23 Perylene-d12	264	7.523	7.501	(1.000)	790699	40.0000	
2 Naphthalene	128	2.432	2.426	(1.004)	6638	0.37137	130.7037(Q)
3 2-Methylnaphthalene	141	2.833	2.832	(1.170)	5333	0.55693	196.0127
4 1-Methylnaphthalene	142	2.892	2.885	(1.194)	4607	0.42501	149.5844
5 Acenaphthylene	152	3.362	3.355	(0.975)	5032	0.23839	83.9029
9 Fluorene	166	3.773	3.772	(1.095)	1202	0.08367	29.4489
11 Phenanthrene	178	4.403	4.402	(1.002)	22263	1.10611	389.3003
12 Anthracene	178	4.436	4.434	(1.010)	6439	0.31378	110.4350
13 Carbazole	167	4.596	4.589	(1.046)	3957	0.22495	79.1731

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.269	5.262	(1.199)	33170	1.66224	585.0335
16 Pyrene	202	5.440	5.433	(0.848)	29026	1.22059	429.5926
17 Benzo(a)anthracene	228	6.412	6.395	(0.999)	21646	1.10098	387.4937
19 Chrysene	228	6.434	6.427	(1.002)	18749	0.97836	344.3375
20 Benzo(b)fluoranthene	252	7.235	7.217	(0.962)	26845	1.21643	428.1288(M)
21 Benzo(k)fluoranthene	252	7.246	7.239	(0.963)	9421	0.40830	143.7044(QMH)
22 Benzo(a)pyrene	252	7.465	7.452	(0.992)	14809	0.70665	248.7078
24 Indeno(1,2,3-cd)pyrene	276	8.255	8.238	(1.097)	10681	0.64546	227.1708(M)
25 Dibenzo(a,h)anthracene	278	8.266	8.254	(1.099)	3625	0.21912	77.1213
26 Benzo(g,h,i)perylene	276	8.469	8.446	(1.126)	12342	0.71992	253.3772

QC Flag Legend

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

Data File: 1AB15035.D

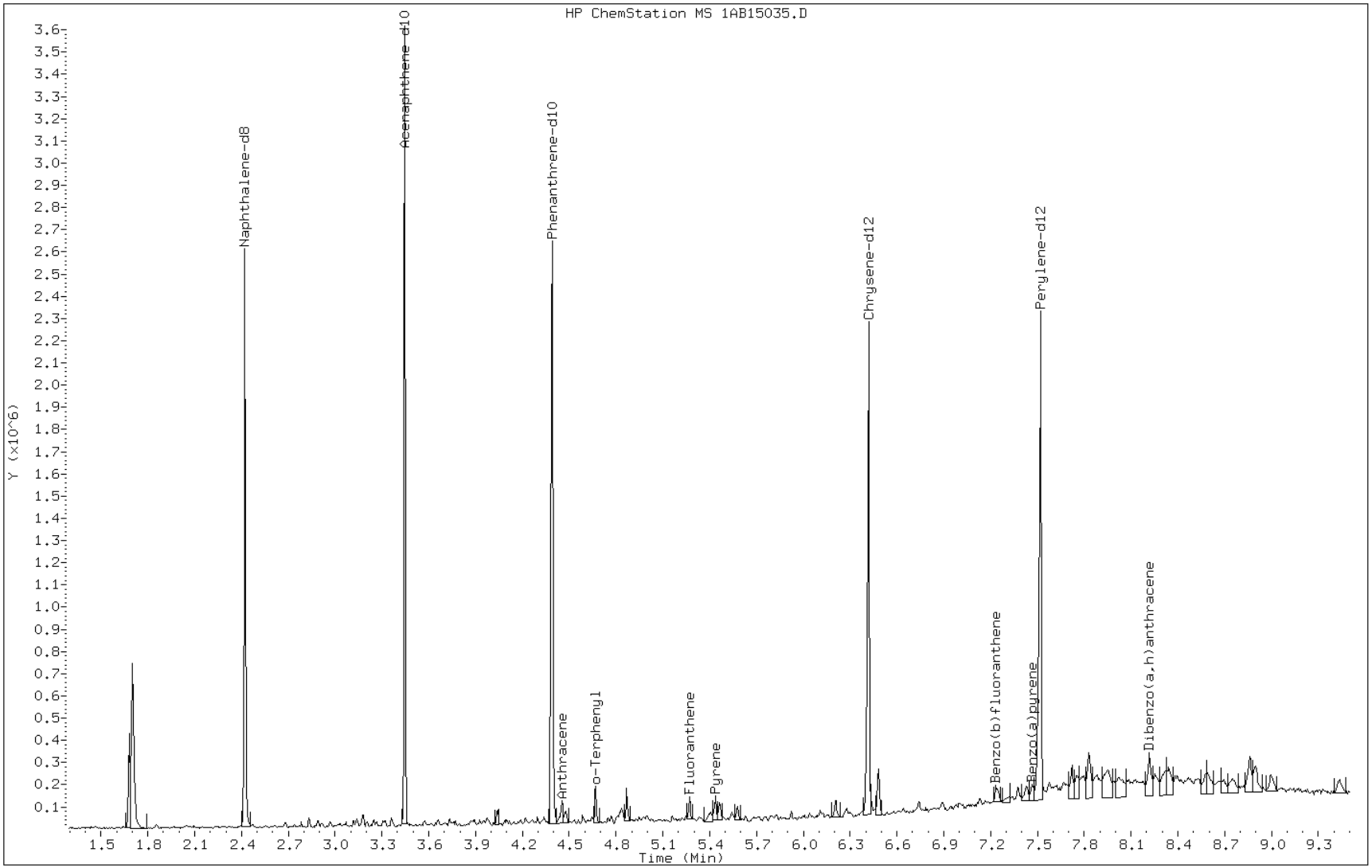
Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD

Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a

Operator: SCC



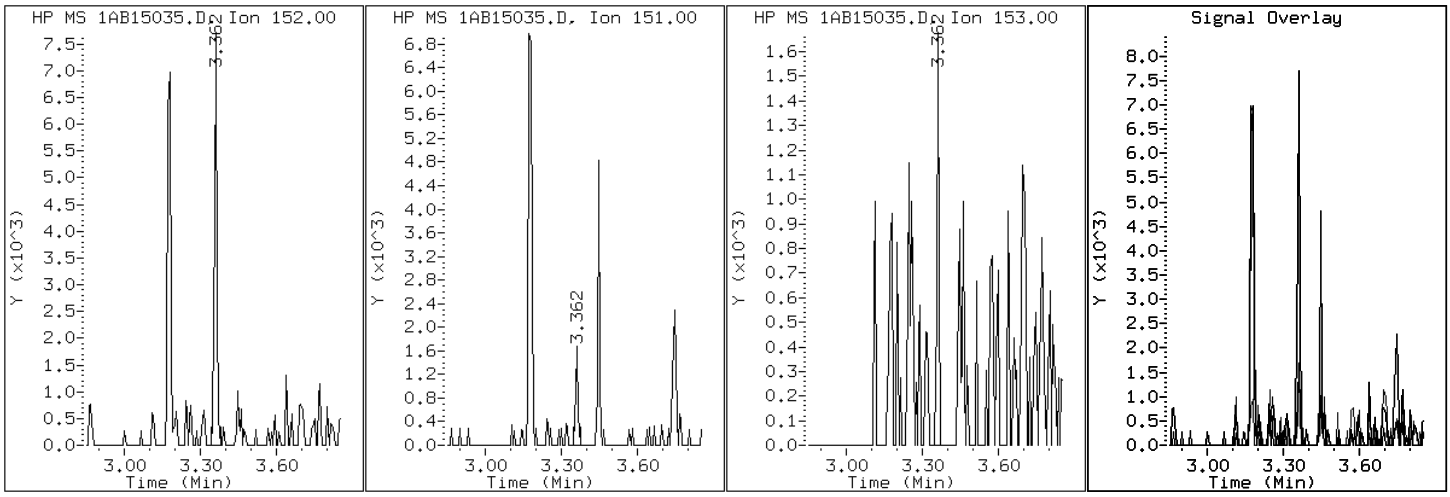
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

5 Acenaphthylene



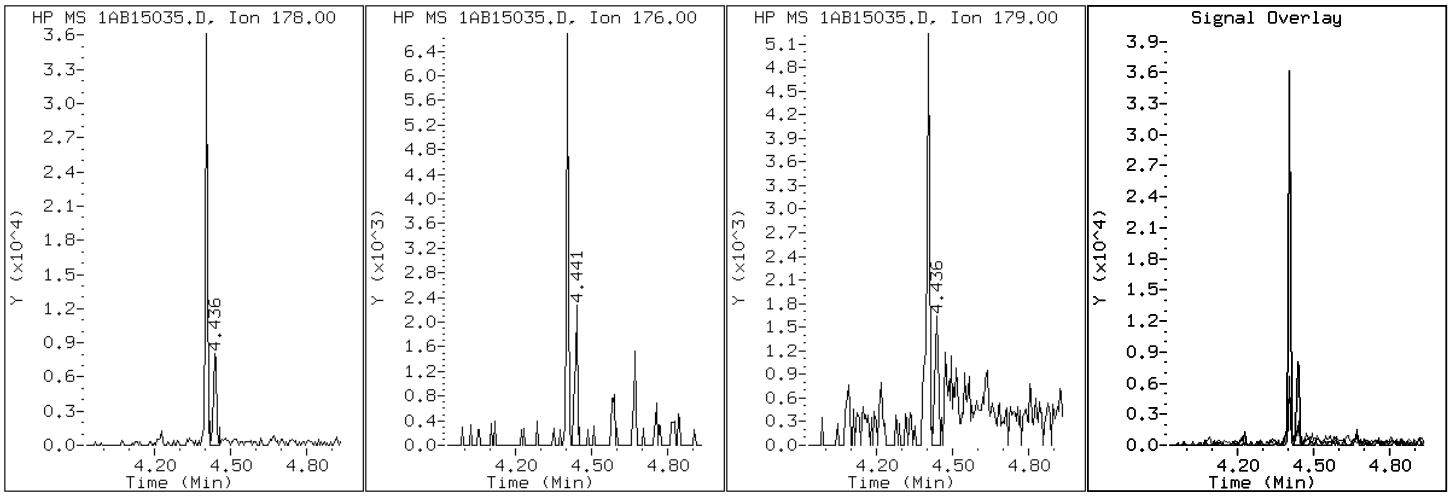
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

12 Anthracene



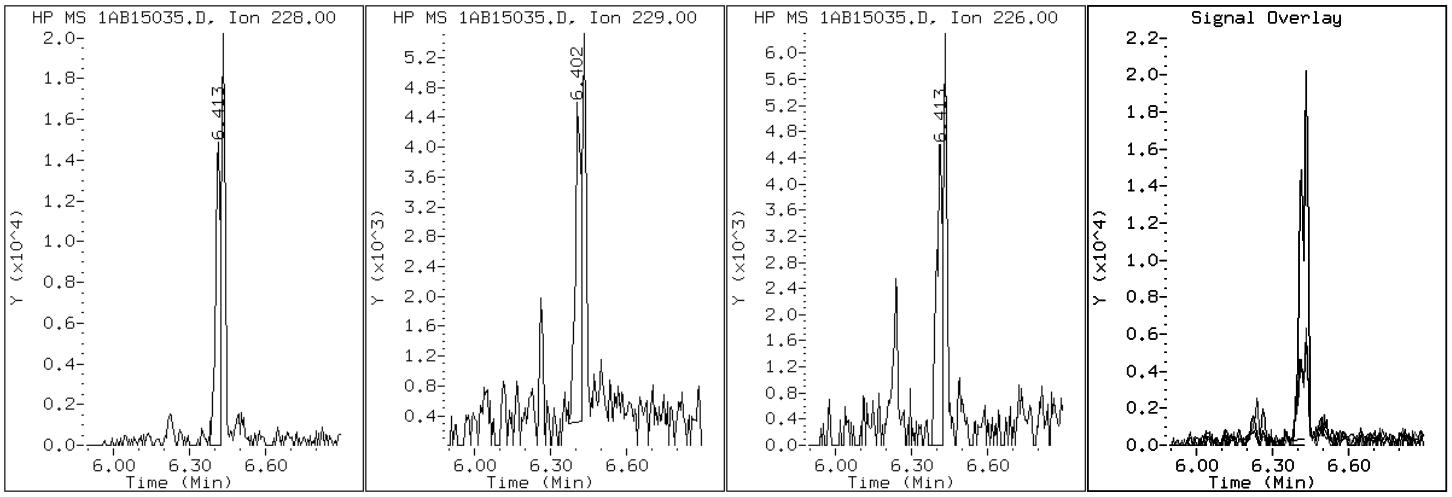
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

17 Benzo(a)anthracene



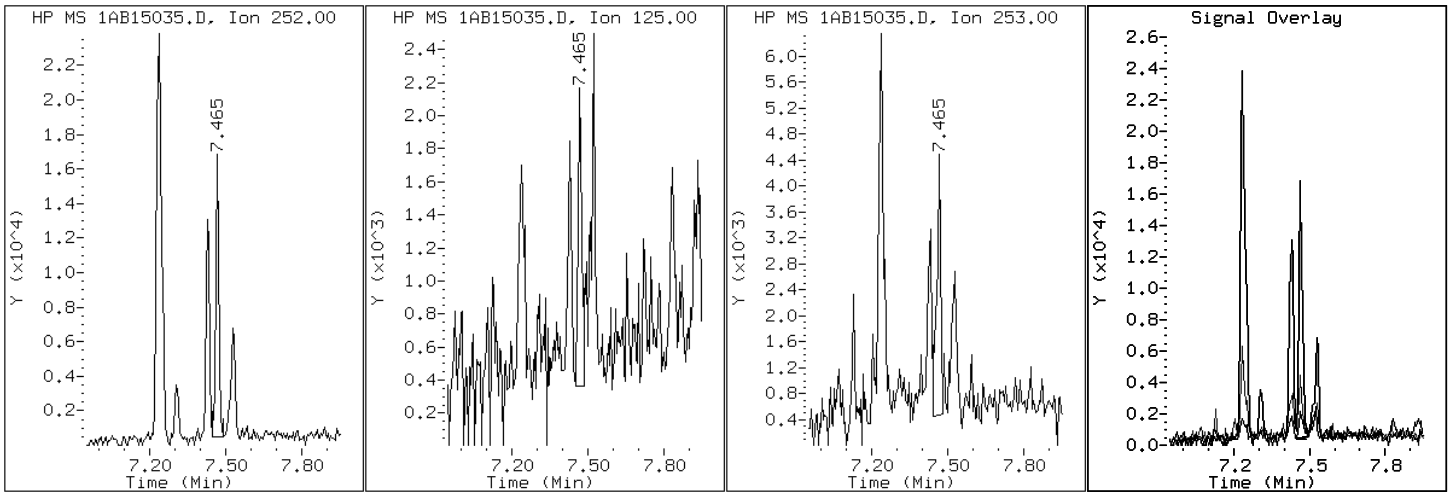
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

22 Benzo(a)pyrene



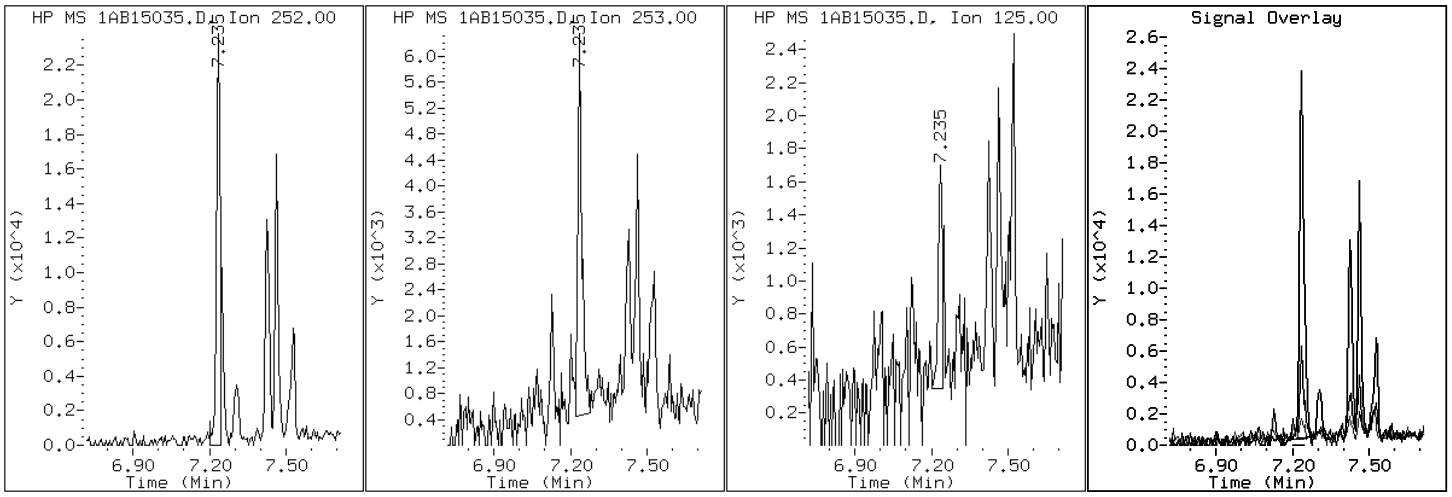
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

20 Benzo(b)fluoranthene



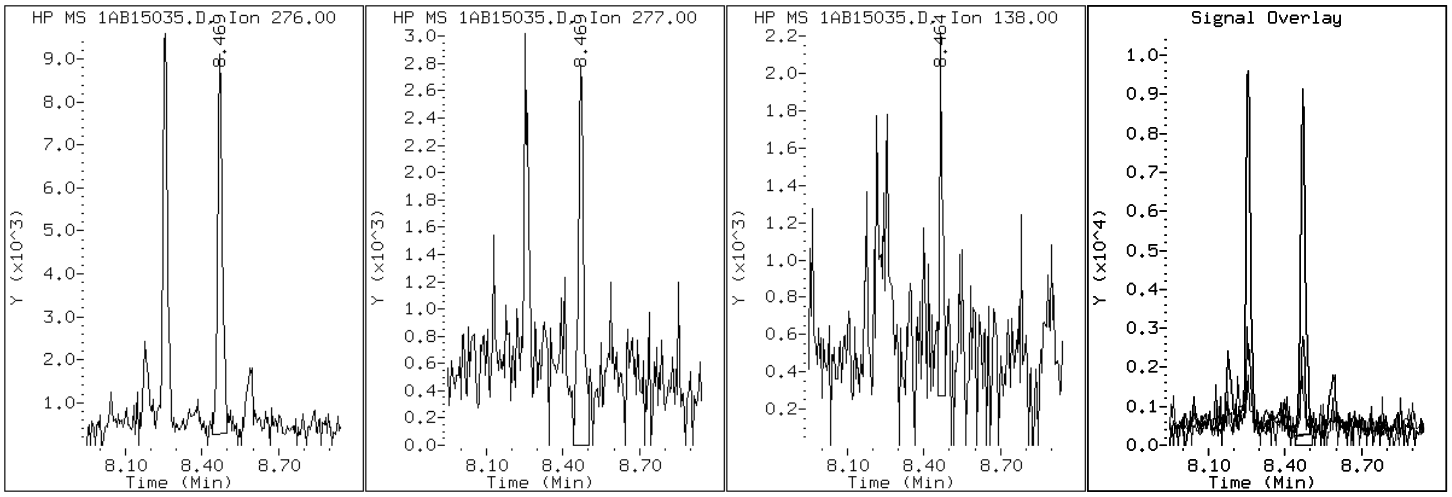
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

26 Benzo(g,h,i)perylene



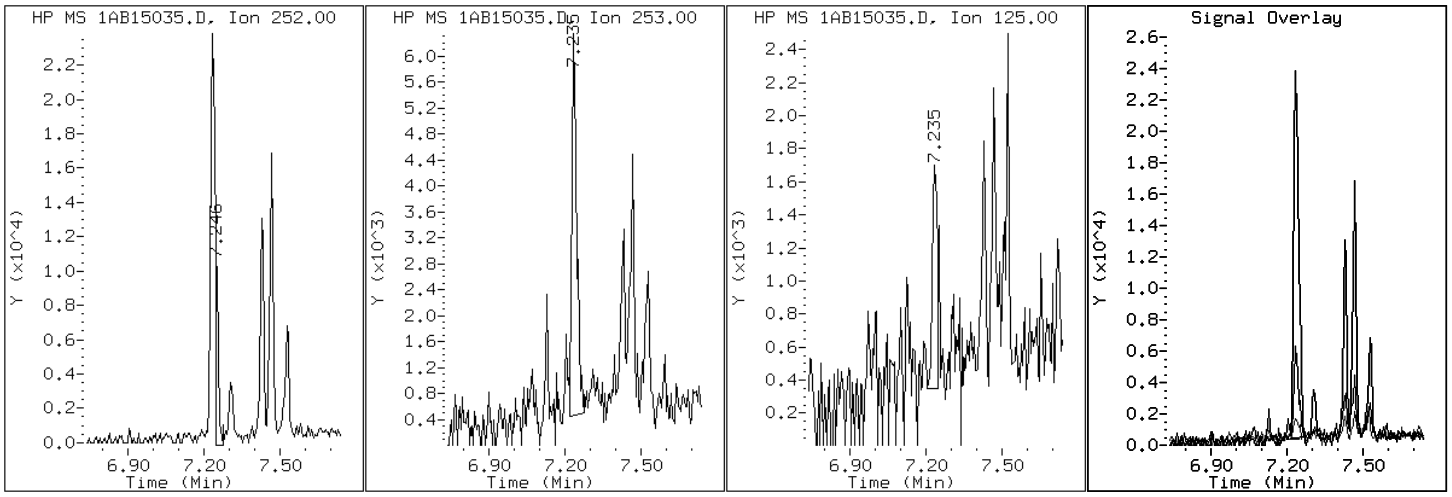
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

21 Benzo(k)fluoranthene



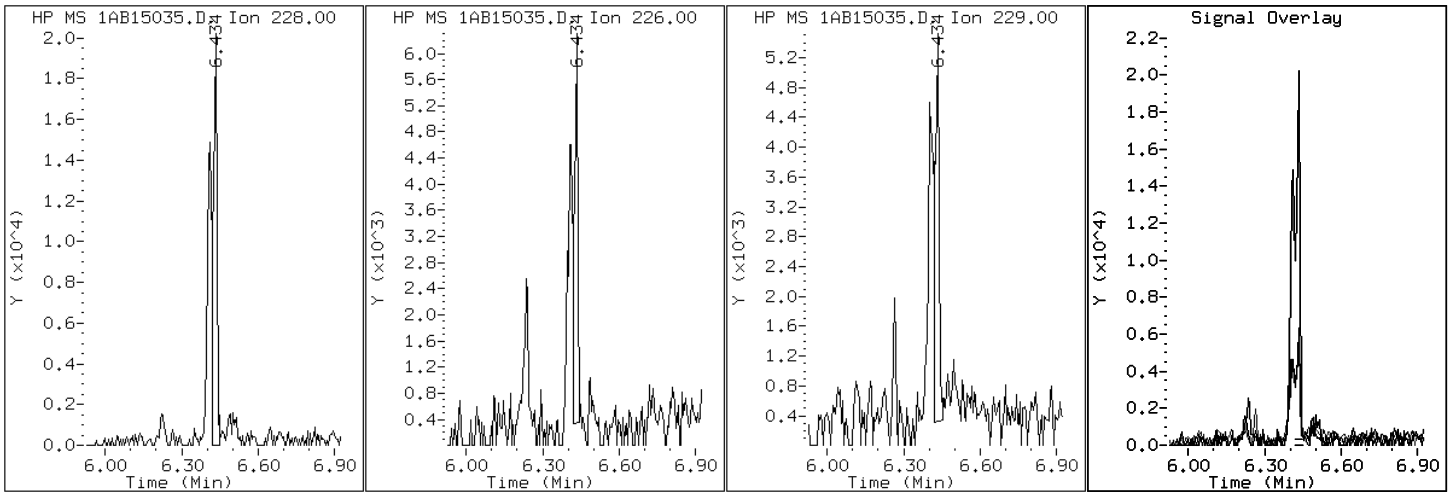
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

19 Chrysene



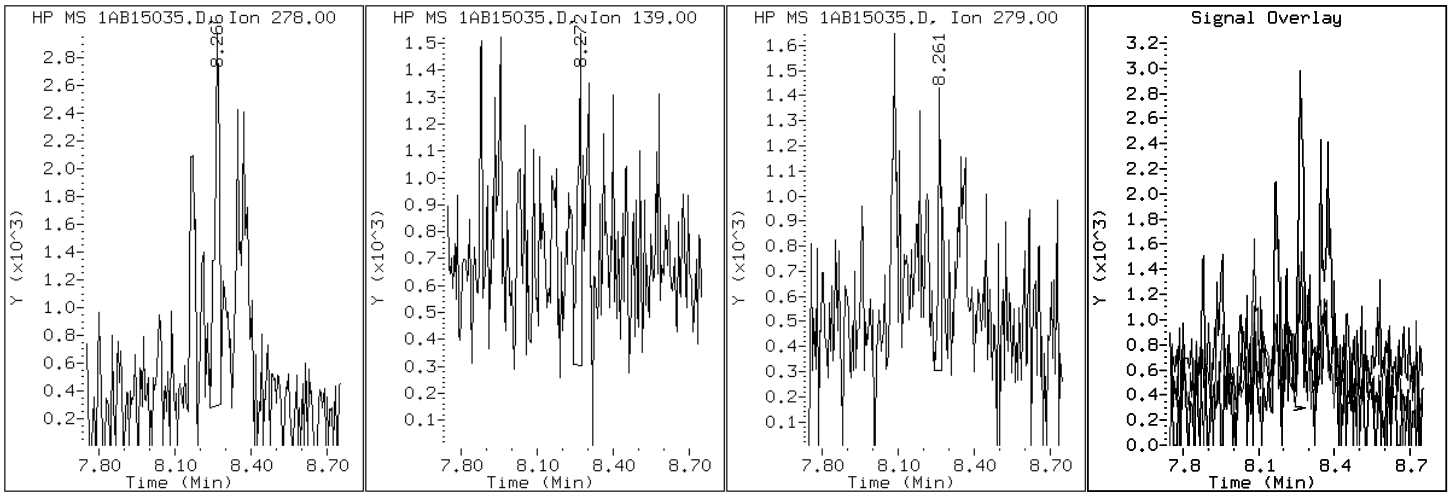
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

25 Dibenzo(a,h)anthracene



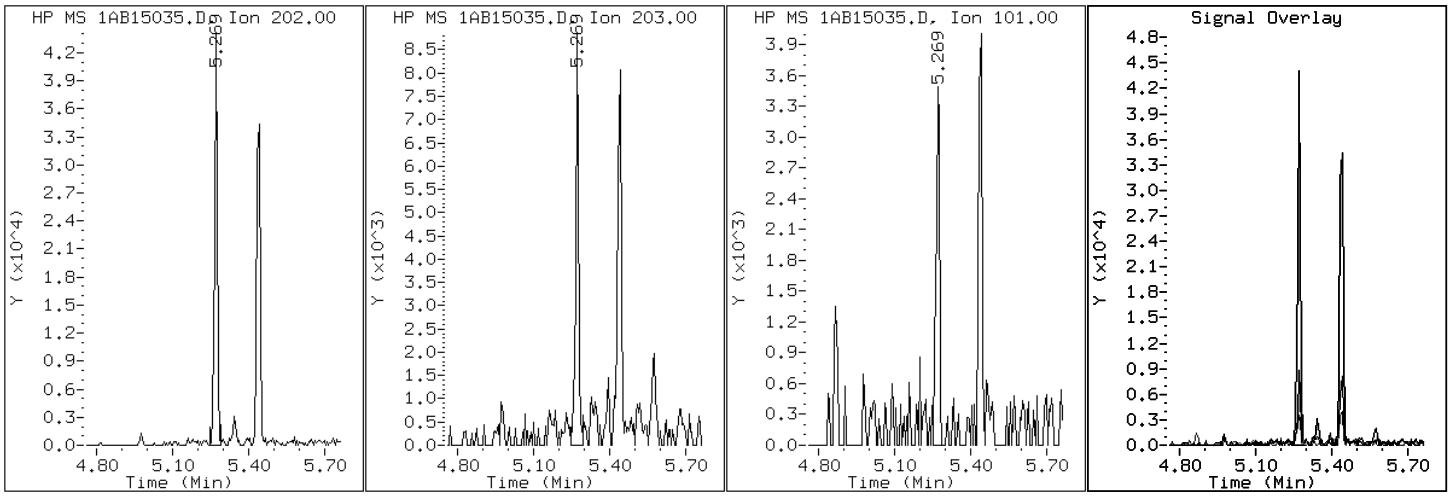
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

15 Fluoranthene



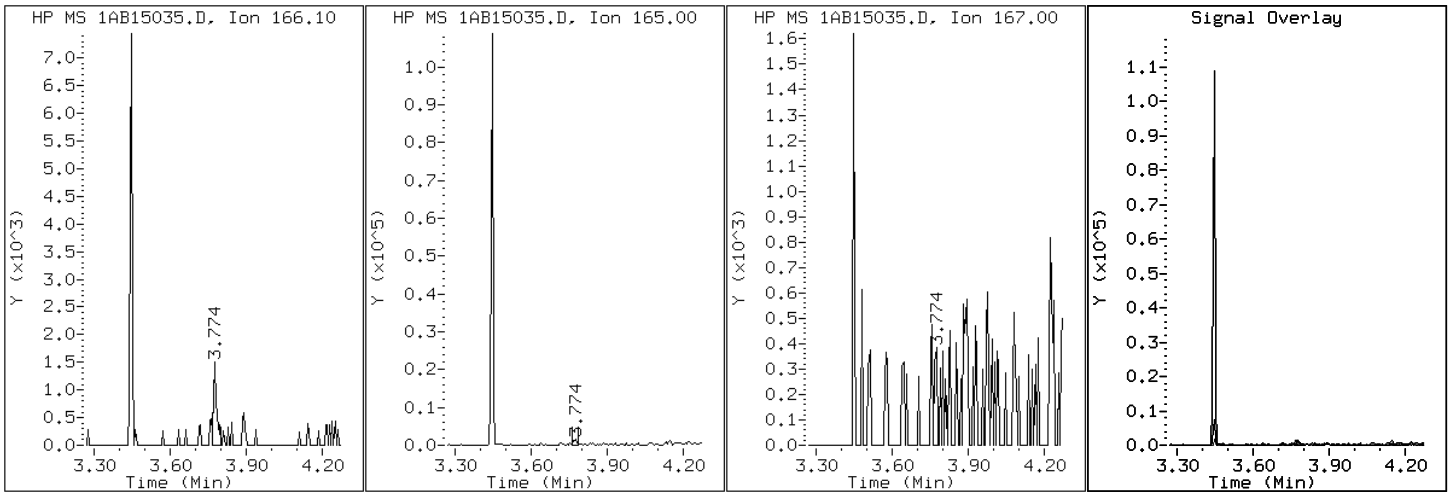
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

9 Fluorene



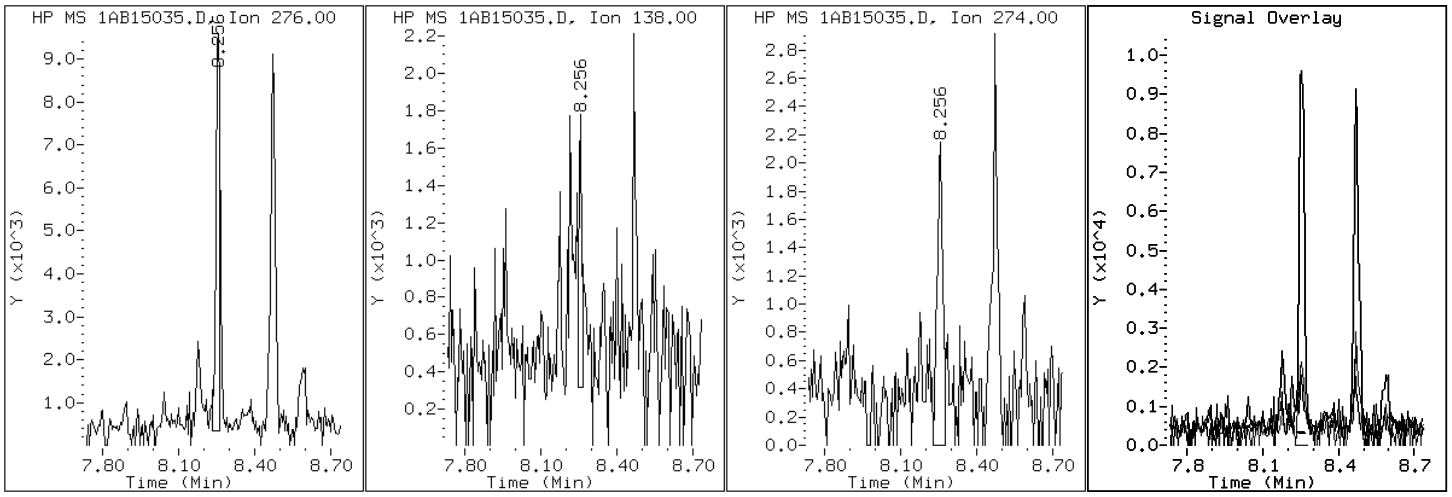
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

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



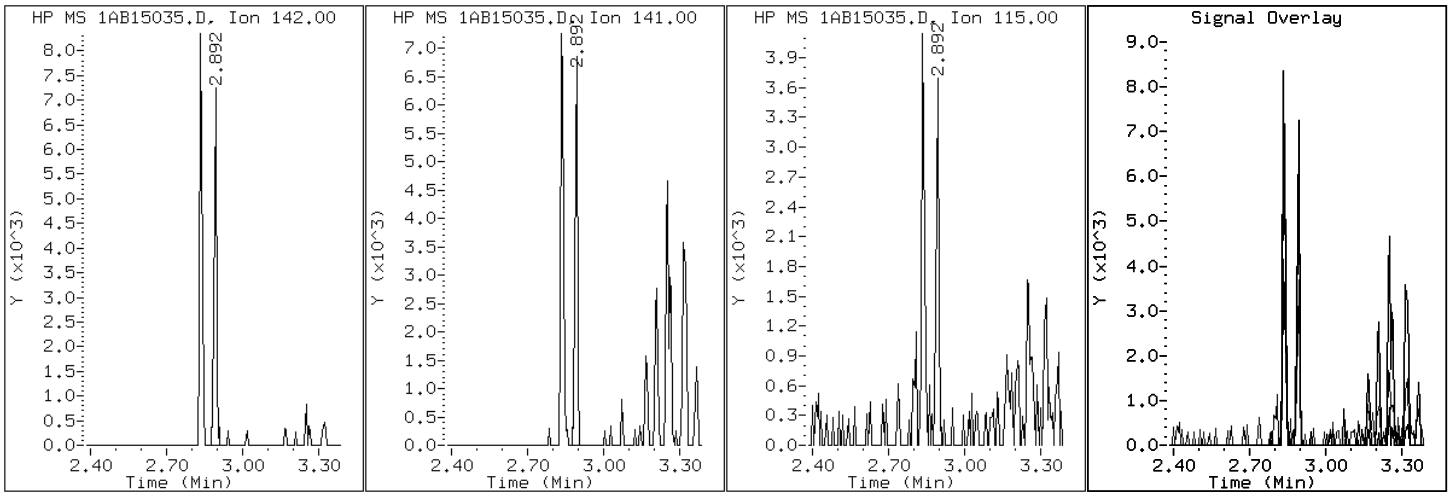
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

4 1-Methylnaphthalene



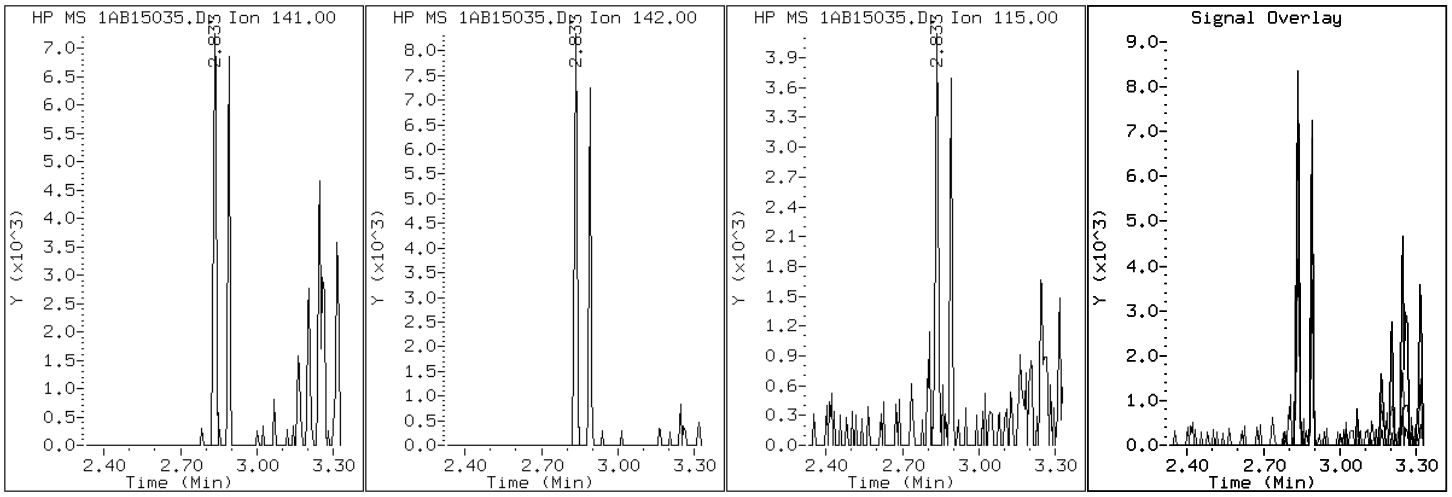
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

3 2-Methylnaphthalene



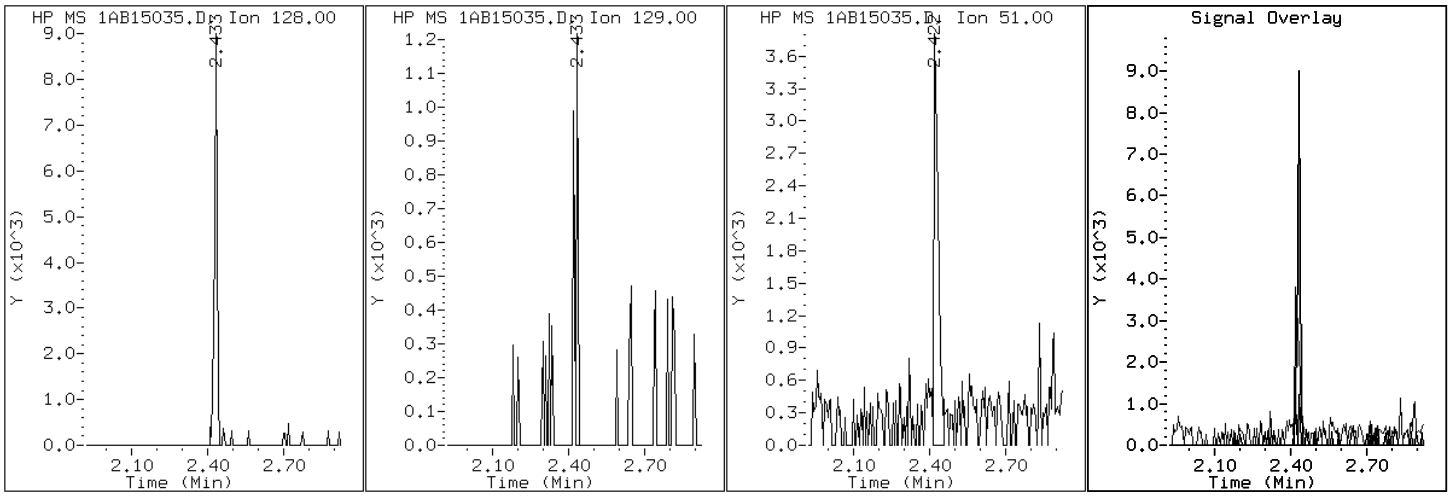
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

2 Naphthalene



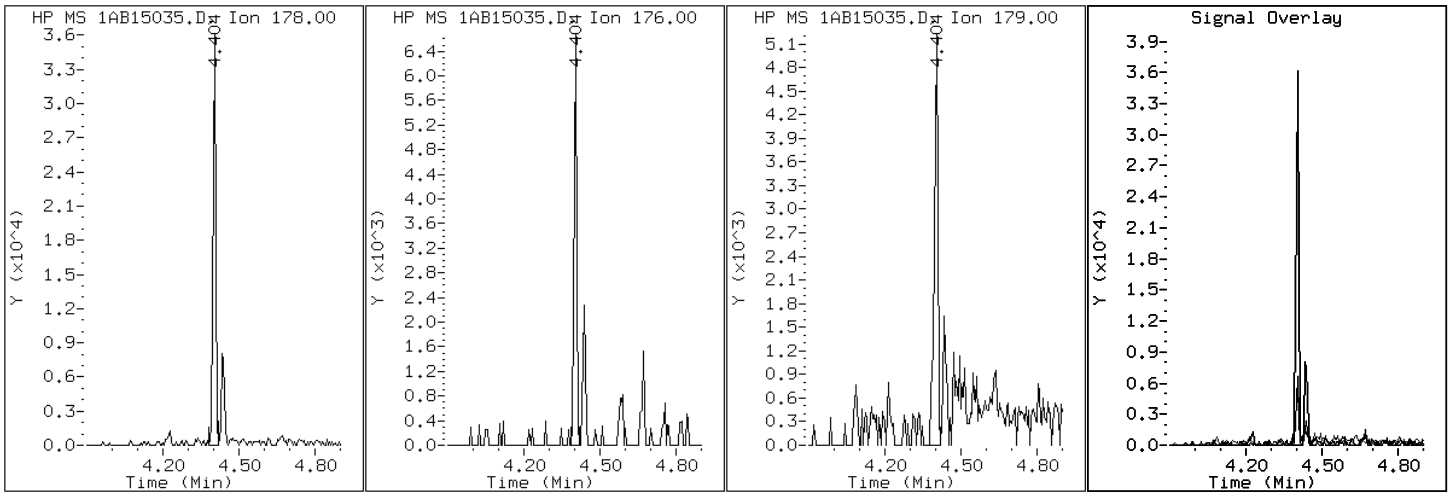
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

11 Phenanthrene



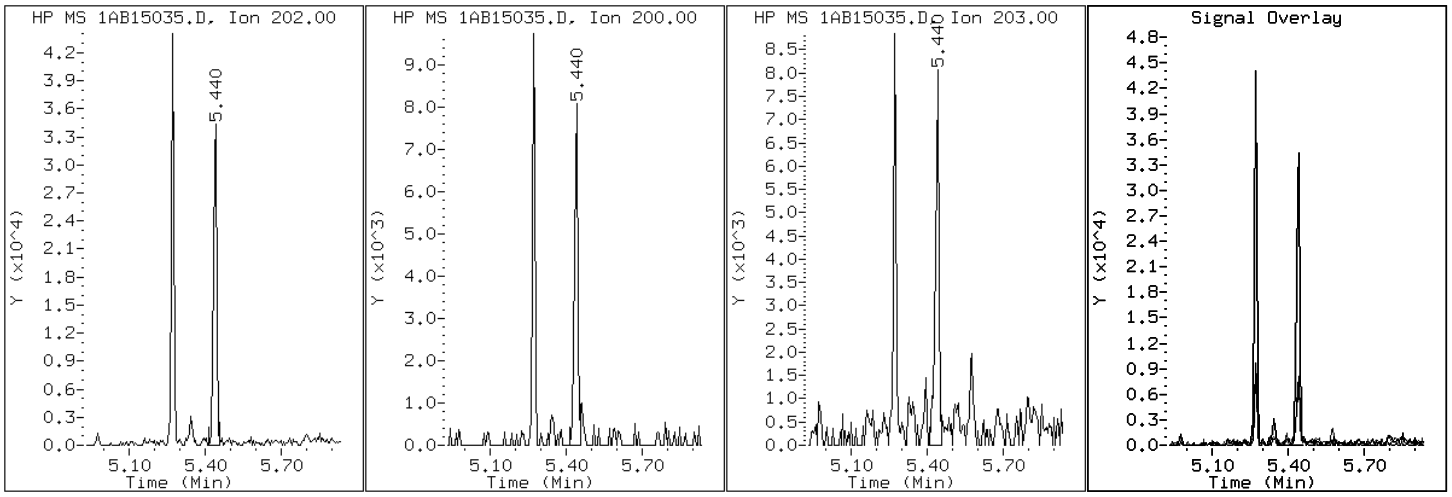
Data File: 1AB15035.D

Date: 15-FEB-2013 22:40

Client ID: CV0005R-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-26-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15035.D
Inj. Date and Time: 15-FEB-2013 22:40
Instrument ID: BSMA5973.i
Client ID: CV0005R-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

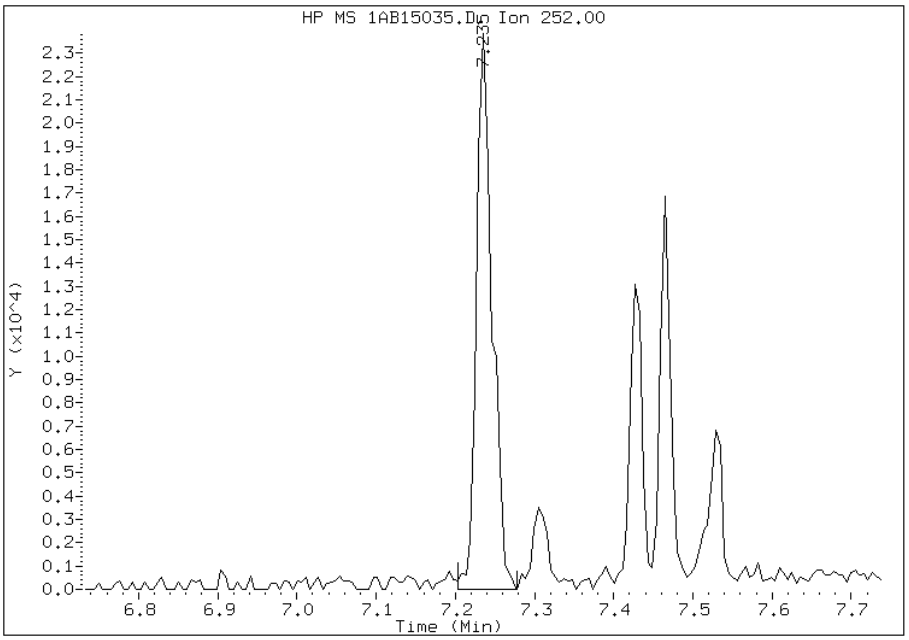
Processing Integration Results

RT: 7.24

Response: 32452

Amount: 1

Conc: 518



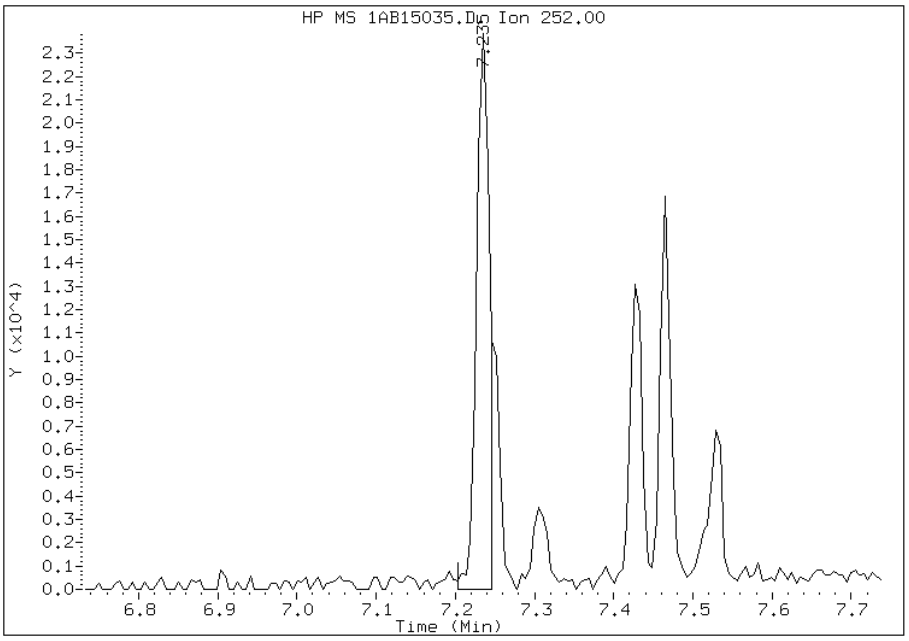
Manual Integration Results

RT: 7.24

Response: 26845

Amount: 1

Conc: 428



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:13
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15035.D
Inj. Date and Time: 15-FEB-2013 22:40
Instrument ID: BSMA5973.i
Client ID: CV0005R-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

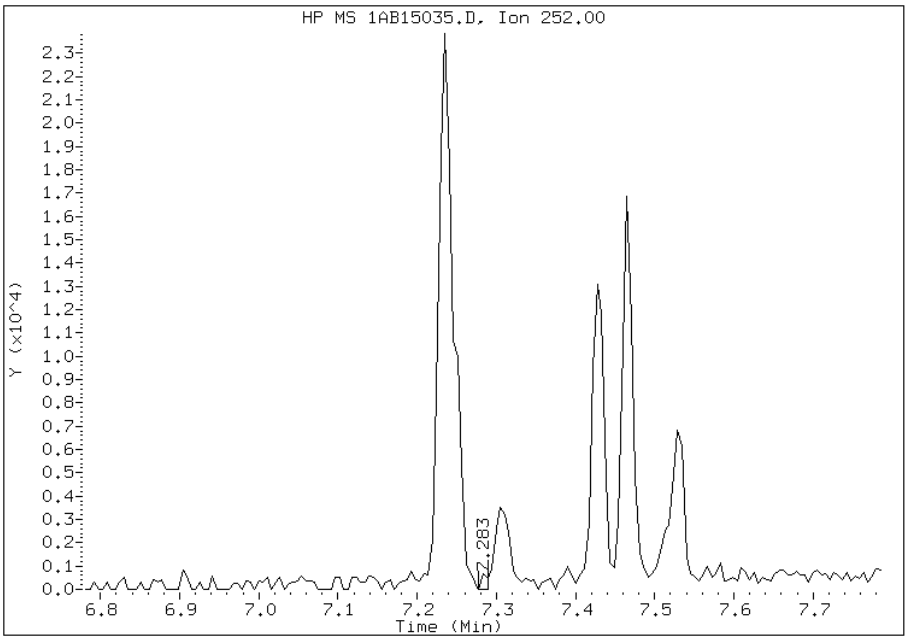
Processing Integration Results

RT: 7.28

Response: 371

Amount: 0

Conc: 6



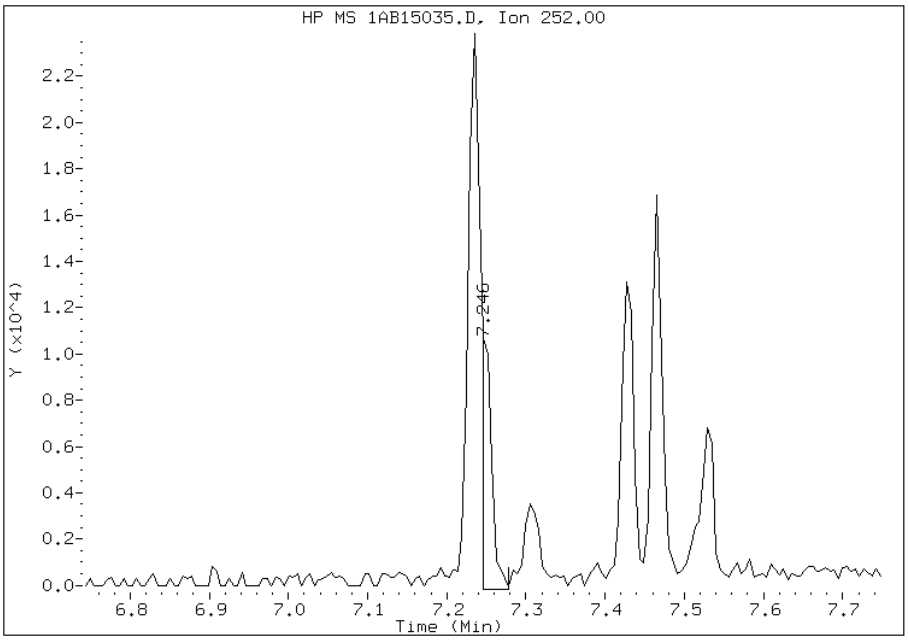
Manual Integration Results

RT: 7.25

Response: 9421

Amount: 0

Conc: 144



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:14
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15035.D
Inj. Date and Time: 15-FEB-2013 22:40
Instrument ID: BSMA5973.i
Client ID: CV0005R-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

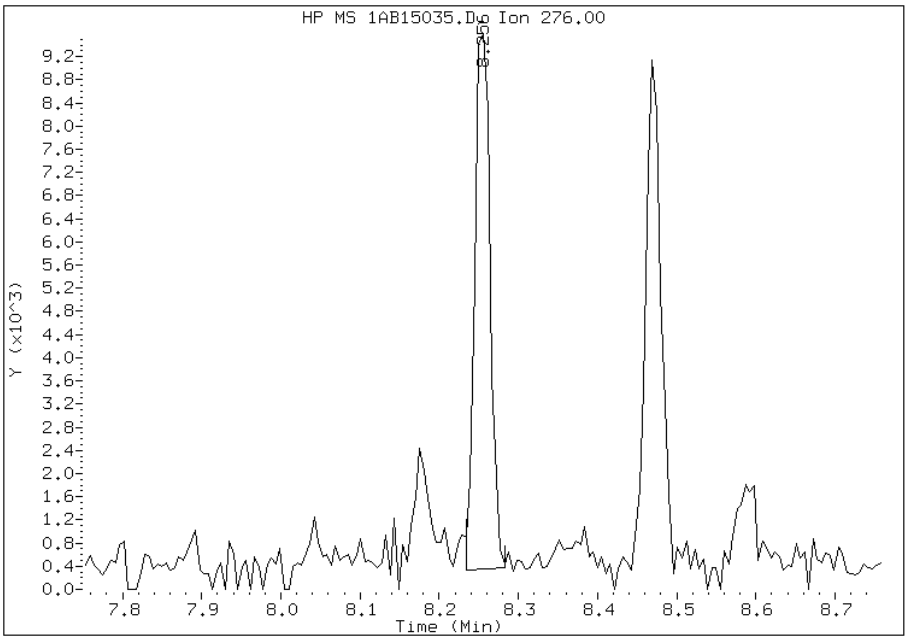
Processing Integration Results

RT: 8.26

Response: 12368

Amount: 1

Conc: 263



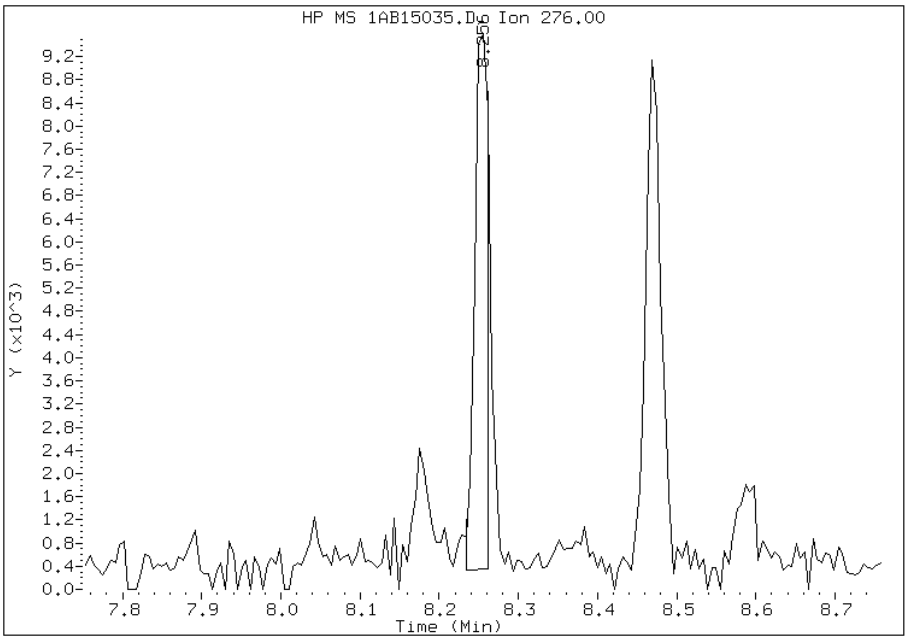
Manual Integration Results

RT: 8.26

Response: 10681

Amount: 1

Conc: 227



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:14
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005S-CS | Lab Sample ID: 680-87318-27

Matrix: Solid | Lab File ID: 1AB15036.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 14:10

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.41(g) | Date Analyzed: 02/15/2013 22:55

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

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

% Moisture: 27.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	180	J	210	27
120-12-7	Anthracene	280		45	23
56-55-3	Benzo[a]anthracene	970		43	21
50-32-8	Benzo[a]pyrene	630		56	28
205-99-2	Benzo[b]fluoranthene	950		66	33
191-24-2	Benzo[g,h,i]perylene	520		110	24
207-08-9	Benzo[k]fluoranthene	340		43	19
218-01-9	Chrysene	780		48	24
53-70-3	Dibenz(a,h)anthracene	190		110	22
206-44-0	Fluoranthene	1400		110	21
86-73-7	Fluorene	64	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	460		110	38
90-12-0	1-Methylnaphthalene	170	J	210	24
91-57-6	2-Methylnaphthalene	230		210	38
91-20-3	Naphthalene	160	J	210	24
85-01-8	Phenanthrene	830		43	21
129-00-0	Pyrene	1000		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	88		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15036.D
Lab Smp Id: 680-87318-A-27-A Client Smp ID: CV0005S-CS
Inj Date : 15-FEB-2013 22:55
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-27-a
Misc Info : 680-87318-A-27-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 33
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.410	Weight Extracted
M	27.502	% 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	2.423	2.415	(1.000)	723591	40.0000	
* 6 Acenaphthene-d10	164	3.448	3.441	(1.000)	505002	40.0000	
* 10 Phenanthrene-d10	188	4.394	4.386	(1.000)	758678	40.0000	
$ 14 o-Terphenyl	230	4.666	4.664	(1.062)	24259	2.20056	787.8918
* 18 Chrysene-d12	240	6.418	6.411	(1.000)	623185	40.0000	
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2 Naphthalene	128	2.433	2.426	(1.004)	7965	0.45350	162.3729
3 2-Methylnaphthalene	141	2.834	2.832	(1.170)	5949	0.63227	226.3776
4 1-Methylnaphthalene	142	2.893	2.885	(1.194)	5123	0.48099	172.2144
5 Acenaphthylene	152	3.363	3.355	(0.975)	11389	0.51075	182.8706
9 Fluorene	166	3.774	3.772	(1.094)	2725	0.17956	64.2915
11 Phenanthrene	178	4.405	4.402	(1.002)	47857	2.31024	827.1612
12 Anthracene	178	4.437	4.434	(1.010)	16662	0.78891	282.4614
13 Carbazole	167	4.597	4.589	(1.046)	6171	0.34086	122.0424

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.270	5.262	(1.199)	80287	3.90923	1399.6649
16 Pyrene	202	5.441	5.433	(0.848)	65032	2.88950	1034.5595
17 Benzo(a)anthracene	228	6.408	6.395	(0.998)	50331	2.70488	968.4590
19 Chrysene	228	6.435	6.427	(1.002)	39444	2.17477	778.6564
20 Benzo(b)fluoranthene	252	7.236	7.217	(0.962)	57025	2.64035	945.3517(M)
21 Benzo(k)fluoranthene	252	7.247	7.239	(0.963)	21628	0.95780	342.9309(QMH)
22 Benzo(a)pyrene	252	7.466	7.452	(0.992)	36313	1.77056	633.9323
24 Indeno(1,2,3-cd)pyrene	276	8.256	8.238	(1.097)	20886	1.28968	461.7565(M)
25 Dibenzo(a,h)anthracene	278	8.262	8.254	(1.098)	8717	0.53842	192.7750
26 Benzo(g,h,i)perylene	276	8.475	8.446	(1.126)	24480	1.45908	522.4088

QC Flag Legend

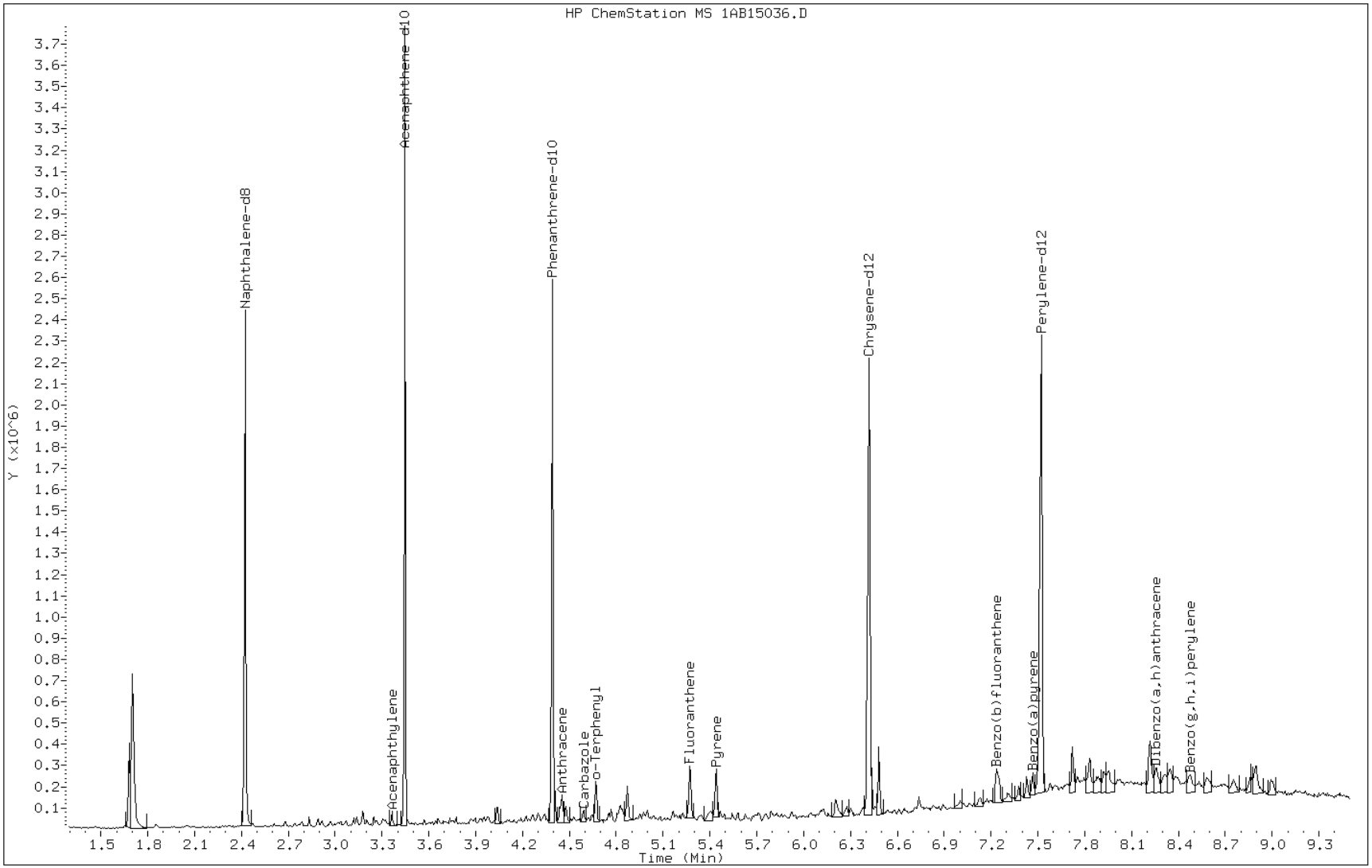
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS | Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a | Operator: SCC



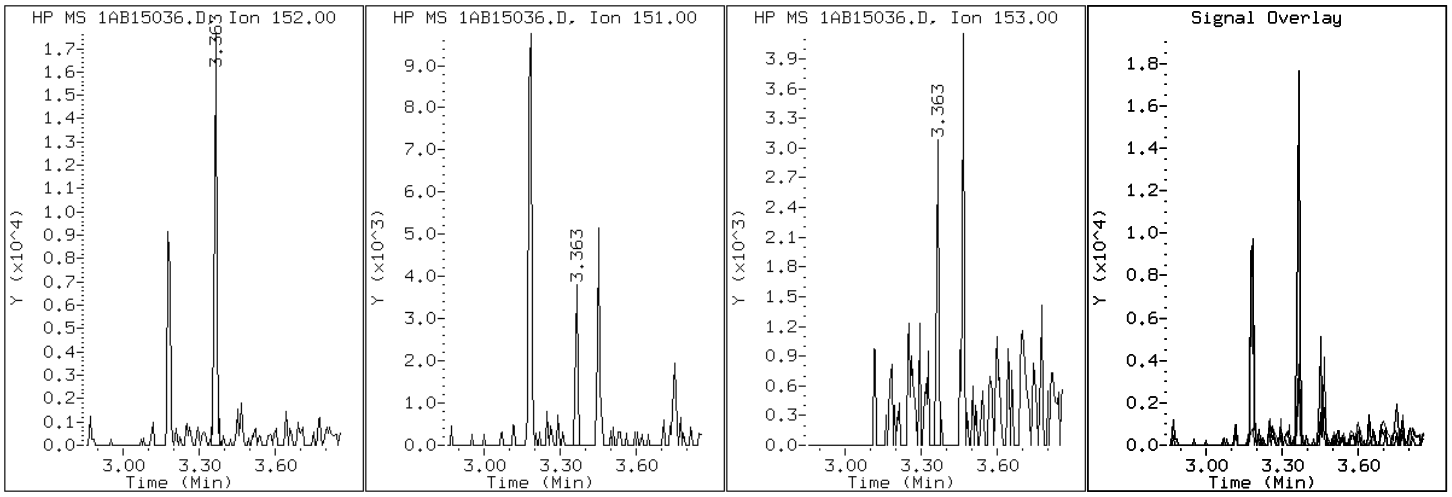
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

5 Acenaphthylene



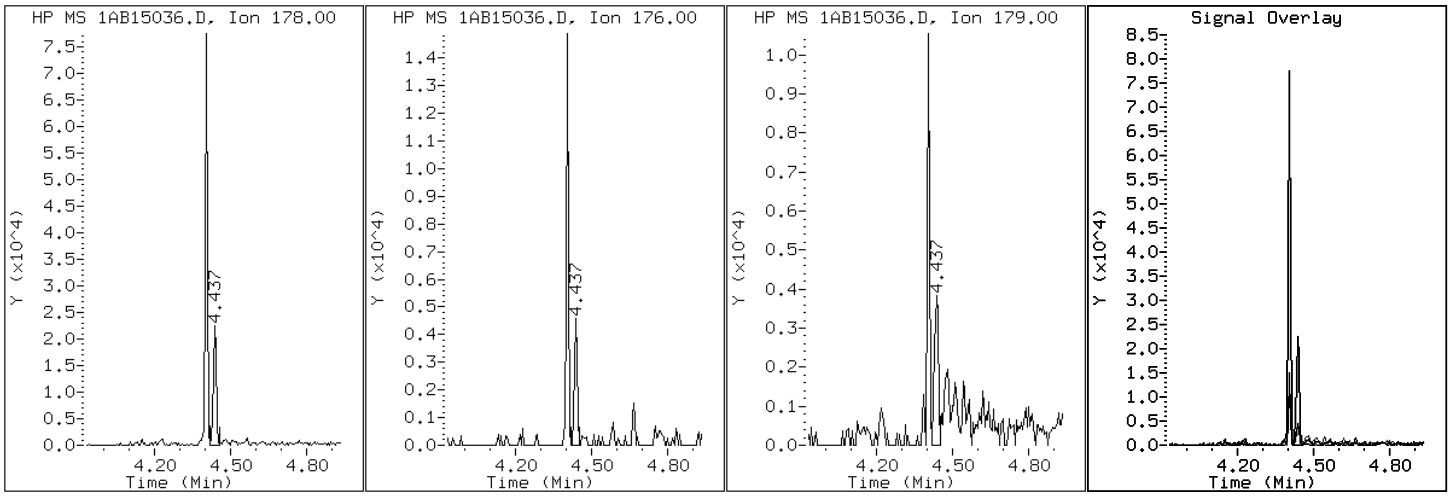
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

12 Anthracene



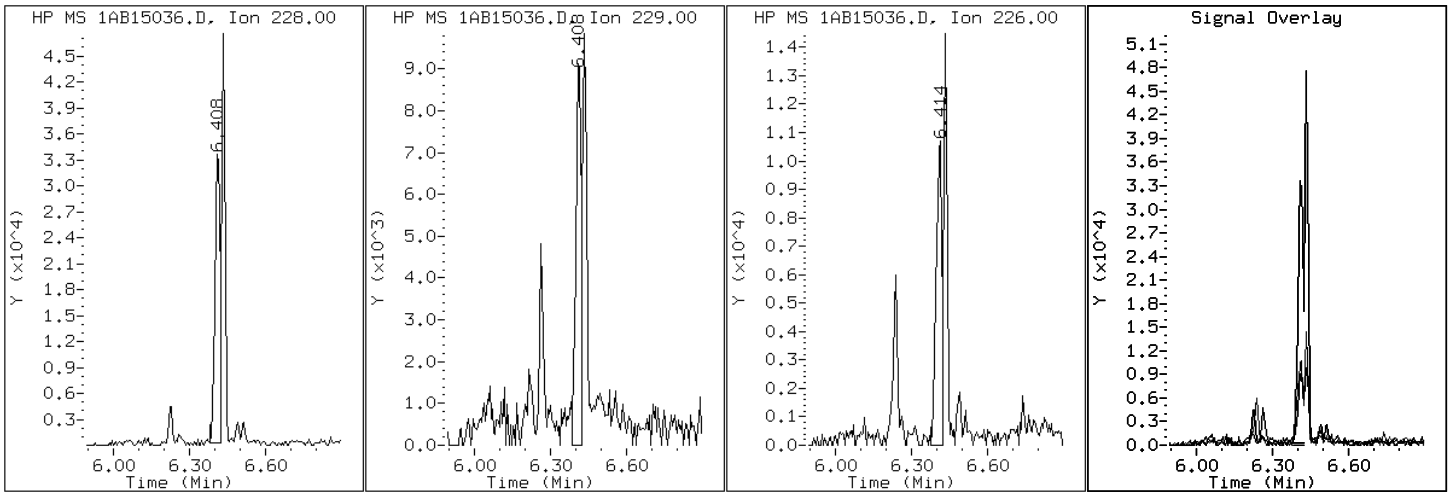
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

17 Benzo(a)anthracene



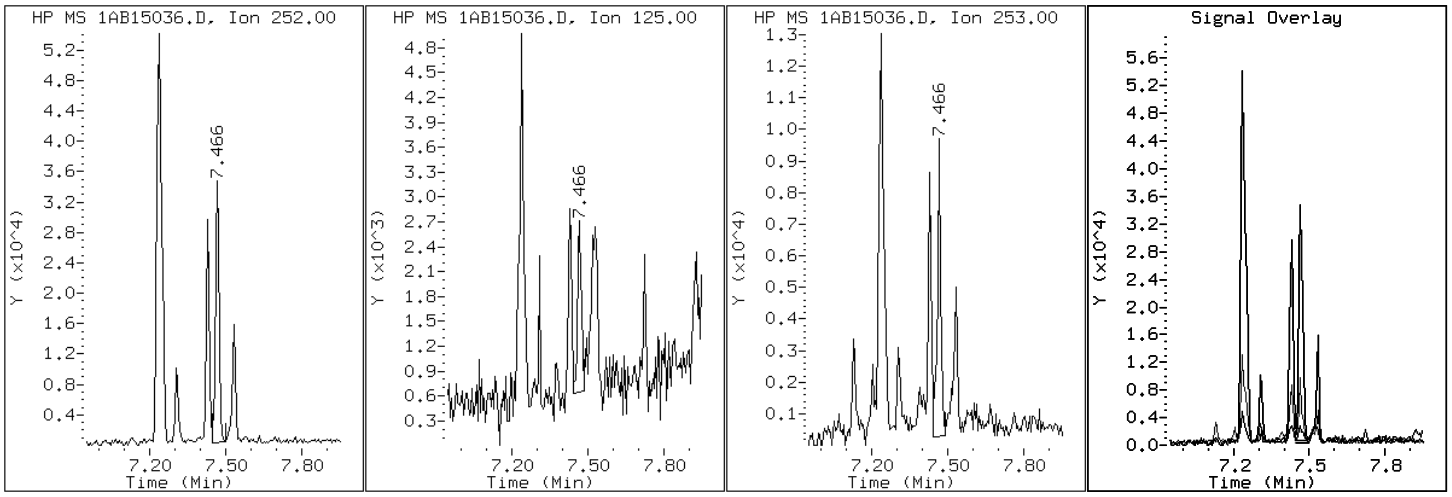
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

22 Benzo(a)pyrene



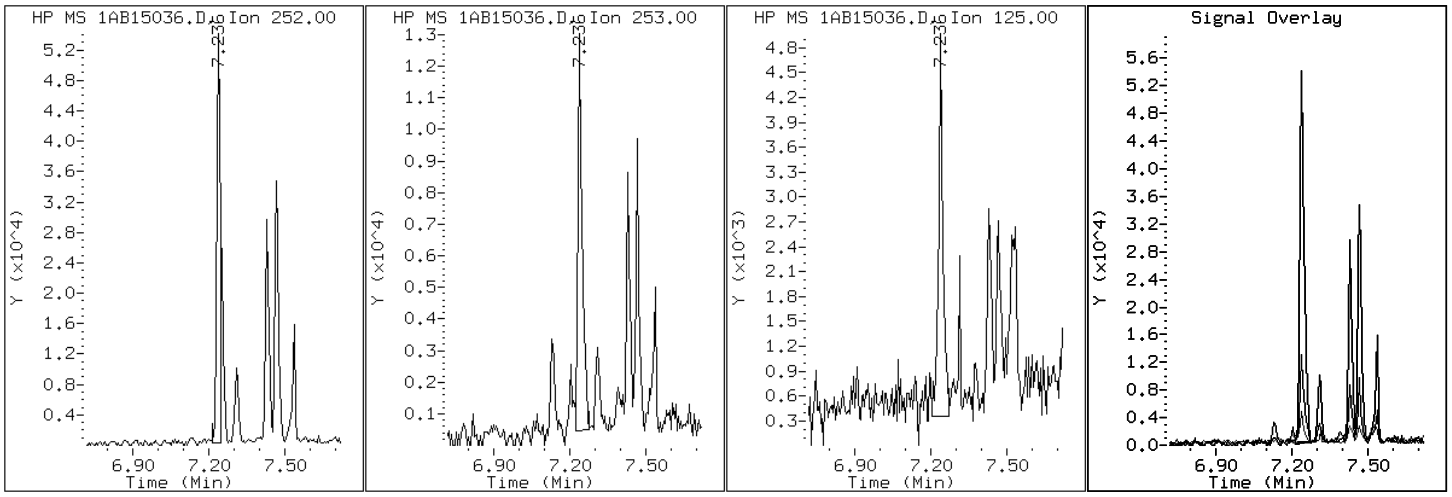
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

20 Benzo(b)fluoranthene



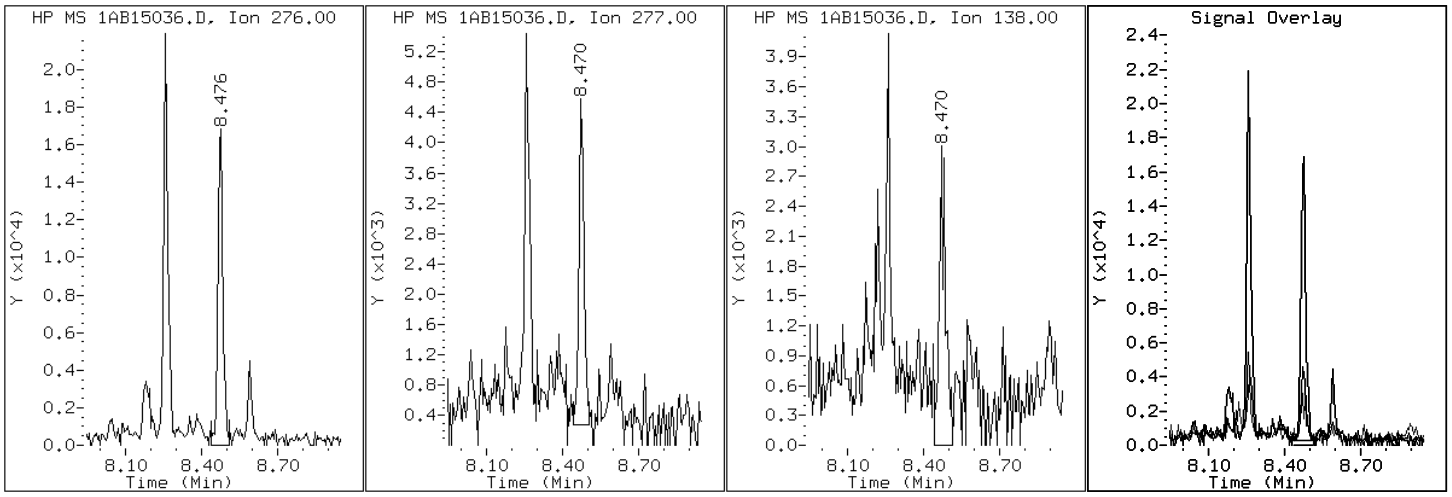
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

26 Benzo(g,h,i)perylene



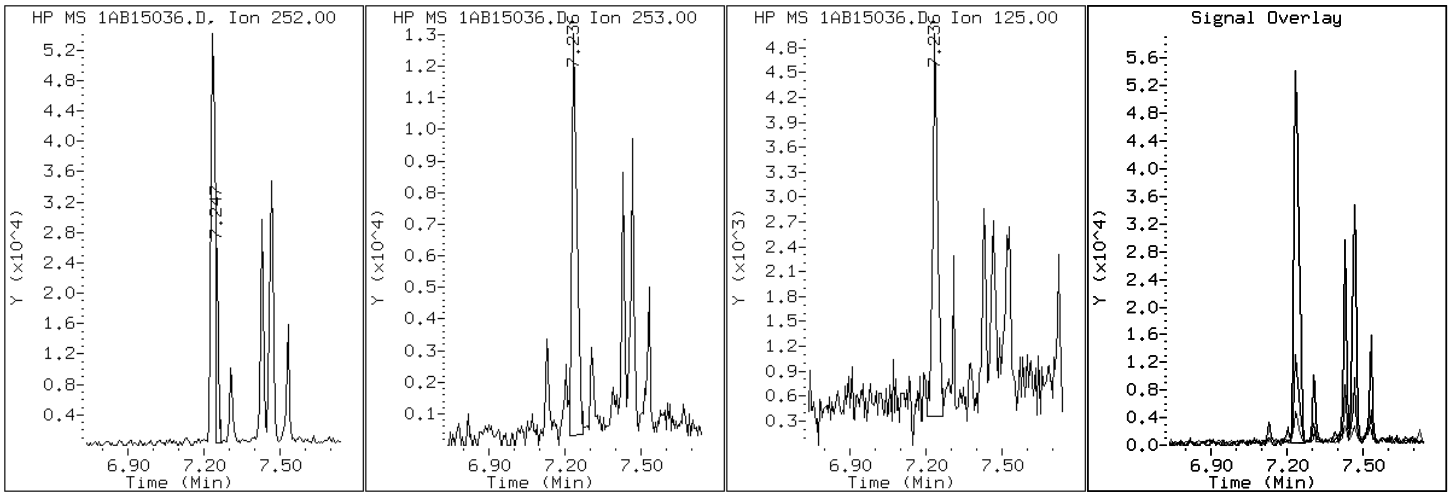
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

21 Benzo(k)fluoranthene



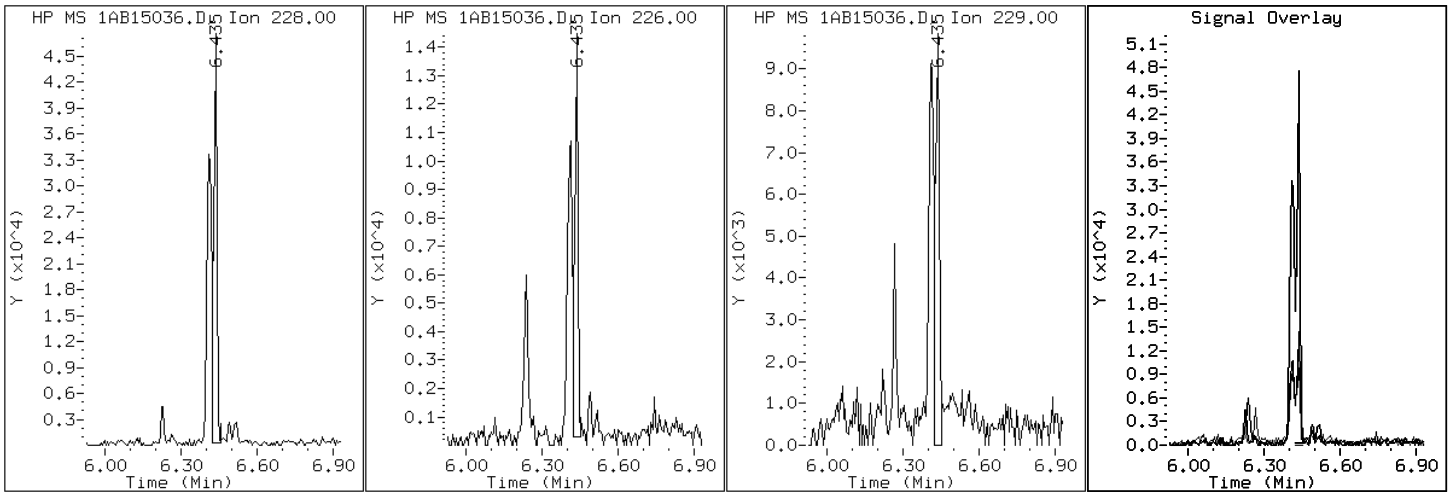
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

19 Chrysene



Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

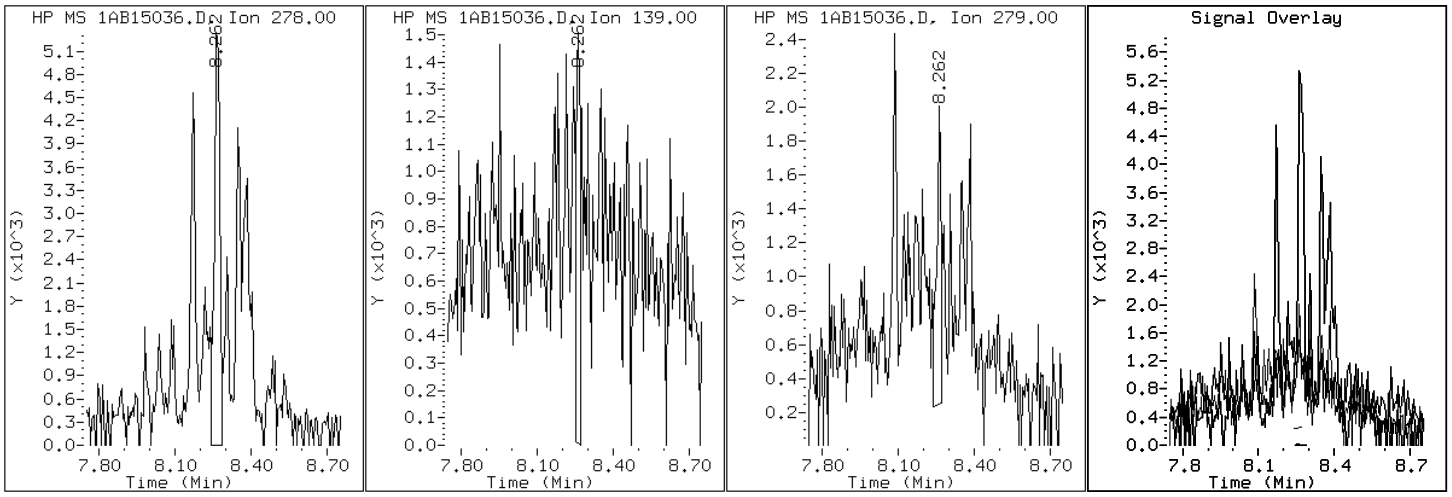
Client ID: CV0005S-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a

Operator: SCC

25 Dibenzo(a,h)anthracene



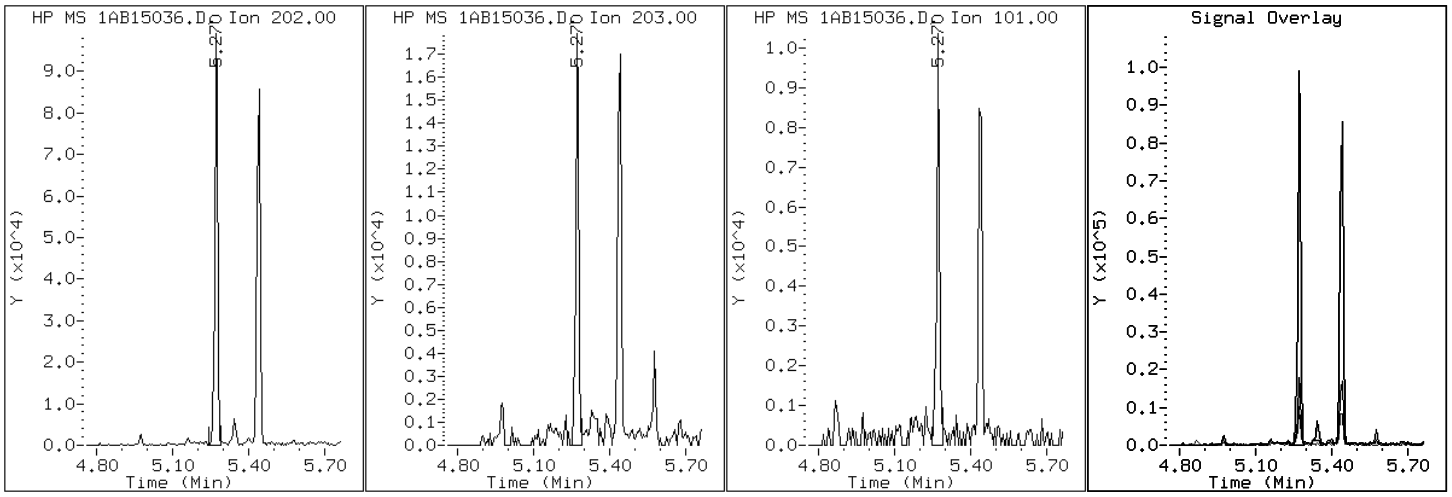
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

15 Fluoranthene



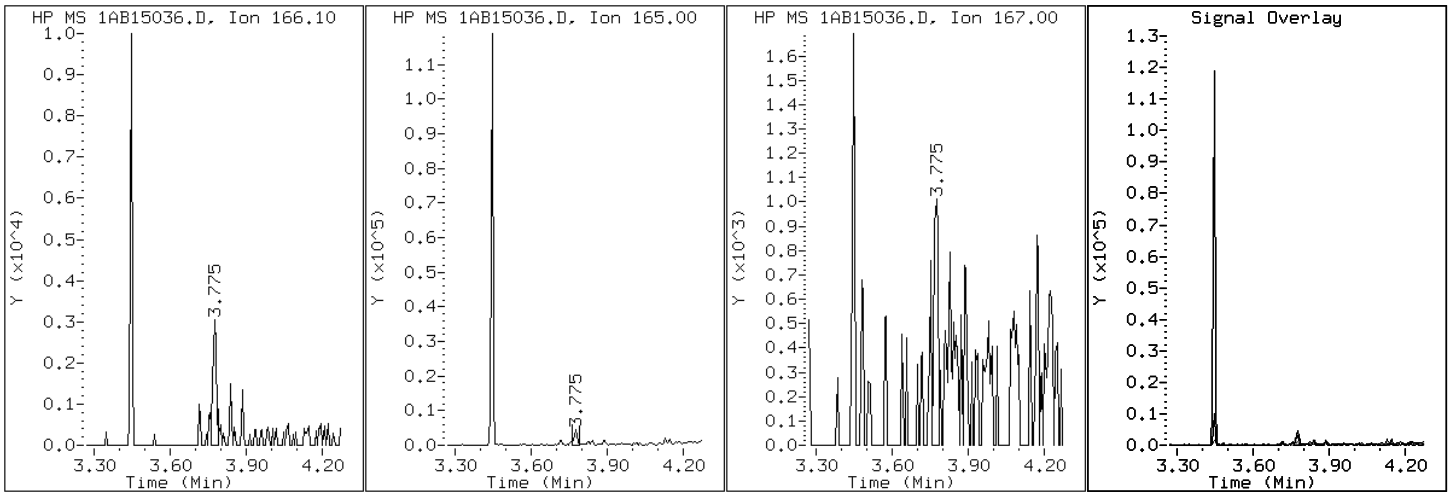
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

9 Fluorene



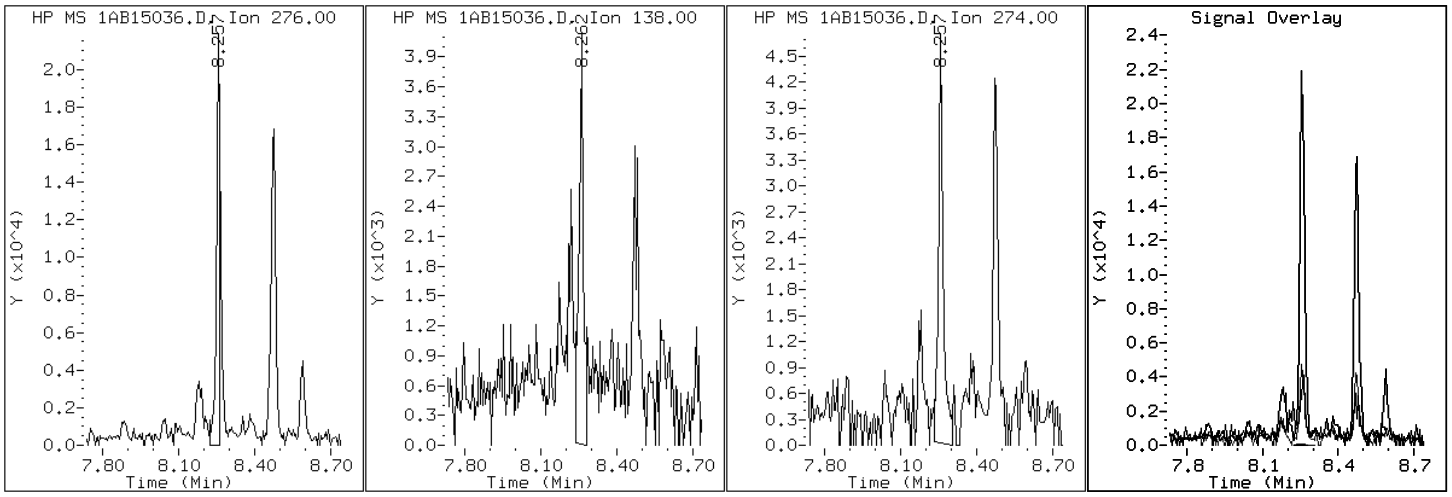
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

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



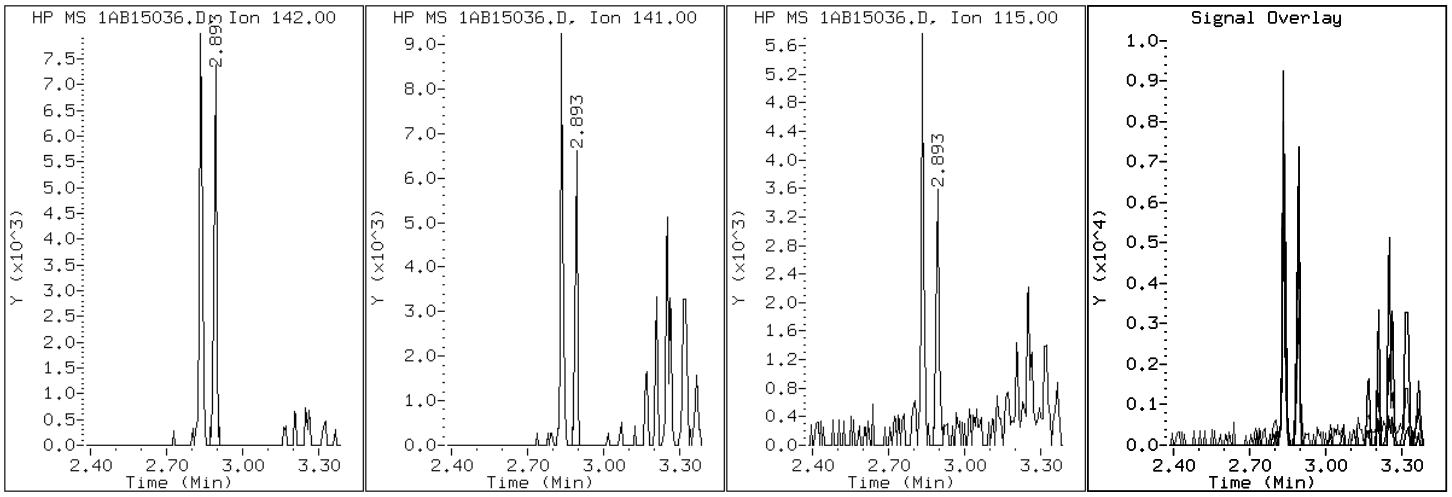
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

4 1-Methylnaphthalene



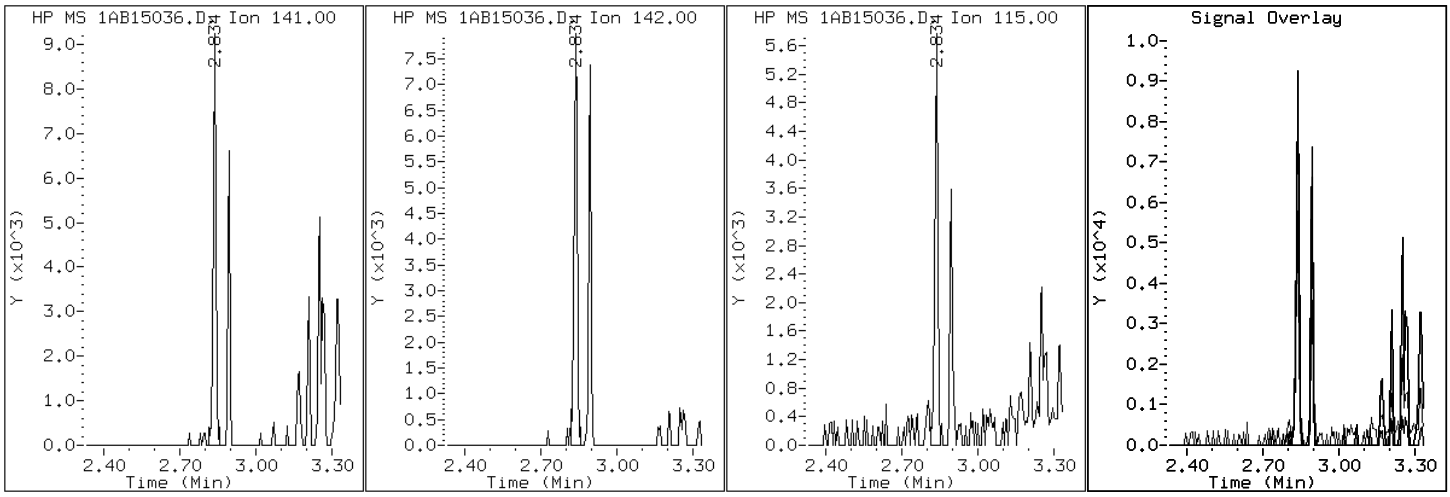
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

3 2-Methylnaphthalene



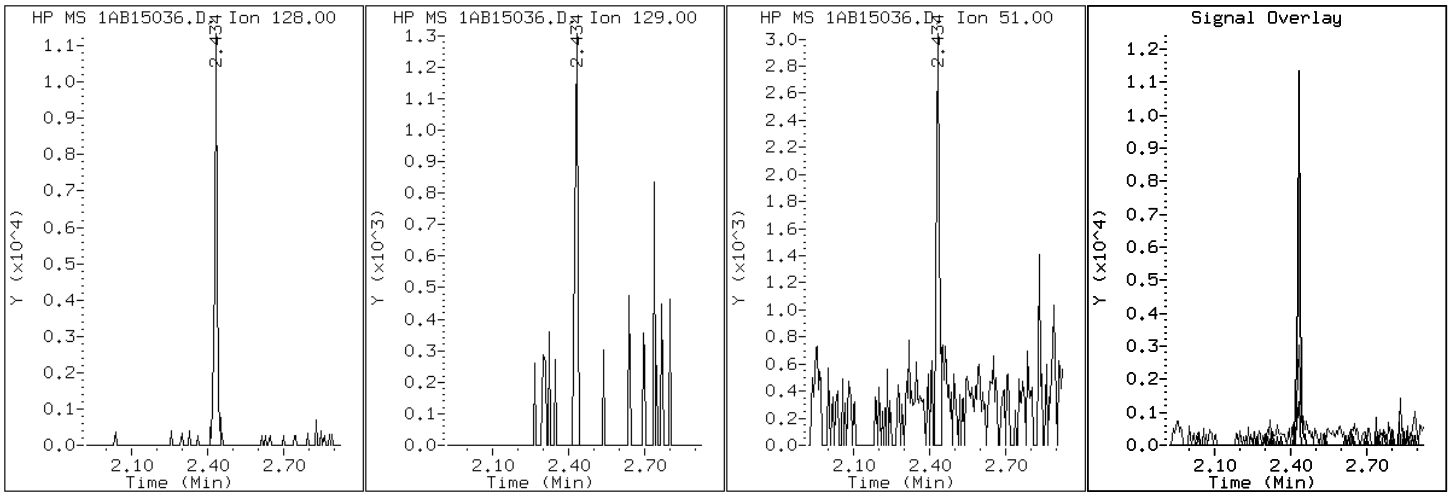
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

2 Naphthalene



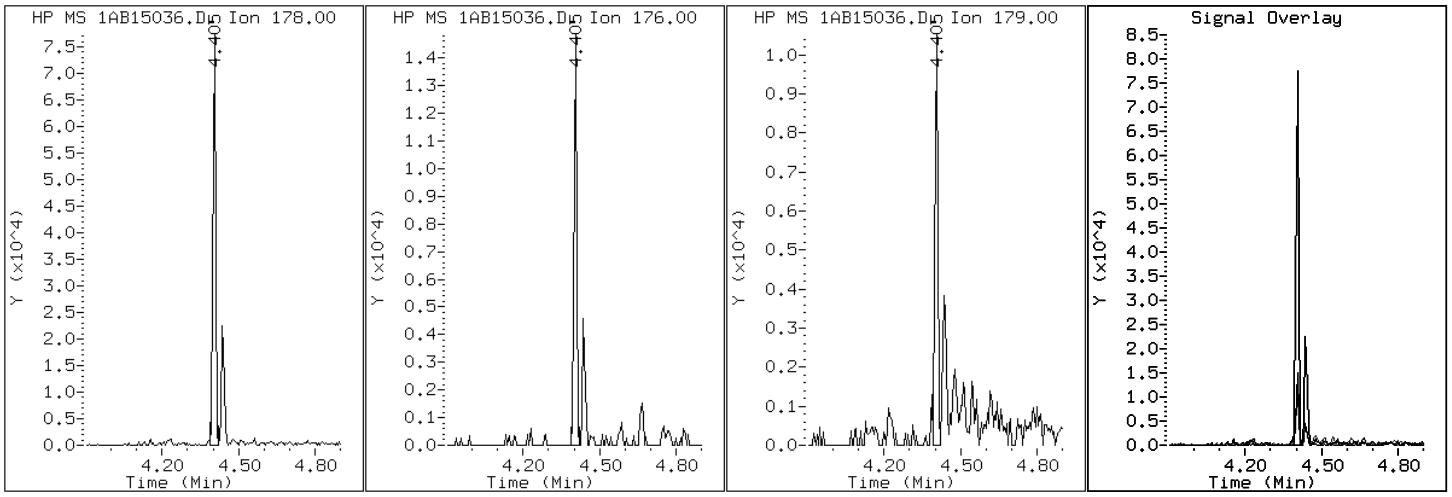
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

11 Phenanthrene



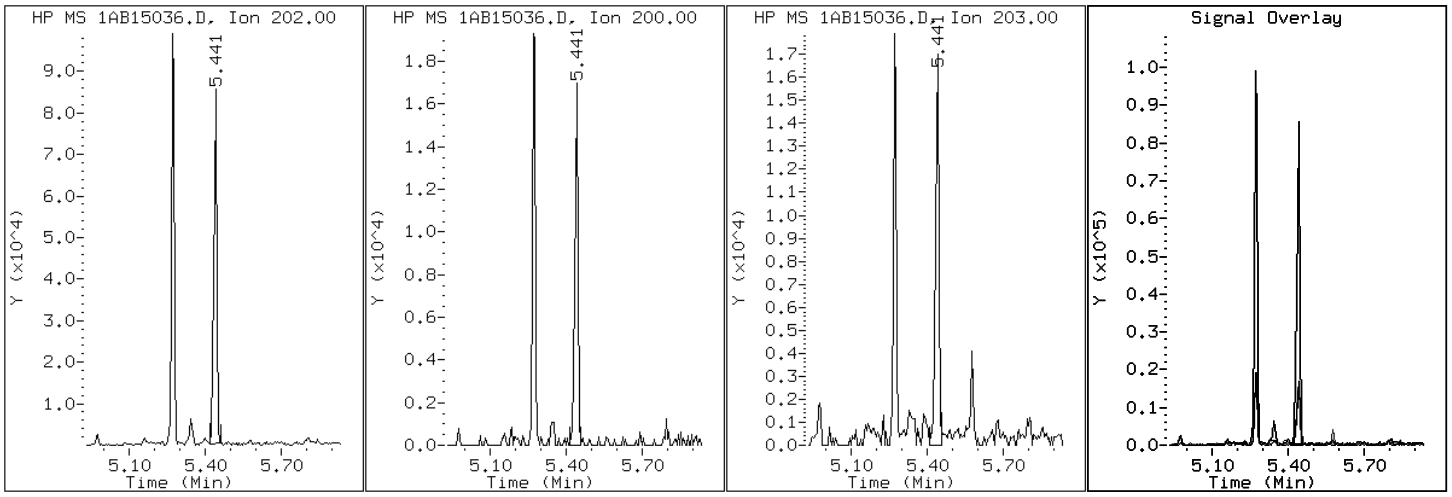
Data File: 1AB15036.D

Date: 15-FEB-2013 22:55

Client ID: CV0005S-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-27-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15036.D
Inj. Date and Time: 15-FEB-2013 22:55
Instrument ID: BSMA5973.i
Client ID: CV0005S-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

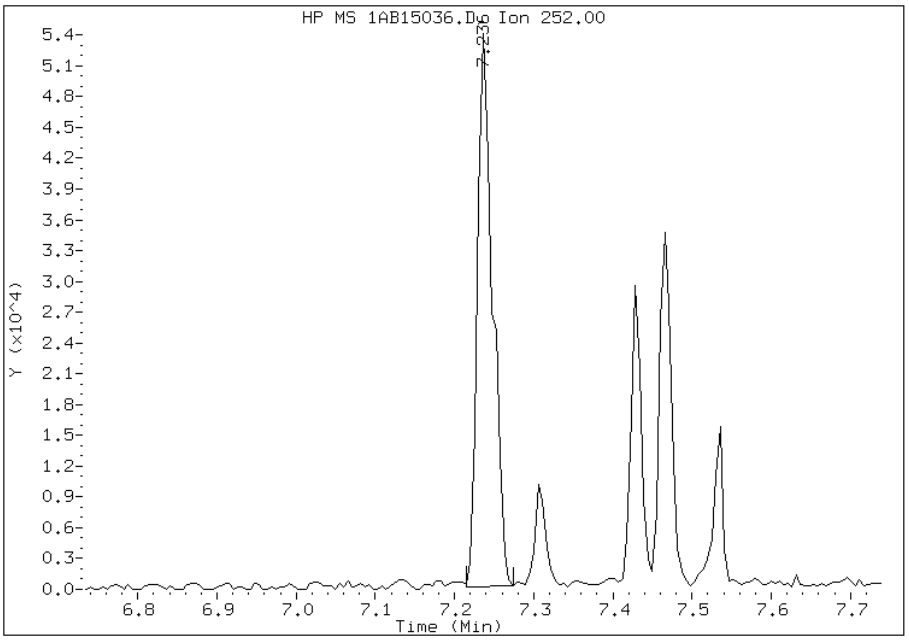
Processing Integration Results

RT: 7.24

Response: 70260

Amount: 3

Conc: 1165



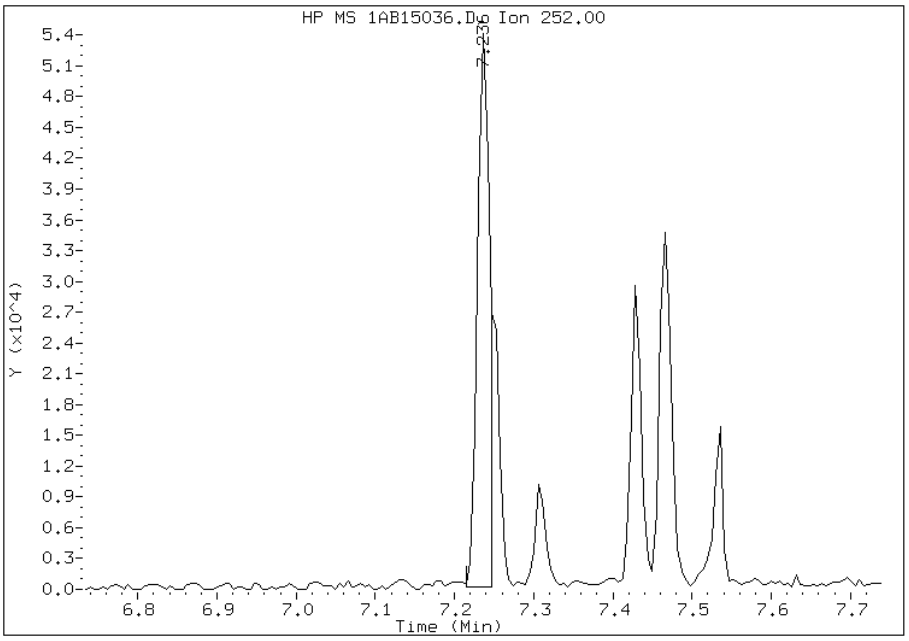
Manual Integration Results

RT: 7.24

Response: 57025

Amount: 3

Conc: 945



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:15
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15036.D
Inj. Date and Time: 15-FEB-2013 22:55
Instrument ID: BSMA5973.i
Client ID: CV0005S-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

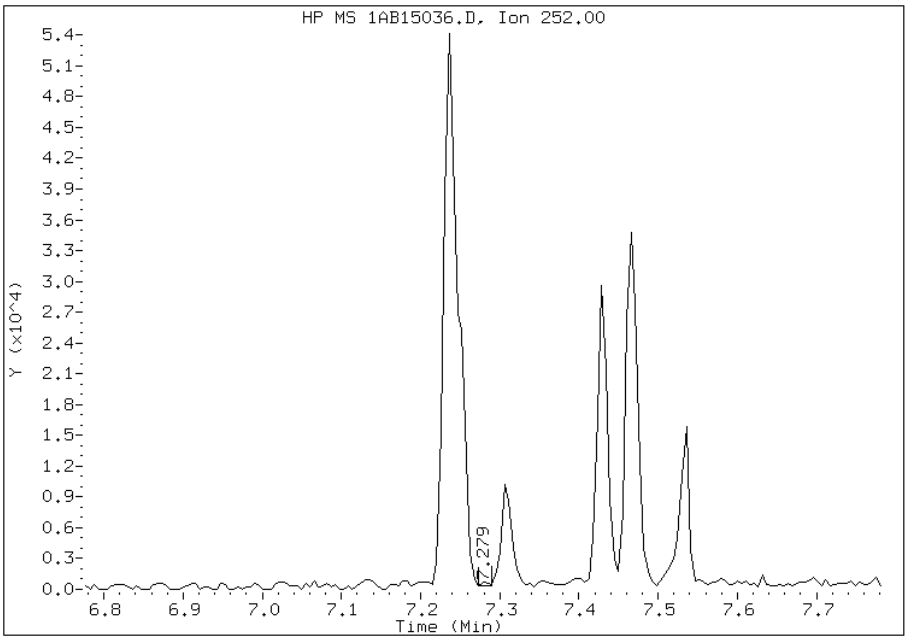
Processing Integration Results

RT: 7.28

Response: 183

Amount: 0

Conc: 3



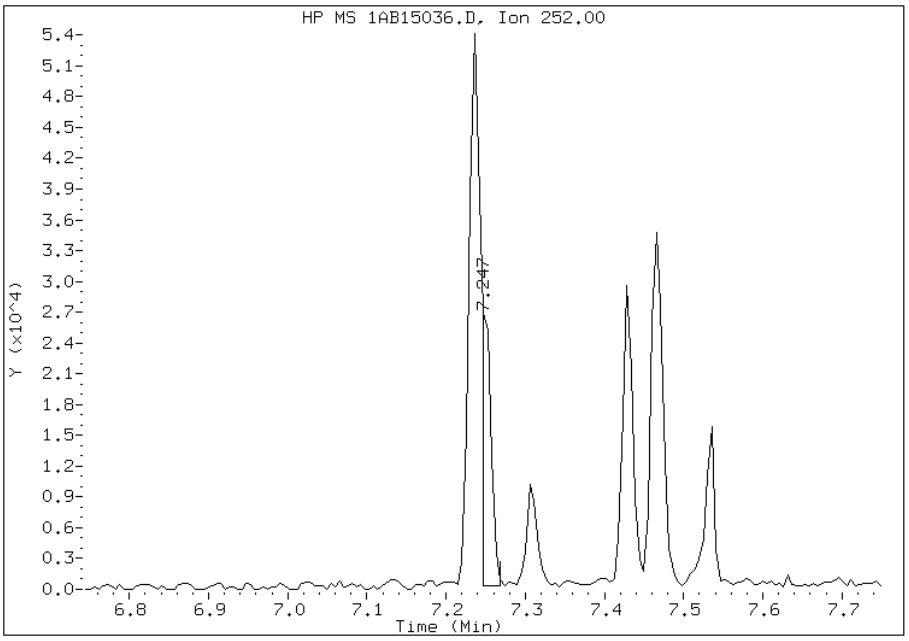
Manual Integration Results

RT: 7.25

Response: 21628

Amount: 1

Conc: 343



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15036.D
Inj. Date and Time: 15-FEB-2013 22:55
Instrument ID: BSMA5973.i
Client ID: CV0005S-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

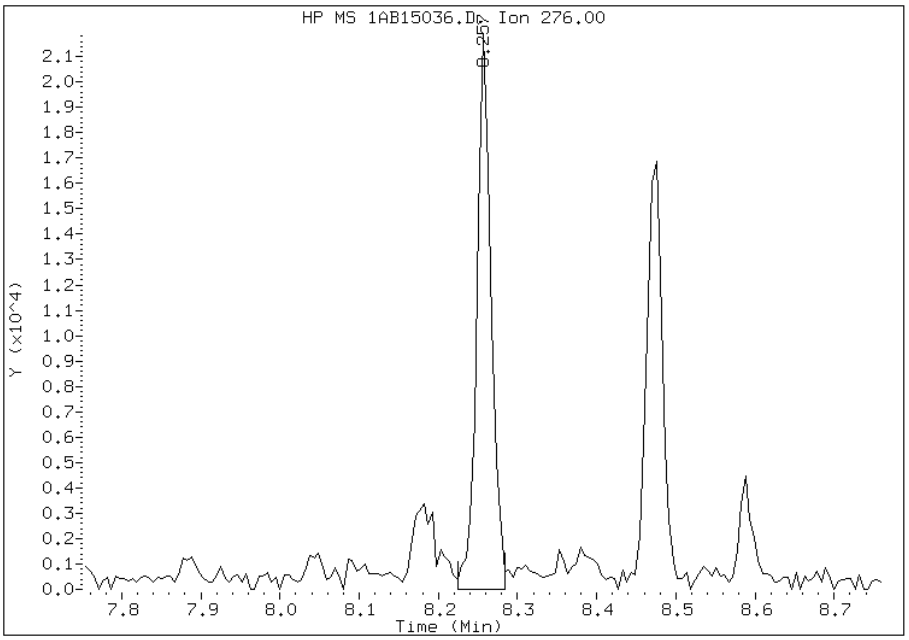
Processing Integration Results

RT: 8.26

Response: 27053

Amount: 2

Conc: 598



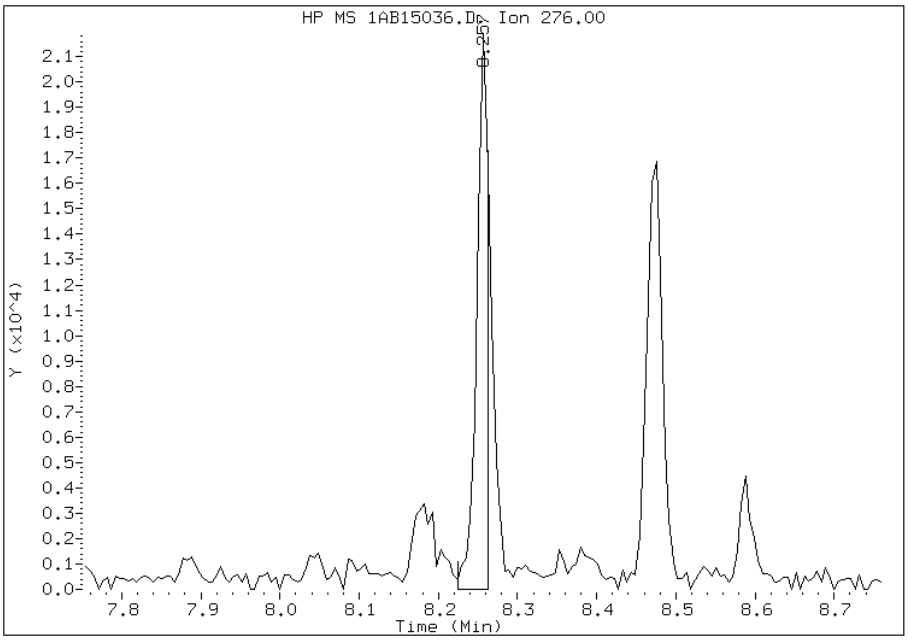
Manual Integration Results

RT: 8.26

Response: 20886

Amount: 1

Conc: 462



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:15
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005T-CS | Lab Sample ID: 680-87318-28

Matrix: Solid | Lab File ID: 1AB15037.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 14:23

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.00(g) | Date Analyzed: 02/15/2013 23:10

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

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

% Moisture: 25.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	270		210	27
120-12-7	Anthracene	320		45	22
56-55-3	Benzo[a]anthracene	1000		43	21
50-32-8	Benzo[a]pyrene	770		55	28
205-99-2	Benzo[b]fluoranthene	1000		65	33
191-24-2	Benzo[g,h,i]perylene	640		110	23
207-08-9	Benzo[k]fluoranthene	450		43	19
218-01-9	Chrysene	890		48	24
53-70-3	Dibenz(a,h)anthracene	220		110	22
206-44-0	Fluoranthene	1300		110	21
86-73-7	Fluorene	50	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	550		110	38
90-12-0	1-Methylnaphthalene	140	J	210	23
91-57-6	2-Methylnaphthalene	160	J	210	38
91-20-3	Naphthalene	140	J	210	23
85-01-8	Phenanthrene	730		43	21
129-00-0	Pyrene	1100		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	86		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15037.D
Lab Smp Id: 680-87318-A-28-A Client Smp ID: CV0005T-CS
Inj Date : 15-FEB-2013 23:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-28-a
Misc Info : 680-87318-A-28-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 34
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.000	Weight Extracted
M	25.038	% 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	2.423	2.415	(1.000)	720029	40.0000	
* 6 Acenaphthene-d10	164	3.449	3.441	(1.000)	525695	40.0000	
* 10 Phenanthrene-d10	188	4.395	4.386	(1.000)	761201	40.0000	
$ 14 o-Terphenyl	230	4.672	4.664	(1.063)	23859	2.15711	767.3566
* 18 Chrysene-d12	240	6.419	6.411	(1.000)	630316	40.0000	
* 23 Perylene-d12	264	7.525	7.501	(1.000)	793933	40.0000	
2 Naphthalene	128	2.434	2.426	(1.004)	6851	0.39201	139.4499
3 2-Methylnaphthalene	141	2.835	2.832	(1.170)	4199	0.44848	159.5408
4 1-Methylnaphthalene	142	2.888	2.885	(1.192)	4206	0.39685	141.1727
5 Acenaphthylene	152	3.363	3.355	(0.975)	17733	0.76395	271.7646
9 Fluorene	166	3.775	3.772	(1.094)	2212	0.14002	49.8109(Q)
11 Phenanthrene	178	4.405	4.402	(1.002)	42534	2.04647	728.0014
12 Anthracene	178	4.437	4.434	(1.010)	18824	0.88832	316.0059
13 Carbazole	167	4.598	4.589	(1.046)	7398	0.40728	144.8842

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.271	5.262	(1.199)	78034	3.78694	1347.1440
16 Pyrene	202	5.442	5.433	(0.848)	70063	3.07782	1094.8861
17 Benzo(a)anthracene	228	6.414	6.395	(0.999)	54351	2.88788	1027.3184
19 Chrysene	228	6.435	6.427	(1.002)	45740	2.49337	886.9781
20 Benzo(b)fluoranthene	252	7.237	7.217	(0.962)	64776	2.92326	1039.9026(M)
21 Benzo(k)fluoranthene	252	7.247	7.239	(0.963)	29142	1.25787	447.4660(M)
22 Benzo(a)pyrene	252	7.466	7.452	(0.992)	45487	2.16169	768.9861
24 Indeno(1,2,3-cd)pyrene	276	8.262	8.238	(1.098)	25737	1.54896	551.0183(M)
25 Dibenzo(a,h)anthracene	278	8.268	8.254	(1.099)	10415	0.62700	223.0455
26 Benzo(g,h,i)perylene	276	8.481	8.446	(1.127)	31105	1.80698	642.8056

QC Flag Legend

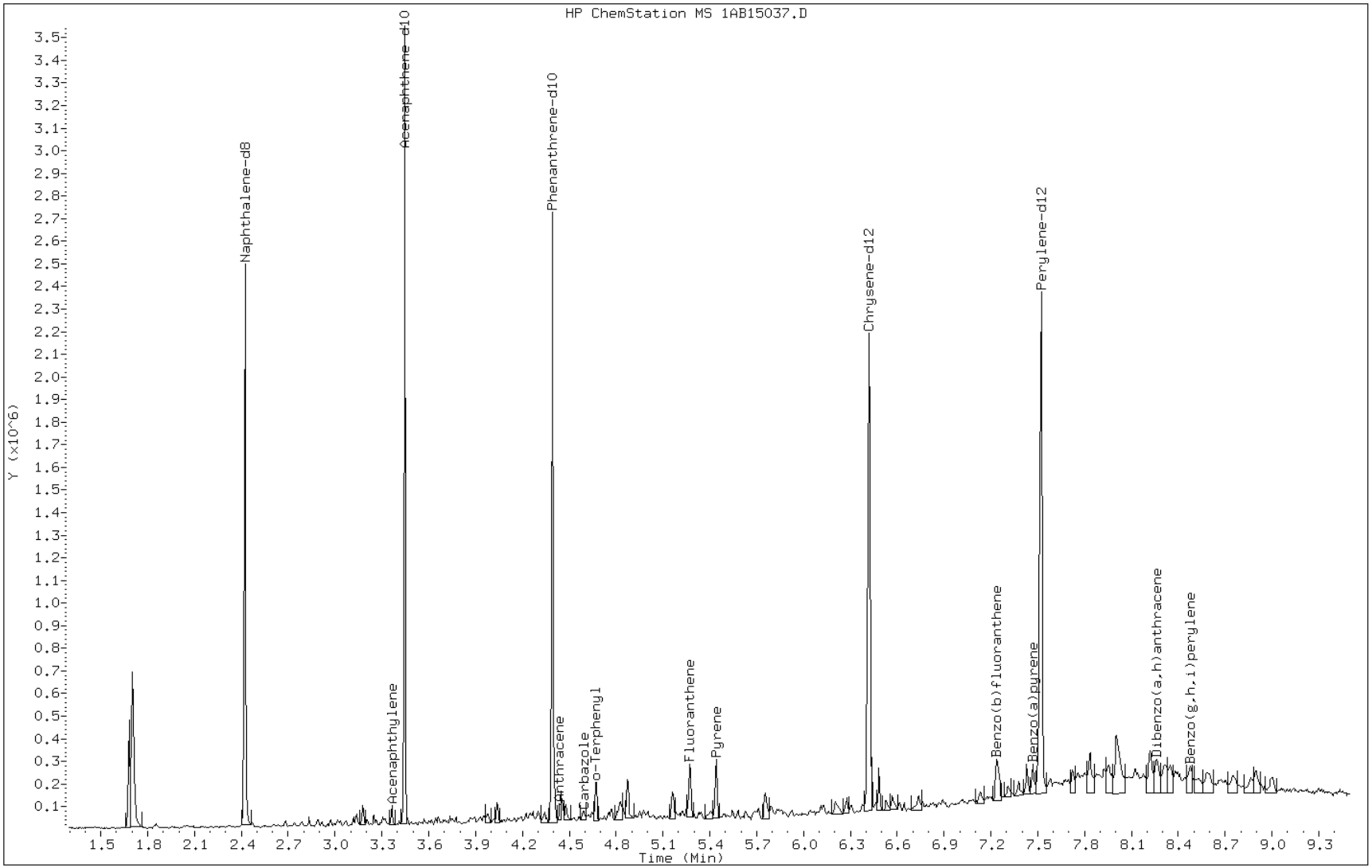
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS | Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a | Operator: SCC



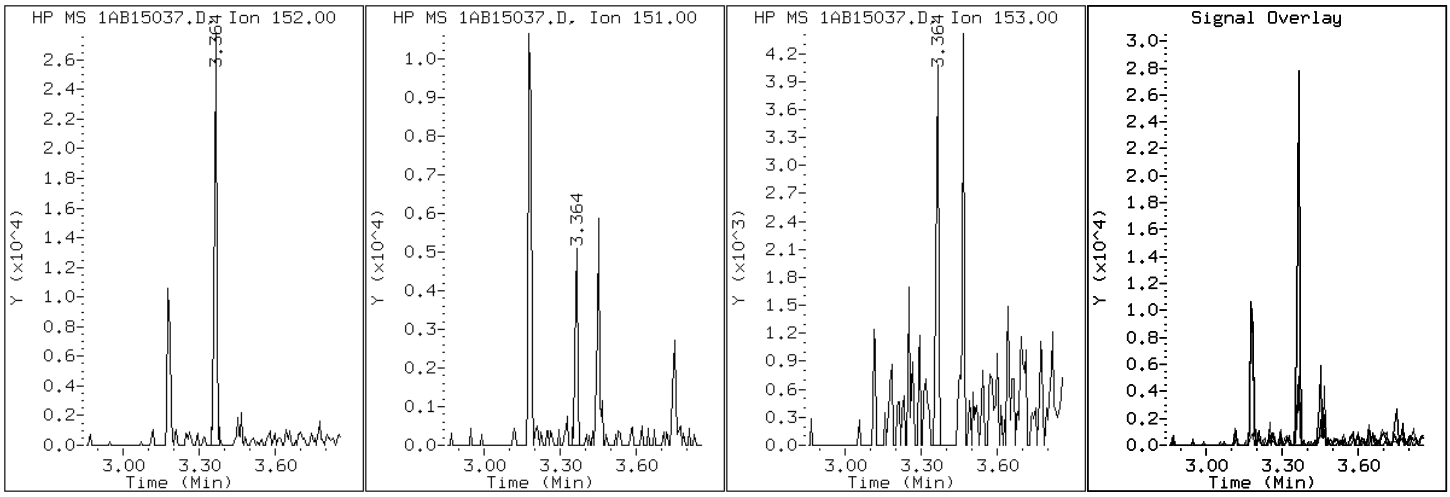
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

5 Acenaphthylene



Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

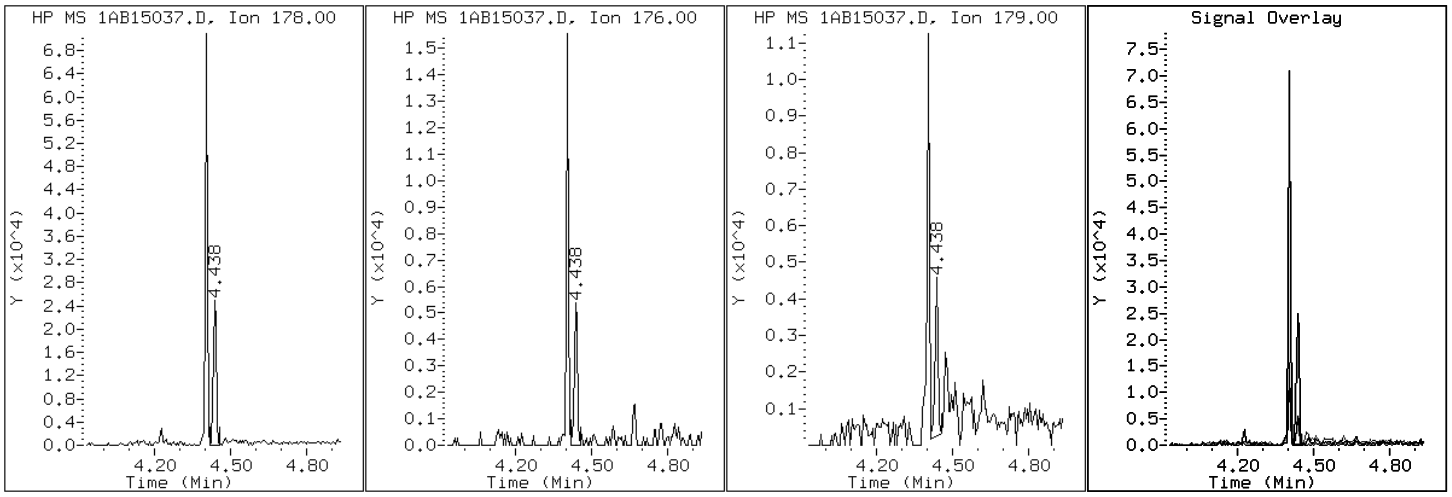
Client ID: CV0005T-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a

Operator: SCC

12 Anthracene



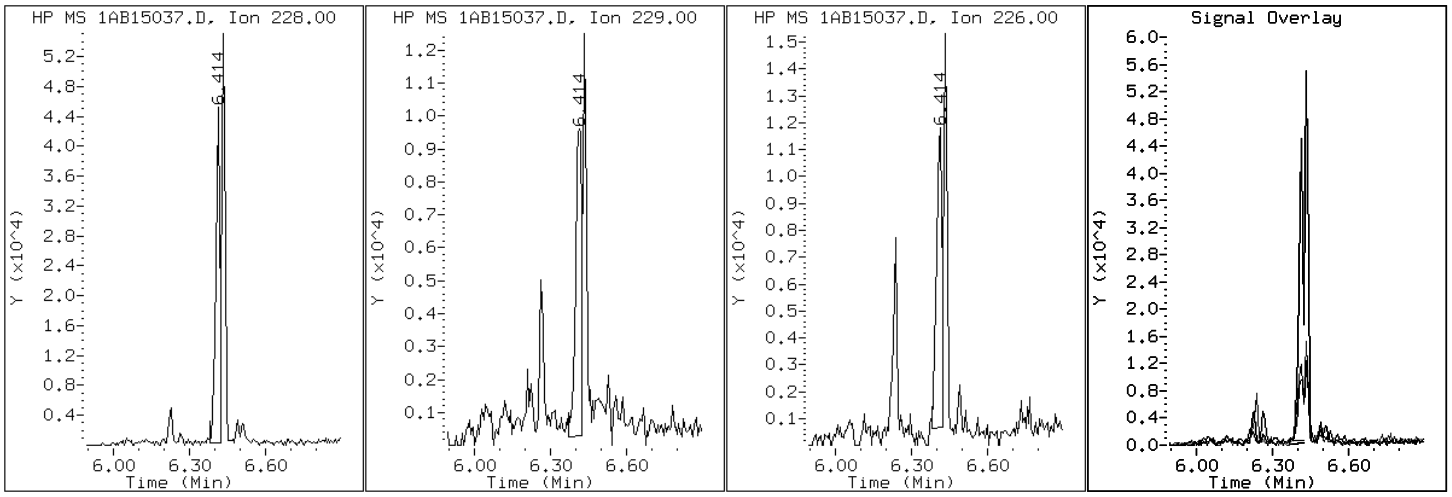
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

17 Benzo(a)anthracene



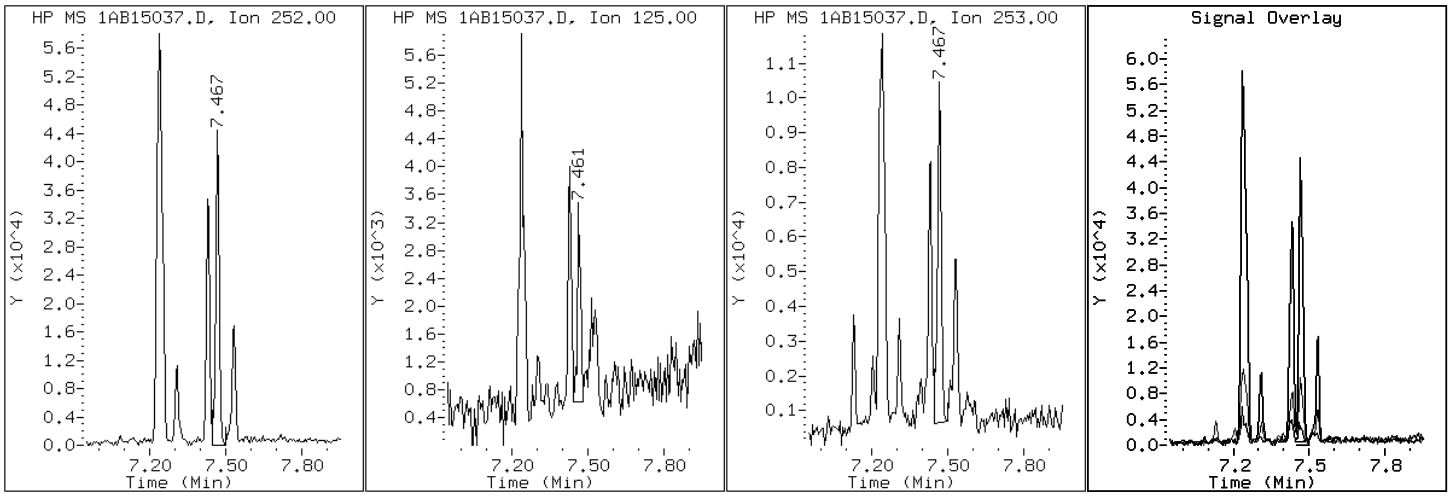
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

22 Benzo(a)pyrene



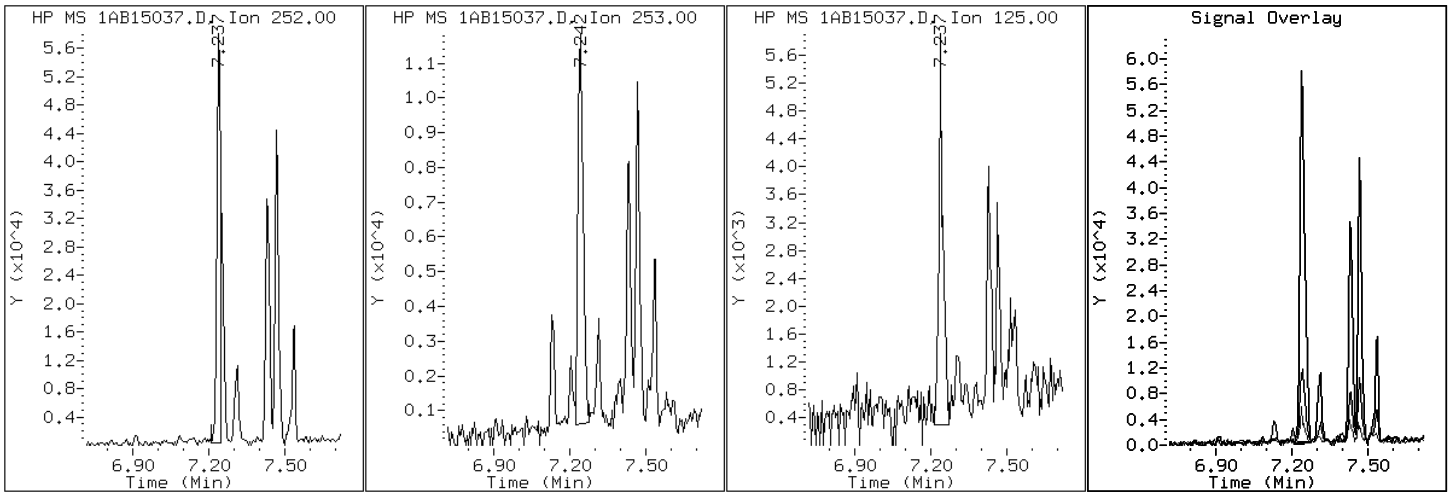
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

20 Benzo(b)fluoranthene



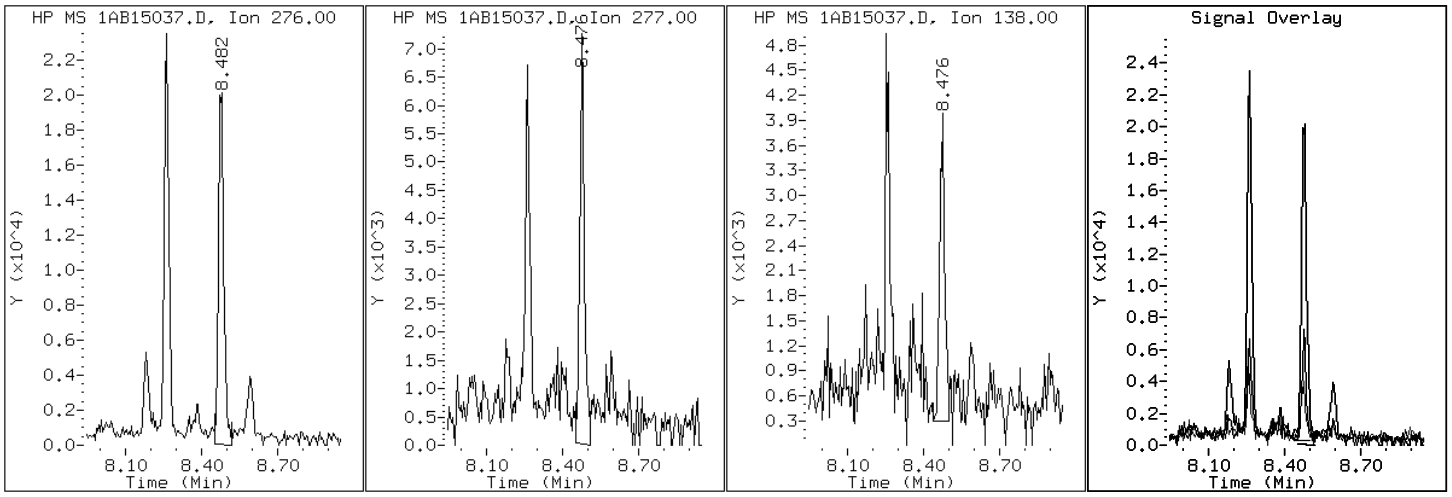
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

26 Benzo(g,h,i)perylene



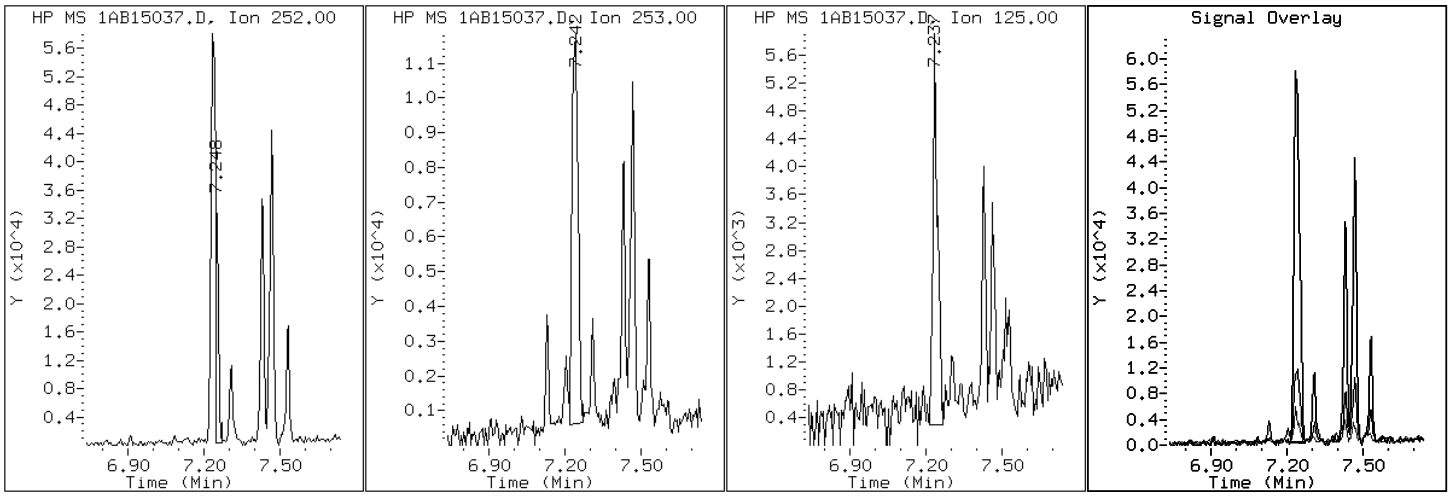
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

21 Benzo(k)fluoranthene



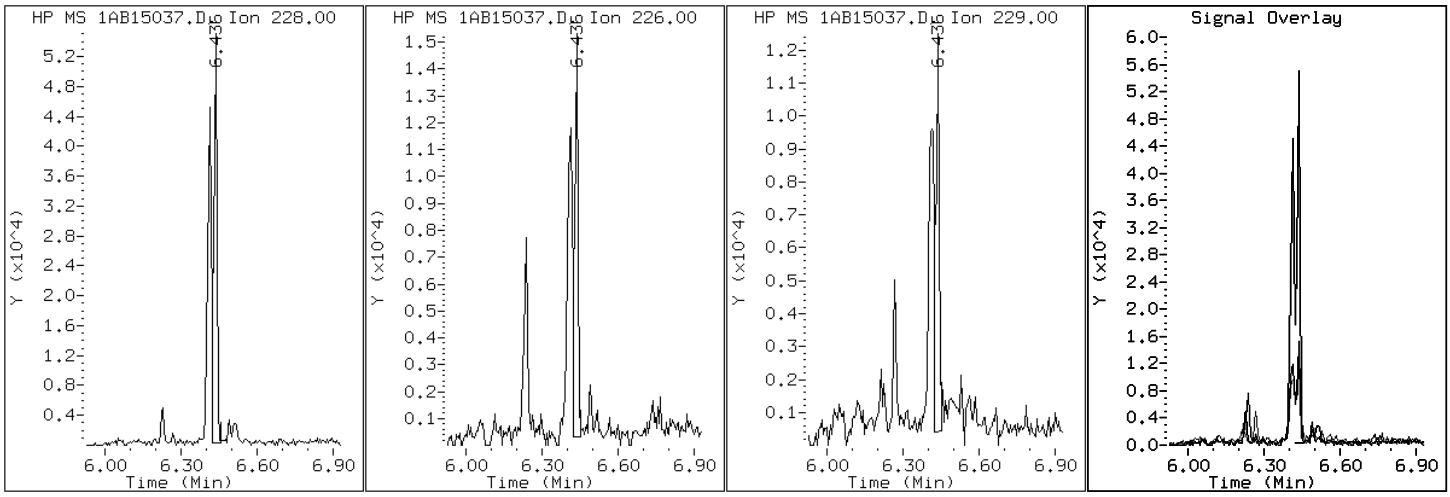
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

19 Chrysene



Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

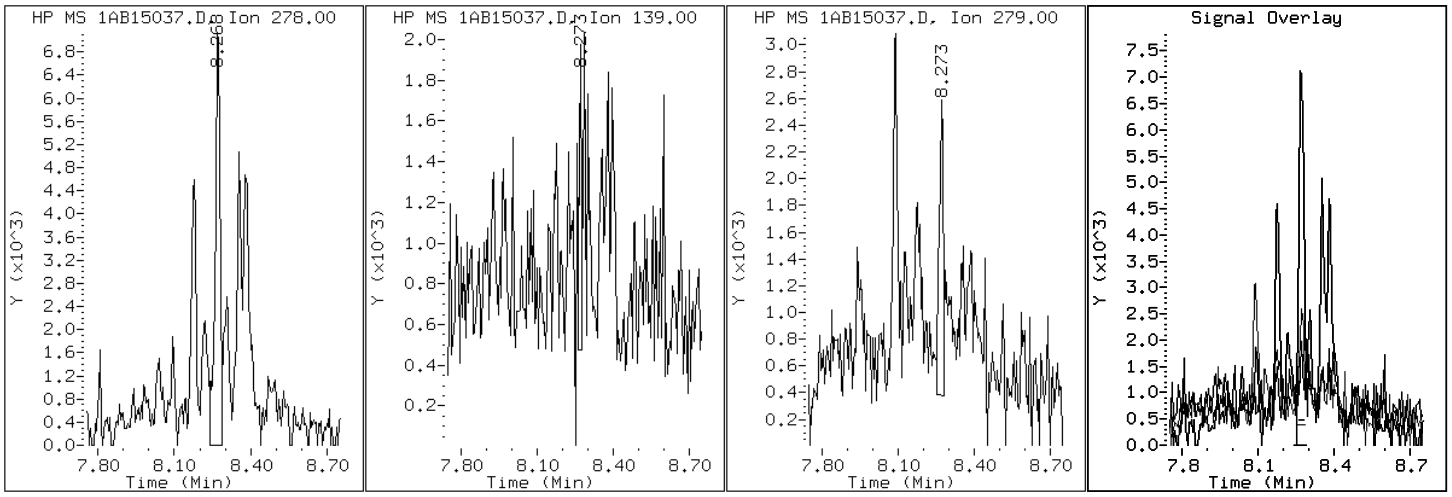
Client ID: CV0005T-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a

Operator: SCC

25 Dibenzo(a,h)anthracene



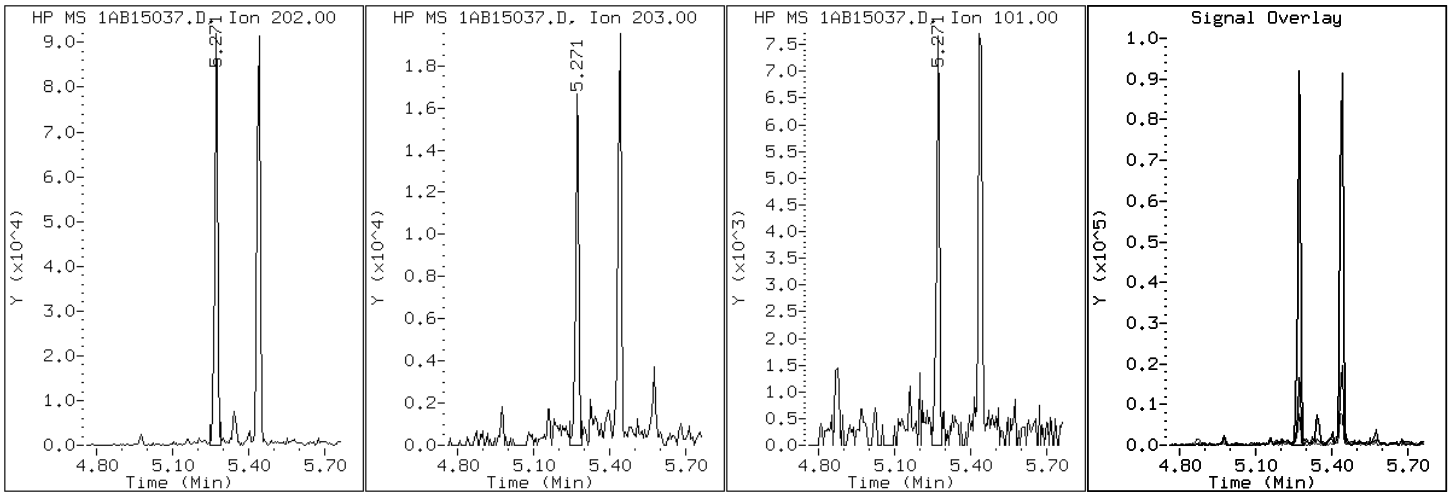
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

15 Fluoranthene



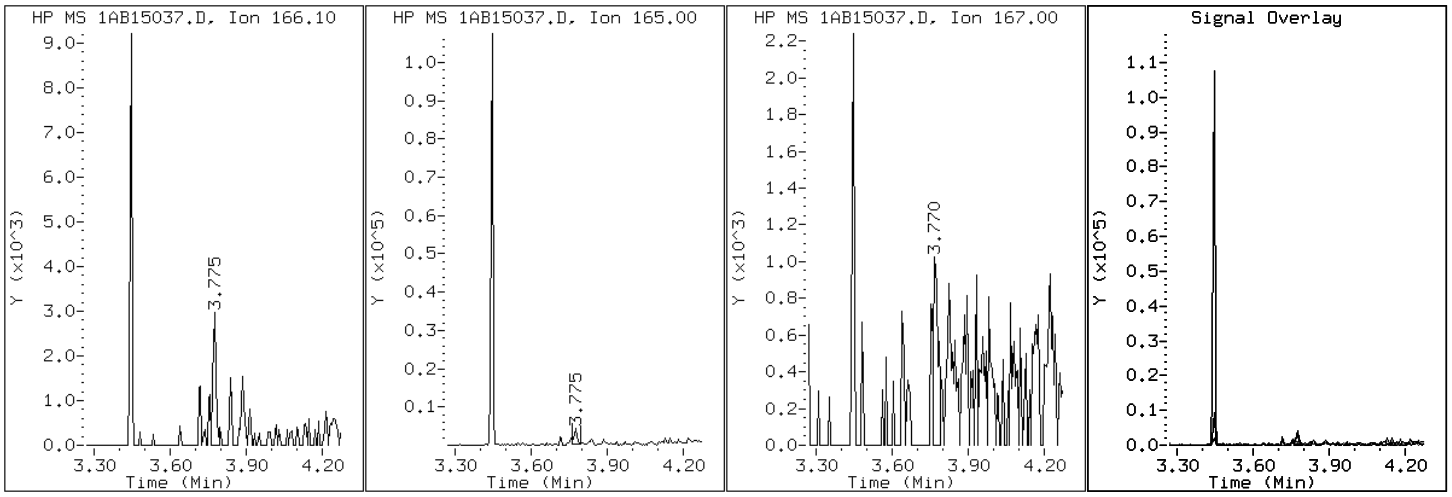
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

9 Fluorene



Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

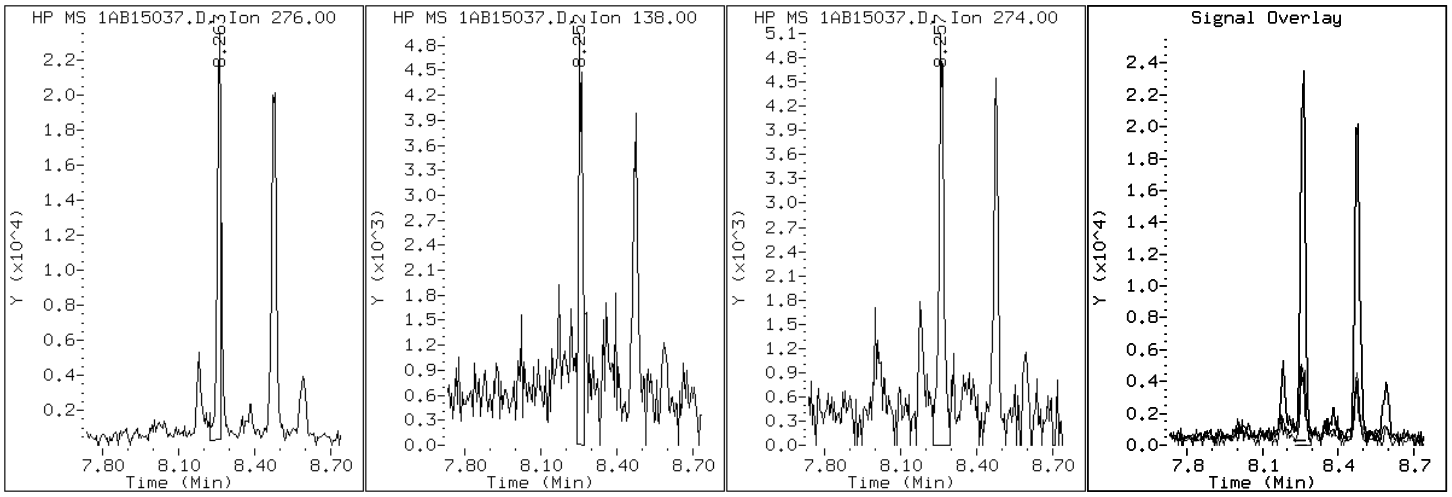
Client ID: CV0005T-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a

Operator: SCC

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



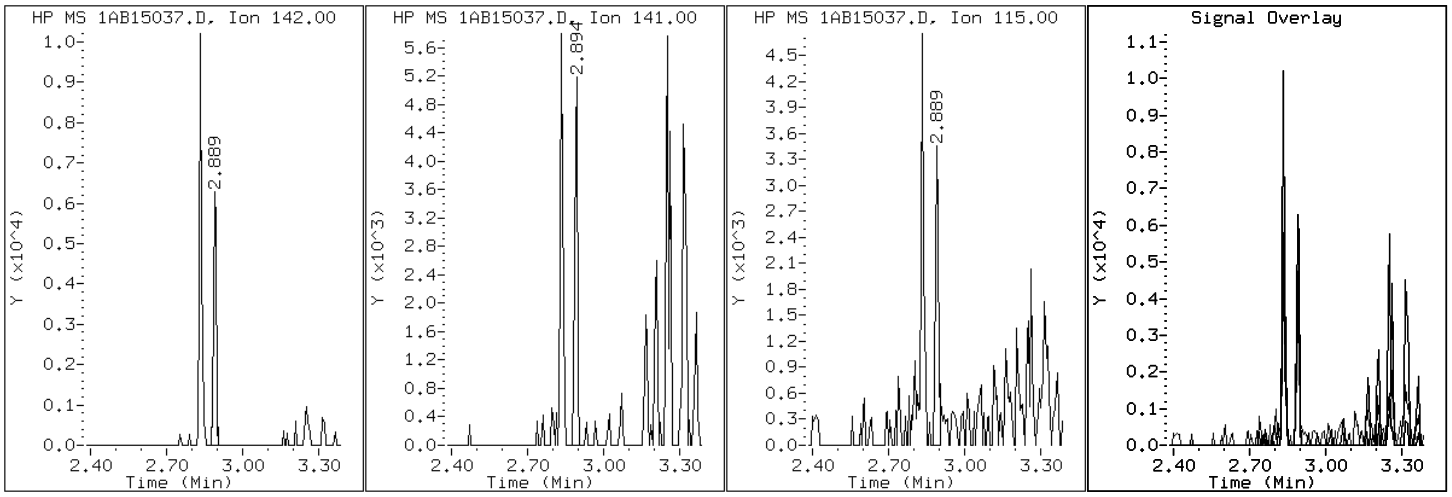
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

4 1-Methylnaphthalene



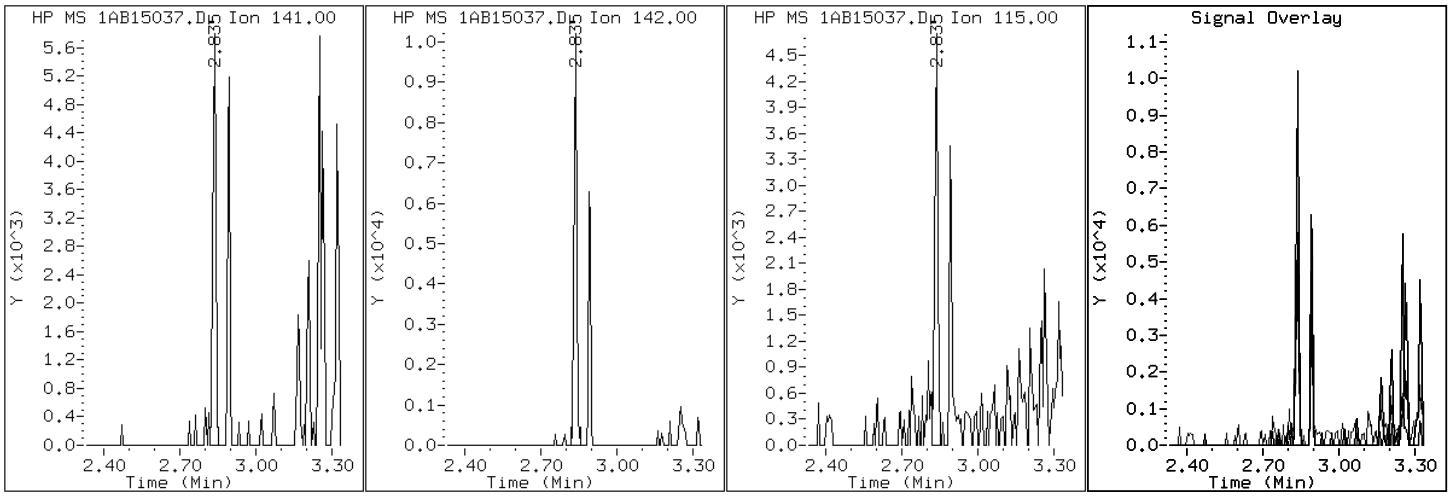
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

3 2-Methylnaphthalene



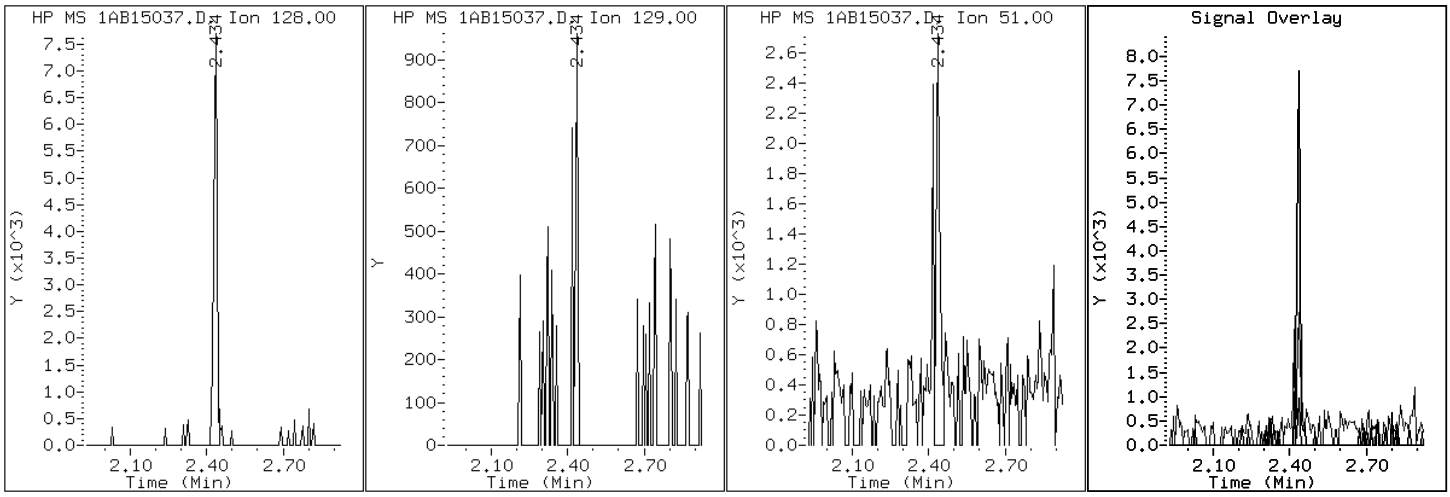
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

2 Naphthalene



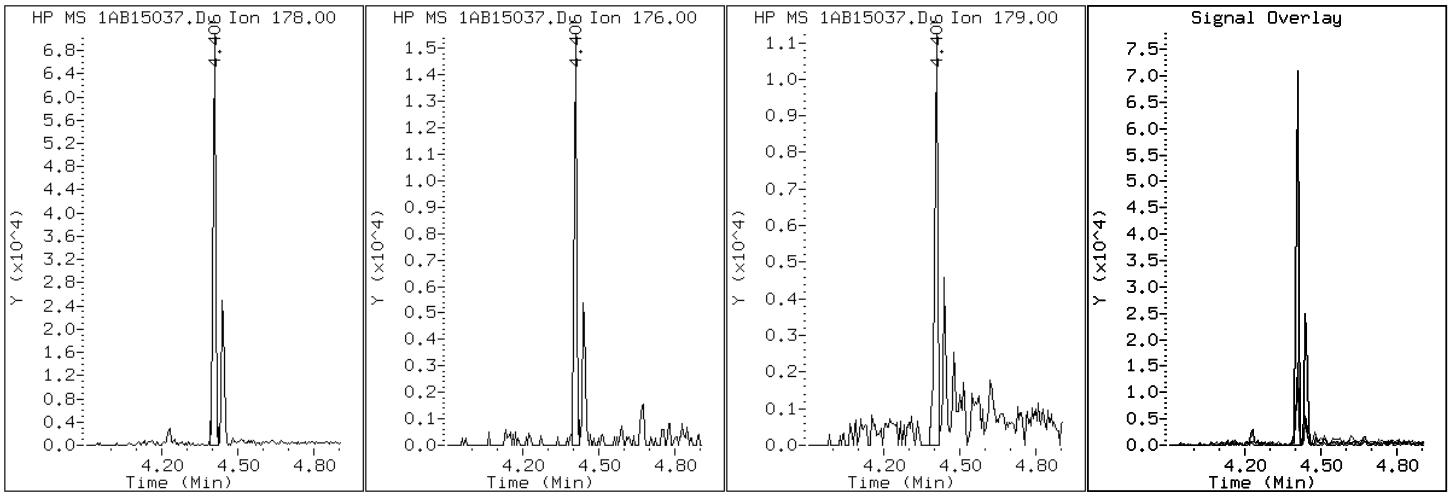
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

11 Phenanthrene



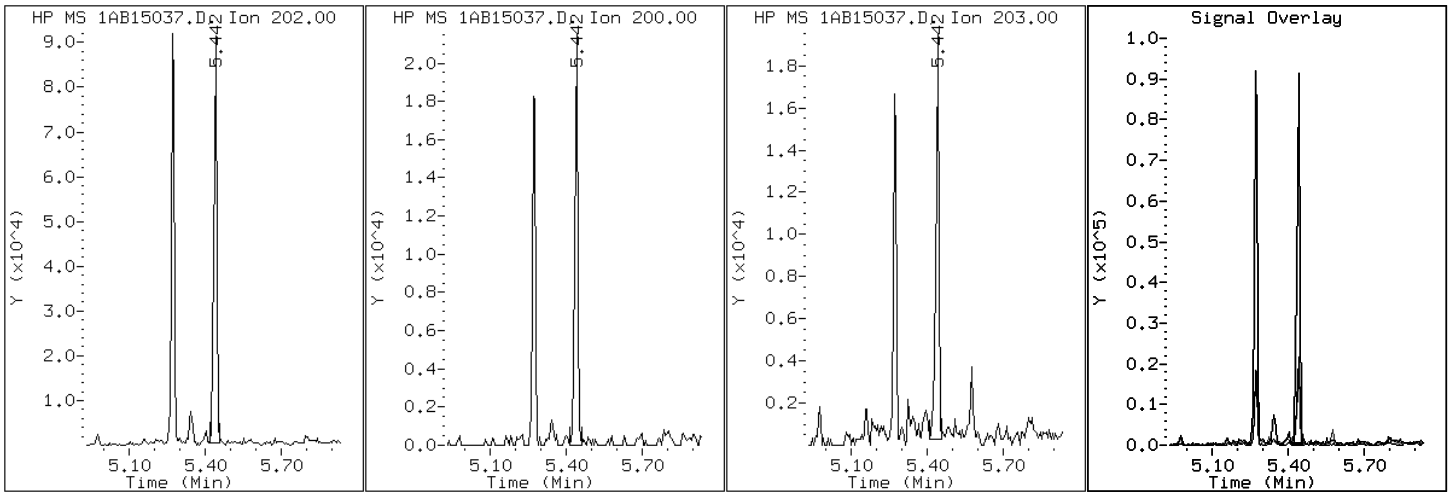
Data File: 1AB15037.D

Date: 15-FEB-2013 23:10

Client ID: CV0005T-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-28-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15037.D
Inj. Date and Time: 15-FEB-2013 23:10
Instrument ID: BSMA5973.i
Client ID: CV0005T-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

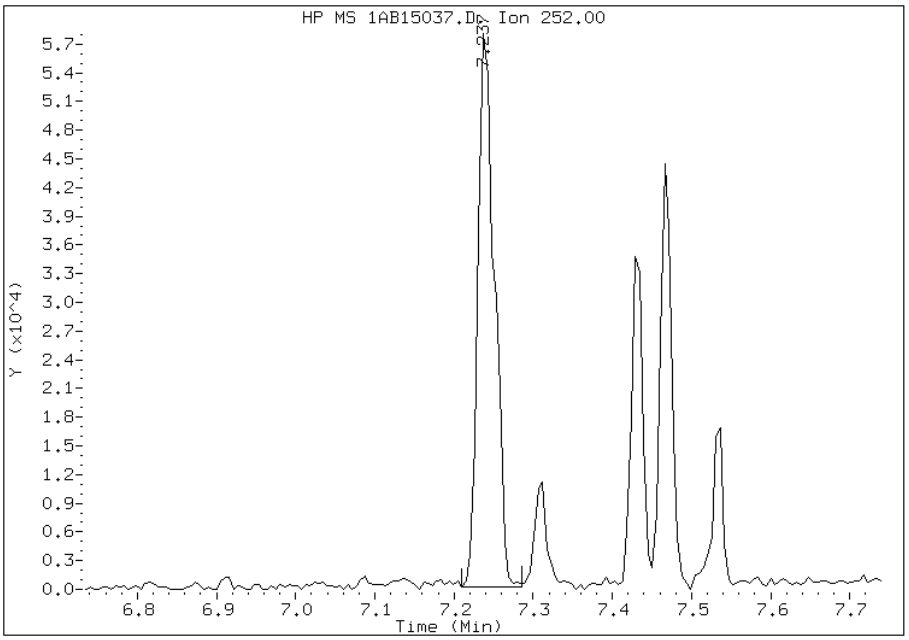
Processing Integration Results

RT: 7.24

Response: 83185

Amount: 4

Conc: 1335



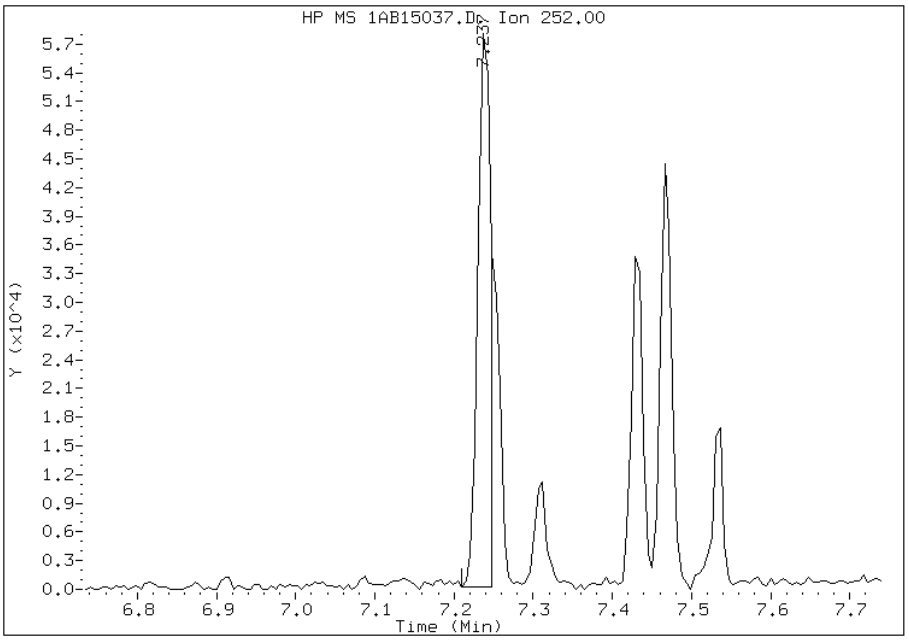
Manual Integration Results

RT: 7.24

Response: 64776

Amount: 3

Conc: 1040



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15037.D
Inj. Date and Time: 15-FEB-2013 23:10
Instrument ID: BSMA5973.i
Client ID: CV0005T-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

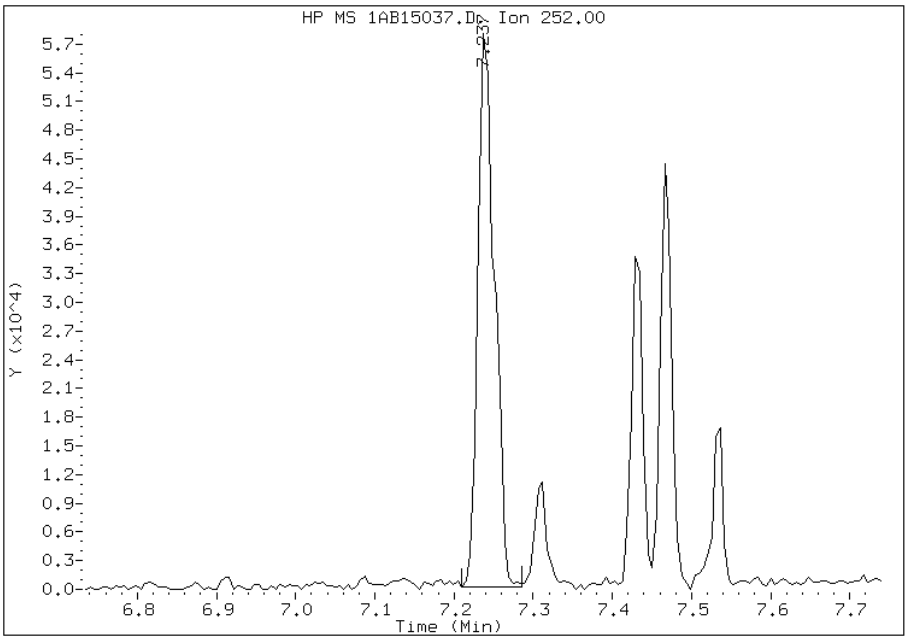
Processing Integration Results

RT: 7.24

Response: 83185

Amount: 4

Conc: 1277



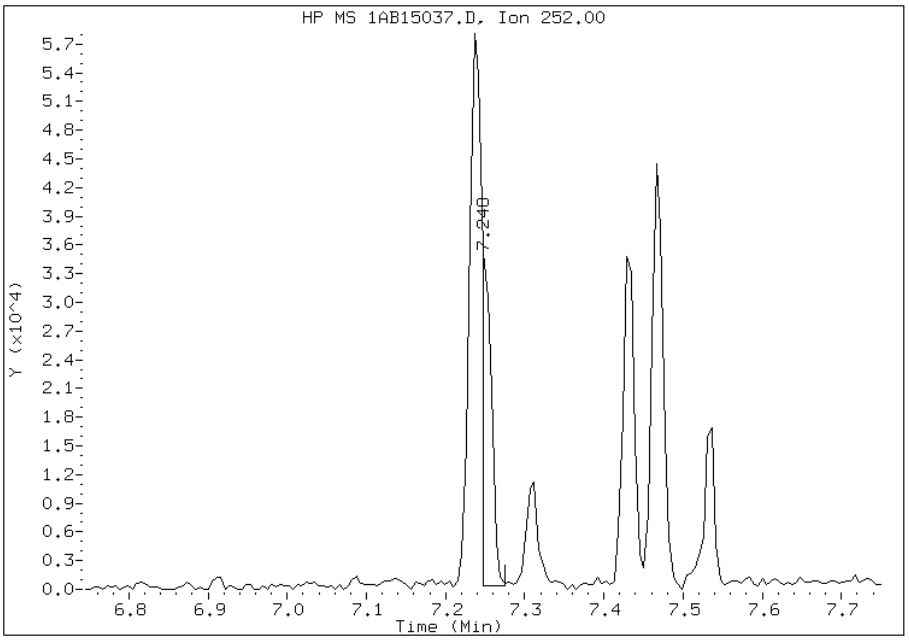
Manual Integration Results

RT: 7.25

Response: 29142

Amount: 1

Conc: 447



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15037.D
Inj. Date and Time: 15-FEB-2013 23:10
Instrument ID: BSMA5973.i
Client ID: CV0005T-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

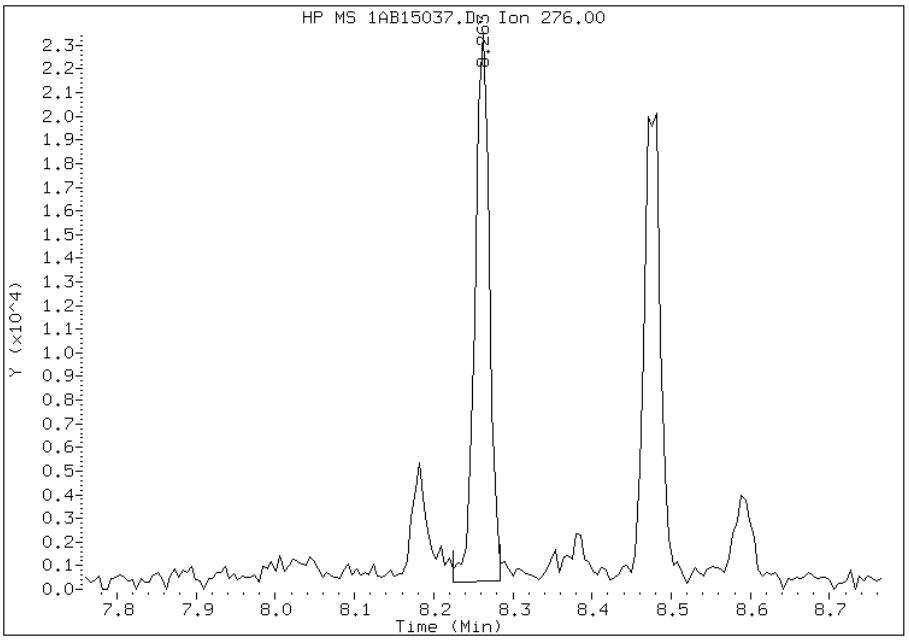
Processing Integration Results

RT: 8.26

Response: 29317

Amount: 2

Conc: 628



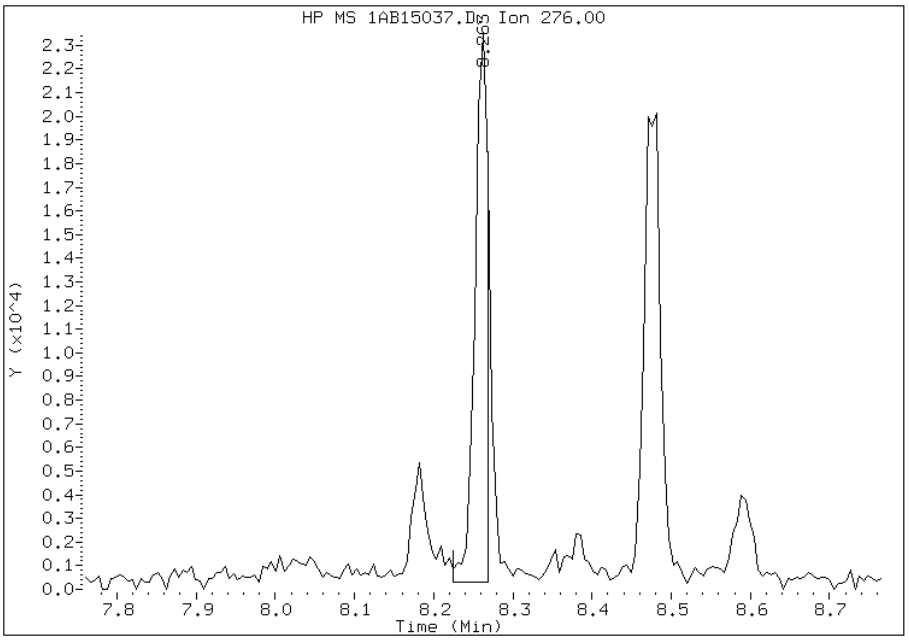
Manual Integration Results

RT: 8.26

Response: 25737

Amount: 2

Conc: 551



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:35
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005T-CSD | Lab Sample ID: 680-87318-29

Matrix: Solid | Lab File ID: 1AB15038.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 14:25

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.24(g) | Date Analyzed: 02/15/2013 23:25

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

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

% Moisture: 25.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	250		210	27
120-12-7	Anthracene	280		45	22
56-55-3	Benzo[a]anthracene	1100		42	21
50-32-8	Benzo[a]pyrene	660		55	28
205-99-2	Benzo[b]fluoranthene	880		65	32
191-24-2	Benzo[g,h,i]perylene	530		110	23
207-08-9	Benzo[k]fluoranthene	470		42	19
218-01-9	Chrysene	850		48	24
53-70-3	Dibenz(a,h)anthracene	190		110	22
206-44-0	Fluoranthene	1400		110	21
86-73-7	Fluorene	72	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	520		110	38
90-12-0	1-Methylnaphthalene	170	J	210	23
91-57-6	2-Methylnaphthalene	220		210	38
91-20-3	Naphthalene	160	J	210	23
85-01-8	Phenanthrene	790		42	21
129-00-0	Pyrene	1200		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15038.D
Lab Smp Id: 680-87318-A-29-A Client Smp ID: CV0005T-CSD
Inj Date : 15-FEB-2013 23:25
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-29-a
Misc Info : 680-87318-A-29-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 35
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.240	Weight Extracted
M	25.846	% 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	2.421	2.415	(1.000)	730236	40.0000	
* 6 Acenaphthene-d10	164	3.447	3.441	(1.000)	498064	40.0000	
* 10 Phenanthrene-d10	188	4.392	4.386	(1.000)	757328	40.0000	
$ 14 o-Terphenyl	230	4.670	4.664	(1.063)	25474	2.31490	819.3495
* 18 Chrysene-d12	240	6.422	6.411	(1.000)	660749	40.0000	
* 23 Perylene-d12	264	7.523	7.501	(1.000)	835058	40.0000	(H)
2 Naphthalene	128	2.432	2.426	(1.004)	8102	0.45711	161.7912
3 2-Methylnaphthalene	141	2.832	2.832	(1.170)	5832	0.61419	217.3912
4 1-Methylnaphthalene	142	2.891	2.885	(1.194)	5033	0.46824	165.7322
5 Acenaphthylene	152	3.361	3.355	(0.975)	15415	0.70093	248.0931
9 Fluorene	166	3.772	3.772	(1.095)	3053	0.20398	72.1982
11 Phenanthrene	178	4.408	4.402	(1.004)	45875	2.21851	785.2341
12 Anthracene	178	4.440	4.434	(1.011)	16813	0.79748	282.2641
13 Carbazole	167	4.595	4.589	(1.046)	5595	0.30960	109.5806

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.274	5.262	(1.201)	83878	4.09136	1448.1225
16 Pyrene	202	5.439	5.433	(0.847)	78157	3.27525	1159.2621
17 Benzo(a)anthracene	228	6.417	6.395	(0.999)	60356	3.05924	1082.8082
19 Chrysene	228	6.433	6.427	(1.002)	46347	2.41010	853.0450
20 Benzo(b)fluoranthene	252	7.239	7.217	(0.962)	57647	2.47341	875.4558(MH)
21 Benzo(k)fluoranthene	252	7.245	7.239	(0.963)	32666	1.34053	474.4774(M)
22 Benzo(a)pyrene	252	7.469	7.452	(0.993)	41287	1.86546	660.2729(H)
24 Indeno(1,2,3-cd)pyrene	276	8.260	8.238	(1.098)	25465	1.45711	515.7399(MH)
25 Dibenzo(a,h)anthracene	278	8.271	8.254	(1.099)	9347	0.53499	189.3587(H)
26 Benzo(g,h,i)perylene	276	8.474	8.446	(1.126)	27300	1.50783	533.6924(H)

QC Flag Legend

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

Data File: 1AB15038.D

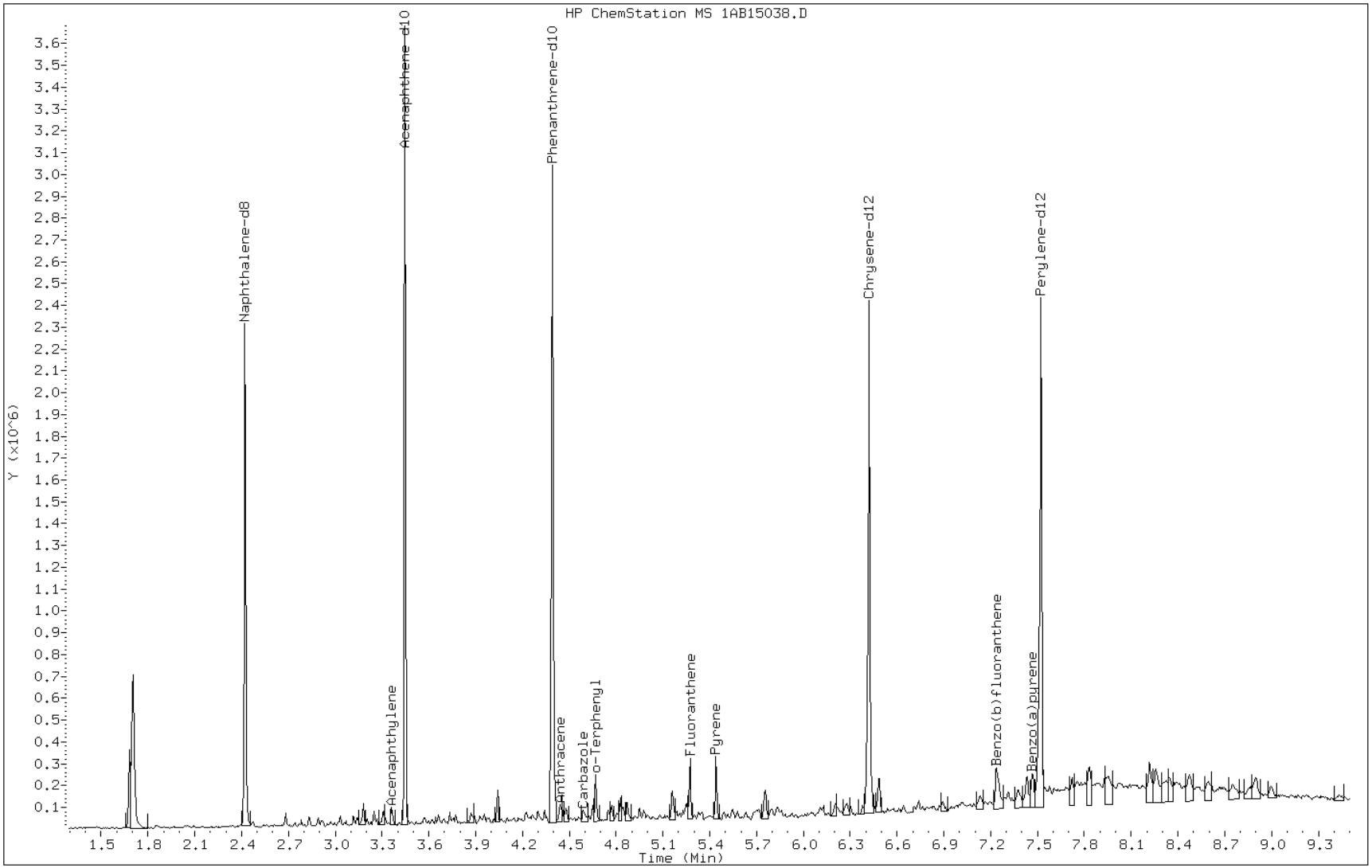
Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD

Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a

Operator: SCC



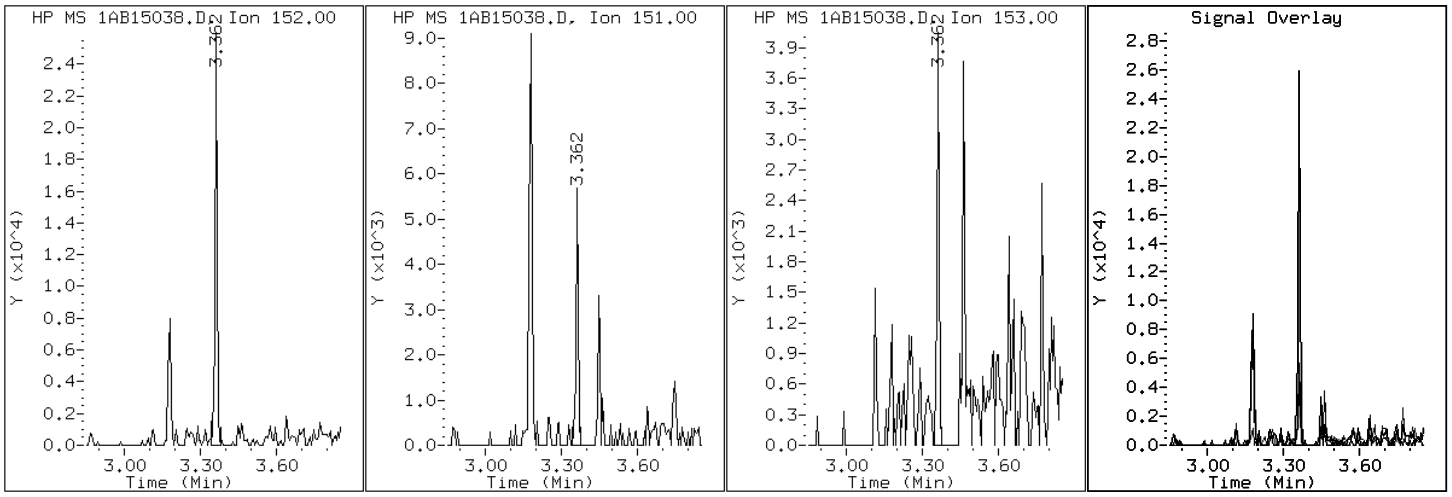
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

5 Acenaphthylene



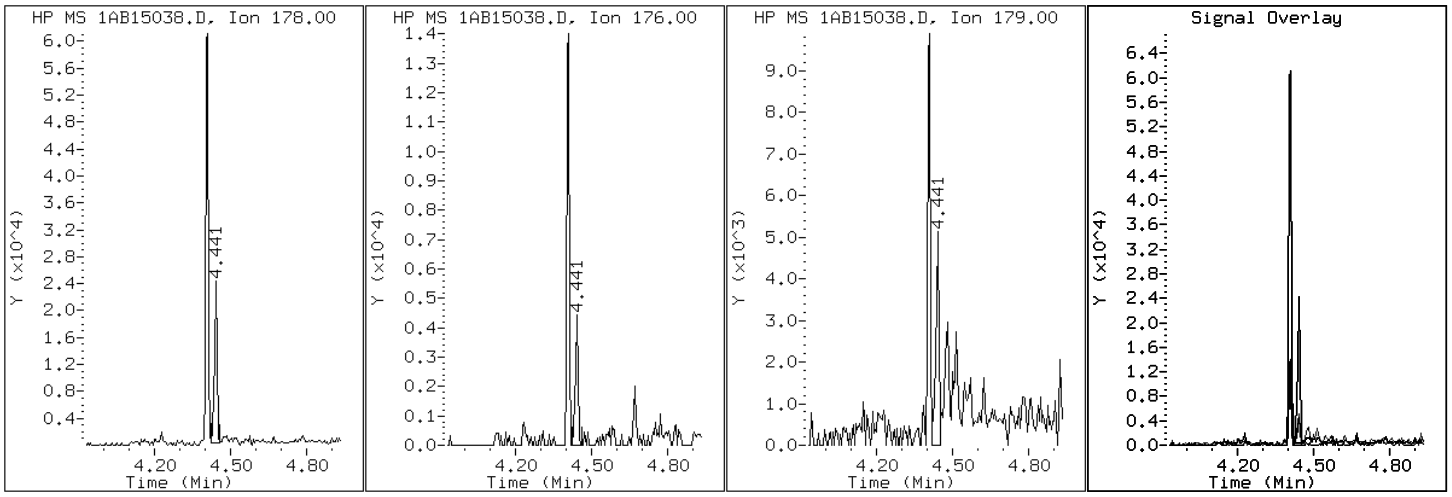
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

12 Anthracene



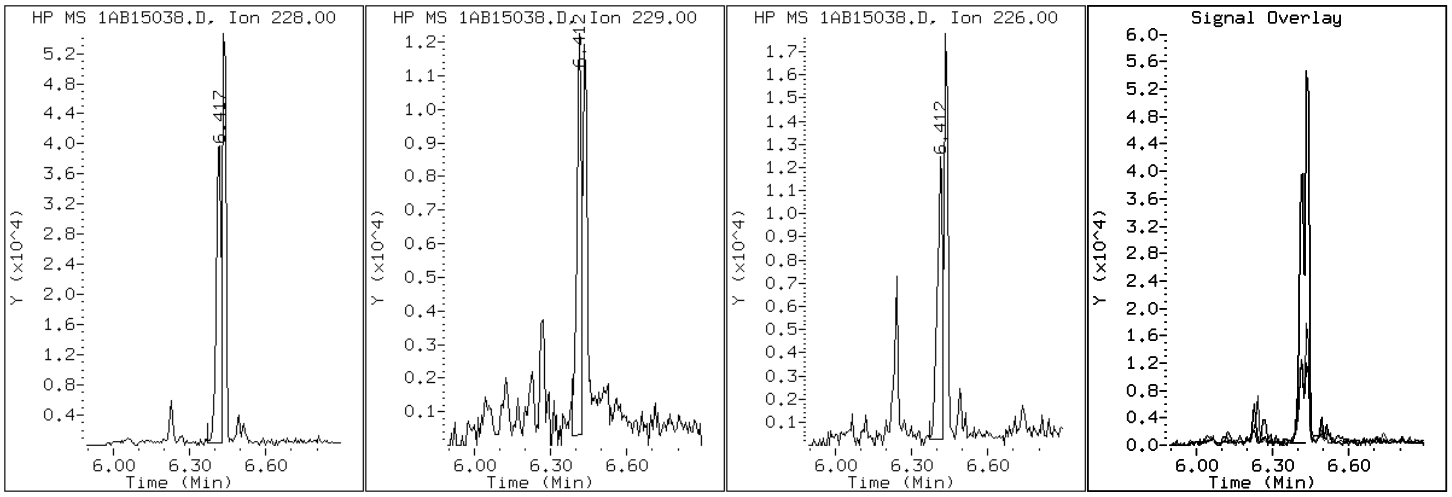
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

17 Benzo(a)anthracene



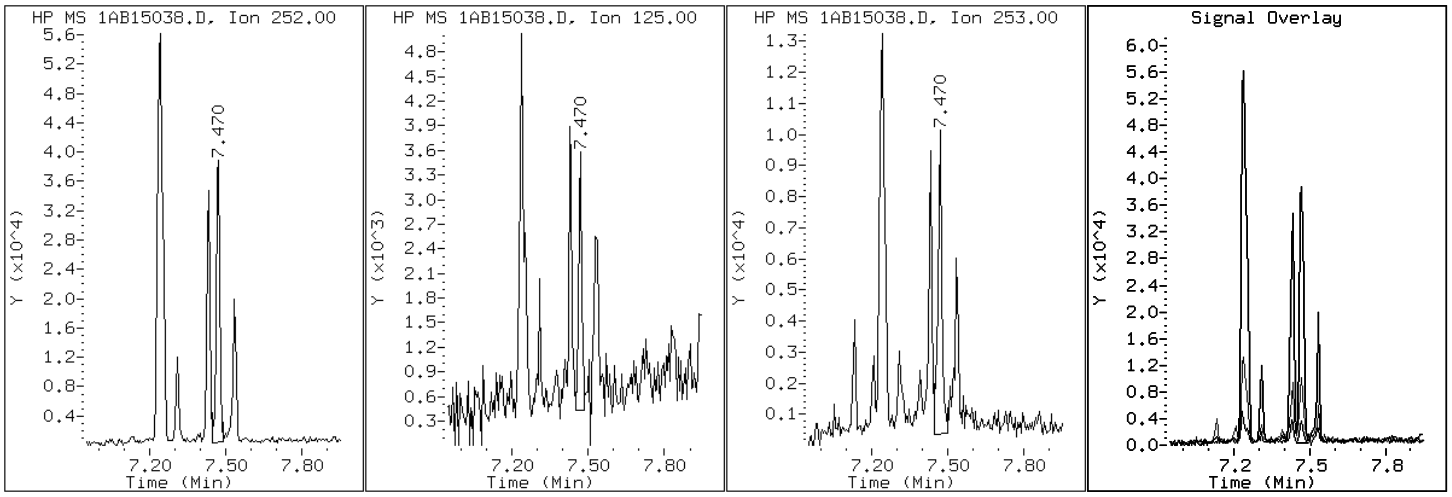
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

22 Benzo(a)pyrene



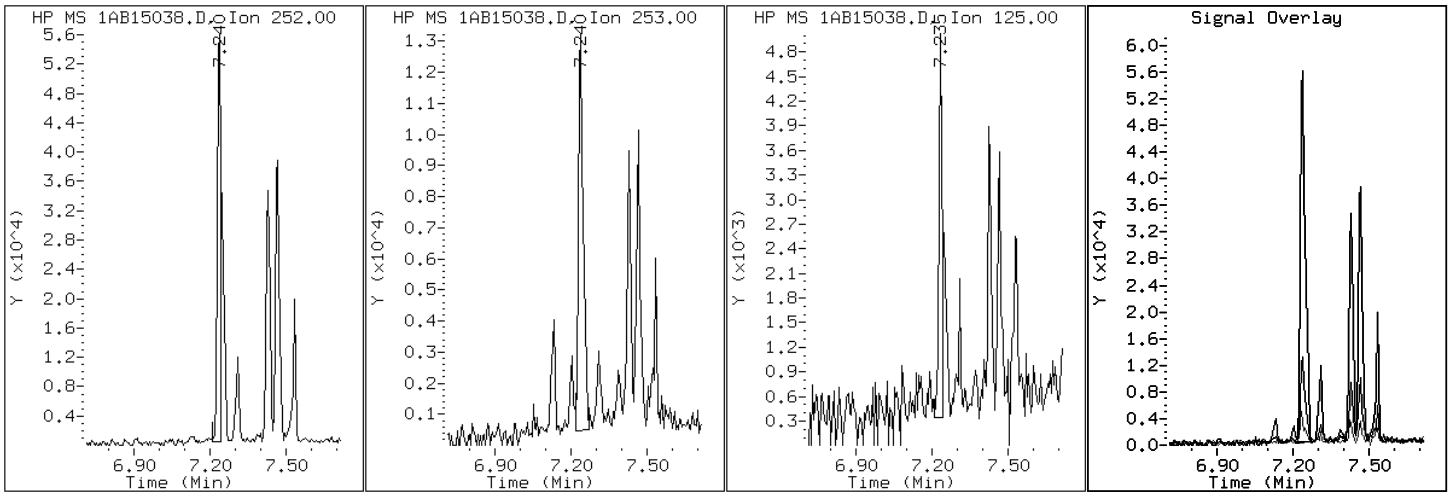
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

20 Benzo(b)fluoranthene



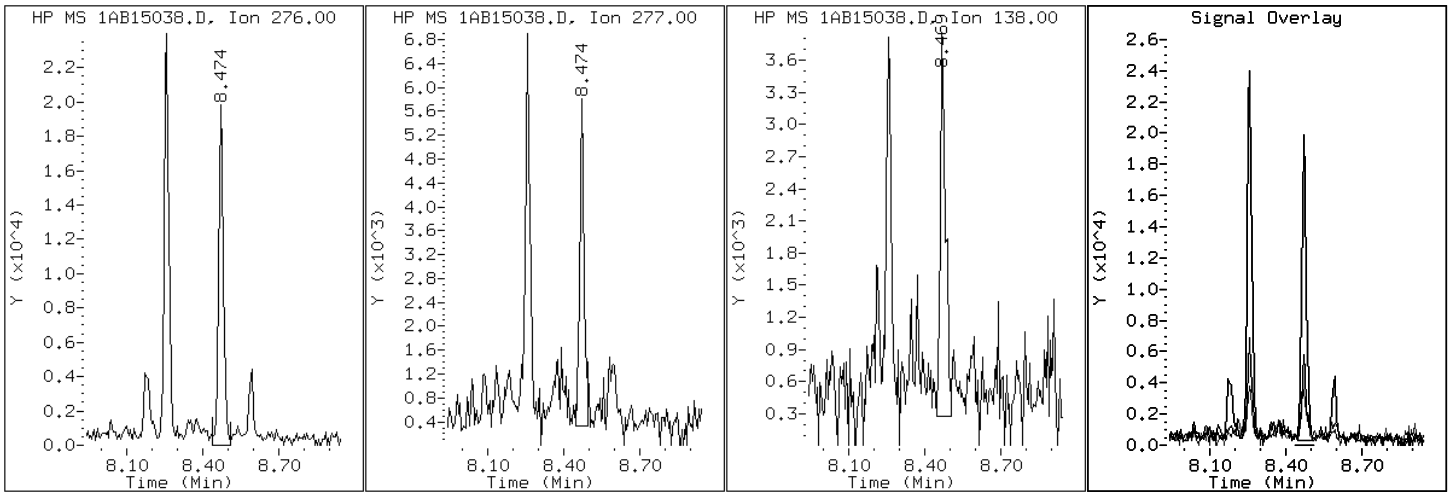
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

26 Benzo(g,h,i)perylene



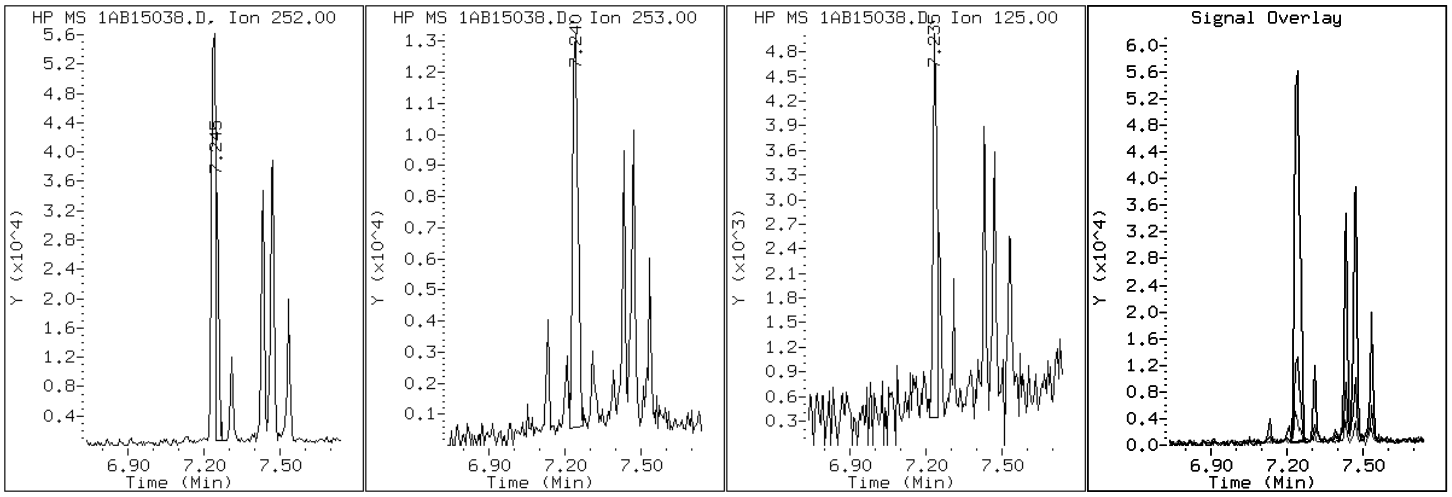
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

21 Benzo(k)fluoranthene



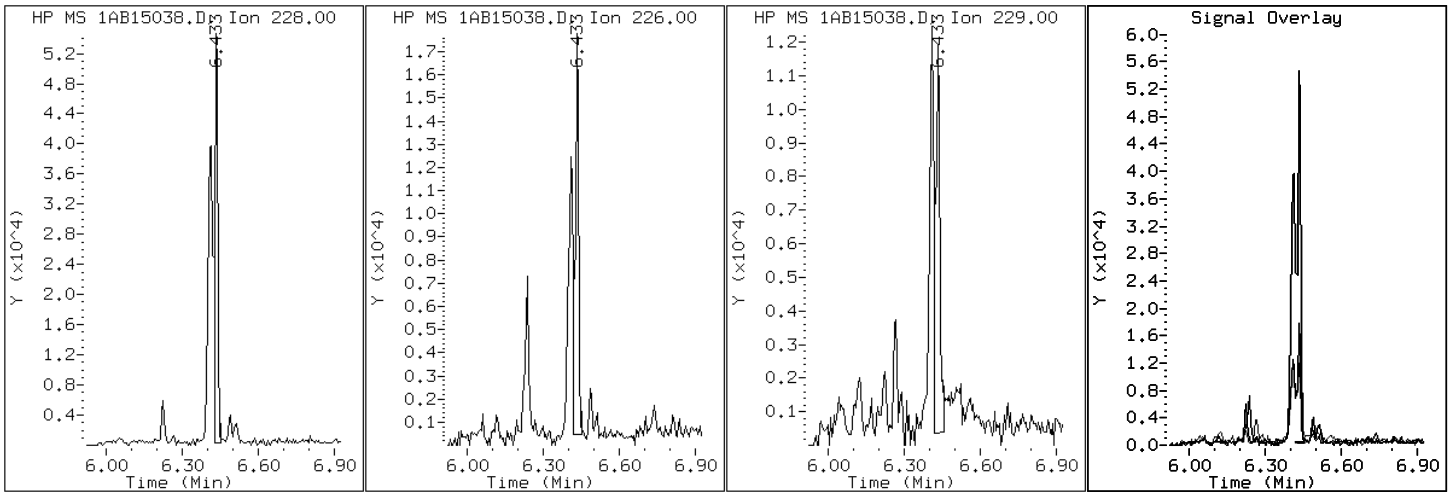
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

19 Chrysene



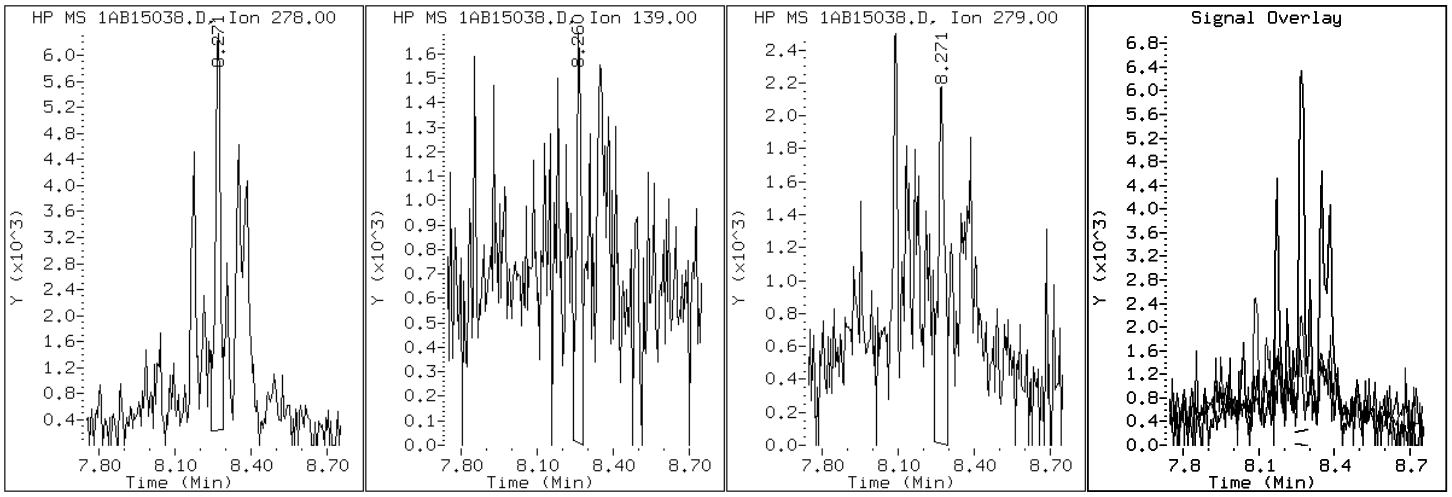
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

25 Dibenzo(a,h)anthracene



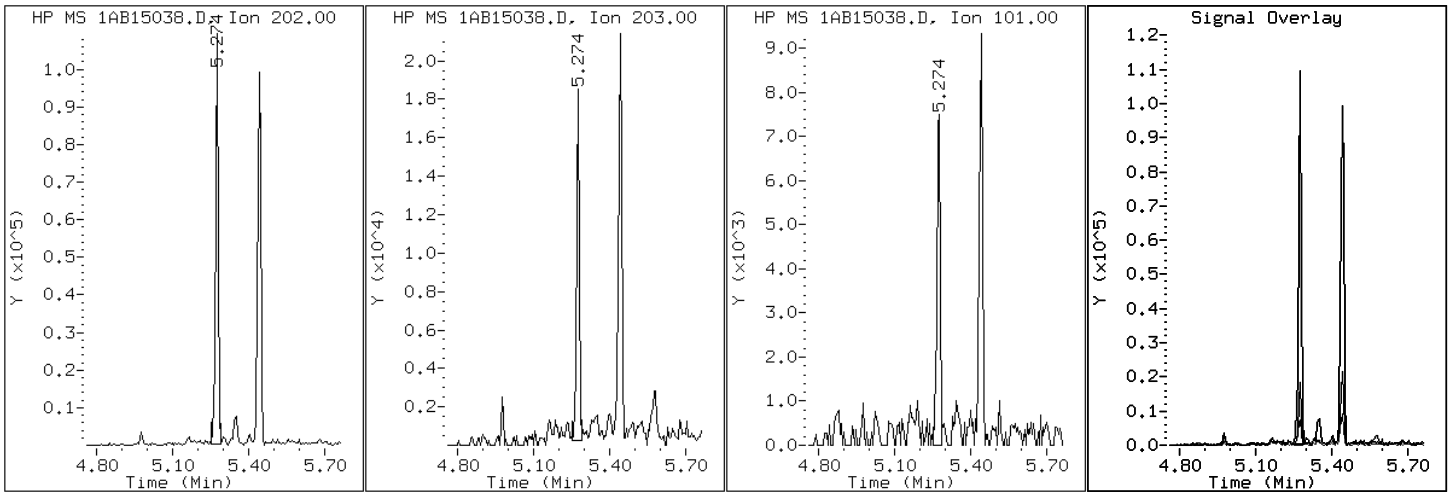
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

15 Fluoranthene



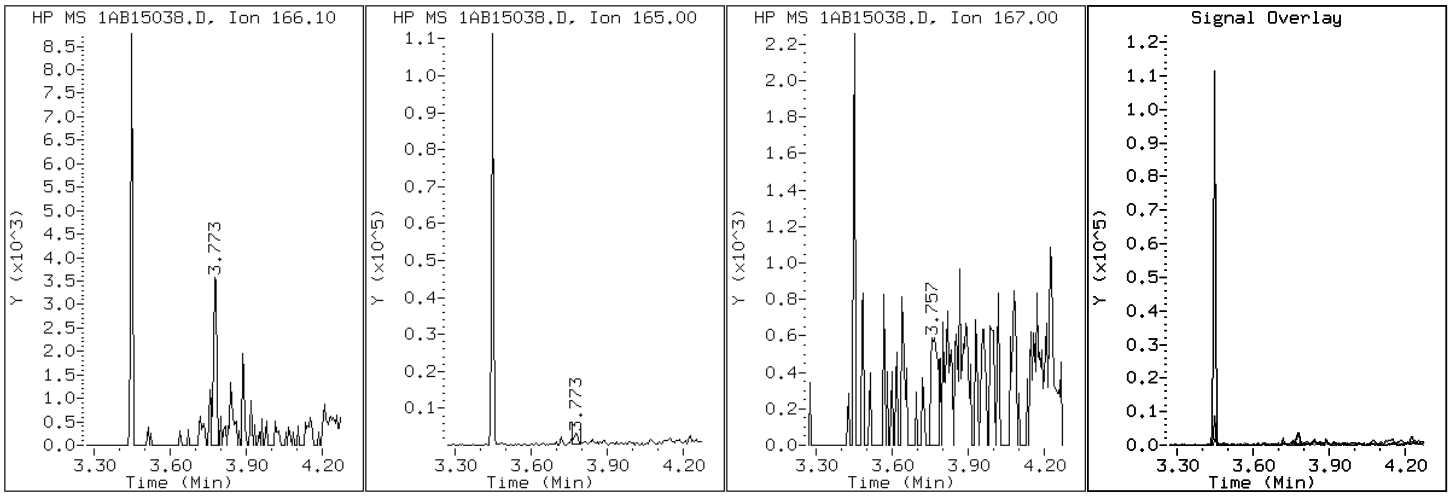
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

9 Fluorene



Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

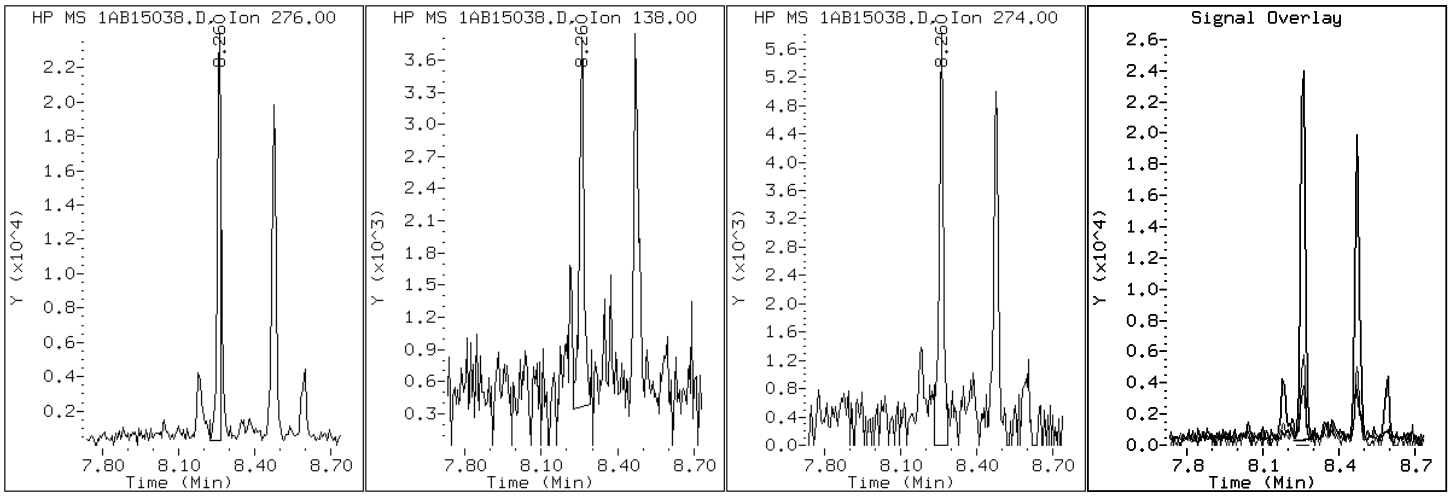
Client ID: CV0005T-CSD

Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a

Operator: SCC

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



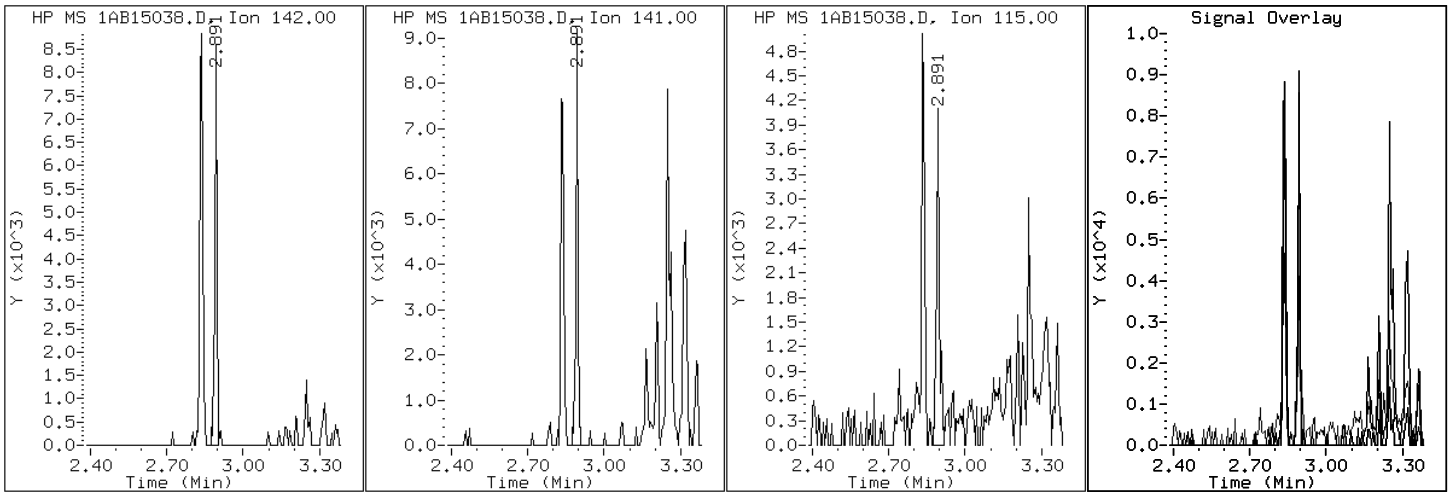
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

4 1-Methylnaphthalene



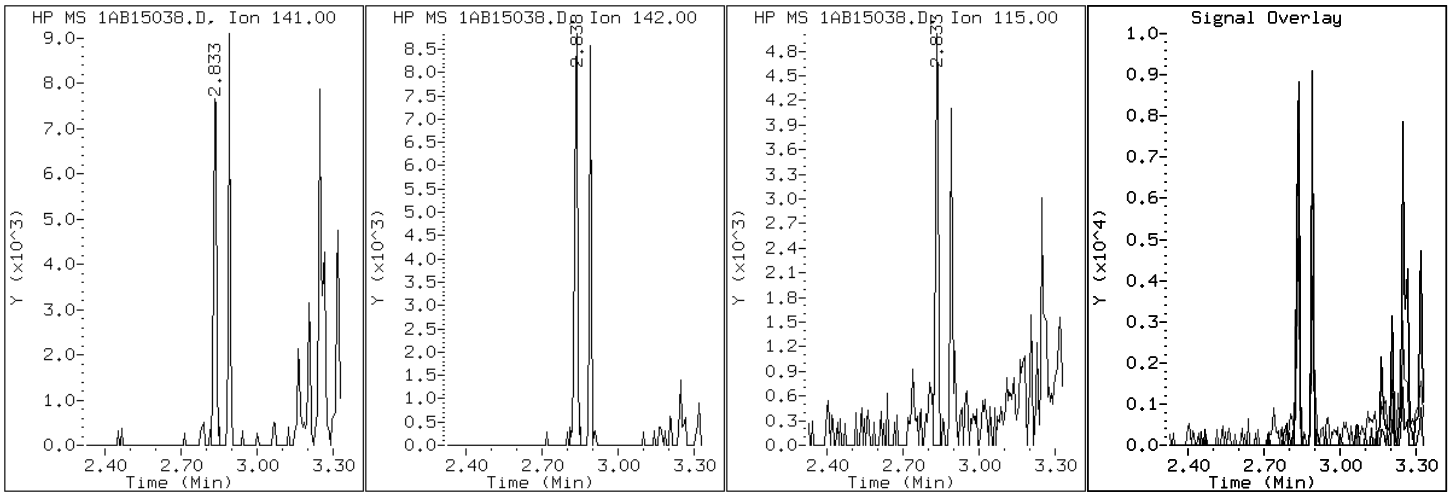
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

3 2-Methylnaphthalene



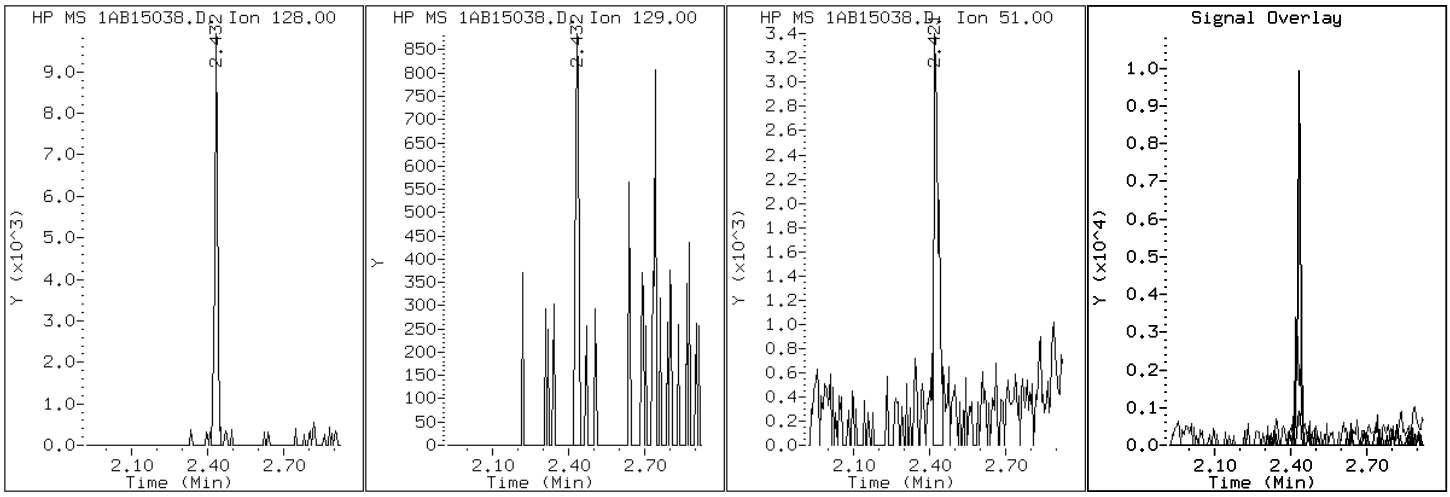
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

2 Naphthalene



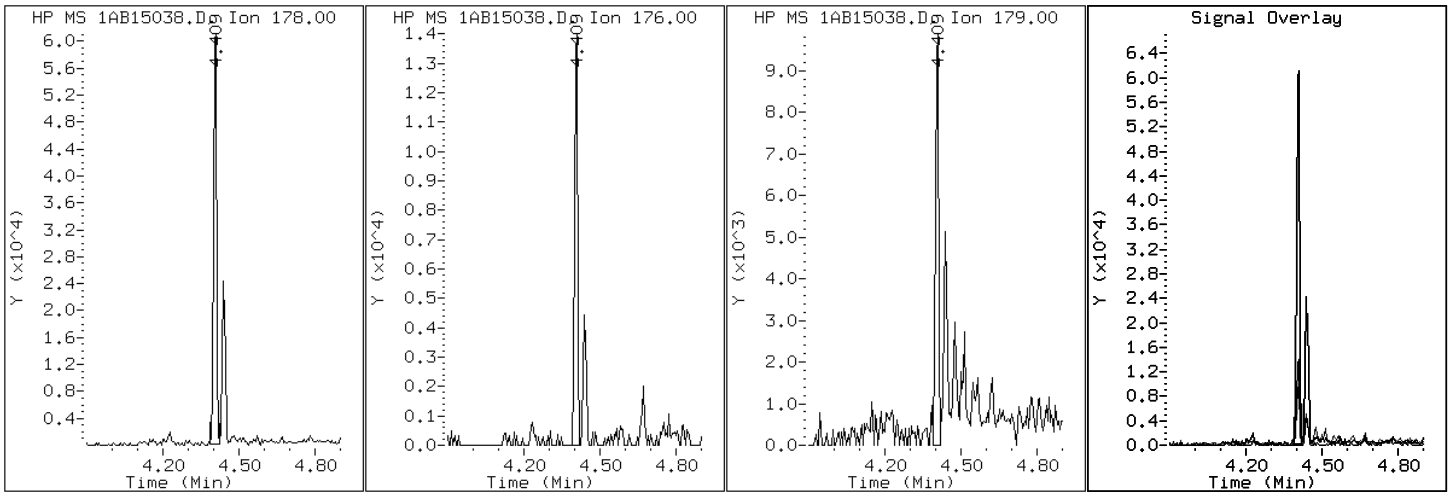
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

11 Phenanthrene



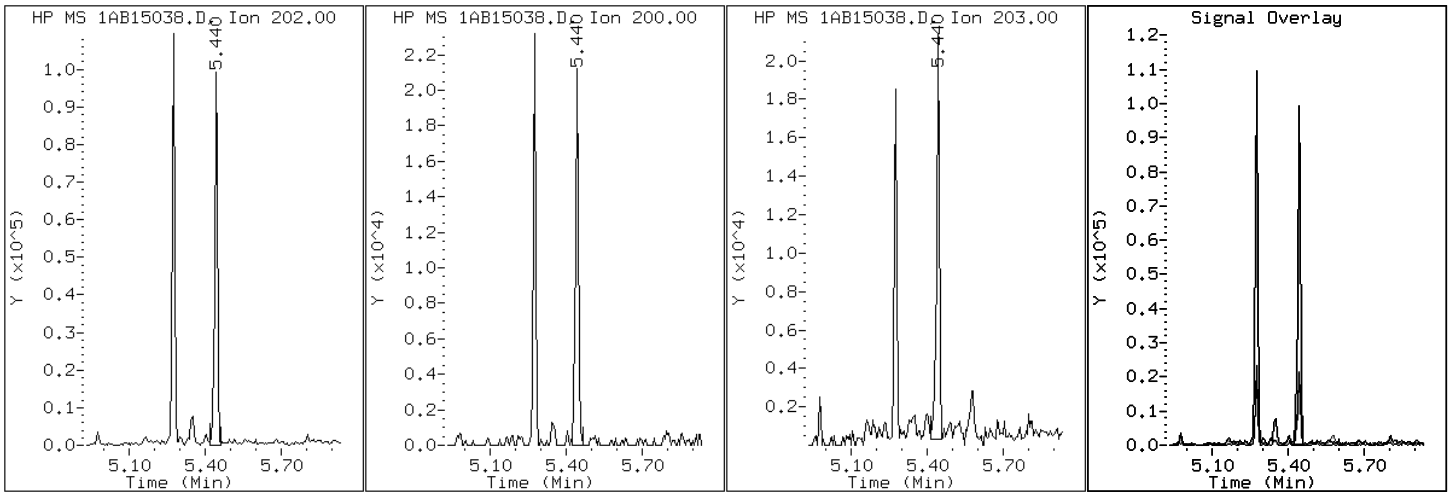
Data File: 1AB15038.D

Date: 15-FEB-2013 23:25

Client ID: CV0005T-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-29-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15038.D
Inj. Date and Time: 15-FEB-2013 23:25
Instrument ID: BSMA5973.i
Client ID: CV0005T-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

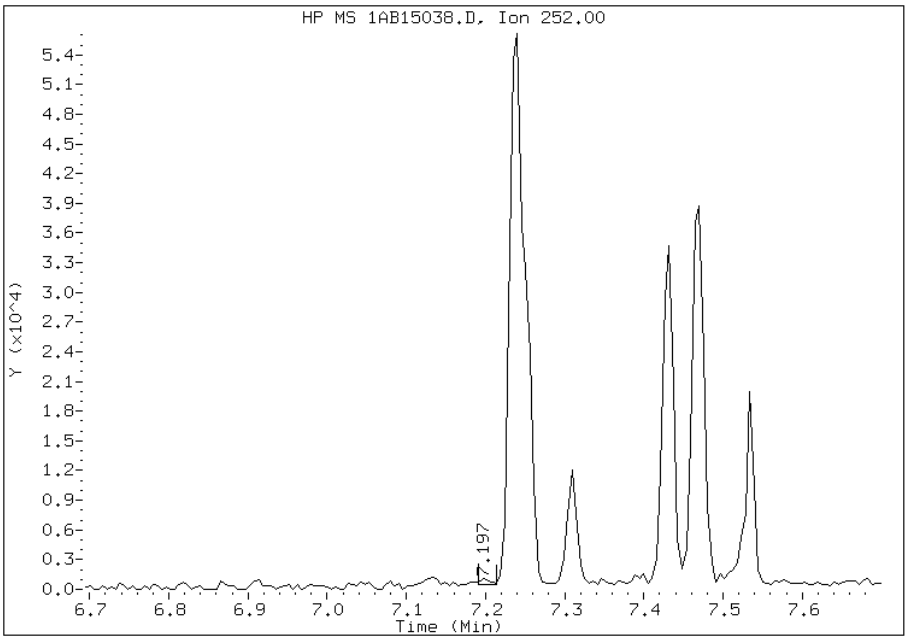
Processing Integration Results

RT: 7.20

Response: 504

Amount: 0

Conc: 8



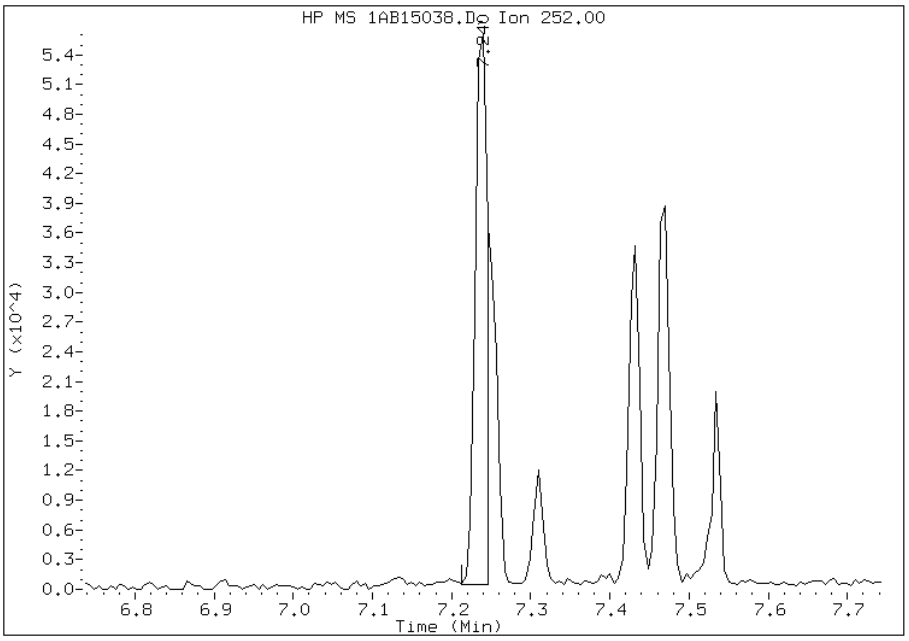
Manual Integration Results

RT: 7.24

Response: 57647

Amount: 2

Conc: 875



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15038.D
Inj. Date and Time: 15-FEB-2013 23:25
Instrument ID: BSMA5973.i
Client ID: CV0005T-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

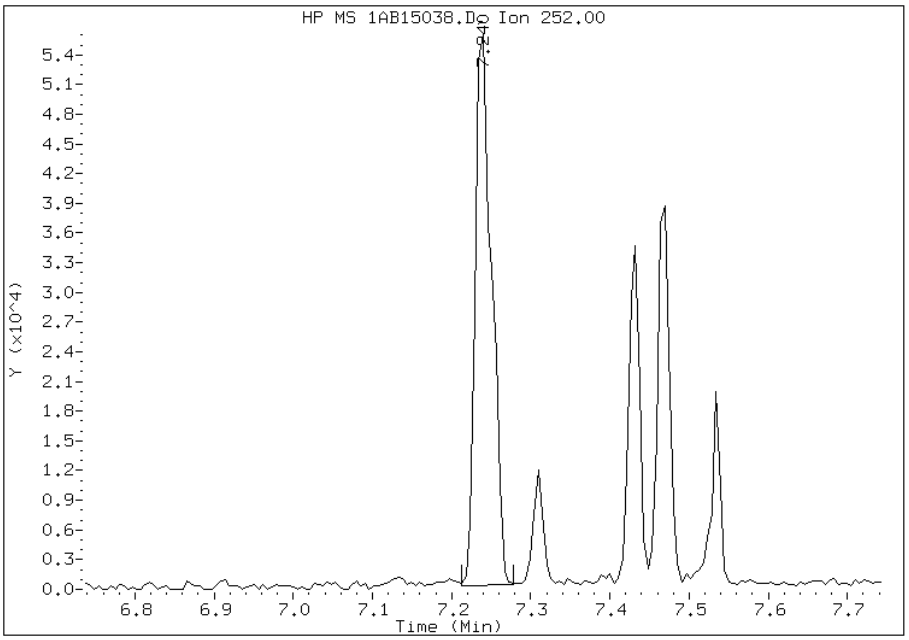
Processing Integration Results

RT: 7.24

Response: 79141

Amount: 3

Conc: 1150



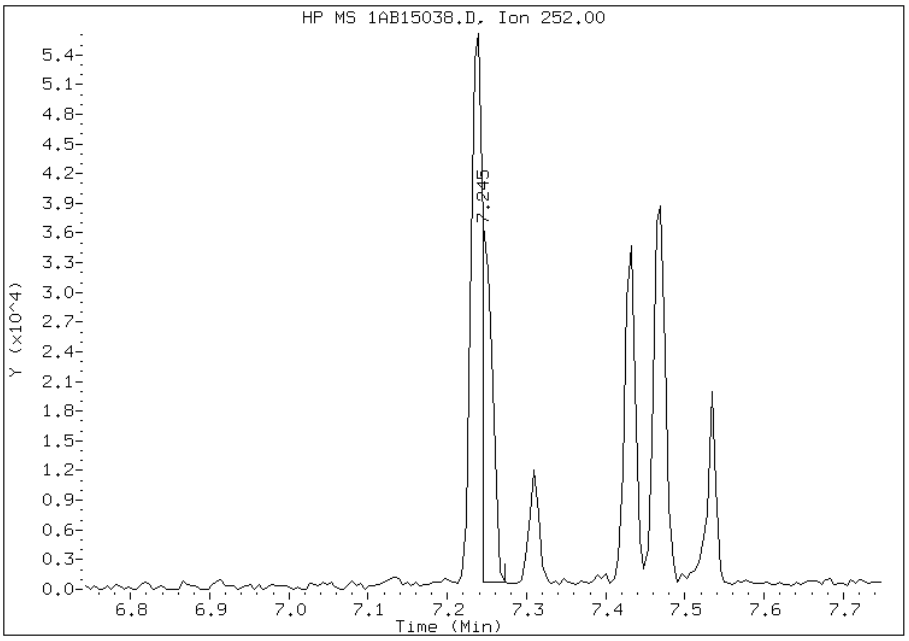
Manual Integration Results

RT: 7.25

Response: 32666

Amount: 1

Conc: 474



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15038.D
Inj. Date and Time: 15-FEB-2013 23:25
Instrument ID: BSMA5973.i
Client ID: CV0005T-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

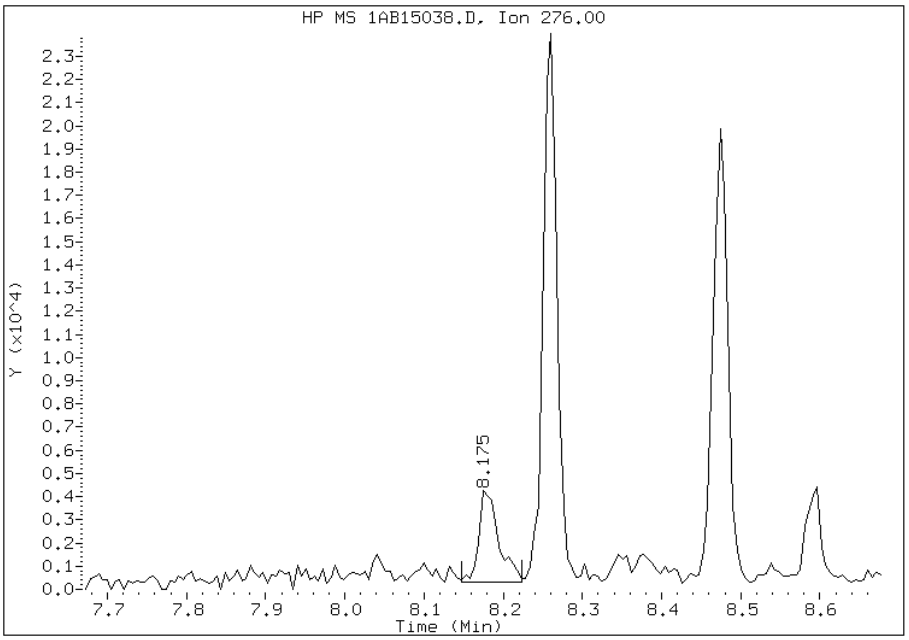
Processing Integration Results

RT: 8.17

Response: 6839

Amount: 0

Conc: 139



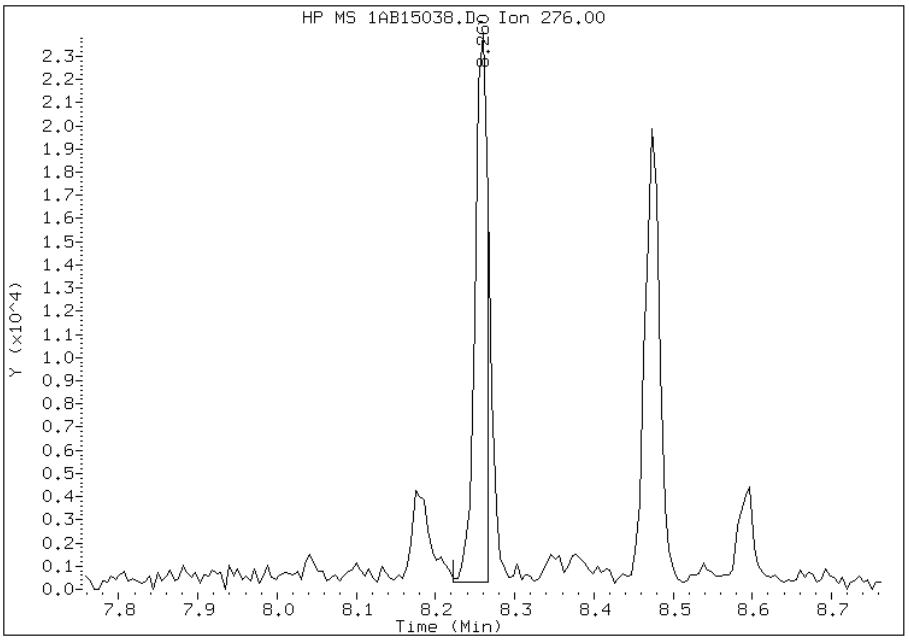
Manual Integration Results

RT: 8.26

Response: 25465

Amount: 1

Conc: 516



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005U-CS | Lab Sample ID: 680-87318-30

Matrix: Solid | Lab File ID: 1AB15039.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 14:32

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.12(g) | Date Analyzed: 02/15/2013 23:40

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

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

% Moisture: 25.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	360		210	27
120-12-7	Anthracene	440		45	22
56-55-3	Benzo[a]anthracene	840		42	21
50-32-8	Benzo[a]pyrene	780		55	28
205-99-2	Benzo[b]fluoranthene	1000		65	32
191-24-2	Benzo[g,h,i]perylene	680		110	23
207-08-9	Benzo[k]fluoranthene	420		42	19
218-01-9	Chrysene	750		48	24
53-70-3	Dibenz(a,h)anthracene	220		110	22
206-44-0	Fluoranthene	1200		110	21
86-73-7	Fluorene	56	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	720		110	38
90-12-0	1-Methylnaphthalene	180	J	210	23
91-57-6	2-Methylnaphthalene	220		210	38
91-20-3	Naphthalene	160	J	210	23
85-01-8	Phenanthrene	580		42	21
129-00-0	Pyrene	870		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15039.D
Lab Smp Id: 680-87318-A-30-A Client Smp ID: CV0005U-CS
Inj Date : 15-FEB-2013 23:40
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-30-a
Misc Info : 680-87318-A-30-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 36
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	25.227	% 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	2.422	2.415	(1.000)	696003	40.0000	
* 6 Acenaphthene-d10	164	3.448	3.441	(1.000)	483583	40.0000	
* 10 Phenanthrene-d10	188	4.394	4.386	(1.000)	743047	40.0000	
$ 14 o-Terphenyl	230	4.672	4.664	(1.063)	24482	2.26751	802.2591
* 18 Chrysene-d12	240	6.424	6.411	(1.000)	661453	40.0000	
* 23 Perylene-d12	264	7.524	7.501	(1.000)	789419	40.0000	
2 Naphthalene	128	2.433	2.426	(1.004)	7767	0.45976	162.6657(Q)
3 2-Methylnaphthalene	141	2.834	2.832	(1.170)	5618	0.62076	219.6272
4 1-Methylnaphthalene	142	2.893	2.885	(1.194)	5287	0.51606	182.5868
5 Acenaphthylene	152	3.363	3.355	(0.975)	21593	1.01126	357.7884
9 Fluorene	166	3.774	3.772	(1.094)	2306	0.15869	56.1437
11 Phenanthrene	178	4.404	4.402	(1.002)	33007	1.62689	575.6053
12 Anthracene	178	4.442	4.434	(1.011)	25954	1.25471	443.9258
13 Carbazole	167	4.597	4.589	(1.046)	6637	0.37431	132.4345

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.275	5.262	(1.201)	65433	3.25300	1150.9323
16 Pyrene	202	5.441	5.433	(0.847)	58588	2.45258	867.7366
17 Benzo(a)anthracene	228	6.413	6.395	(0.998)	46622	2.36060	835.1942
19 Chrysene	228	6.434	6.427	(1.002)	40650	2.11160	747.0959
20 Benzo(b)fluoranthene	252	7.236	7.217	(0.962)	62714	2.84638	1007.0685(M)
21 Benzo(k)fluoranthene	252	7.246	7.239	(0.963)	27257	1.18323	418.6342(QMH)
22 Benzo(a)pyrene	252	7.471	7.452	(0.993)	46009	2.19900	778.0186
24 Indeno(1,2,3-cd)pyrene	276	8.261	8.238	(1.098)	33424	2.02310	715.7849(M)
25 Dibenzo(a,h)anthracene	278	8.267	8.254	(1.099)	10388	0.62895	222.5267
26 Benzo(g,h,i)perylene	276	8.475	8.446	(1.126)	32899	1.92213	680.0614

QC Flag Legend

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

Data File: 1AB15039.D

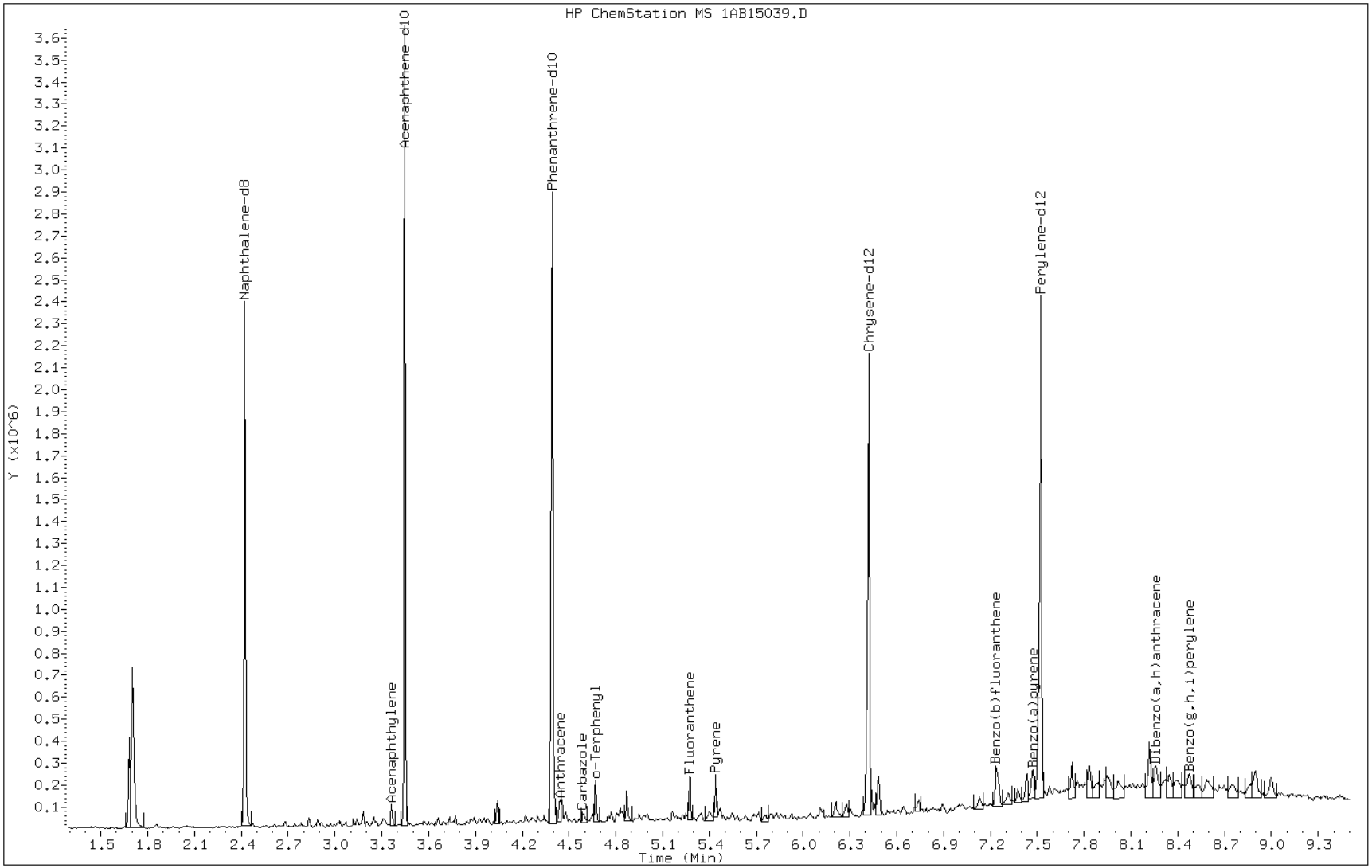
Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a

Operator: SCC



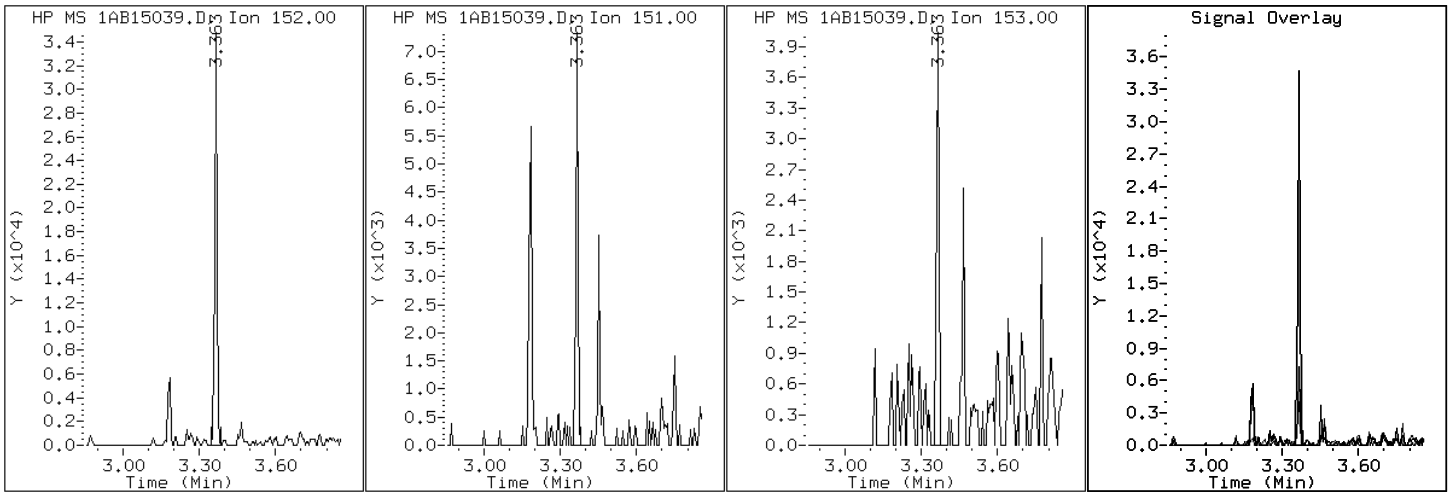
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

5 Acenaphthylene



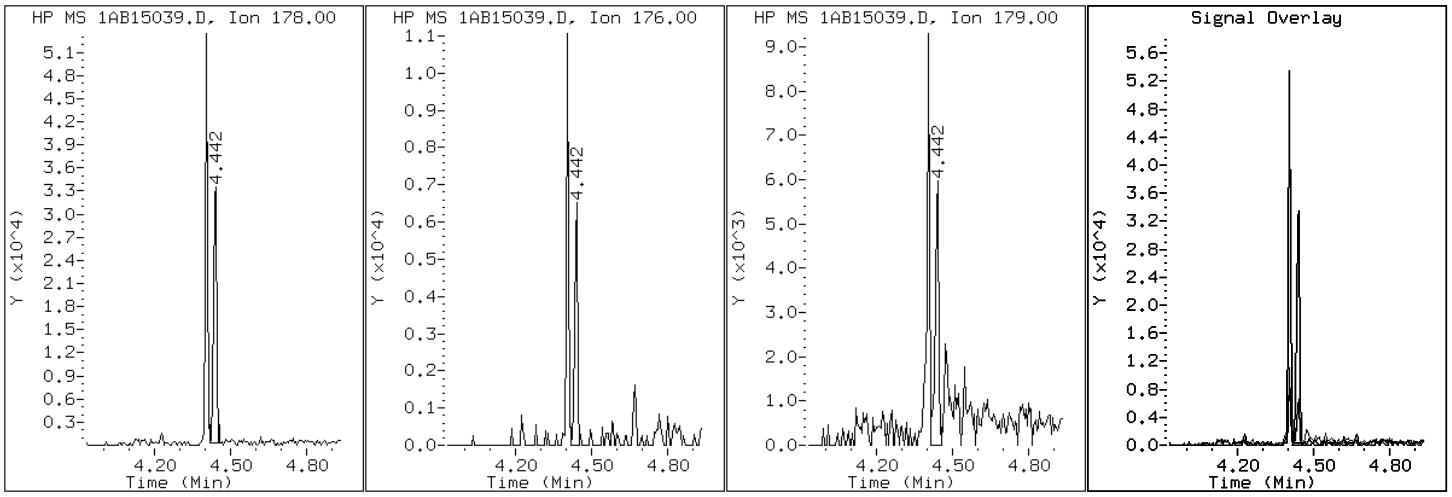
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

12 Anthracene



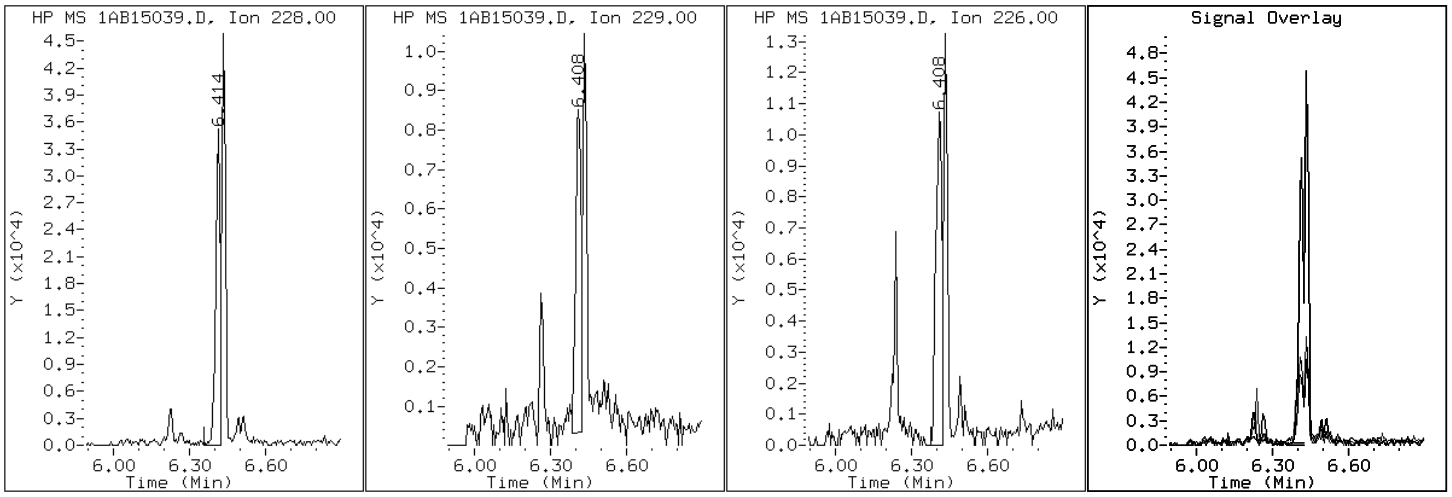
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

17 Benzo(a)anthracene



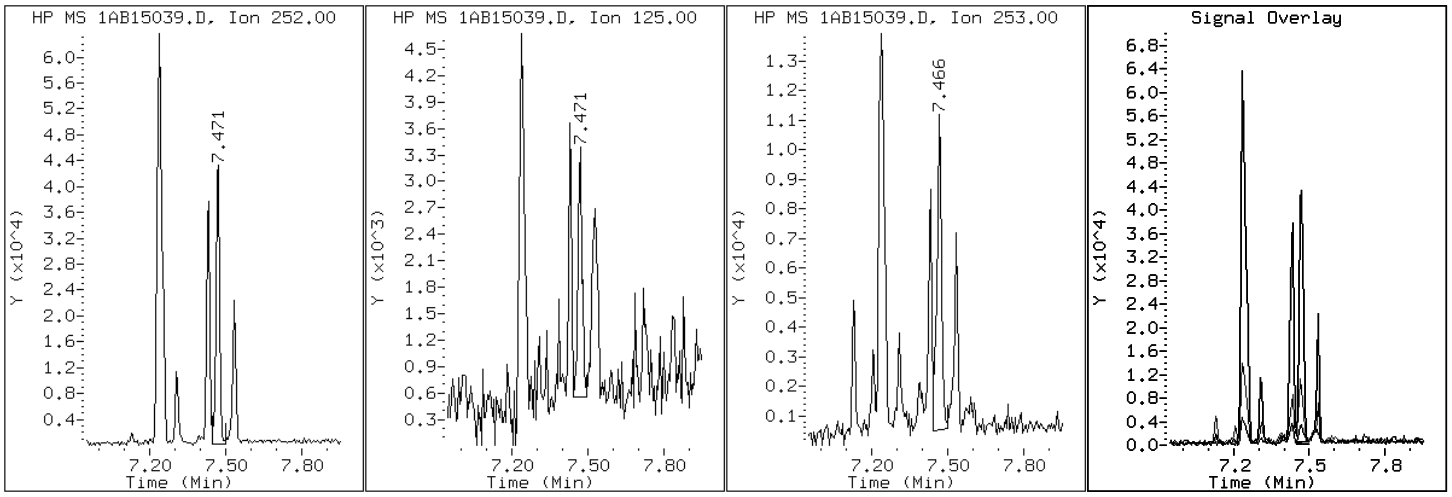
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

22 Benzo(a)pyrene



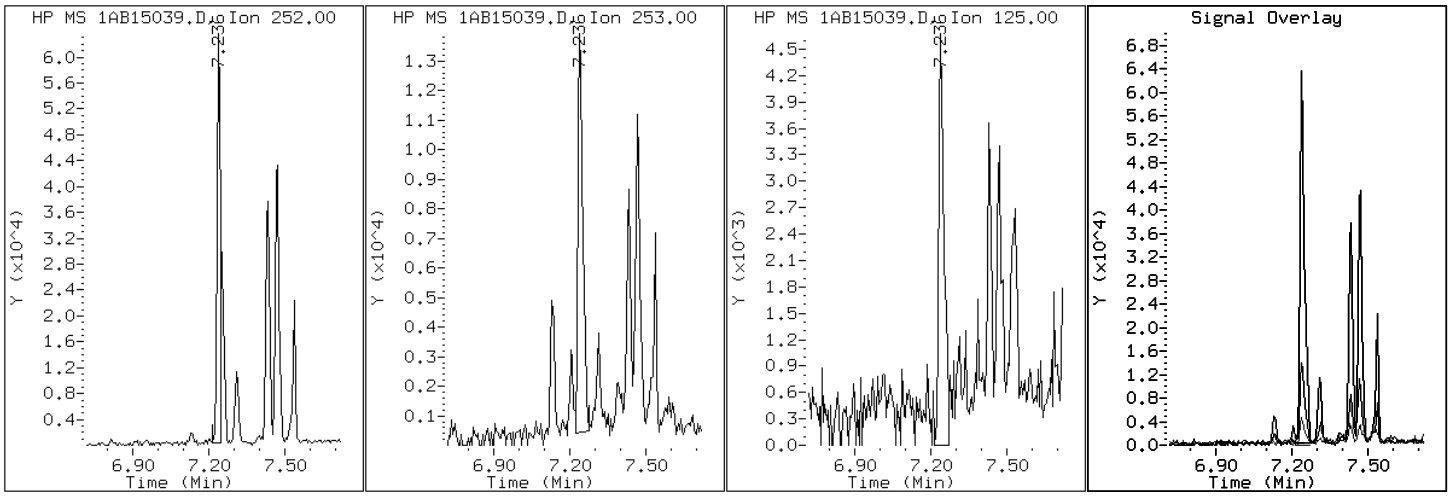
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

20 Benzo(b)fluoranthene



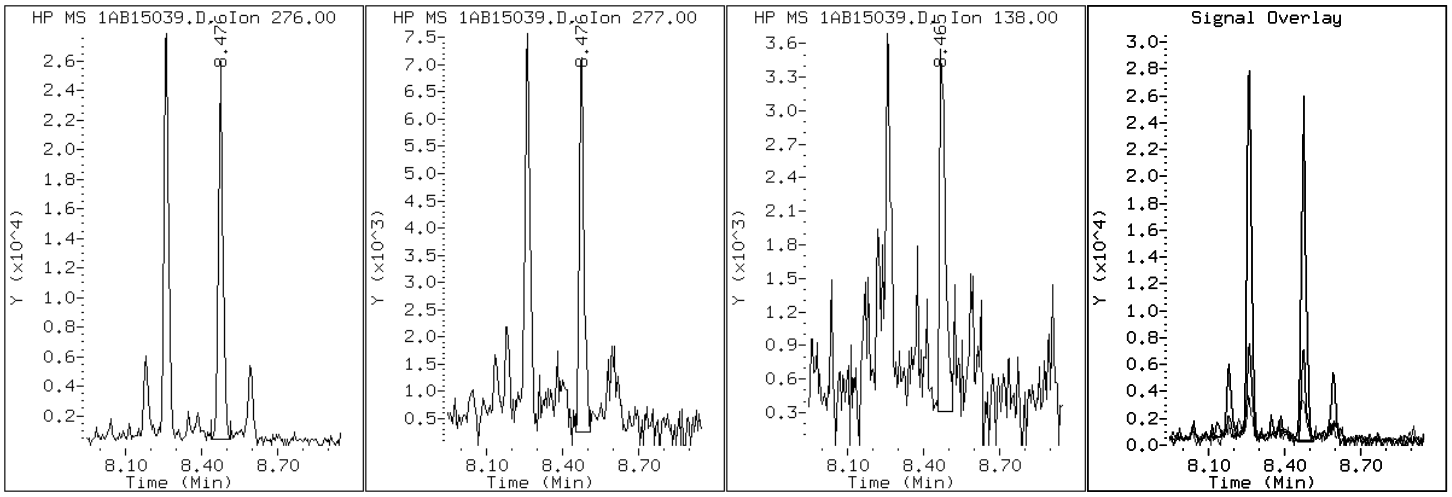
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

26 Benzo(g,h,i)perylene



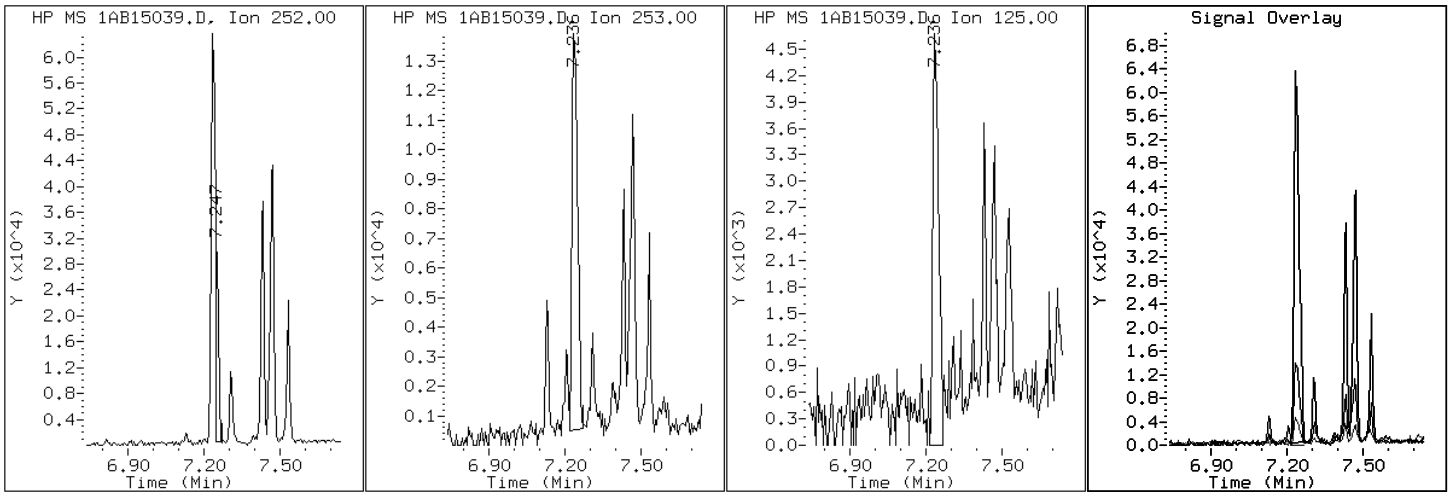
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

21 Benzo(k)fluoranthene



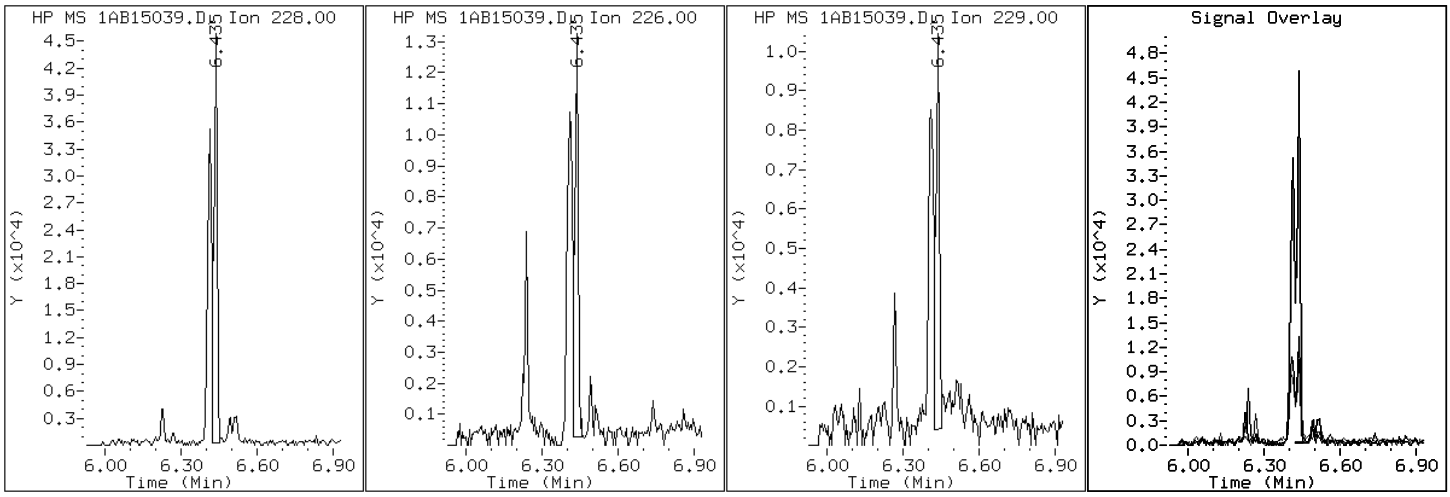
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

19 Chrysene



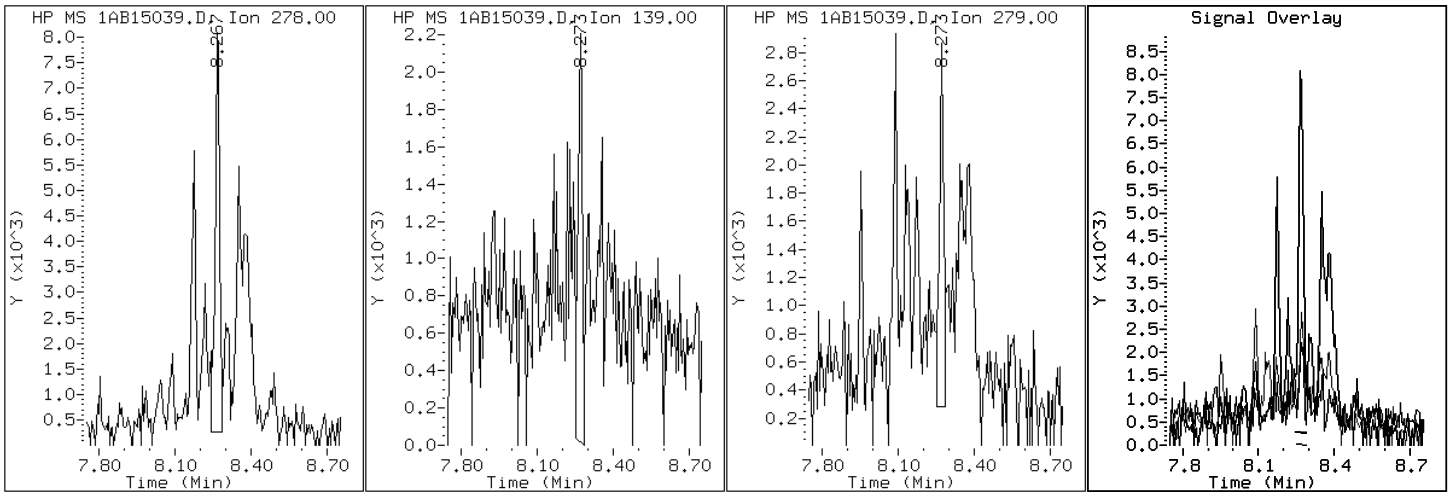
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

25 Dibenzo(a,h)anthracene



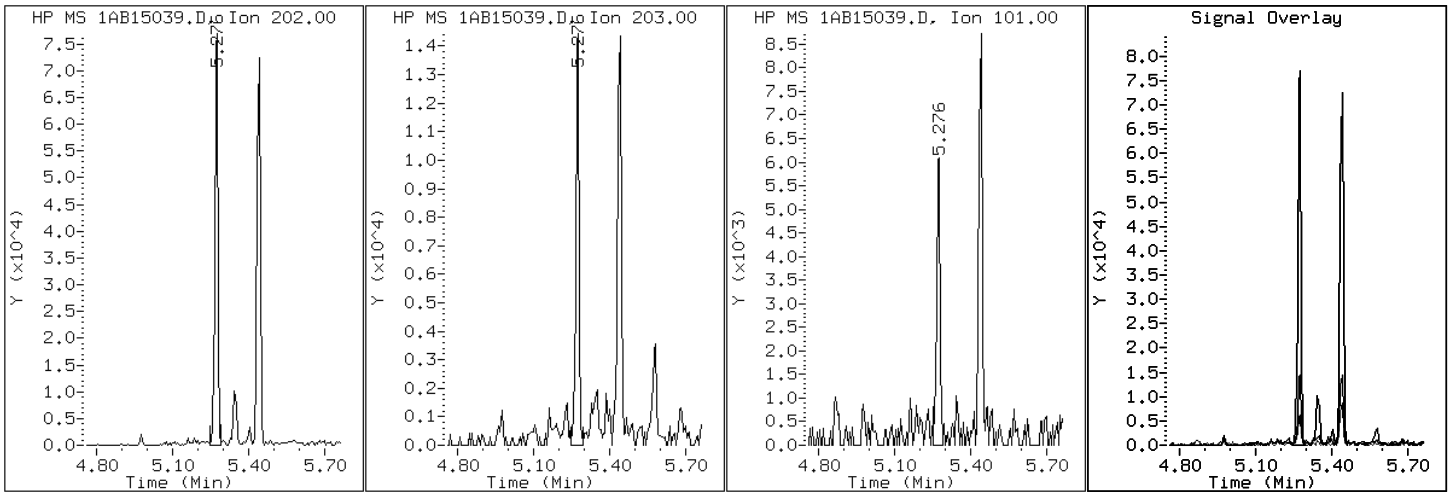
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

15 Fluoranthene



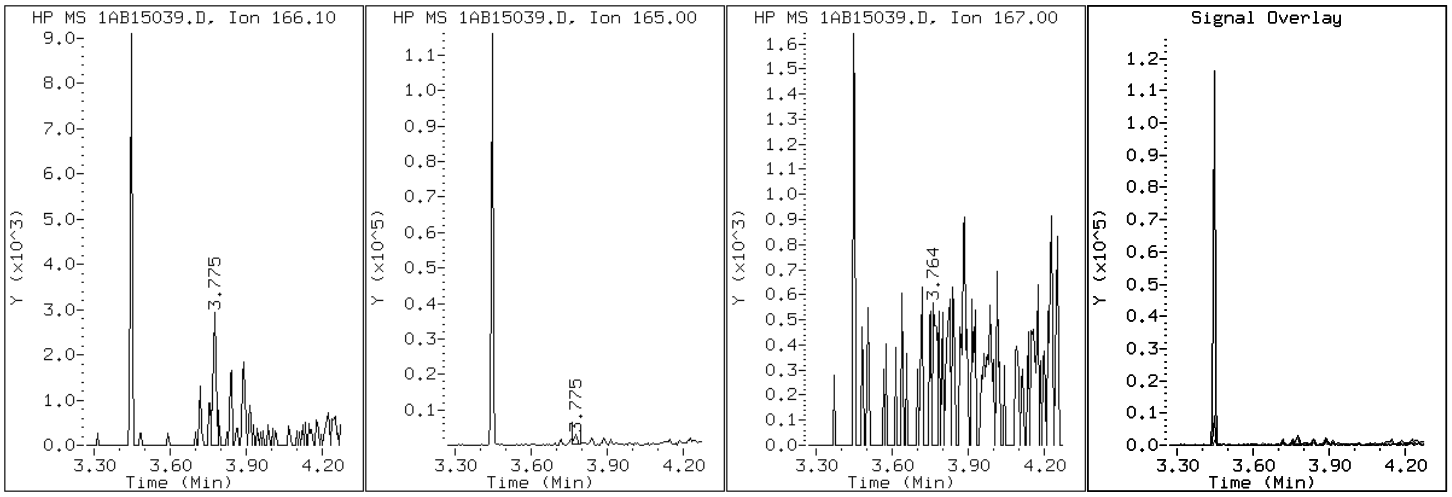
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

9 Fluorene



Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

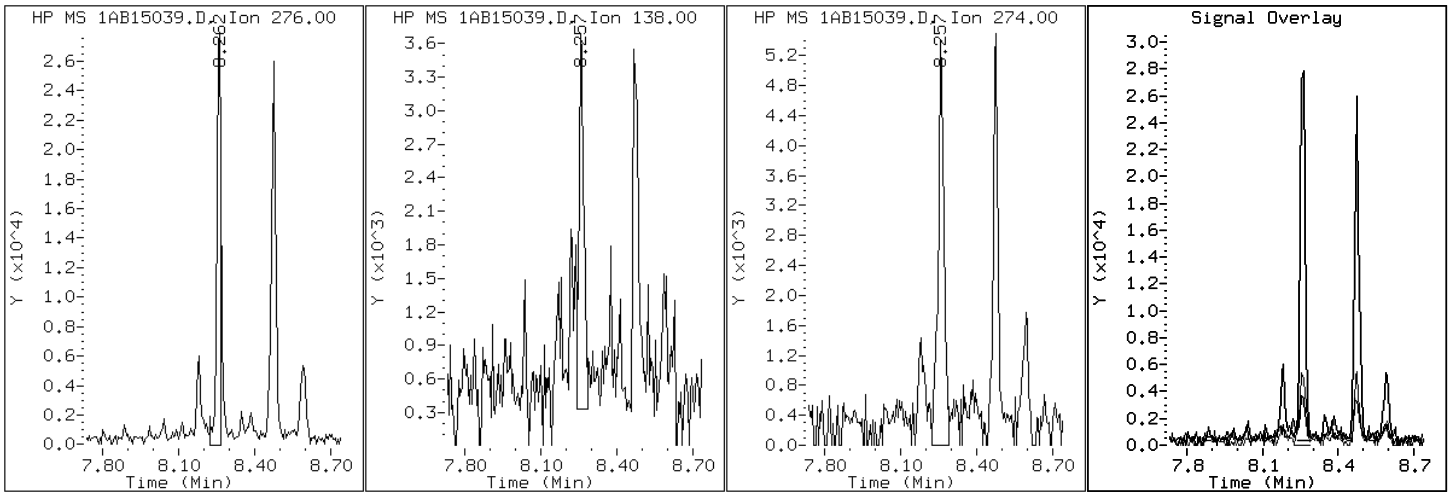
Client ID: CV0005U-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a

Operator: SCC

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



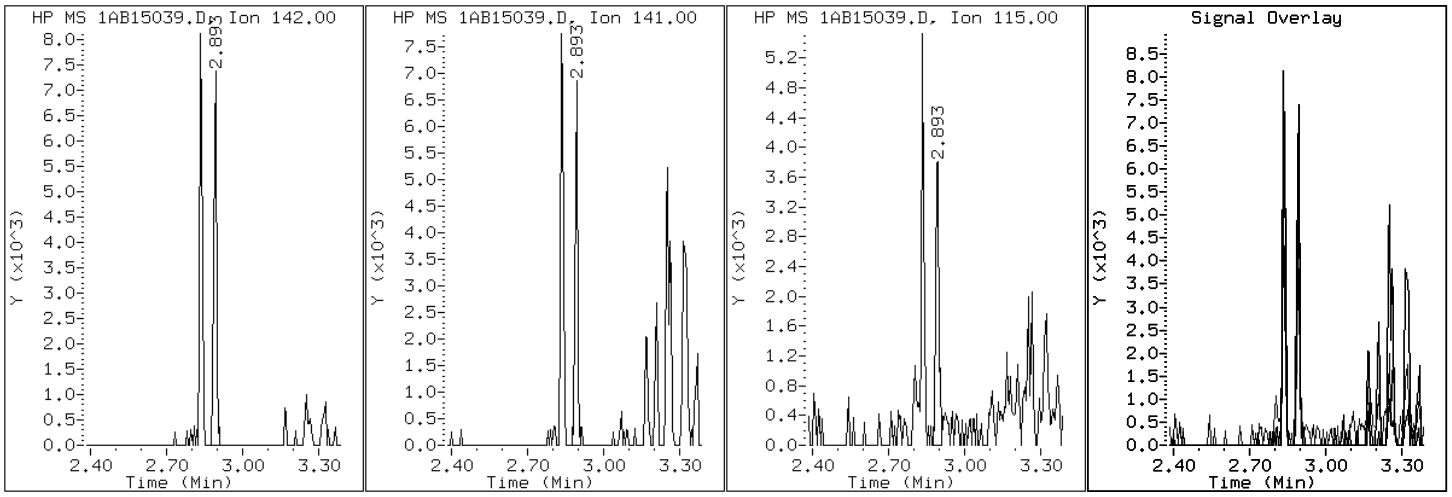
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

4 1-Methylnaphthalene



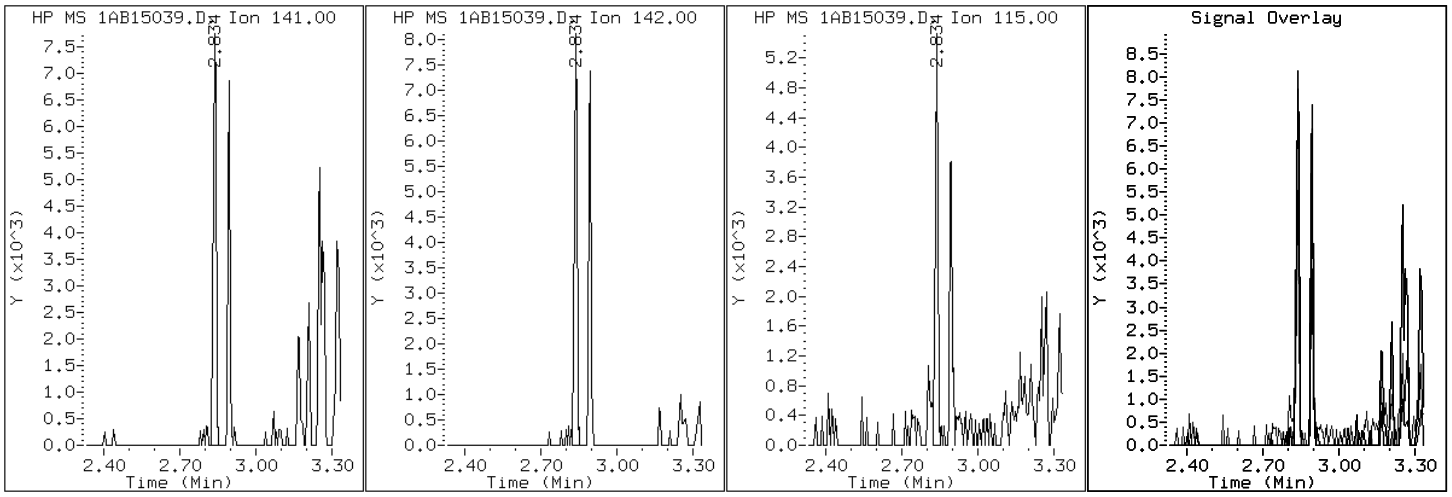
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

3 2-Methylnaphthalene



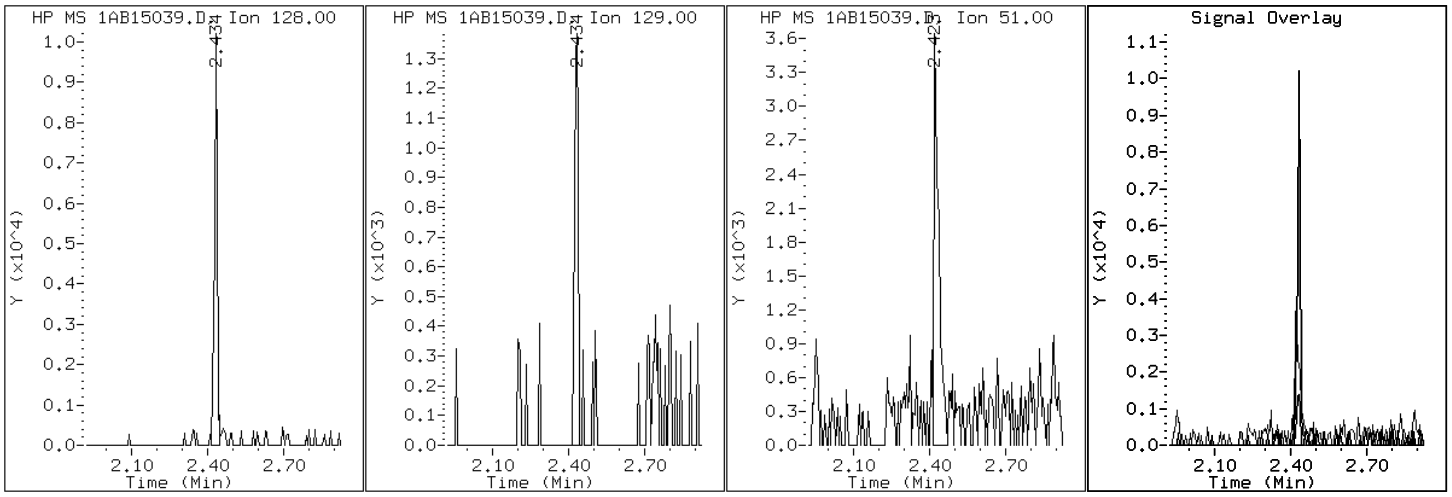
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

2 Naphthalene



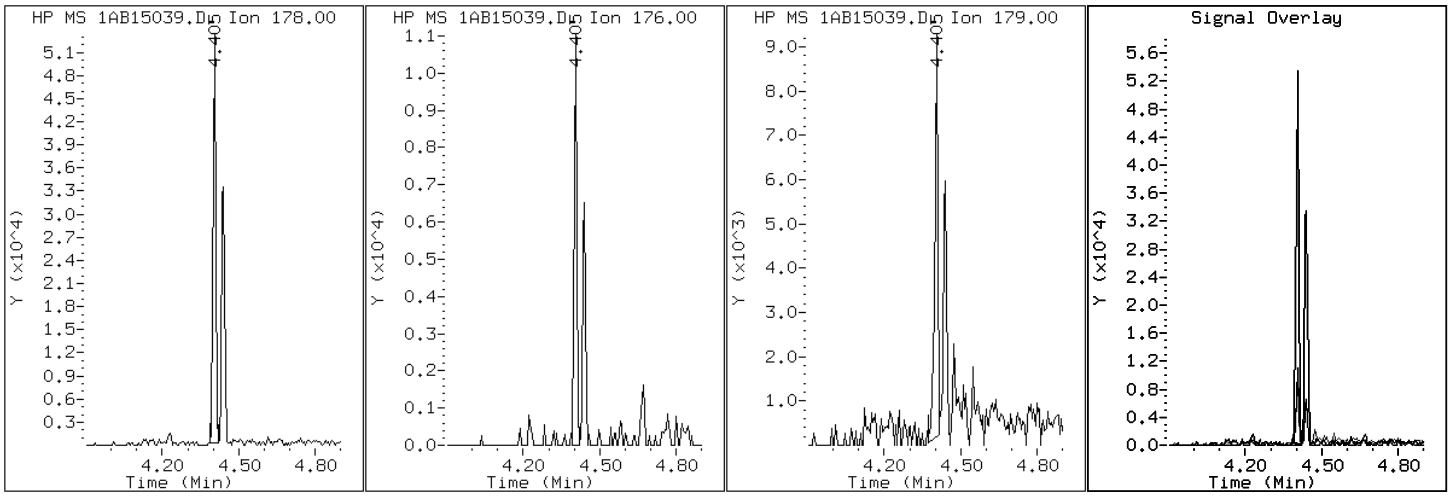
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

11 Phenanthrene



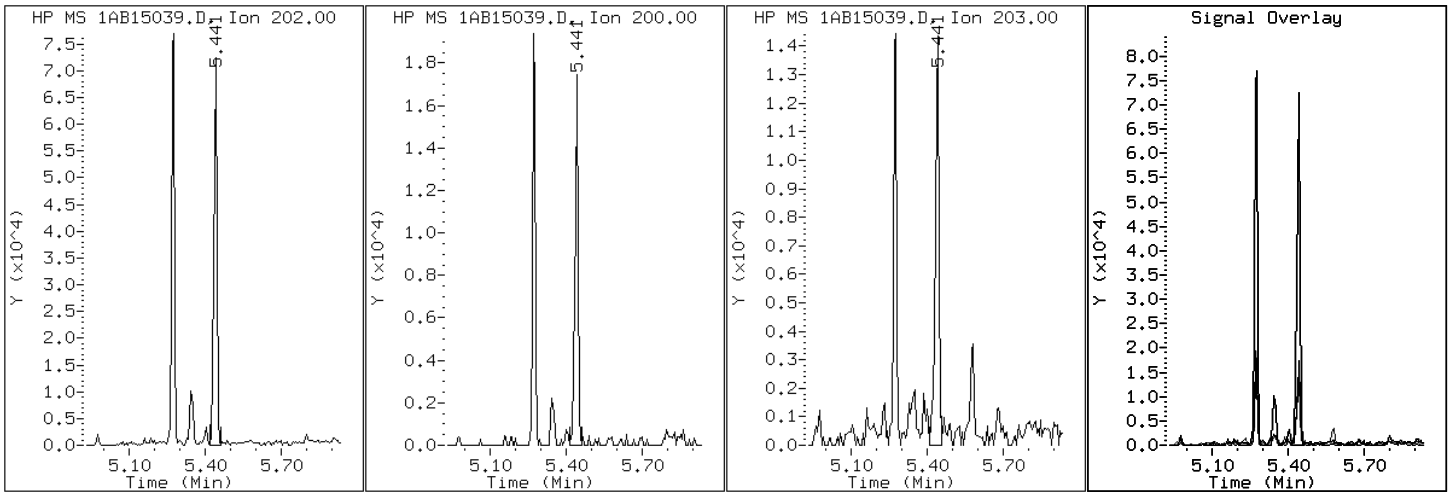
Data File: 1AB15039.D

Date: 15-FEB-2013 23:40

Client ID: CV0005U-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-30-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15039.D
Inj. Date and Time: 15-FEB-2013 23:40
Instrument ID: BSMA5973.i
Client ID: CV0005U-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

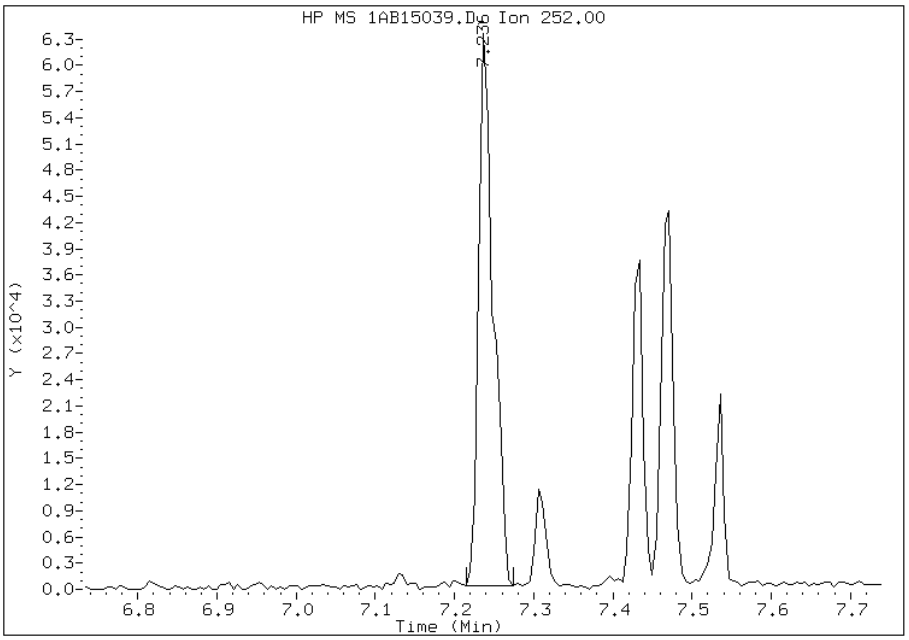
Processing Integration Results

RT: 7.24

Response: 80388

Amount: 4

Conc: 1291



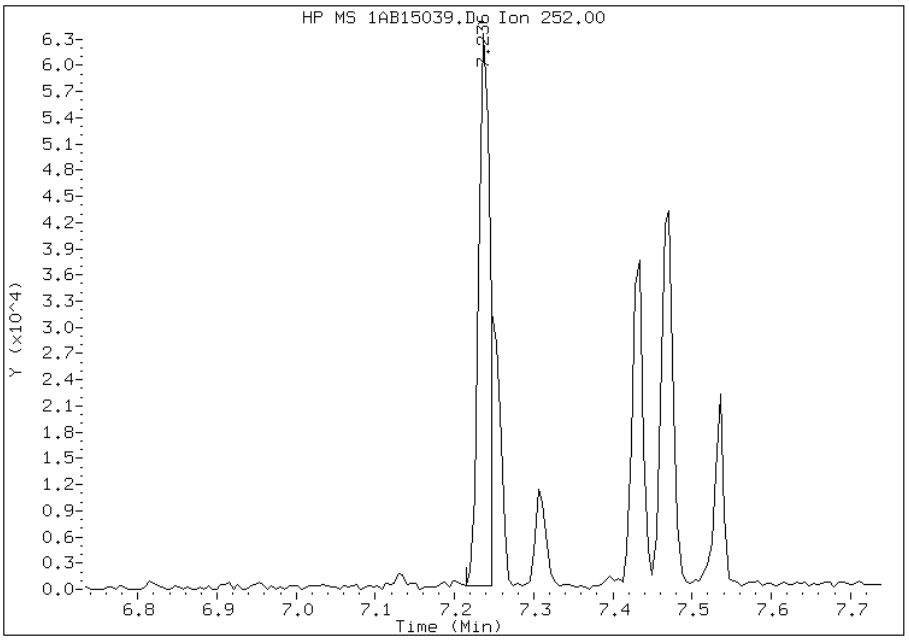
Manual Integration Results

RT: 7.24

Response: 62714

Amount: 3

Conc: 1007



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15039.D
Inj. Date and Time: 15-FEB-2013 23:40
Instrument ID: BSMA5973.i
Client ID: CV0005U-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

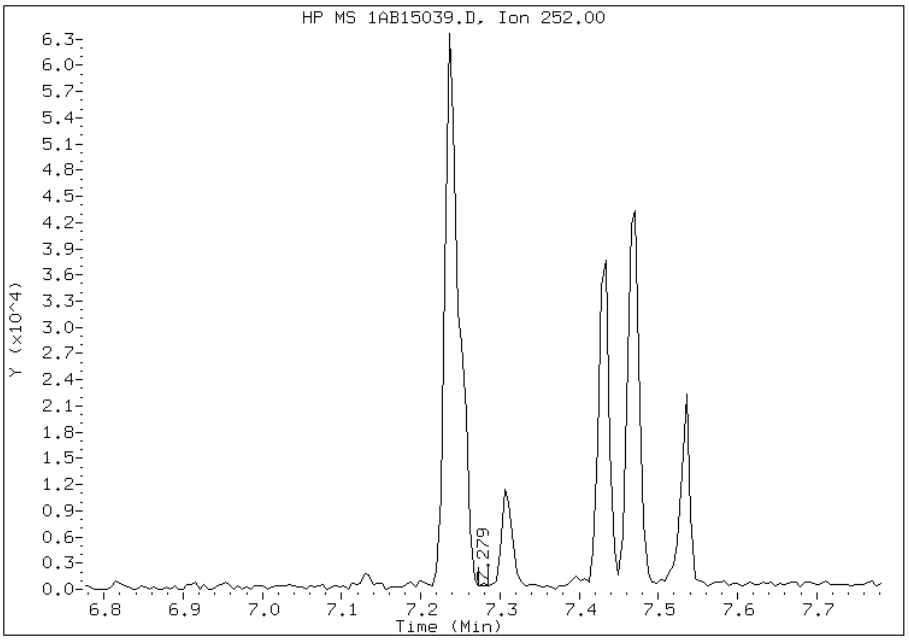
Processing Integration Results

RT: 7.28

Response: 109

Amount: 0

Conc: 2



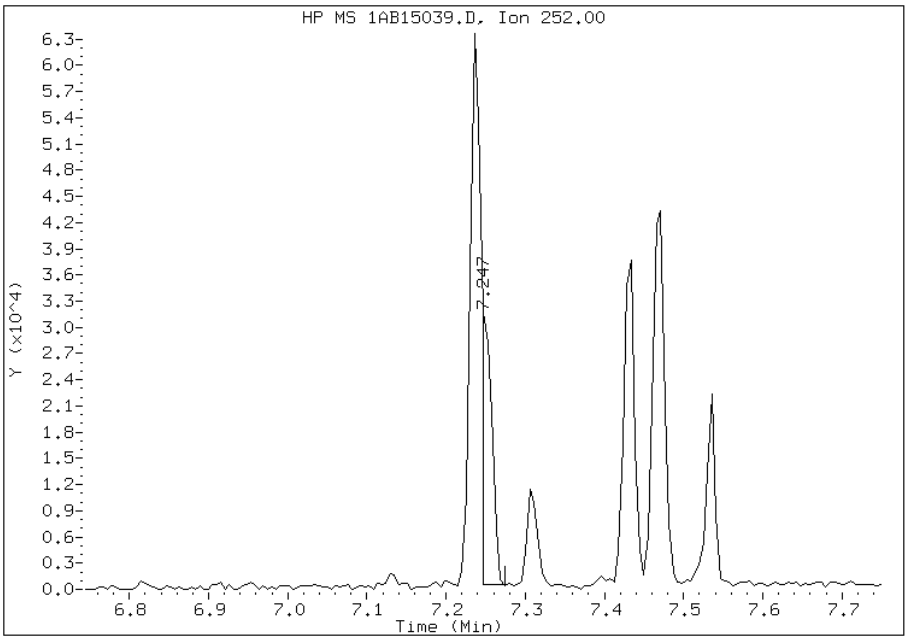
Manual Integration Results

RT: 7.25

Response: 27257

Amount: 1

Conc: 419



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15039.D
Inj. Date and Time: 15-FEB-2013 23:40
Instrument ID: BSMA5973.i
Client ID: CV0005U-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

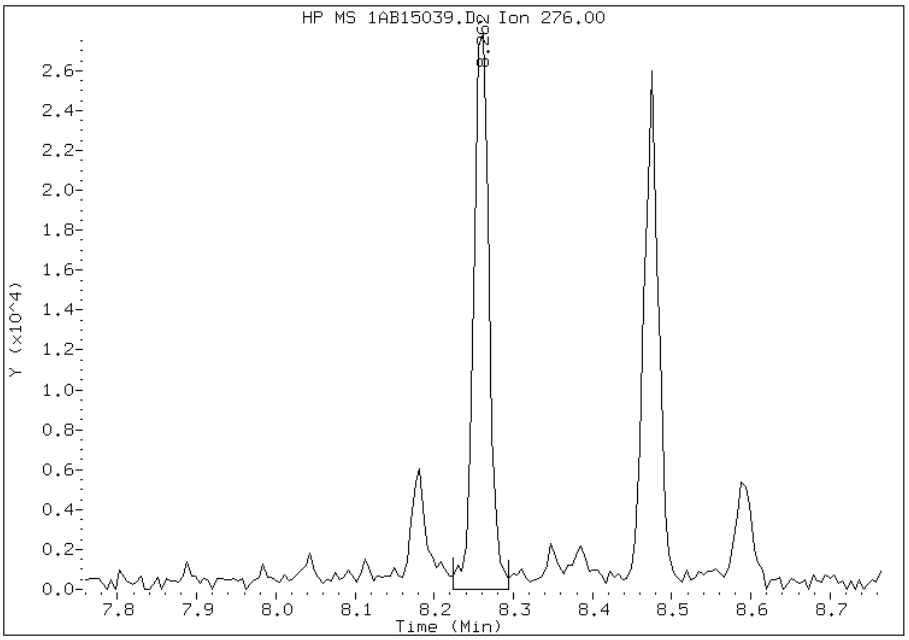
Processing Integration Results

RT: 8.26

Response: 37784

Amount: 2

Conc: 809



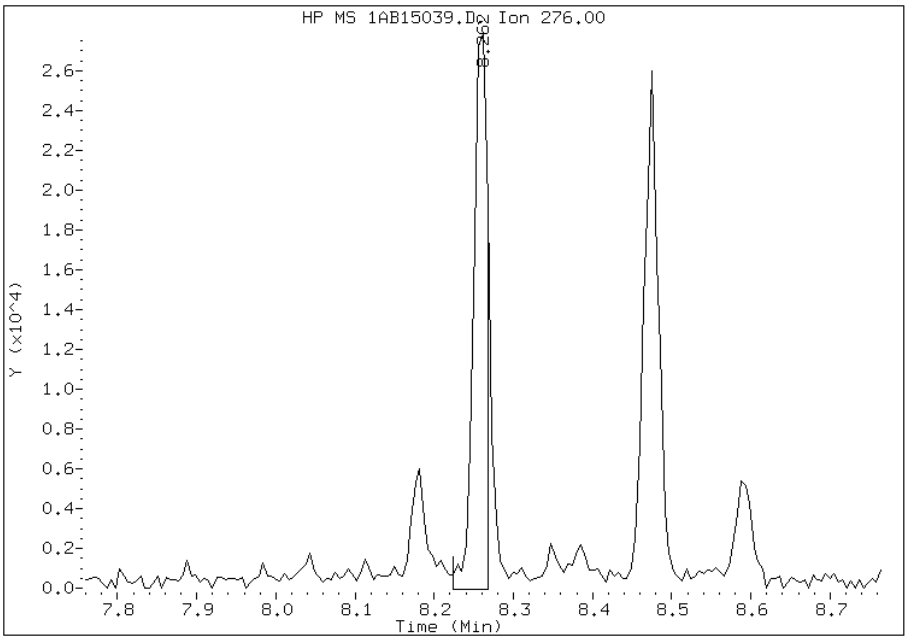
Manual Integration Results

RT: 8.26

Response: 33424

Amount: 2

Conc: 716



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:38
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005U-CSD | Lab Sample ID: 680-87318-31

Matrix: Solid | Lab File ID: 1AB15040.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 14:34

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.05(g) | Date Analyzed: 02/15/2013 23:56

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

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

% Moisture: 24.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	190	J	210	26
120-12-7	Anthracene	360		44	22
56-55-3	Benzo[a]anthracene	1100		42	20
50-32-8	Benzo[a]pyrene	710		55	27
205-99-2	Benzo[b]fluoranthene	1100		64	32
191-24-2	Benzo[g,h,i]perylene	530		100	23
207-08-9	Benzo[k]fluoranthene	380		42	19
218-01-9	Chrysene	830		47	24
53-70-3	Dibenz(a,h)anthracene	190		100	21
206-44-0	Fluoranthene	1900		100	21
86-73-7	Fluorene	100		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	520		100	37
90-12-0	1-Methylnaphthalene	170	J	210	23
91-57-6	2-Methylnaphthalene	210		210	37
91-20-3	Naphthalene	180	J	210	23
85-01-8	Phenanthrene	1200		42	20
129-00-0	Pyrene	1300		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15040.D
Lab Smp Id: 680-87318-A-31-A Client Smp ID: CV0005U-CSD
Inj Date : 15-FEB-2013 23:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-31-a
Misc Info : 680-87318-A-31-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 37
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	23.972	% 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	2.420	2.415	(1.000)	714271	40.0000	
* 6 Acenaphthene-d10	164	3.446	3.441	(1.000)	498357	40.0000	
* 10 Phenanthrene-d10	188	4.392	4.386	(1.000)	745015	40.0000	
$ 14 o-Terphenyl	230	4.669	4.664	(1.063)	21277	1.96546	687.0860
* 18 Chrysene-d12	240	6.422	6.411	(1.000)	667381	40.0000	
* 23 Perylene-d12	264	7.522	7.501	(1.000)	784034	40.0000	
2 Naphthalene	128	2.431	2.426	(1.004)	8733	0.50372	176.0905
3 2-Methylnaphthalene	141	2.837	2.832	(1.172)	5675	0.61102	213.5994
4 1-Methylnaphthalene	142	2.891	2.885	(1.194)	5157	0.49050	171.4695
5 Acenaphthylene	152	3.361	3.355	(0.975)	11932	0.54224	189.5565
9 Fluorene	166	3.777	3.772	(1.096)	4349	0.29040	101.5181
11 Phenanthrene	178	4.408	4.402	(1.004)	72197	3.54914	1240.7117
12 Anthracene	178	4.440	4.434	(1.011)	21273	1.02570	358.5649
13 Carbazole	167	4.600	4.589	(1.047)	10272	0.57779	201.9842

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.273	5.262	(1.201)	107270	5.31884	1859.3630
16 Pyrene	202	5.439	5.433	(0.847)	88218	3.66013	1279.5089
17 Benzo(a)anthracene	228	6.416	6.395	(0.999)	62980	3.16052	1104.8570
19 Chrysene	228	6.432	6.427	(1.002)	45922	2.36427	826.5011
20 Benzo(b)fluoranthene	252	7.239	7.217	(0.962)	71822	3.28216	1147.3777(M)
21 Benzo(k)fluoranthene	252	7.250	7.239	(0.964)	24579	1.07431	375.5564(QMH)
22 Benzo(a)pyrene	252	7.469	7.452	(0.993)	42210	2.03128	710.0957
24 Indeno(1,2,3-cd)pyrene	276	8.265	8.238	(1.099)	24252	1.47801	516.6852(M)
25 Dibenzo(a,h)anthracene	278	8.270	8.254	(1.099)	8747	0.53323	186.4076
26 Benzo(g,h,i)perylene	276	8.478	8.446	(1.127)	25727	1.51343	529.0649

QC Flag Legend

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

Data File: 1AB15040.D

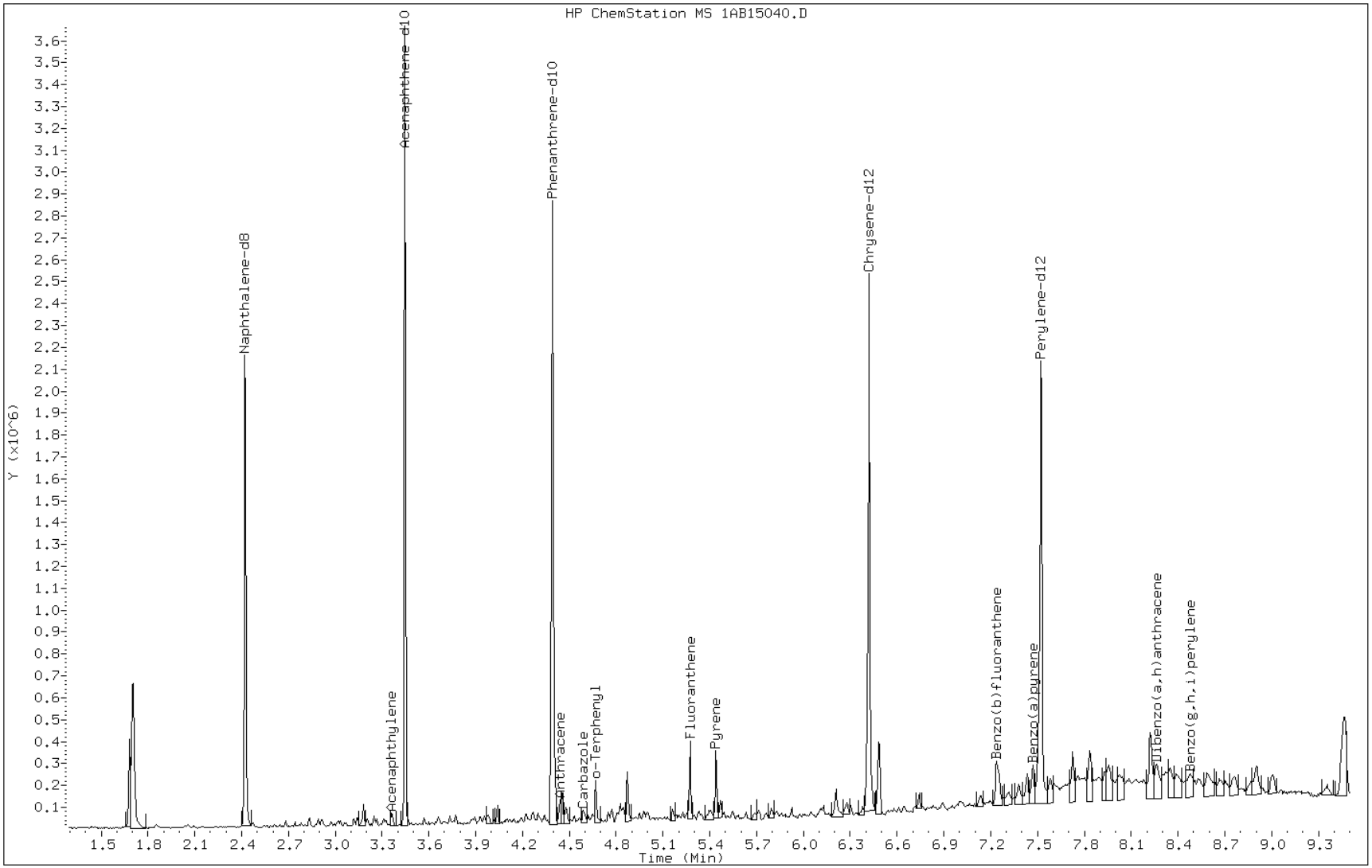
Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD

Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a

Operator: SCC



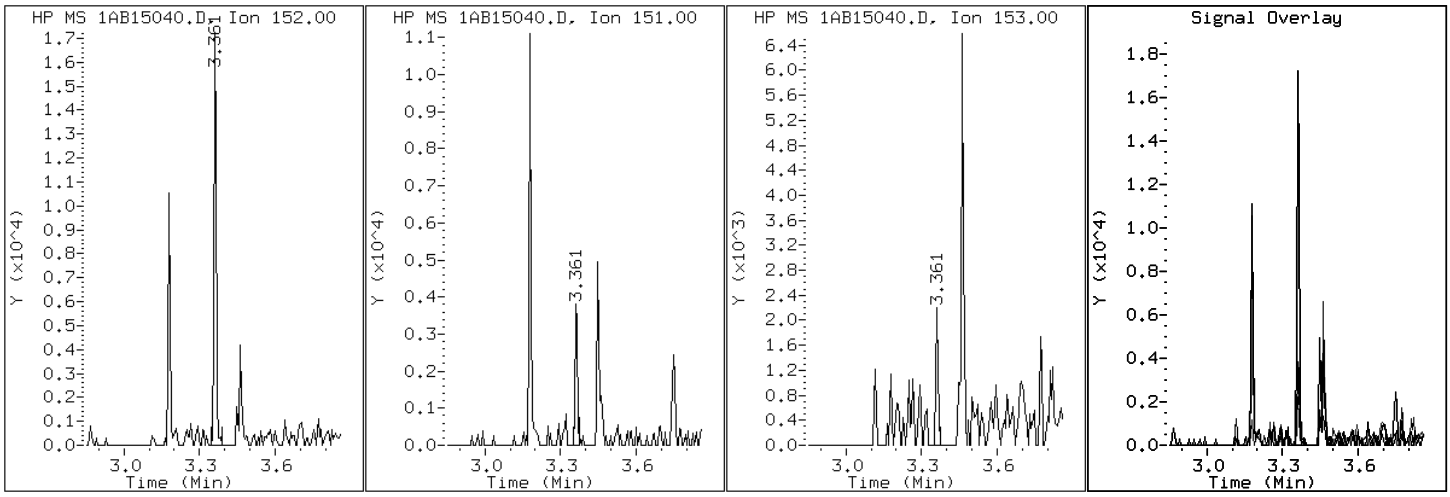
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

5 Acenaphthylene



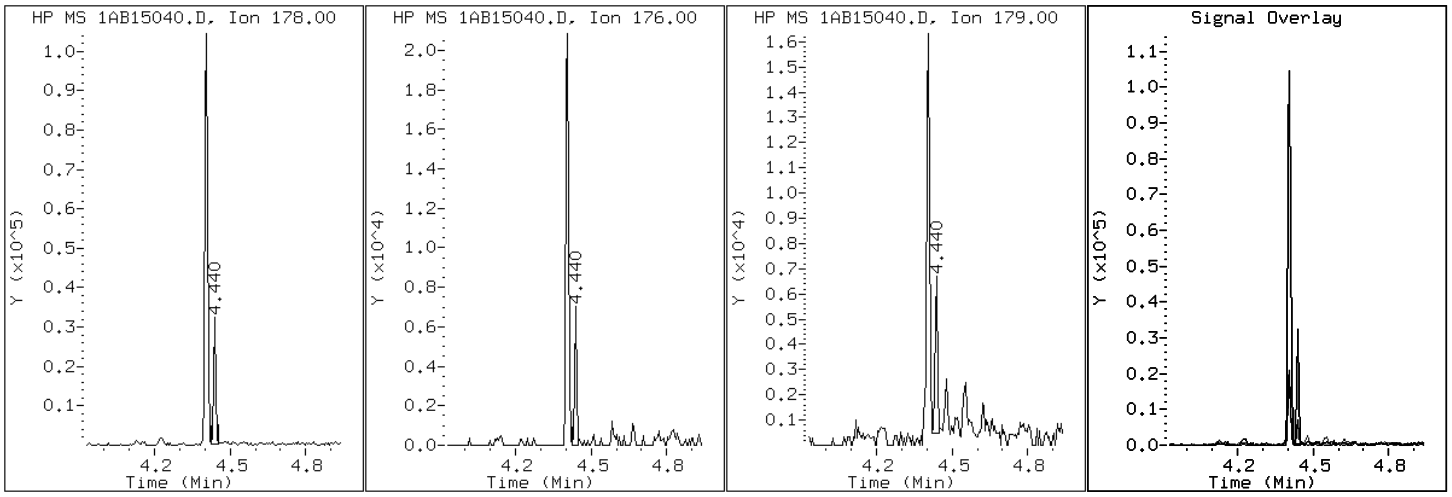
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

12 Anthracene



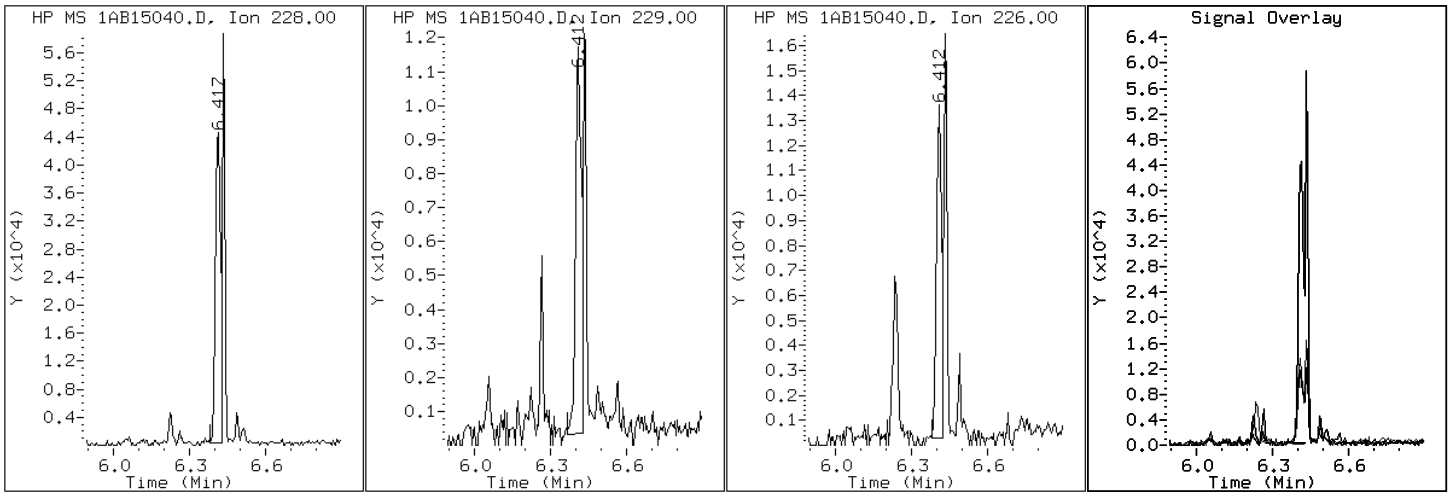
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

17 Benzo(a)anthracene



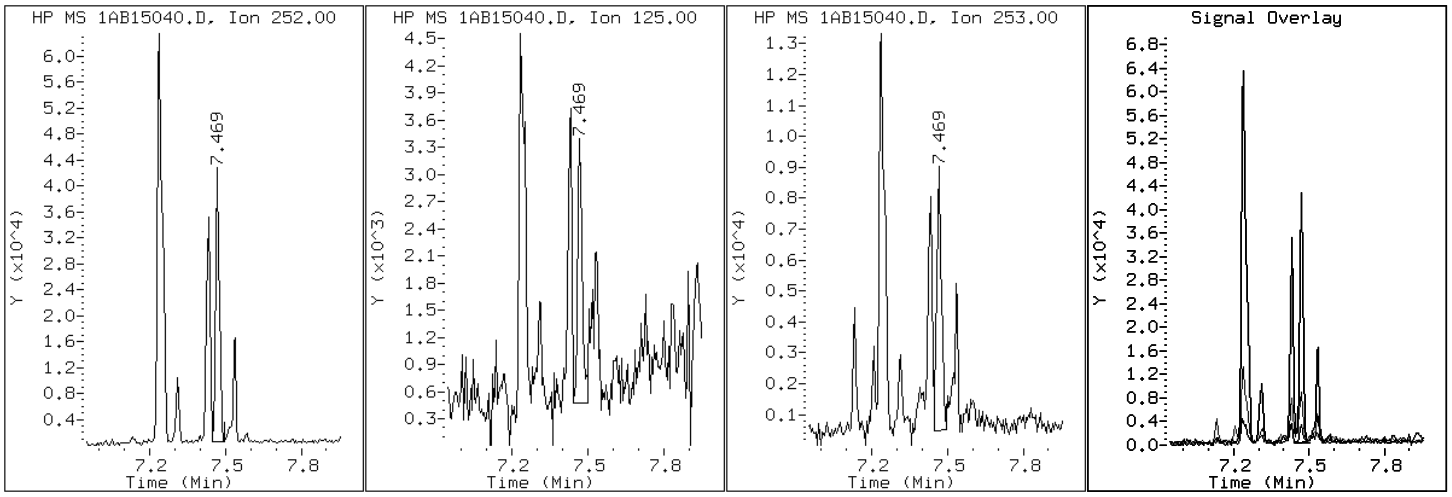
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

22 Benzo(a)pyrene



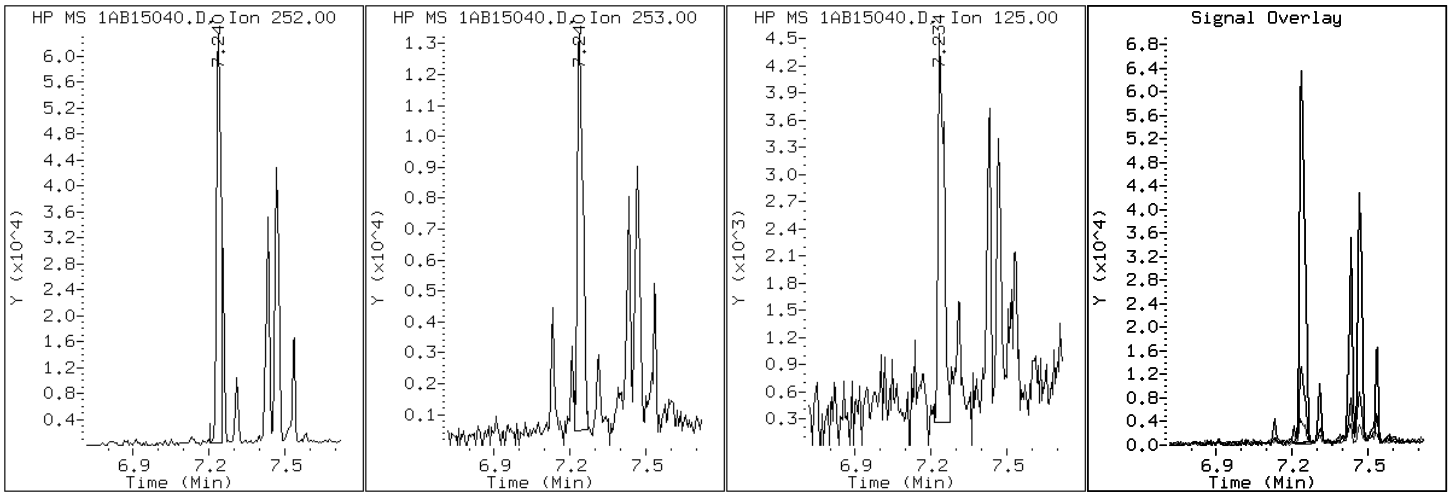
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

20 Benzo(b)fluoranthene



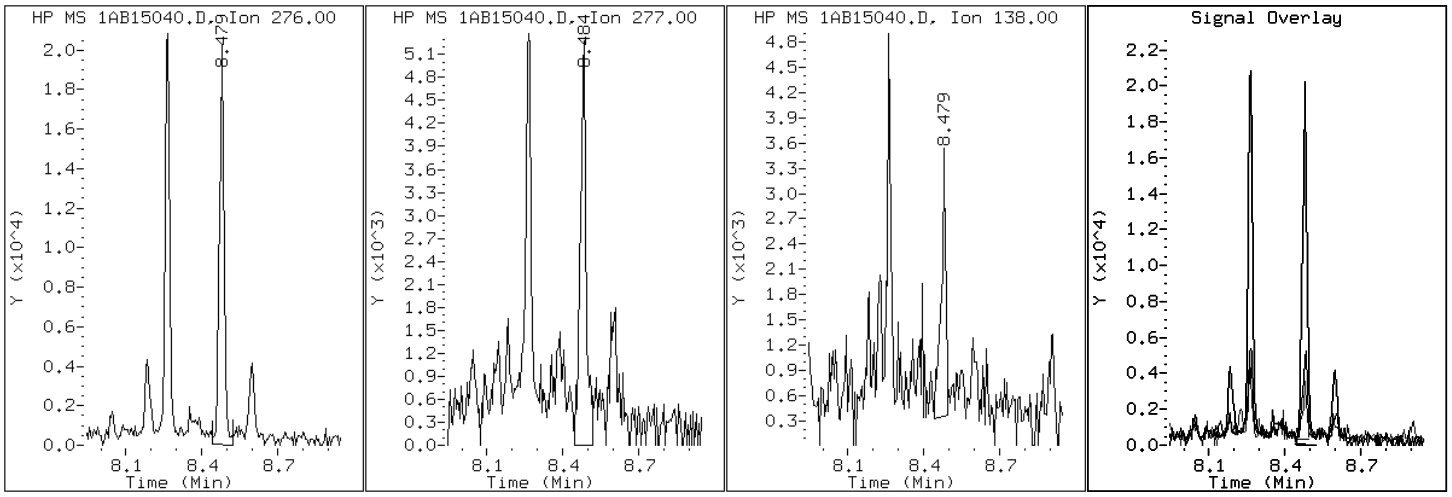
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

26 Benzo(g,h,i)perylene



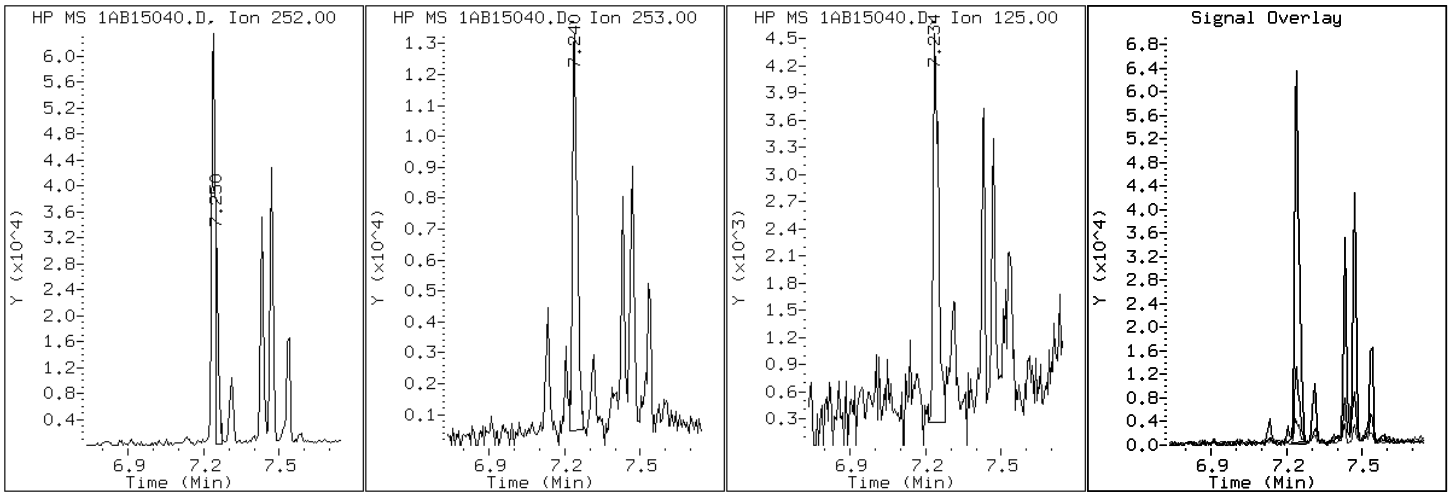
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

21 Benzo(k)fluoranthene



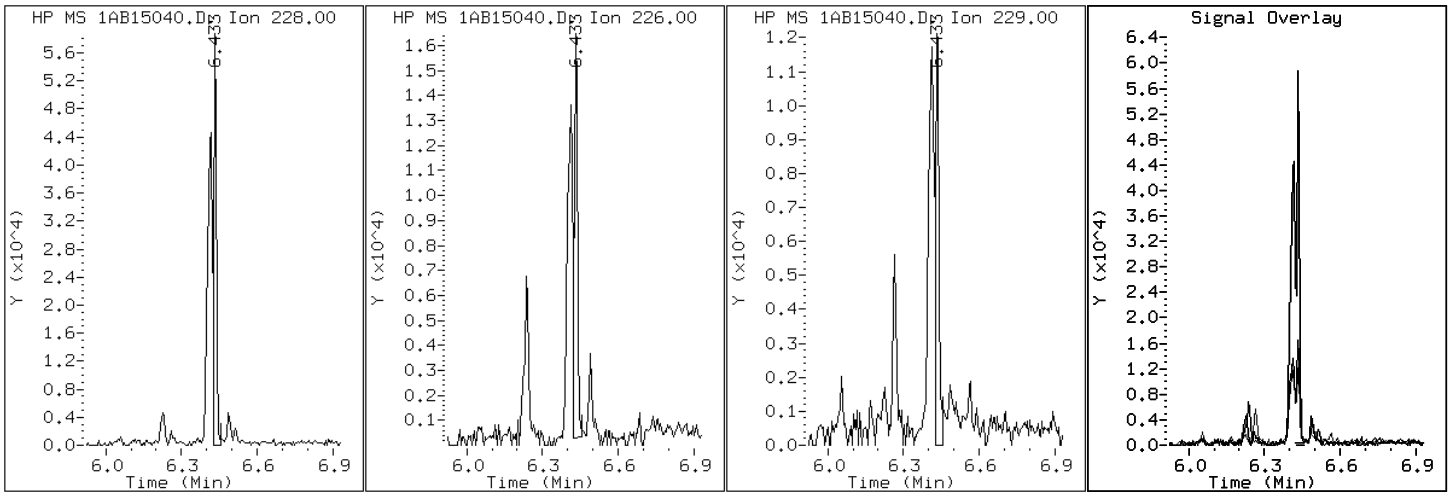
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

19 Chrysene



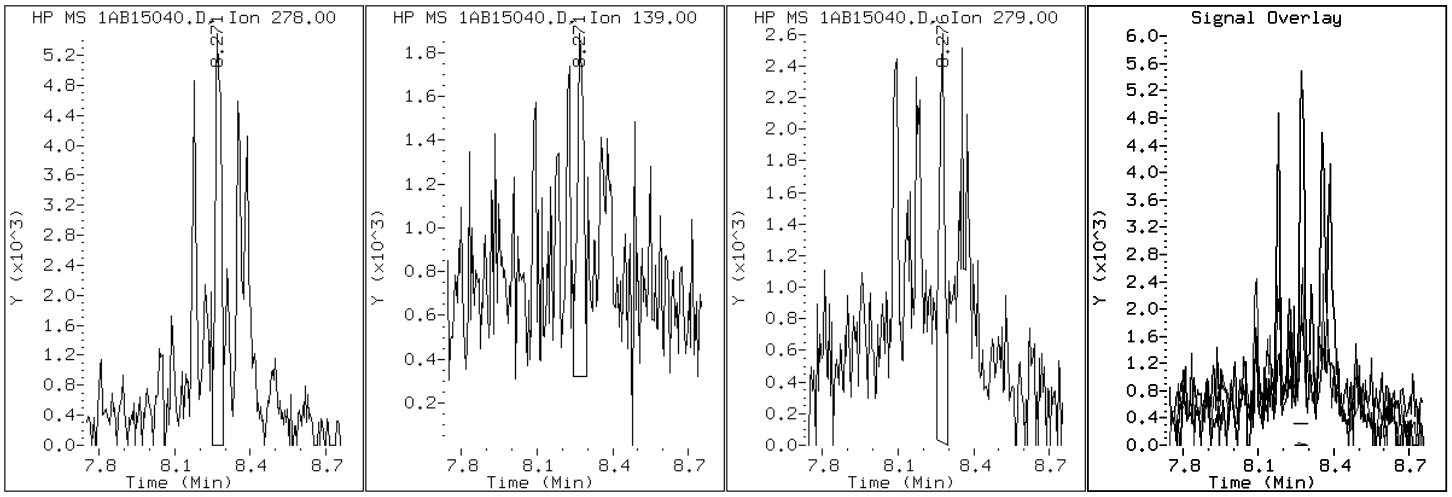
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

25 Dibenzo(a,h)anthracene



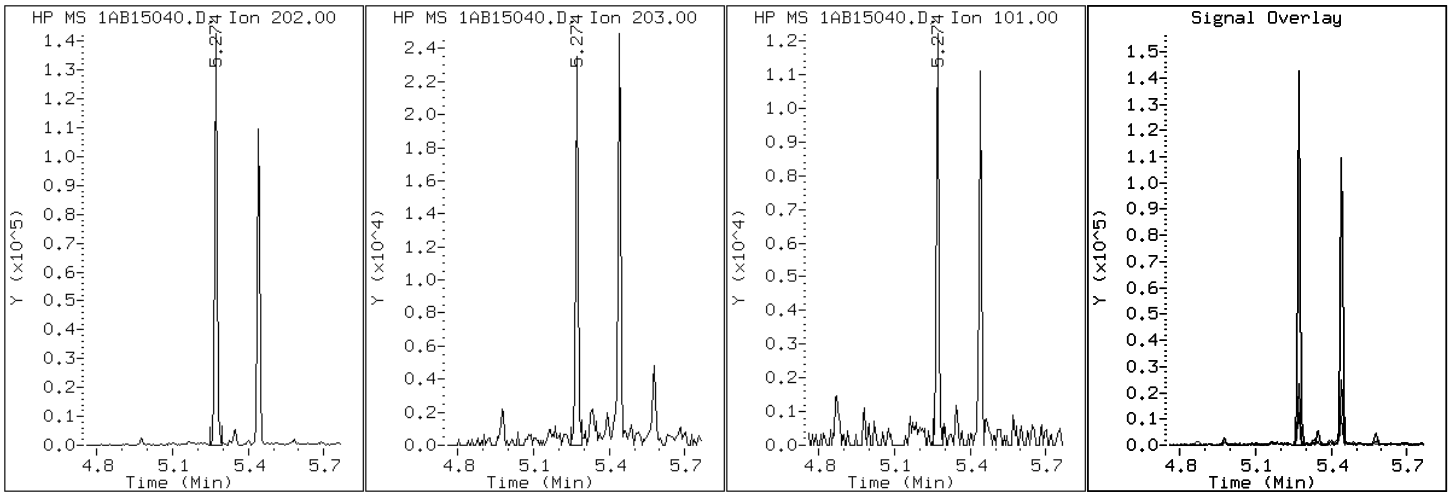
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

15 Fluoranthene



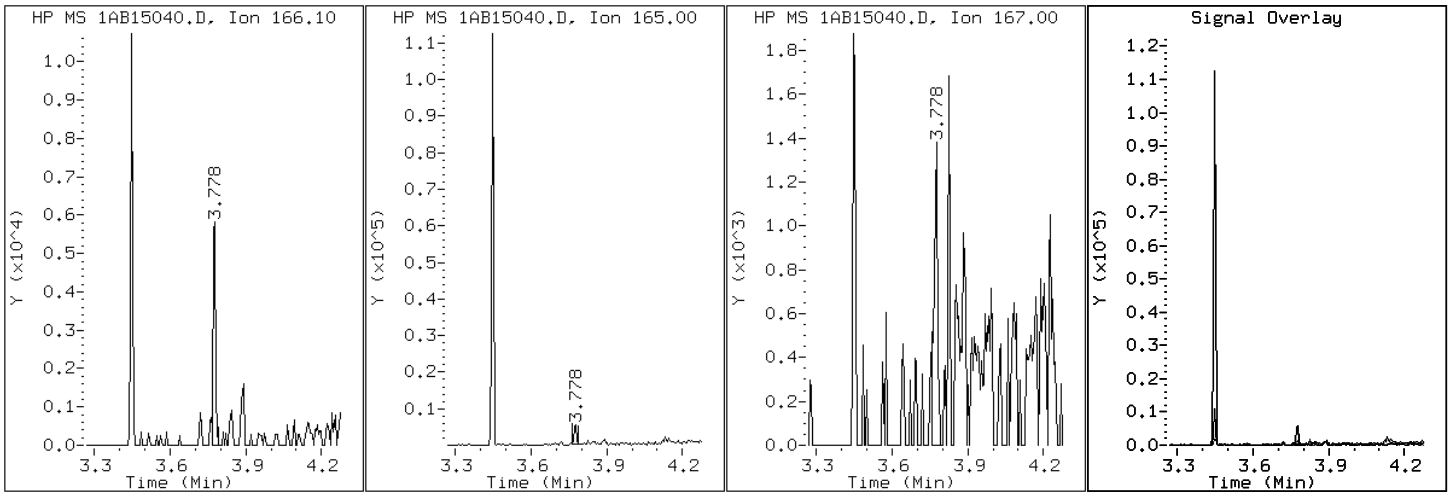
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

9 Fluorene



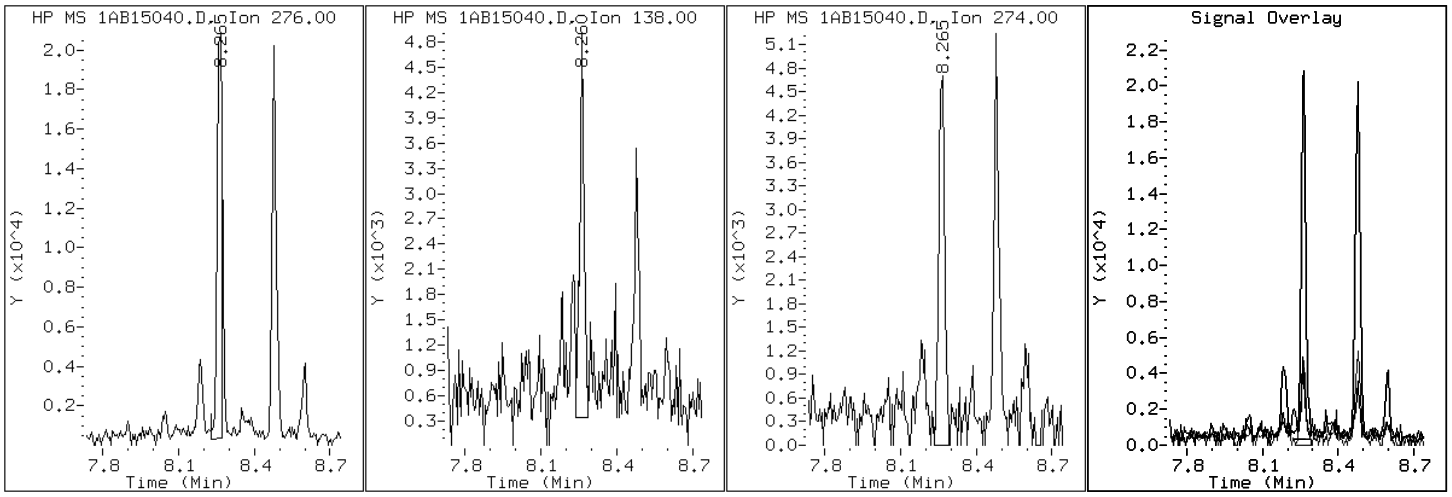
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

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



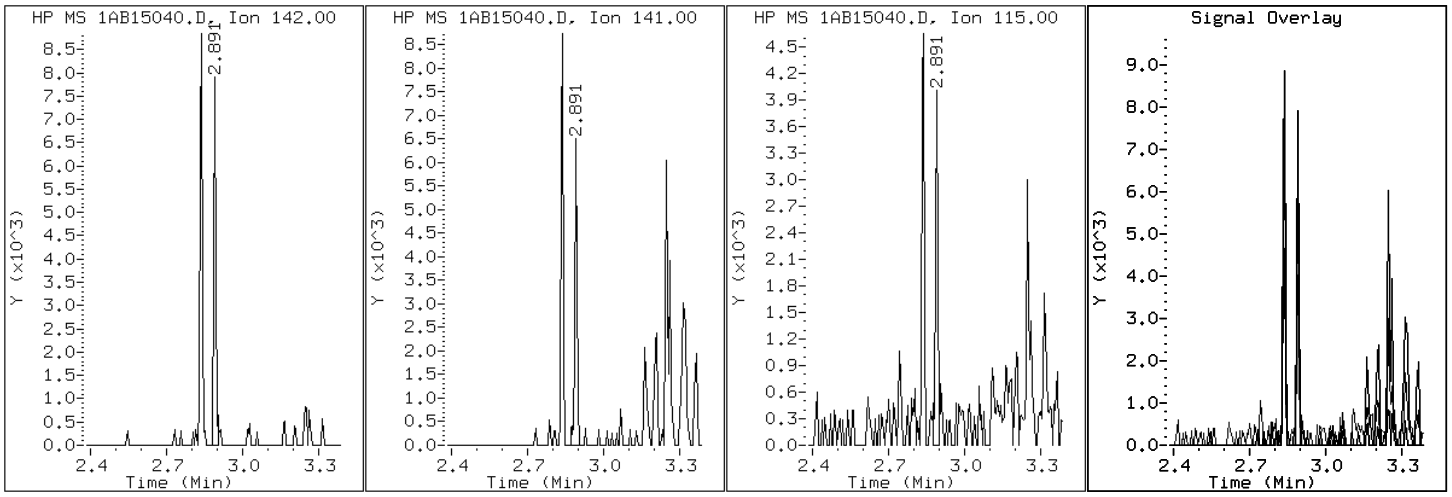
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

4 1-Methylnaphthalene



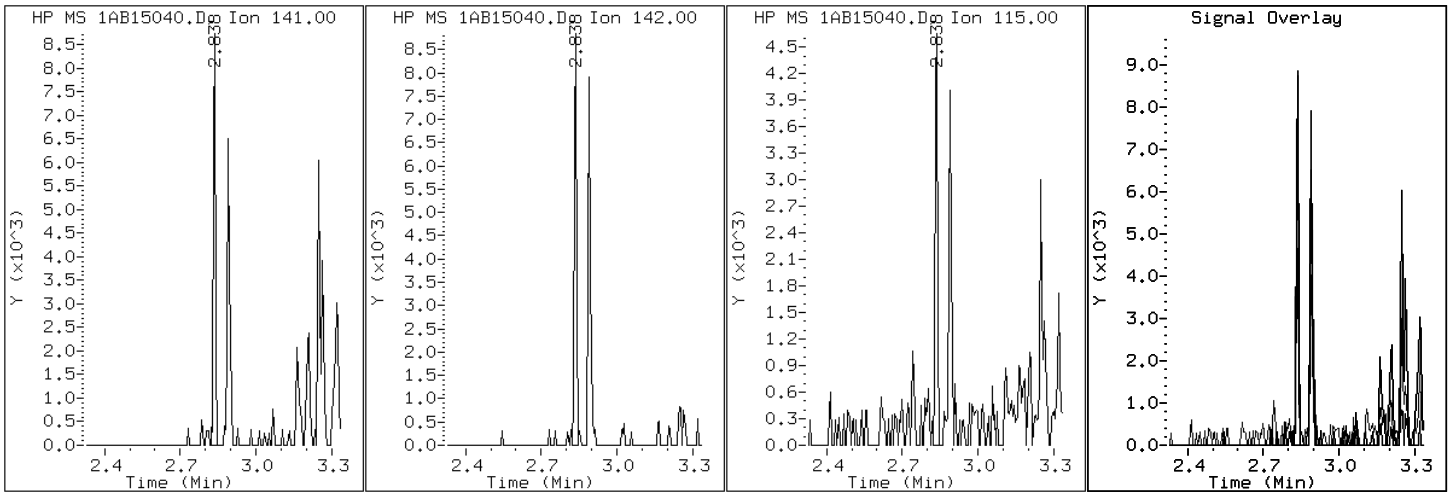
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

3 2-Methylnaphthalene



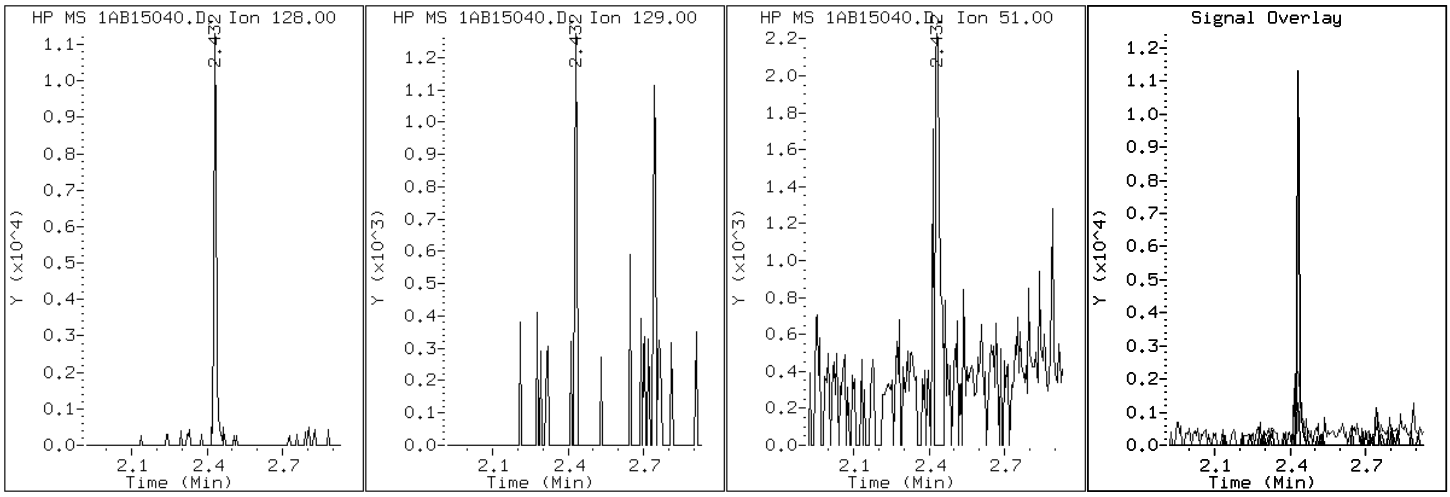
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

2 Naphthalene



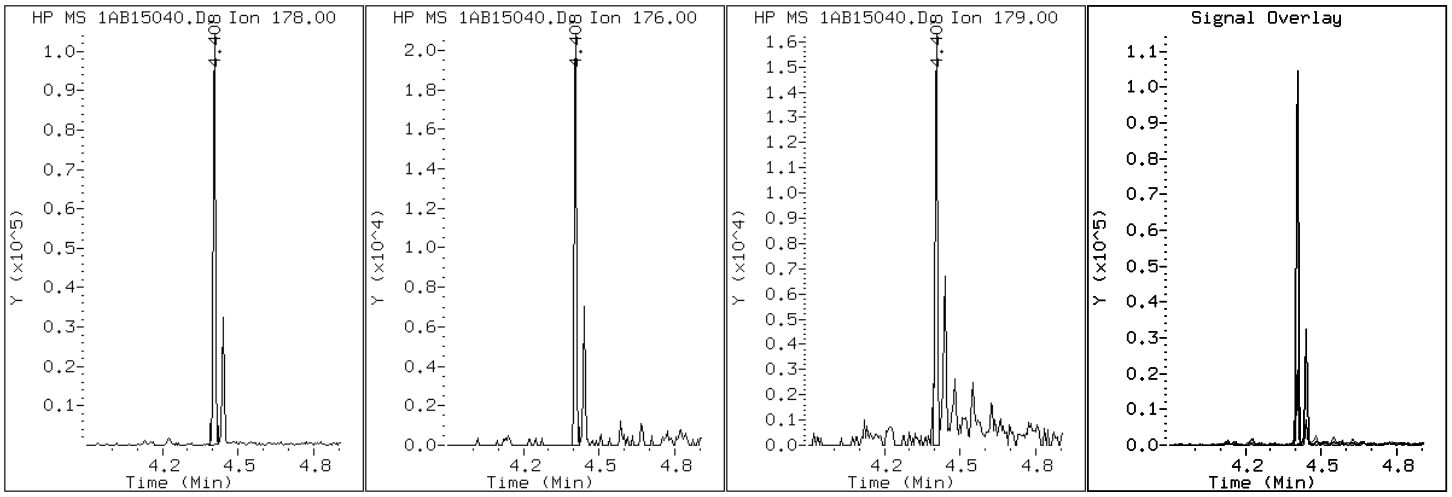
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

11 Phenanthrene



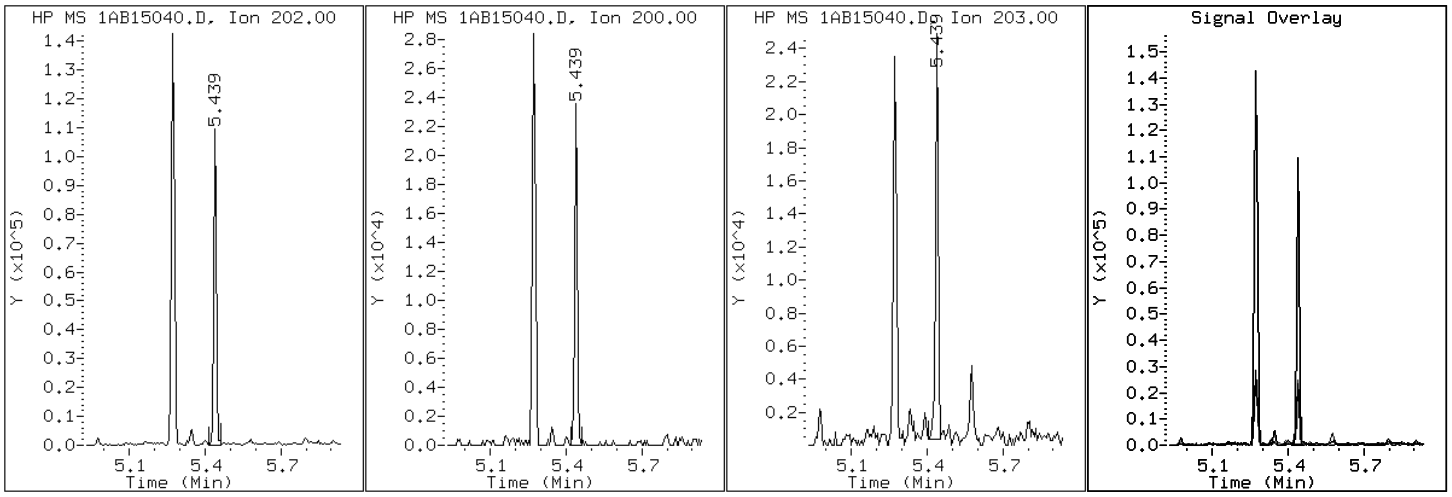
Data File: 1AB15040.D

Date: 15-FEB-2013 23:56

Client ID: CV0005U-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-31-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15040.D
Inj. Date and Time: 15-FEB-2013 23:56
Instrument ID: BSMA5973.i
Client ID: CV0005U-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

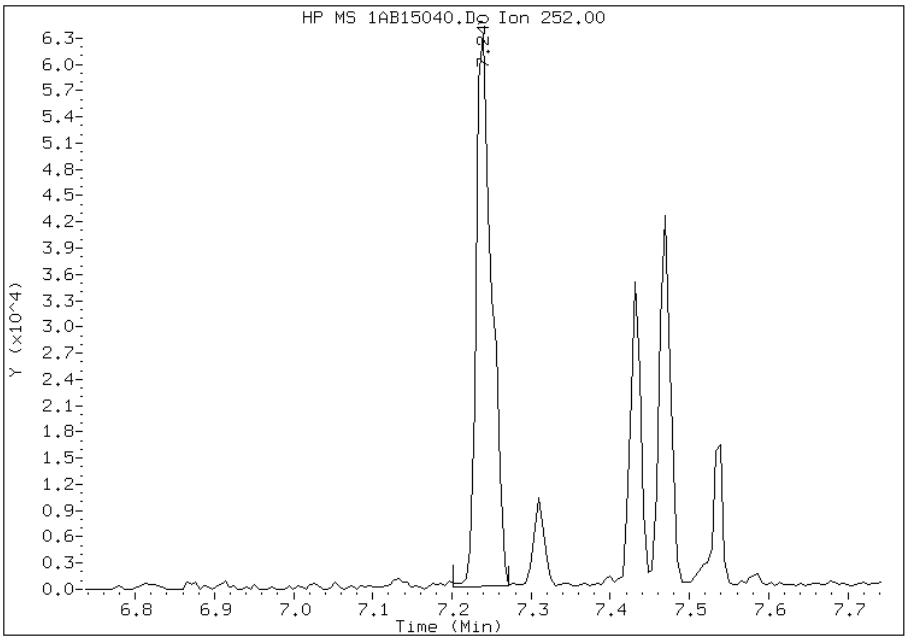
Processing Integration Results

RT: 7.24

Response: 85600

Amount: 4

Conc: 1367



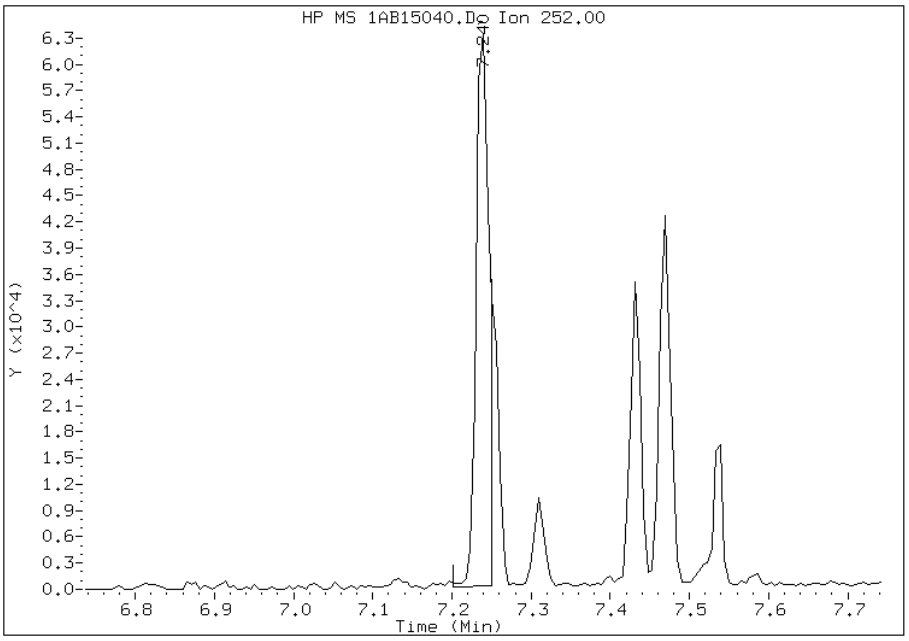
Manual Integration Results

RT: 7.24

Response: 71822

Amount: 3

Conc: 1147



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15040.D
Inj. Date and Time: 15-FEB-2013 23:56
Instrument ID: BSMA5973.i
Client ID: CV0005U-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

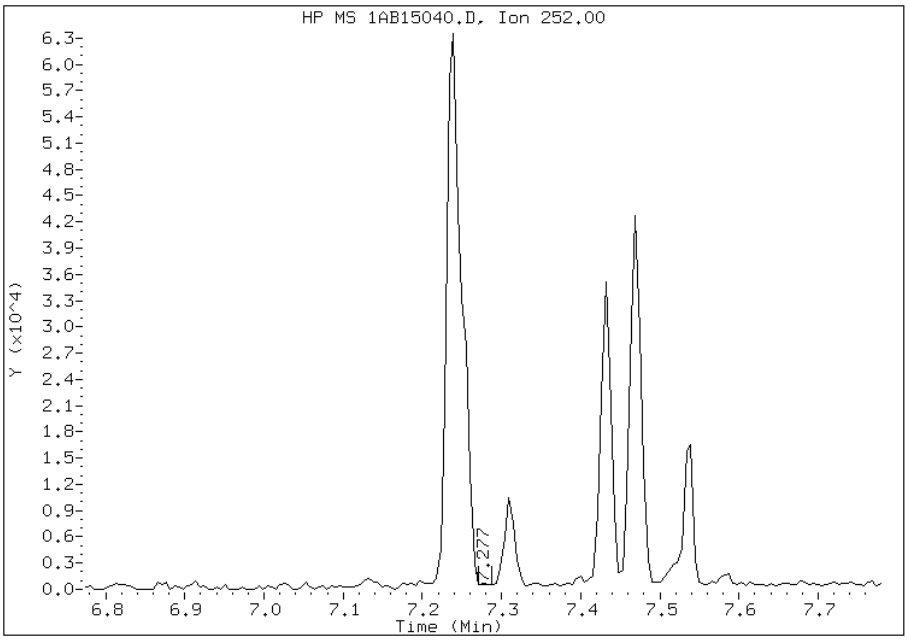
Processing Integration Results

RT: 7.28

Response: 86

Amount: 0

Conc: 1



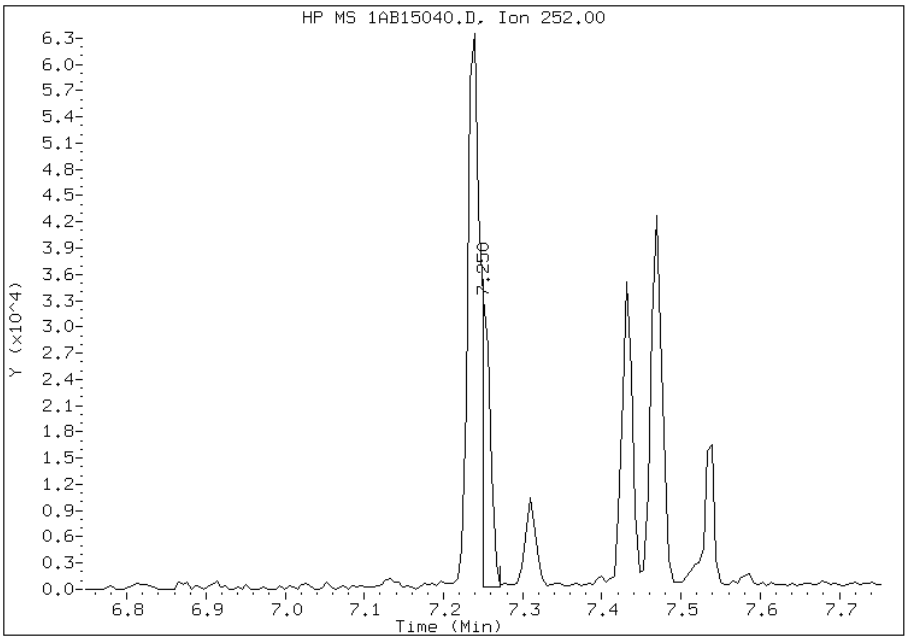
Manual Integration Results

RT: 7.25

Response: 24579

Amount: 1

Conc: 376



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:39
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15040.D
Inj. Date and Time: 15-FEB-2013 23:56
Instrument ID: BSMA5973.i
Client ID: CV0005U-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

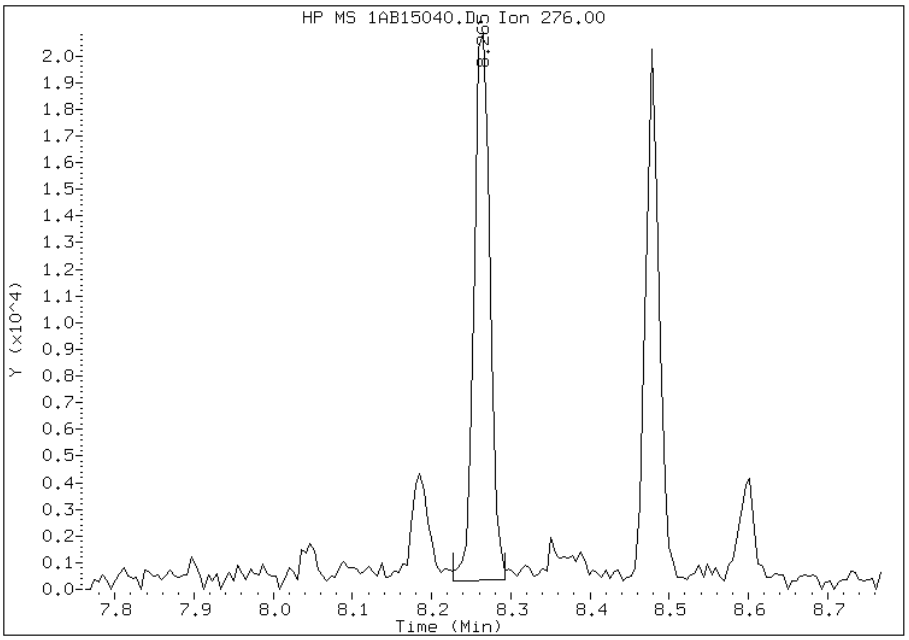
Processing Integration Results

RT: 8.27

Response: 28358

Amount: 2

Conc: 604



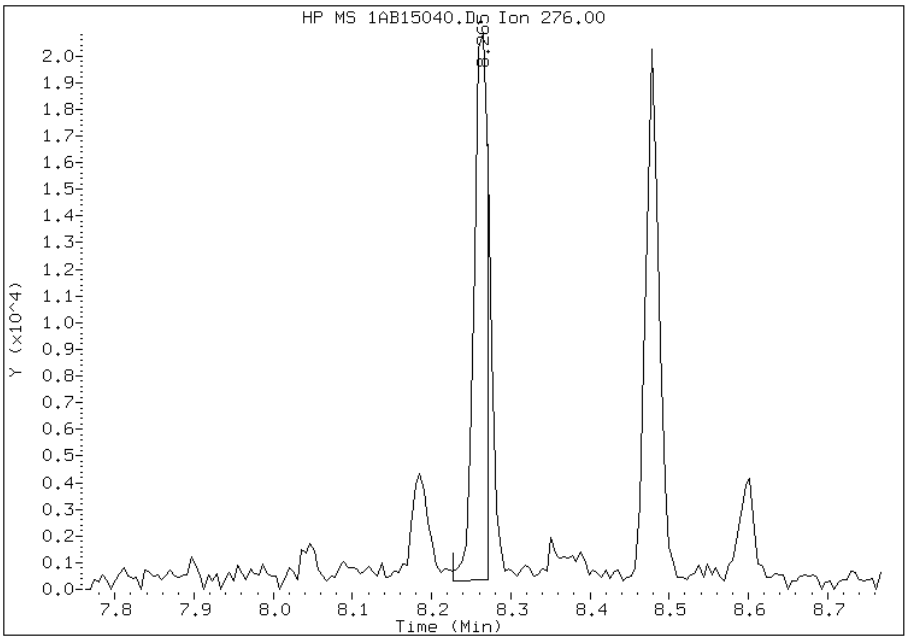
Manual Integration Results

RT: 8.27

Response: 24252

Amount: 1

Conc: 517



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:40
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005V-CS | Lab Sample ID: 680-87318-32

Matrix: Solid | Lab File ID: 1CB18005.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 14:34

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.46(g) | Date Analyzed: 02/18/2013 14:47

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

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

% Moisture: 29.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	550	U	550	110
208-96-8	Acenaphthylene	180	J	220	27
120-12-7	Anthracene	96		46	23
56-55-3	Benzo[a]anthracene	770		44	21
50-32-8	Benzo[a]pyrene	870		57	29
205-99-2	Benzo[b]fluoranthene	1400		67	33
191-24-2	Benzo[g,h,i]perylene	670		110	24
207-08-9	Benzo[k]fluoranthene	340		44	20
218-01-9	Chrysene	740		49	25
53-70-3	Dibenz(a,h)anthracene	160		110	23
206-44-0	Fluoranthene	1200		110	22
86-73-7	Fluorene	31	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	590		110	39
90-12-0	1-Methylnaphthalene	120	J	220	24
91-57-6	2-Methylnaphthalene	110	J	220	39
91-20-3	Naphthalene	110	J	220	24
85-01-8	Phenanthrene	460		44	21
129-00-0	Pyrene	1200		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18005.D
Lab Smp Id: 680-87318-A-32-A Client Smp ID: CV0005V-CS
Inj Date : 18-FEB-2013 14:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-A-32-A
Misc Info : 680-87318-A-32-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\a-bFASTPAHi-m.m
Meth Date : 18-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 5
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.460	Weight Extracted
M	29.329	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	1847095	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1464408	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2728823	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	76522	1.91384	700.6738
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	3212100	40.0000	
* 23 Perylene-d12	264	9.021	9.027	(1.000)	3249115	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	15052	0.30753	112.5876(Q)
3 2-Methylnaphthalene	142	4.251	4.257	(1.114)	9352	0.29385	107.5816
4 1-Methylnaphthalene	142	4.316	4.315	(1.131)	9265	0.32009	117.1879
5 Acenaphthylene	152	4.816	4.815	(0.982)	29254	0.50213	183.8326
9 Fluorene	166	5.245	5.245	(1.070)	3912	0.08340	30.5345(Q)
11 Phenanthrene	178	5.868	5.874	(1.002)	103158	1.26646	463.6639
12 Anthracene	178	5.904	5.909	(1.008)	19299	0.26298	96.2776
13 Carbazole	167	6.010	6.015	(1.026)	13483	0.21151	77.4367

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.709	6.715	(1.146)	262997	3.30434	1209.7481
16 Pyrene	202	6.880	6.880	(0.882)	274302	3.20769	1174.3630
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	185547	2.09473	766.8985
19 Chrysene	228	7.821	7.827	(1.002)	186151	2.03452	744.8543
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	309723	3.88817	1423.4951
21 Benzo(k)fluoranthene	252	8.680	8.686	(0.962)	82664	0.94197	344.8640(QM)
22 Benzo(a)pyrene	252	8.962	8.968	(0.993)	180132	2.37645	870.0396
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.250	(1.136)	117316	1.61141	589.9533(M)
25 Dibenzo(a,h)anthracene	278	10.250	10.268	(1.136)	29487	0.42950	157.2429
26 Benzo(g,h,i)perylene	276	10.603	10.621	(1.175)	136184	1.84148	674.1835

QC Flag Legend

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

Data File: 1CB18005.D

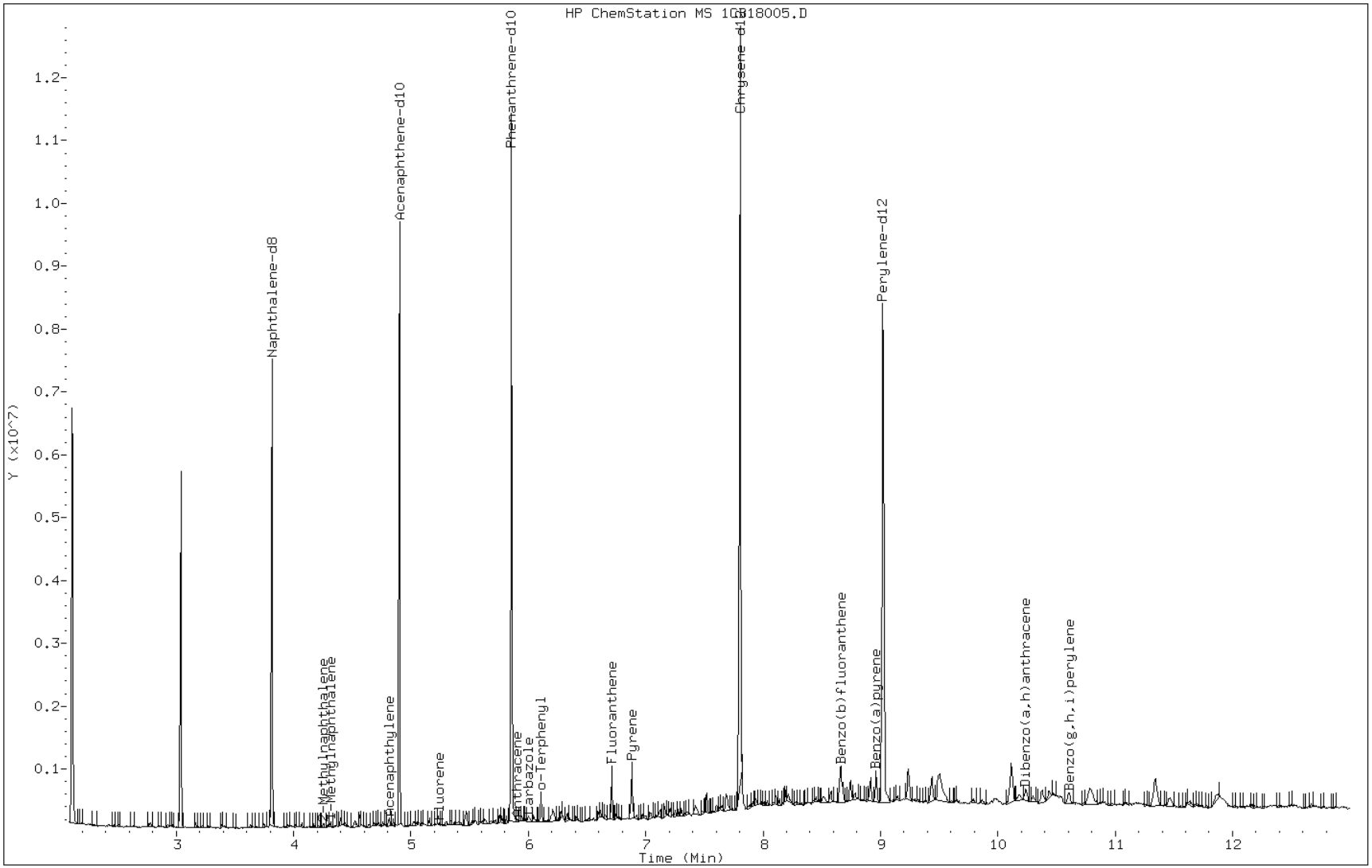
Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A

Operator: SCC



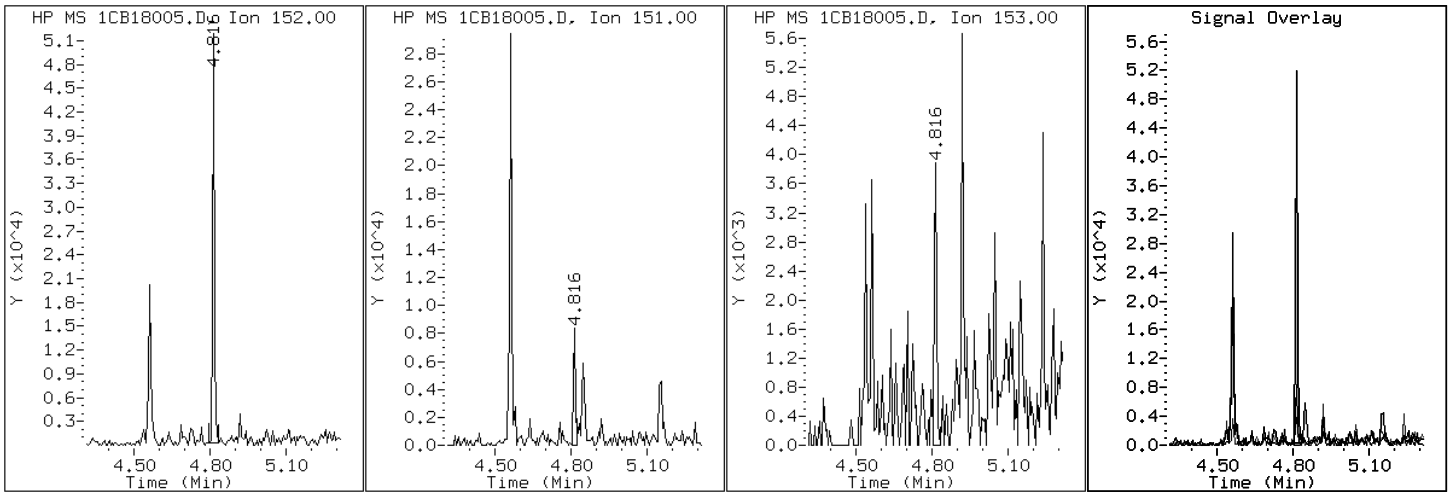
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

5 Acenaphthylene



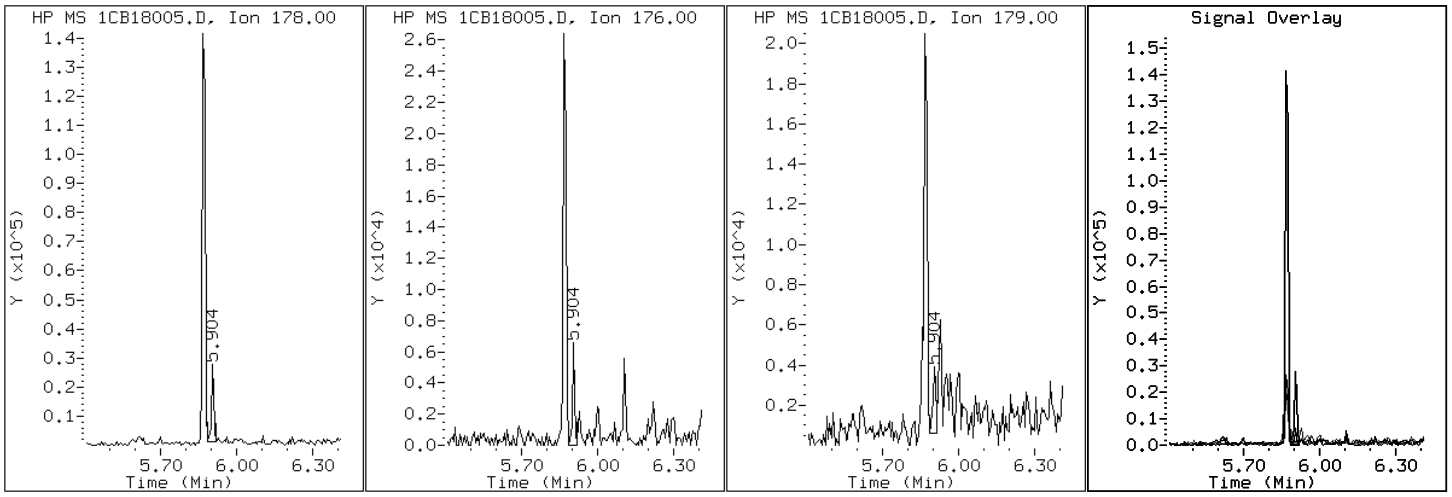
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

12 Anthracene



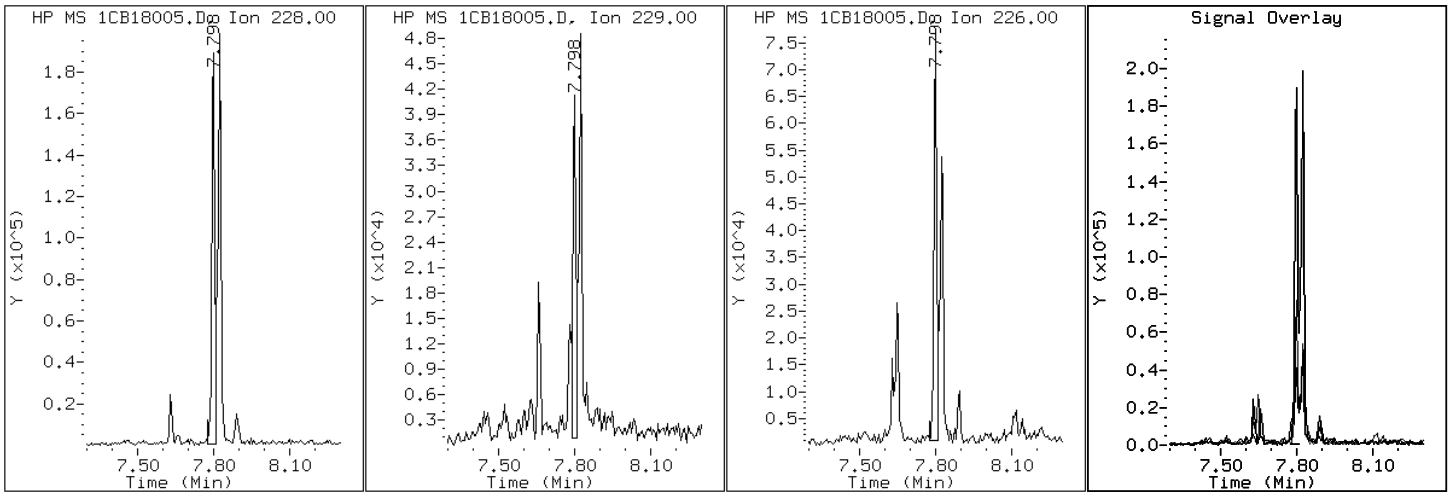
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

17 Benzo(a)anthracene



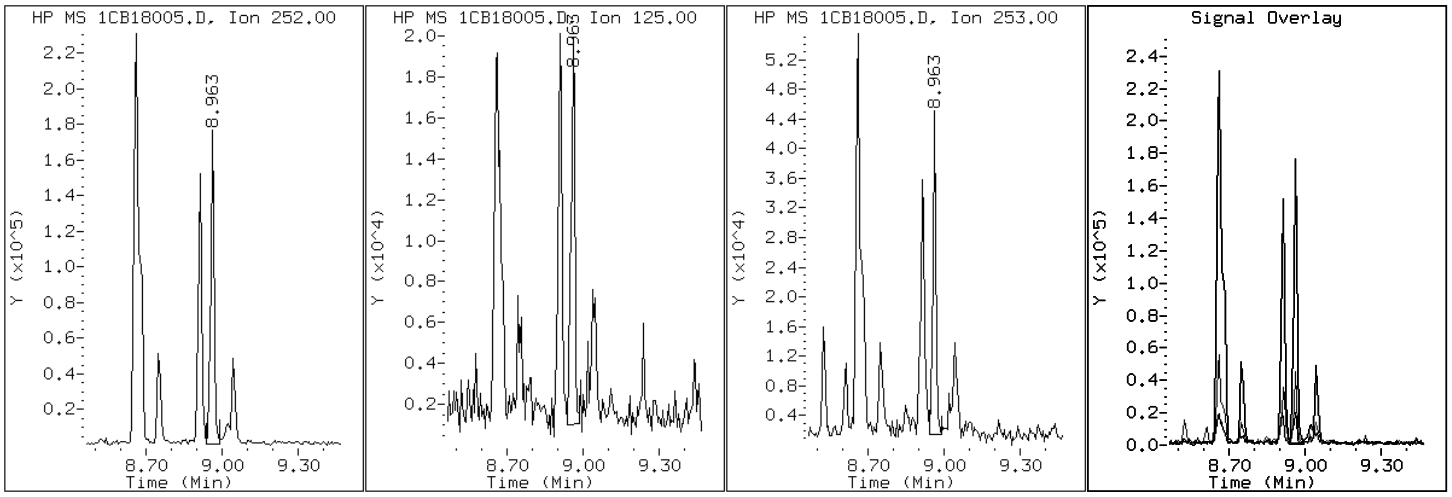
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

22 Benzo(a)pyrene



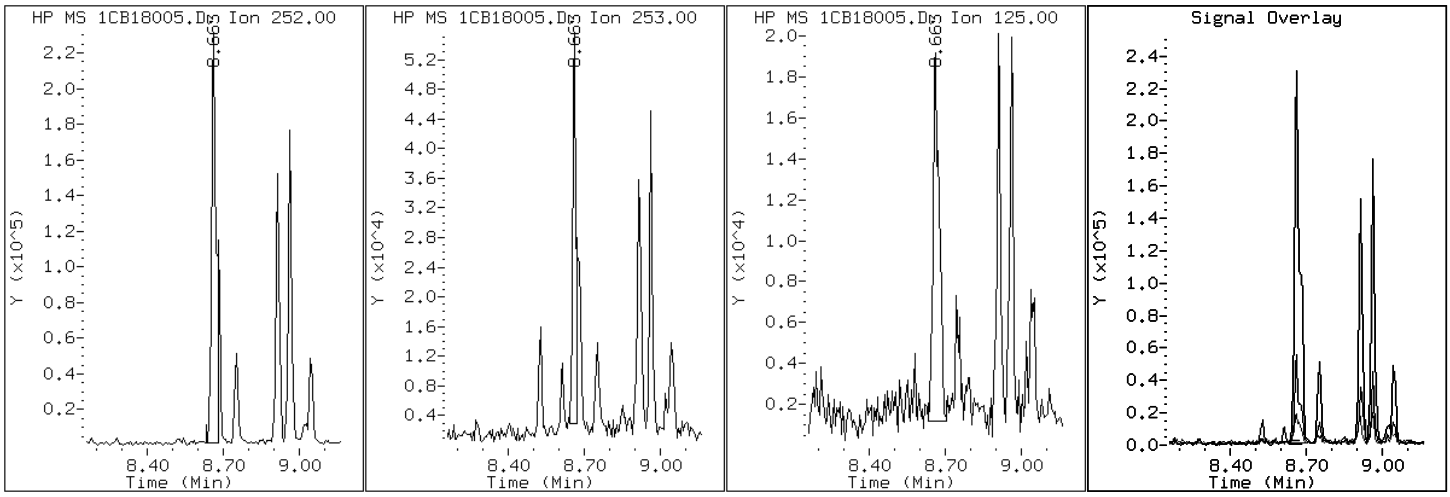
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

20 Benzo(b)fluoranthene



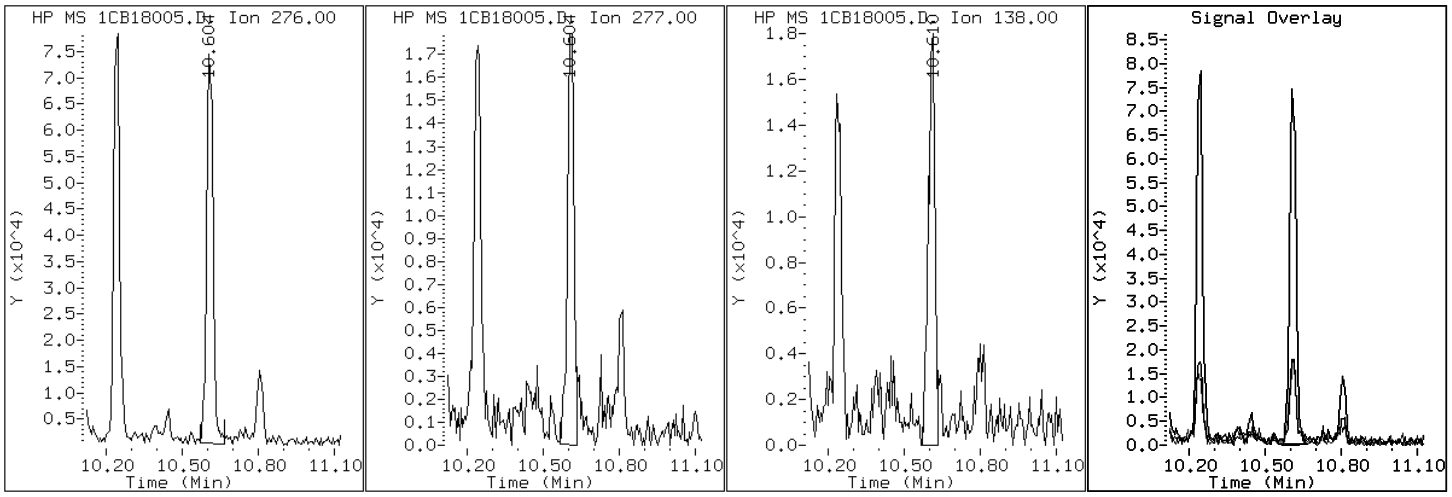
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

26 Benzo(g,h,i)perylene



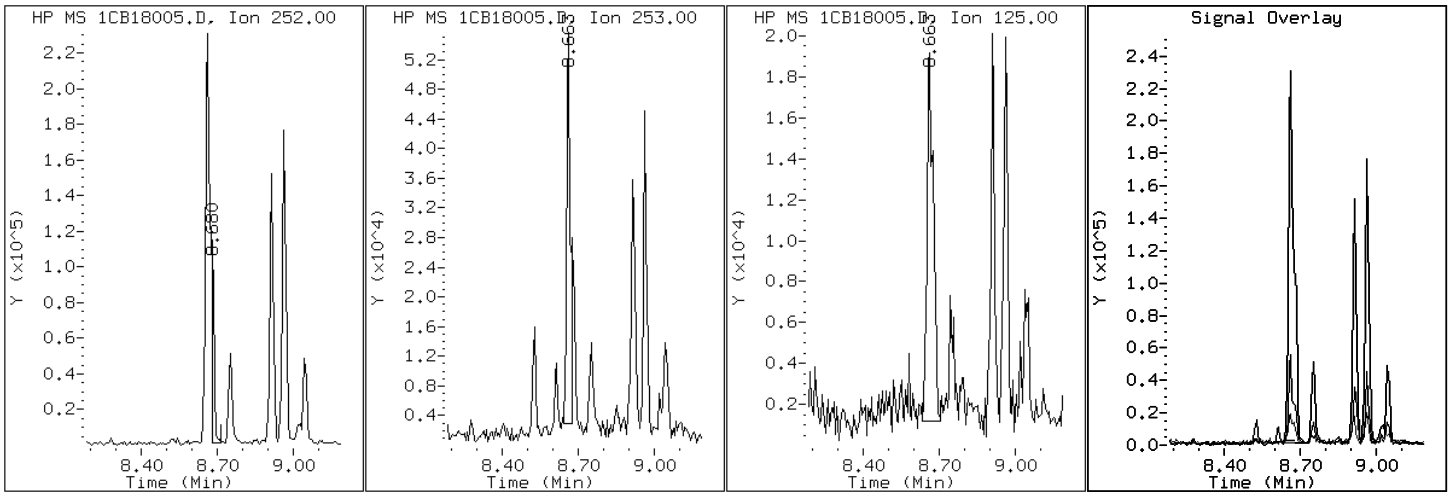
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

21 Benzo(k)fluoranthene



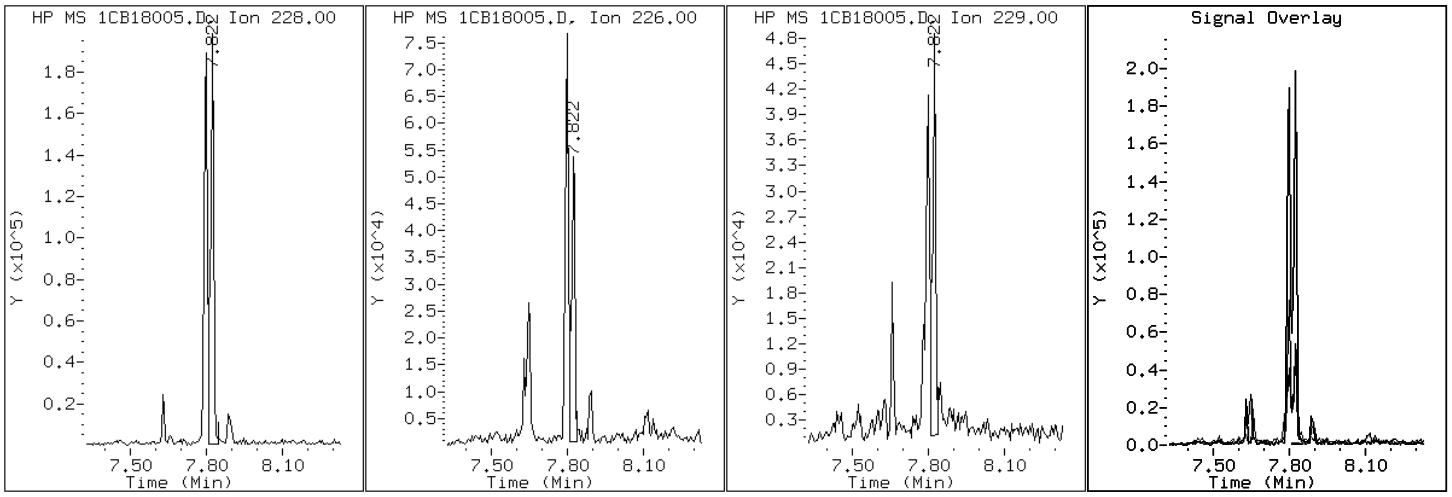
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

19 Chrysene



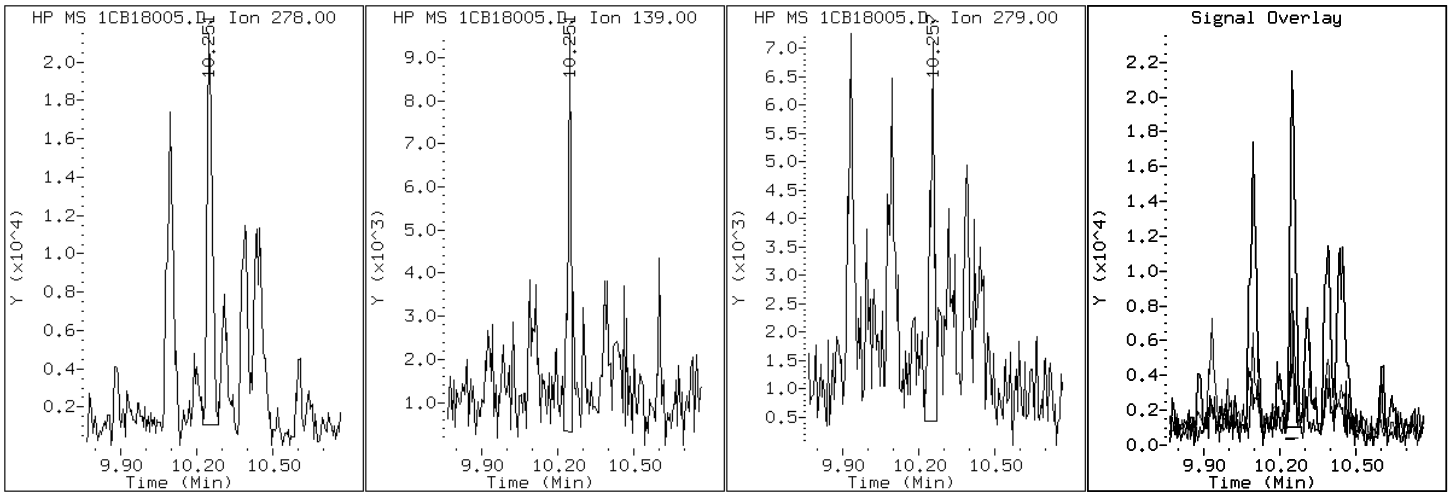
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

25 Dibenzo(a,h)anthracene



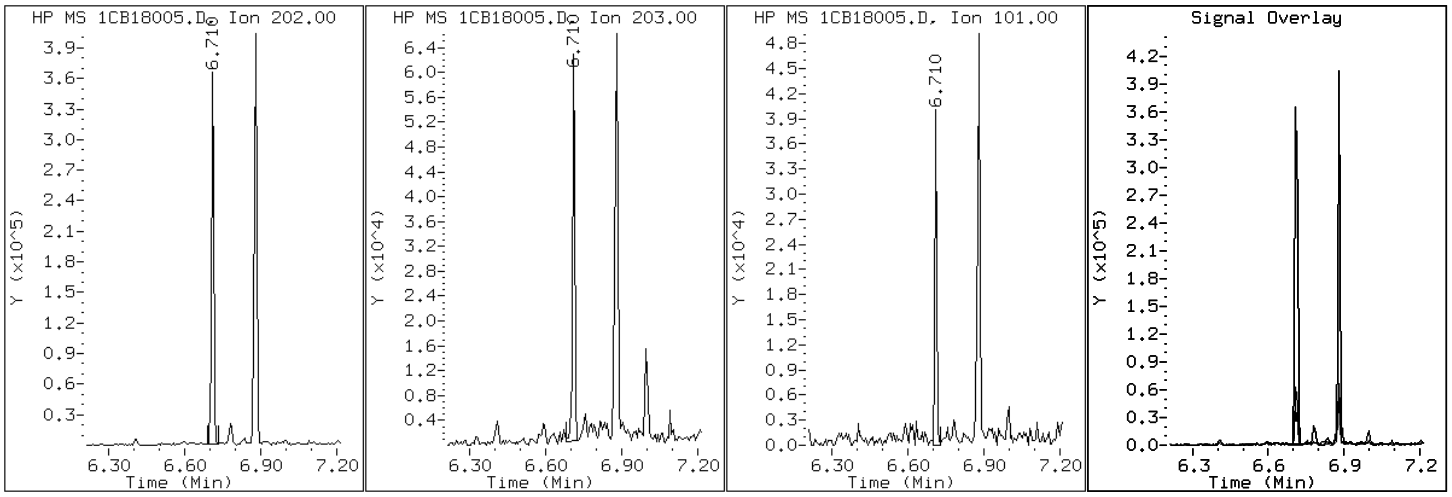
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

15 Fluoranthene



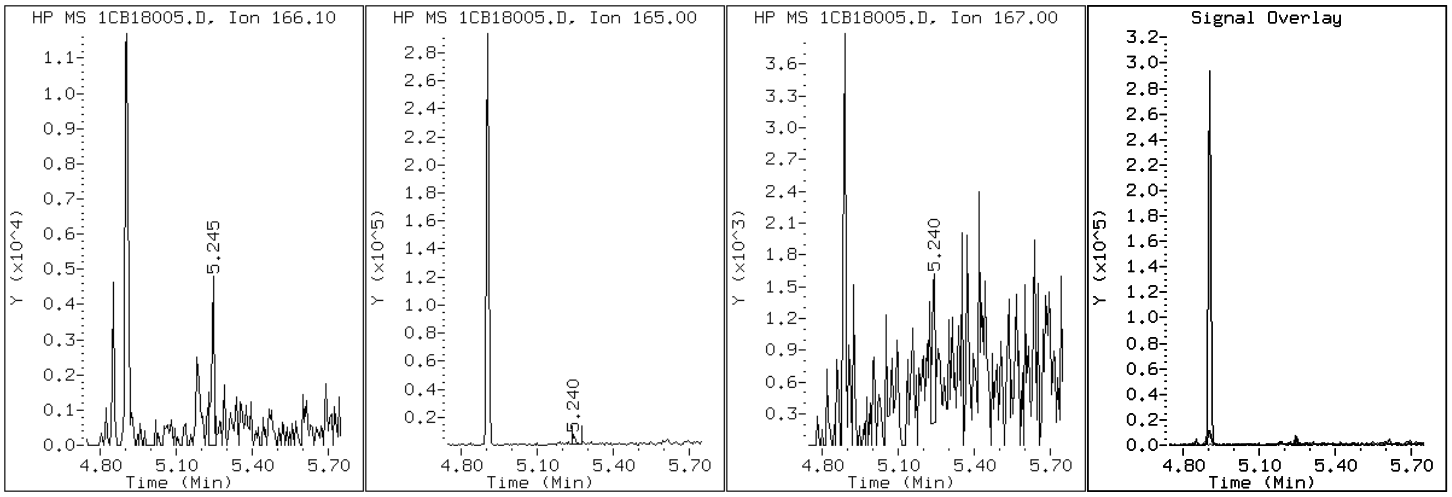
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

9 Fluorene



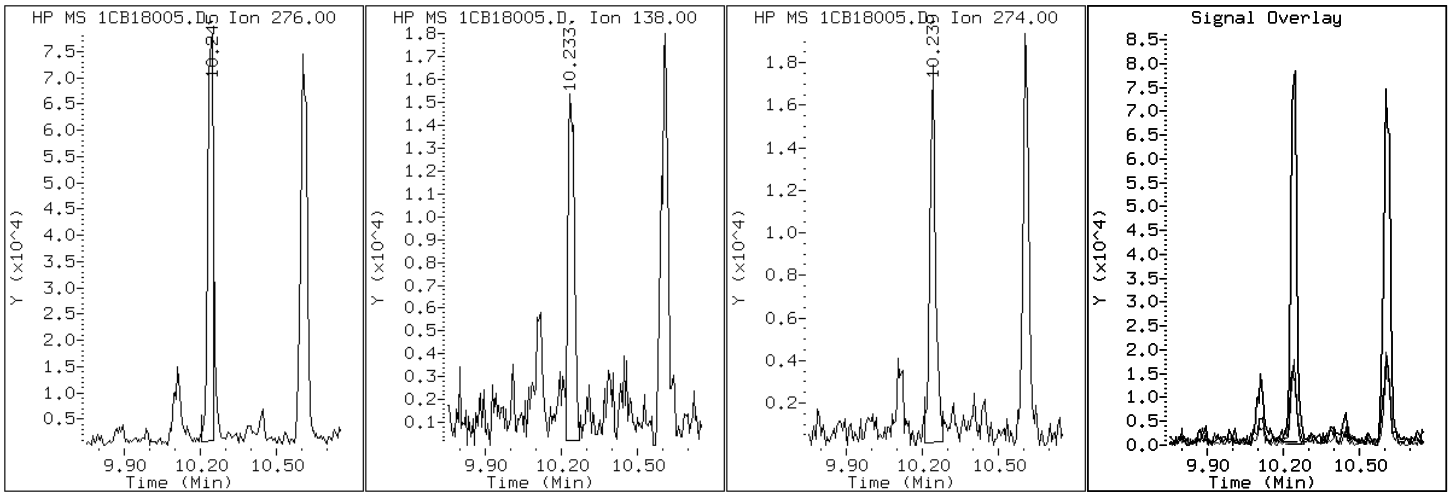
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

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



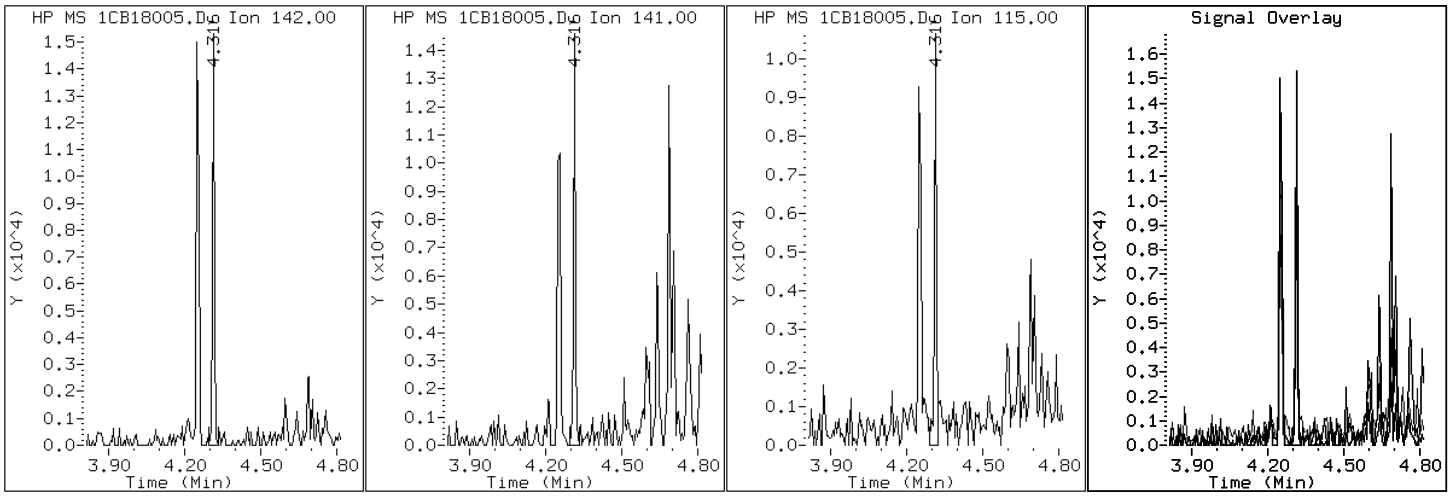
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

4 1-Methylnaphthalene



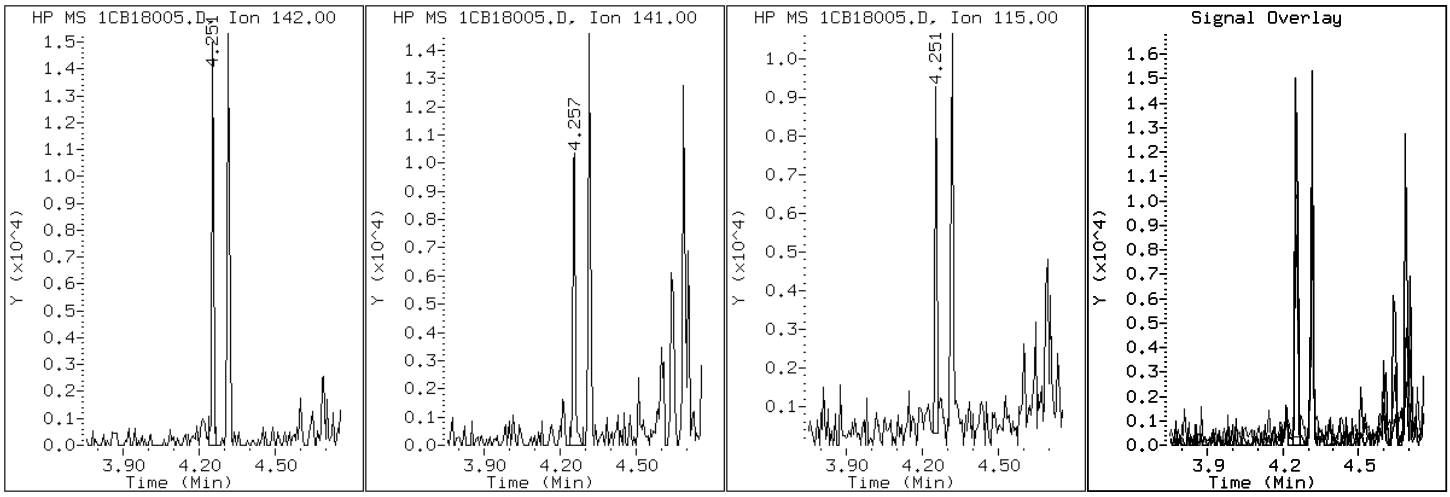
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

3 2-Methylnaphthalene



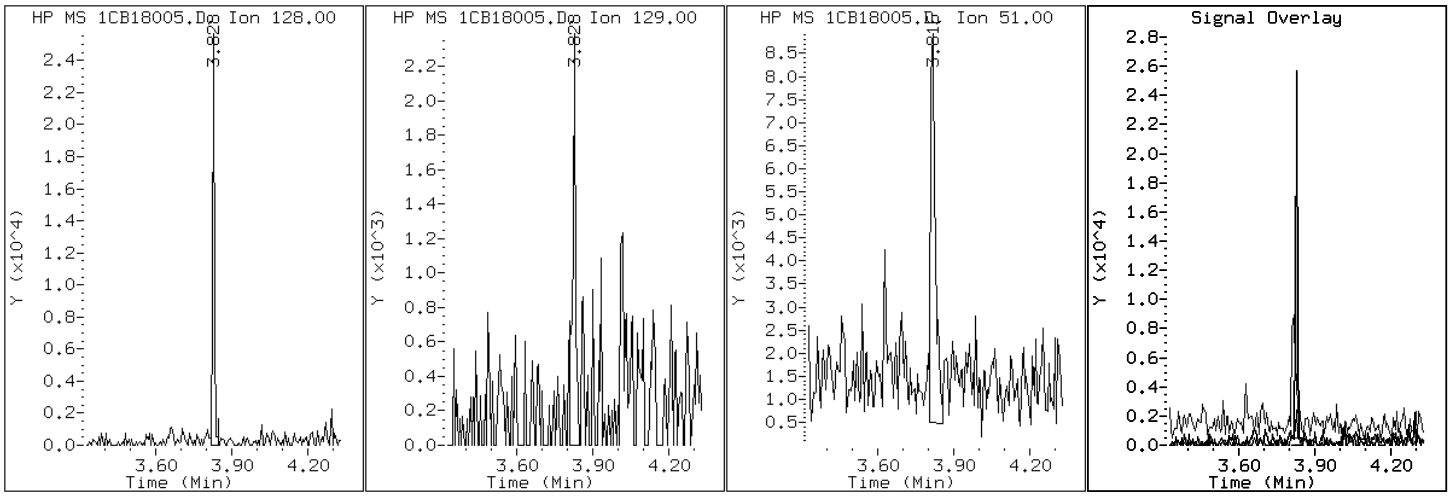
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

2 Naphthalene



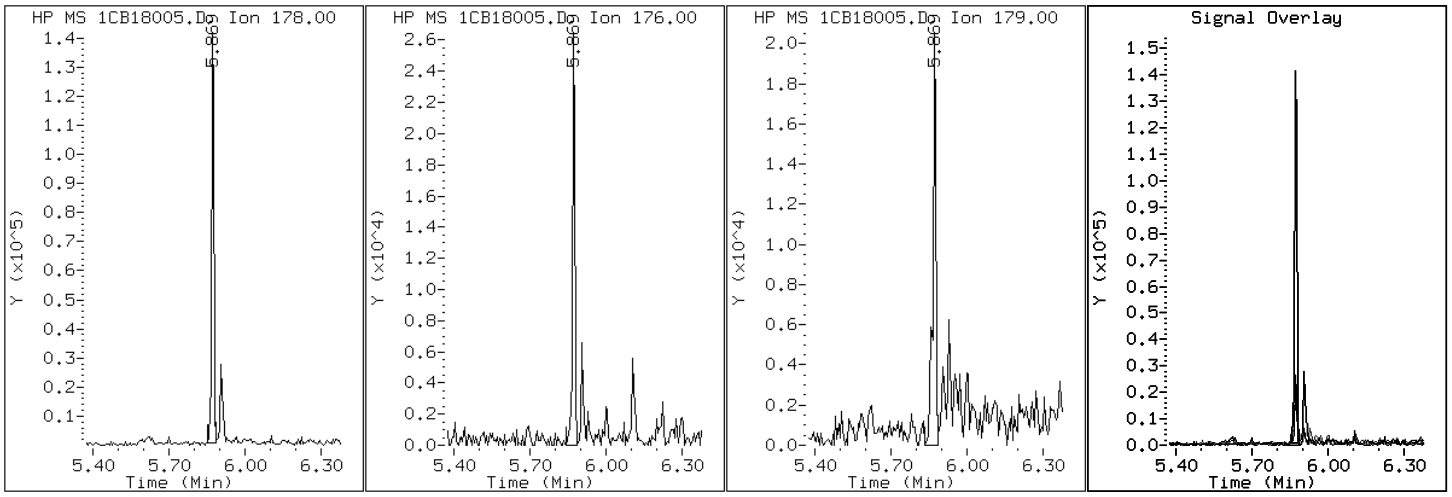
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

11 Phenanthrene



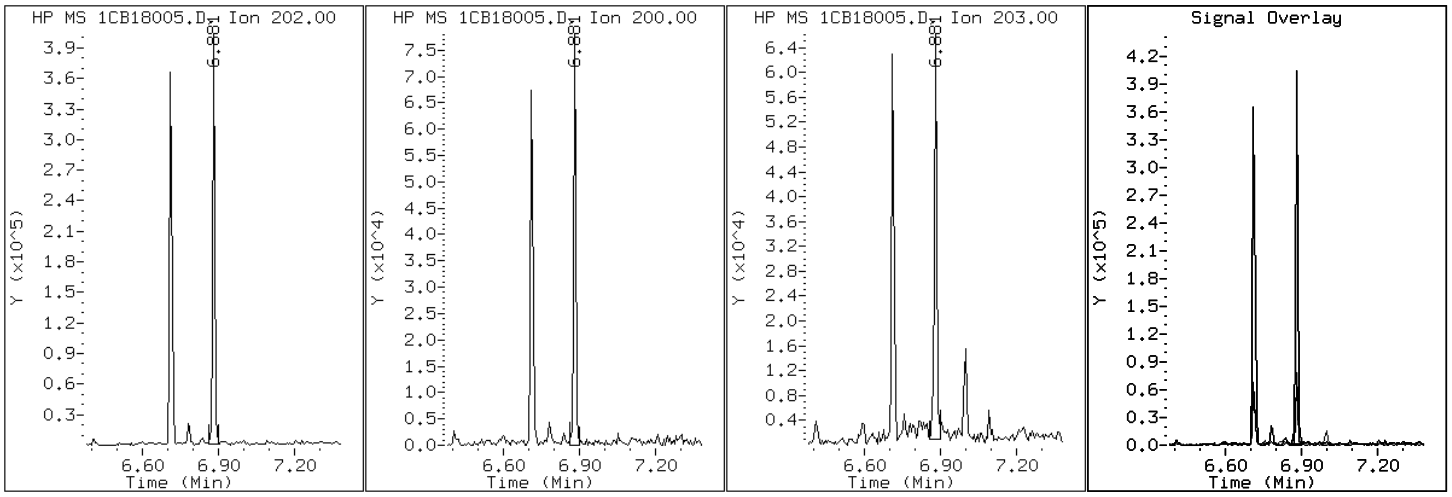
Data File: 1CB18005.D

Date: 18-FEB-2013 14:47

Client ID: CV0005V-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-32-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB18005.D
Inj. Date and Time: 18-FEB-2013 14:47
Instrument ID: BSMC5973.i
Client ID: CV0005V-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

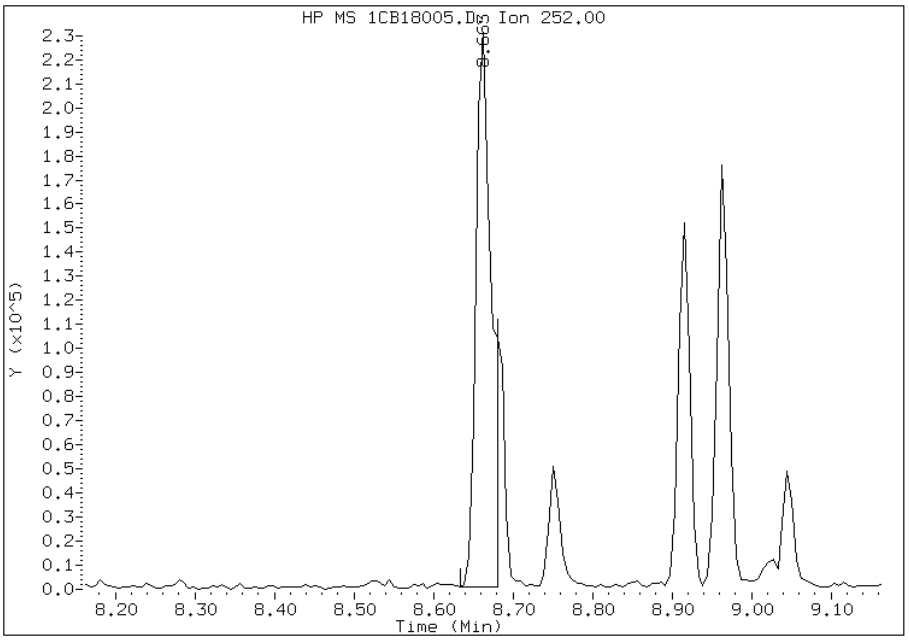
Processing Integration Results

RT: 8.66

Response: 309723

Amount: 4

Conc: 1292



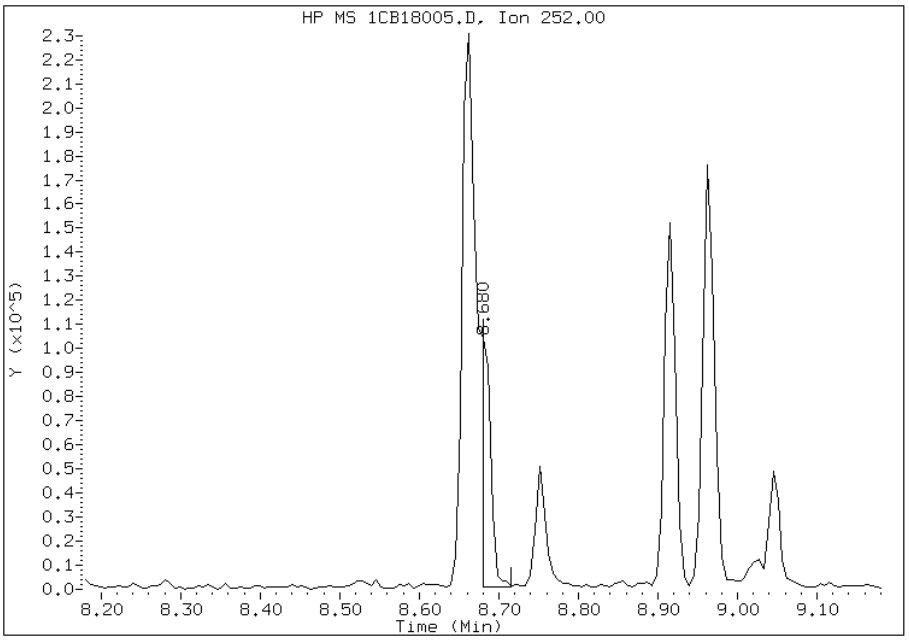
Manual Integration Results

RT: 8.68

Response: 82664

Amount: 1

Conc: 345



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 15:03
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CB18005.D
Inj. Date and Time: 18-FEB-2013 14:47
Instrument ID: BSMC5973.i
Client ID: CV0005V-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

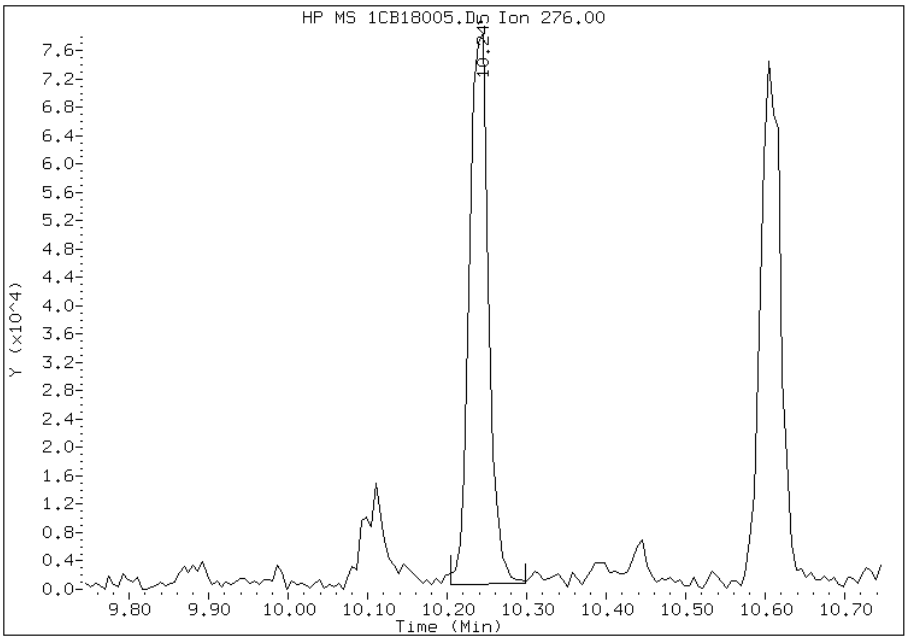
Processing Integration Results

RT: 10.25

Response: 130102

Amount: 2

Conc: 654



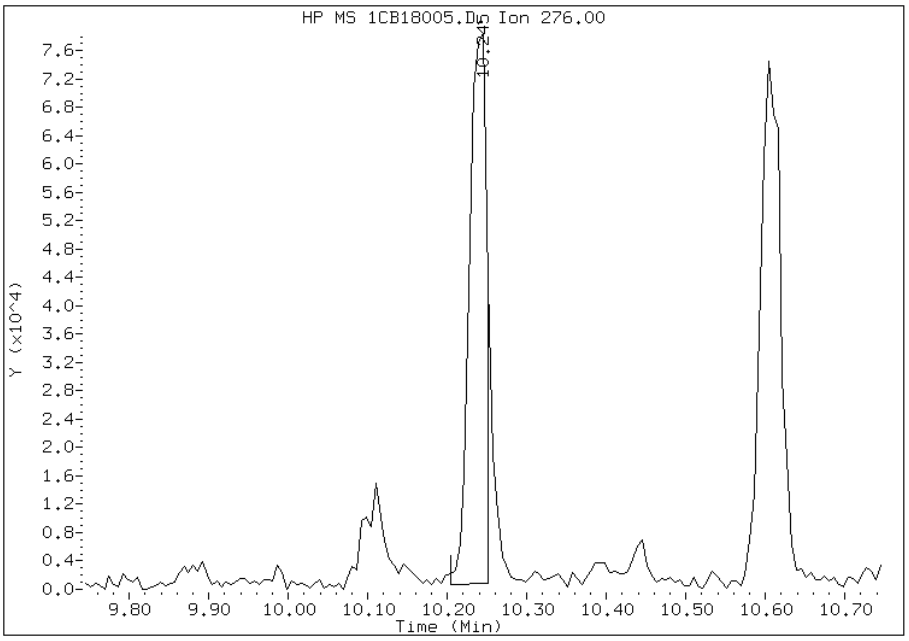
Manual Integration Results

RT: 10.25

Response: 117316

Amount: 2

Conc: 590



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 15:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005W-CS | Lab Sample ID: 680-87318-33

Matrix: Solid | Lab File ID: 1CB18006.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 14:41

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.38(g) | Date Analyzed: 02/18/2013 15:05

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.: 134598 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	94
208-96-8	Acenaphthylene	120	J	190	24
120-12-7	Anthracene	130		40	20
56-55-3	Benzo[a]anthracene	670		38	18
50-32-8	Benzo[a]pyrene	620		49	24
205-99-2	Benzo[b]fluoranthene	950		57	29
191-24-2	Benzo[g,h,i]perylene	480		94	21
207-08-9	Benzo[k]fluoranthene	350		38	17
218-01-9	Chrysene	640		42	21
53-70-3	Dibenz(a,h)anthracene	110		94	19
206-44-0	Fluoranthene	1200		94	19
86-73-7	Fluorene	53	J	94	19
193-39-5	Indeno[1,2,3-cd]pyrene	360		94	33
90-12-0	1-Methylnaphthalene	150	J	190	21
91-57-6	2-Methylnaphthalene	160	J	190	33
91-20-3	Naphthalene	110	J	190	21
85-01-8	Phenanthrene	560		38	18
129-00-0	Pyrene	1100		94	17

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18006.D
Lab Smp Id: 680-87318-A-33-A Client Smp ID: CV0005W-CS
Inj Date : 18-FEB-2013 15:05
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87318-A-33-A
Misc Info : 680-87318-A-33-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\a-bFASTPAHi-m.m
Meth Date : 18-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 6
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.380	Weight Extracted
M	17.047	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	2362031	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1846523	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	3498565	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	70175	1.36895	429.1975
* 18 Chrysene-d12	240	7.804	7.809	(1.000)	3918953	40.0000	
* 23 Perylene-d12	264	9.027	9.027	(1.000)	3936003	40.0000	
2 Naphthalene	128	3.827	3.827	(1.003)	22720	0.36299	113.8068
3 2-Methylnaphthalene	142	4.251	4.257	(1.114)	20184	0.49595	155.4906
4 1-Methylnaphthalene	142	4.316	4.315	(1.131)	18006	0.48646	152.5169
5 Acenaphthylene	152	4.816	4.815	(0.982)	28123	0.38282	120.0234
9 Fluorene	166	5.239	5.245	(1.068)	9946	0.16817	52.7240
11 Phenanthrene	178	5.868	5.874	(1.002)	187235	1.79293	562.1246
12 Anthracene	178	5.904	5.909	(1.008)	39787	0.42287	132.5797
13 Carbazole	167	6.010	6.015	(1.026)	22837	0.27943	87.6082

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.710	6.715	(1.146)	403859	3.95776	1240.8494
16 Pyrene	202	6.880	6.880	(0.882)	367683	3.52416	1104.9069
17 Benzo(a)anthracene	228	7.798	7.798	(0.999)	232291	2.14944	673.8994
19 Chrysene	228	7.821	7.827	(1.002)	228217	2.04438	640.9626
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	291015	3.01576	945.5126(M)
21 Benzo(k)fluoranthene	252	8.680	8.686	(0.962)	120111	1.12983	354.2286(M)
22 Benzo(a)pyrene	252	8.962	8.968	(0.993)	182509	1.98761	623.1632
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.250	(1.134)	99948	1.13327	355.3071(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.268	(1.136)	28977	0.34841	109.2353
26 Benzo(g,h,i)perylene	276	10.609	10.621	(1.175)	137994	1.54032	482.9272

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB18006.D

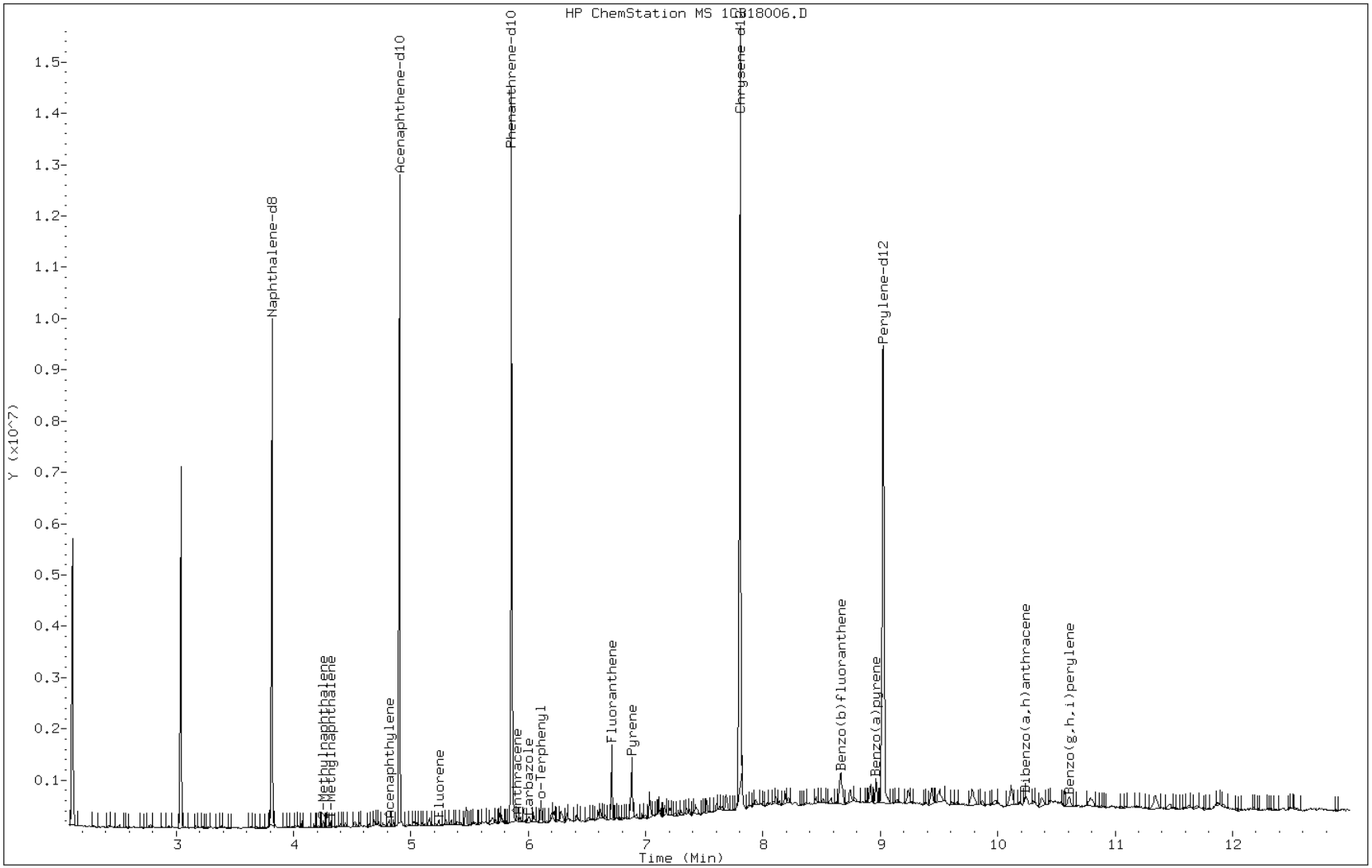
Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS

Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A

Operator: SCC



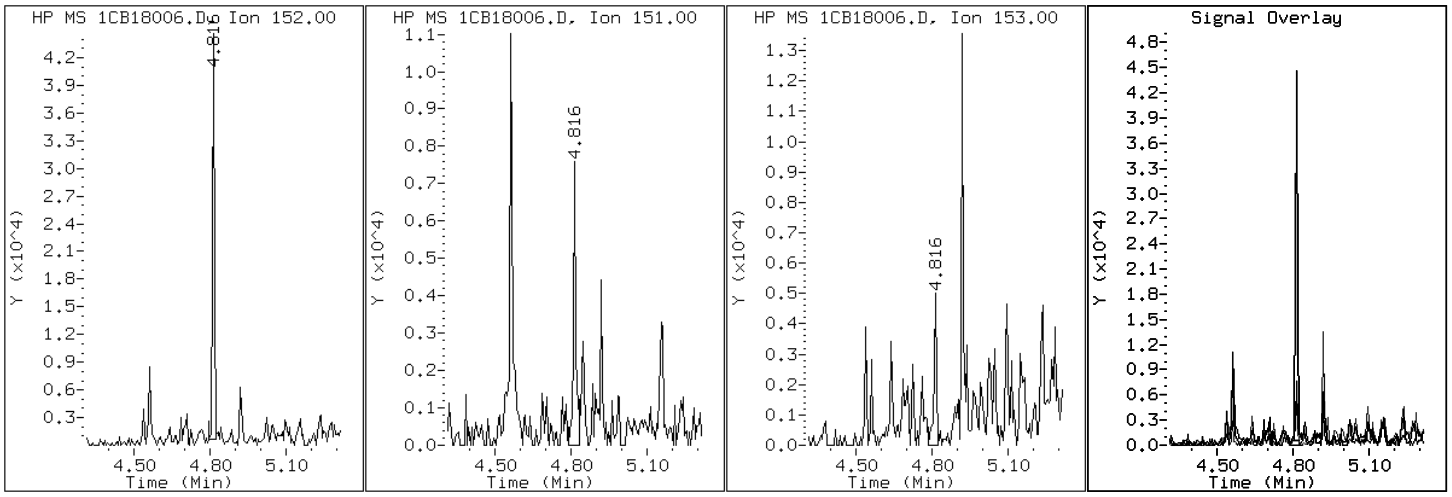
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

5 Acenaphthylene



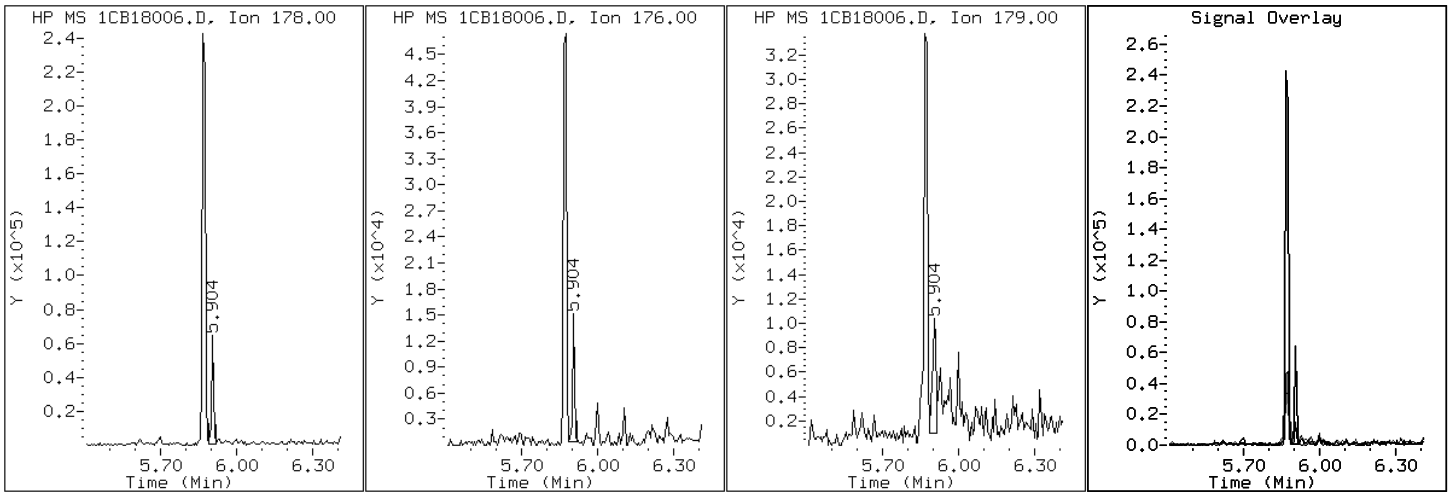
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

12 Anthracene



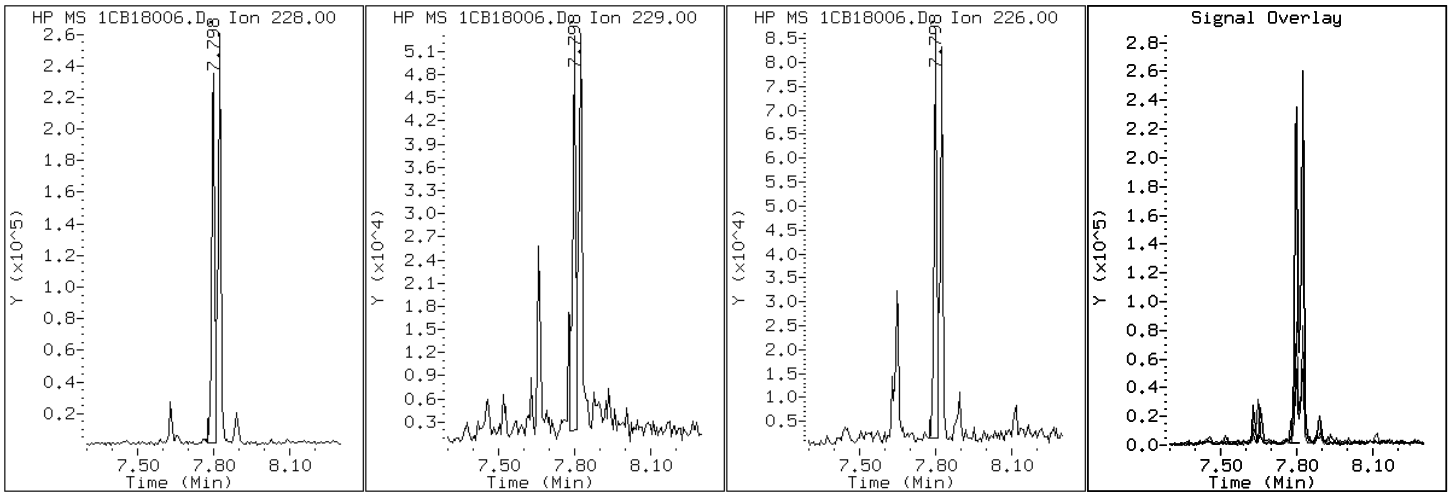
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

17 Benzo(a)anthracene



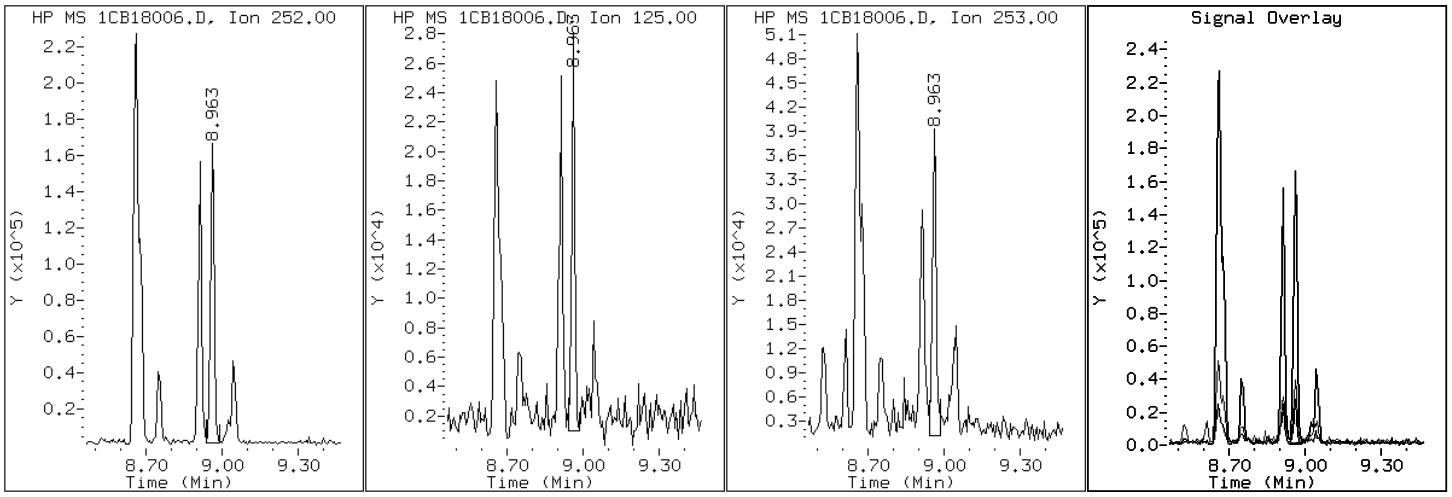
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

22 Benzo(a)pyrene



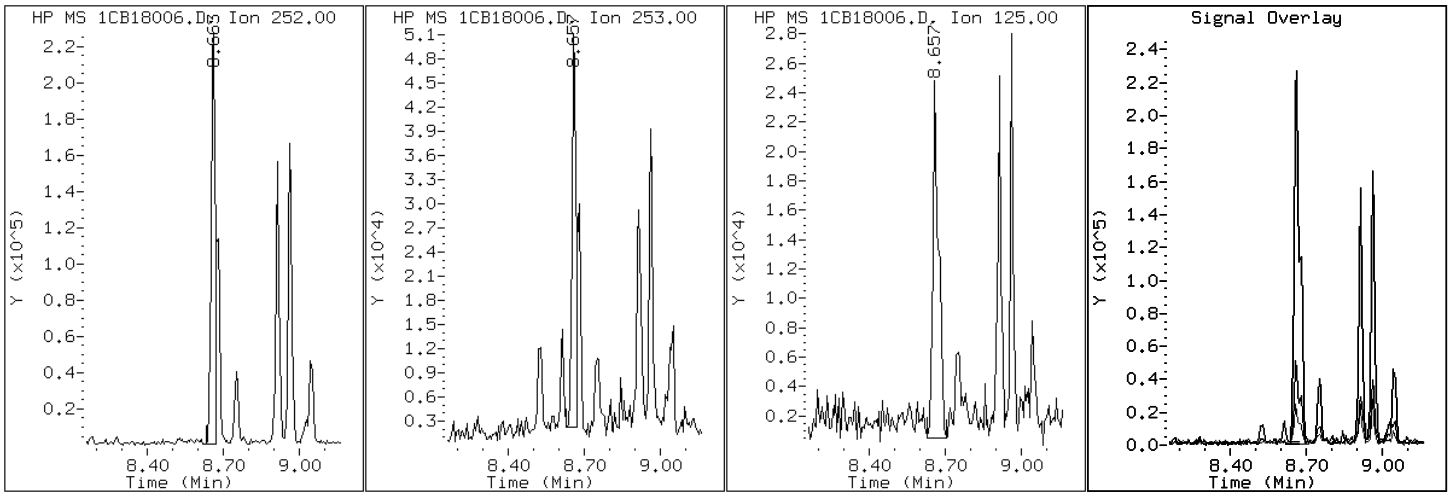
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

20 Benzo(b)fluoranthene



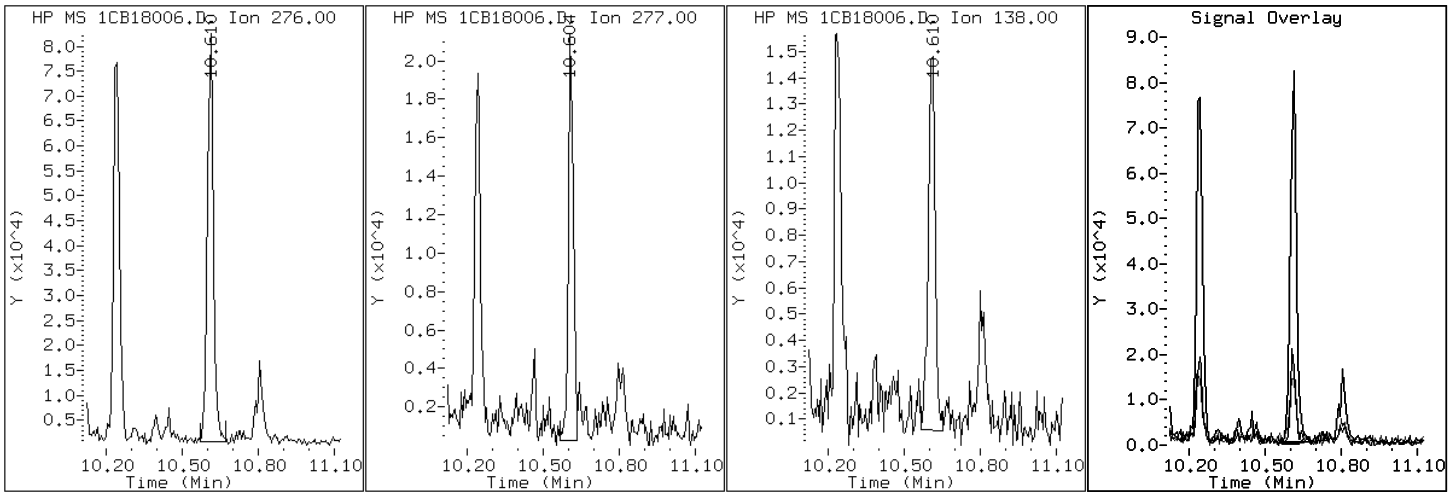
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

26 Benzo(g,h,i)perylene



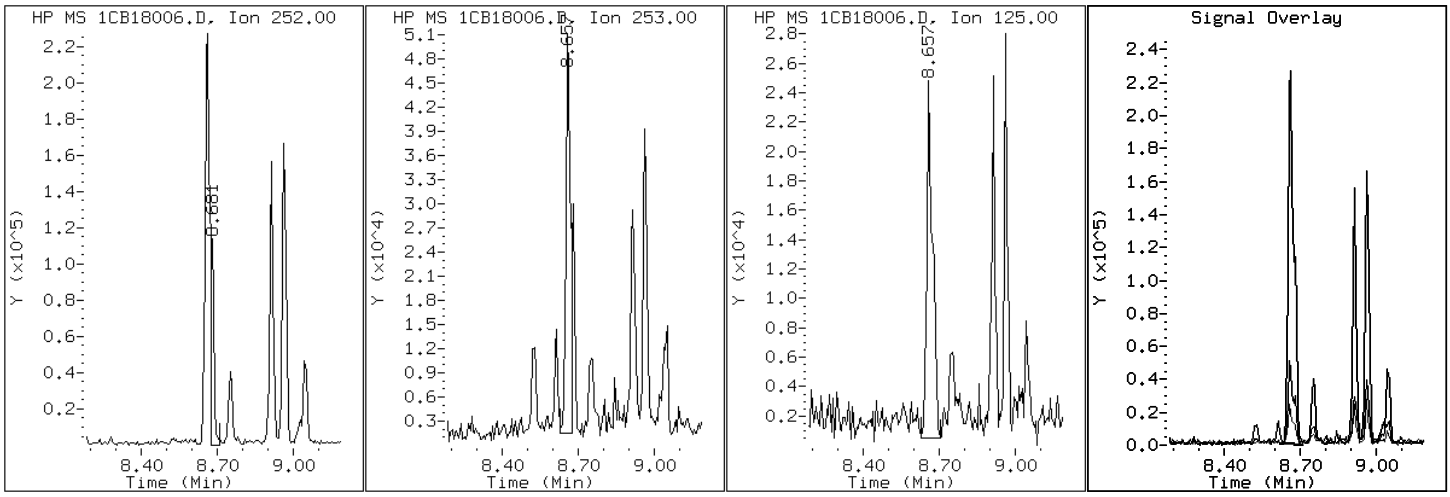
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

21 Benzo(k)fluoranthene



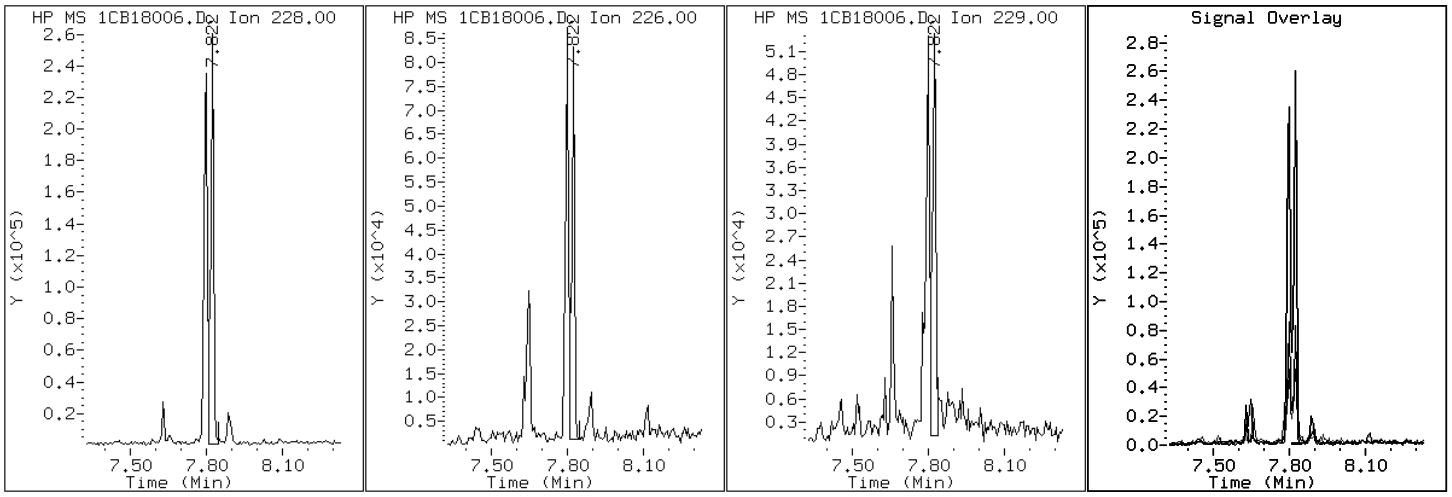
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

19 Chrysene



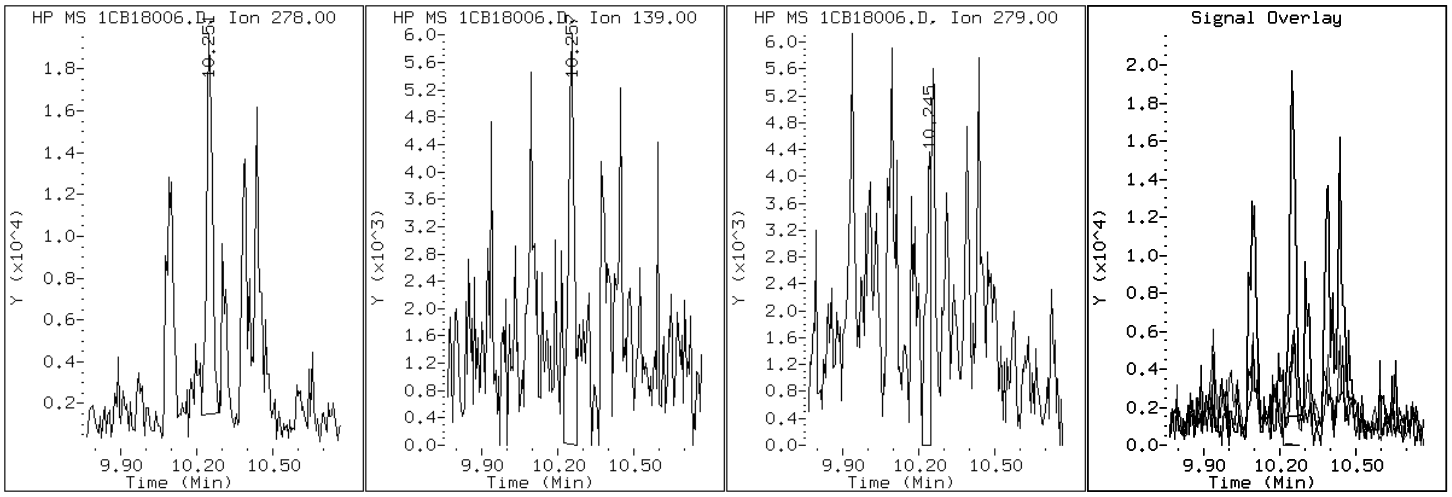
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

25 Dibenzo(a,h)anthracene



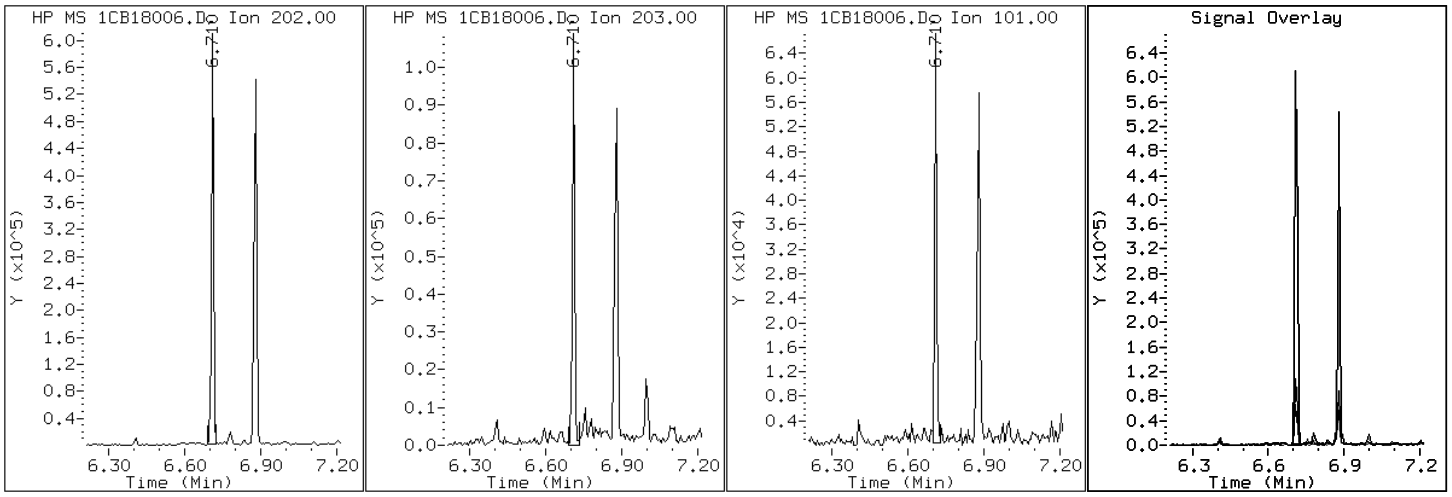
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

15 Fluoranthene



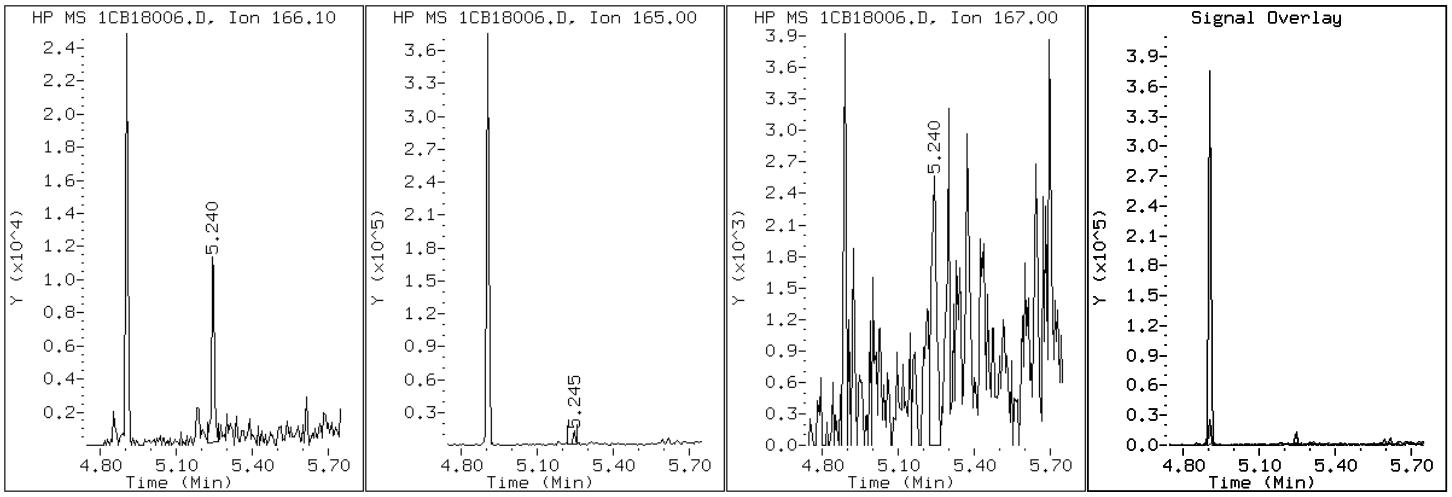
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

9 Fluorene



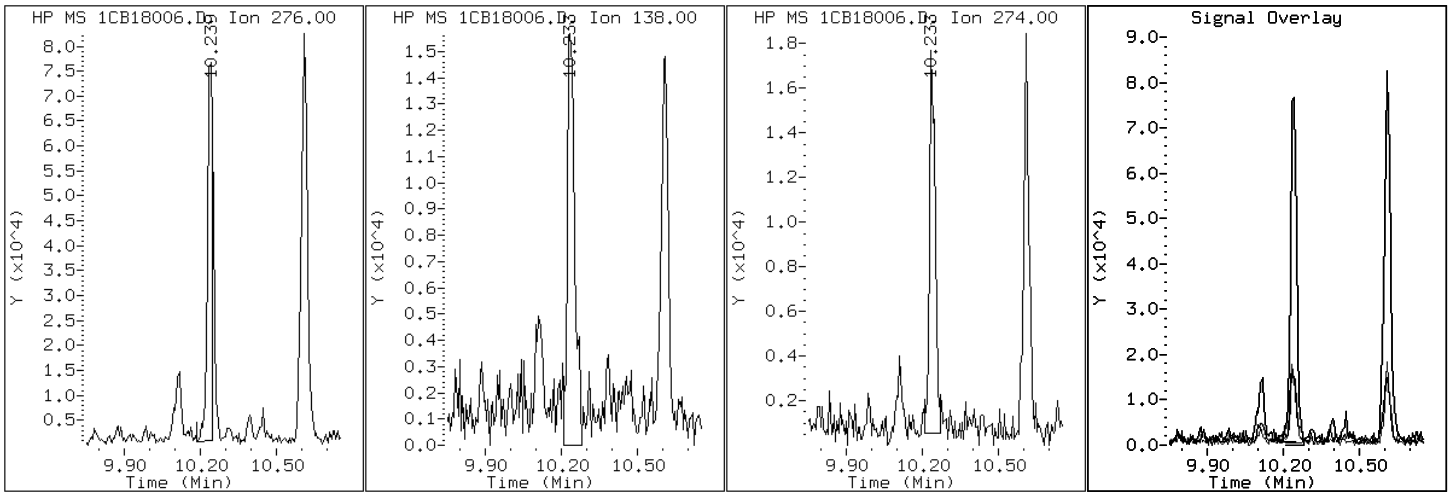
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

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



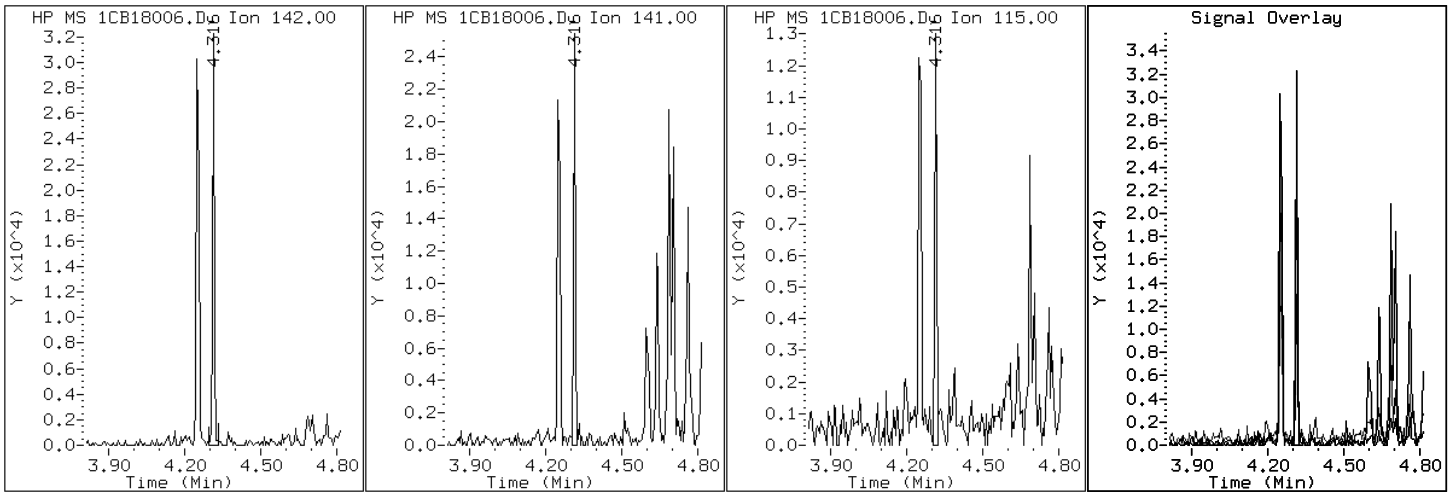
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

4 1-Methylnaphthalene



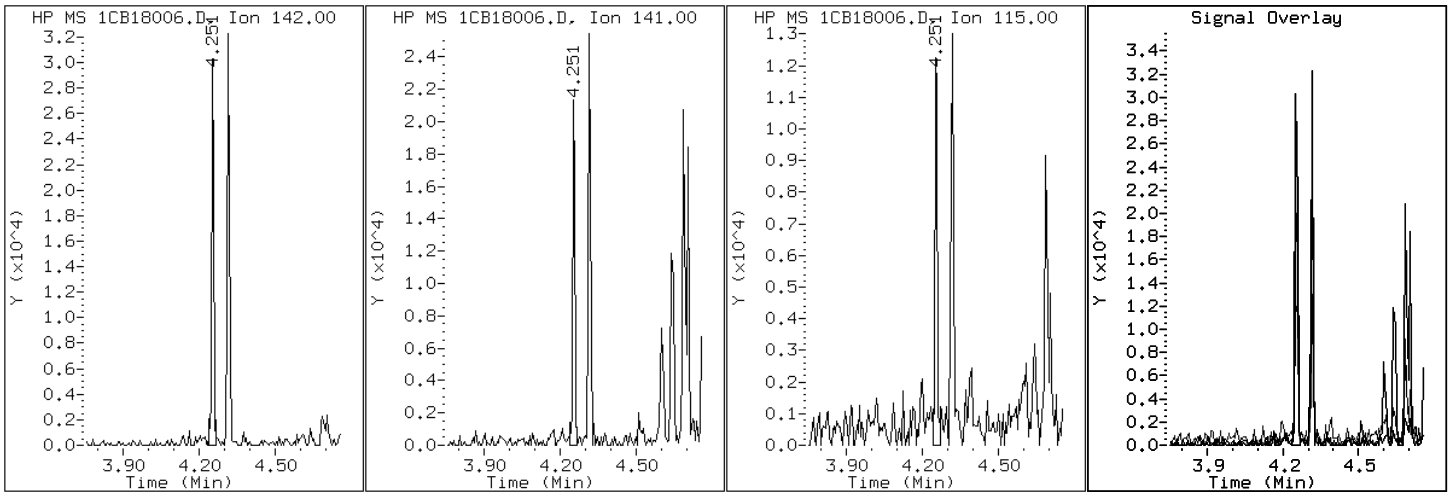
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

3 2-Methylnaphthalene



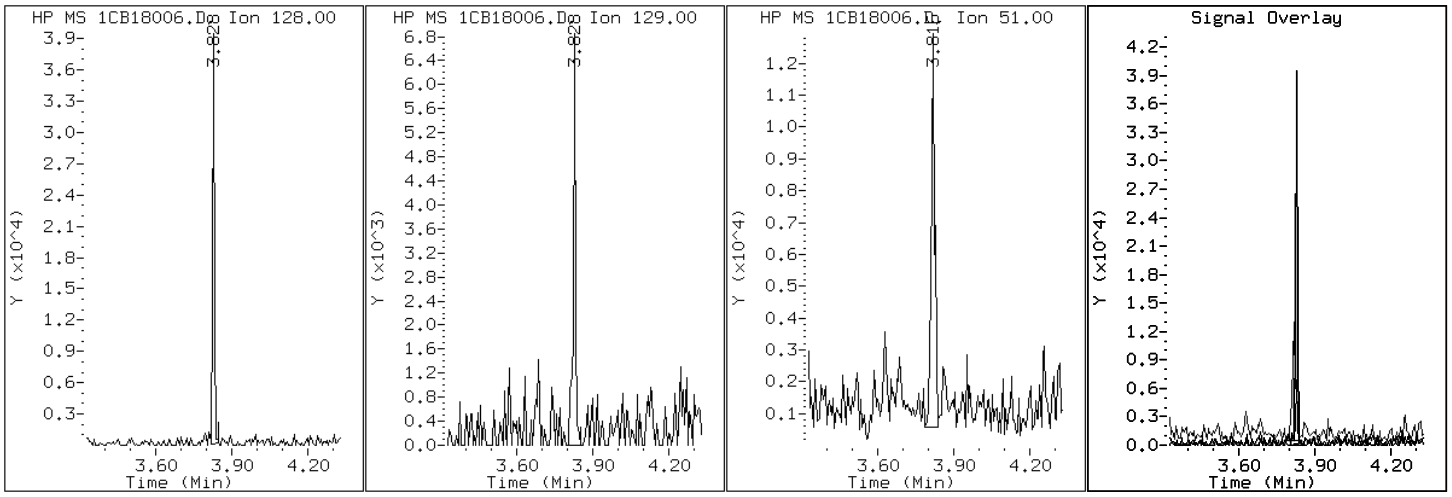
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

2 Naphthalene



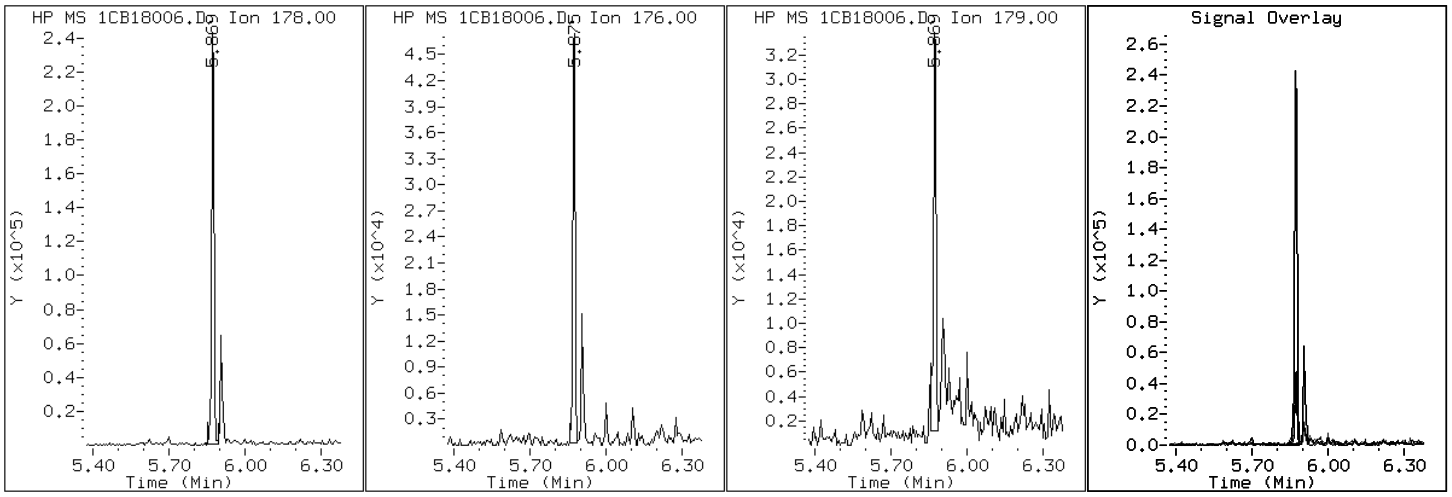
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

11 Phenanthrene



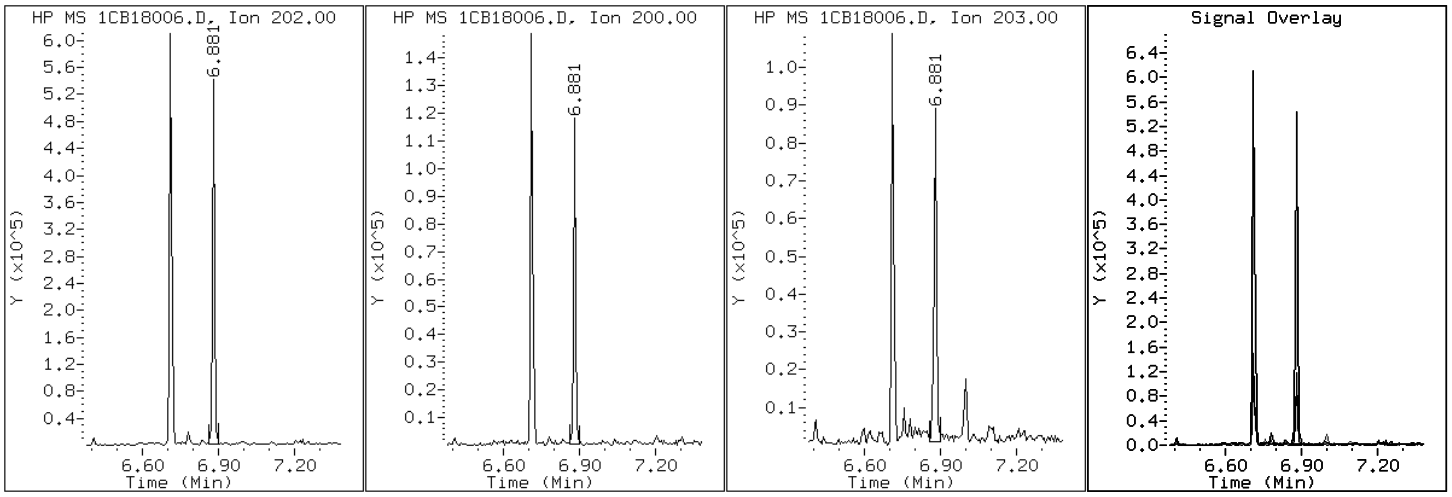
Data File: 1CB18006.D

Date: 18-FEB-2013 15:05

Client ID: CV0005W-CS Instrument: BSMC5973.i

Sample Info: 680-87318-A-33-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB18006.D
Inj. Date and Time: 18-FEB-2013 15:05
Instrument ID: BSMC5973.i
Client ID: CV0005W-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

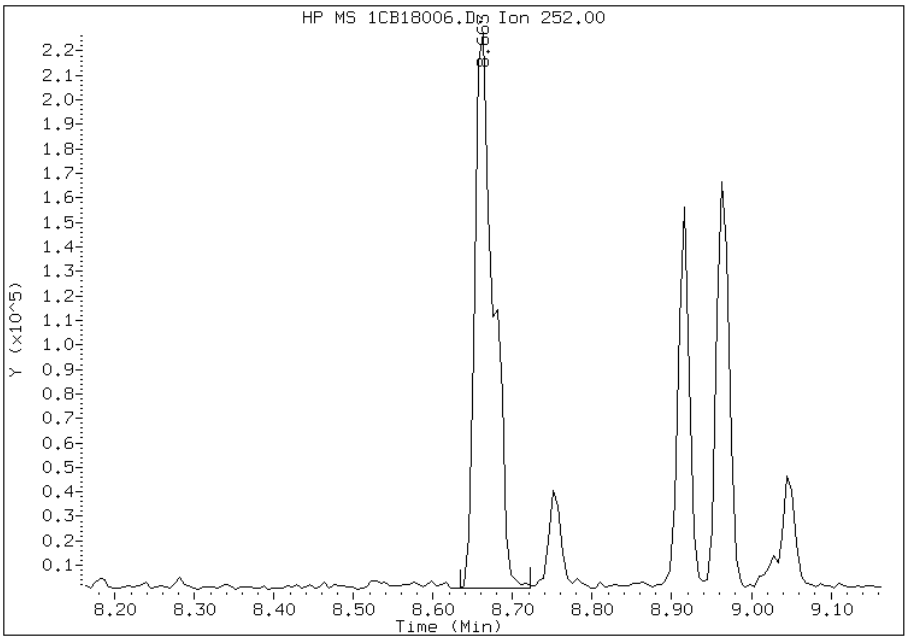
Processing Integration Results

RT: 8.66

Response: 371129

Amount: 4

Conc: 1206



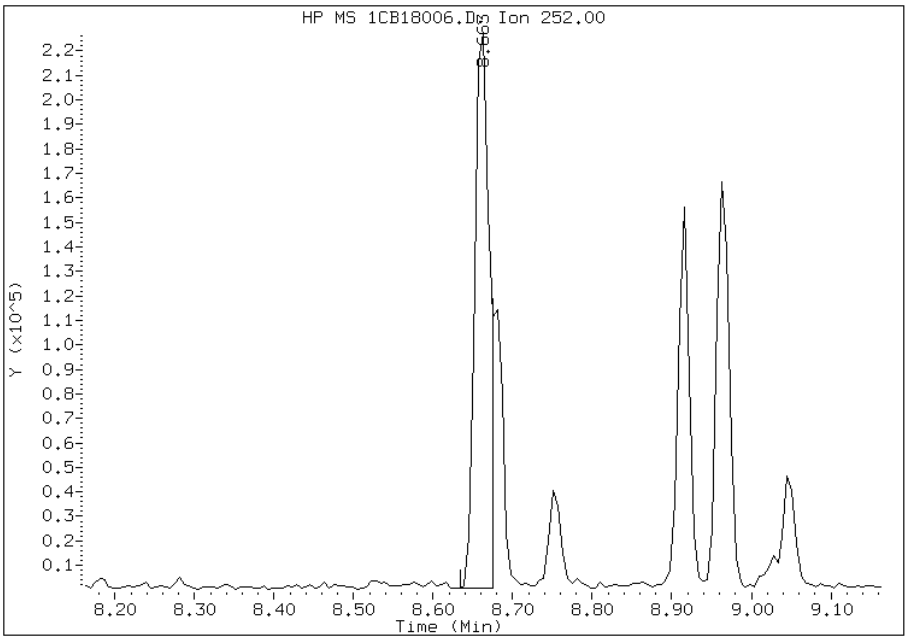
Manual Integration Results

RT: 8.66

Response: 291015

Amount: 3

Conc: 946



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 15:33
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB18006.D
Inj. Date and Time: 18-FEB-2013 15:05
Instrument ID: BSMC5973.i
Client ID: CV0005W-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

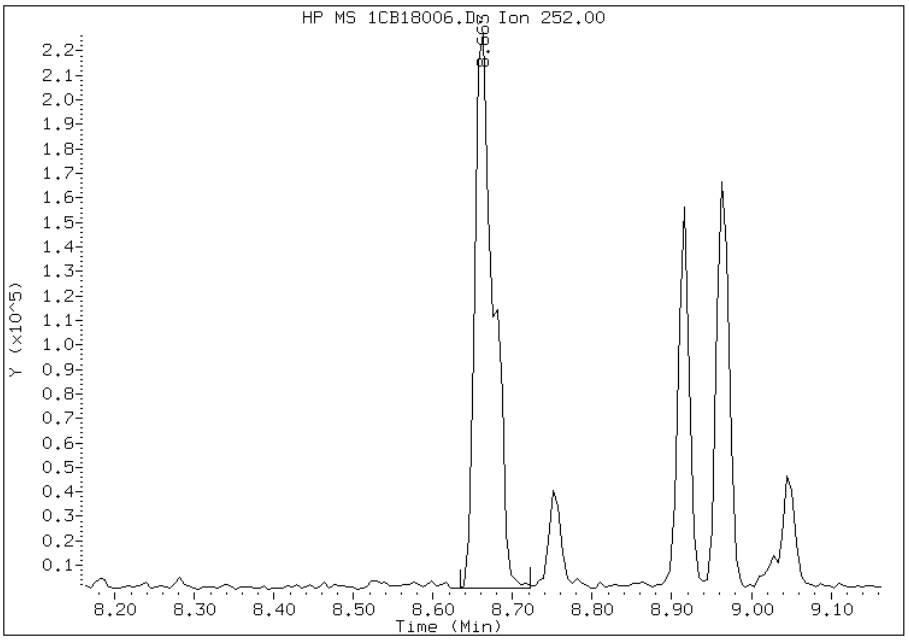
Processing Integration Results

RT: 8.66

Response: 371129

Amount: 3

Conc: 1095



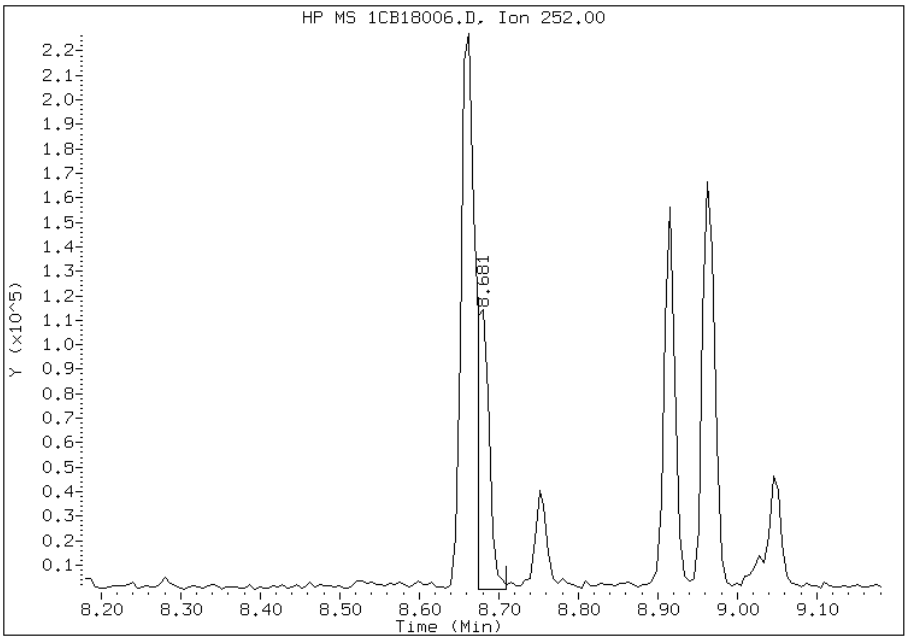
Manual Integration Results

RT: 8.68

Response: 120111

Amount: 1

Conc: 354



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 15:33
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB18006.D
Inj. Date and Time: 18-FEB-2013 15:05
Instrument ID: BSMC5973.i
Client ID: CV0005W-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

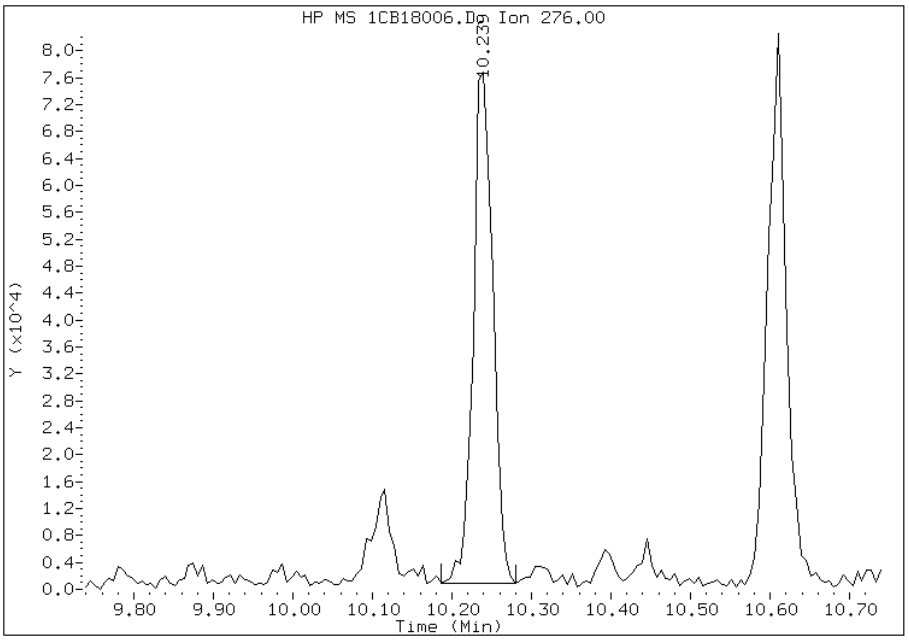
Processing Integration Results

RT: 10.24

Response: 128786

Amount: 1

Conc: 458



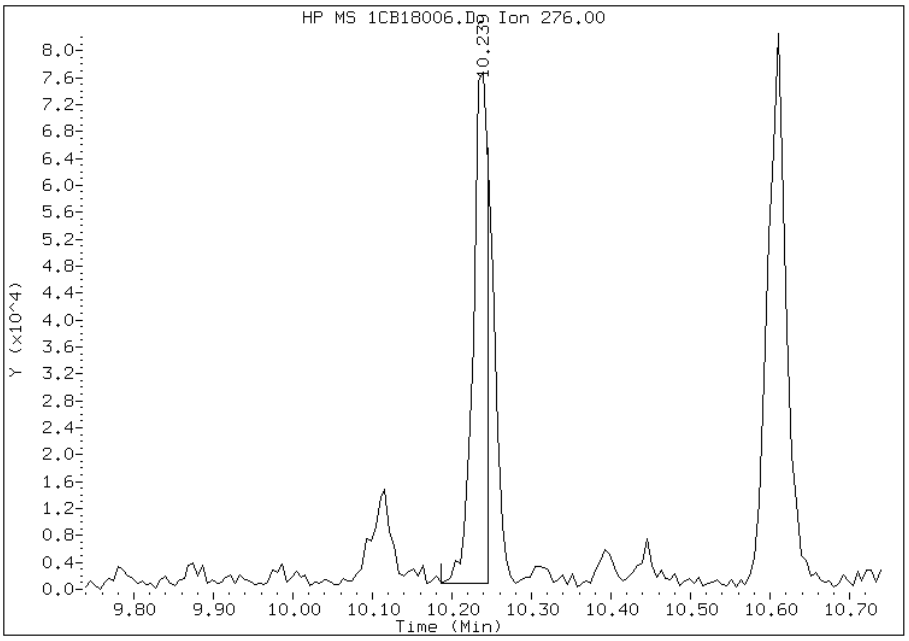
Manual Integration Results

RT: 10.24

Response: 99948

Amount: 1

Conc: 355



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 15:33
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005X-CS | Lab Sample ID: 680-87318-34

Matrix: Solid | Lab File ID: 1AB15043.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 15:00

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.25(g) | Date Analyzed: 02/16/2013 00:41

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

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

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

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	83	J	200	25
120-12-7	Anthracene	130		43	21
56-55-3	Benzo[a]anthracene	400		41	20
50-32-8	Benzo[a]pyrene	310		53	26
205-99-2	Benzo[b]fluoranthene	580		62	31
191-24-2	Benzo[g,h,i]perylene	270		100	22
207-08-9	Benzo[k]fluoranthene	150		41	18
218-01-9	Chrysene	470		46	23
53-70-3	Dibenz(a,h)anthracene	120		100	21
206-44-0	Fluoranthene	660		100	20
86-73-7	Fluorene	33	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	270		100	36
90-12-0	1-Methylnaphthalene	180	J	200	22
91-57-6	2-Methylnaphthalene	210		200	36
91-20-3	Naphthalene	150	J	200	22
85-01-8	Phenanthrene	560		41	20
129-00-0	Pyrene	520		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	77		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15043.D
Lab Smp Id: 680-87318-A-34-A Client Smp ID: CV0005X-CS
Inj Date : 16-FEB-2013 00:41
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-34-a
Misc Info : 680-87318-A-34-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 40
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	22.575	% 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	2.426	2.415	(1.000)	757125	40.0000	
* 6 Acenaphthene-d10	164	3.451	3.441	(1.000)	559421	40.0000	
* 10 Phenanthrene-d10	188	4.397	4.386	(1.000)	808352	40.0000	
$ 14 o-Terphenyl	230	4.675	4.664	(1.063)	22472	1.91320	648.1380
* 18 Chrysene-d12	240	6.427	6.411	(1.000)	721065	40.0000	
* 23 Perylene-d12	264	7.527	7.501	(1.000)	887706	40.0000	(H)
2 Naphthalene	128	2.436	2.426	(1.004)	8141	0.44299	150.0743
3 2-Methylnaphthalene	141	2.837	2.832	(1.170)	6036	0.61310	207.7014
4 1-Methylnaphthalene	142	2.890	2.885	(1.192)	5928	0.53192	180.1996
5 Acenaphthylene	152	3.366	3.355	(0.975)	6072	0.24582	83.2759
9 Fluorene	166	3.777	3.772	(1.094)	1637	0.09738	32.9887(Q)
11 Phenanthrene	178	4.408	4.402	(1.002)	36770	1.66595	564.3784
12 Anthracene	178	4.440	4.434	(1.010)	8539	0.37946	128.5497
13 Carbazole	167	4.600	4.589	(1.046)	5312	0.27538	93.2922

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.273	5.262	(1.199)	42329	1.93438	655.3132
16 Pyrene	202	5.444	5.433	(0.847)	39706	1.52474	516.5379
17 Benzo(a)anthracene	228	6.416	6.395	(0.998)	25259	1.17320	397.4472
19 Chrysene	228	6.438	6.427	(1.002)	28833	1.37393	465.4493
20 Benzo(b)fluoranthene	252	7.239	7.217	(0.962)	42379	1.71048	579.4632(MH)
21 Benzo(k)fluoranthene	252	7.255	7.239	(0.964)	11256	0.43452	147.2046(QMH)
22 Benzo(a)pyrene	252	7.474	7.452	(0.993)	21757	0.92474	313.2757(H)
24 Indeno(1,2,3-cd)pyrene	276	8.270	8.238	(1.099)	15025	0.80874	273.9802(MH)
25 Dibenzo(a,h)anthracene	278	8.275	8.254	(1.099)	6428	0.34610	117.2483(H)
26 Benzo(g,h,i)perylene	276	8.484	8.446	(1.127)	15526	0.80667	273.2786(H)

QC Flag Legend

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

Data File: 1AB15043.D

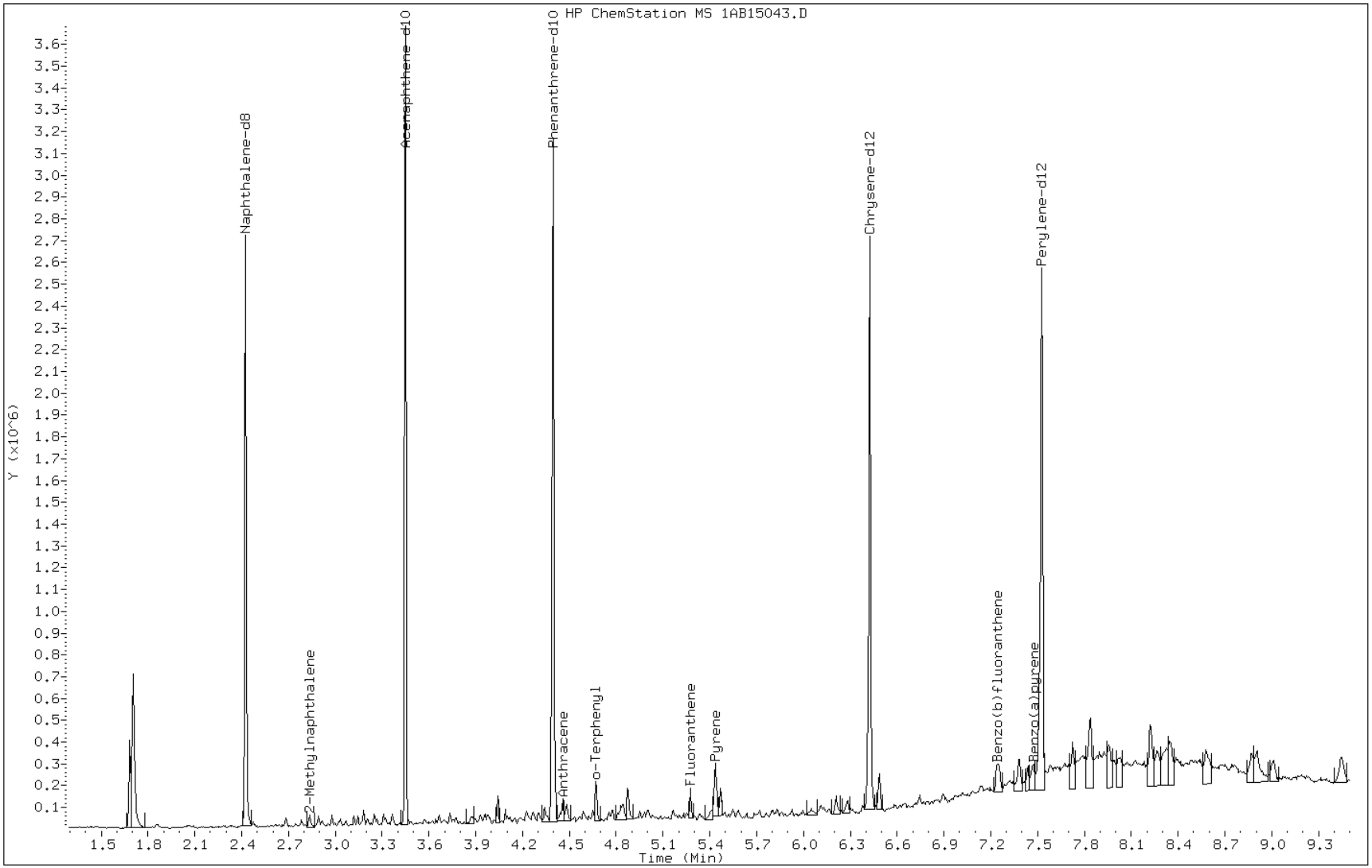
Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a

Operator: SCC



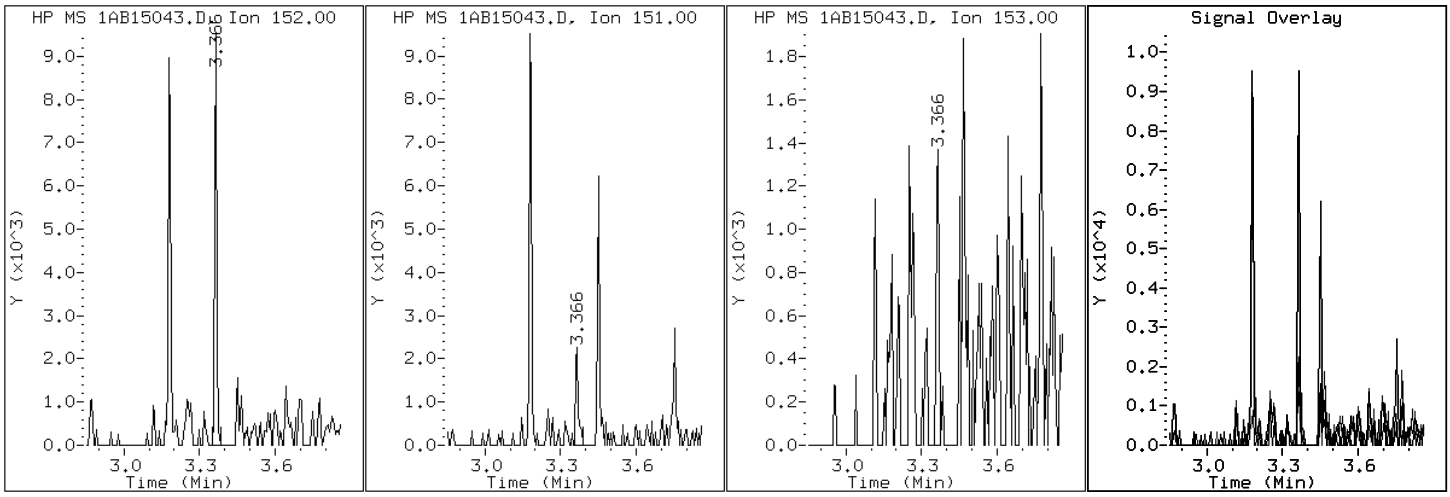
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

5 Acenaphthylene



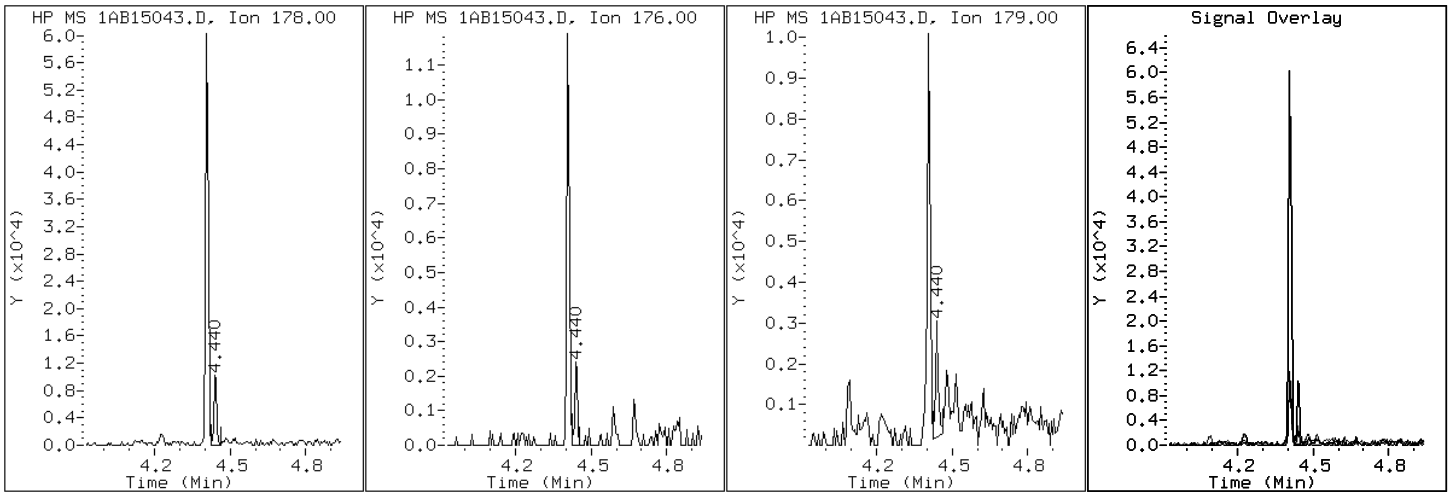
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

12 Anthracene



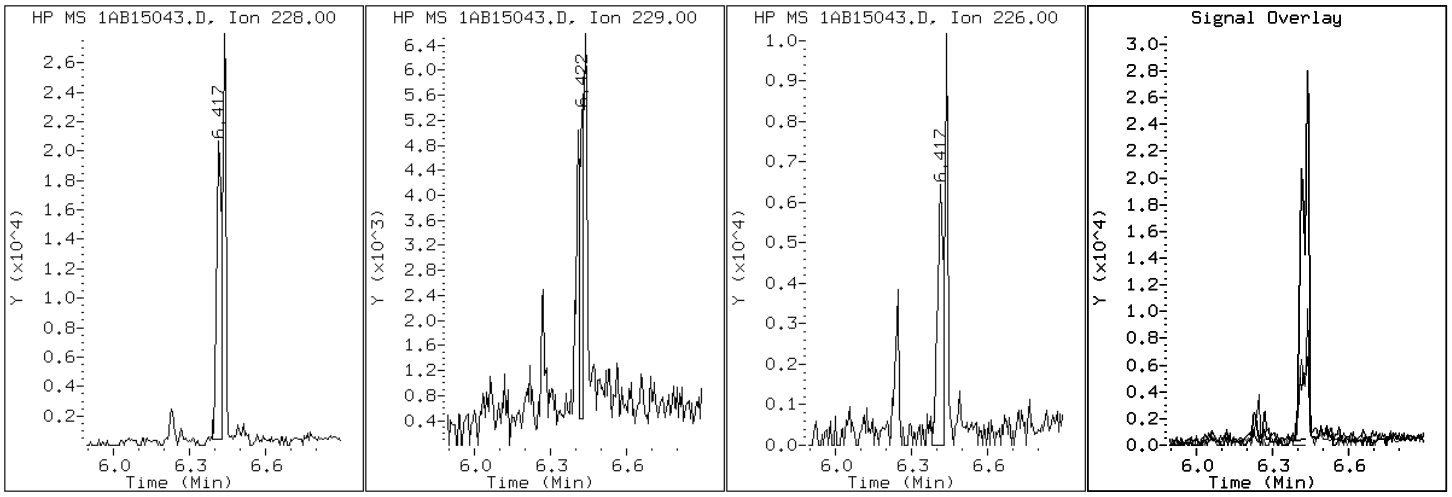
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

17 Benzo(a)anthracene



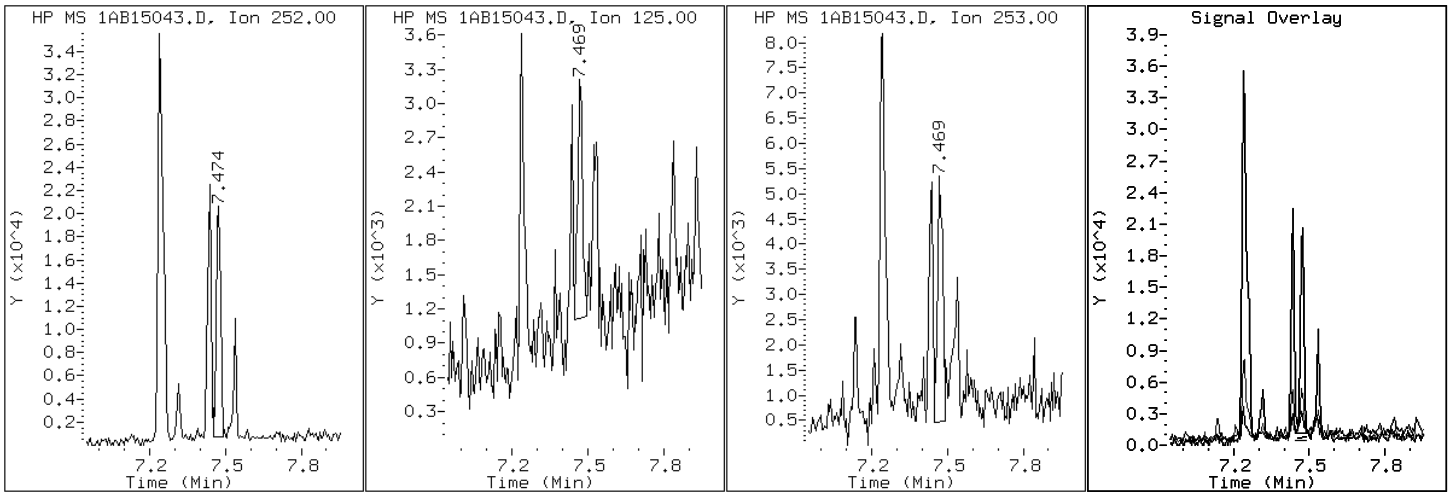
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

22 Benzo(a)pyrene



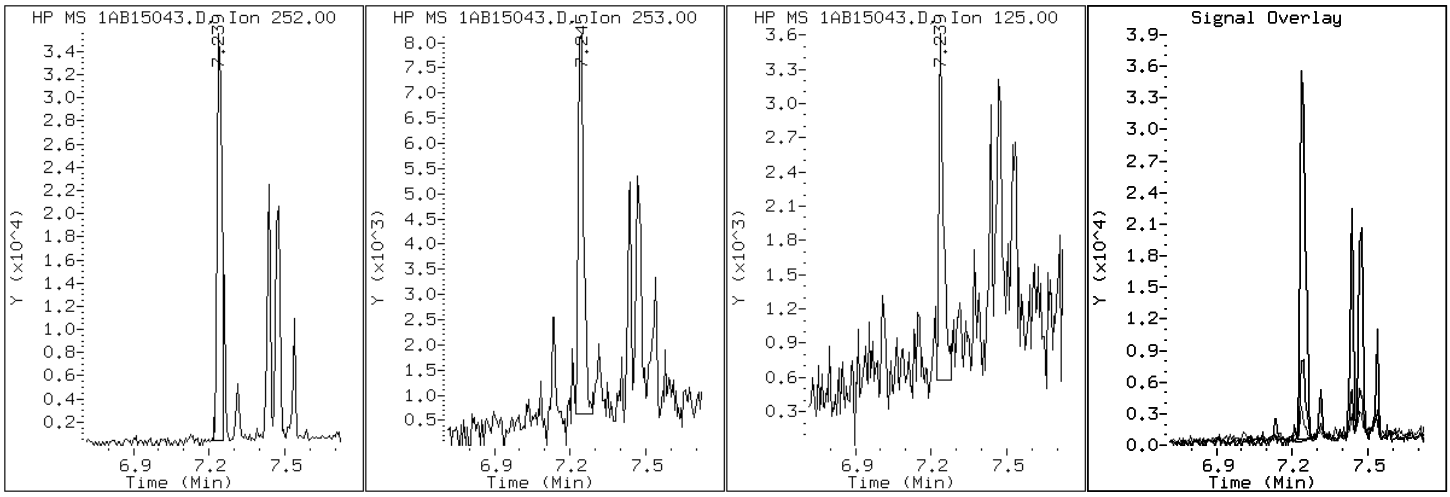
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

20 Benzo(b)fluoranthene



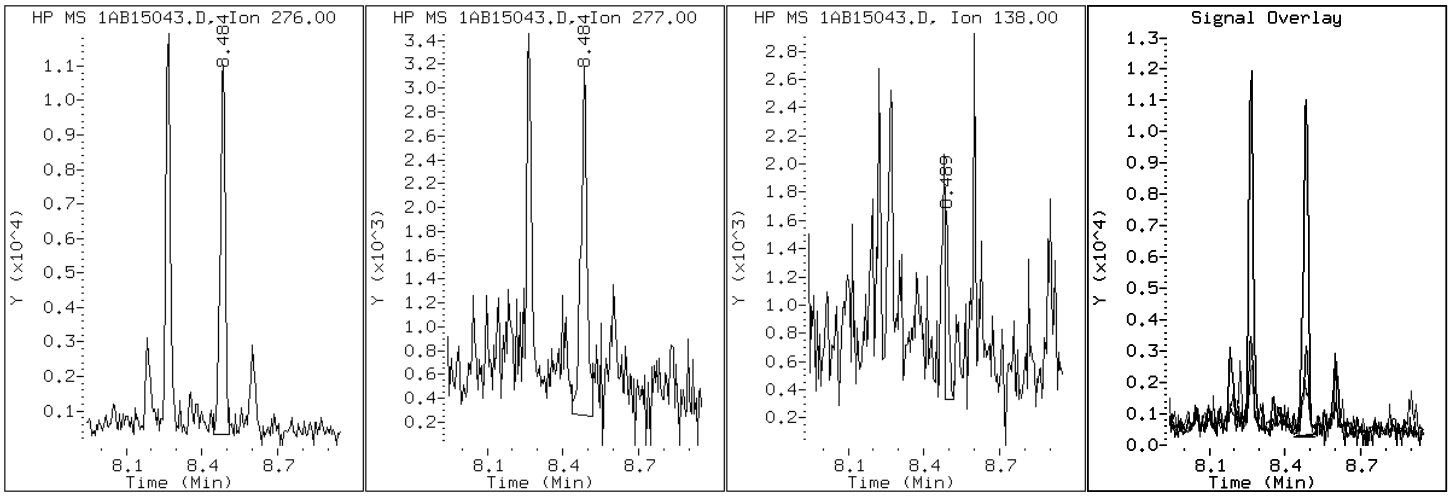
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

26 Benzo(g,h,i)perylene



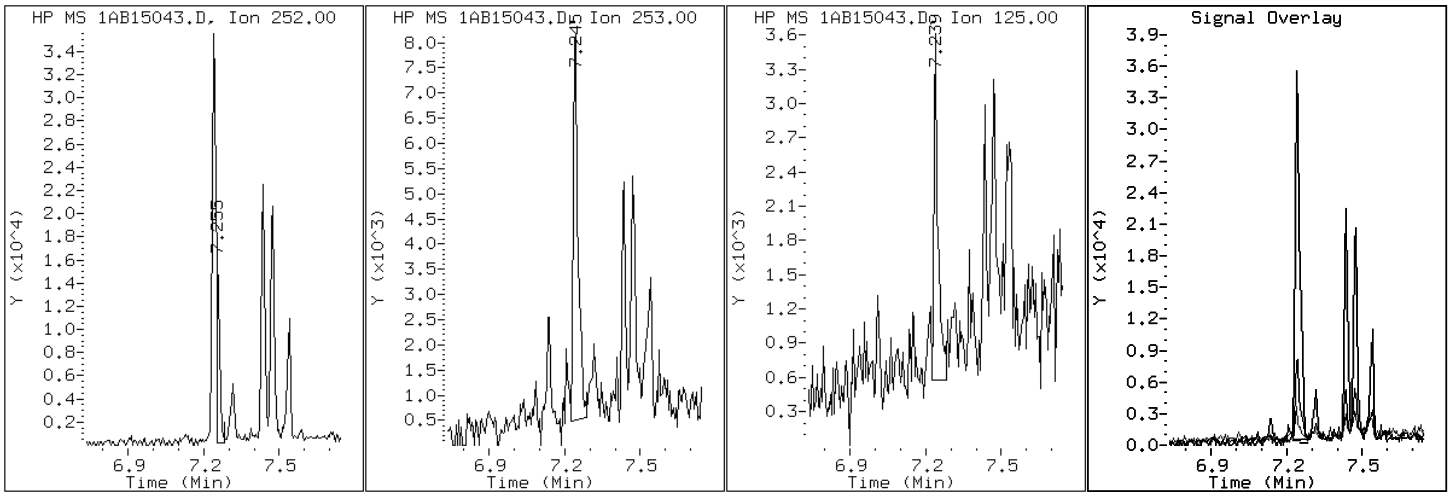
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

21 Benzo(k)fluoranthene



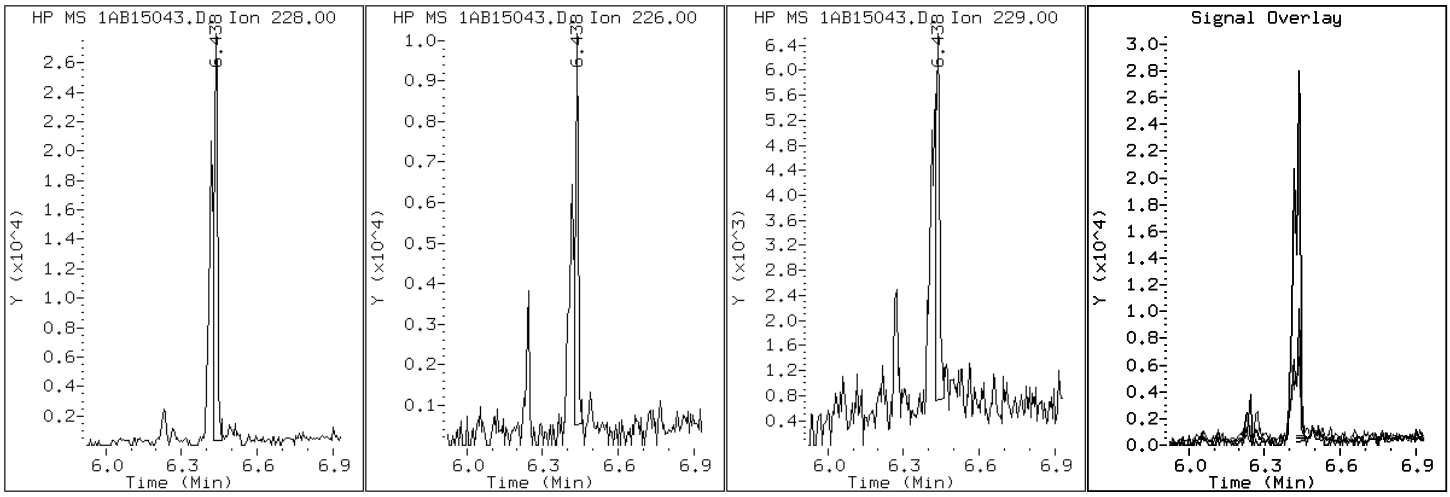
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

19 Chrysene



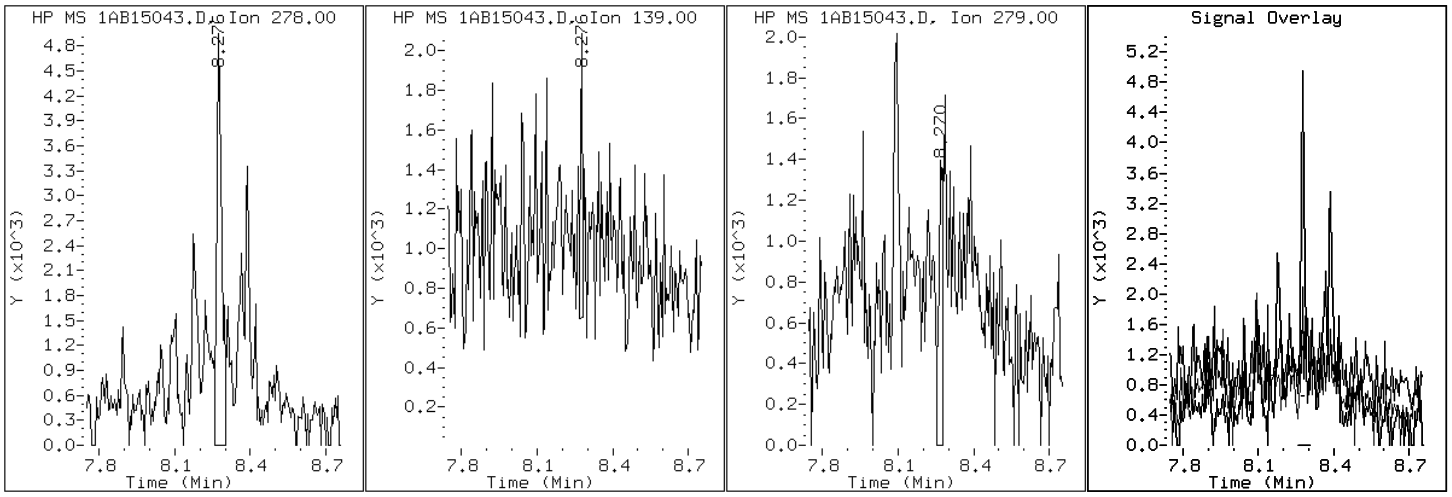
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

25 Dibenzo(a,h)anthracene



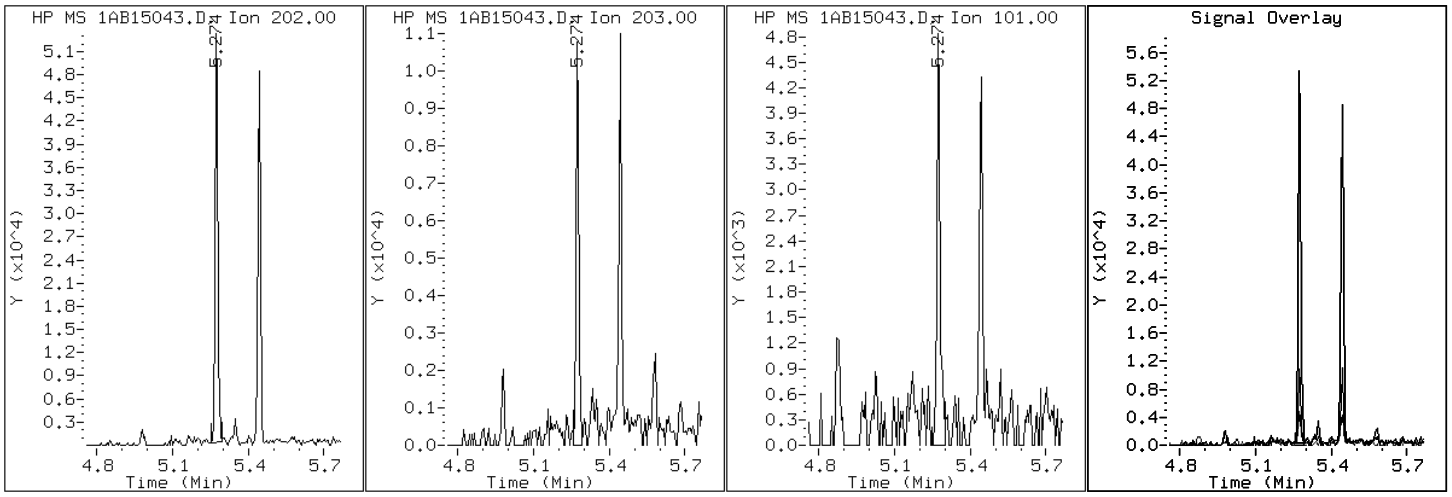
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

15 Fluoranthene



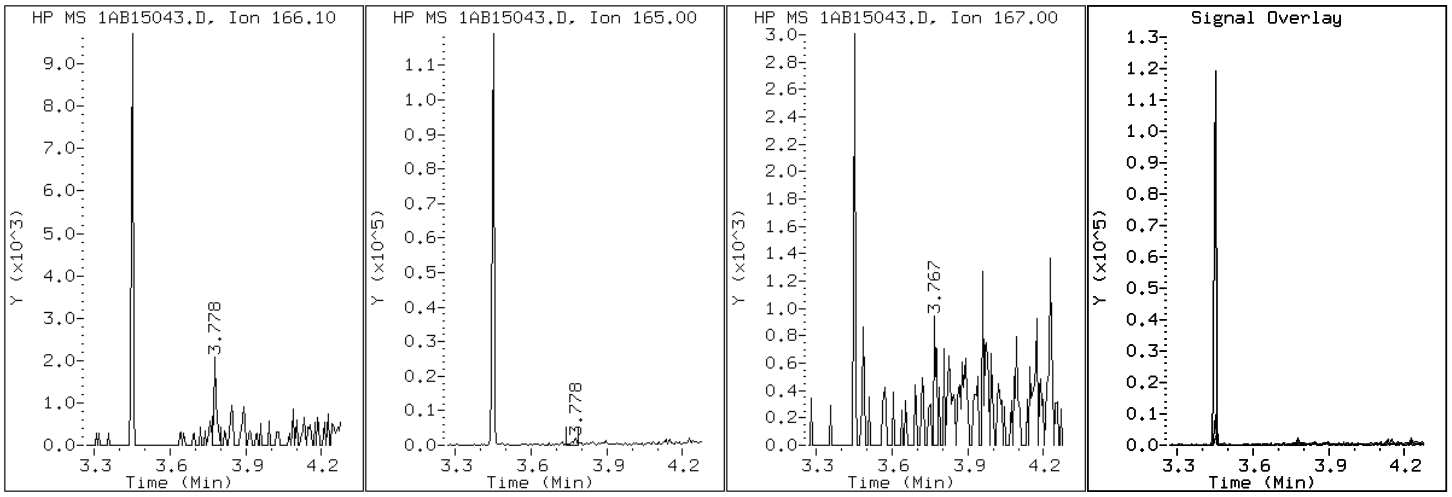
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

9 Fluorene



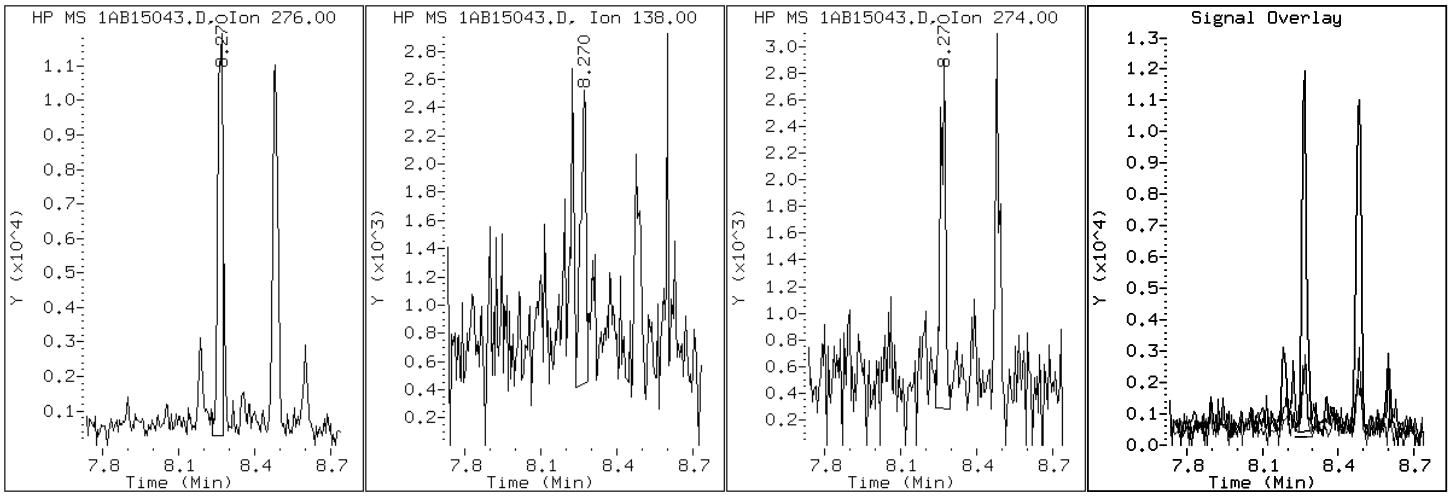
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

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



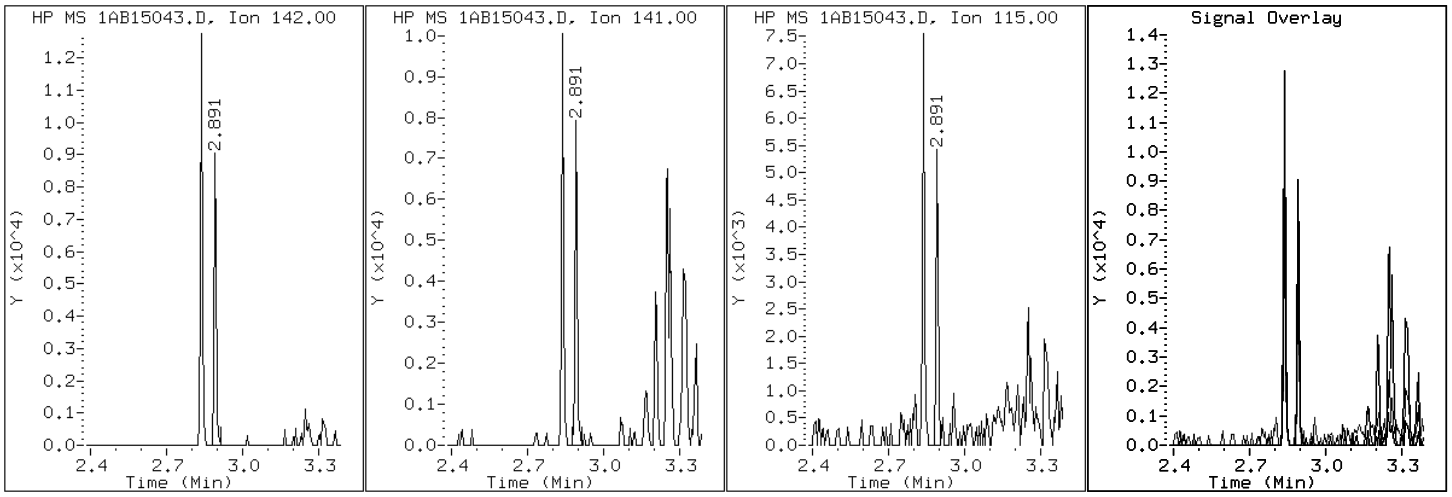
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

4 1-Methylnaphthalene



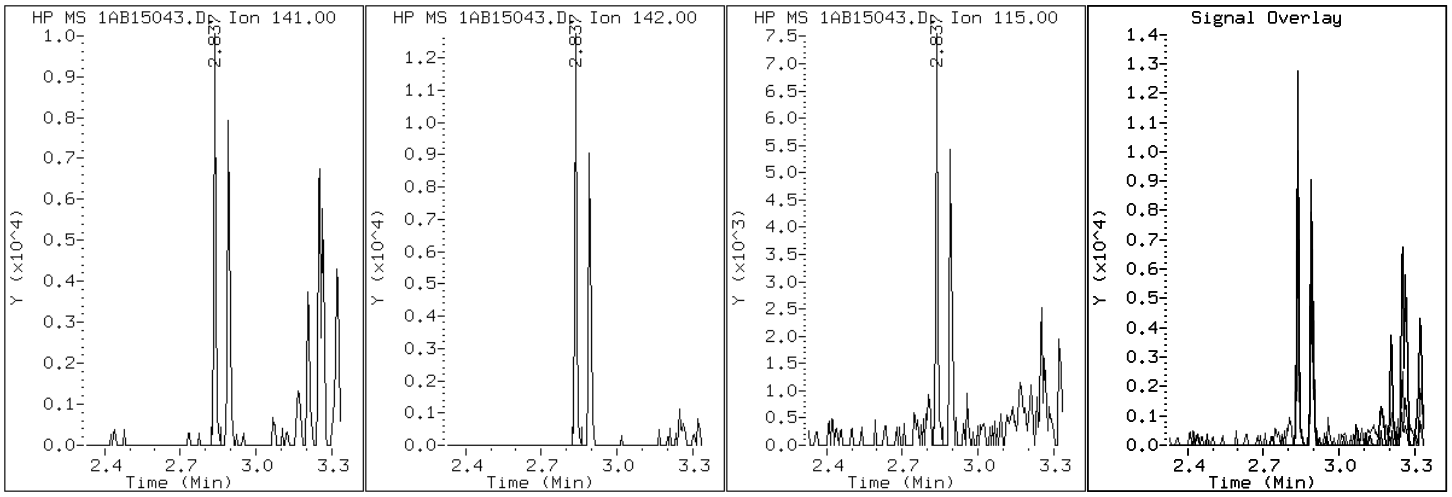
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

3 2-Methylnaphthalene



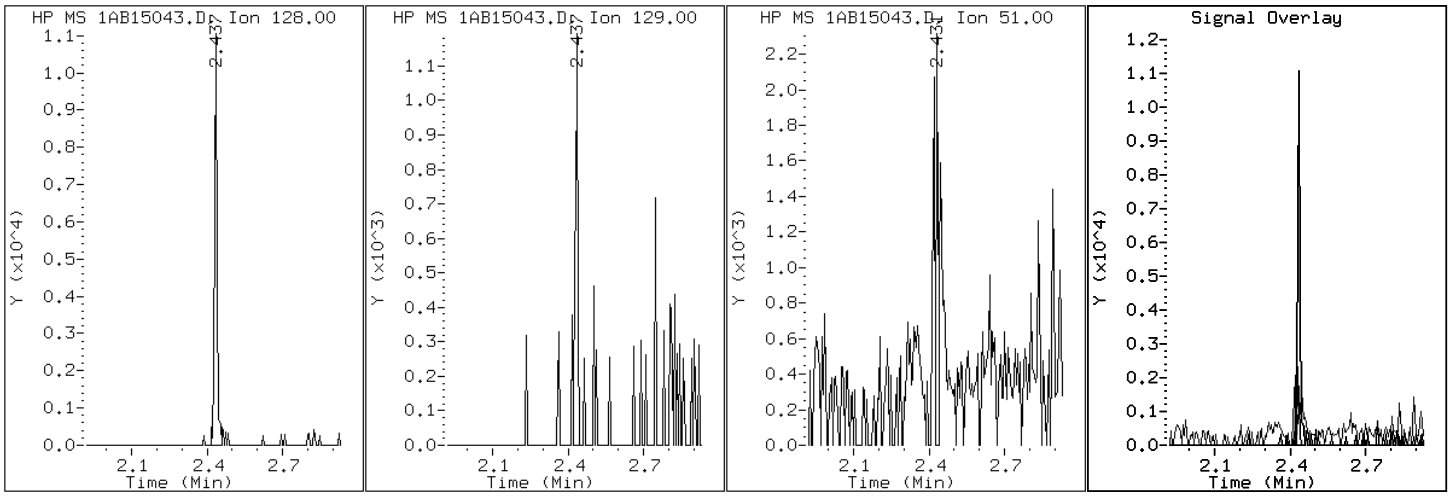
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

2 Naphthalene



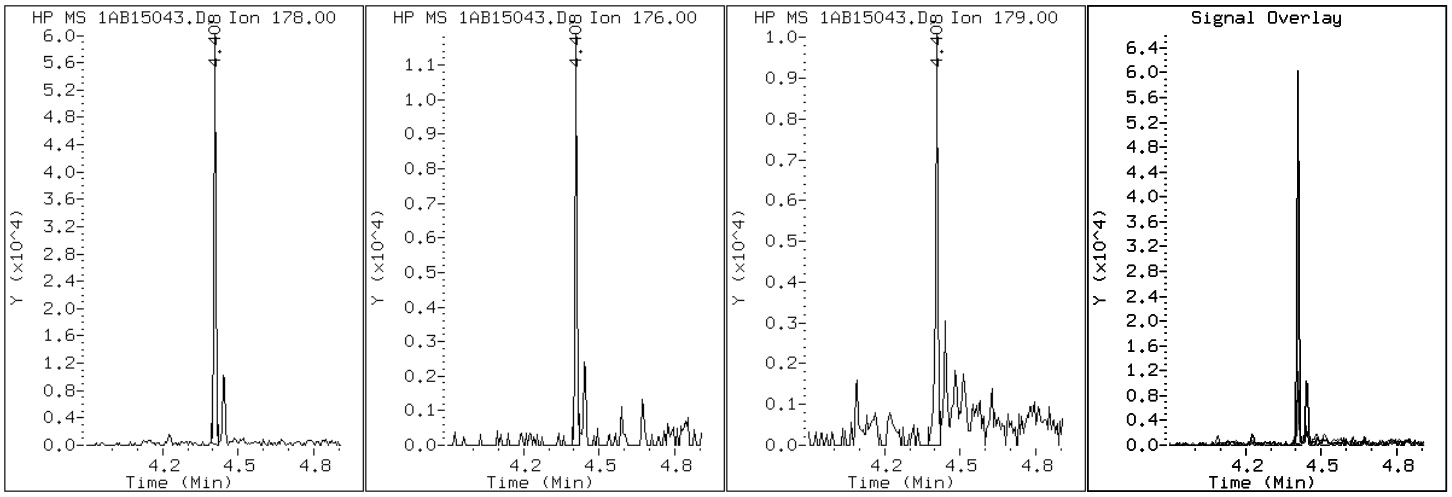
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

11 Phenanthrene



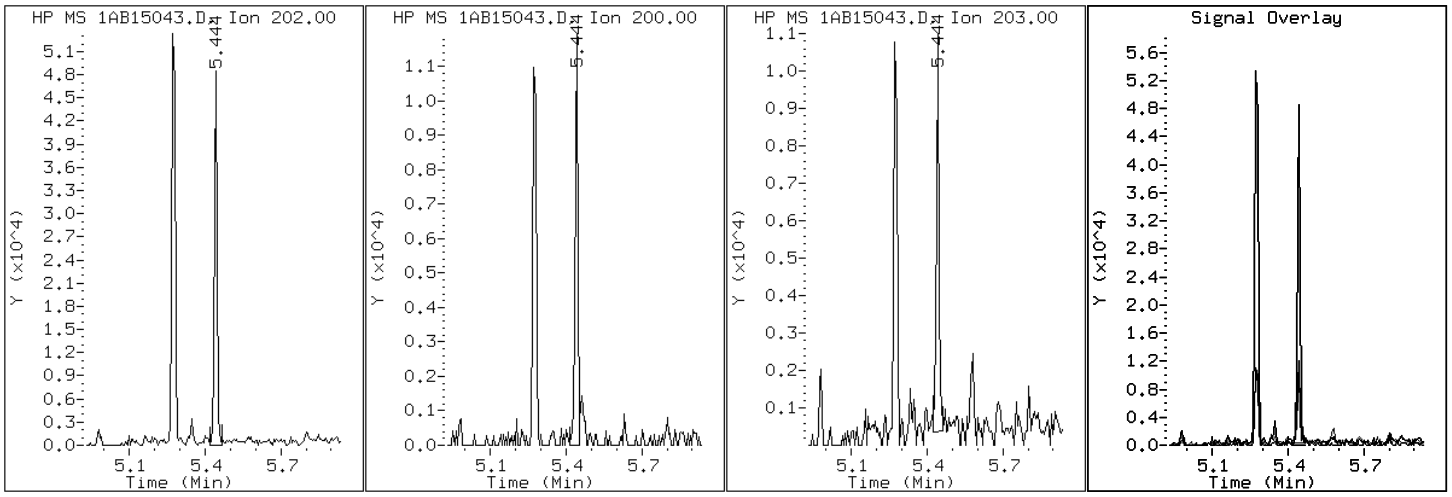
Data File: 1AB15043.D

Date: 16-FEB-2013 00:41

Client ID: CV0005X-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-34-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15043.D
Inj. Date and Time: 16-FEB-2013 00:41
Instrument ID: BSMA5973.i
Client ID: CV0005X-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

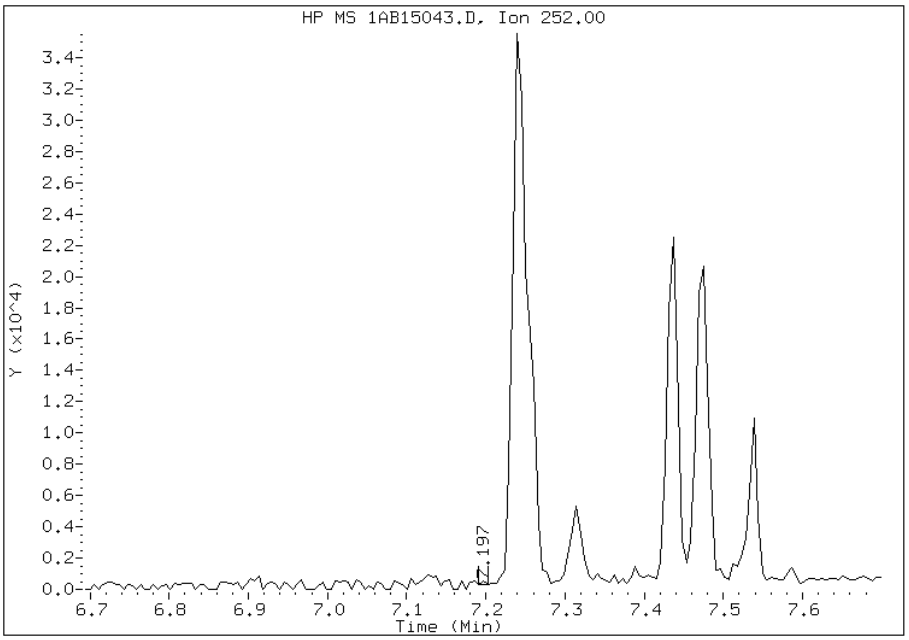
Processing Integration Results

RT: 7.20

Response: 96

Amount: 0

Conc: 1



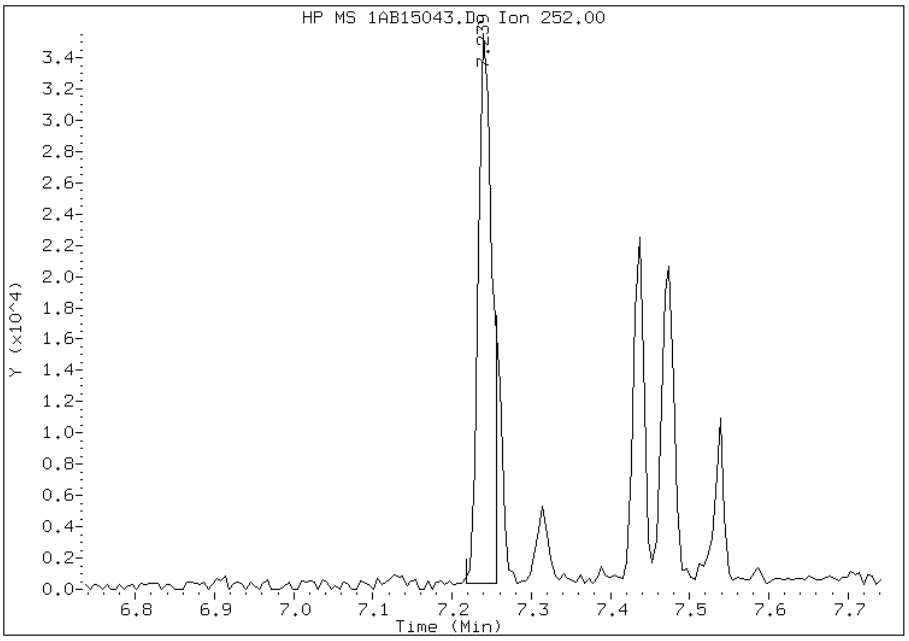
Manual Integration Results

RT: 7.24

Response: 42379

Amount: 2

Conc: 579



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15043.D
Inj. Date and Time: 16-FEB-2013 00:41
Instrument ID: BSMA5973.i
Client ID: CV0005X-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

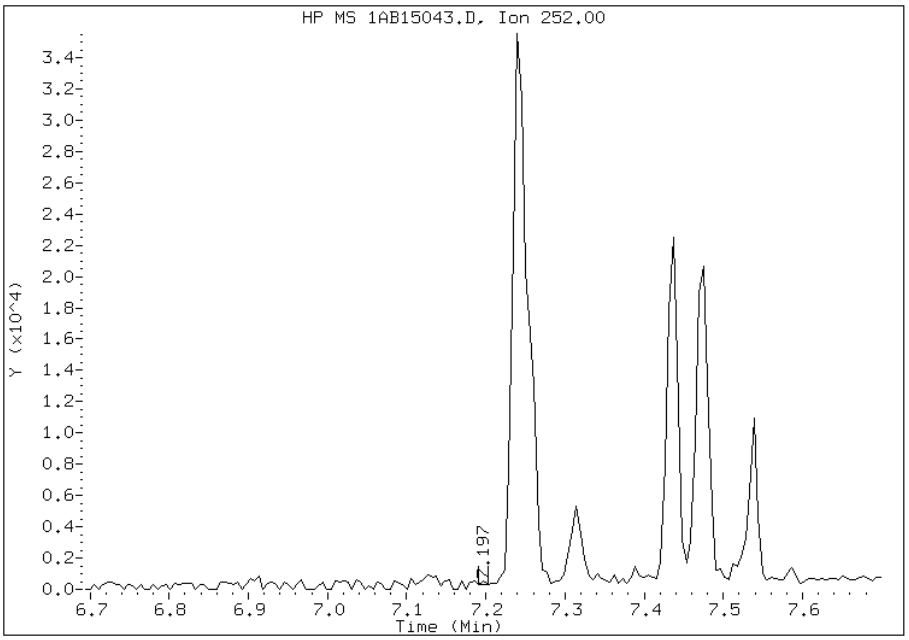
Processing Integration Results

RT: 7.20

Response: 97

Amount: 0

Conc: 1



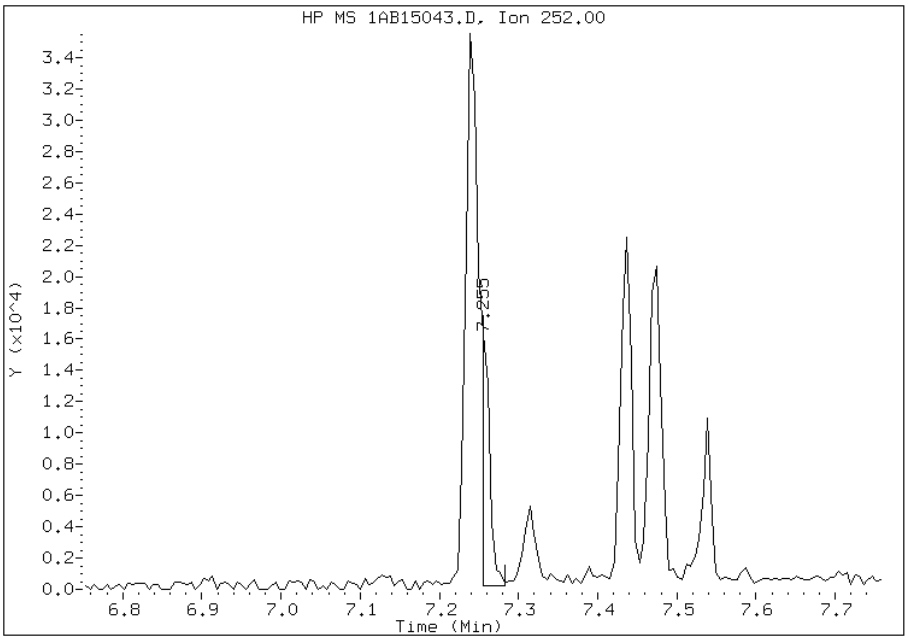
Manual Integration Results

RT: 7.26

Response: 11256

Amount: 0

Conc: 147



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:46
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15043.D
Inj. Date and Time: 16-FEB-2013 00:41
Instrument ID: BSMA5973.i
Client ID: CV0005X-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

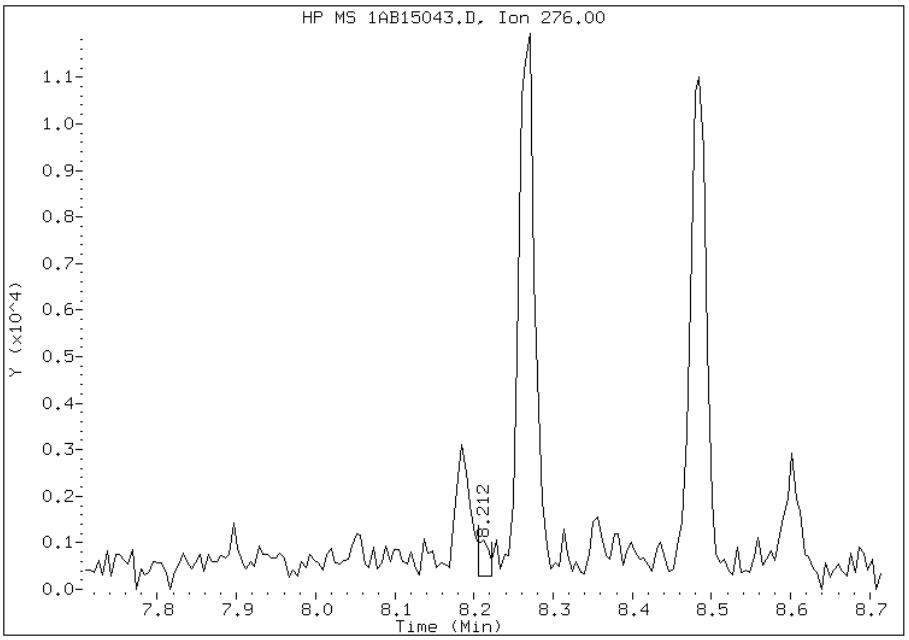
Processing Integration Results

RT: 8.21

Response: 770

Amount: 0

Conc: 14



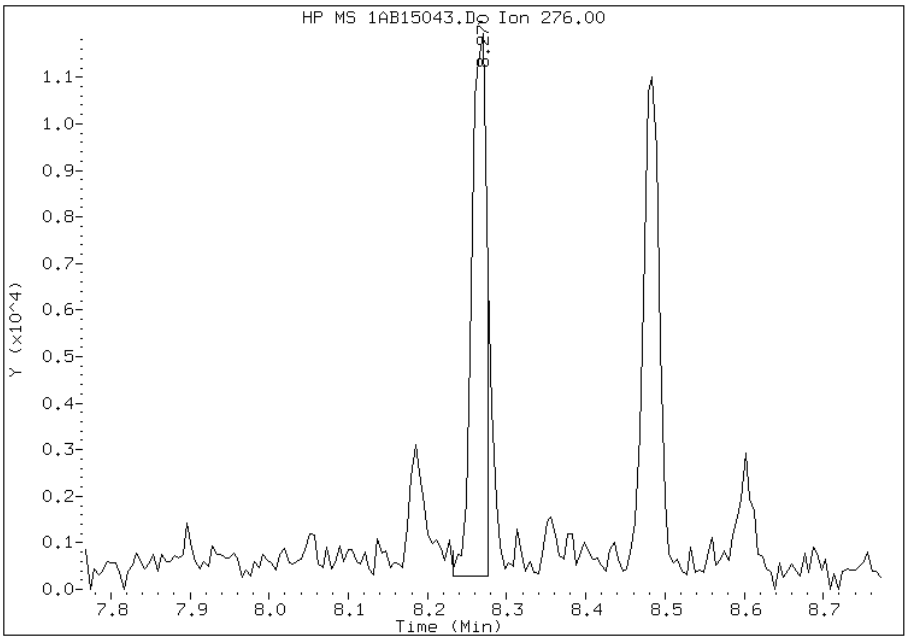
Manual Integration Results

RT: 8.27

Response: 15025

Amount: 1

Conc: 274



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:47
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005X-CSD | Lab Sample ID: 680-87318-35

Matrix: Solid | Lab File ID: 1AB15044.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 15:02

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 14.93(g) | Date Analyzed: 02/16/2013 00:56

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

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

% Moisture: 23.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	J	520	100
208-96-8	Acenaphthylene	120	J	210	26
120-12-7	Anthracene	510		44	22
56-55-3	Benzo[a]anthracene	1400		42	20
50-32-8	Benzo[a]pyrene	810		54	27
205-99-2	Benzo[b]fluoranthene	1300		64	32
191-24-2	Benzo[g,h,i]perylene	560		100	23
207-08-9	Benzo[k]fluoranthene	450		42	19
218-01-9	Chrysene	960		47	24
53-70-3	Dibenz(a,h)anthracene	220		100	21
206-44-0	Fluoranthene	2300		100	21
86-73-7	Fluorene	190		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	520		100	37
90-12-0	1-Methylnaphthalene	250		210	23
91-57-6	2-Methylnaphthalene	310		210	37
91-20-3	Naphthalene	260		210	23
85-01-8	Phenanthrene	2200		42	20
129-00-0	Pyrene	1500		100	19

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15044.D
Lab Smp Id: 680-87318-A-35-A Client Smp ID: CV0005X-CSD
Inj Date : 16-FEB-2013 00:56
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-35-a
Misc Info : 680-87318-A-35-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 41
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.930	Weight Extracted
M	23.201	% 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	2.426	2.415	(1.000)	737175	40.0000	
* 6 Acenaphthene-d10	164	3.451	3.441	(1.000)	529340	40.0000	
* 10 Phenanthrene-d10	188	4.397	4.386	(1.000)	774284	40.0000	
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* 18 Chrysene-d12	240	6.427	6.411	(1.000)	701453	40.0000	
* 23 Perylene-d12	264	7.533	7.501	(1.000)	849866	40.0000	(H)
2 Naphthalene	128	2.436	2.426	(1.004)	13322	0.74454	259.7355
3 2-Methylnaphthalene	141	2.837	2.832	(1.170)	8596	0.89676	312.8384
4 1-Methylnaphthalene	142	2.890	2.885	(1.192)	7821	0.72077	251.4441
5 Acenaphthylene	152	3.366	3.355	(0.975)	8130	0.34784	121.3441
7 Acenaphthene	154	3.467	3.462	(1.005)	5104	0.40346	140.7492
9 Fluorene	166	3.777	3.772	(1.094)	8623	0.54209	189.1104
11 Phenanthrene	178	4.408	4.402	(1.002)	132024	6.24485	2178.5438
12 Anthracene	178	4.445	4.434	(1.011)	31658	1.46872	512.3706

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.600	4.589	(1.046)	14608	0.79063	275.8131
15 Fluoranthene	202	5.278	5.262	(1.200)	136506	6.51261	2271.9528
16 Pyrene	202	5.444	5.433	(0.847)	108702	4.29093	1496.9105
17 Benzo(a)anthracene	228	6.416	6.395	(0.998)	83163	3.97065	1385.1786
19 Chrysene	228	6.443	6.427	(1.002)	56106	2.74827	958.7473
20 Benzo(b)fluoranthene	252	7.244	7.217	(0.962)	87461	3.68723	1286.3072(MH)
21 Benzo(k)fluoranthene	252	7.255	7.239	(0.963)	31828	1.28339	447.7151(QMH)
22 Benzo(a)pyrene	252	7.474	7.452	(0.992)	52424	2.32739	811.9197(H)
24 Indeno(1,2,3-cd)pyrene	276	8.270	8.238	(1.098)	26385	1.48345	517.5079(MH)
25 Dibenzo(a,h)anthracene	278	8.281	8.254	(1.099)	11164	0.62786	219.0311(H)
26 Benzo(g,h,i)perylene	276	8.489	8.446	(1.127)	29790	1.61669	563.9904(H)

QC Flag Legend

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

Data File: 1AB15044.D

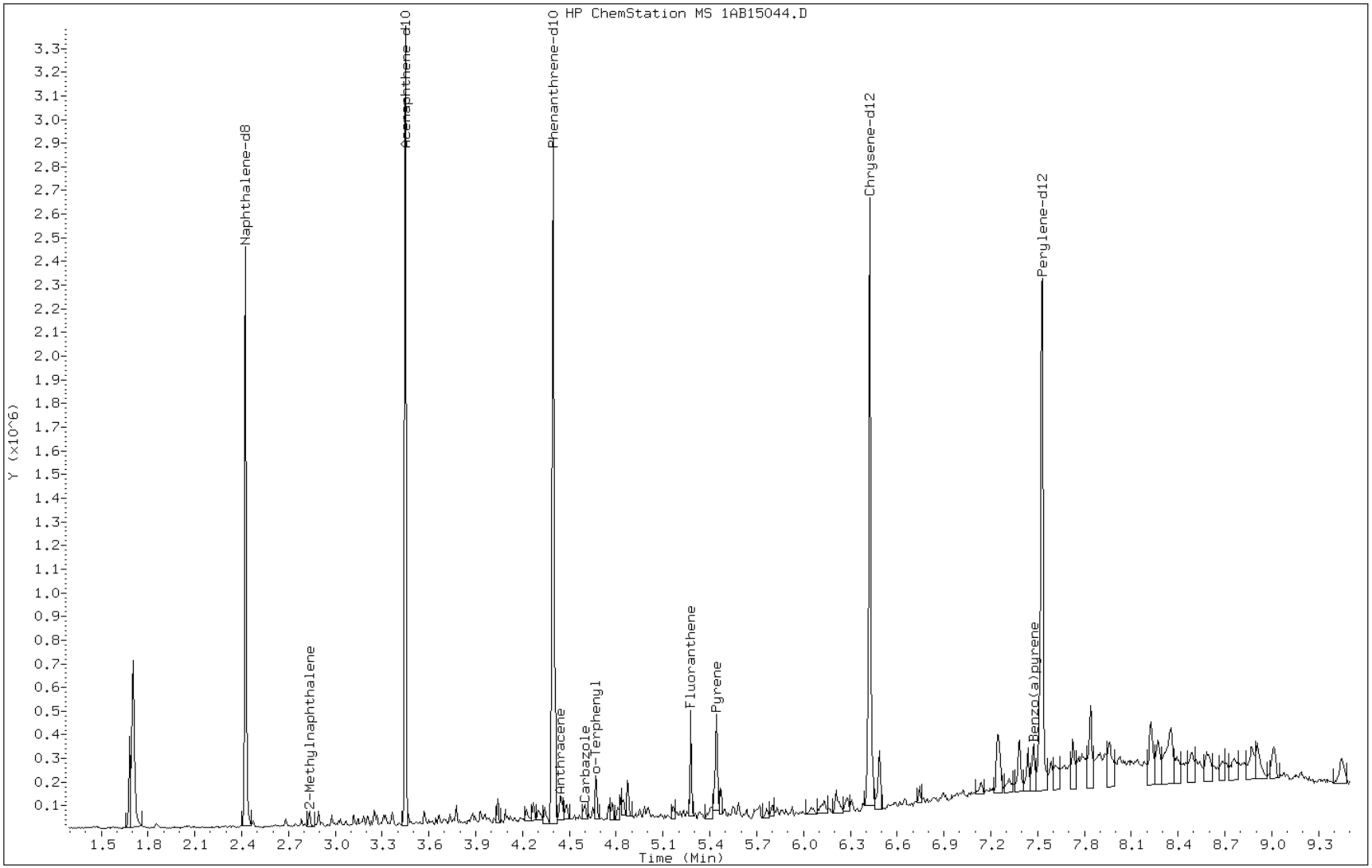
Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD

Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a

Operator: SCC



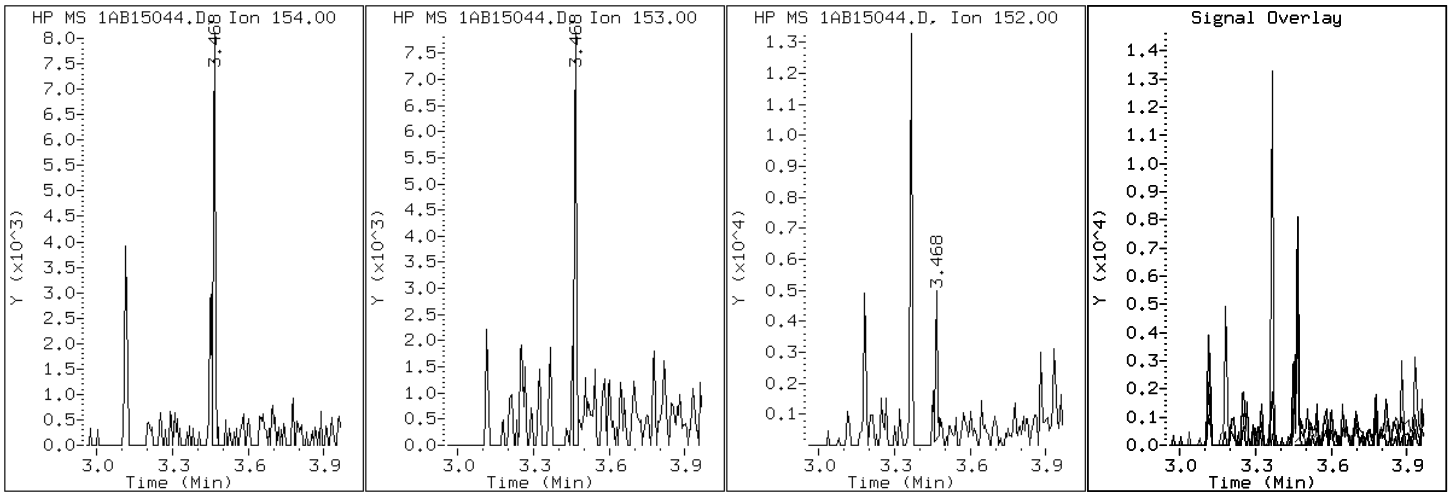
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

7 Acenaphthene



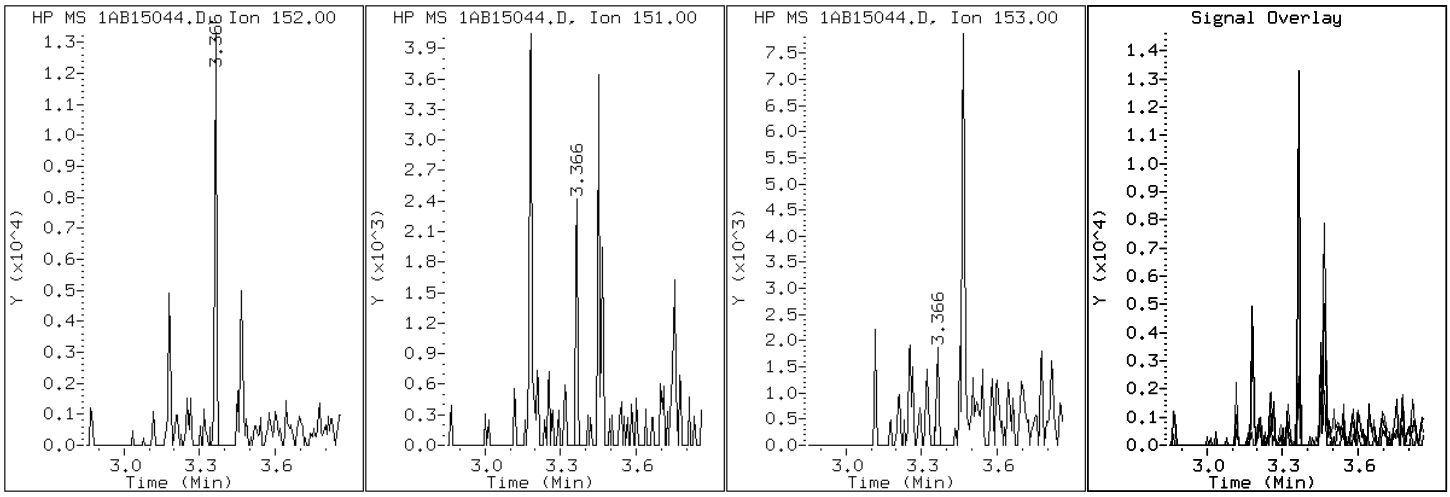
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

5 Acenaphthylene



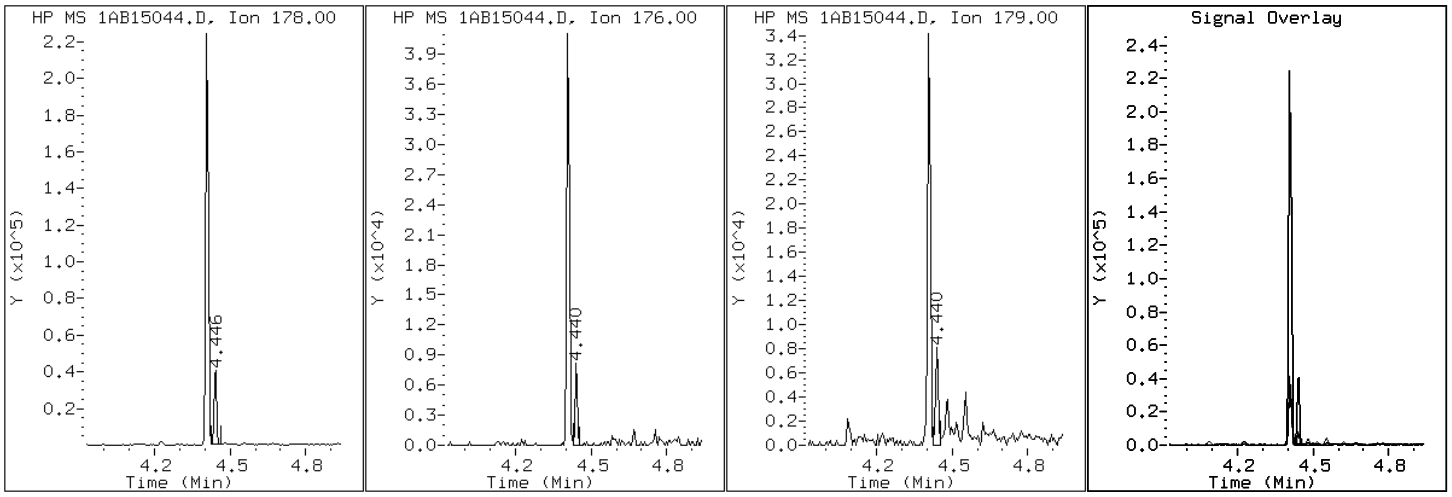
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

12 Anthracene



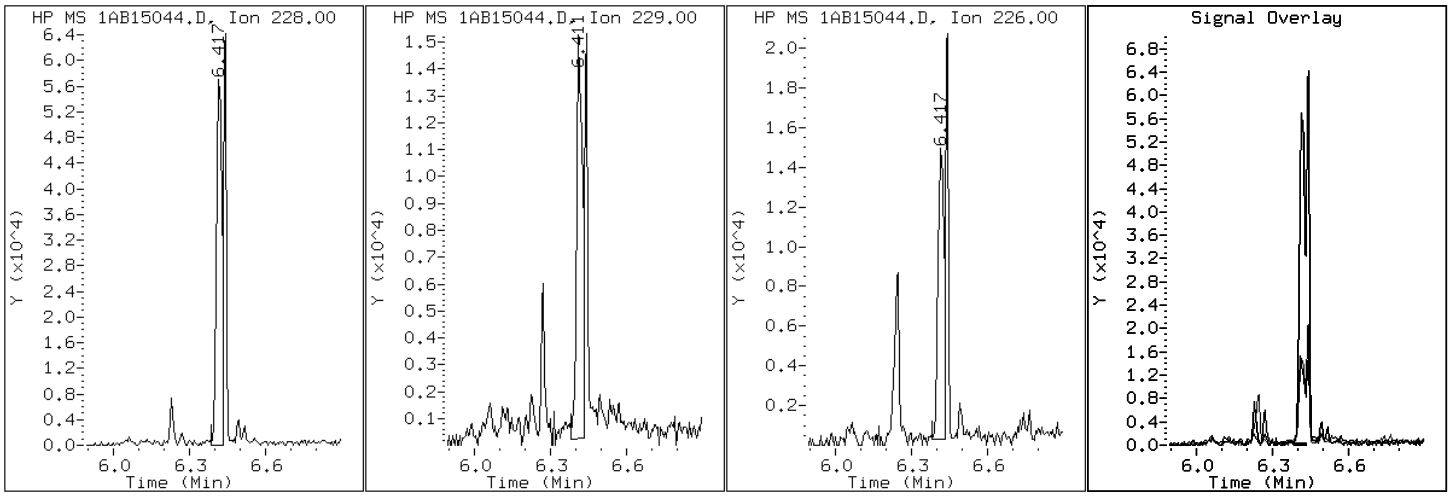
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

17 Benzo(a)anthracene



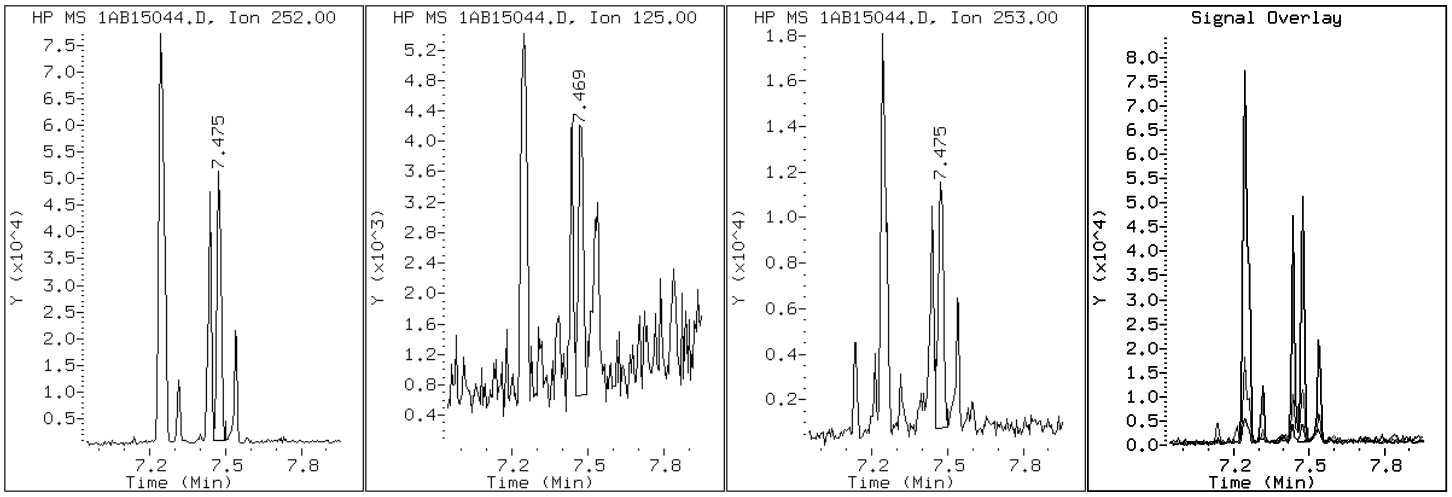
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

22 Benzo(a)pyrene



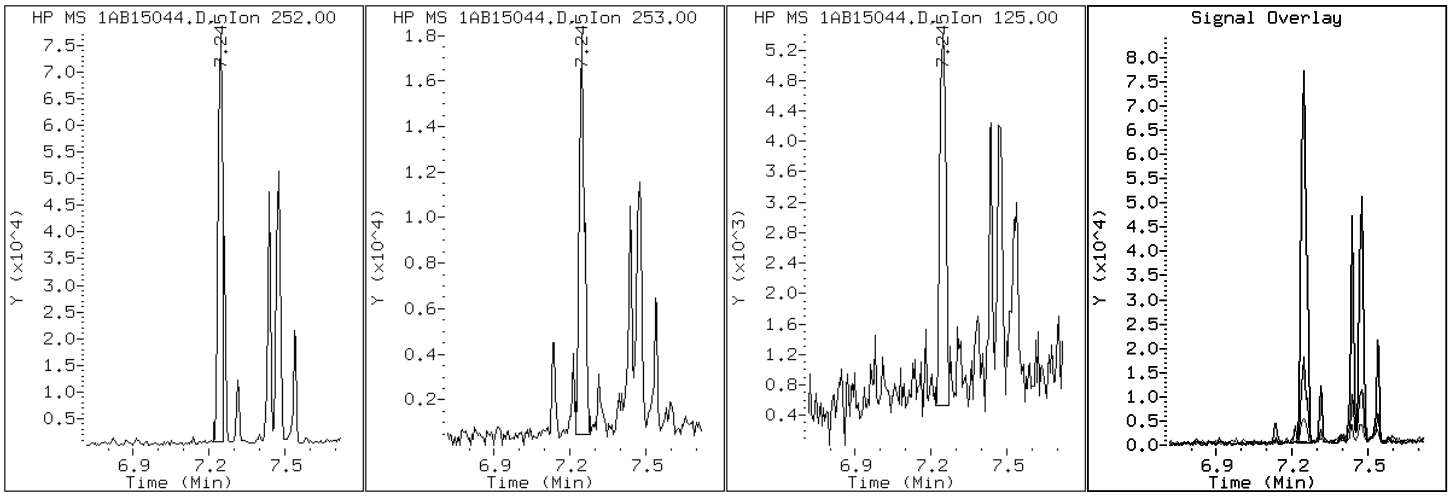
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

20 Benzo(b)fluoranthene



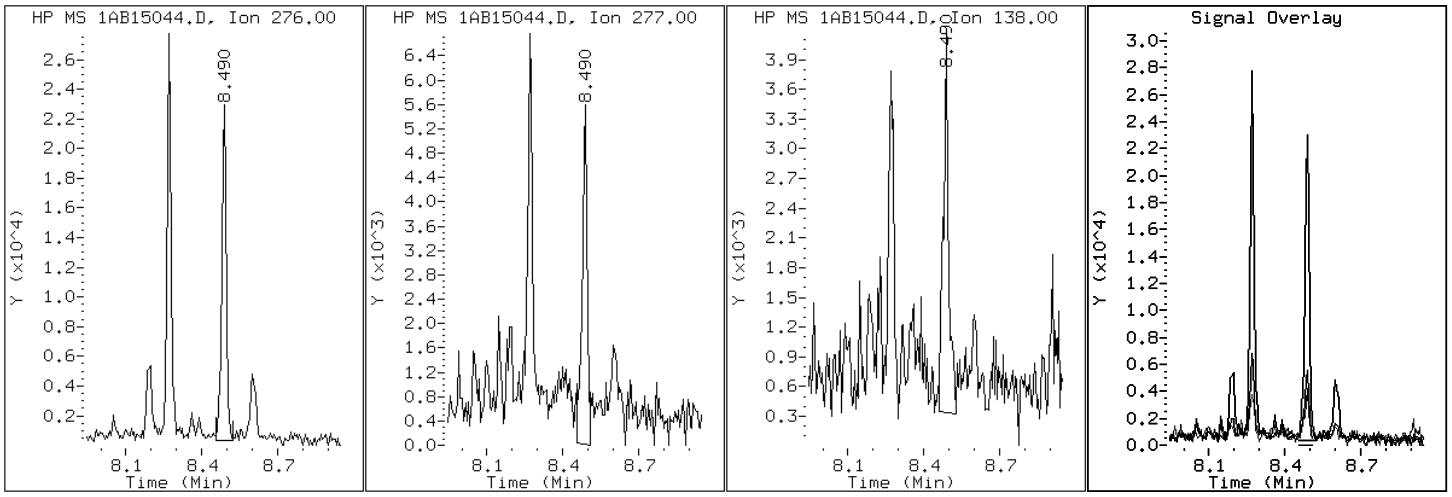
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

26 Benzo(g,h,i)perylene



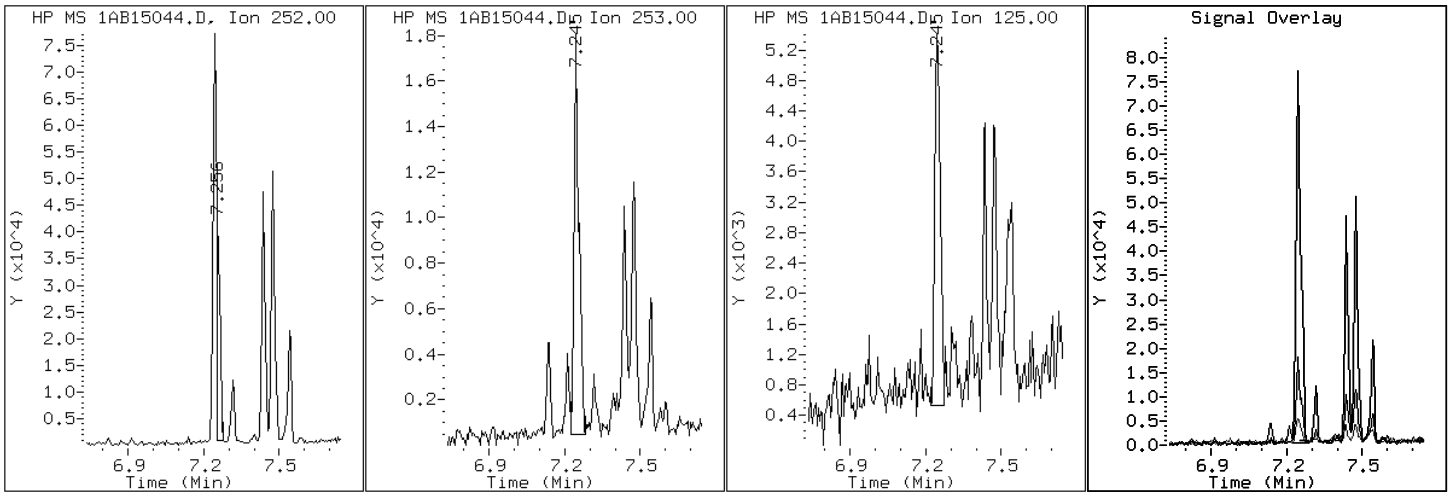
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

21 Benzo(k)fluoranthene



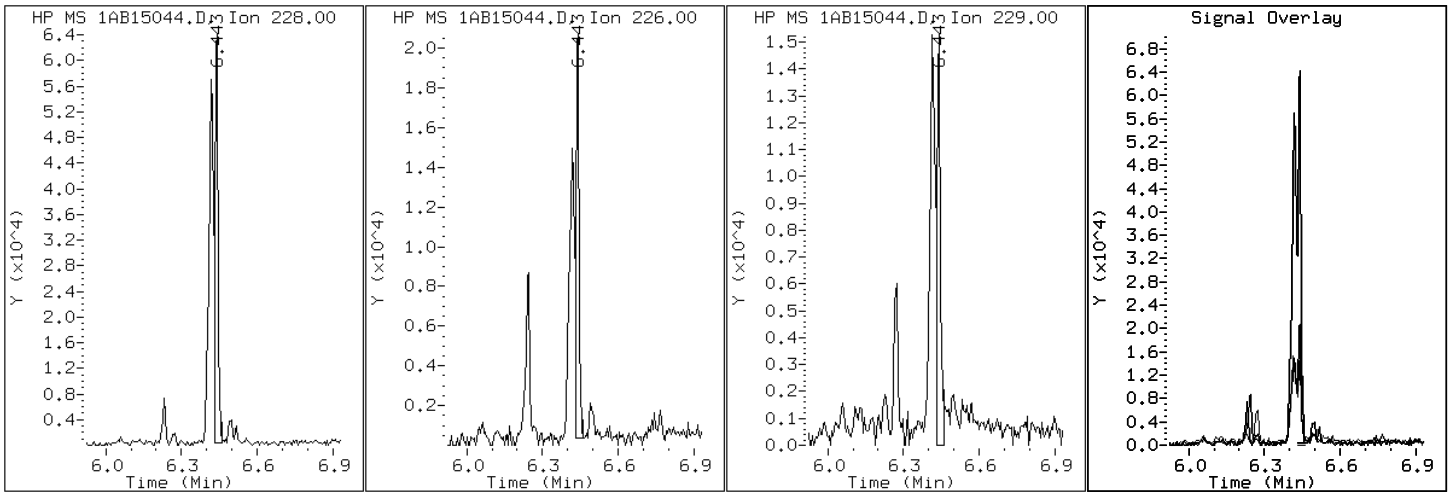
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

19 Chrysene



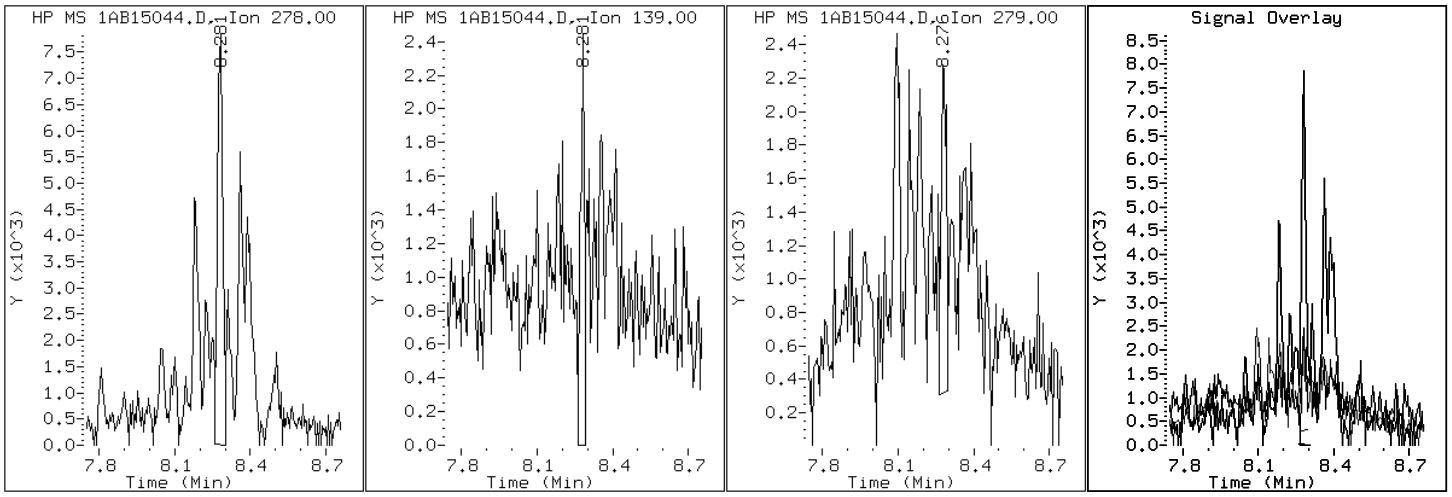
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

25 Dibenzo(a,h)anthracene



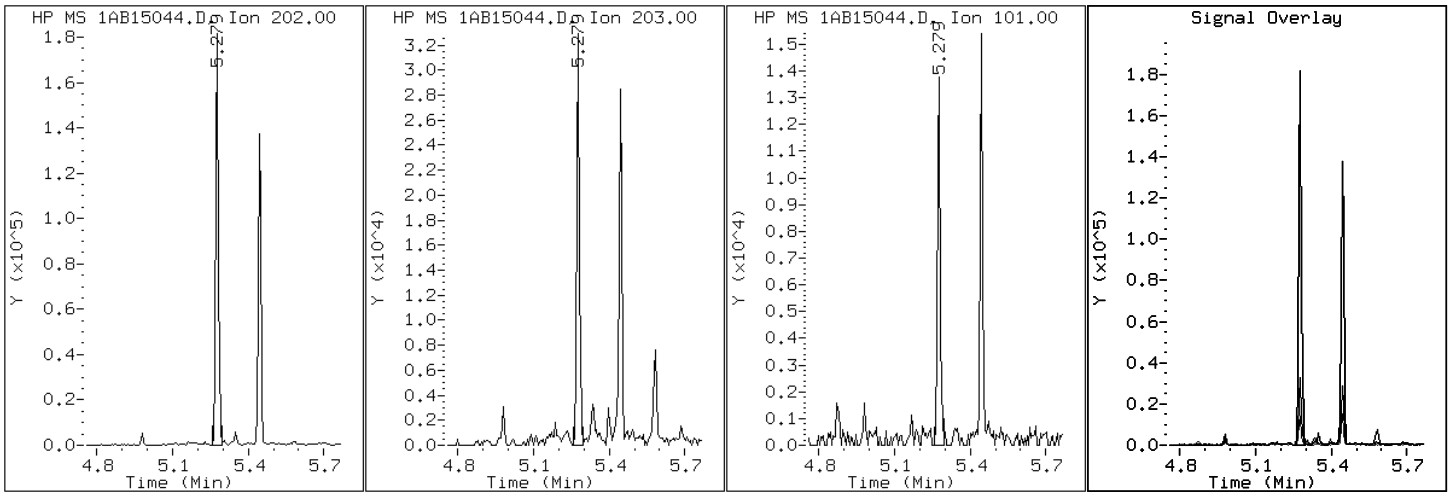
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

15 Fluoranthene



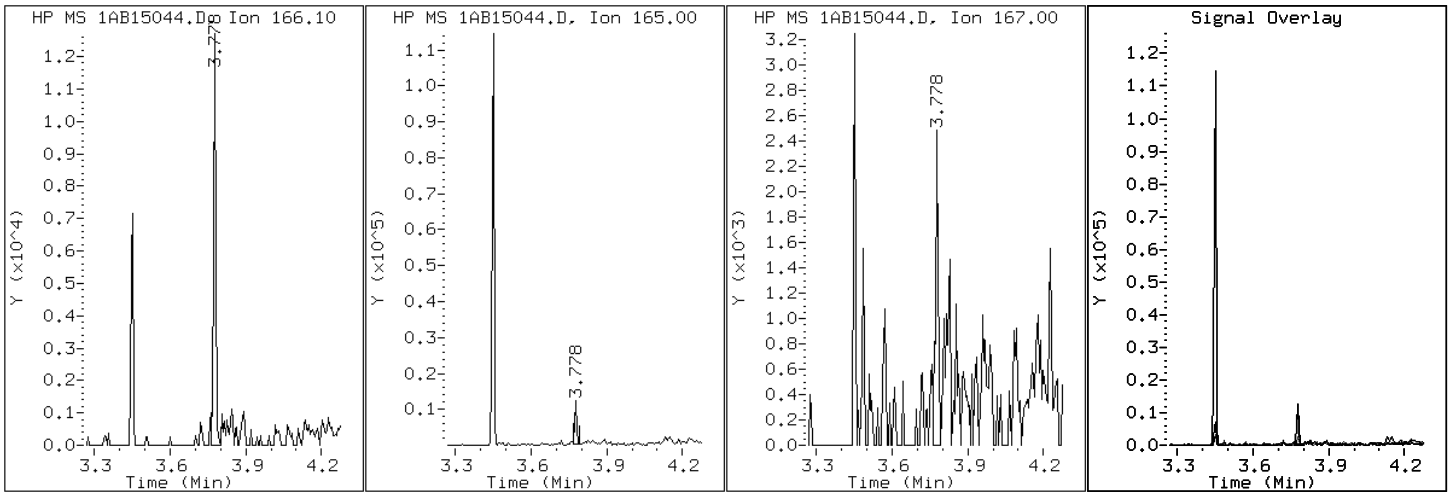
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

9 Fluorene



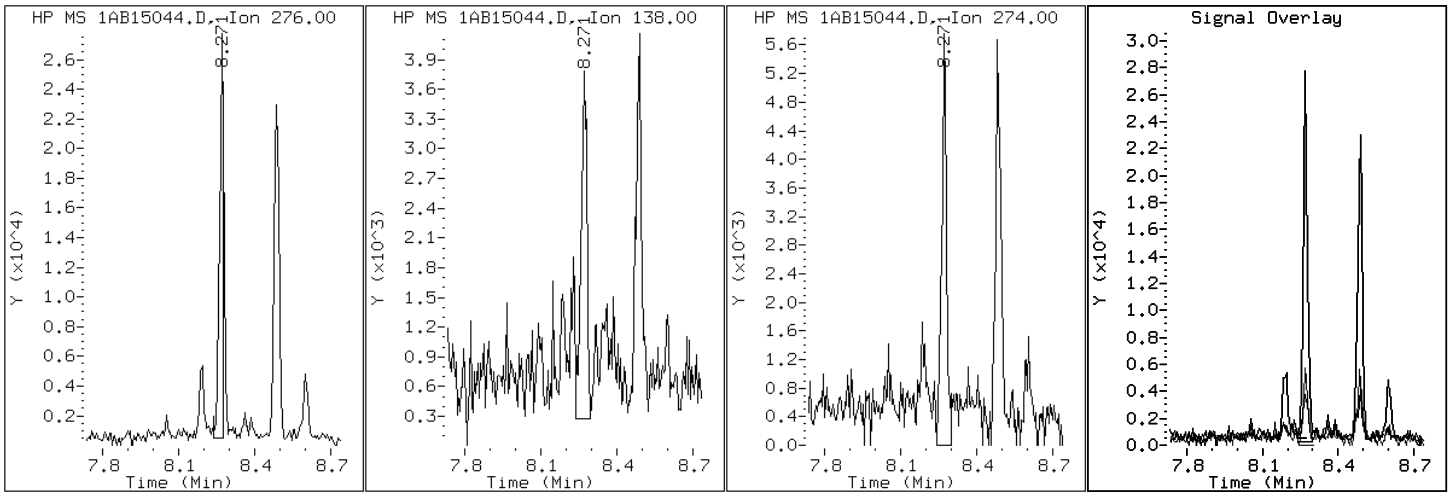
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

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



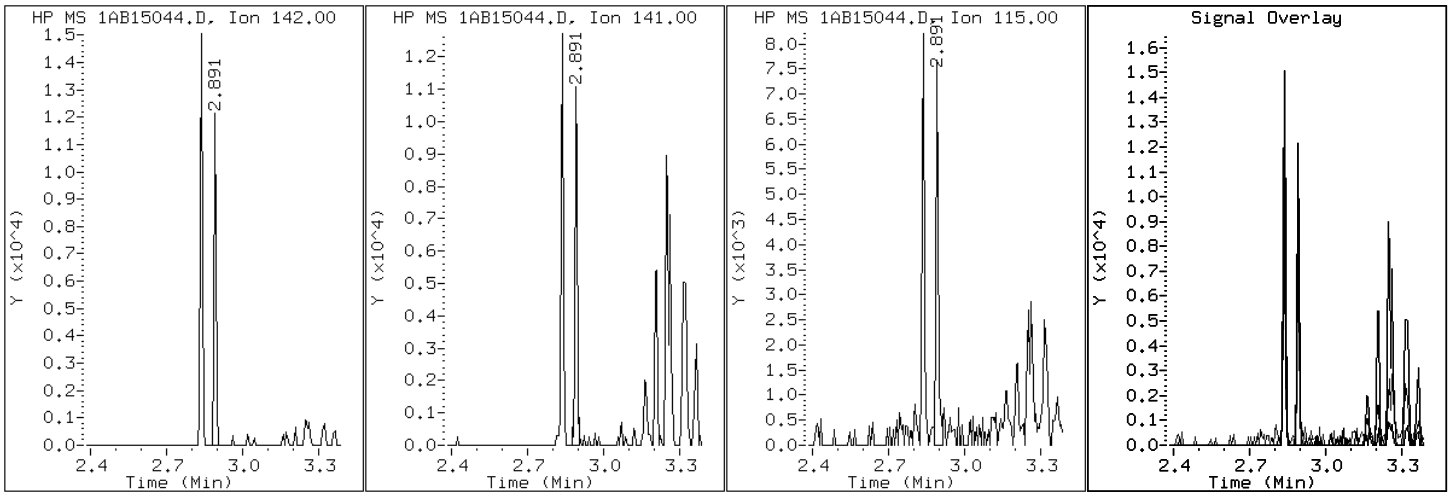
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

4 1-Methylnaphthalene



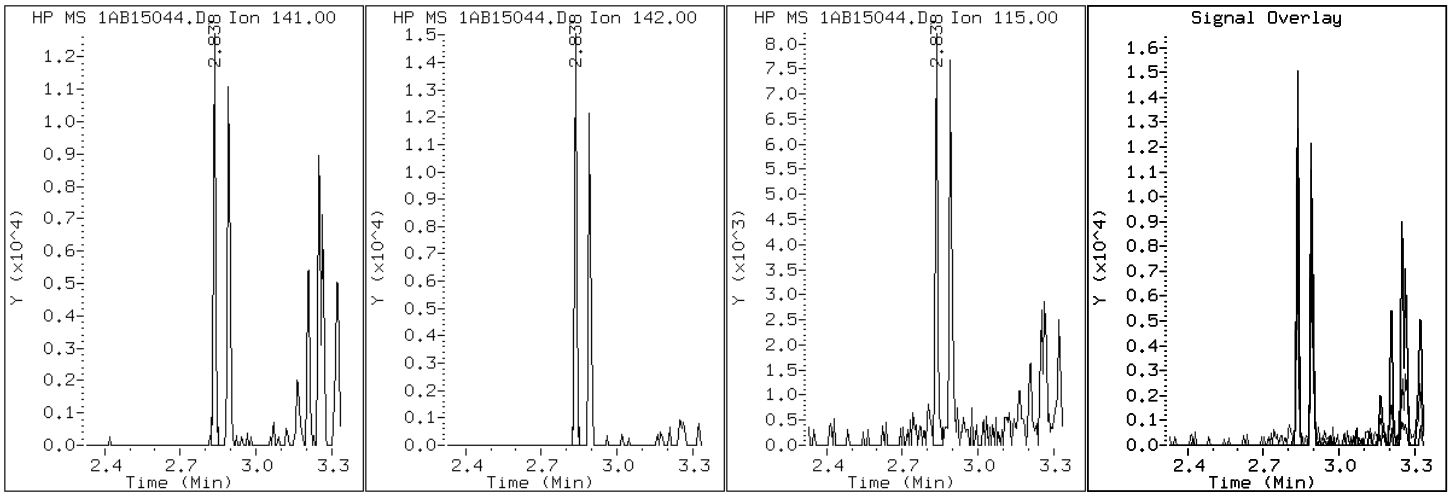
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

3 2-Methylnaphthalene



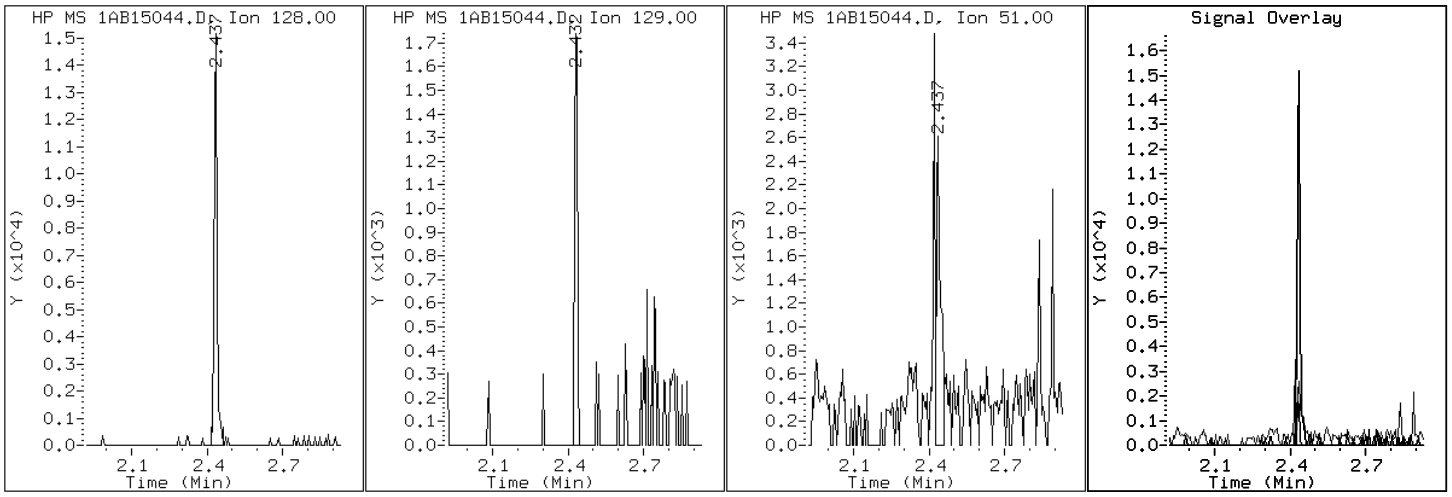
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

2 Naphthalene



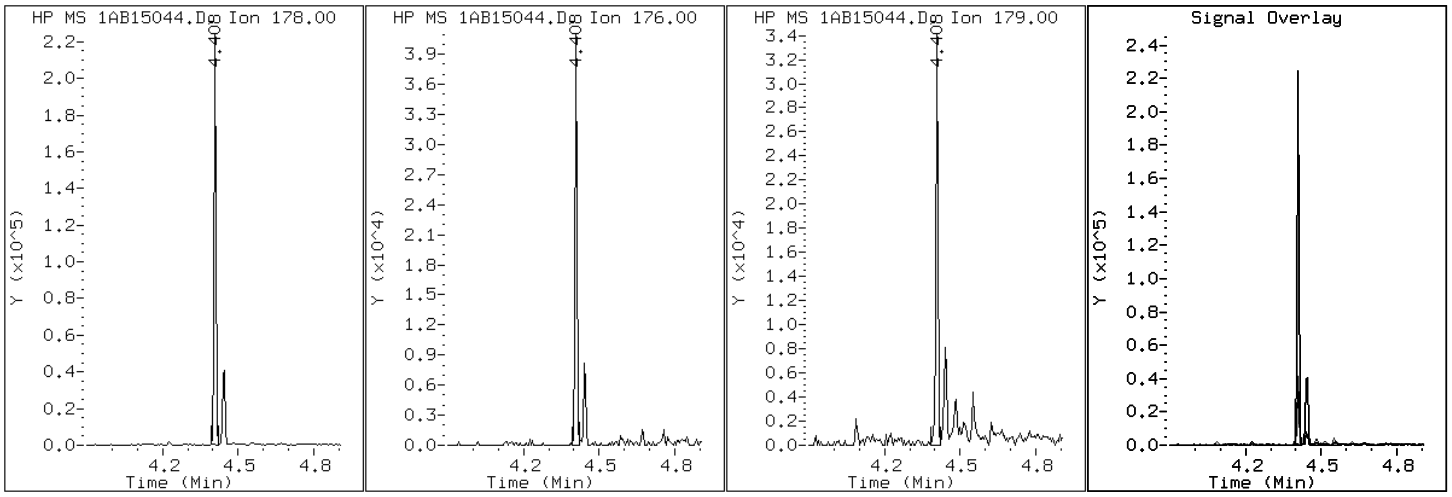
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

11 Phenanthrene



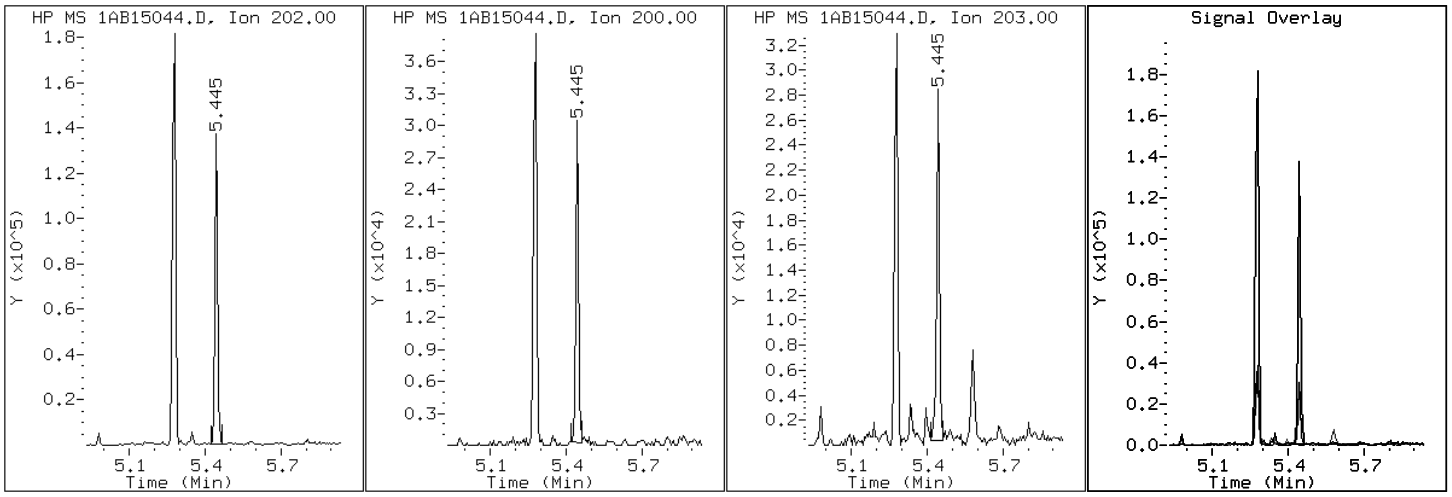
Data File: 1AB15044.D

Date: 16-FEB-2013 00:56

Client ID: CV0005X-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-35-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15044.D
Inj. Date and Time: 16-FEB-2013 00:56
Instrument ID: BSMA5973.i
Client ID: CV0005X-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

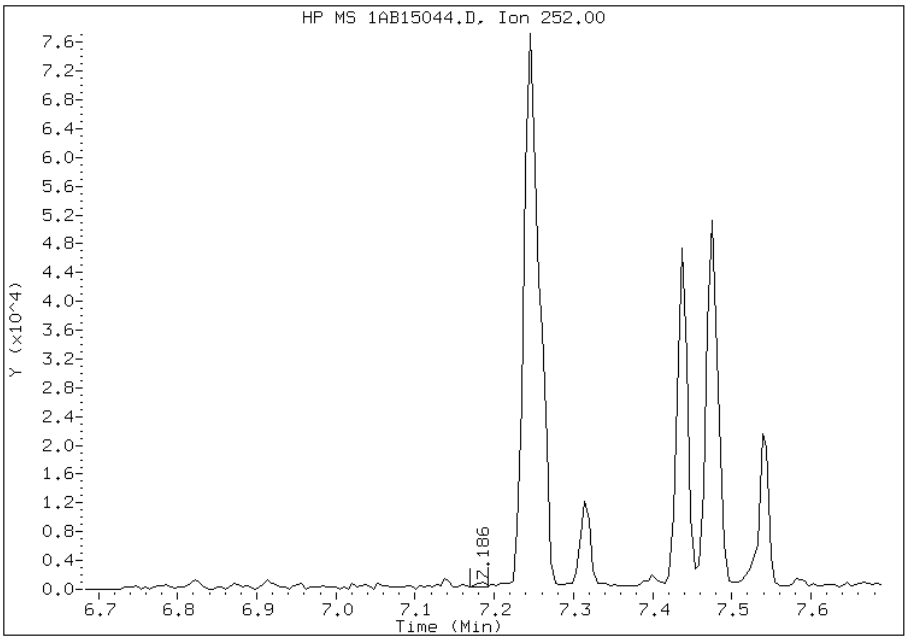
Processing Integration Results

RT: 7.19

Response: 472

Amount: 0

Conc: 7



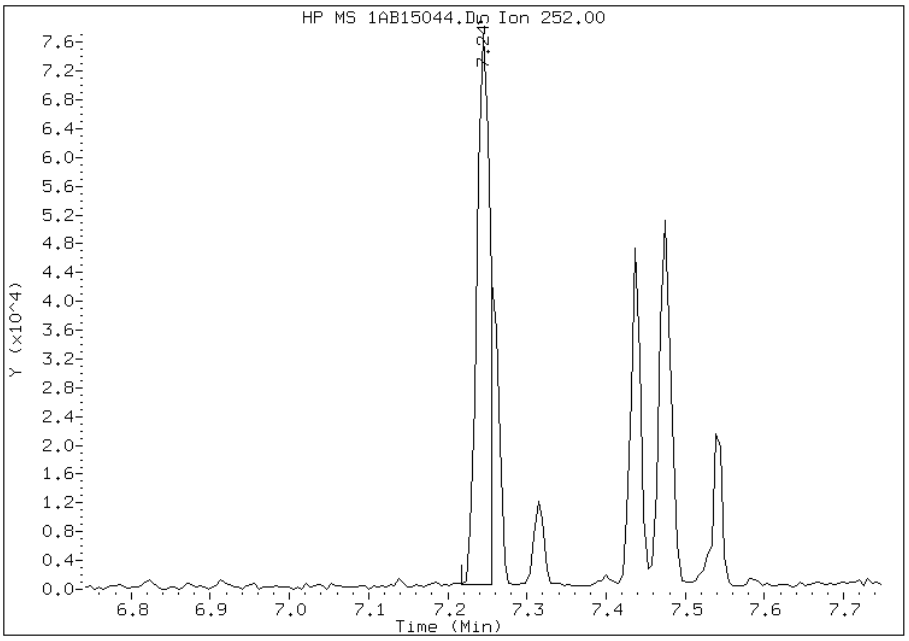
Manual Integration Results

RT: 7.24

Response: 87461

Amount: 4

Conc: 1286



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:47
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15044.D
Inj. Date and Time: 16-FEB-2013 00:56
Instrument ID: BSMA5973.i
Client ID: CV0005X-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

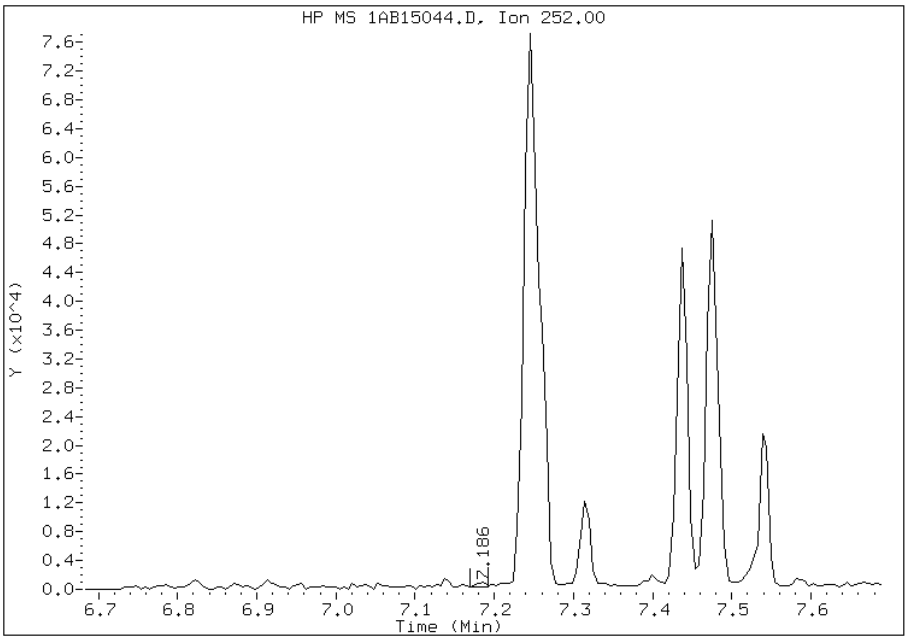
Processing Integration Results

RT: 7.19

Response: 472

Amount: 0

Conc: 7



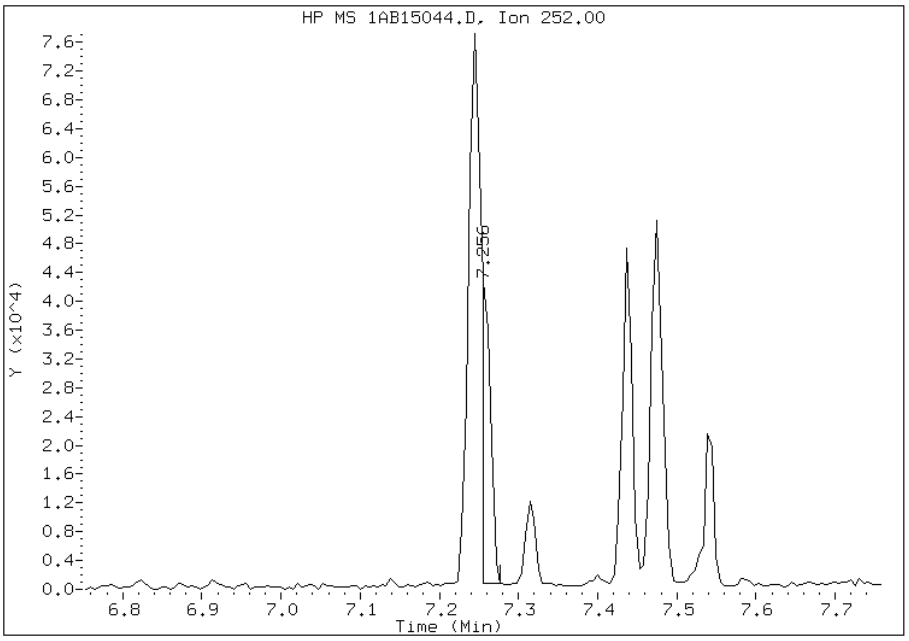
Manual Integration Results

RT: 7.26

Response: 31828

Amount: 1

Conc: 448



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:48
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15044.D
Inj. Date and Time: 16-FEB-2013 00:56
Instrument ID: BSMA5973.i
Client ID: CV0005X-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

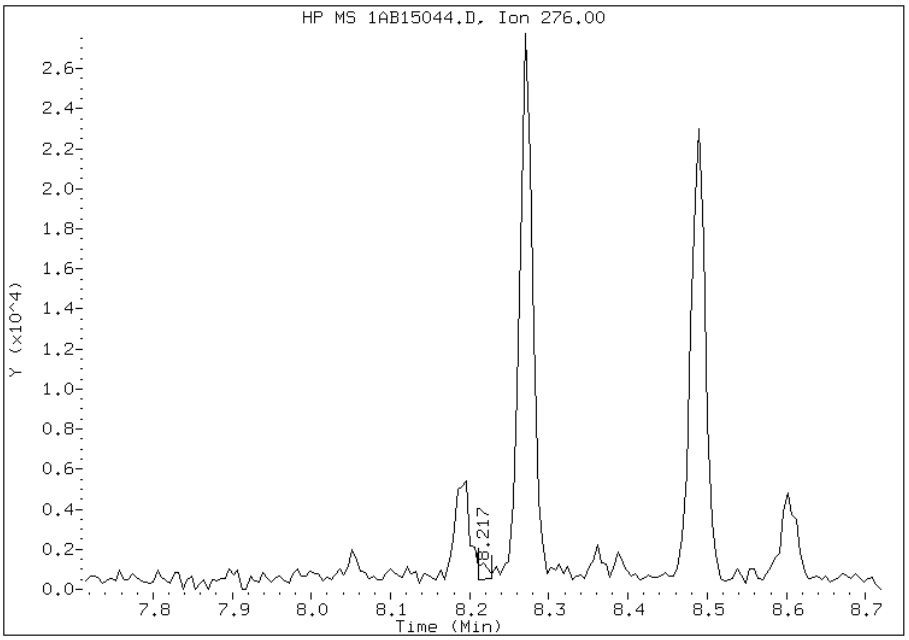
Processing Integration Results

RT: 8.22

Response: 719

Amount: 0

Conc: 14



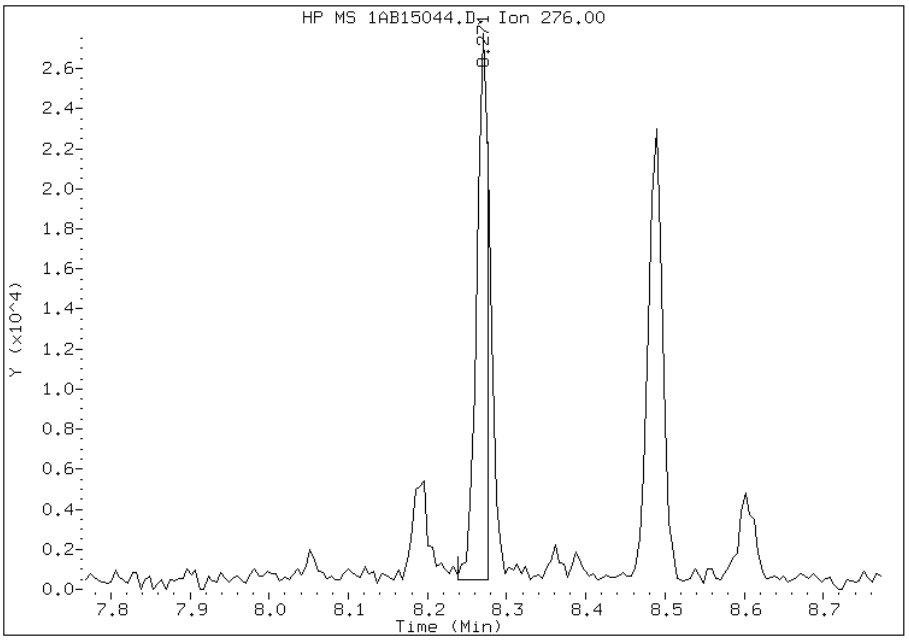
Manual Integration Results

RT: 8.27

Response: 26385

Amount: 1

Conc: 518



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:48
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005Y-CS | Lab Sample ID: 680-87318-36

Matrix: Solid | Lab File ID: 1AB15045.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 15:00

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.15(g) | Date Analyzed: 02/16/2013 01:11

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

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

% Moisture: 29.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	560	U	560	110
208-96-8	Acenaphthylene	68	J	220	28
120-12-7	Anthracene	140		47	24
56-55-3	Benzo[a]anthracene	510	F	45	22
50-32-8	Benzo[a]pyrene	350	F	58	29
205-99-2	Benzo[b]fluoranthene	610	F	68	34
191-24-2	Benzo[g,h,i]perylene	310	F	110	25
207-08-9	Benzo[k]fluoranthene	210	F	45	20
218-01-9	Chrysene	450	F	50	25
53-70-3	Dibenz(a,h)anthracene	140		110	23
206-44-0	Fluoranthene	630	F	110	22
86-73-7	Fluorene	110	U	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	320	F	110	40
90-12-0	1-Methylnaphthalene	190	J	220	25
91-57-6	2-Methylnaphthalene	230		220	40
91-20-3	Naphthalene	170	J	220	25
85-01-8	Phenanthrene	440	F	45	22
129-00-0	Pyrene	460	F	110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15045.D
Lab Smp Id: 680-87318-A-36-A Client Smp ID: CV0005Y-CS
Inj Date : 16-FEB-2013 01:11
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-36-a
Misc Info : 680-87318-A-36-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 42
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	29.251	% 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	2.427	2.415	(1.000)	738991	40.0000	
* 6 Acenaphthene-d10	164	3.448	3.441	(1.000)	523970	40.0000	
* 10 Phenanthrene-d10	188	4.393	4.386	(1.000)	783296	40.0000	
$ 14 o-Terphenyl	230	4.671	4.664	(1.063)	23676	2.08018	776.2949
* 18 Chrysene-d12	240	6.423	6.411	(1.000)	696446	40.0000	
* 23 Perylene-d12	264	7.529	7.501	(1.000)	835502	40.0000	
2 Naphthalene	128	2.433	2.426	(1.002)	8261	0.46056	171.8730
3 2-Methylnaphthalene	141	2.839	2.832	(1.169)	5953	0.61951	231.1919
4 1-Methylnaphthalene	142	2.892	2.885	(1.191)	5435	0.49965	186.4626
5 Acenaphthylene	152	3.368	3.355	(0.977)	4241	0.18331	68.4079
11 Phenanthrene	178	4.409	4.402	(1.004)	25209	1.17869	439.8707
12 Anthracene	178	4.441	4.434	(1.011)	8118	0.37229	138.9331
13 Carbazole	167	4.602	4.589	(1.047)	3756	0.20095	74.9904
15 Fluoranthene	202	5.275	5.262	(1.201)	36004	1.69796	633.6571

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.446	5.433	(0.848)	30713	1.22109	455.6940
17 Benzo(a)anthracene	228	6.418	6.395	(0.999)	28326	1.36216	508.3392
19 Chrysene	228	6.439	6.427	(1.002)	24463	1.20690	450.3989
20 Benzo(b)fluoranthene	252	7.241	7.217	(0.962)	38083	1.63313	609.4612(M)
21 Benzo(k)fluoranthene	252	7.251	7.239	(0.963)	14014	0.57480	214.5058(QM)
22 Benzo(a)pyrene	252	7.470	7.452	(0.992)	20793	0.93899	350.4166
24 Indeno(1,2,3-cd)pyrene	276	8.266	8.238	(1.098)	14973	0.85630	319.5606(M)
25 Dibenzo(a,h)anthracene	278	8.282	8.254	(1.100)	6454	0.36921	137.7842
26 Benzo(g,h,i)perylene	276	8.485	8.446	(1.127)	15033	0.82986	309.6930

QC Flag Legend

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

Data File: 1AB15045.D

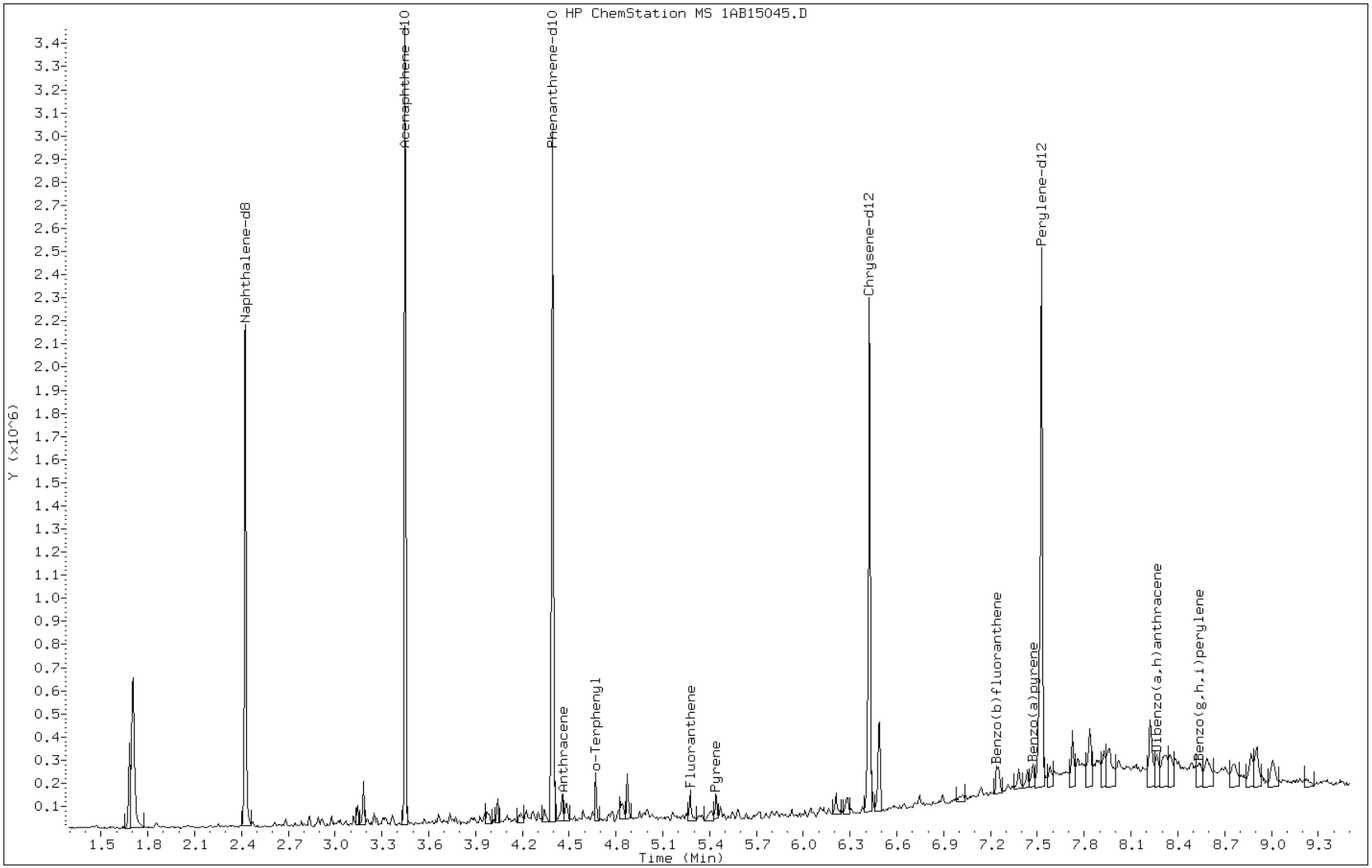
Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a

Operator: SCC



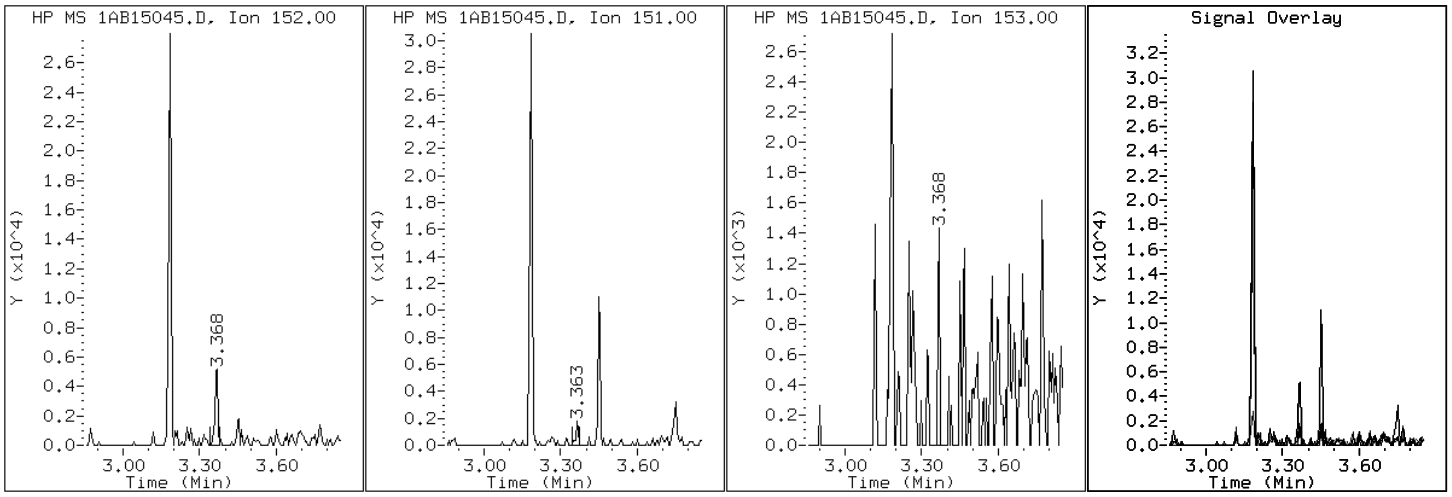
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

5 Acenaphthylene



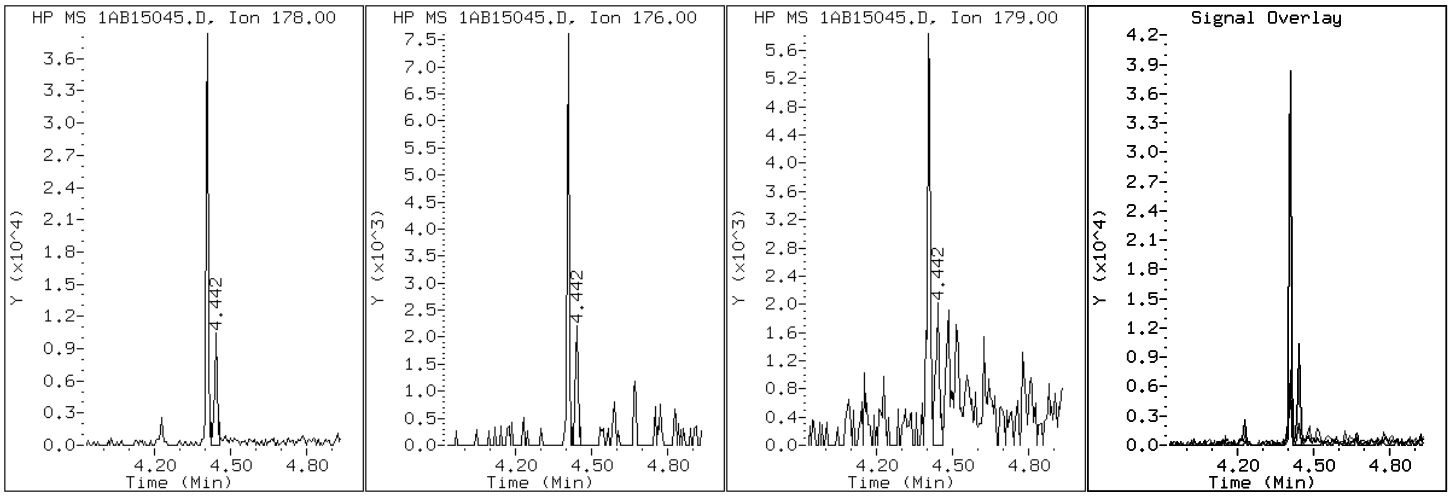
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

12 Anthracene



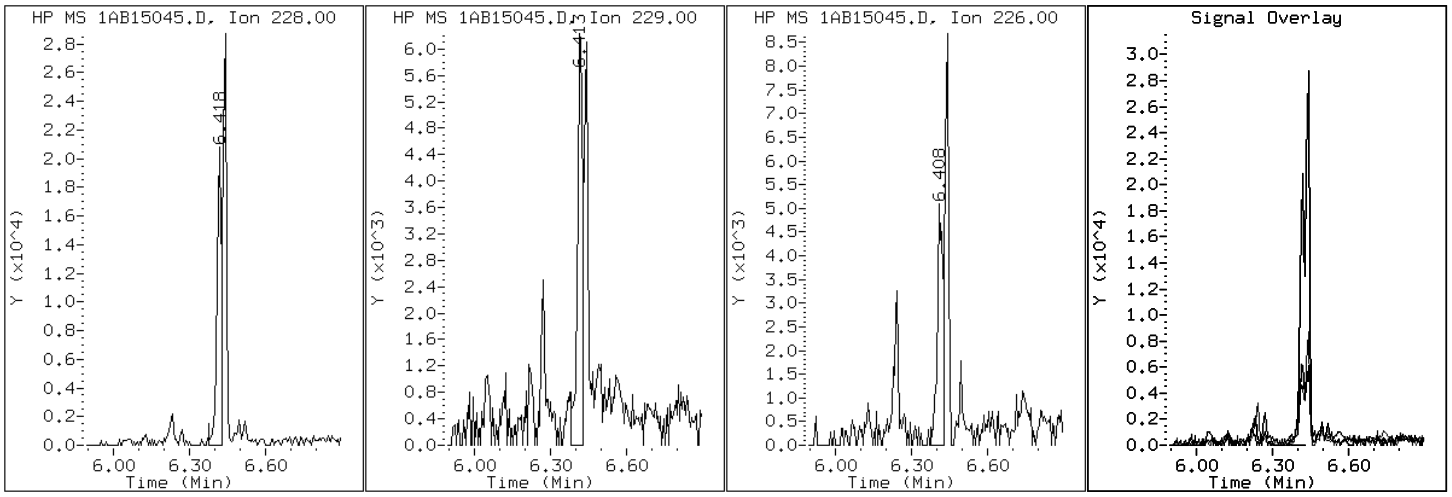
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

17 Benzo(a)anthracene



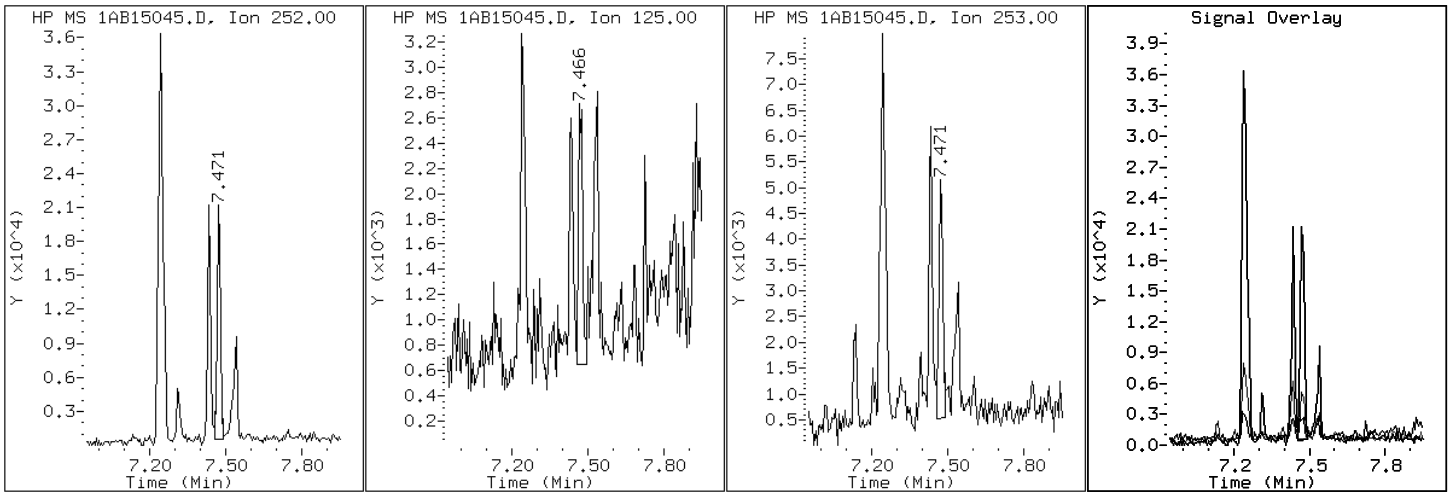
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

22 Benzo(a)pyrene



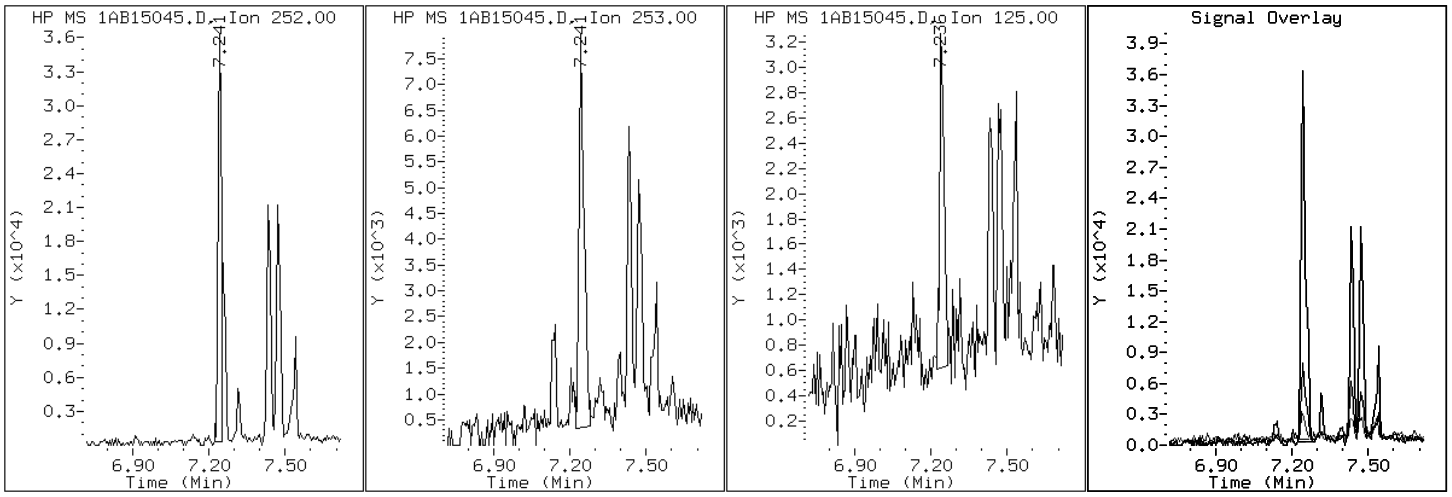
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

20 Benzo(b)fluoranthene



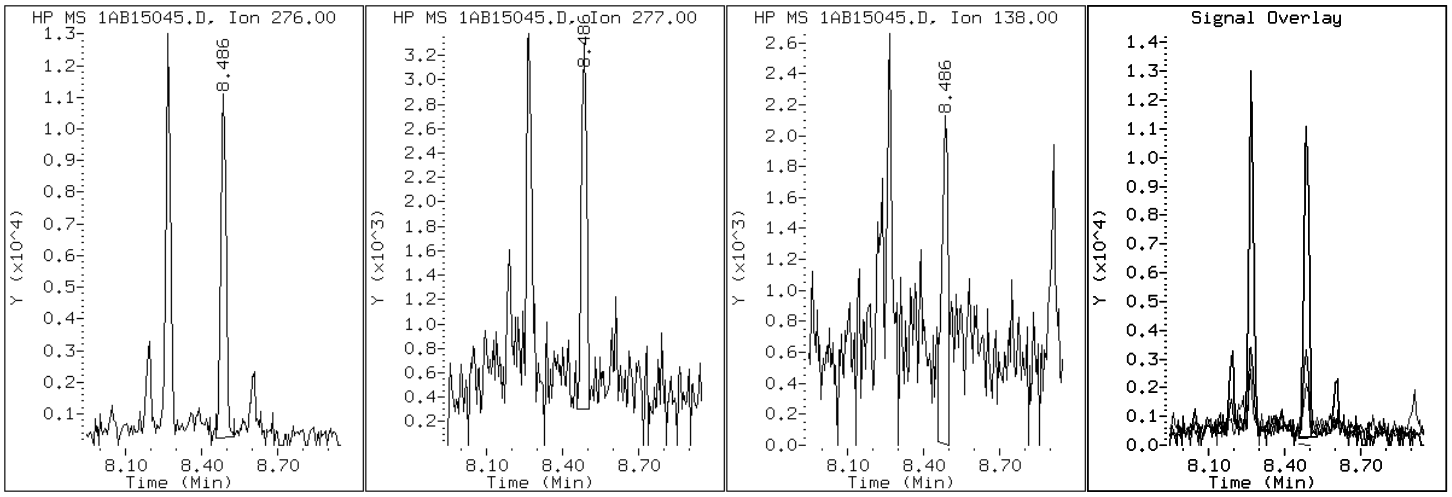
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

26 Benzo(g,h,i)perylene



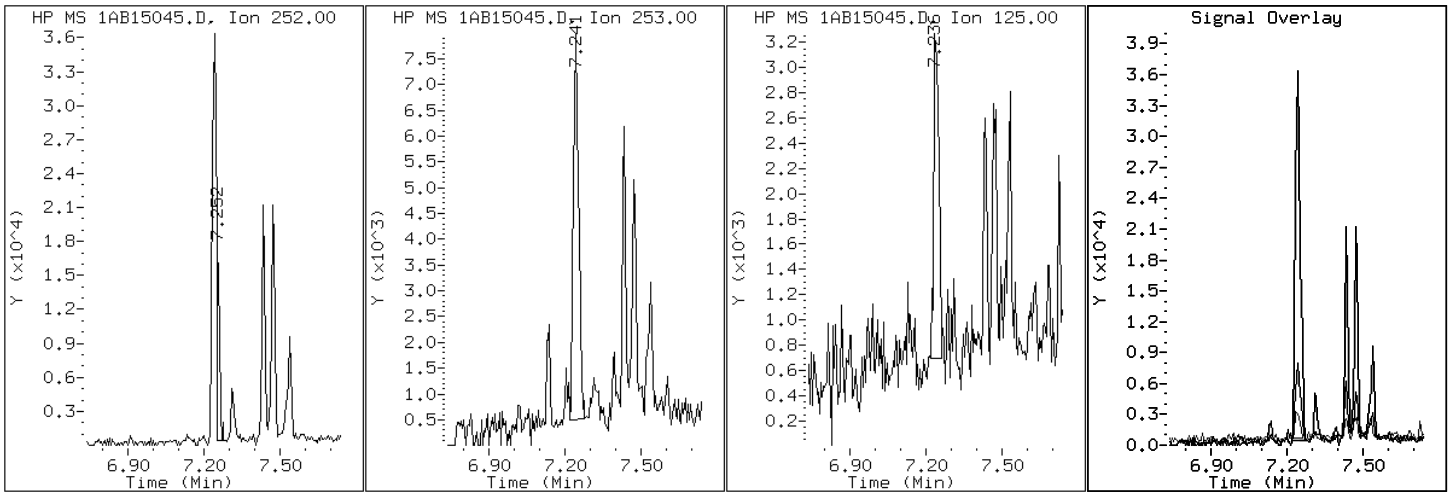
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

21 Benzo(k)fluoranthene



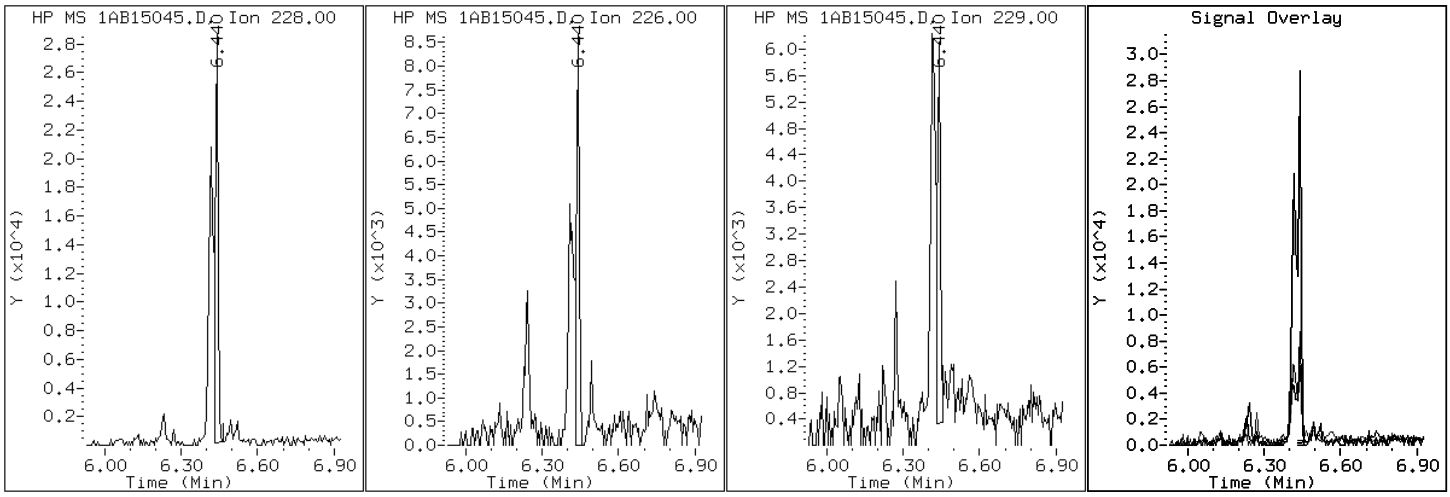
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

19 Chrysene



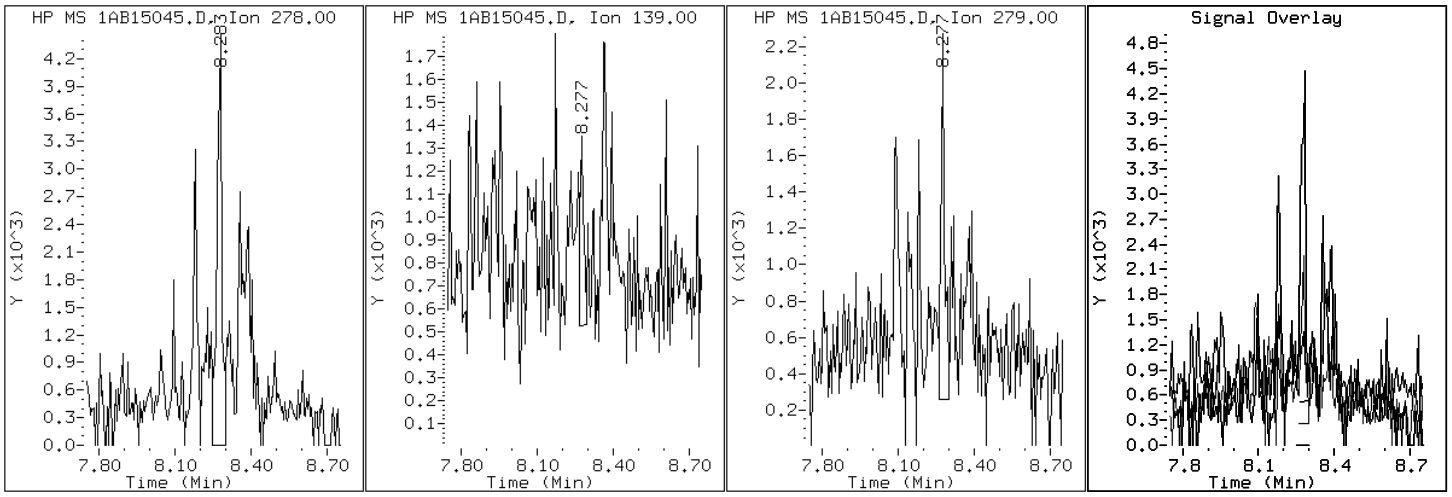
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

25 Dibenzo(a,h)anthracene



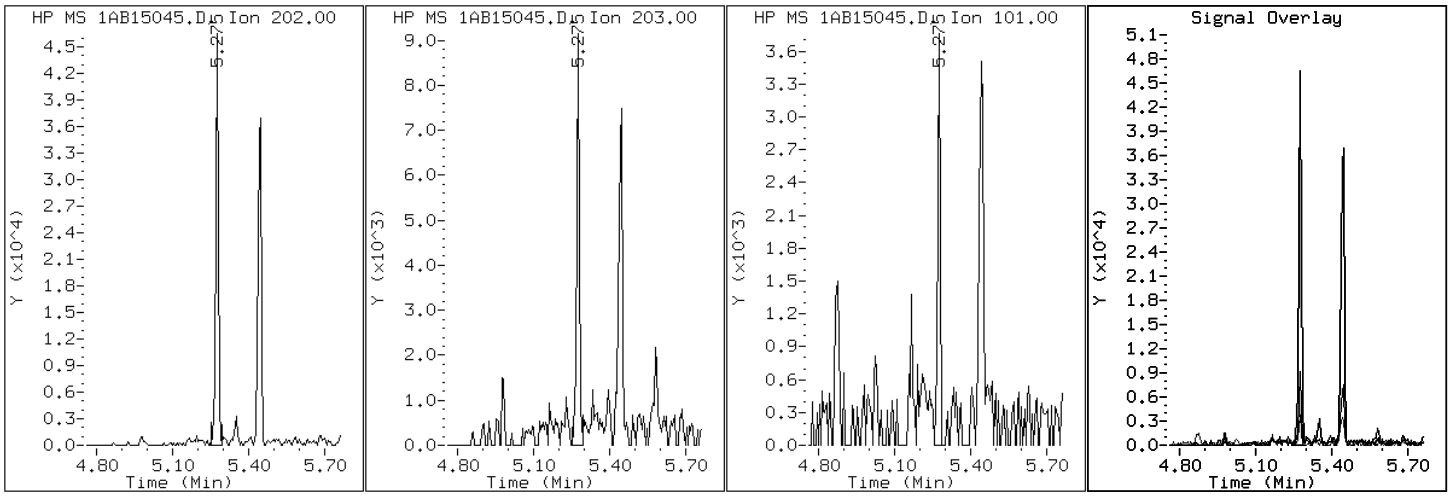
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

15 Fluoranthene



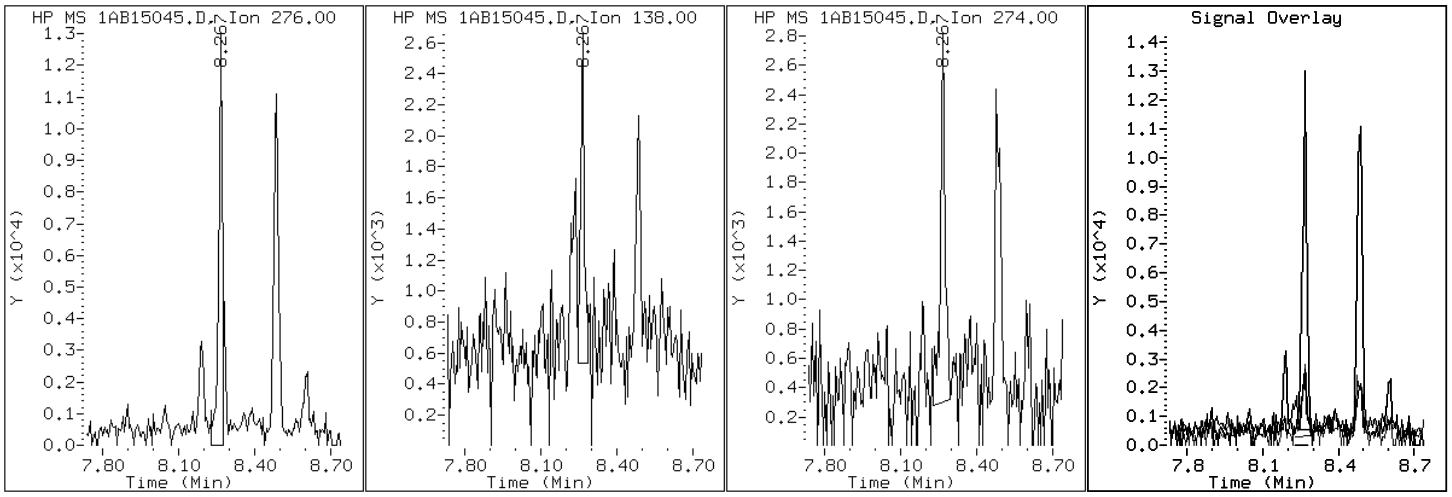
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

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



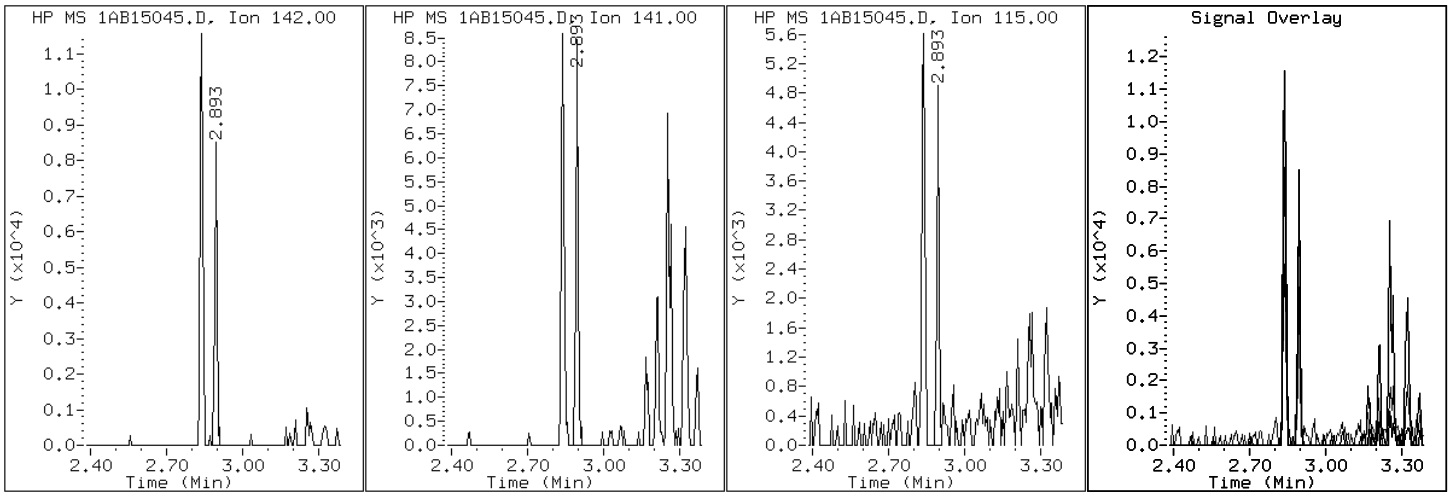
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

4 1-Methylnaphthalene



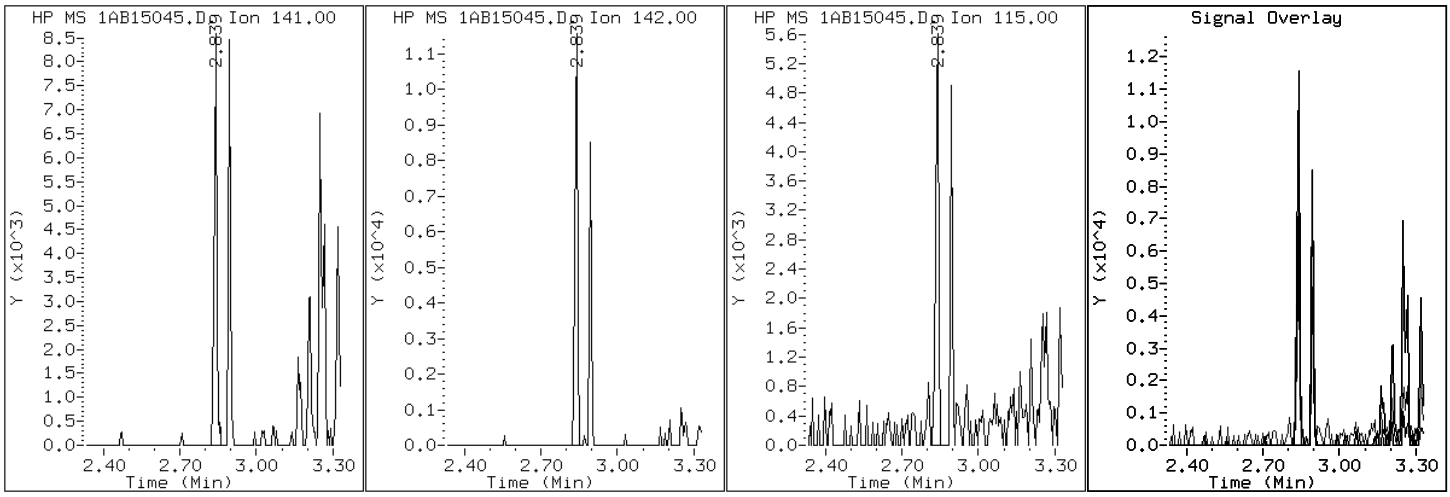
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

3 2-Methylnaphthalene



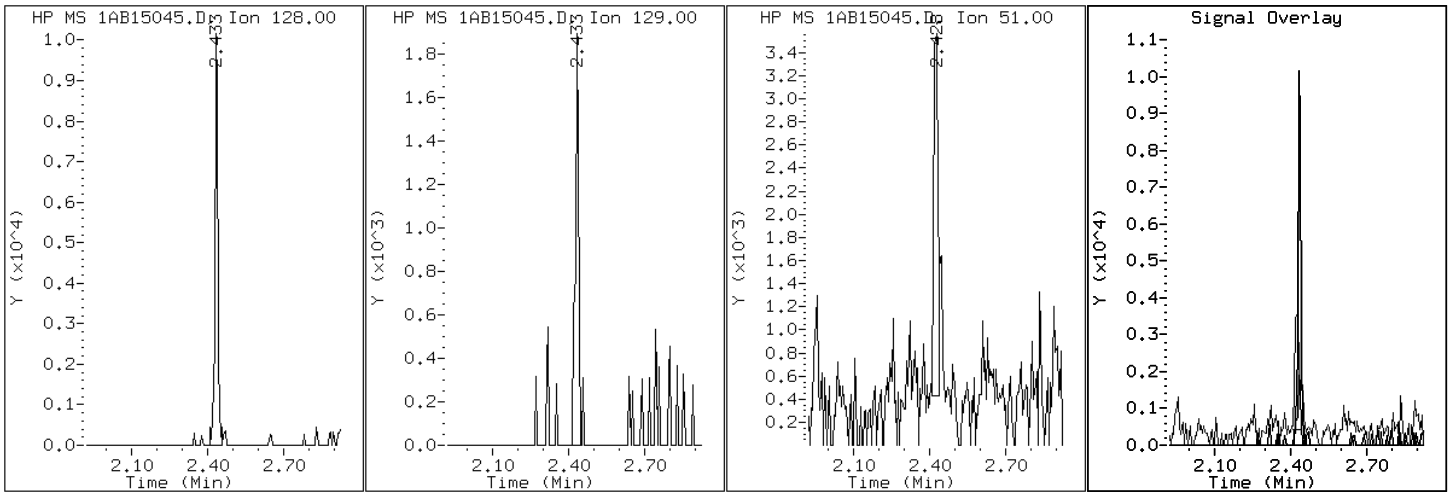
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

2 Naphthalene



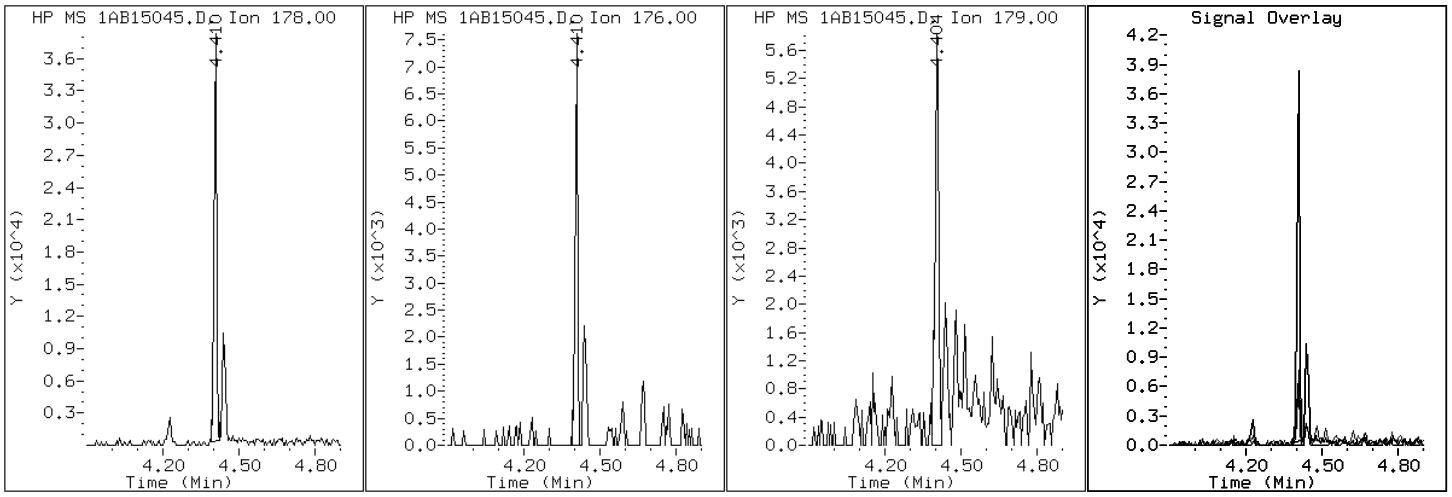
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

11 Phenanthrene



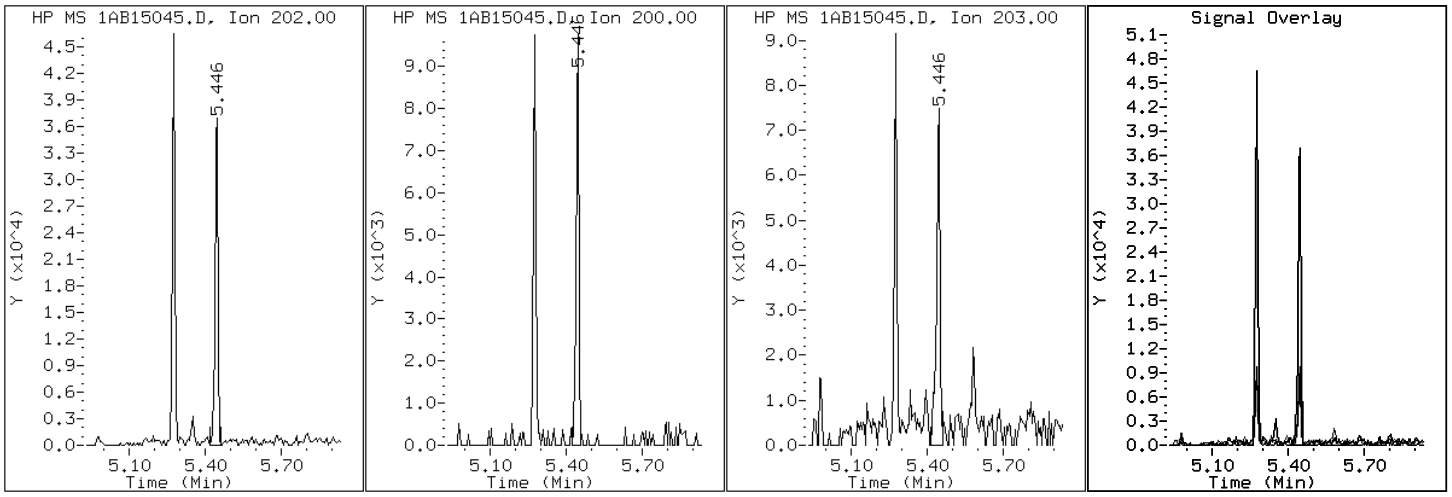
Data File: 1AB15045.D

Date: 16-FEB-2013 01:11

Client ID: CV0005Y-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15045.D
Inj. Date and Time: 16-FEB-2013 01:11
Instrument ID: BSMA5973.i
Client ID: CV0005Y-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

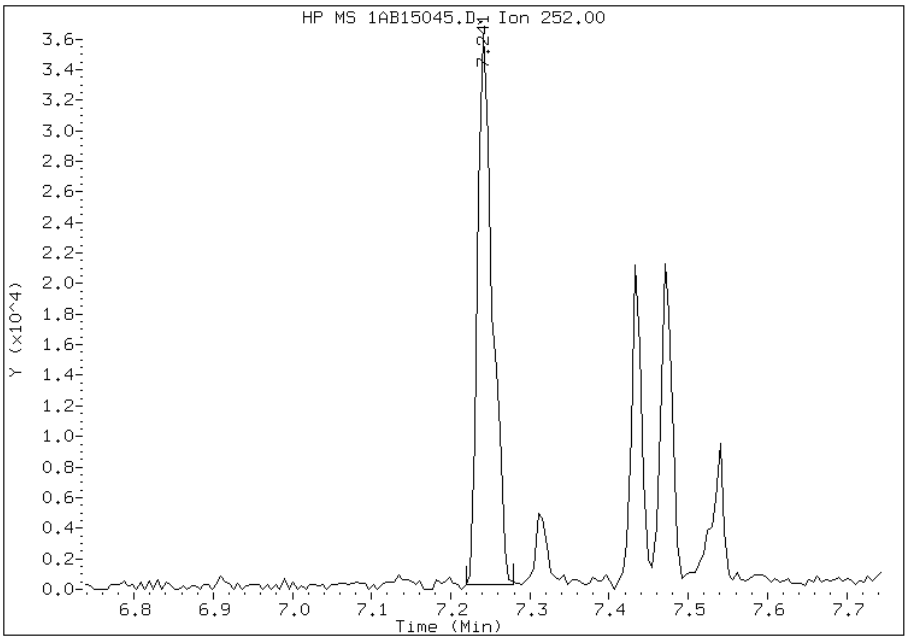
Processing Integration Results

RT: 7.24

Response: 46714

Amount: 2

Conc: 748



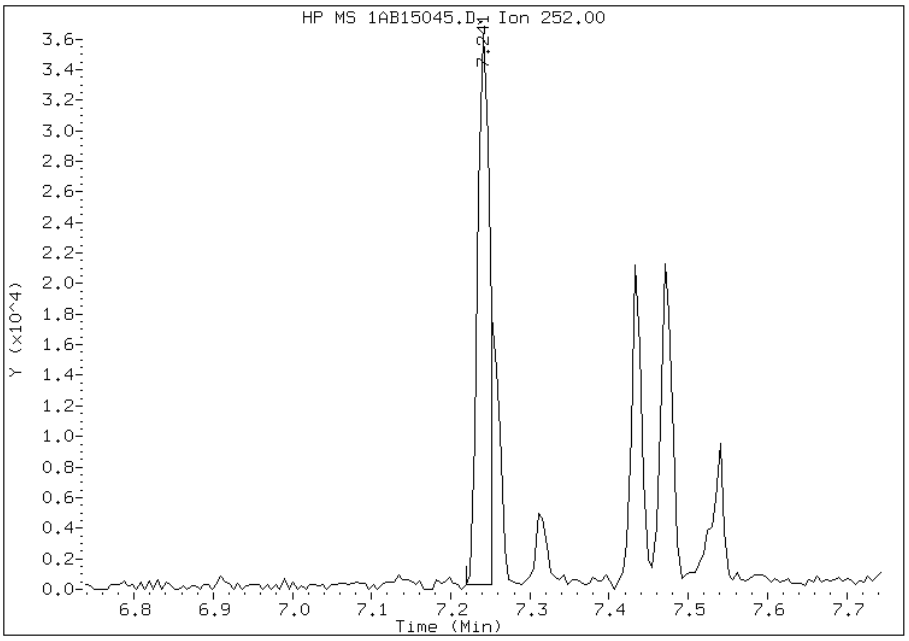
Manual Integration Results

RT: 7.24

Response: 38083

Amount: 2

Conc: 609



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:49
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15045.D
Inj. Date and Time: 16-FEB-2013 01:11
Instrument ID: BSMA5973.i
Client ID: CV0005Y-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

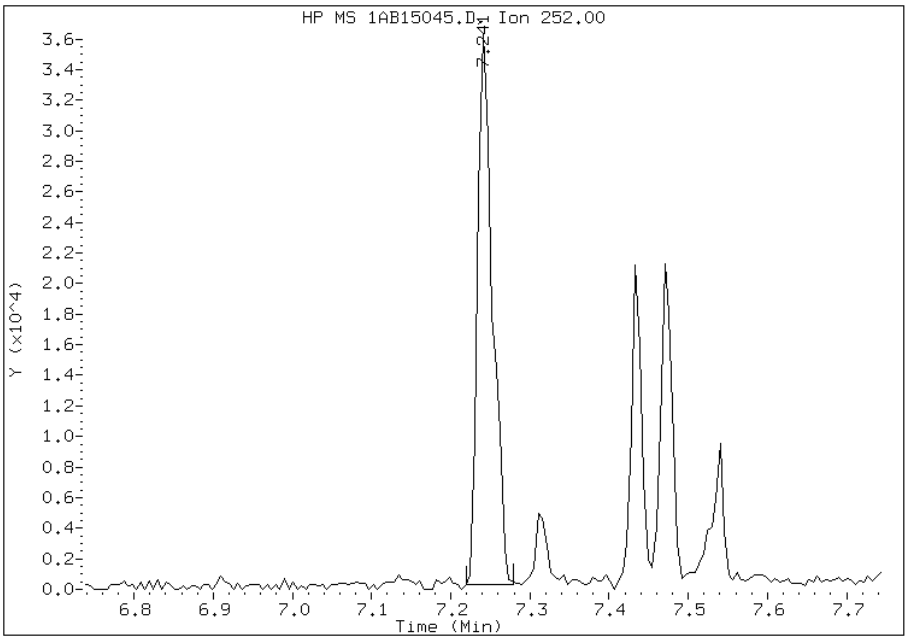
Processing Integration Results

RT: 7.24

Response: 46687

Amount: 2

Conc: 715



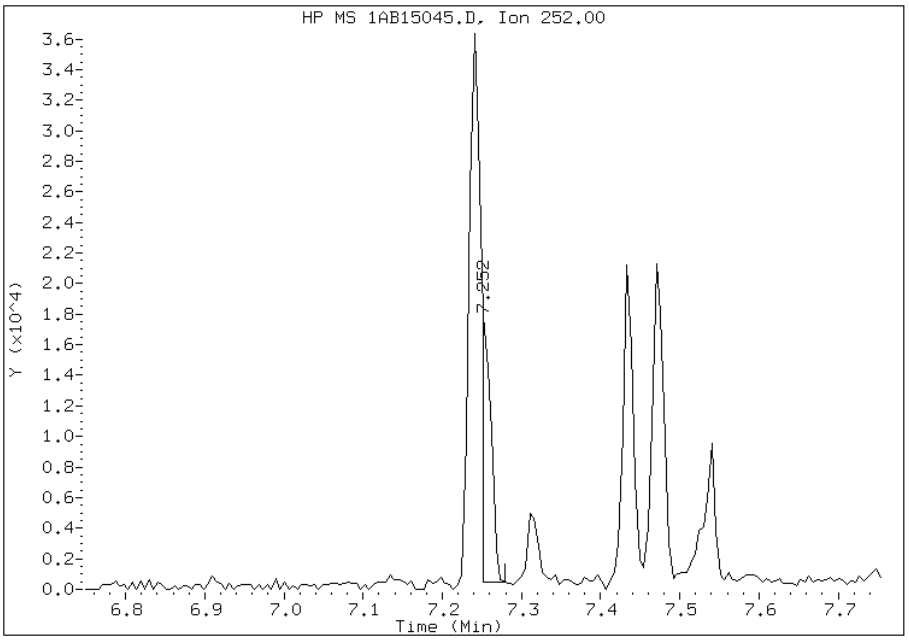
Manual Integration Results

RT: 7.25

Response: 14014

Amount: 1

Conc: 215



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:49
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15045.D
Inj. Date and Time: 16-FEB-2013 01:11
Instrument ID: BSMA5973.i
Client ID: CV0005Y-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

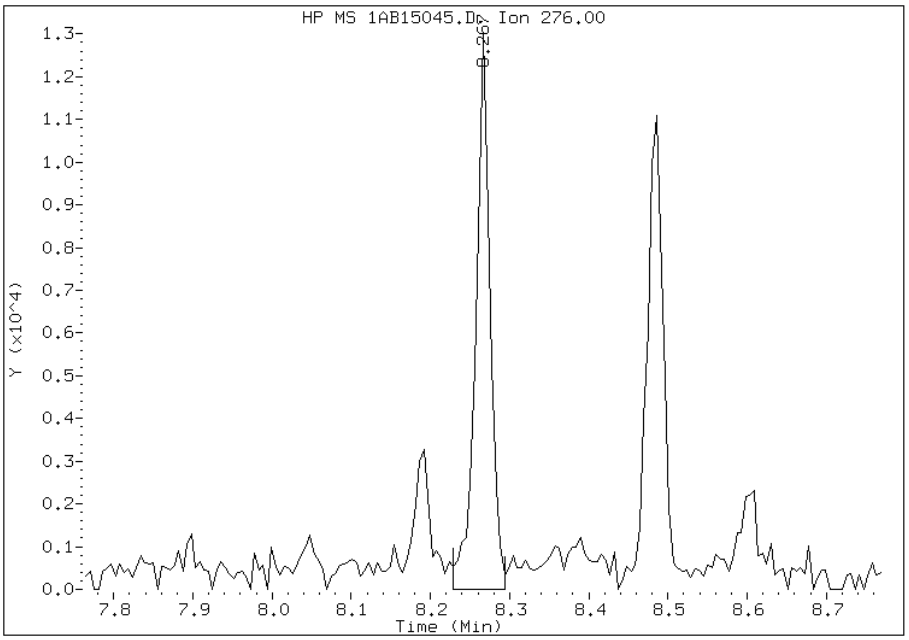
Processing Integration Results

RT: 8.27

Response: 16187

Amount: 1

Conc: 345



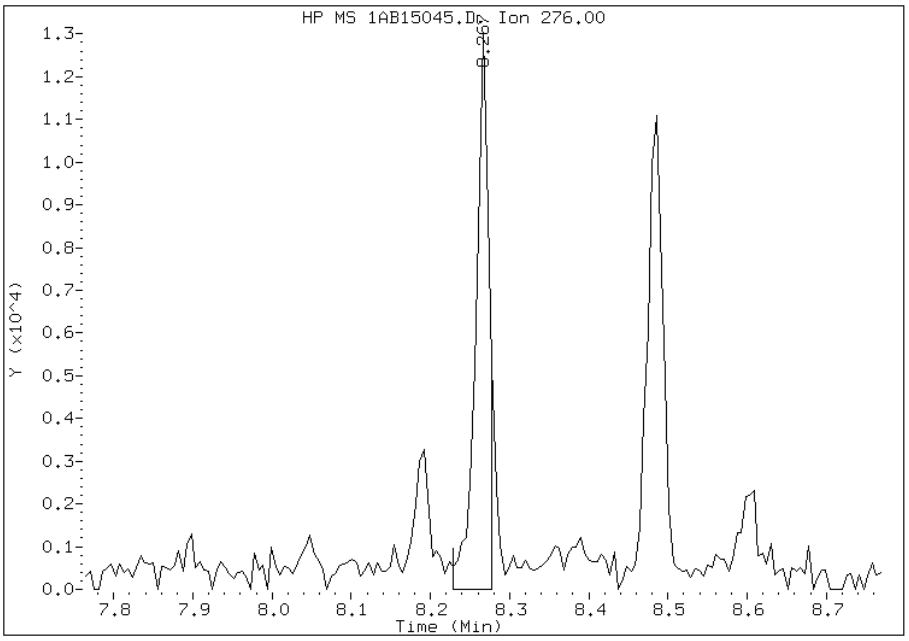
Manual Integration Results

RT: 8.27

Response: 14973

Amount: 1

Conc: 320



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:49
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005Z-CS | Lab Sample ID: 680-87318-37

Matrix: Solid | Lab File ID: 1AB15048.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 15:10

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.05(g) | Date Analyzed: 02/16/2013 01:57

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

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

% Moisture: 5.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	420	U	420	84
208-96-8	Acenaphthylene	57	J	170	21
120-12-7	Anthracene	91		35	18
56-55-3	Benzo[a]anthracene	270		34	16
50-32-8	Benzo[a]pyrene	220		44	22
205-99-2	Benzo[b]fluoranthene	370		51	26
191-24-2	Benzo[g,h,i]perylene	190		84	18
207-08-9	Benzo[k]fluoranthene	110		34	15
218-01-9	Chrysene	310		38	19
53-70-3	Dibenz(a,h)anthracene	77	J	84	17
206-44-0	Fluoranthene	420		84	17
86-73-7	Fluorene	26	J	84	17
193-39-5	Indeno[1,2,3-cd]pyrene	180		84	30
90-12-0	1-Methylnaphthalene	150	J	170	18
91-57-6	2-Methylnaphthalene	180		170	30
91-20-3	Naphthalene	130	J	170	18
85-01-8	Phenanthrene	280		34	16
129-00-0	Pyrene	270		84	16

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15048.D
Lab Smp Id: 680-87318-A-37-A Client Smp ID: CV0005Z-CS
Inj Date : 16-FEB-2013 01:57
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-37-a
Misc Info : 680-87318-A-37-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 45
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.050	Weight Extracted
M	4.978	% 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	2.425	2.415	(1.000)	706412	40.0000	
* 6 Acenaphthene-d10	164	3.451	3.441	(1.000)	501226	40.0000	
* 10 Phenanthrene-d10	188	4.397	4.386	(1.000)	778337	40.0000	
$ 14 o-Terphenyl	230	4.675	4.664	(1.063)	22563	1.99502	558.0184
* 18 Chrysene-d12	240	6.427	6.411	(1.000)	700686	40.0000	
* 23 Perylene-d12	264	7.533	7.501	(1.000)	830279	40.0000	(H)
2 Naphthalene	128	2.436	2.426	(1.004)	7887	0.45998	128.6598
3 2-Methylnaphthalene	141	2.837	2.832	(1.170)	6049	0.65853	184.1944
4 1-Methylnaphthalene	142	2.890	2.885	(1.192)	5597	0.53827	150.5579
5 Acenaphthylene	152	3.366	3.355	(0.975)	4508	0.20369	56.9731
9 Fluorene	166	3.777	3.772	(1.094)	1379	0.09155	25.6082
11 Phenanthrene	178	4.407	4.402	(1.002)	20920	0.98438	275.3368
12 Anthracene	178	4.445	4.434	(1.011)	7073	0.32643	91.3048
13 Carbazole	167	4.600	4.589	(1.046)	3617	0.19474	54.4705

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.278	5.262	(1.200)	31271	1.48415	415.1247
16 Pyrene	202	5.444	5.433	(0.847)	24497	0.96806	270.7715
17 Benzo(a)anthracene	228	6.421	6.395	(0.999)	20349	0.97263	272.0511
19 Chrysene	228	6.437	6.427	(1.002)	22861	1.12104	313.5609
20 Benzo(b)fluoranthene	252	7.244	7.217	(0.962)	30965	1.33624	373.7528(MH)
21 Benzo(k)fluoranthene	252	7.255	7.239	(0.963)	9345	0.38570	107.8834(QMH)
22 Benzo(a)pyrene	252	7.474	7.452	(0.992)	17188	0.78107	218.4697(H)
24 Indeno(1,2,3-cd)pyrene	276	8.264	8.238	(1.097)	11013	0.63379	177.2754(MH)
25 Dibenzo(a,h)anthracene	278	8.280	8.254	(1.099)	4769	0.27453	76.7885(H)
26 Benzo(g,h,i)perylene	276	8.483	8.446	(1.126)	12150	0.67493	188.7820(H)

QC Flag Legend

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

Data File: 1AB15048.D

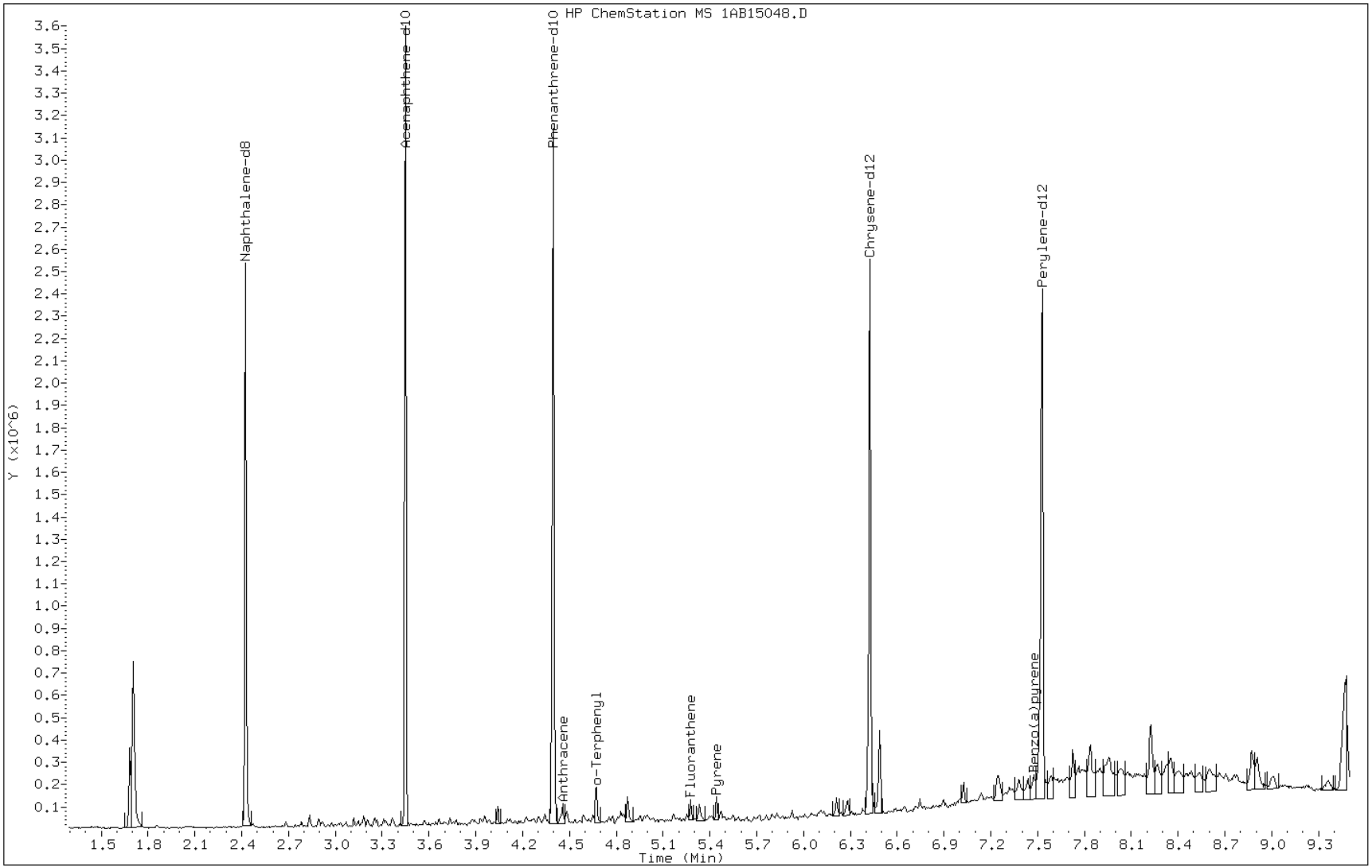
Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a

Operator: SCC



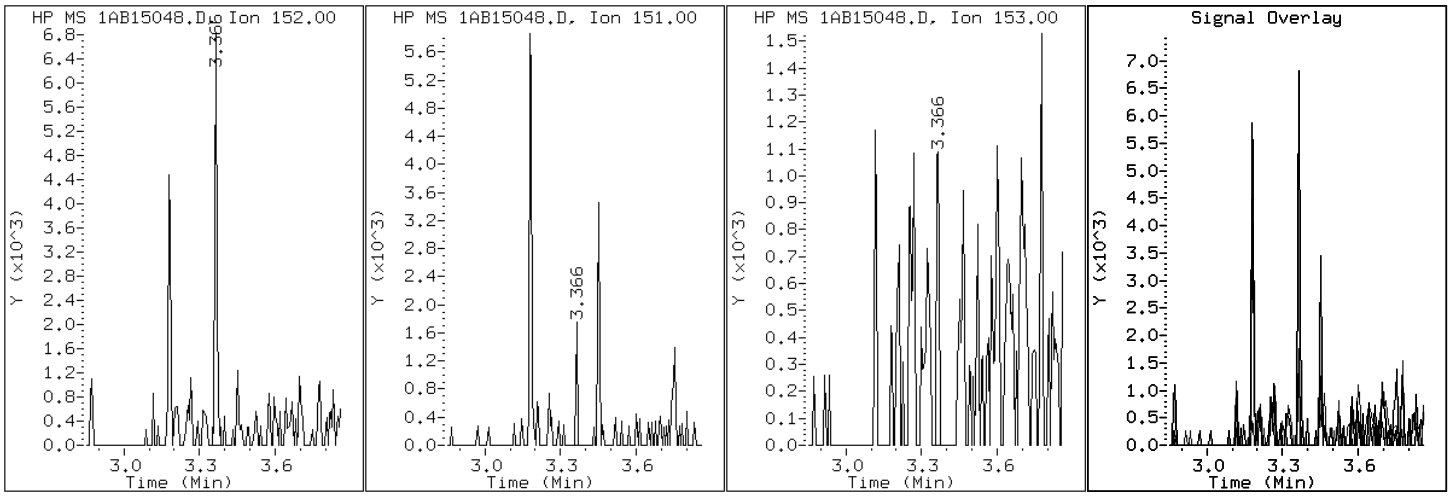
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

5 Acenaphthylene



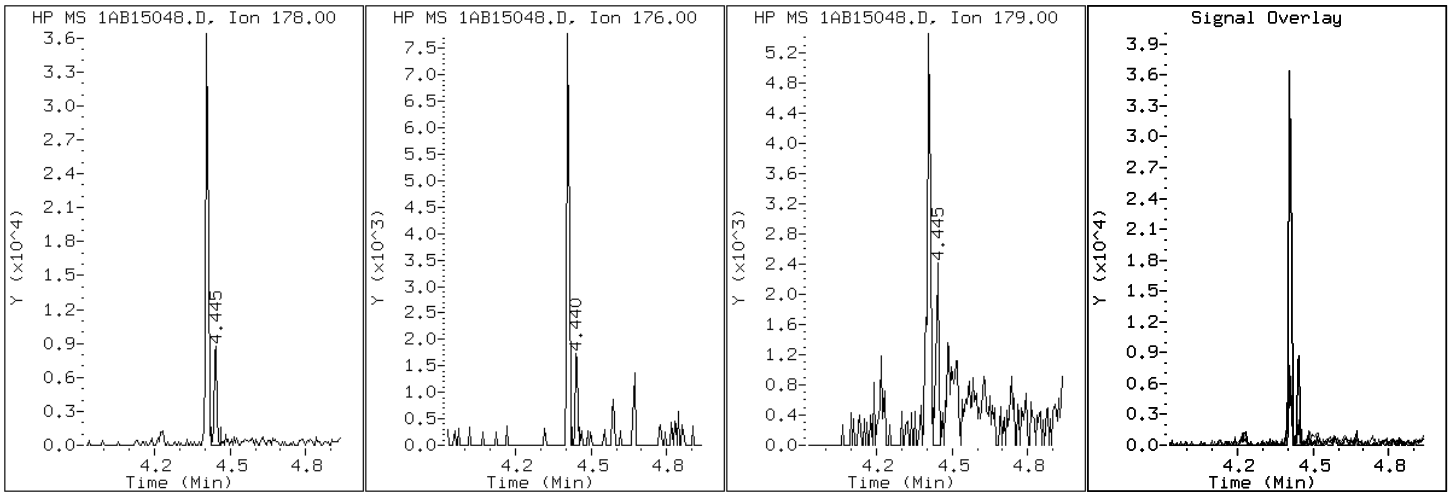
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

12 Anthracene



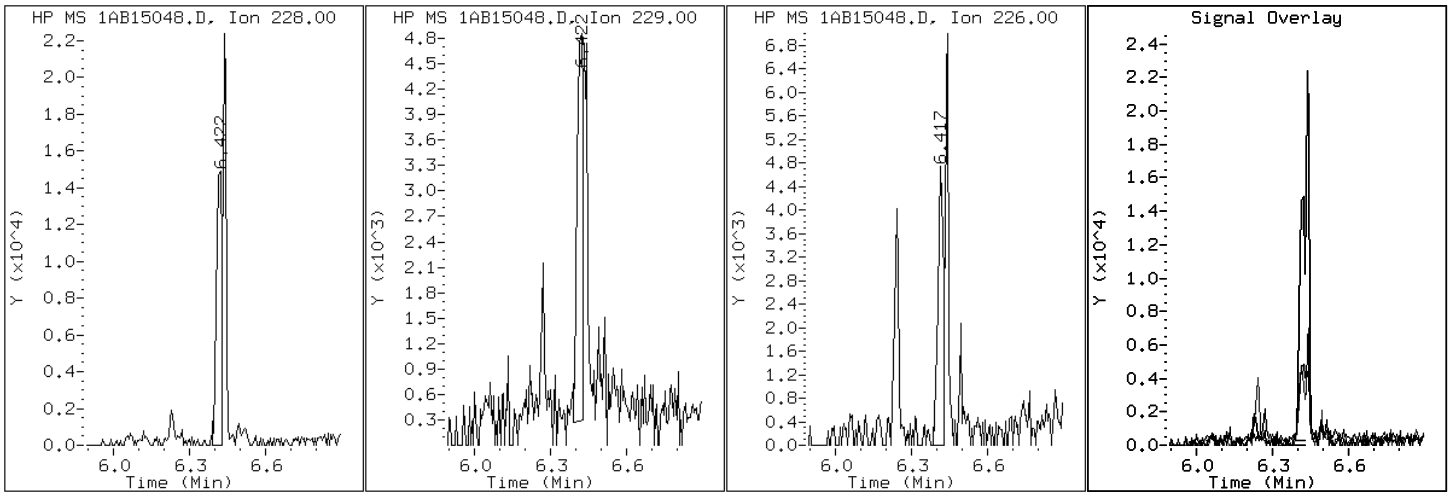
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

17 Benzo(a)anthracene



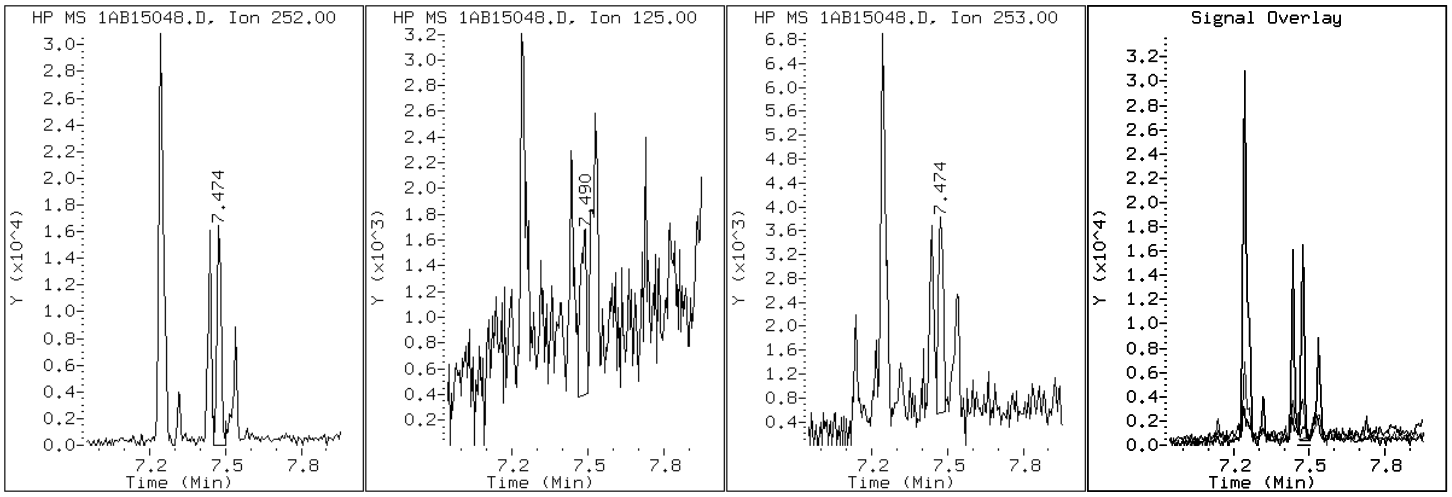
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

22 Benzo(a)pyrene



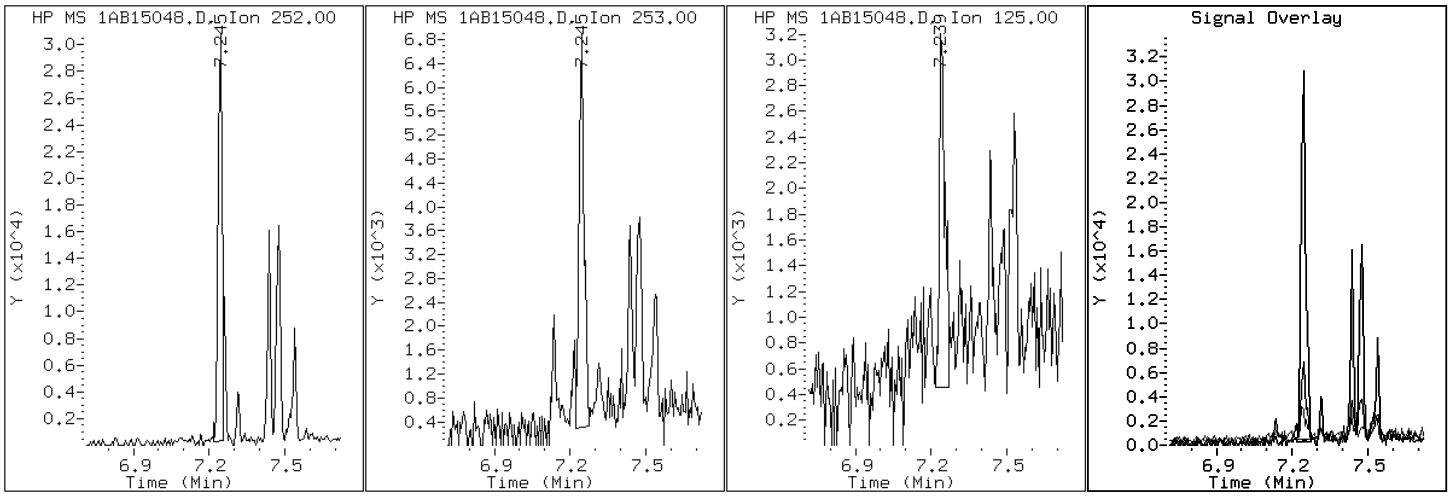
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

20 Benzo(b)fluoranthene



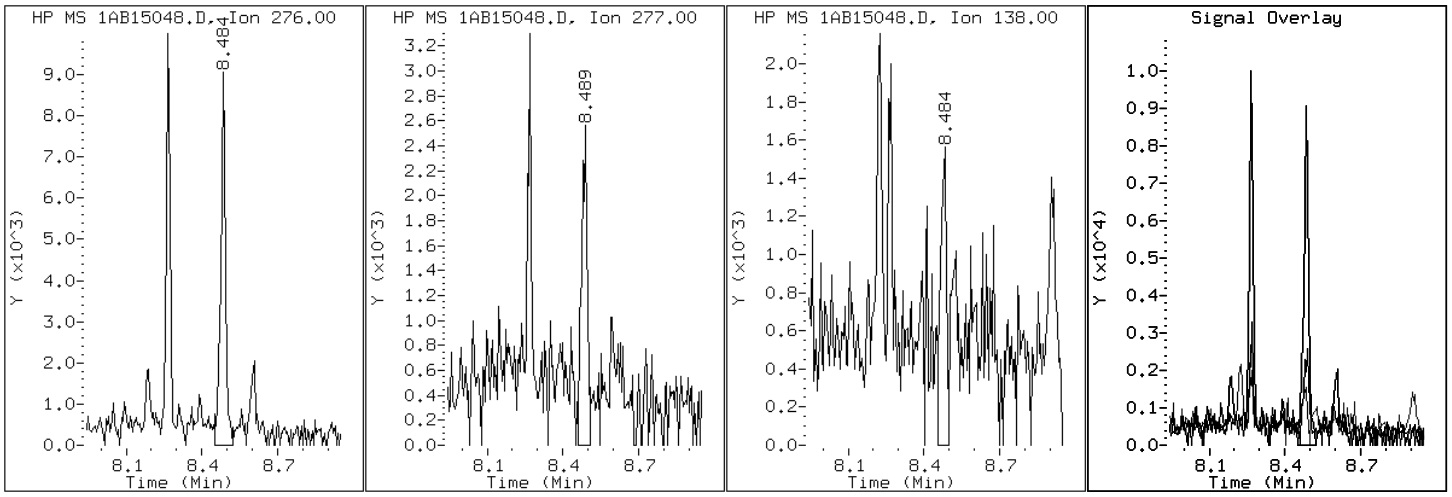
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

26 Benzo(g,h,i)perylene



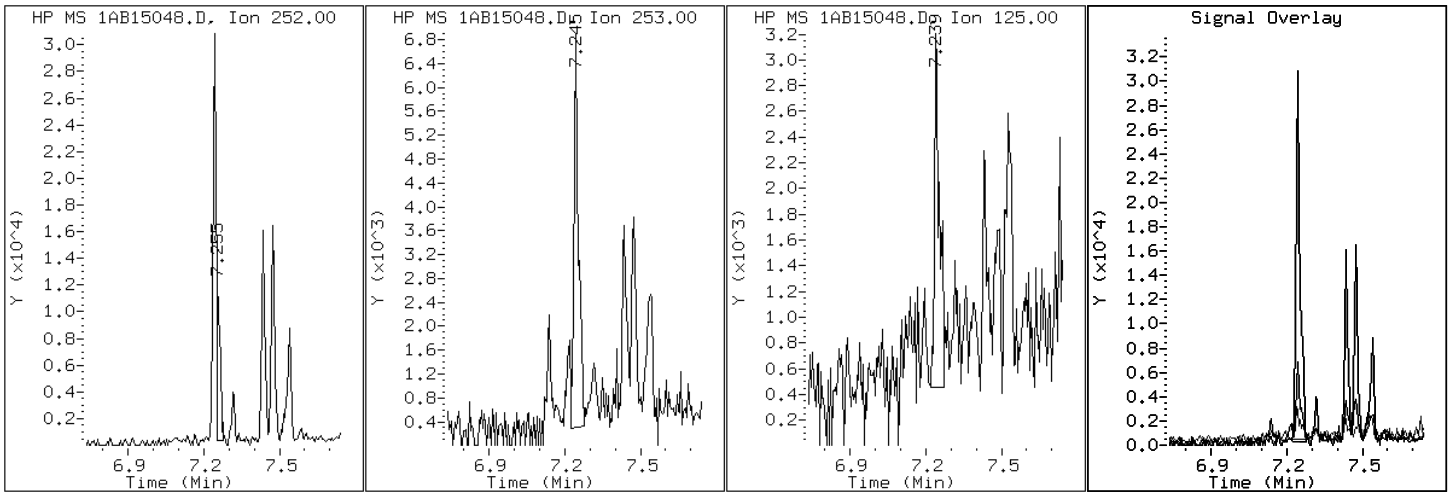
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

21 Benzo(k)fluoranthene



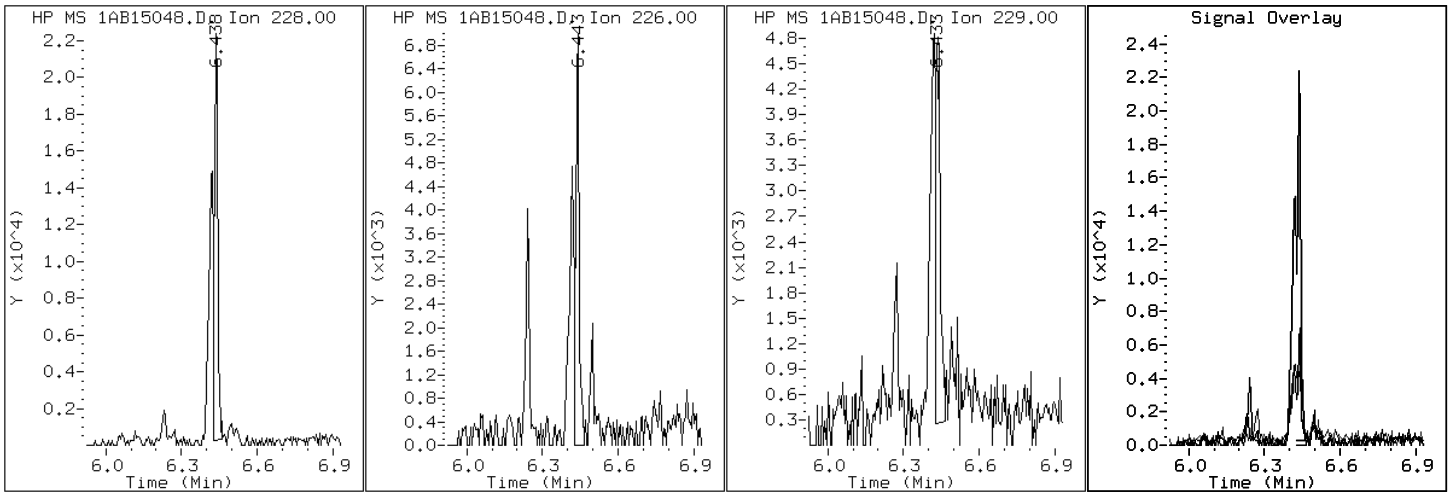
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

19 Chrysene



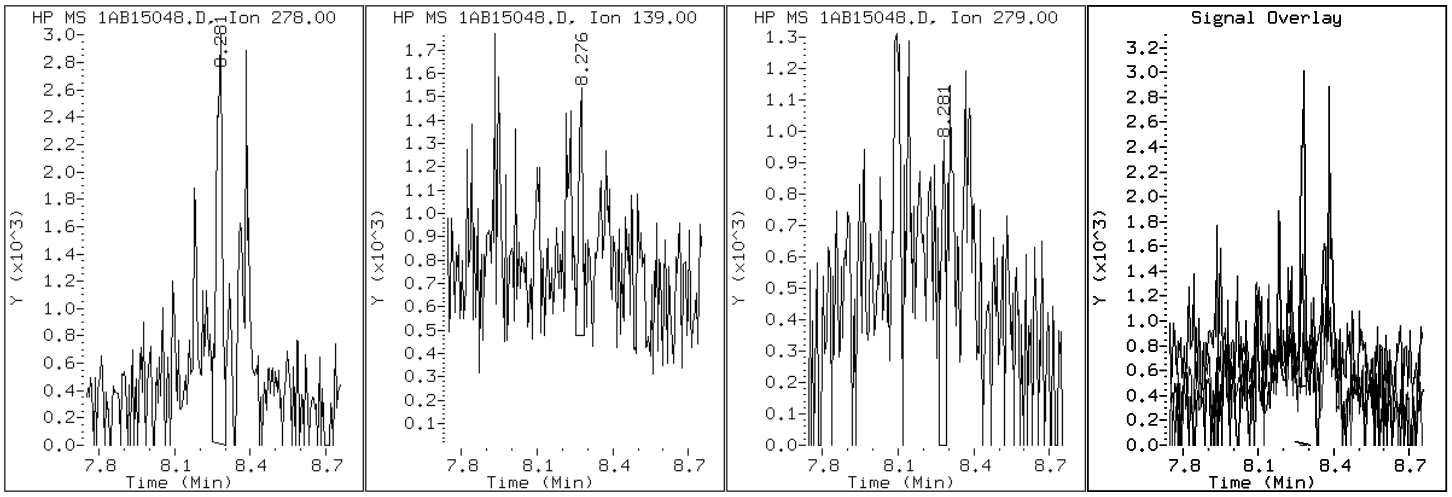
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

25 Dibenzo(a,h)anthracene



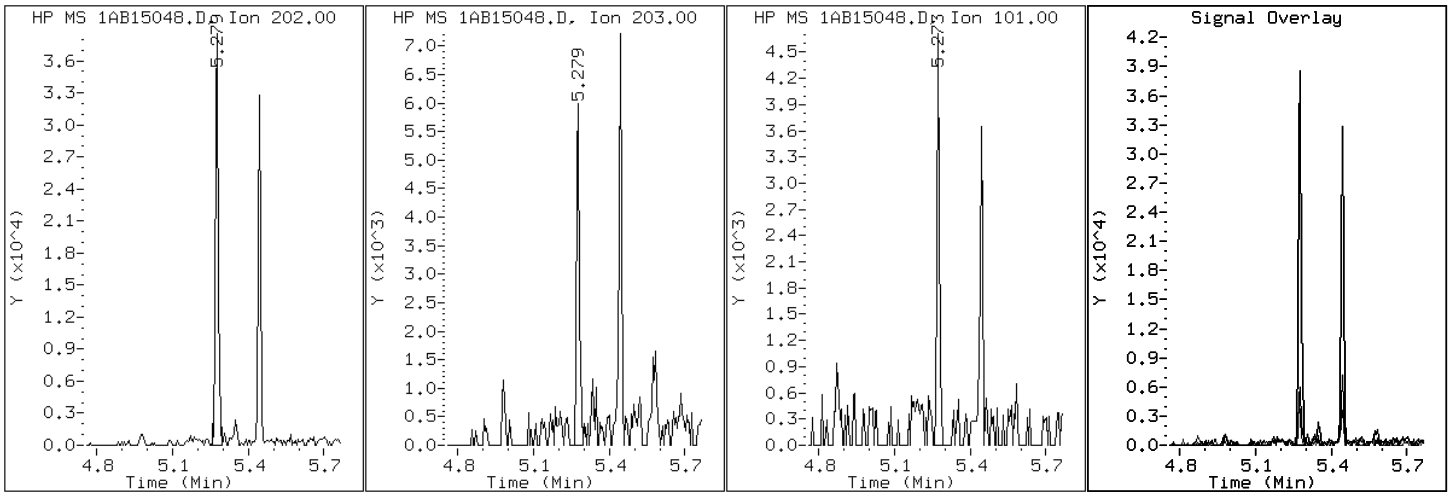
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

15 Fluoranthene



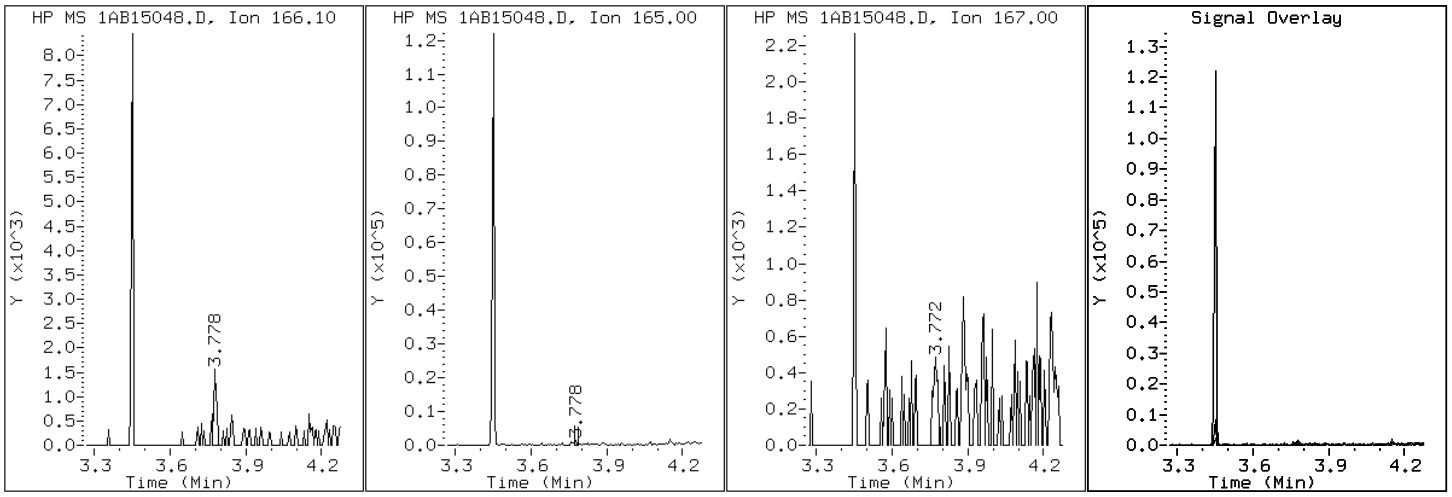
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

9 Fluorene



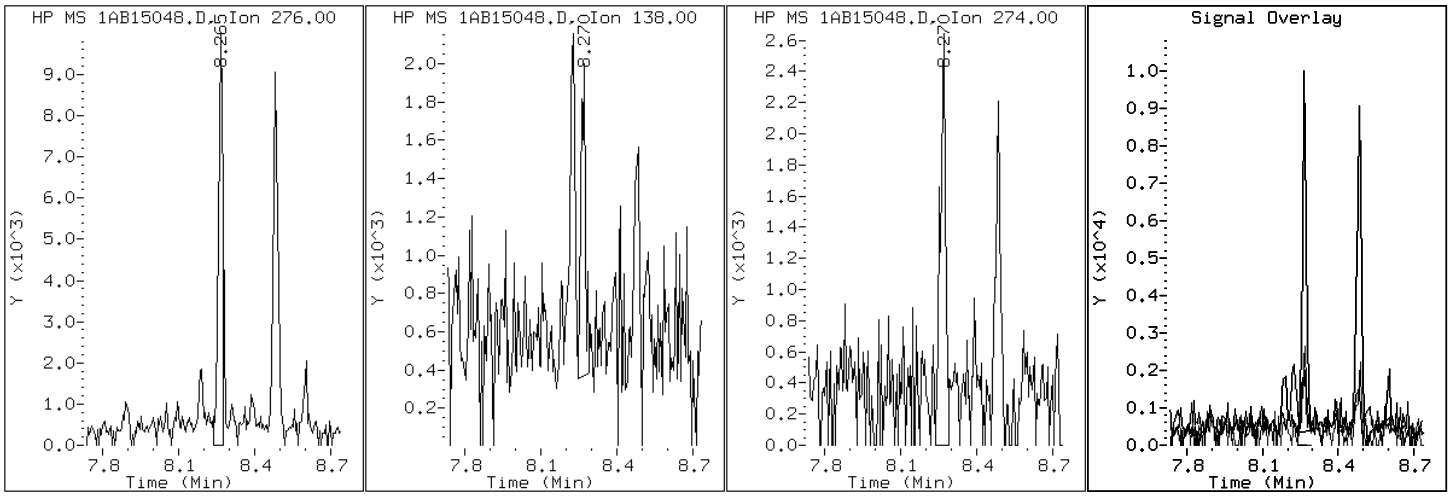
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

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



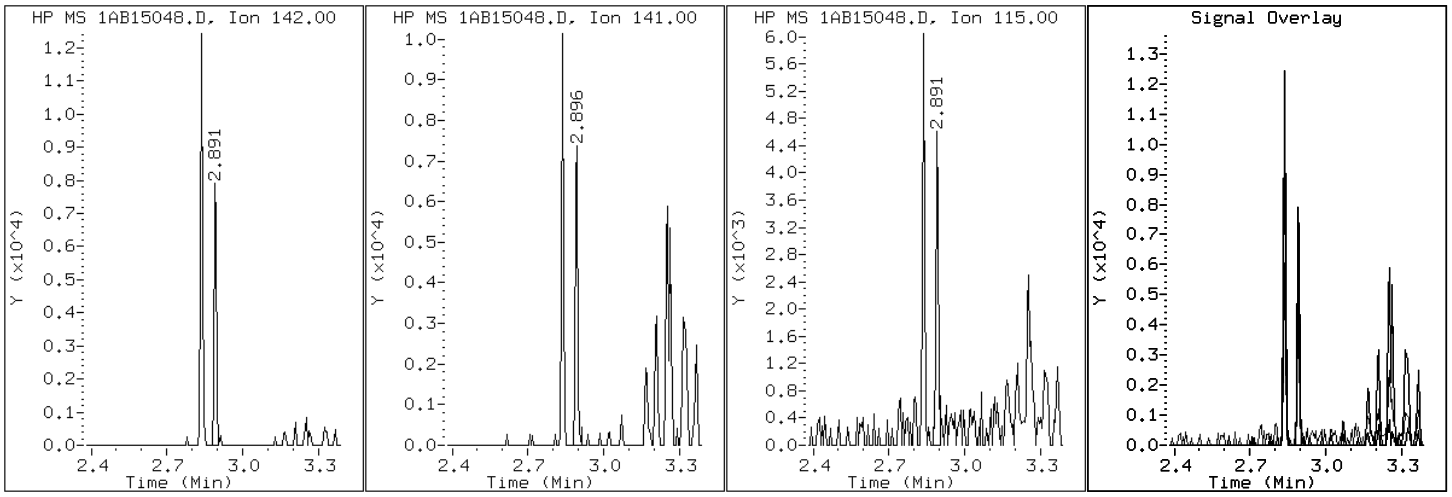
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

4 1-Methylnaphthalene



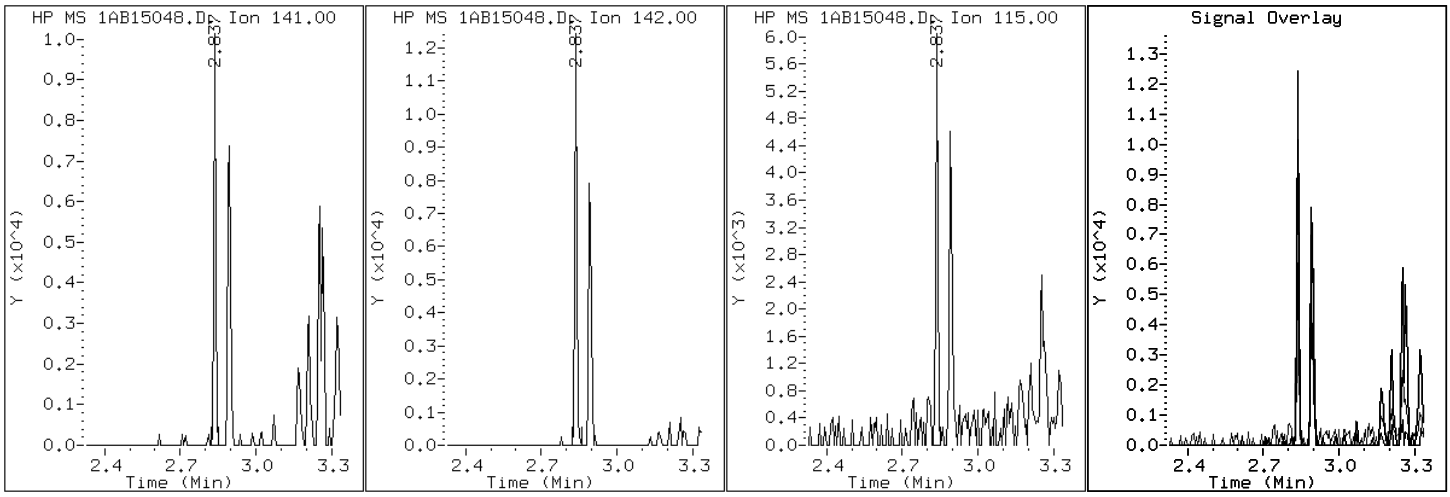
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

3 2-Methylnaphthalene



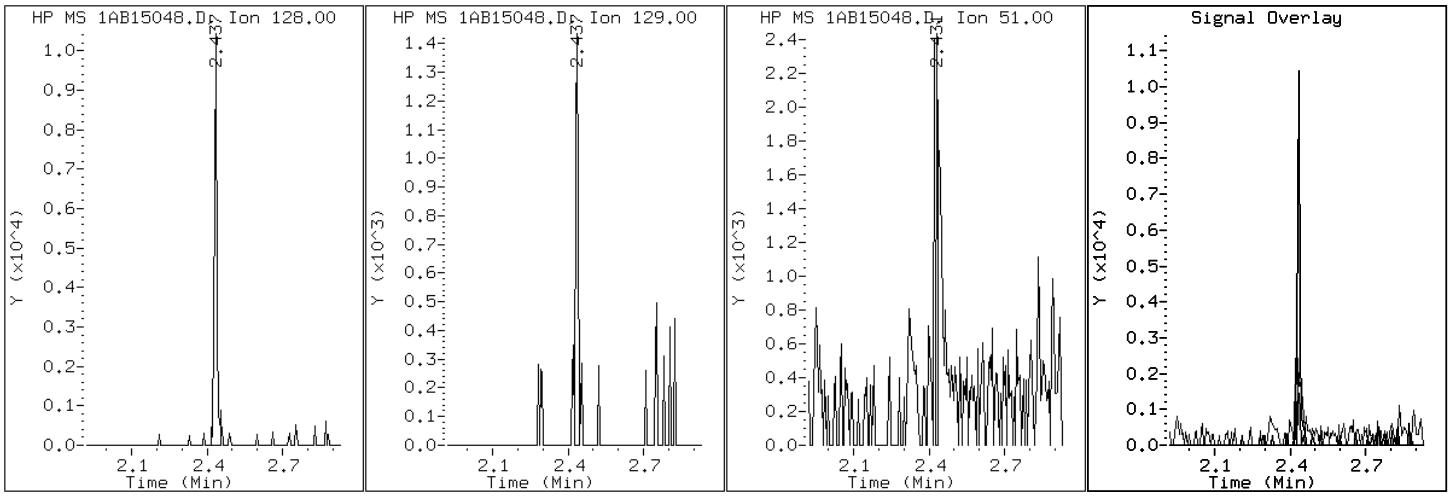
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

2 Naphthalene



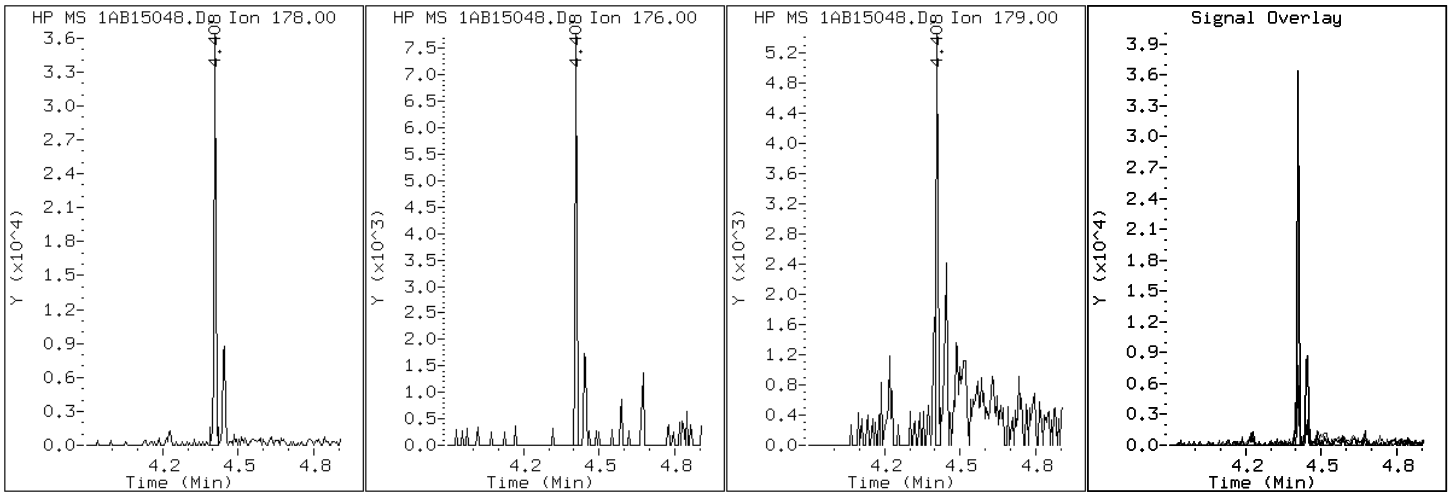
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

11 Phenanthrene



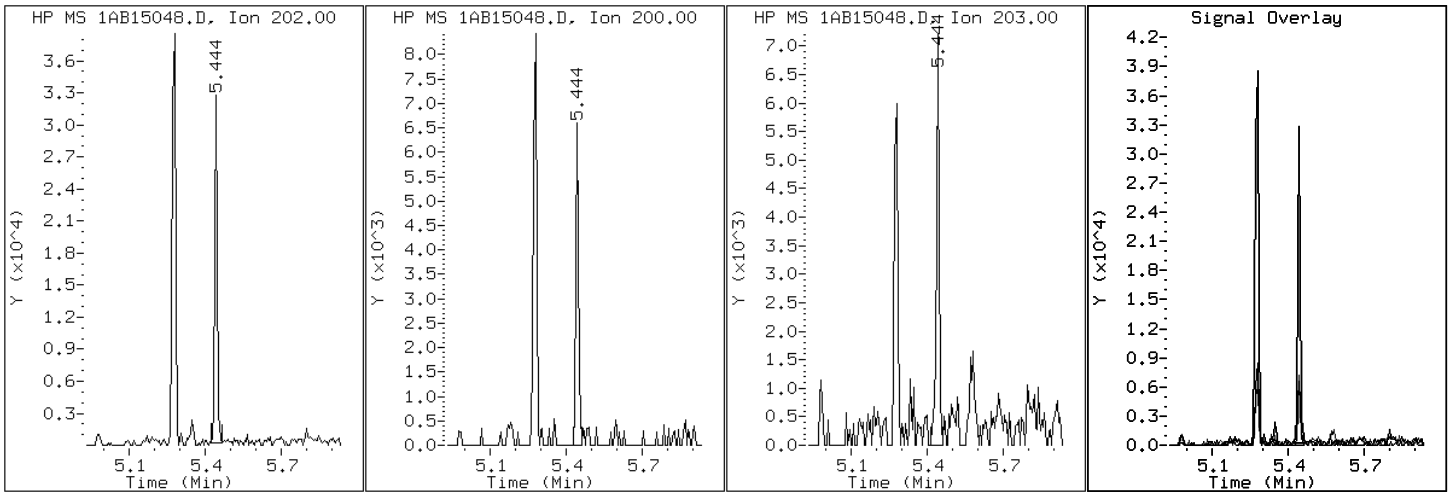
Data File: 1AB15048.D

Date: 16-FEB-2013 01:57

Client ID: CV0005Z-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-37-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15048.D
Inj. Date and Time: 16-FEB-2013 01:57
Instrument ID: BSMA5973.i
Client ID: CV0005Z-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

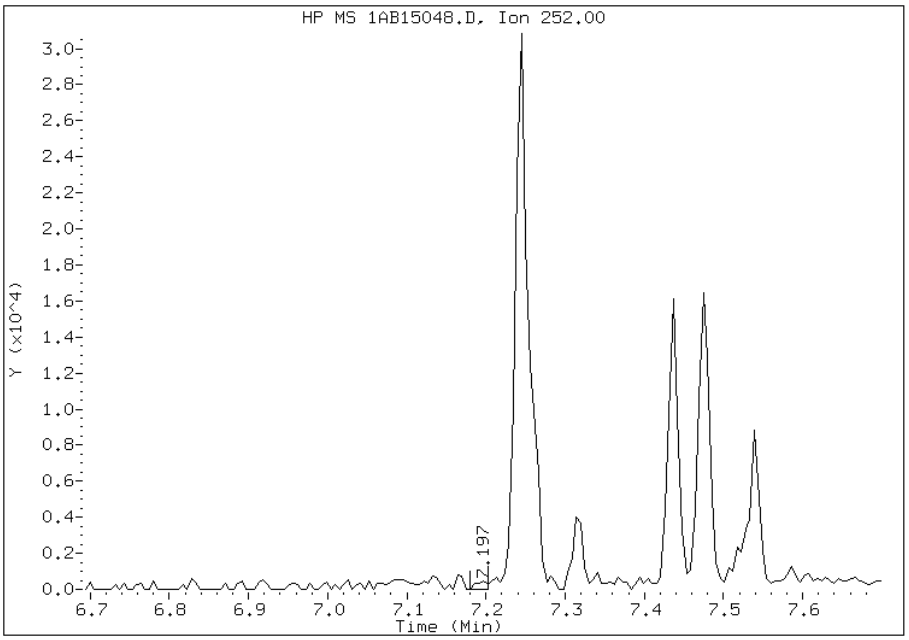
Processing Integration Results

RT: 7.20

Response: 464

Amount: 0

Conc: 6



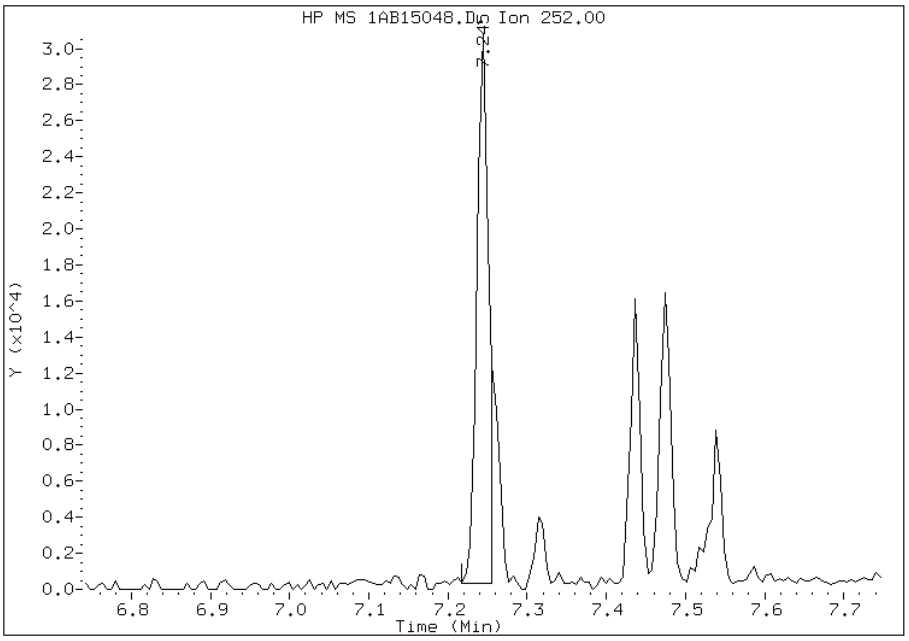
Manual Integration Results

RT: 7.24

Response: 30965

Amount: 1

Conc: 374



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:56
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15048.D
Inj. Date and Time: 16-FEB-2013 01:57
Instrument ID: BSMA5973.i
Client ID: CV0005Z-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

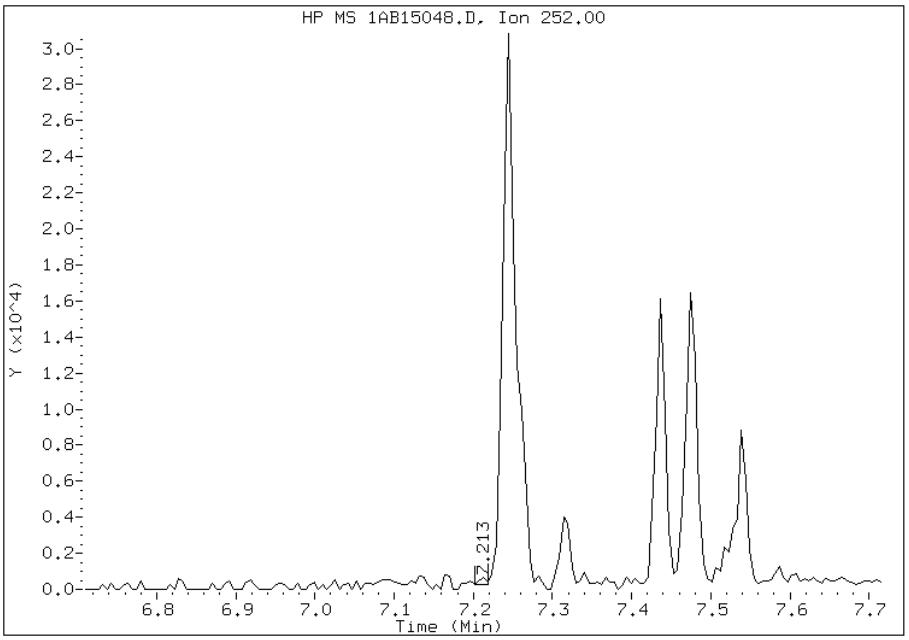
Processing Integration Results

RT: 7.21

Response: 223

Amount: 0

Conc: 3



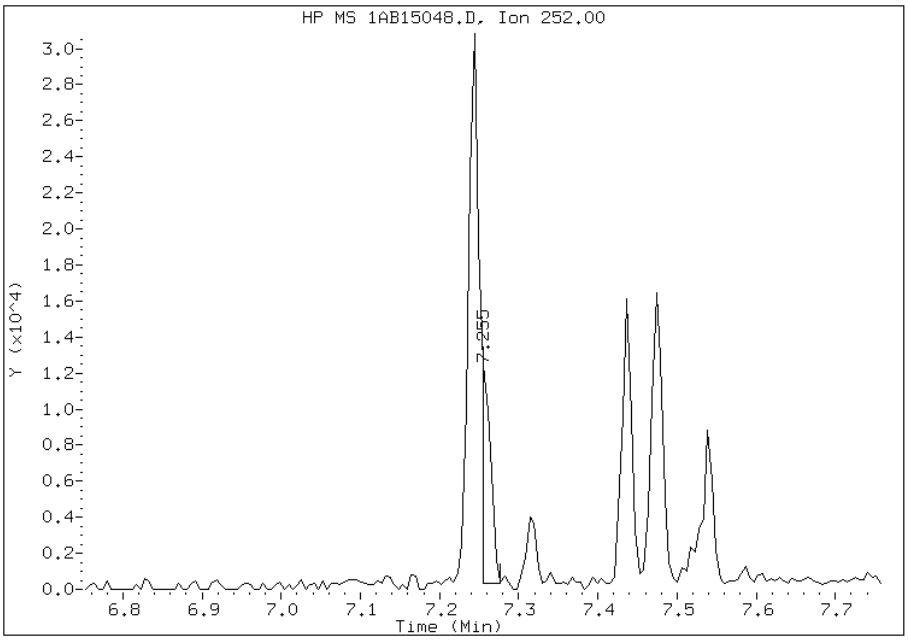
Manual Integration Results

RT: 7.26

Response: 9345

Amount: 0

Conc: 108



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:56
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15048.D
Inj. Date and Time: 16-FEB-2013 01:57
Instrument ID: BSMA5973.i
Client ID: CV0005Z-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

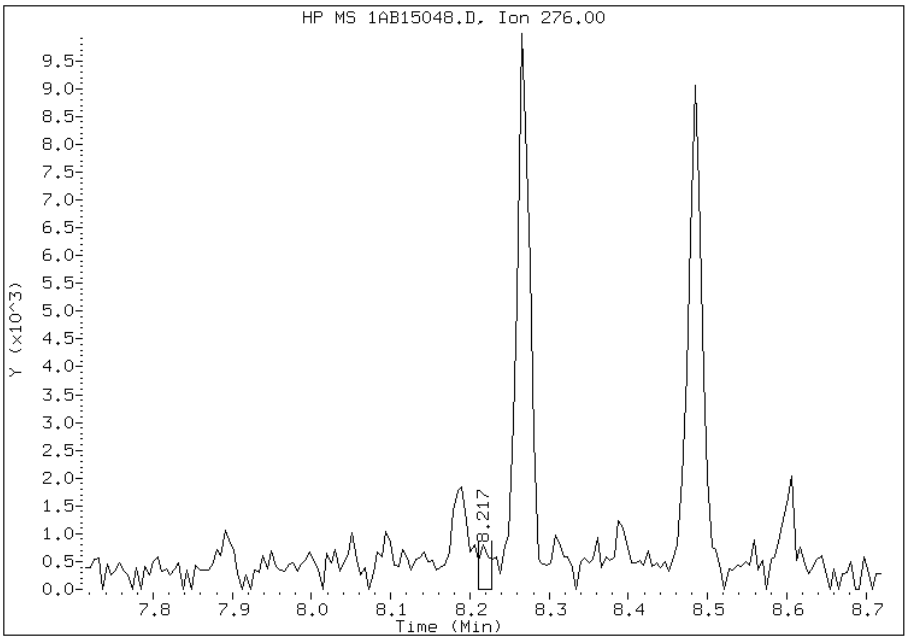
Processing Integration Results

RT: 8.22

Response: 781

Amount: 0

Conc: 13



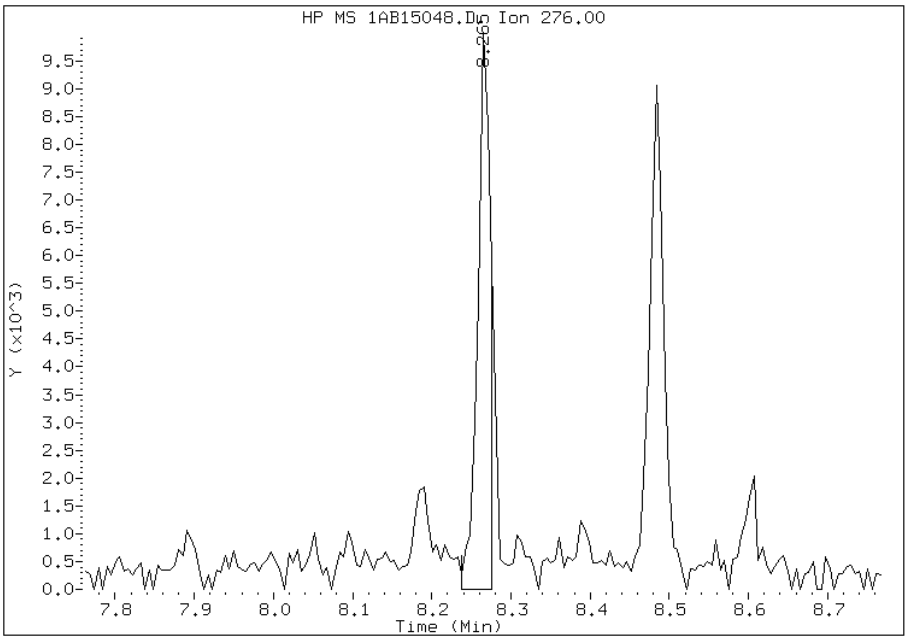
Manual Integration Results

RT: 8.26

Response: 11013

Amount: 1

Conc: 177



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:56
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005Z-CSD | Lab Sample ID: 680-87318-38

Matrix: Solid | Lab File ID: 1AB15049.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 15:12

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.12(g) | Date Analyzed: 02/16/2013 02:12

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

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

% Moisture: 25.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	530	U	530	110
208-96-8	Acenaphthylene	100	J	210	27
120-12-7	Anthracene	150		45	22
56-55-3	Benzo[a]anthracene	460		43	21
50-32-8	Benzo[a]pyrene	320		55	28
205-99-2	Benzo[b]fluoranthene	540		65	33
191-24-2	Benzo[g,h,i]perylene	250		110	23
207-08-9	Benzo[k]fluoranthene	240		43	19
218-01-9	Chrysene	430		48	24
53-70-3	Dibenz(a,h)anthracene	100	J	110	22
206-44-0	Fluoranthene	640		110	21
86-73-7	Fluorene	35	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	260		110	38
90-12-0	1-Methylnaphthalene	210		210	23
91-57-6	2-Methylnaphthalene	250		210	38
91-20-3	Naphthalene	180	J	210	23
85-01-8	Phenanthrene	450		43	21
129-00-0	Pyrene	430		110	20

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15049.D
Lab Smp Id: 680-87318-A-38-A Client Smp ID: CV0005Z-CSD
Inj Date : 16-FEB-2013 02:12
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-38-a
Misc Info : 680-87318-A-38-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 46
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	25.616	% 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	2.423	2.415	(1.000)	725763	40.0000	
* 6 Acenaphthene-d10	164	3.449	3.441	(1.000)	514407	40.0000	
* 10 Phenanthrene-d10	188	4.394	4.386	(1.000)	816887	40.0000	
$ 14 o-Terphenyl	230	4.672	4.664	(1.063)	23753	2.00113	711.7130
* 18 Chrysene-d12	240	6.424	6.411	(1.000)	732011	40.0000	
* 23 Perylene-d12	264	7.530	7.501	(1.000)	837564	40.0000	(H)
2 Naphthalene	128	2.434	2.426	(1.004)	8747	0.49654	176.5967
3 2-Methylnaphthalene	141	2.834	2.832	(1.170)	6729	0.71303	253.5921
4 1-Methylnaphthalene	142	2.893	2.885	(1.194)	6375	0.59675	212.2369
5 Acenaphthylene	152	3.363	3.355	(0.975)	6594	0.29031	103.2501
9 Fluorene	166	3.775	3.772	(1.094)	1536	0.09936	35.3396
11 Phenanthrene	178	4.410	4.402	(1.004)	28429	1.27459	453.3138
12 Anthracene	178	4.442	4.434	(1.011)	9669	0.42518	151.2190
13 Carbazole	167	4.603	4.589	(1.047)	3931	0.20166	71.7218

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.276	5.262	(1.201)	39702	1.79537	638.5339
16 Pyrene	202	5.441	5.433	(0.847)	31851	1.20481	428.4973
17 Benzo(a)anthracene	228	6.419	6.395	(0.999)	27999	1.28102	455.6012
19 Chrysene	228	6.440	6.427	(1.002)	25689	1.20581	428.8532
20 Benzo(b)fluoranthene	252	7.242	7.217	(0.962)	35584	1.52221	541.3812(MH)
21 Benzo(k)fluoranthene	252	7.252	7.239	(0.963)	16543	0.67685	240.7270(MH)
22 Benzo(a)pyrene	252	7.471	7.452	(0.992)	20245	0.91199	324.3537(H)
24 Indeno(1,2,3-cd)pyrene	276	8.267	8.238	(1.098)	12707	0.72492	257.8226(MH)
25 Dibenzo(a,h)anthracene	278	8.283	8.254	(1.100)	5002	0.28544	101.5191(H)
26 Benzo(g,h,i)perylene	276	8.486	8.446	(1.127)	13013	0.71658	254.8571(H)

QC Flag Legend

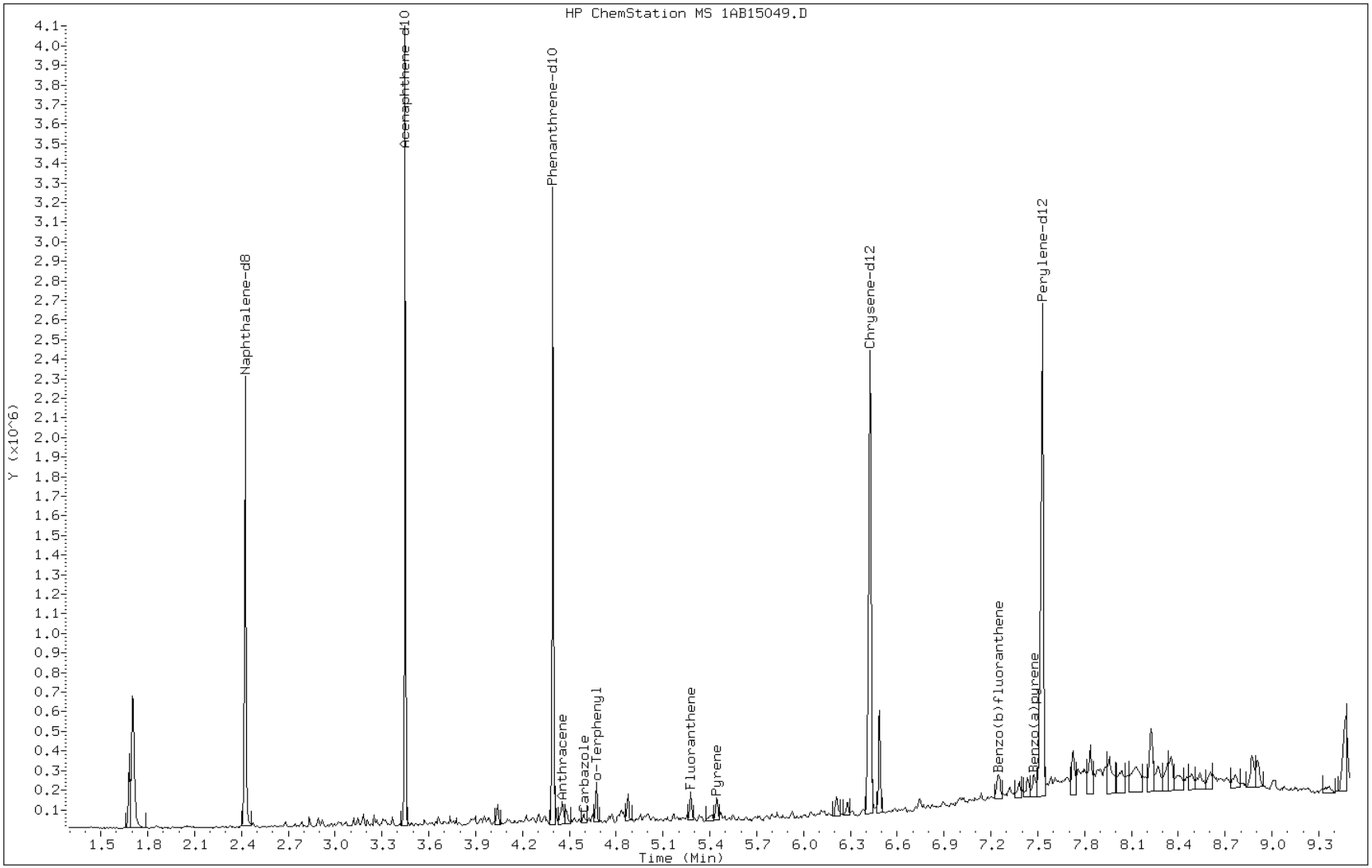
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD | Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a | Operator: SCC



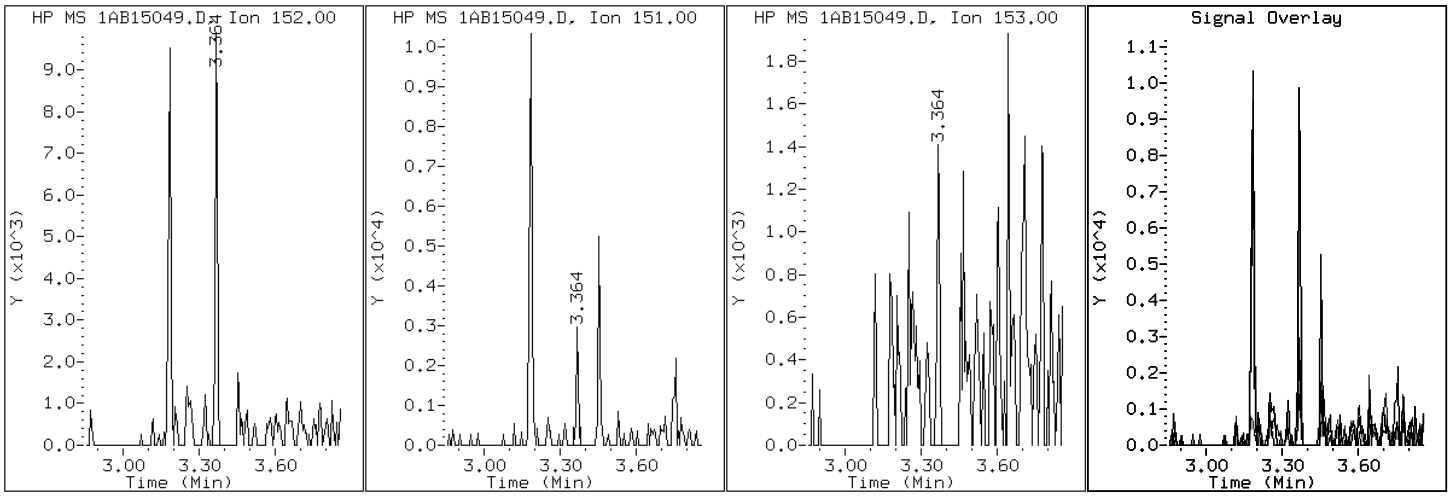
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

5 Acenaphthylene



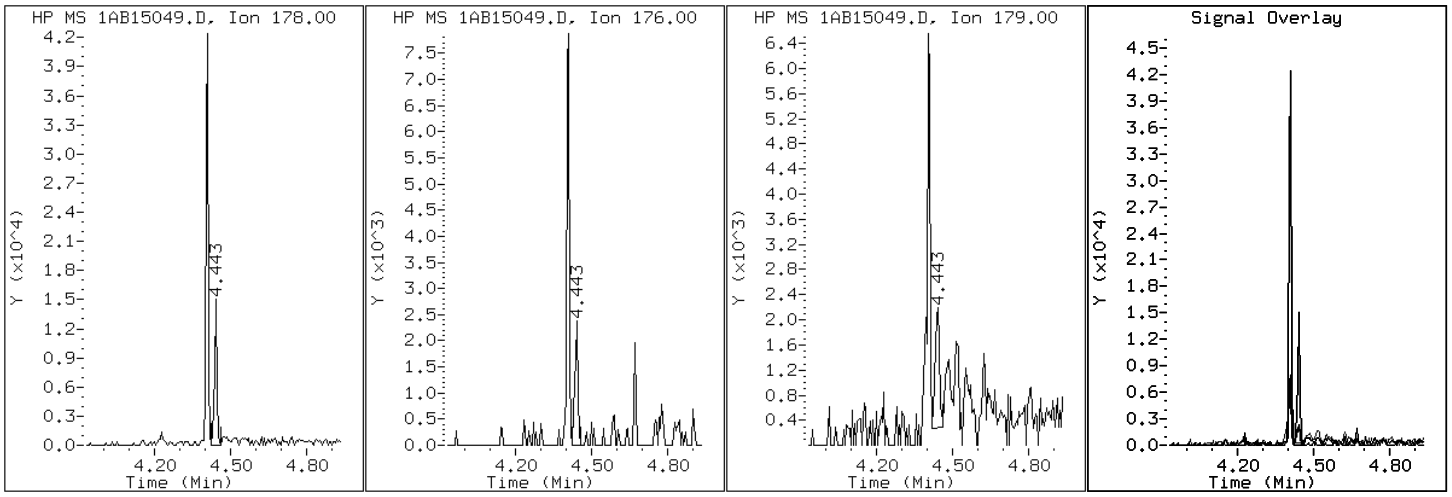
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

12 Anthracene



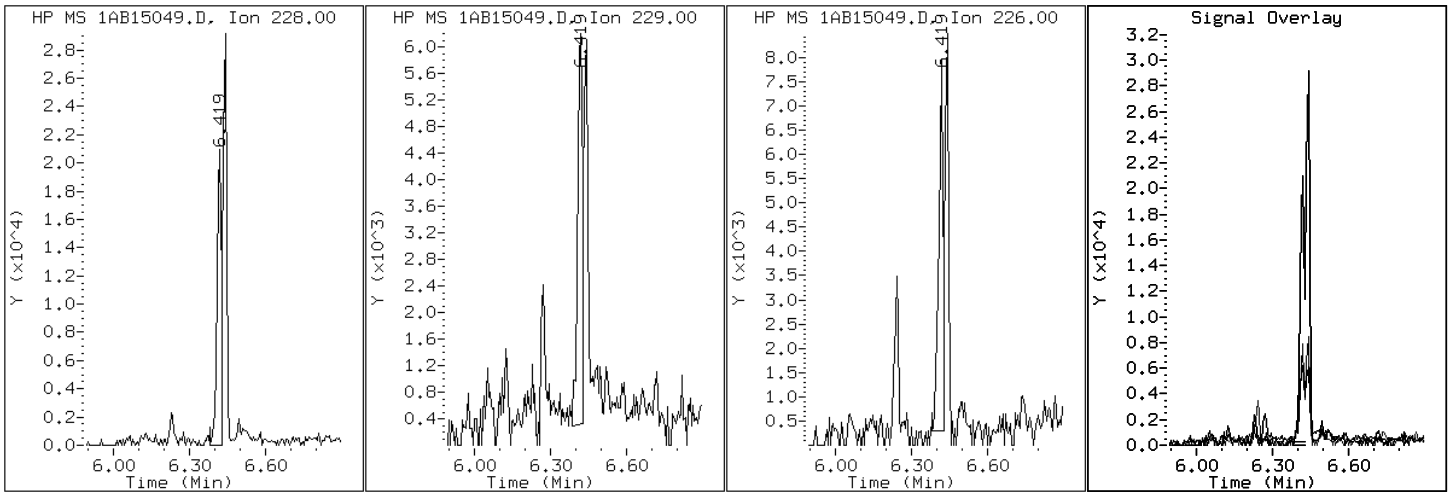
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

17 Benzo(a)anthracene



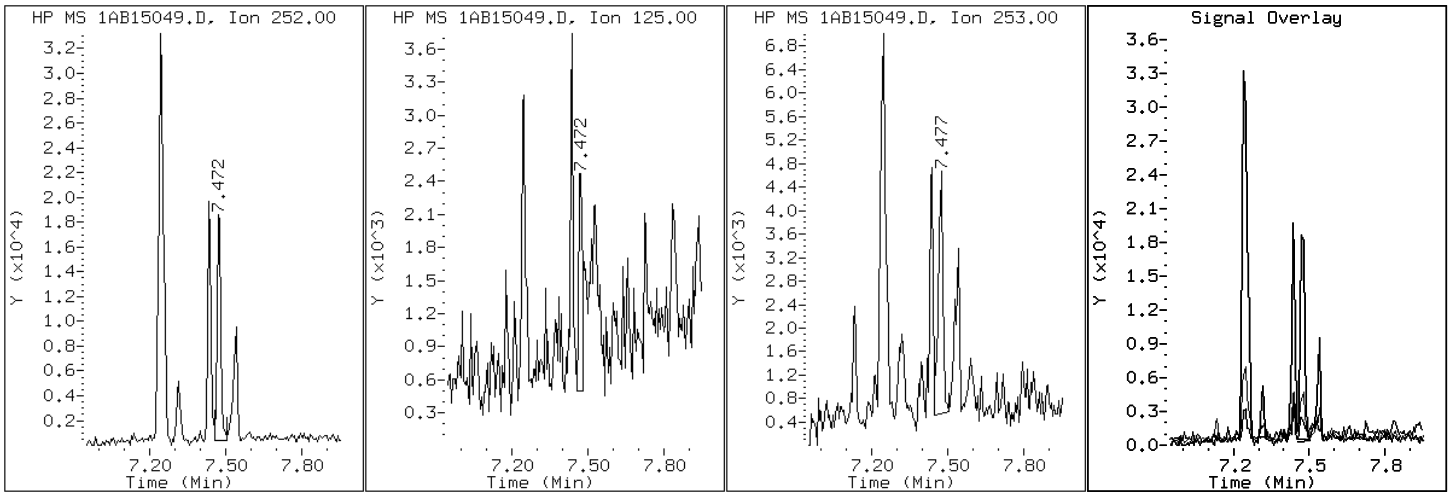
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

22 Benzo(a)pyrene



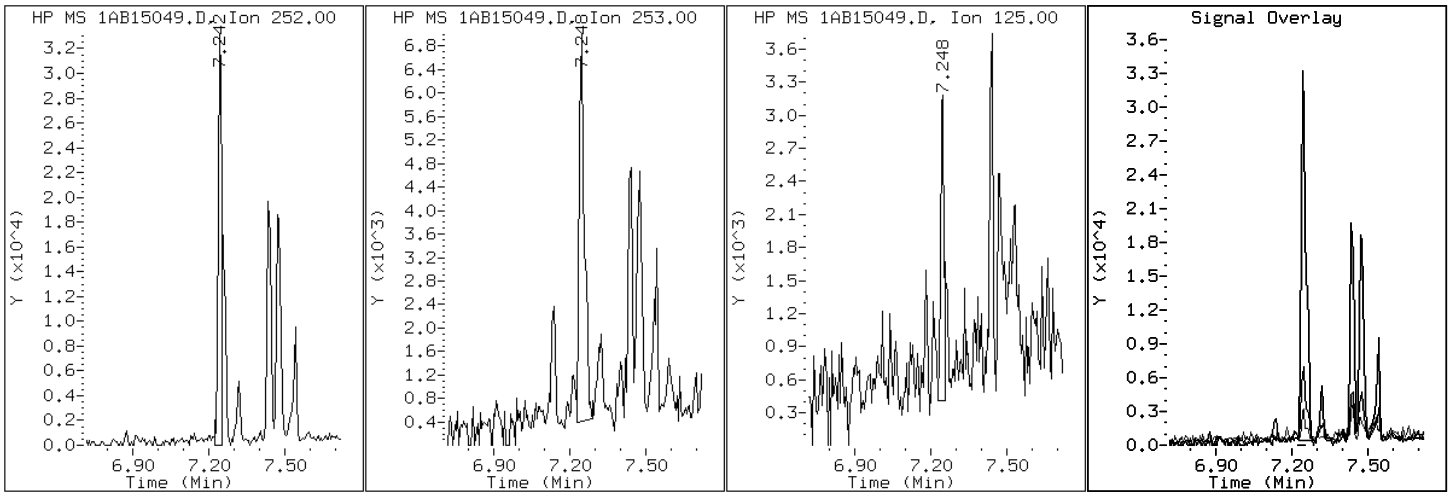
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

20 Benzo(b)fluoranthene



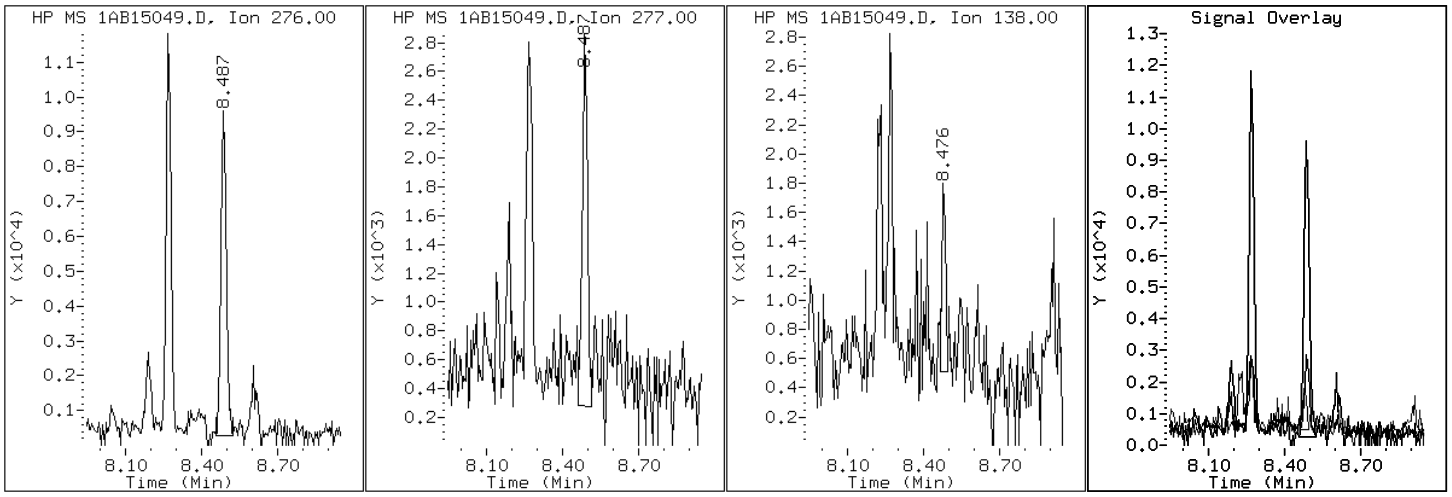
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

26 Benzo(g,h,i)perylene



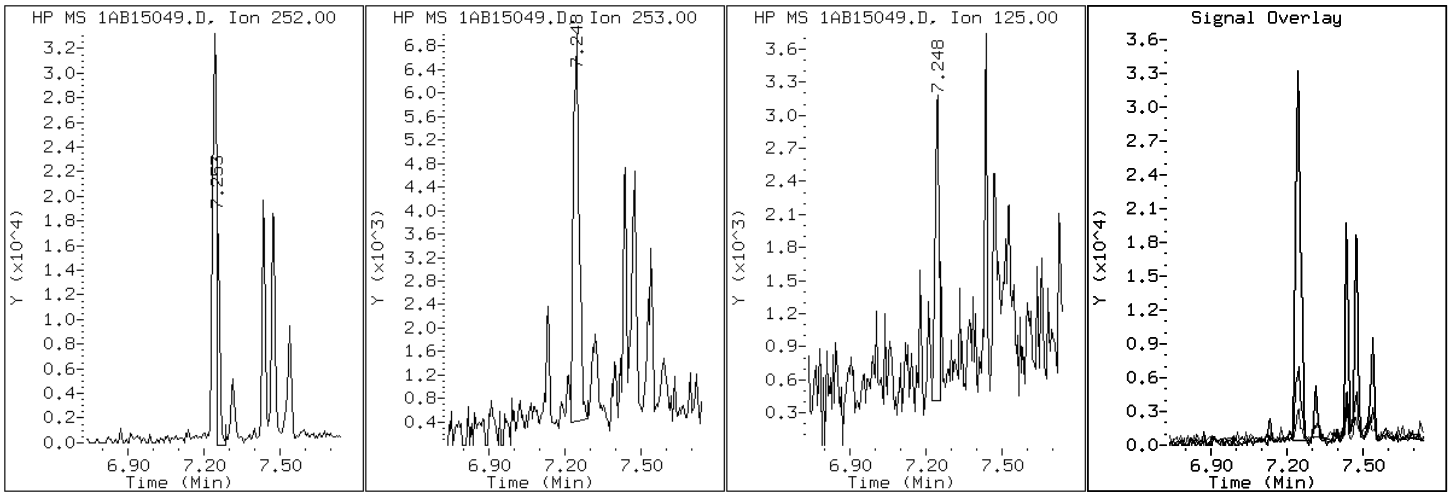
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

21 Benzo(k)fluoranthene



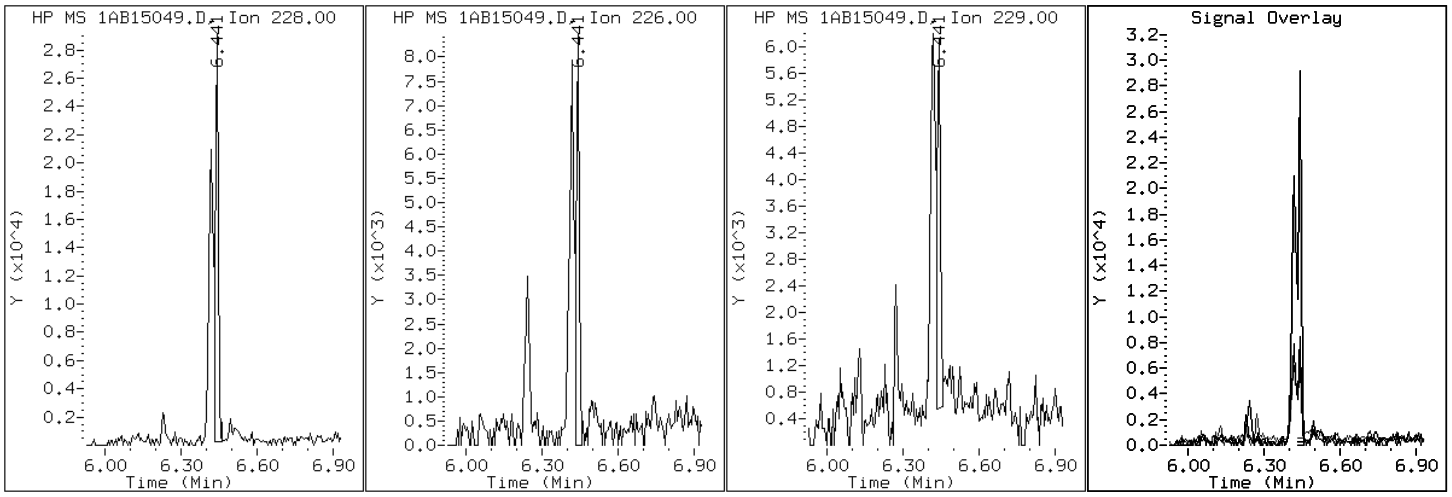
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

19 Chrysene



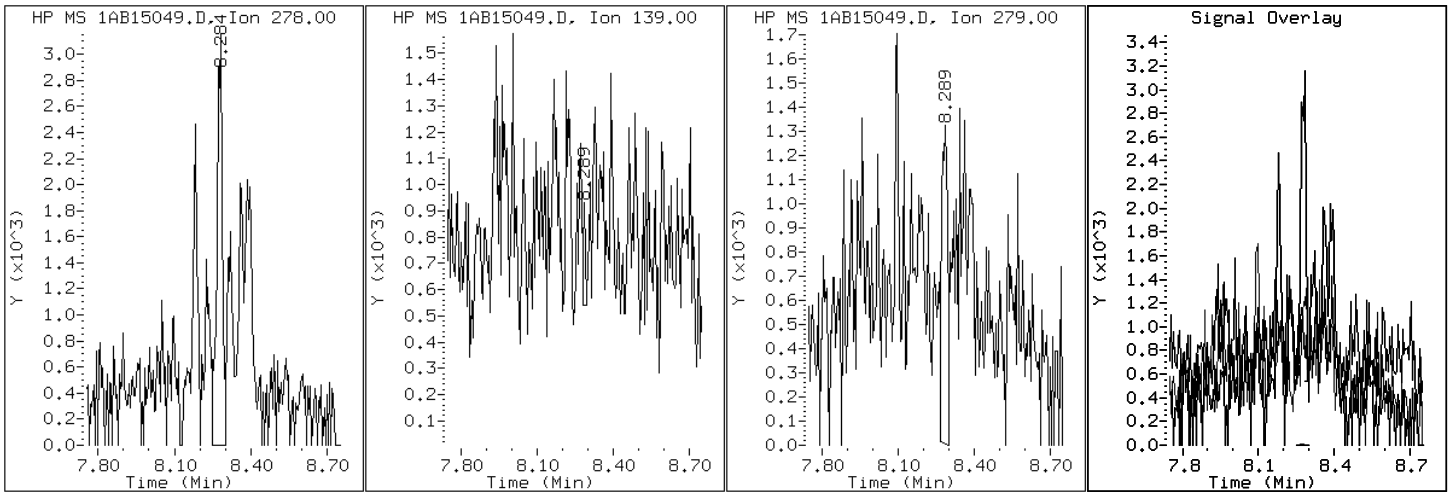
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

25 Dibenzo(a,h)anthracene



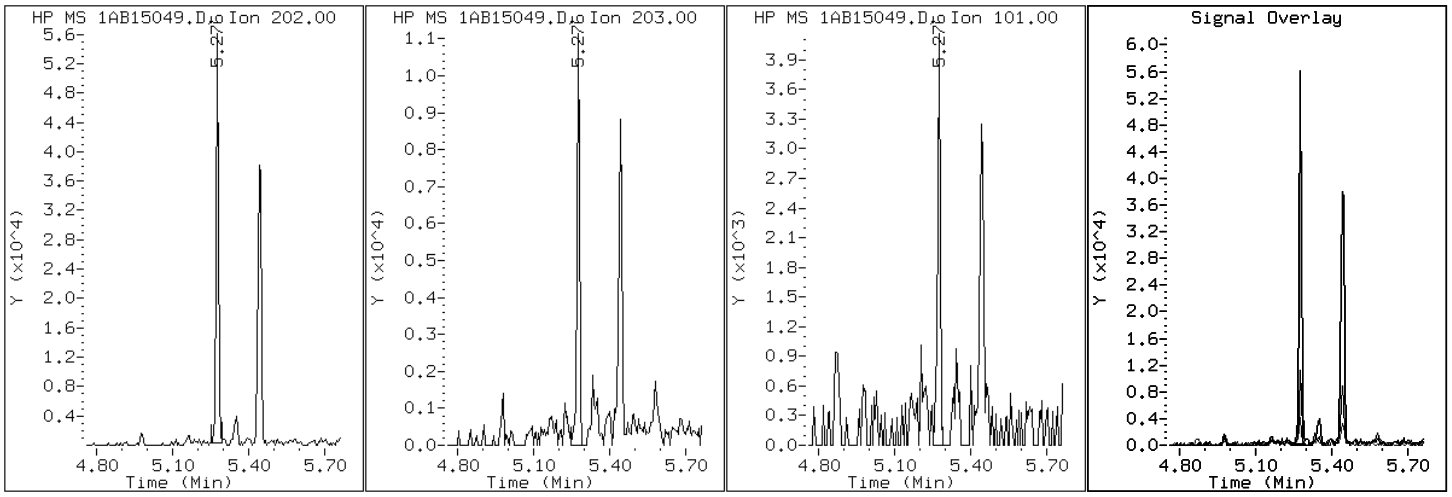
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

15 Fluoranthene



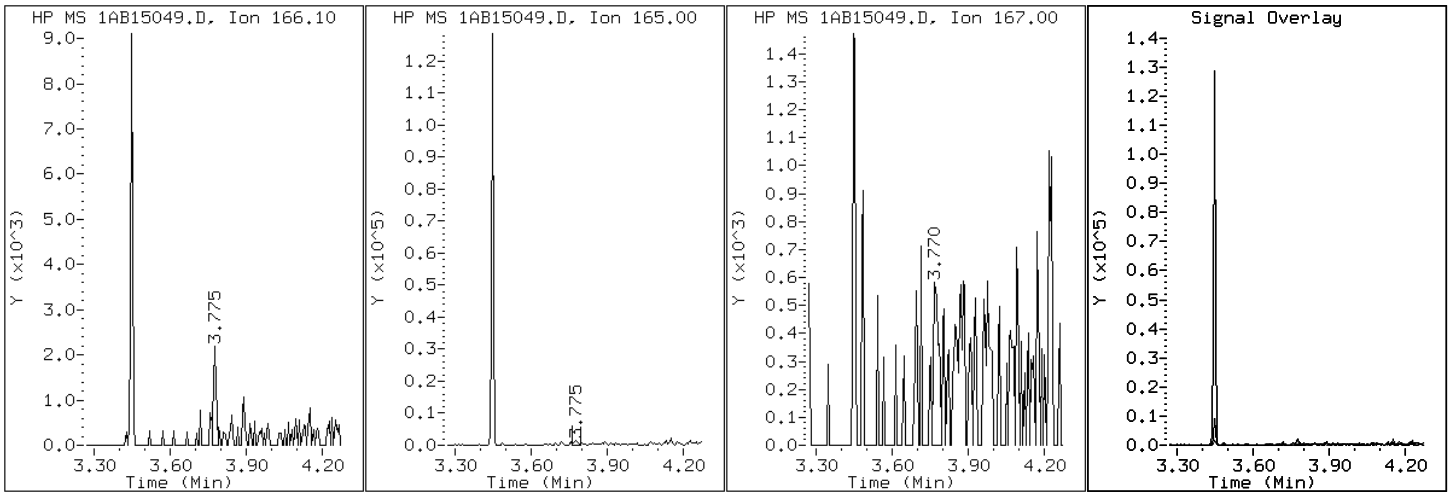
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

9 Fluorene



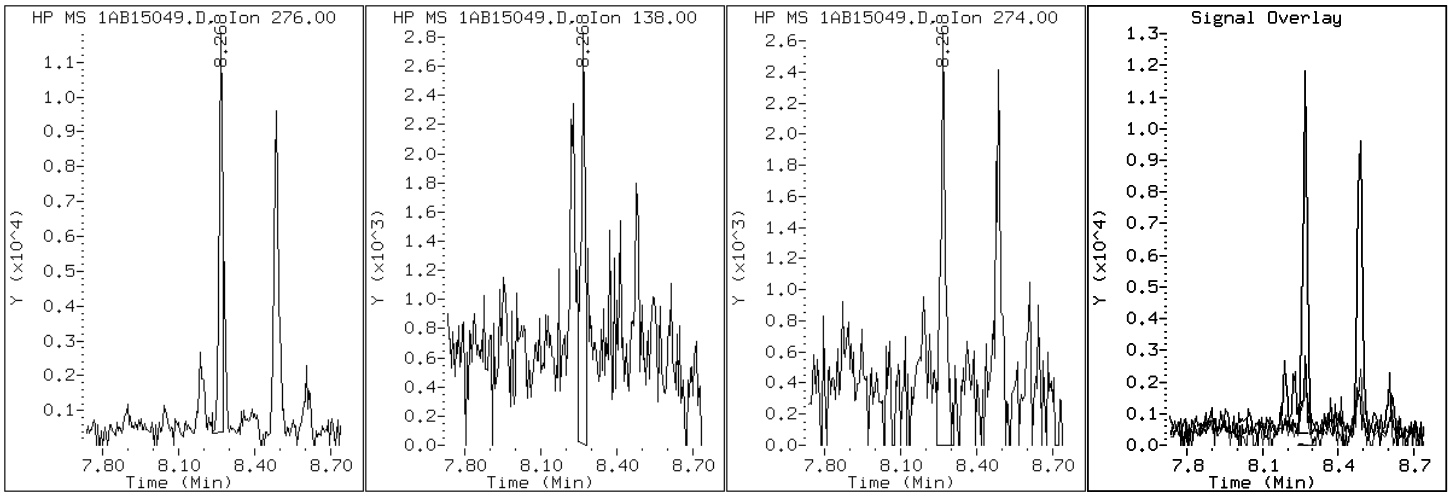
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

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



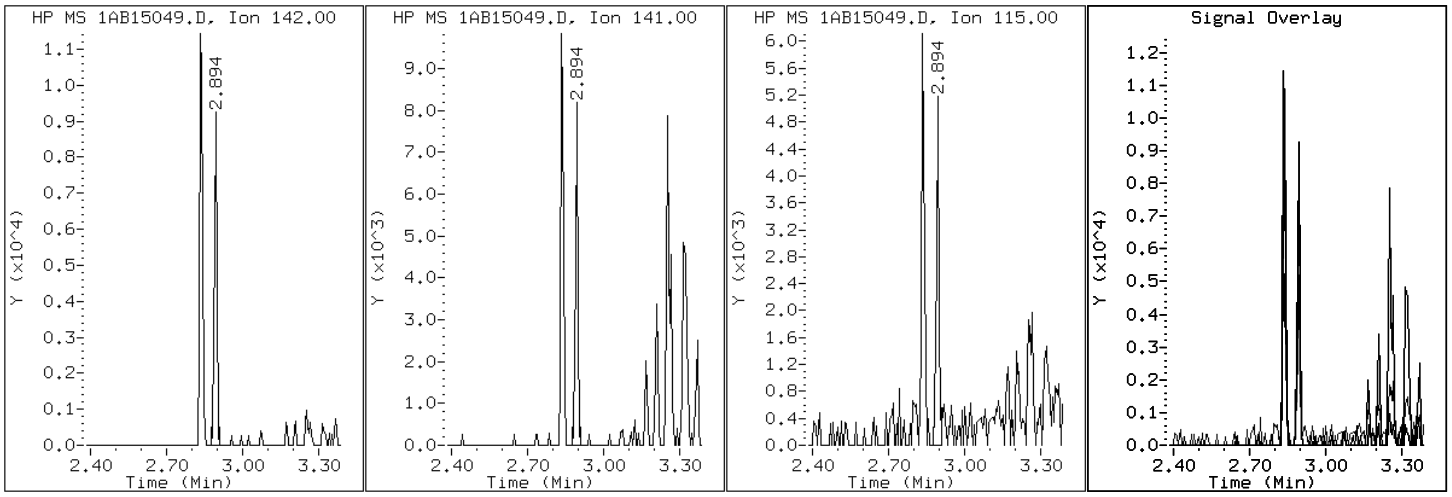
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

4 1-Methylnaphthalene



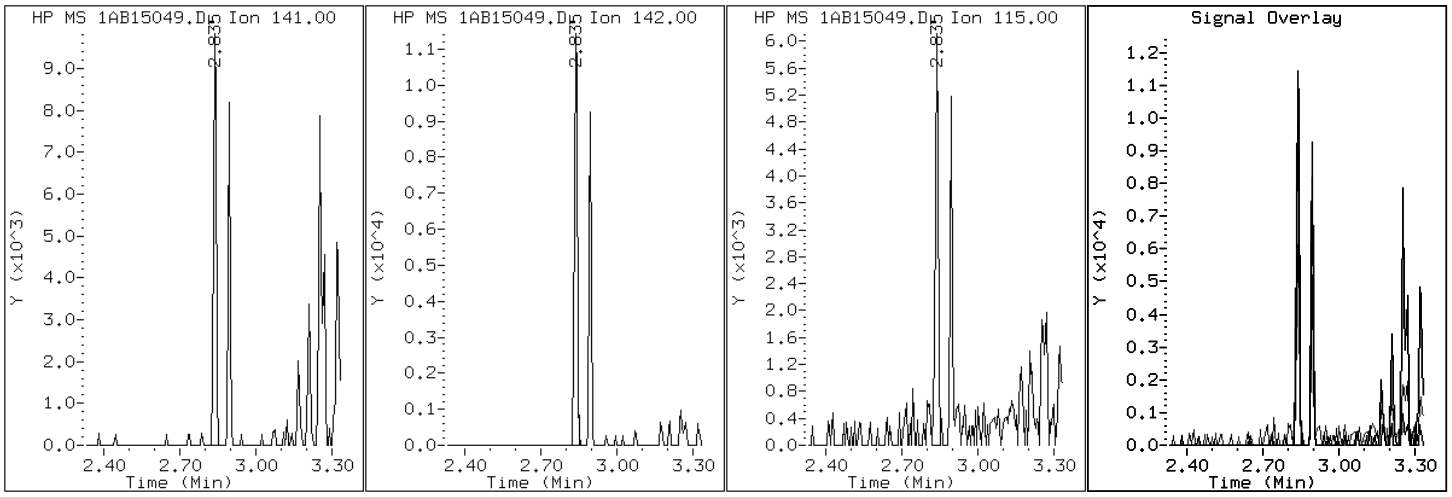
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

3 2-Methylnaphthalene



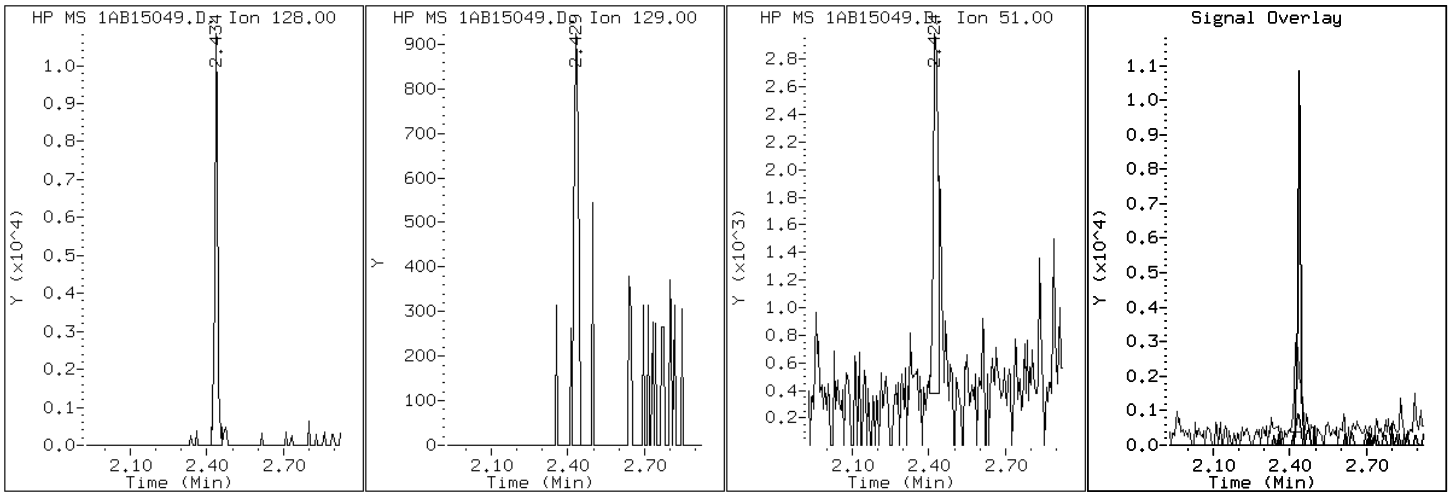
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

2 Naphthalene



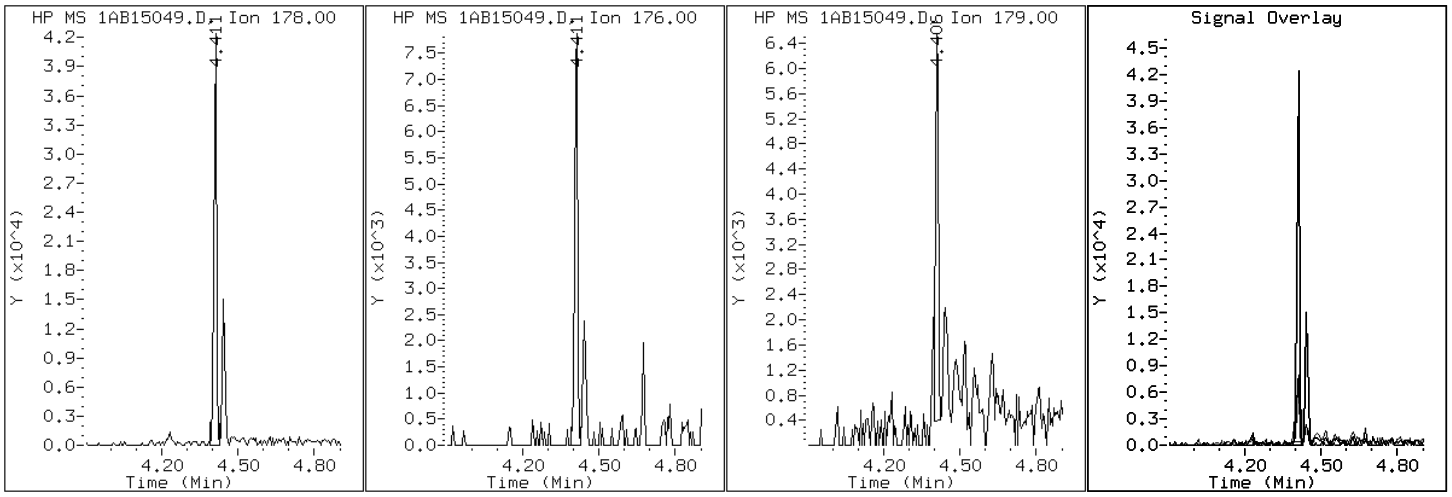
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

11 Phenanthrene



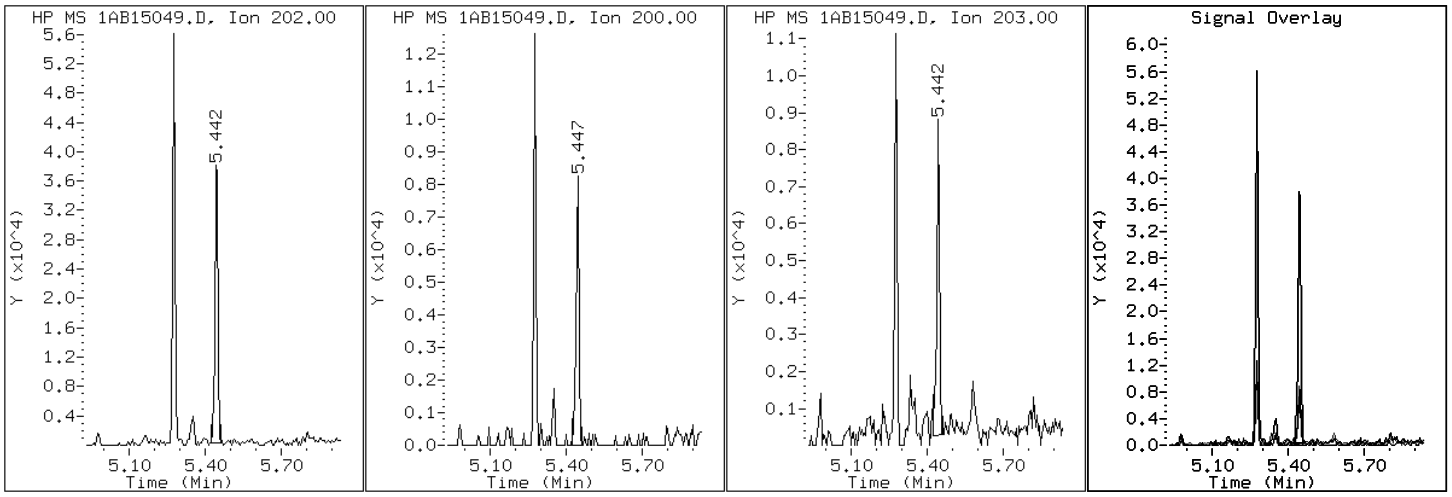
Data File: 1AB15049.D

Date: 16-FEB-2013 02:12

Client ID: CV0005Z-CSD Instrument: BSMA5973.i

Sample Info: 680-87318-a-38-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15049.D
Inj. Date and Time: 16-FEB-2013 02:12
Instrument ID: BSMA5973.i
Client ID: CV0005Z-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

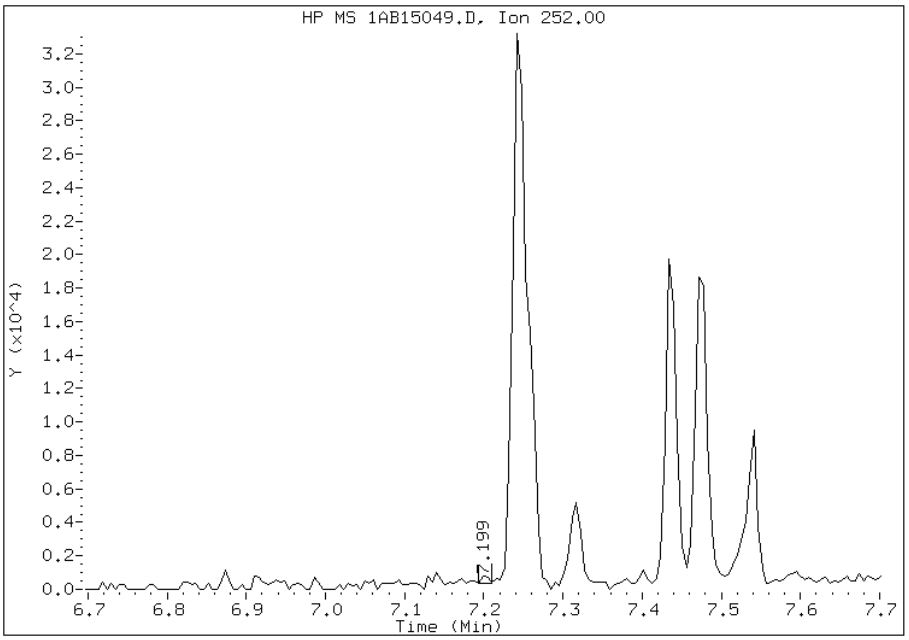
Processing Integration Results

RT: 7.20

Response: 281

Amount: 0

Conc: 4



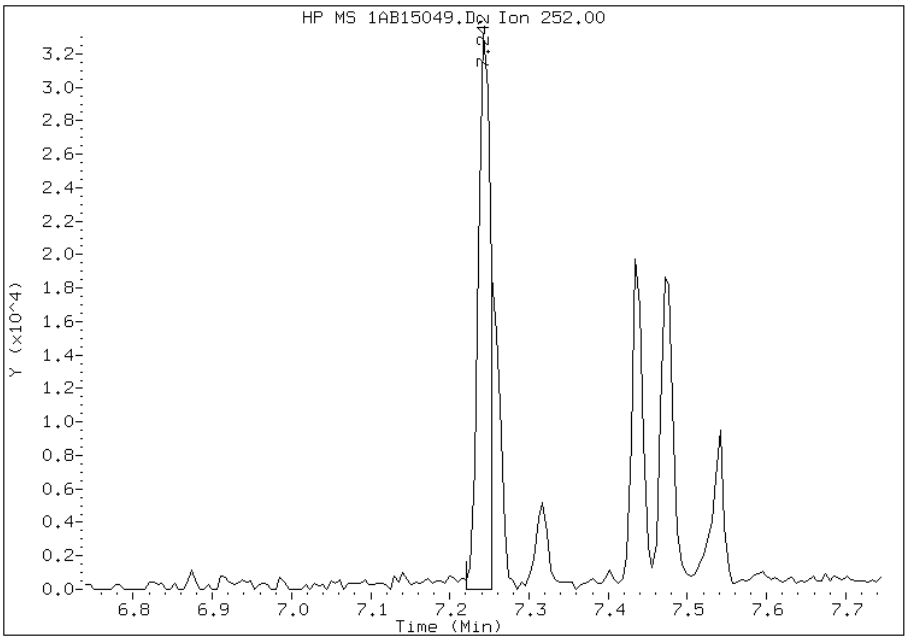
Manual Integration Results

RT: 7.24

Response: 35584

Amount: 2

Conc: 541



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:58
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15049.D
Inj. Date and Time: 16-FEB-2013 02:12
Instrument ID: BSMA5973.i
Client ID: CV0005Z-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

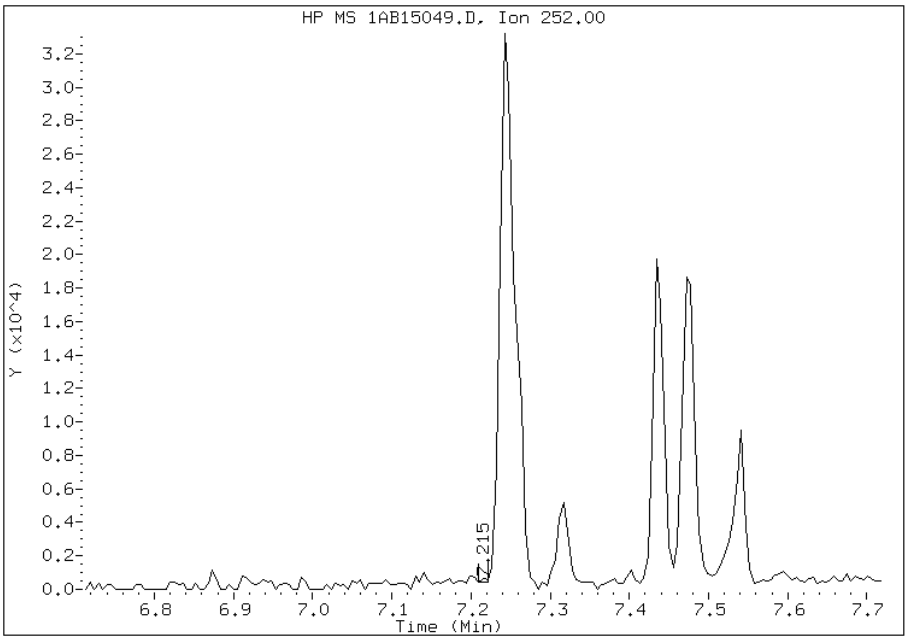
Processing Integration Results

RT: 7.22

Response: 103

Amount: 0

Conc: 1



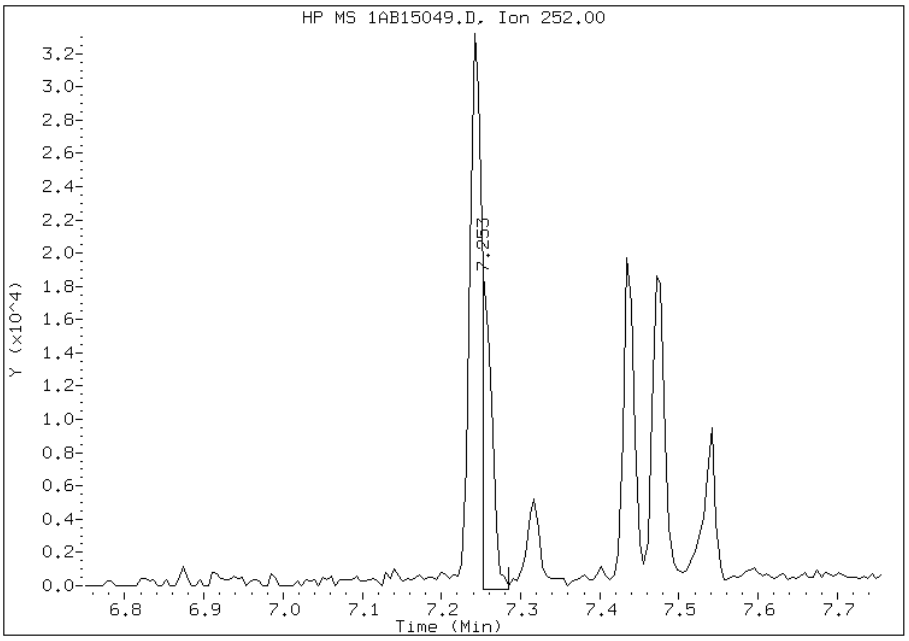
Manual Integration Results

RT: 7.25

Response: 16543

Amount: 1

Conc: 241



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:58
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15049.D
Inj. Date and Time: 16-FEB-2013 02:12
Instrument ID: BSMA5973.i
Client ID: CV0005Z-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

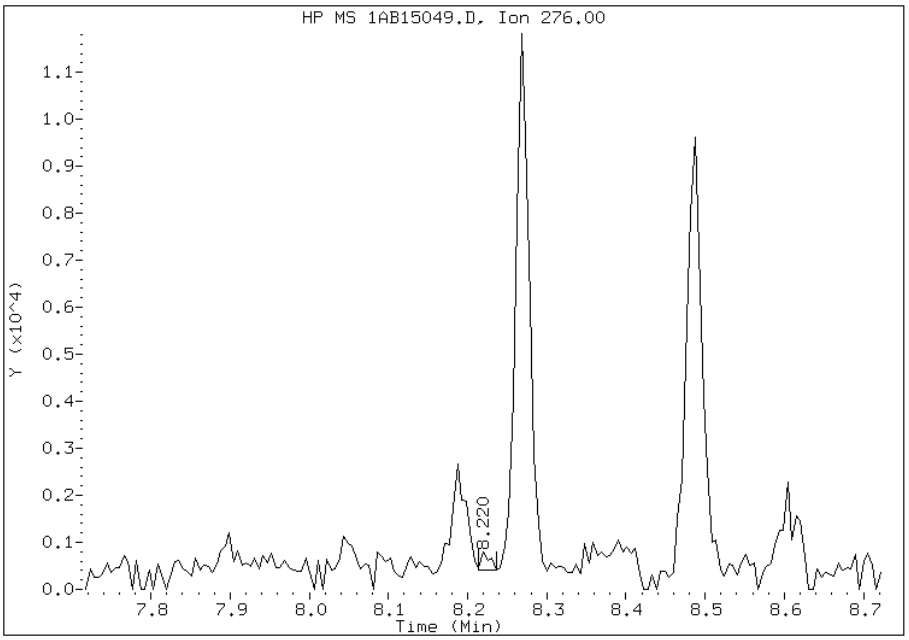
Processing Integration Results

RT: 8.22

Response: 295

Amount: 0

Conc: 6



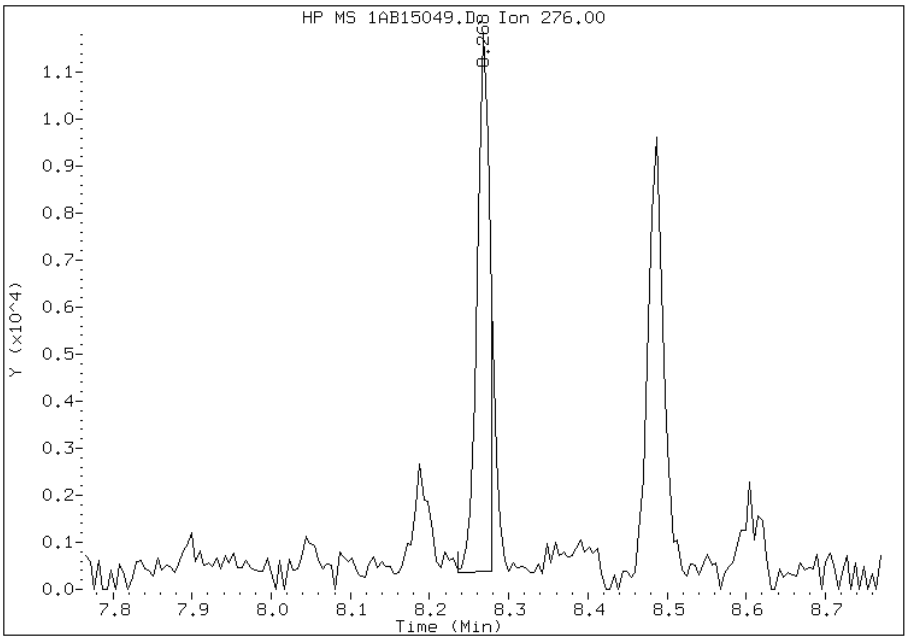
Manual Integration Results

RT: 8.27

Response: 12707

Amount: 1

Conc: 258



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005AA-CS | Lab Sample ID: 680-87318-39

Matrix: Solid | Lab File ID: 1AB15050.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 15:35

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.09(g) | Date Analyzed: 02/16/2013 02:27

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

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

% Moisture: 6.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430	U	430	85
208-96-8	Acenaphthylene	100	J	170	21
120-12-7	Anthracene	140		36	18
56-55-3	Benzo[a]anthracene	370		34	17
50-32-8	Benzo[a]pyrene	260		44	22
205-99-2	Benzo[b]fluoranthene	420		52	26
191-24-2	Benzo[g,h,i]perylene	220		85	19
207-08-9	Benzo[k]fluoranthene	220		34	15
218-01-9	Chrysene	320		38	19
53-70-3	Dibenz(a,h)anthracene	79	J	85	18
206-44-0	Fluoranthene	600		85	17
86-73-7	Fluorene	24	J	85	18
193-39-5	Indeno[1,2,3-cd]pyrene	170		85	30
90-12-0	1-Methylnaphthalene	120	J	170	19
91-57-6	2-Methylnaphthalene	140	J	170	30
91-20-3	Naphthalene	130	J	170	19
85-01-8	Phenanthrene	300		34	17
129-00-0	Pyrene	370		85	16

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15050.D
Lab Smp Id: 680-87318-A-39-A Client Smp ID: CV0005AA-CS
Inj Date : 16-FEB-2013 02:27
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-39-a
Misc Info : 680-87318-A-39-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 47
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	6.929	% 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	2.426	2.415	(1.000)	714567	40.0000	
* 6 Acenaphthene-d10	164	3.452	3.441	(1.000)	525834	40.0000	
* 10 Phenanthrene-d10	188	4.397	4.386	(1.000)	840091	40.0000	
$ 14 o-Terphenyl	230	4.670	4.664	(1.062)	19527	1.59966	455.5995
* 18 Chrysene-d12	240	6.427	6.411	(1.000)	800696	40.0000	
* 23 Perylene-d12	264	7.533	7.501	(1.000)	816566	40.0000	(H)
2 Naphthalene	128	2.437	2.426	(1.004)	7780	0.44856	127.7558
3 2-Methylnaphthalene	141	2.837	2.832	(1.170)	4591	0.49410	140.7246
4 1-Methylnaphthalene	142	2.896	2.885	(1.194)	4596	0.43696	124.4509
5 Acenaphthylene	152	3.366	3.355	(0.975)	8351	0.35967	102.4387
9 Fluorene	166	3.777	3.772	(1.094)	1356	0.08581	24.4407(Q)
11 Phenanthrene	178	4.408	4.402	(1.002)	24072	1.04943	298.8896
12 Anthracene	178	4.445	4.434	(1.011)	11553	0.49400	140.6957
13 Carbazole	167	4.600	4.589	(1.046)	3749	0.18701	53.2629

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.279	5.262	(1.200)	48078	2.11409	602.1148
16 Pyrene	202	5.450	5.433	(0.848)	37896	1.31050	373.2450
17 Benzo(a)anthracene	228	6.422	6.395	(0.999)	31116	1.30151	370.6821
19 Chrysene	228	6.443	6.427	(1.002)	26027	1.11688	318.0982
20 Benzo(b)fluoranthene	252	7.244	7.217	(0.962)	33458	1.46806	418.1198(MH)
21 Benzo(k)fluoranthene	252	7.250	7.239	(0.962)	18641	0.78231	222.8087(MH)
22 Benzo(a)pyrene	252	7.474	7.452	(0.992)	19952	0.92190	262.5668(H)
24 Indeno(1,2,3-cd)pyrene	276	8.270	8.238	(1.098)	10131	0.59283	168.8428(MH)
25 Dibenzo(a,h)anthracene	278	8.281	8.254	(1.099)	4744	0.27768	79.0862(H)
26 Benzo(g,h,i)perylene	276	8.484	8.446	(1.126)	13744	0.77630	221.0980(H)

QC Flag Legend

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

Data File: 1AB15050.D

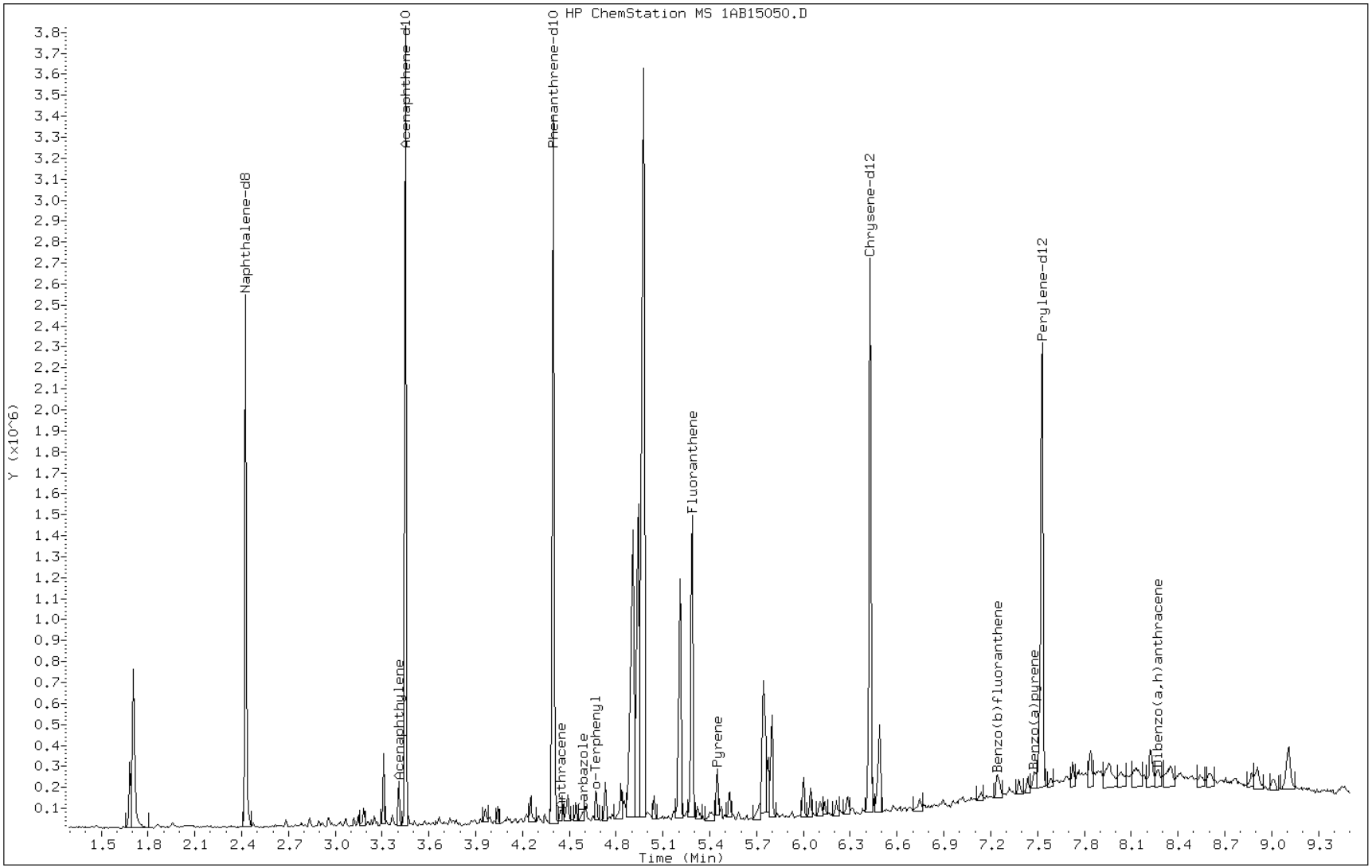
Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a

Operator: SCC



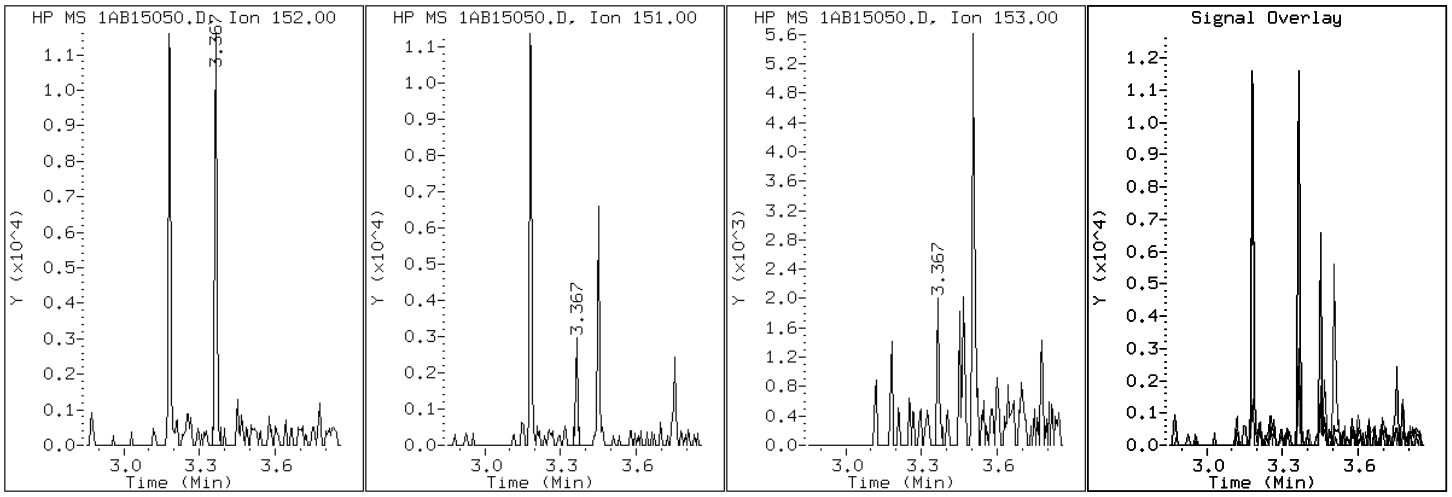
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

5 Acenaphthylene



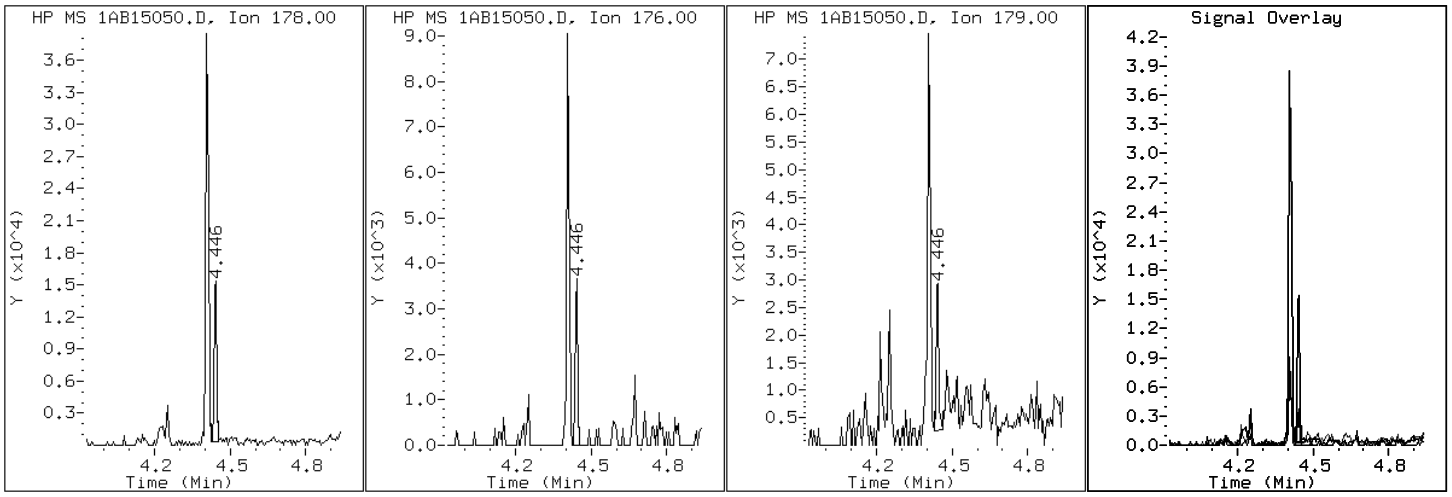
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

12 Anthracene



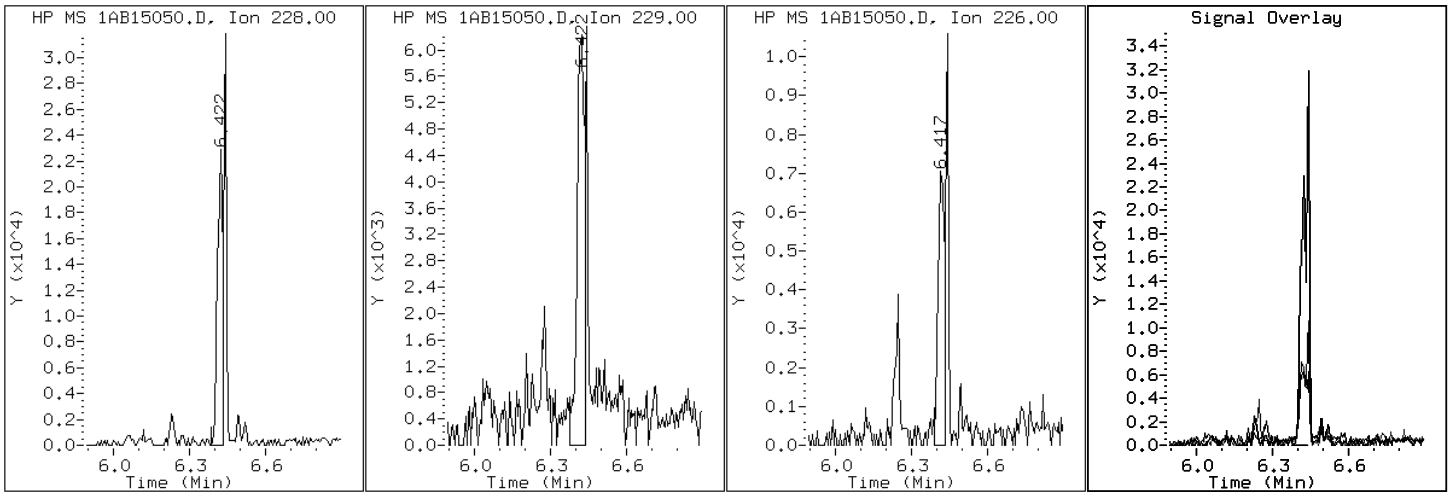
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

17 Benzo(a)anthracene



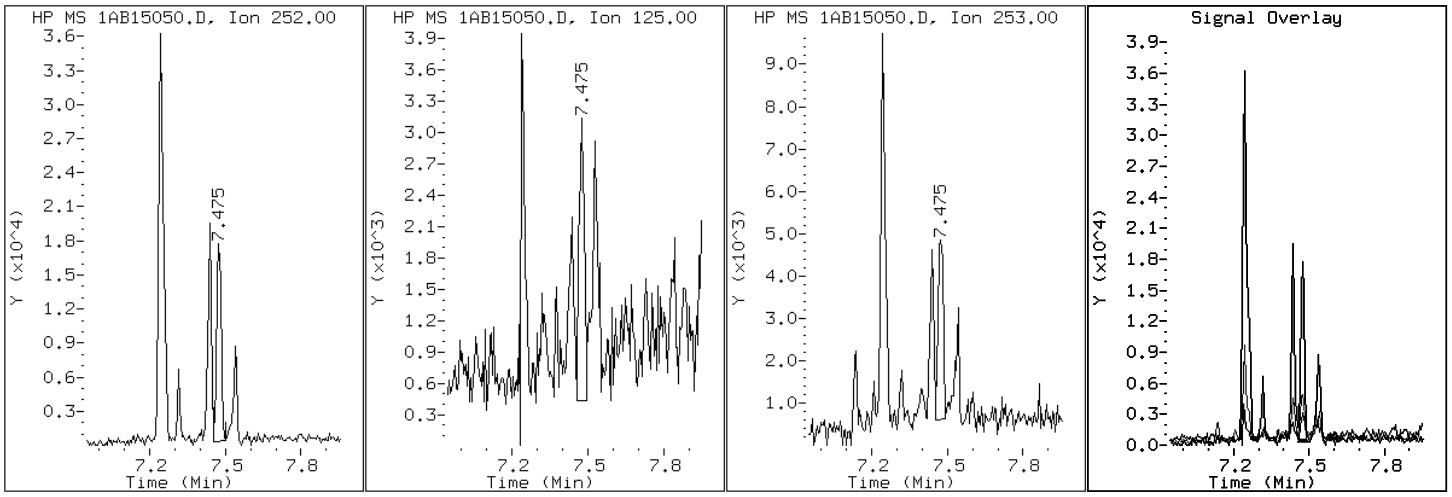
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

22 Benzo(a)pyrene



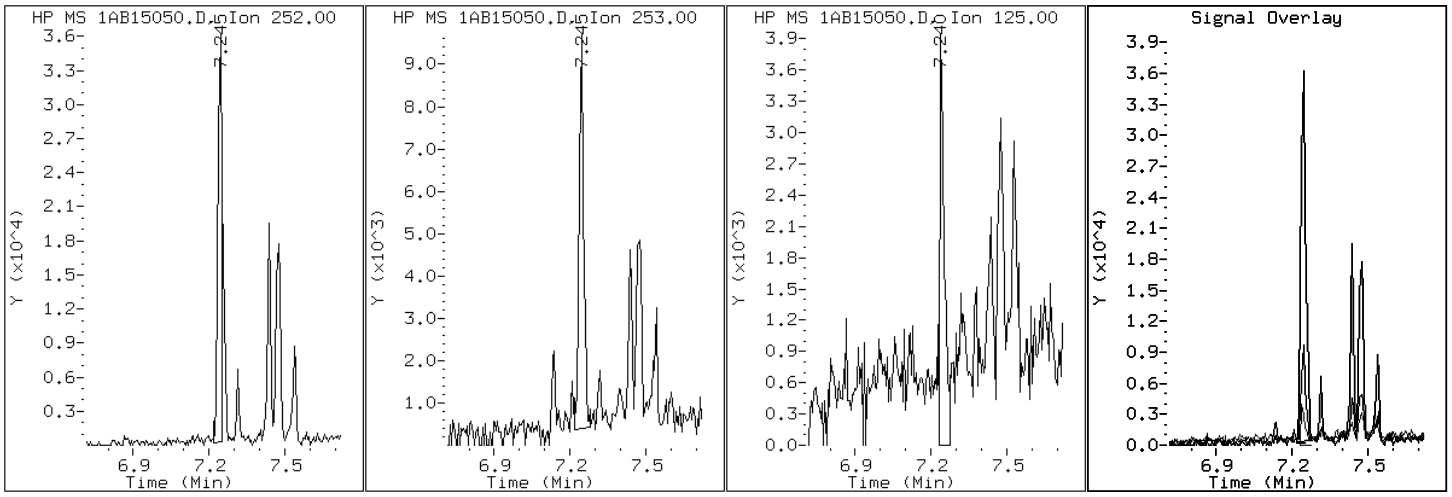
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

20 Benzo(b)fluoranthene



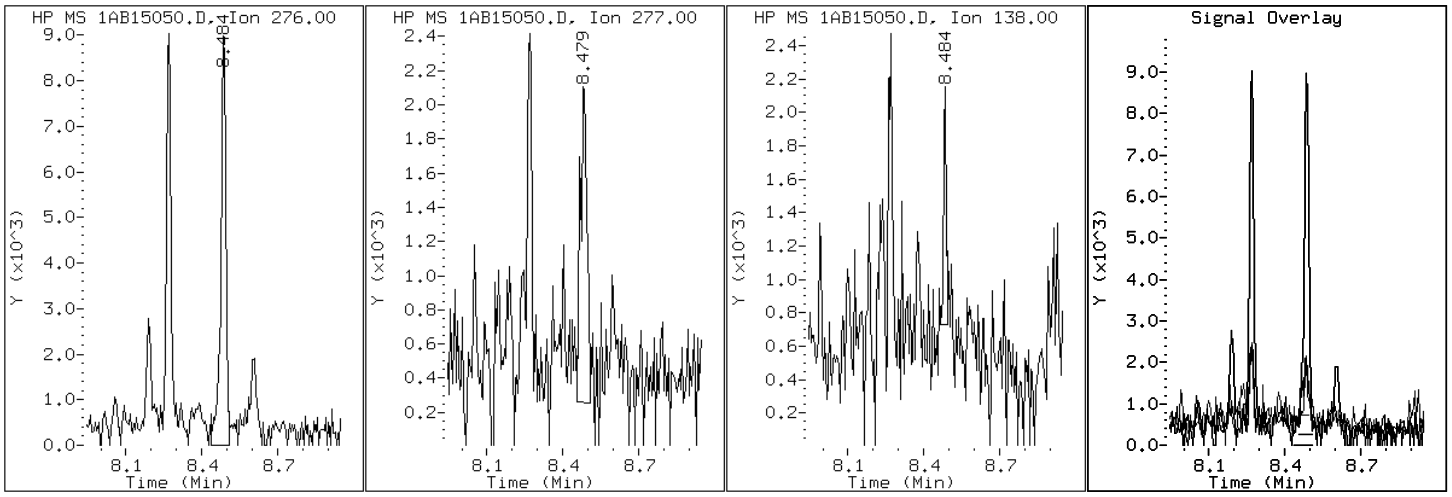
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

26 Benzo(g,h,i)perylene



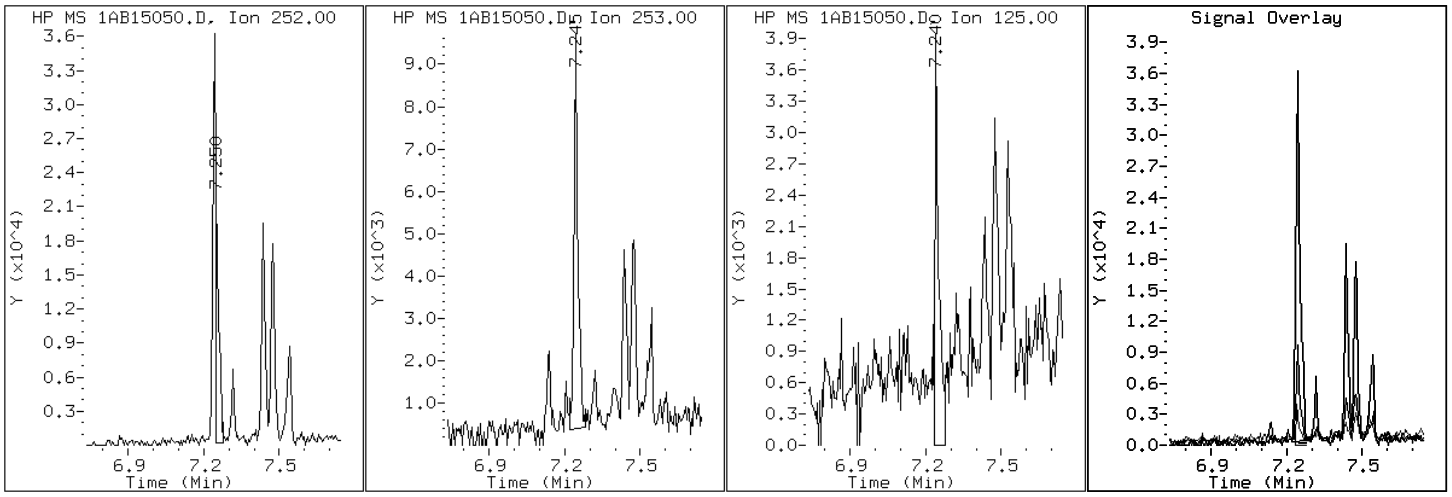
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

21 Benzo(k)fluoranthene



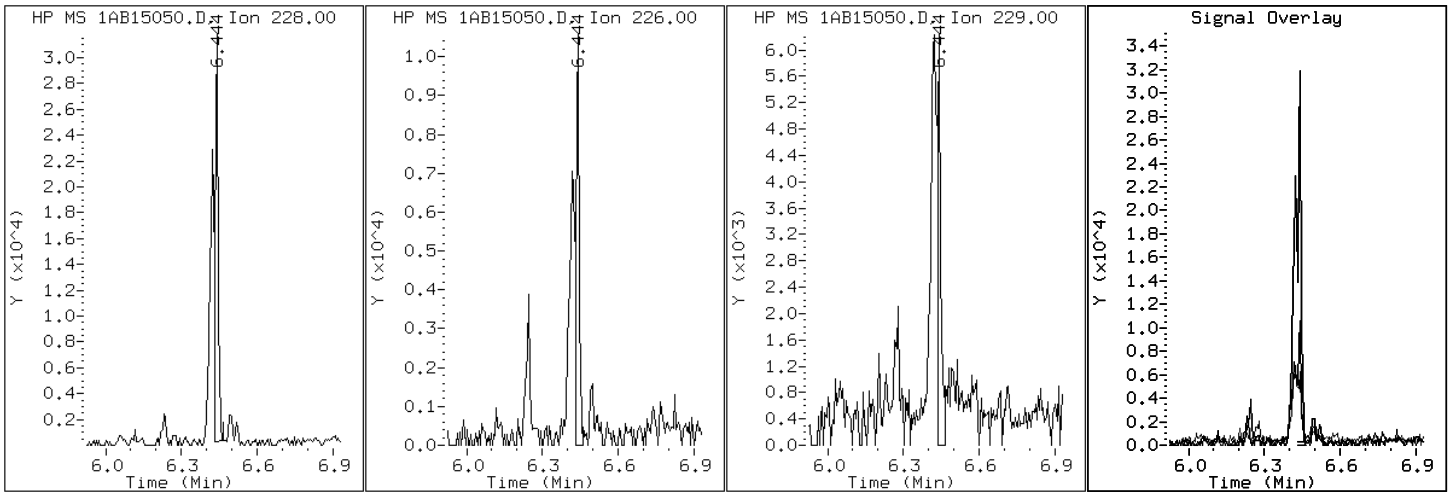
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

19 Chrysene



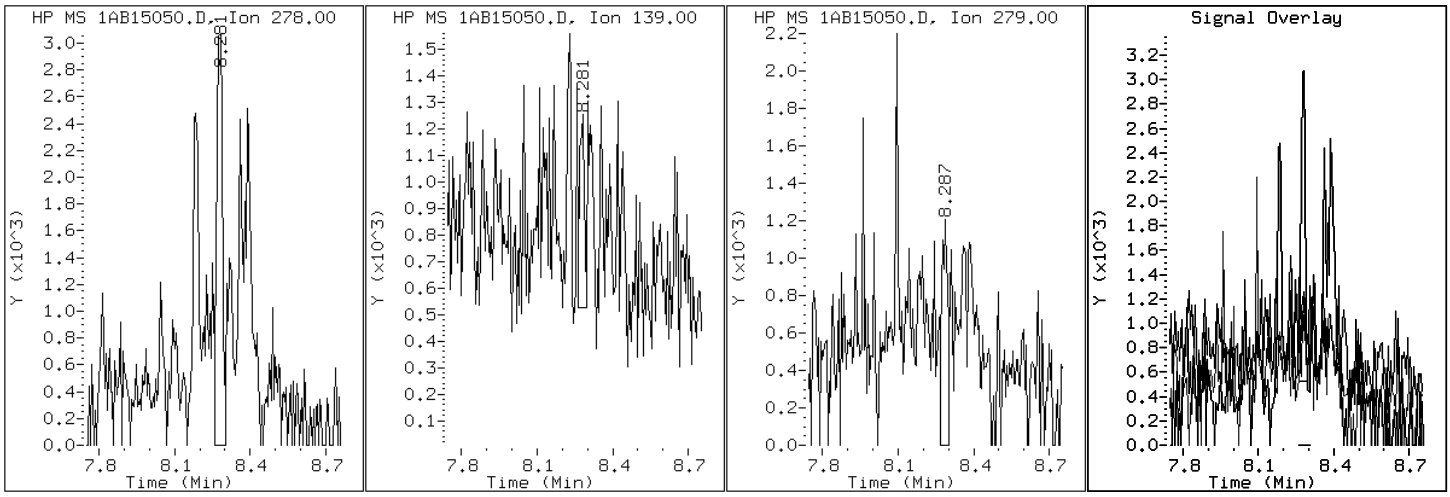
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

25 Dibenzo(a,h)anthracene



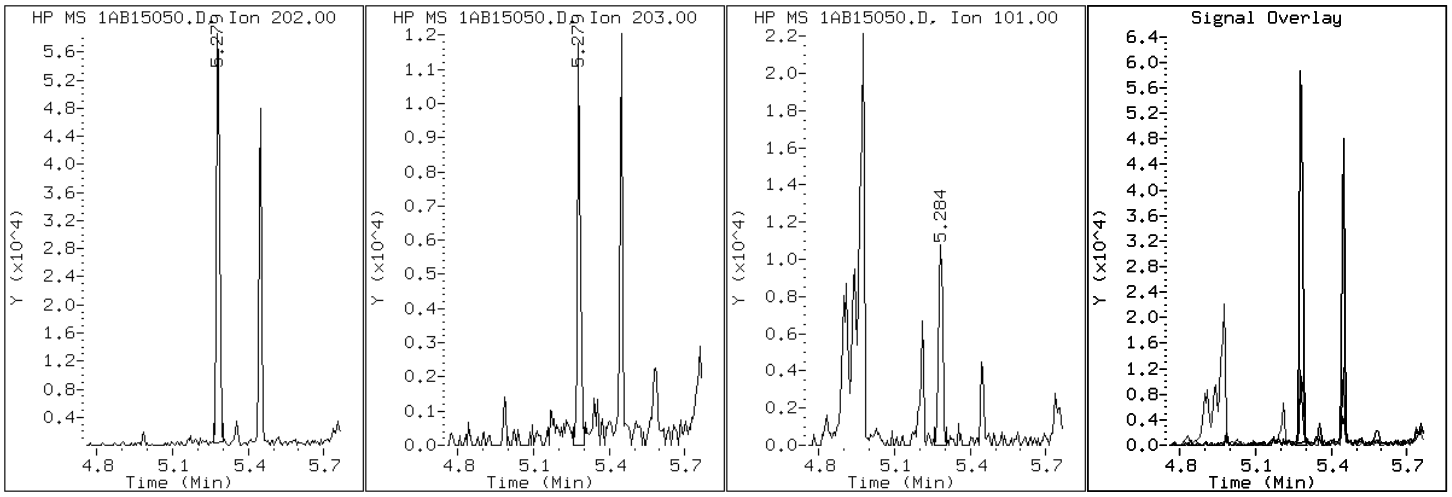
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

15 Fluoranthene



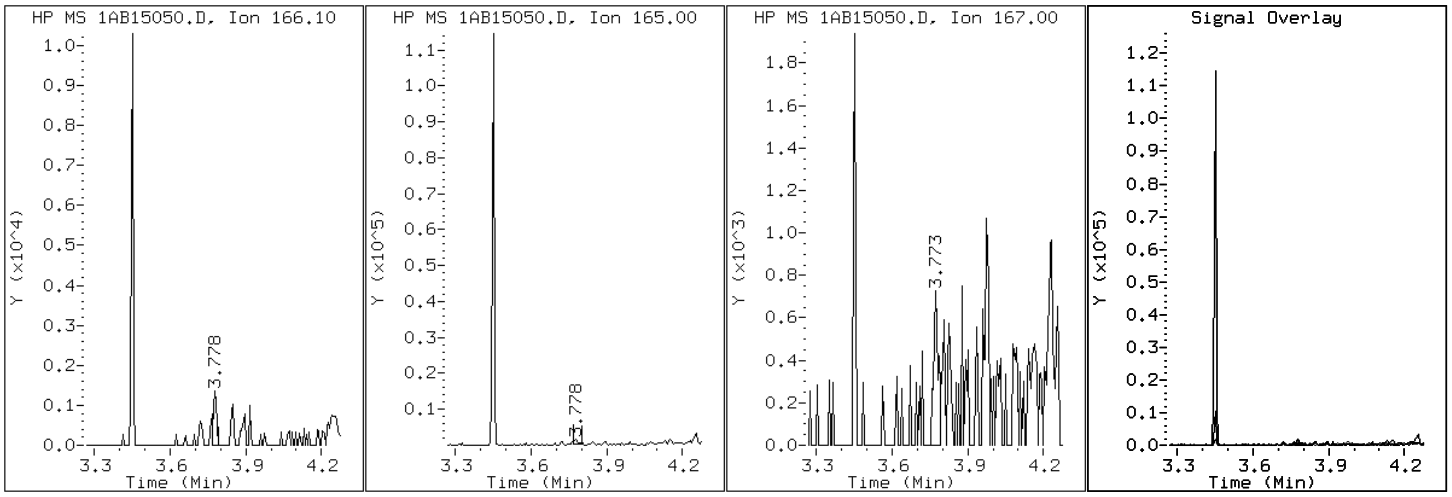
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

9 Fluorene



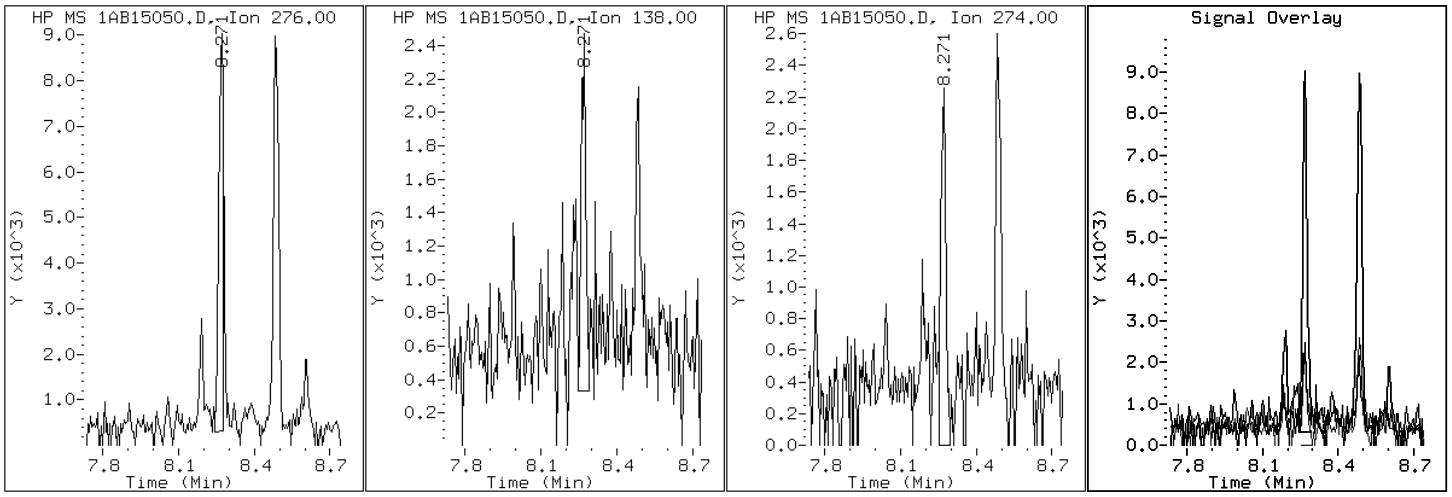
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

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



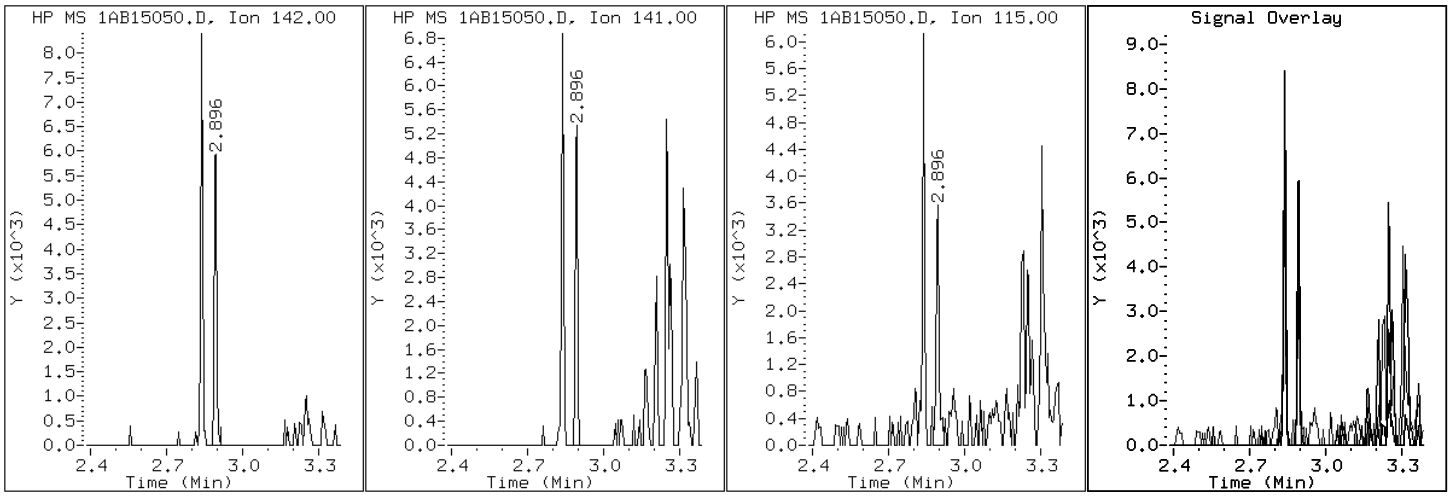
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

4 1-Methylnaphthalene



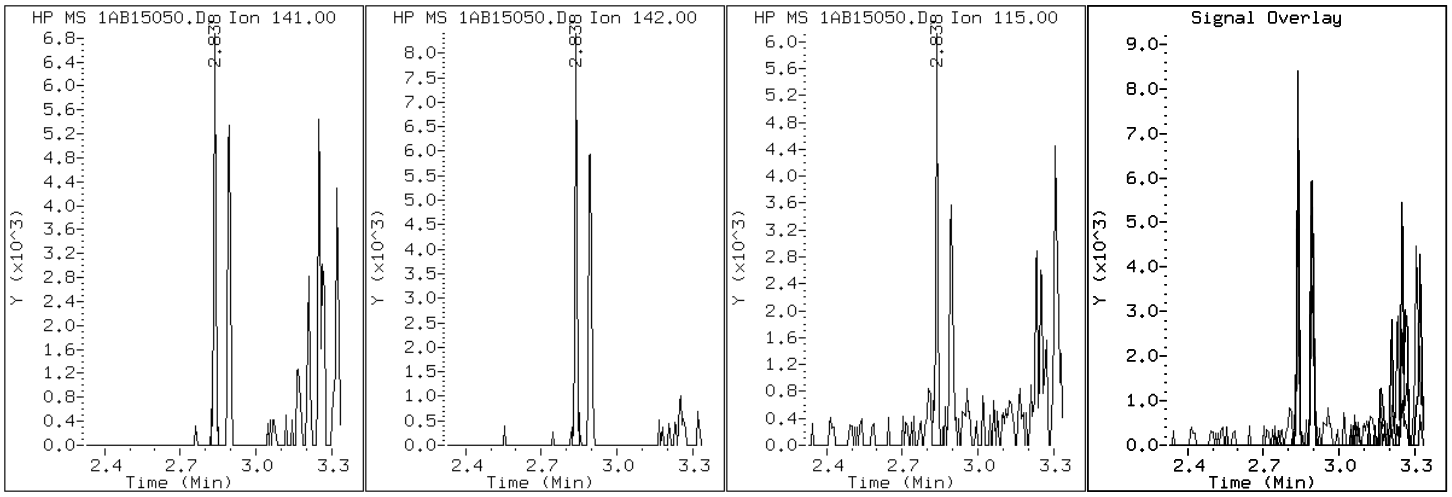
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

3 2-Methylnaphthalene



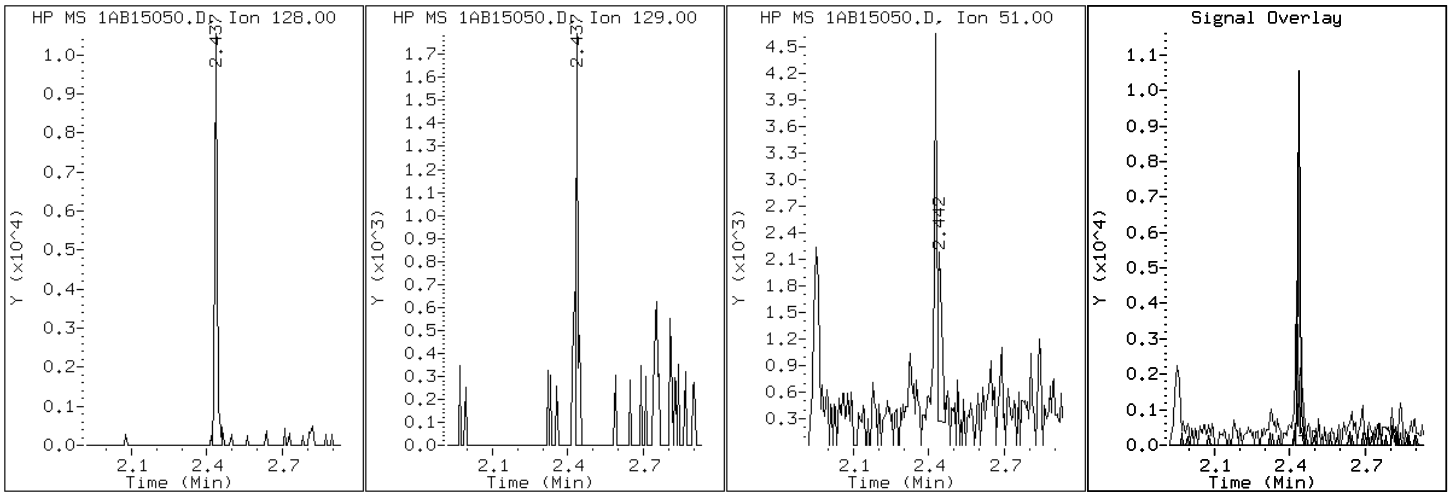
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

2 Naphthalene



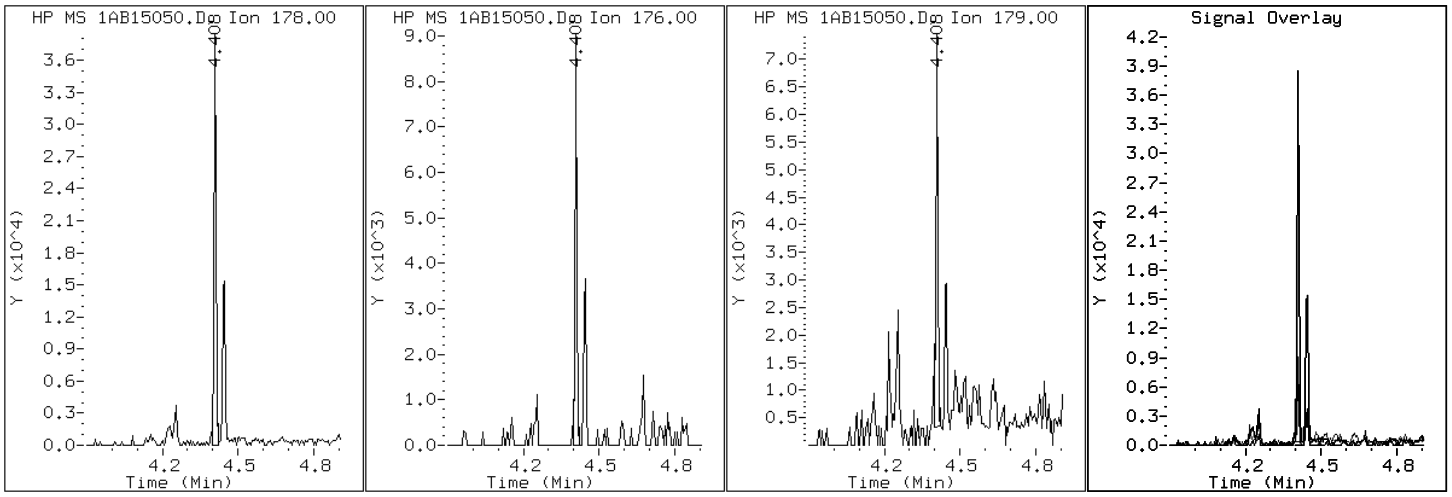
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

11 Phenanthrene



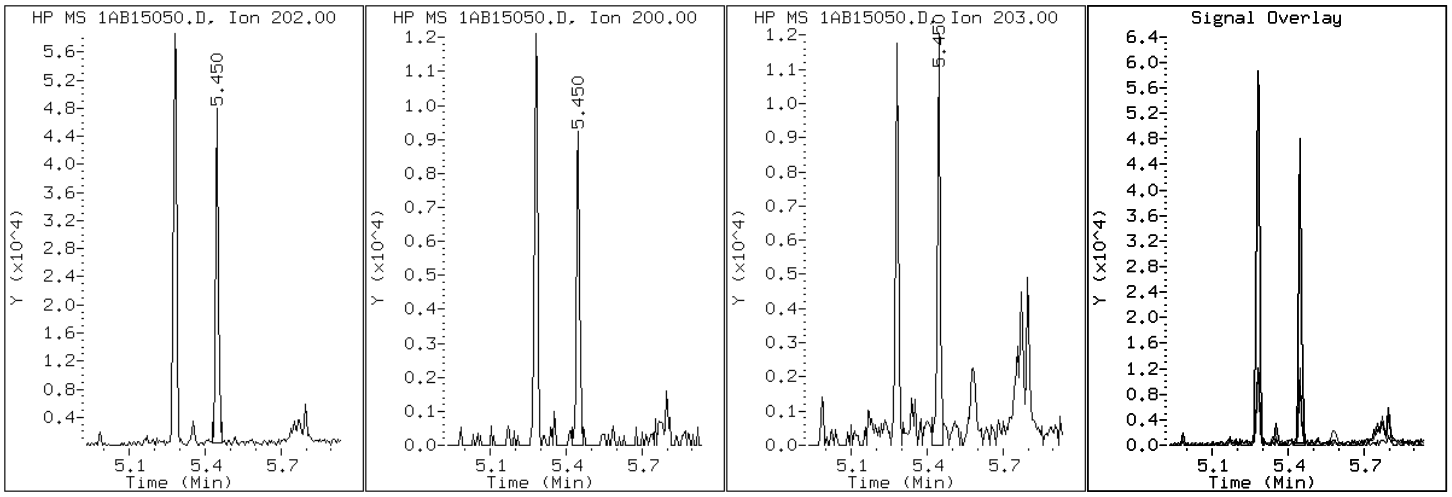
Data File: 1AB15050.D

Date: 16-FEB-2013 02:27

Client ID: CV0005AA-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-39-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15050.D
Inj. Date and Time: 16-FEB-2013 02:27
Instrument ID: BSMA5973.i
Client ID: CV0005AA-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

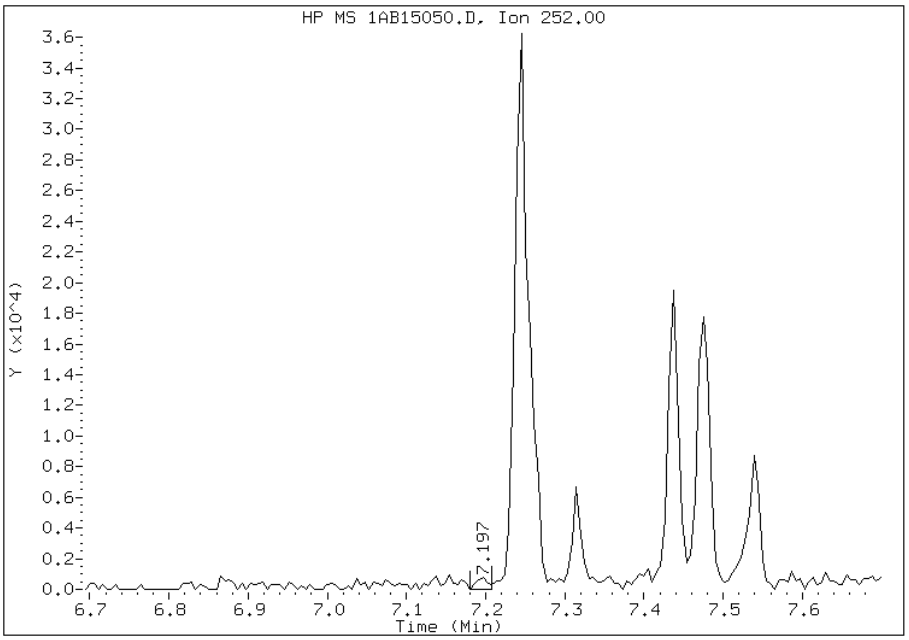
Processing Integration Results

RT: 7.20

Response: 814

Amount: 0

Conc: 10



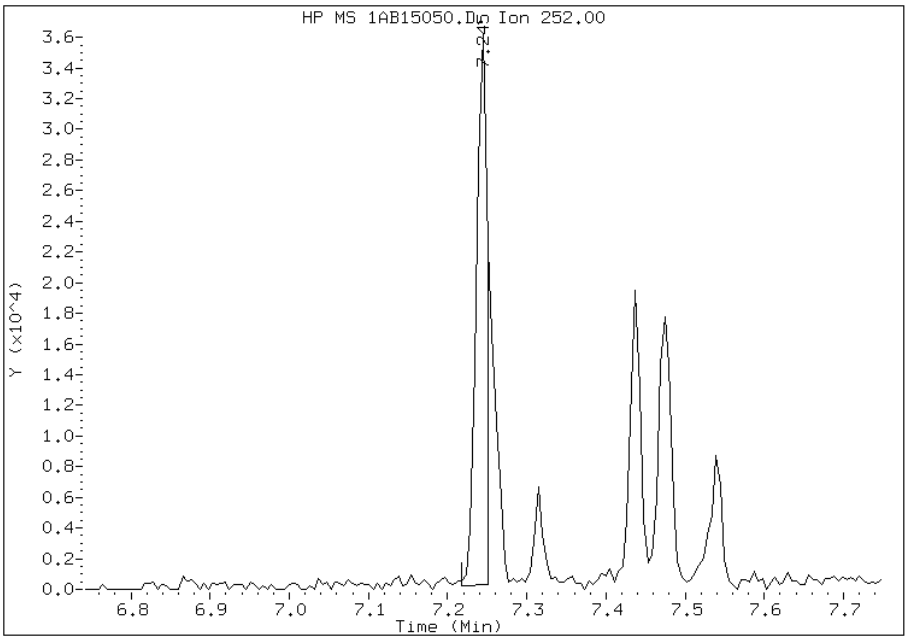
Manual Integration Results

RT: 7.24

Response: 33458

Amount: 1

Conc: 418



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:59
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15050.D
Inj. Date and Time: 16-FEB-2013 02:27
Instrument ID: BSMA5973.i
Client ID: CV0005AA-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

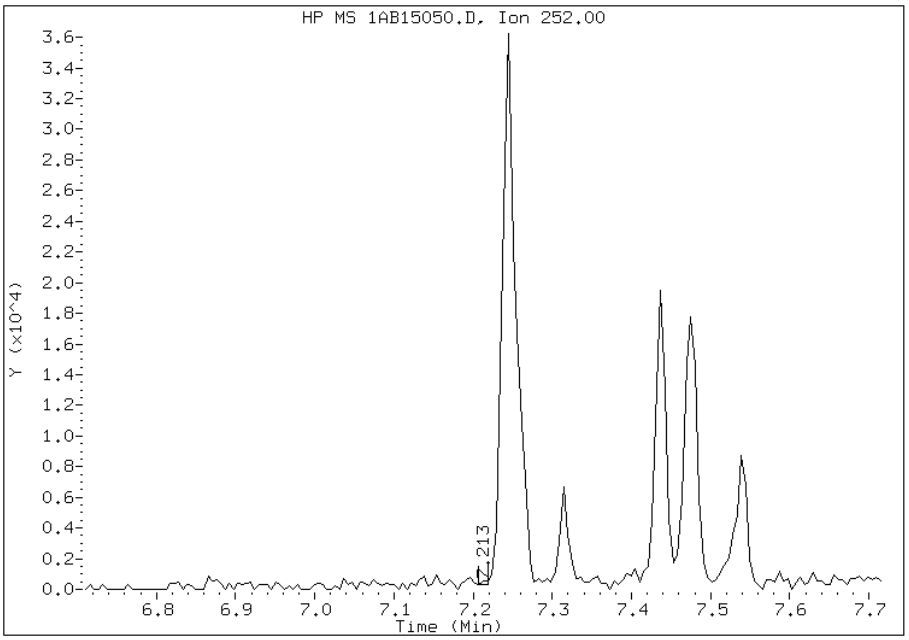
Processing Integration Results

RT: 7.21

Response: 151

Amount: 0

Conc: 2



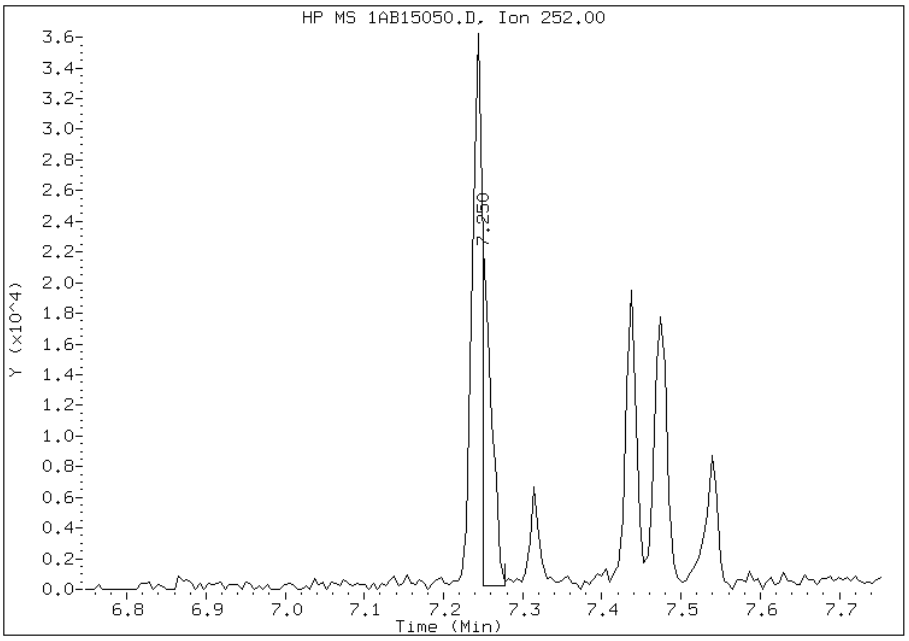
Manual Integration Results

RT: 7.25

Response: 18641

Amount: 1

Conc: 223



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:59
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15050.D
Inj. Date and Time: 16-FEB-2013 02:27
Instrument ID: BSMA5973.i
Client ID: CV0005AA-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

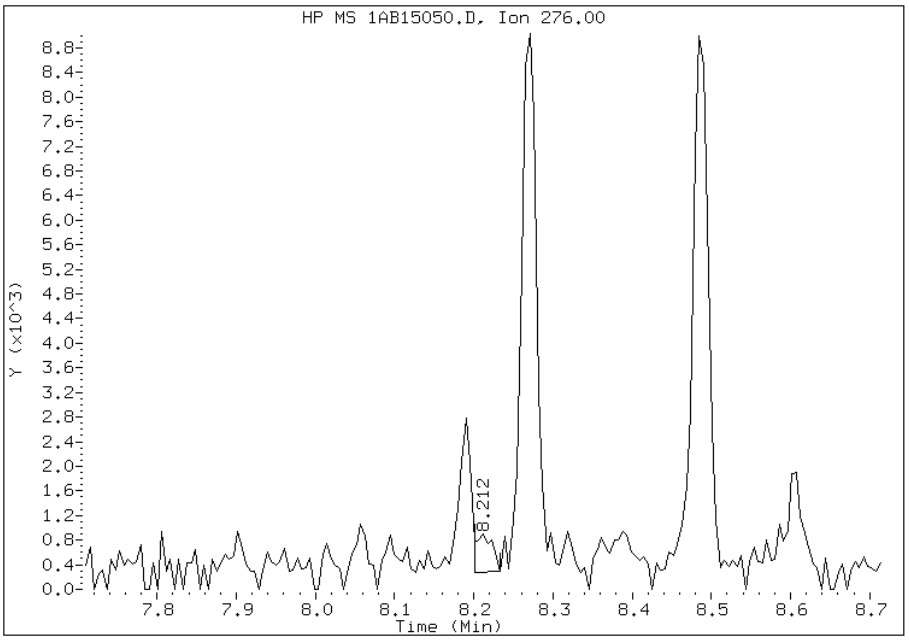
Processing Integration Results

RT: 8.21

Response: 928

Amount: 0

Conc: 15



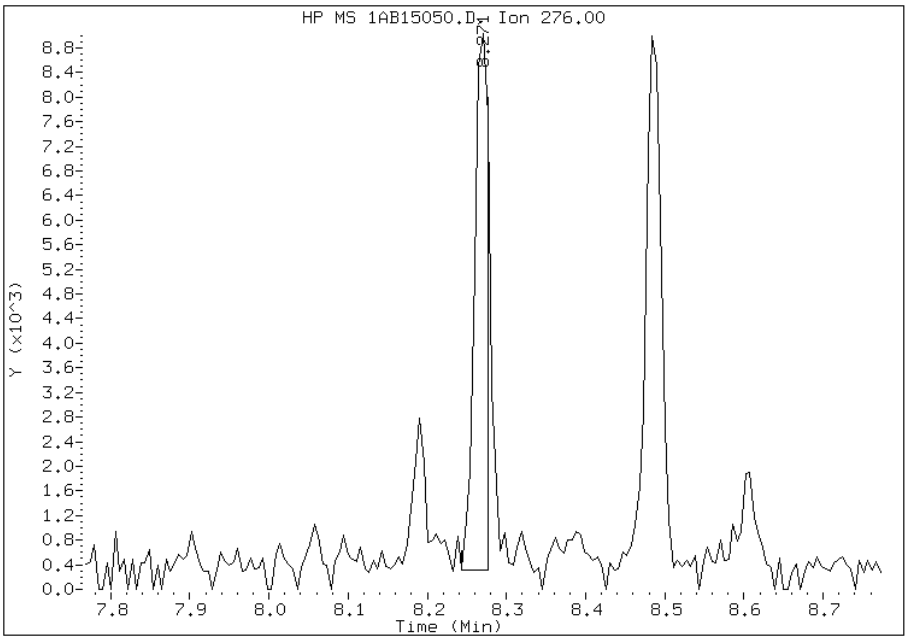
Manual Integration Results

RT: 8.27

Response: 10131

Amount: 1

Conc: 169



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:00
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005BB-CS | Lab Sample ID: 680-87318-40

Matrix: Solid | Lab File ID: 1AB15051.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 15:36

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.25(g) | Date Analyzed: 02/16/2013 02:42

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

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

% Moisture: 2.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	400	U	400	81
208-96-8	Acenaphthylene	210		160	20
120-12-7	Anthracene	250		34	17
56-55-3	Benzo[a]anthracene	740		32	16
50-32-8	Benzo[a]pyrene	520		42	21
205-99-2	Benzo[b]fluoranthene	810		49	25
191-24-2	Benzo[g,h,i]perylene	380		81	18
207-08-9	Benzo[k]fluoranthene	360		32	15
218-01-9	Chrysene	600		36	18
53-70-3	Dibenz(a,h)anthracene	150		81	17
206-44-0	Fluoranthene	1100		81	16
86-73-7	Fluorene	52	J	81	17
193-39-5	Indeno[1,2,3-cd]pyrene	340		81	29
90-12-0	1-Methylnaphthalene	130	J	160	18
91-57-6	2-Methylnaphthalene	150	J	160	29
91-20-3	Naphthalene	130	J	160	18
85-01-8	Phenanthrene	590		32	16
129-00-0	Pyrene	750		81	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15051.D
Lab Smp Id: 680-87318-A-40-A Client Smp ID: CV0005BB-CS
Inj Date : 16-FEB-2013 02:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-40-a
Misc Info : 680-87318-A-40-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 48
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.250	Weight Extracted
M	2.404	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.425	2.415	(1.000)	689877	40.0000	
* 6 Acenaphthene-d10	164	3.451	3.441	(1.000)	506508	40.0000	
* 10 Phenanthrene-d10	188	4.397	4.386	(1.000)	790102	40.0000	
$ 14 o-Terphenyl	230	4.674	4.664	(1.063)	23346	2.03352	546.5189
* 18 Chrysene-d12	240	6.427	6.411	(1.000)	767304	40.0000	
* 23 Perylene-d12	264	7.532	7.501	(1.000)	812313	40.0000	(H)
2 Naphthalene	128	2.436	2.426	(1.004)	8128	0.48540	130.4541
3 2-Methylnaphthalene	141	2.837	2.832	(1.170)	5042	0.56206	151.0562
4 1-Methylnaphthalene	142	2.890	2.885	(1.192)	4778	0.47052	126.4554
5 Acenaphthylene	152	3.366	3.355	(0.975)	17282	0.77273	207.6748
9 Fluorene	166	3.777	3.772	(1.094)	2960	0.19447	52.2649
11 Phenanthrene	178	4.407	4.402	(1.002)	47567	2.20492	592.5834
12 Anthracene	178	4.445	4.434	(1.011)	20441	0.92934	249.7659
13 Carbazole	167	4.600	4.589	(1.046)	6820	0.36173	97.2162

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.278	5.262	(1.200)	89952	4.20563	1130.2870
16 Pyrene	202	5.444	5.433	(0.847)	77612	2.80075	752.7166
17 Benzo(a)anthracene	228	6.421	6.395	(0.999)	63394	2.76701	743.6492
19 Chrysene	228	6.443	6.427	(1.002)	49842	2.23191	599.8389
20 Benzo(b)fluoranthene	252	7.244	7.217	(0.962)	68628	3.02701	813.5269(MH)
21 Benzo(k)fluoranthene	252	7.255	7.239	(0.963)	31681	1.33652	359.1960(QMH)
22 Benzo(a)pyrene	252	7.474	7.452	(0.992)	41750	1.93920	521.1703(H)
24 Indeno(1,2,3-cd)pyrene	276	8.270	8.238	(1.098)	21300	1.25292	336.7284(MH)
25 Dibenzo(a,h)anthracene	278	8.280	8.254	(1.099)	9648	0.56768	152.5680(H)
26 Benzo(g,h,i)perylene	276	8.489	8.446	(1.127)	25116	1.42605	383.2586(H)

QC Flag Legend

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

Data File: 1AB15051.D

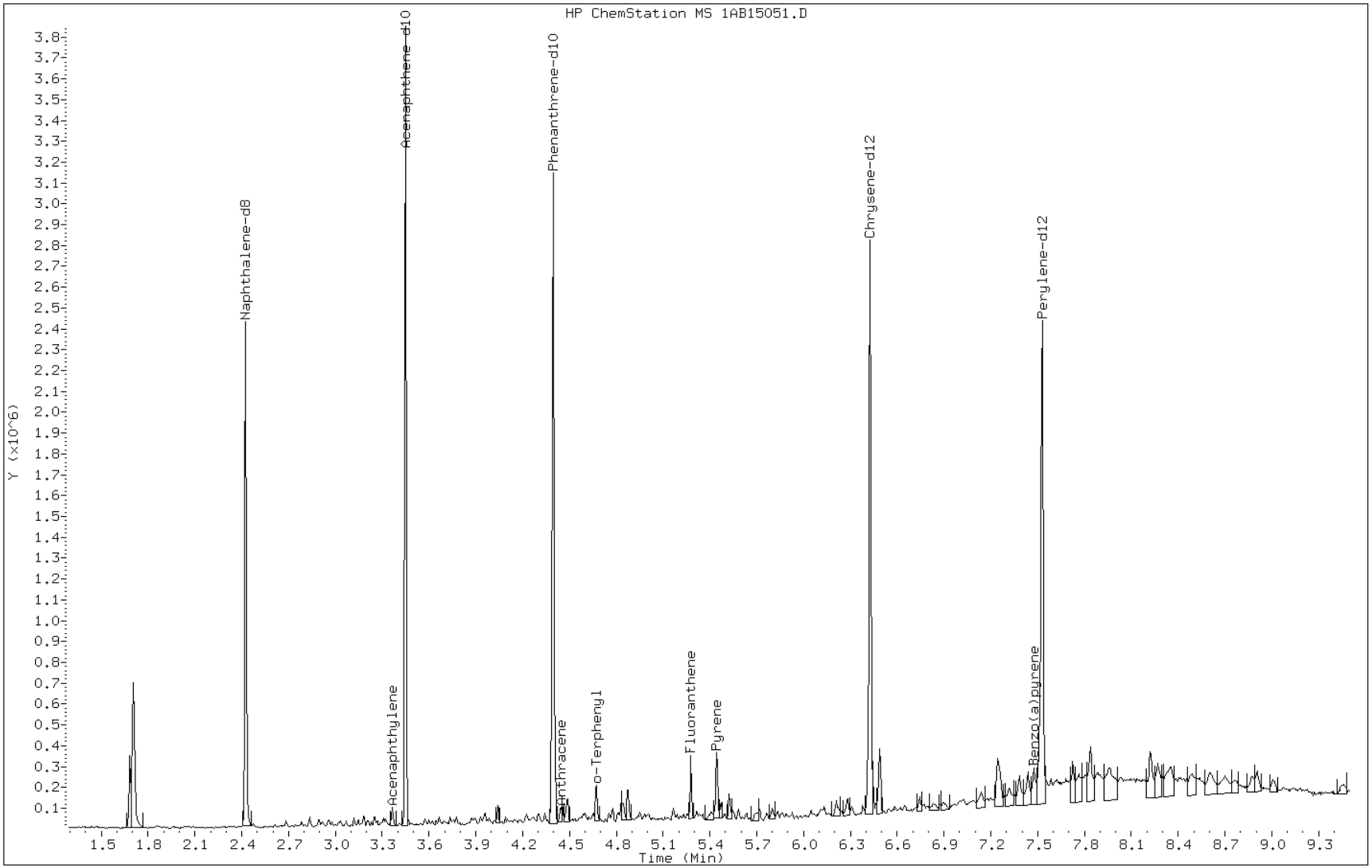
Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS

Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a

Operator: SCC



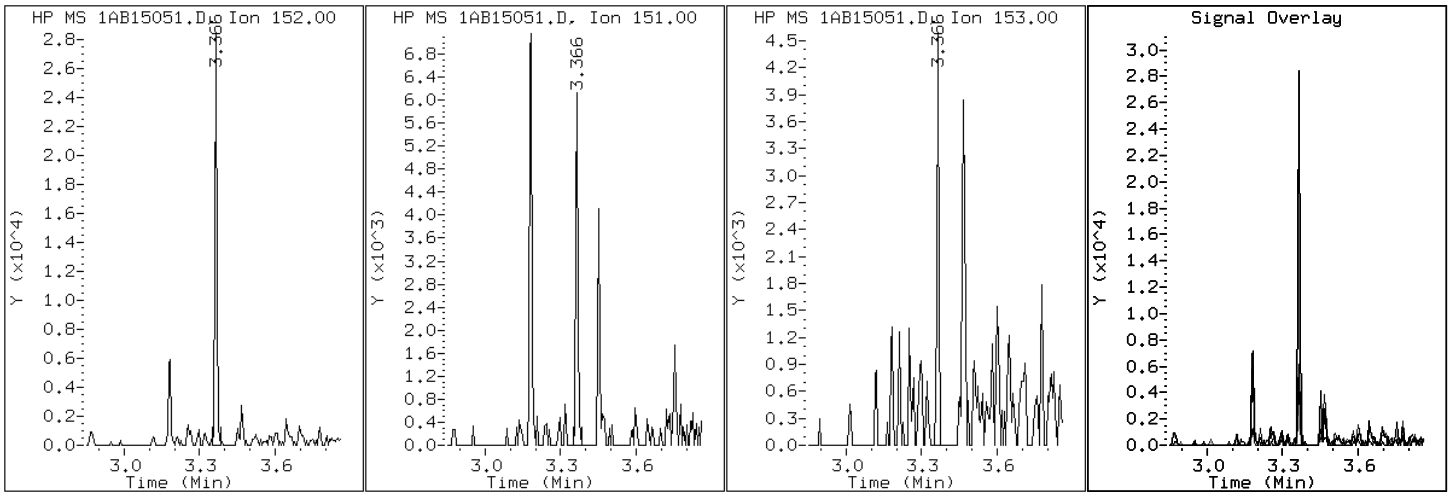
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

5 Acenaphthylene



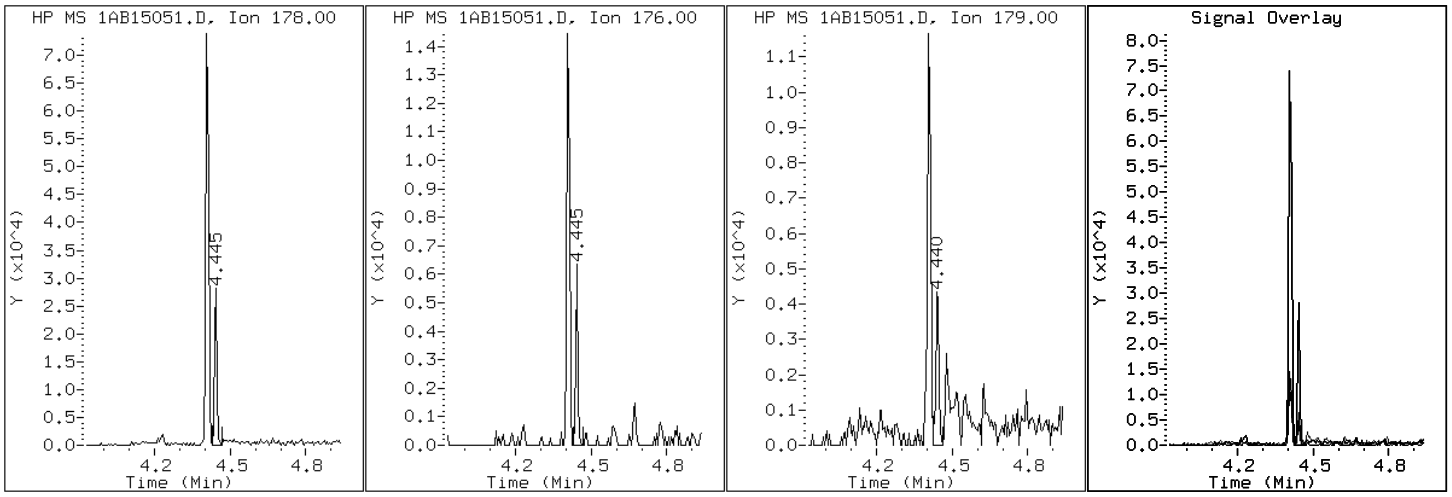
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

12 Anthracene



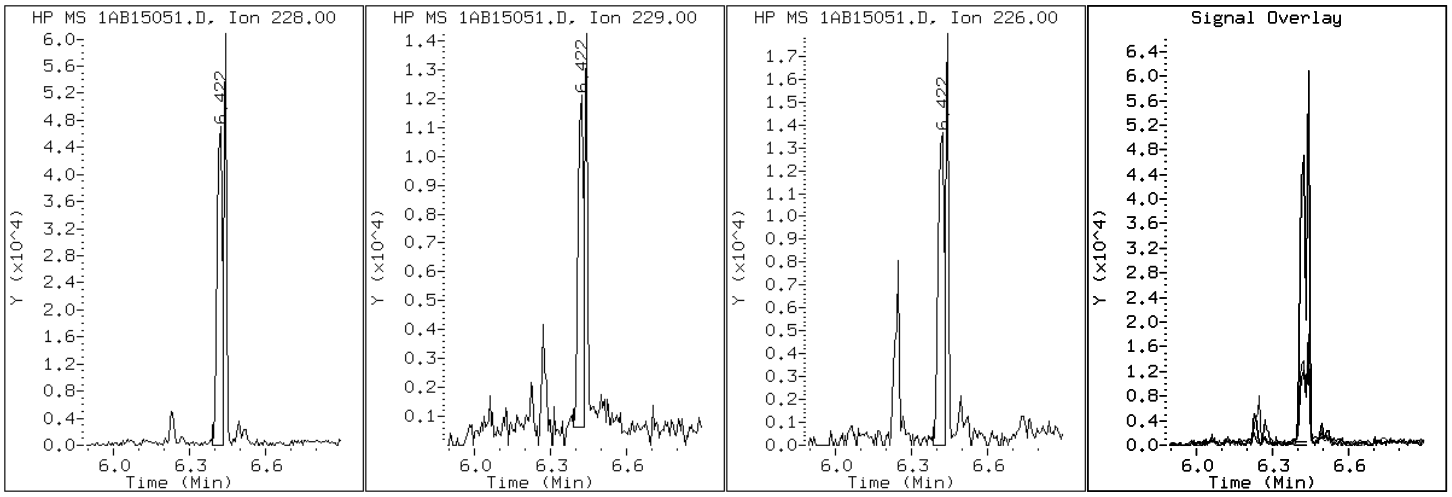
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

17 Benzo(a)anthracene



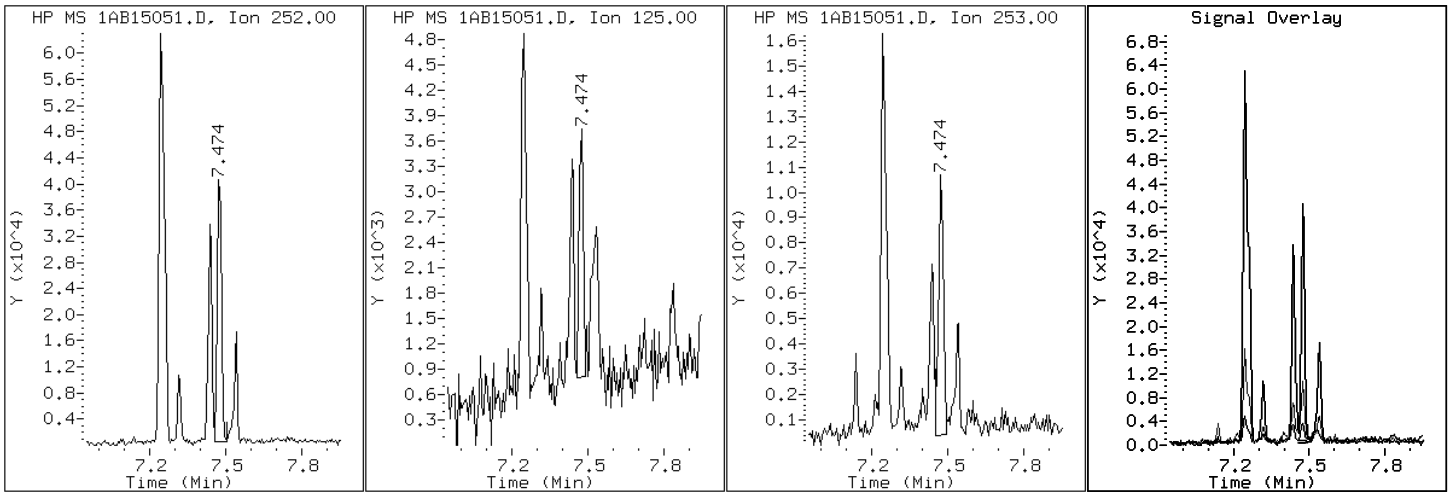
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

22 Benzo(a)pyrene



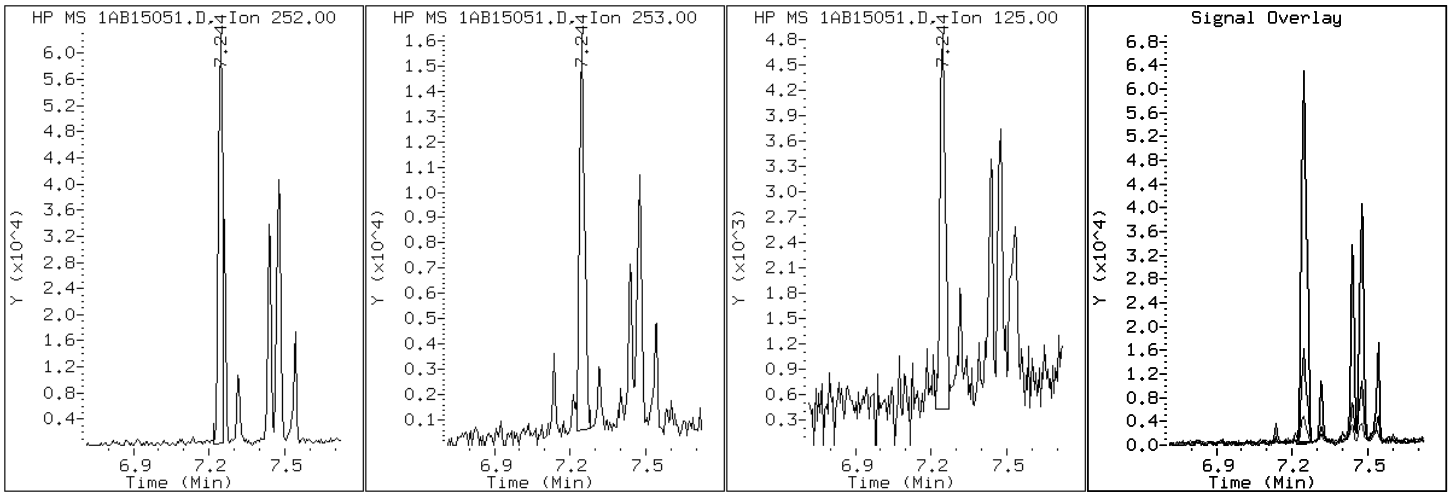
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

20 Benzo(b)fluoranthene



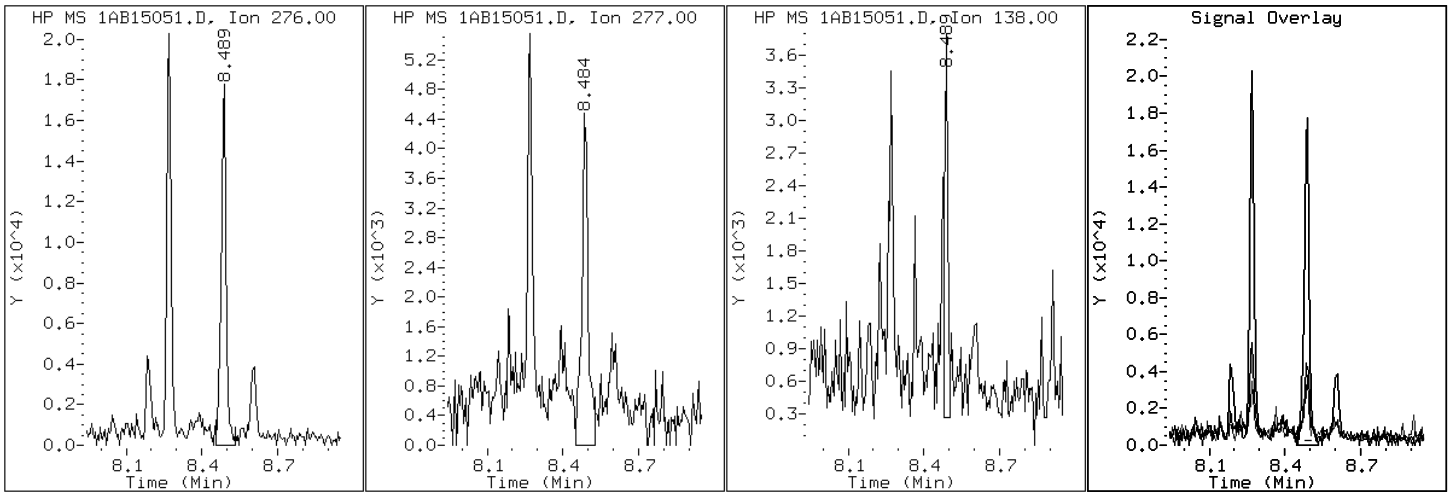
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

26 Benzo(g,h,i)perylene



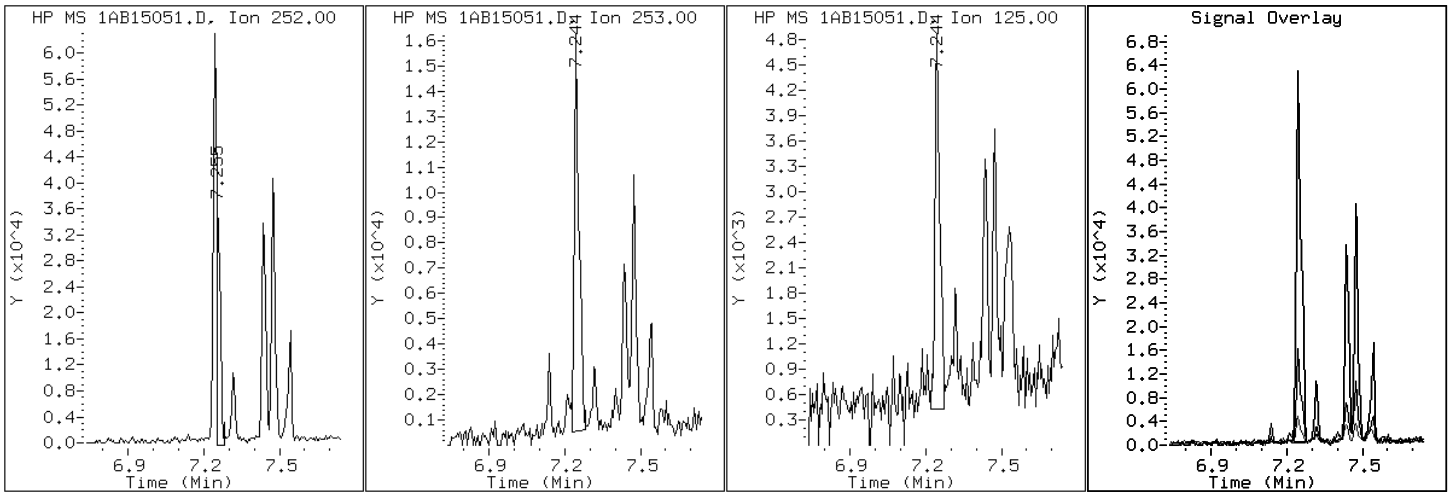
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

21 Benzo(k)fluoranthene



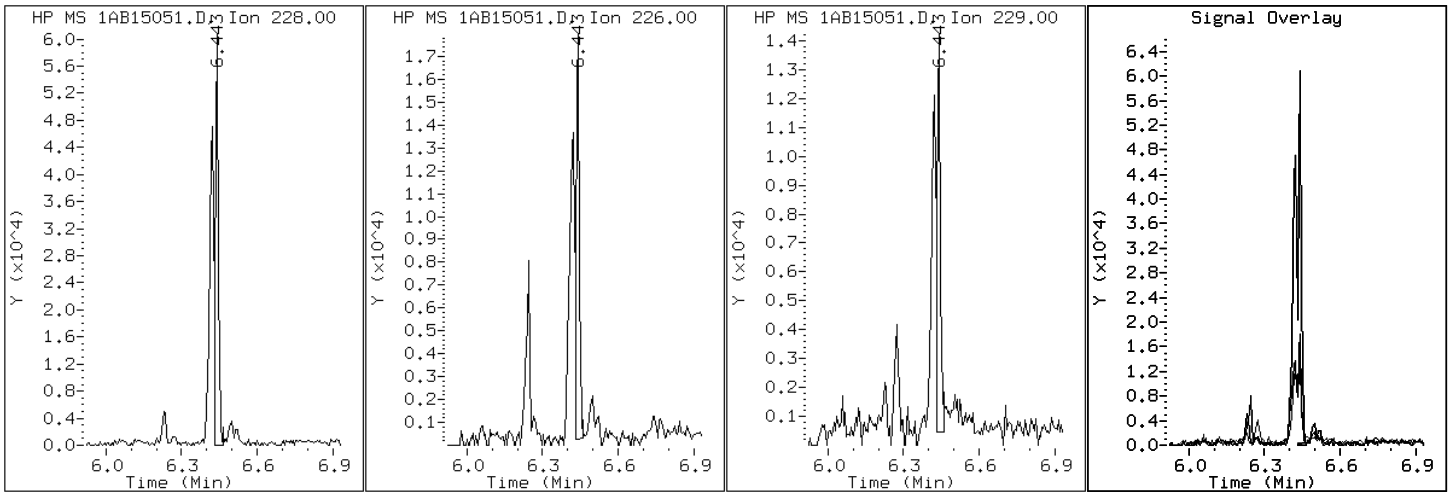
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

19 Chrysene



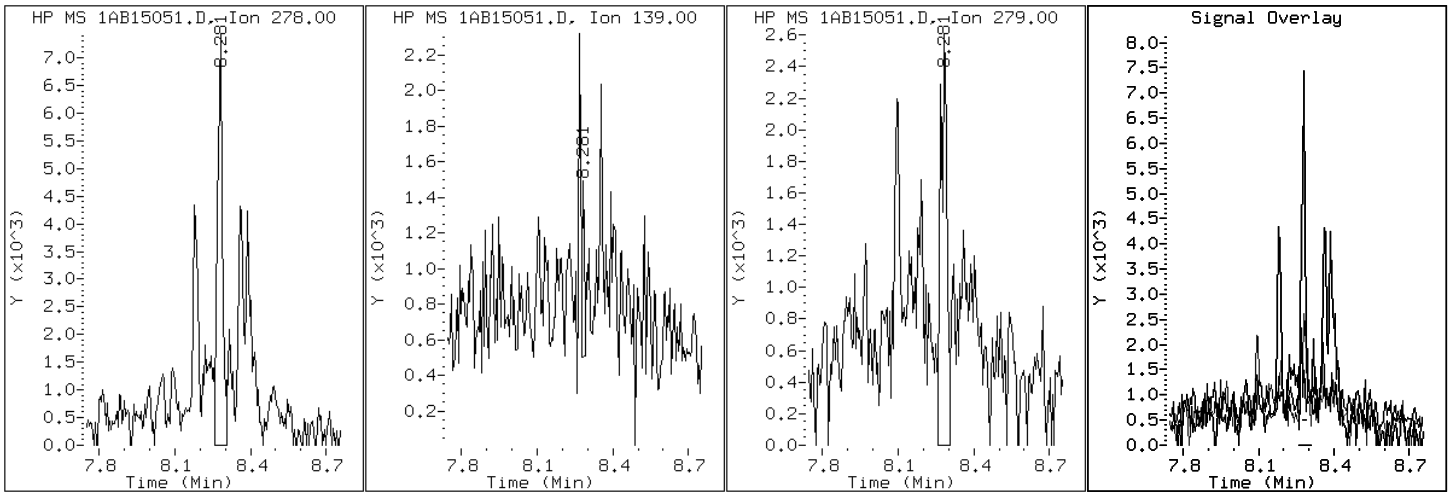
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

25 Dibenzo(a,h)anthracene



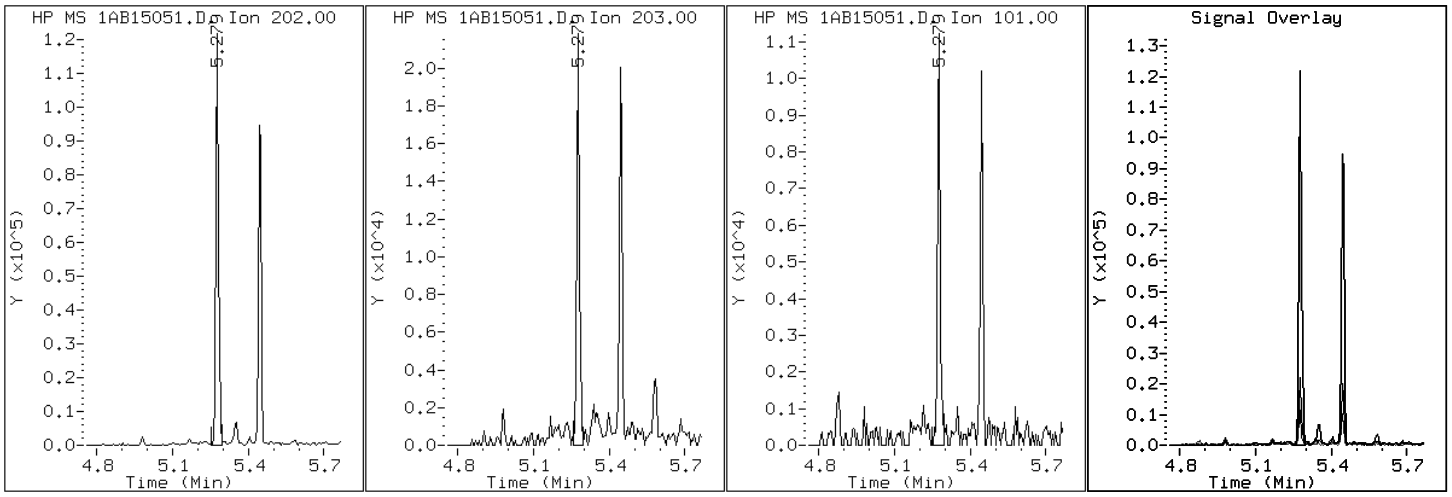
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

15 Fluoranthene



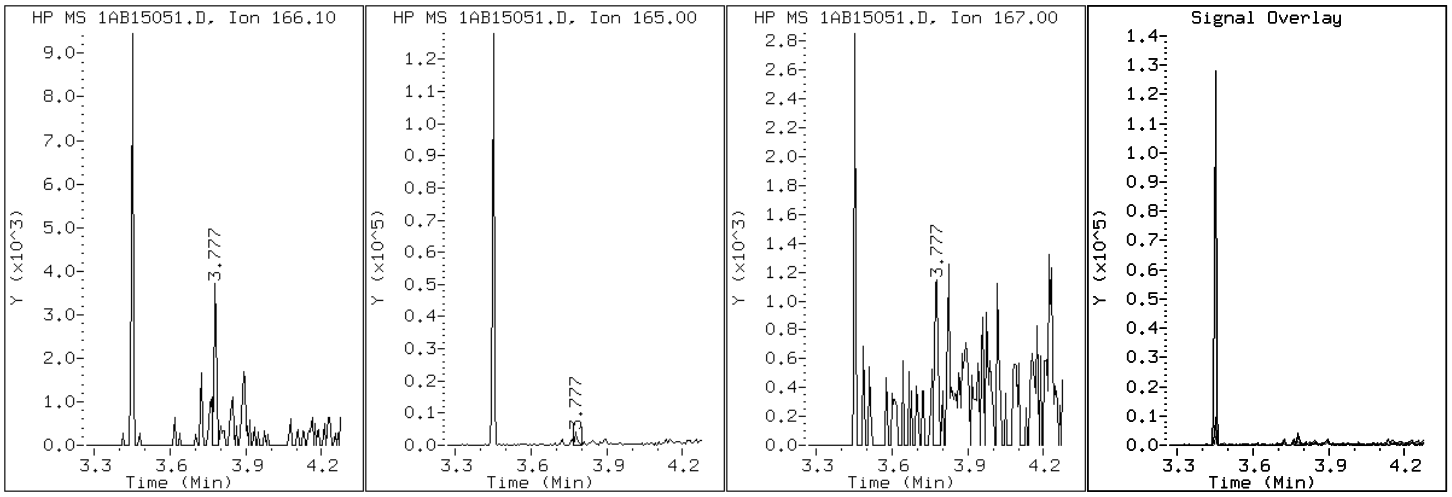
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

9 Fluorene



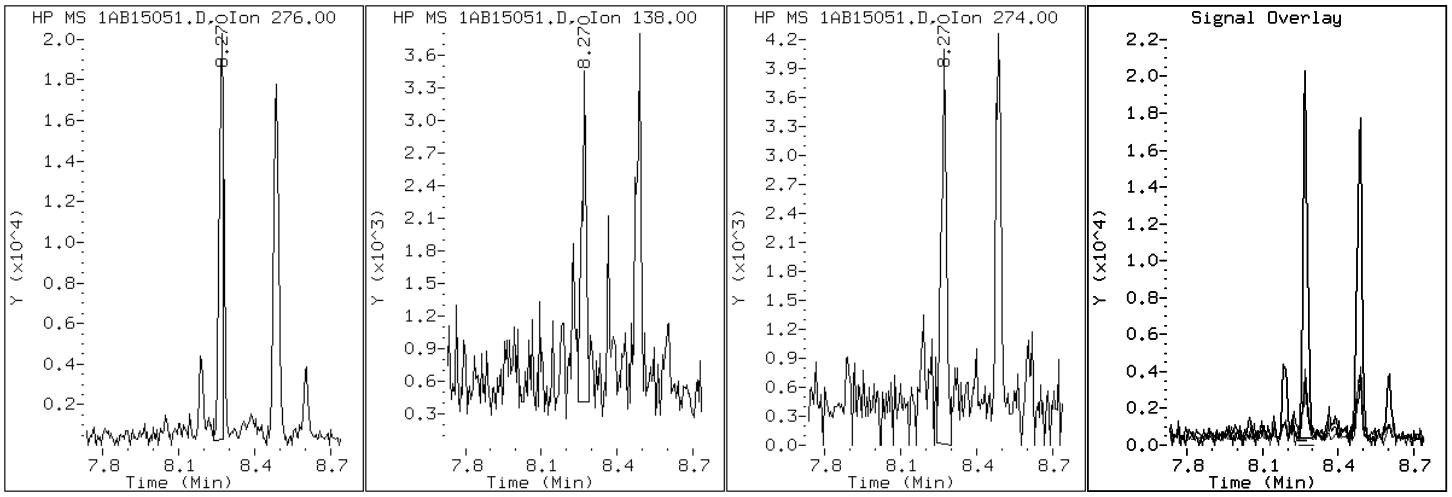
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

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



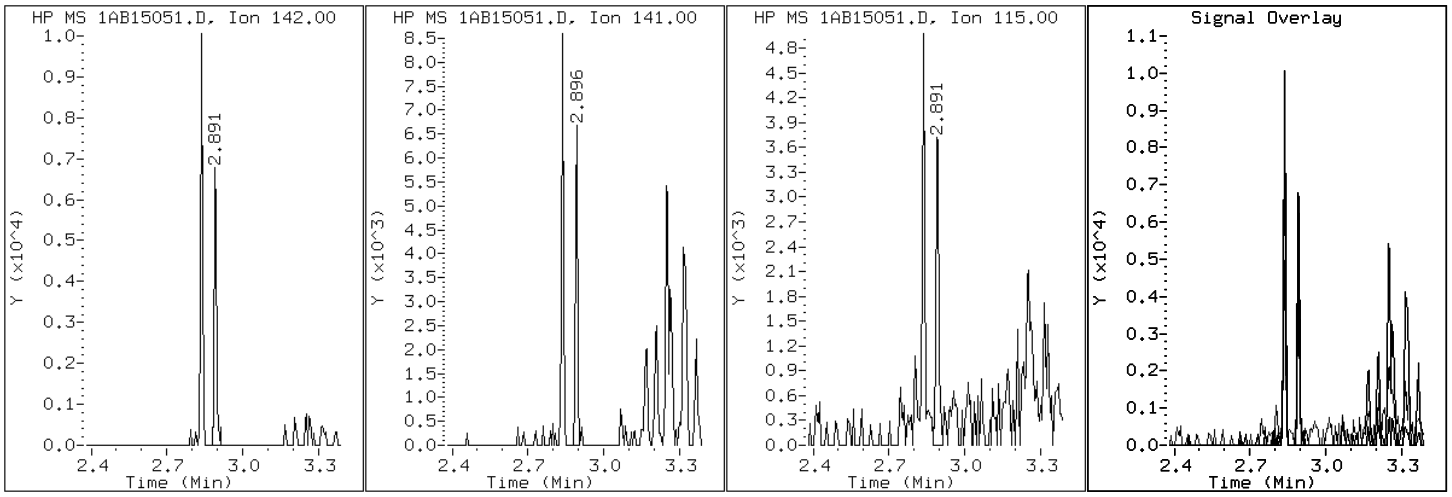
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

4 1-Methylnaphthalene



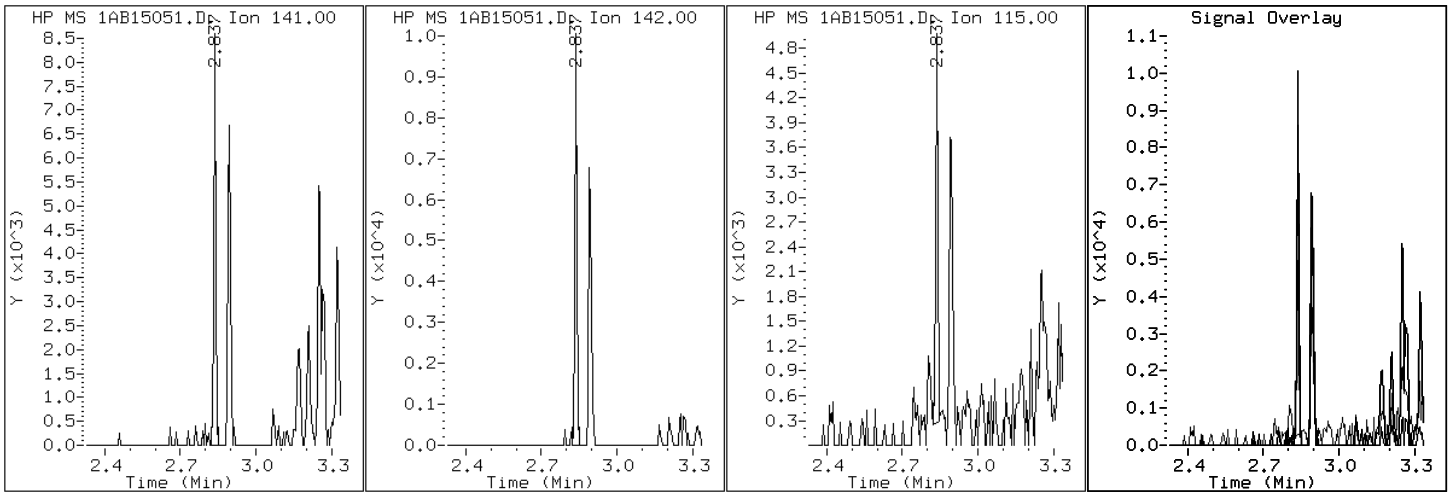
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

3 2-Methylnaphthalene



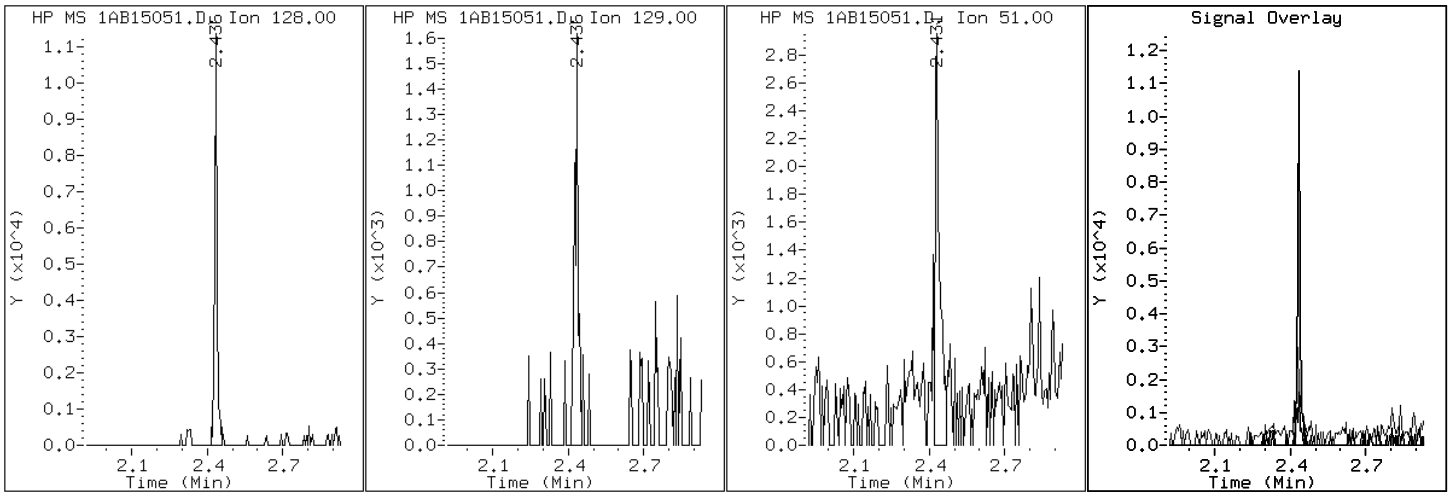
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

2 Naphthalene



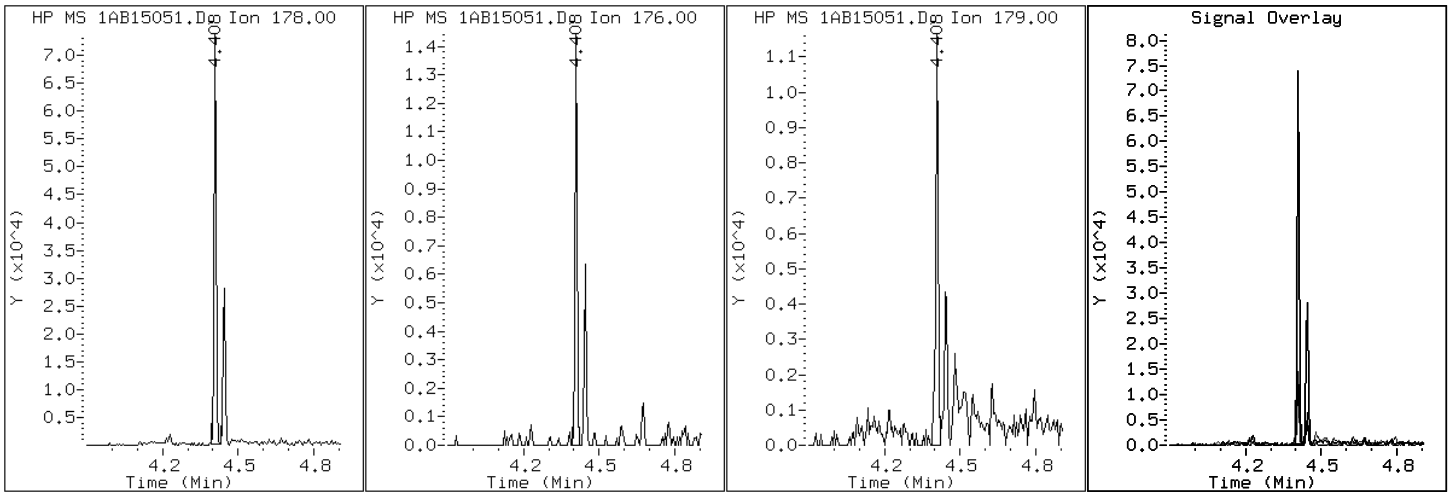
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

11 Phenanthrene



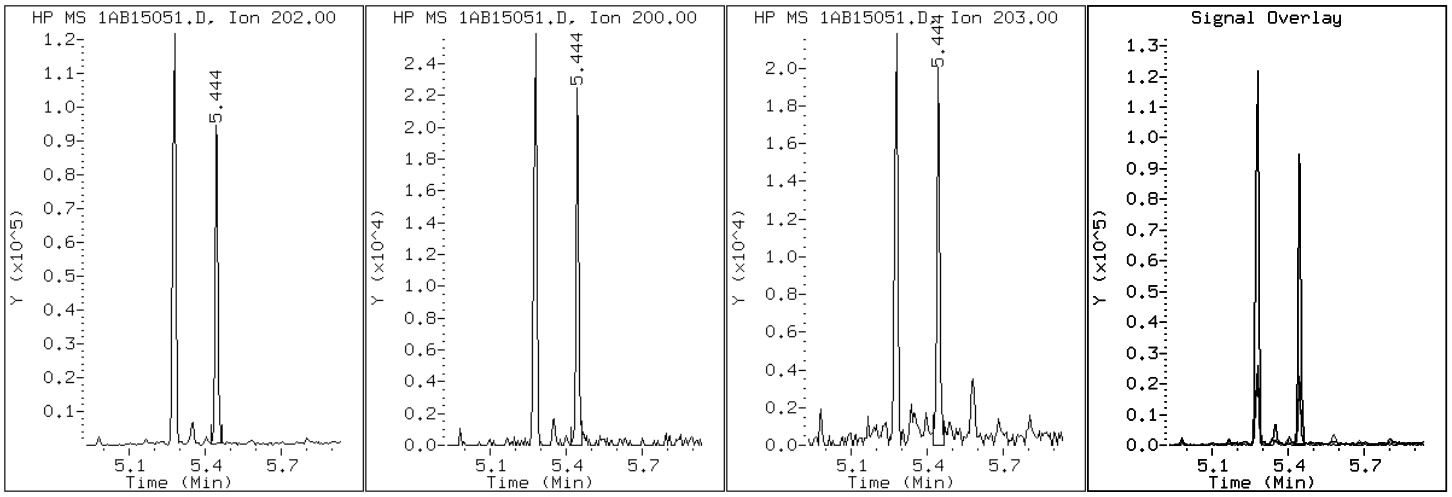
Data File: 1AB15051.D

Date: 16-FEB-2013 02:42

Client ID: CV0005BB-CS Instrument: BSMA5973.i

Sample Info: 680-87318-a-40-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB15051.D
Inj. Date and Time: 16-FEB-2013 02:42
Instrument ID: BSMA5973.i
Client ID: CV0005BB-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/18/2013

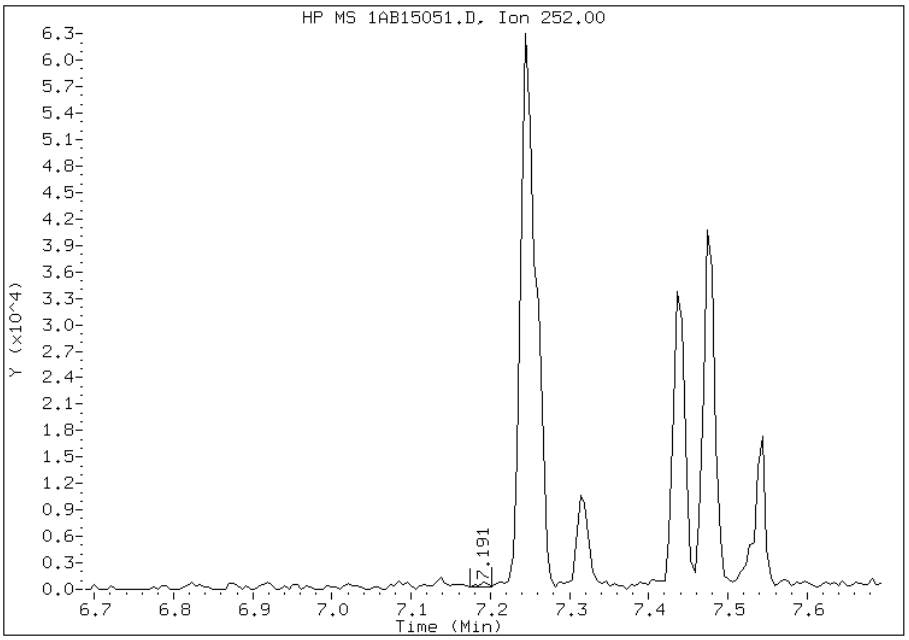
Processing Integration Results

RT: 7.19

Response: 425

Amount: 0

Conc: 5



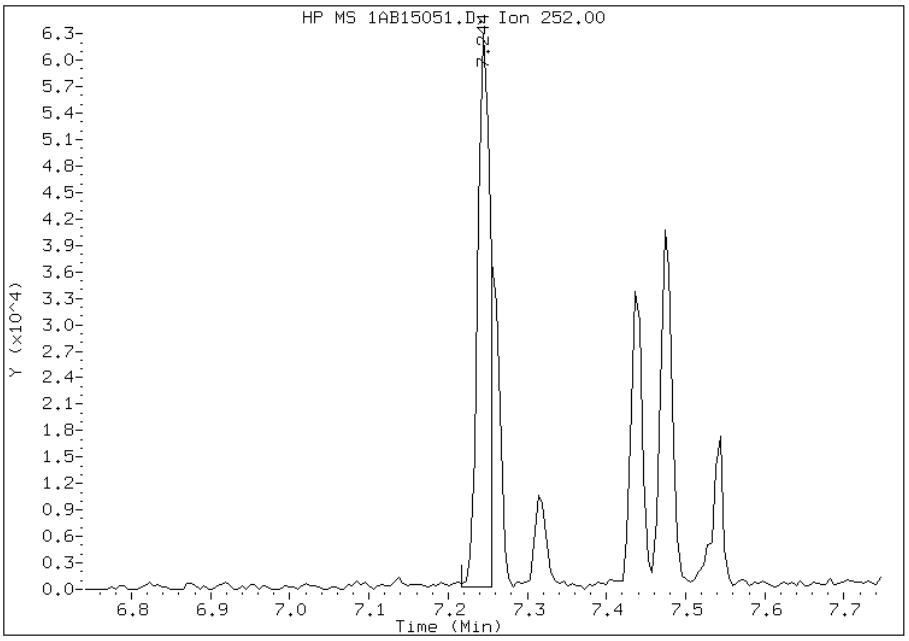
Manual Integration Results

RT: 7.24

Response: 68628

Amount: 3

Conc: 814



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB15051.D
Inj. Date and Time: 16-FEB-2013 02:42
Instrument ID: BSMA5973.i
Client ID: CV0005BB-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/18/2013

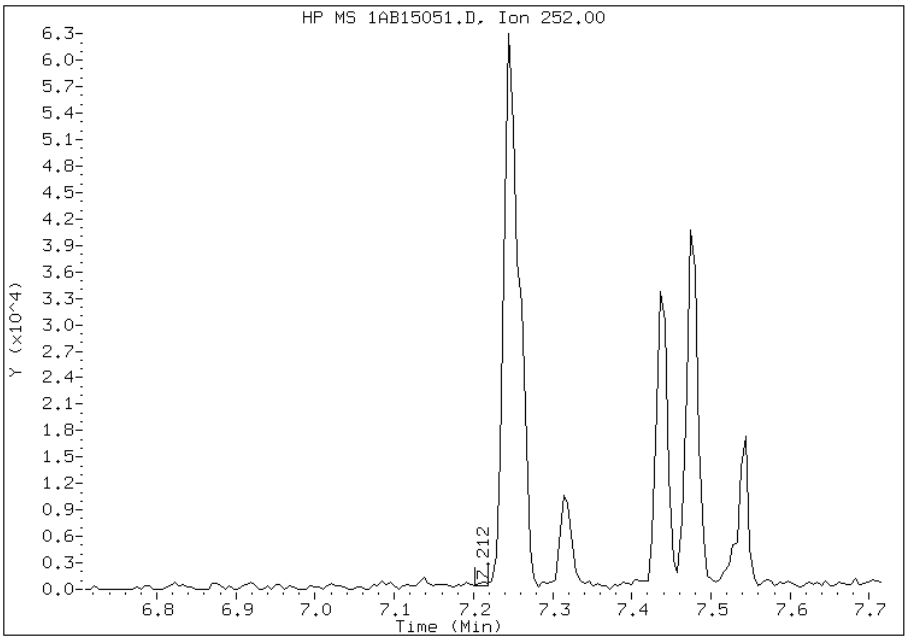
Processing Integration Results

RT: 7.21

Response: 268

Amount: 0

Conc: 3



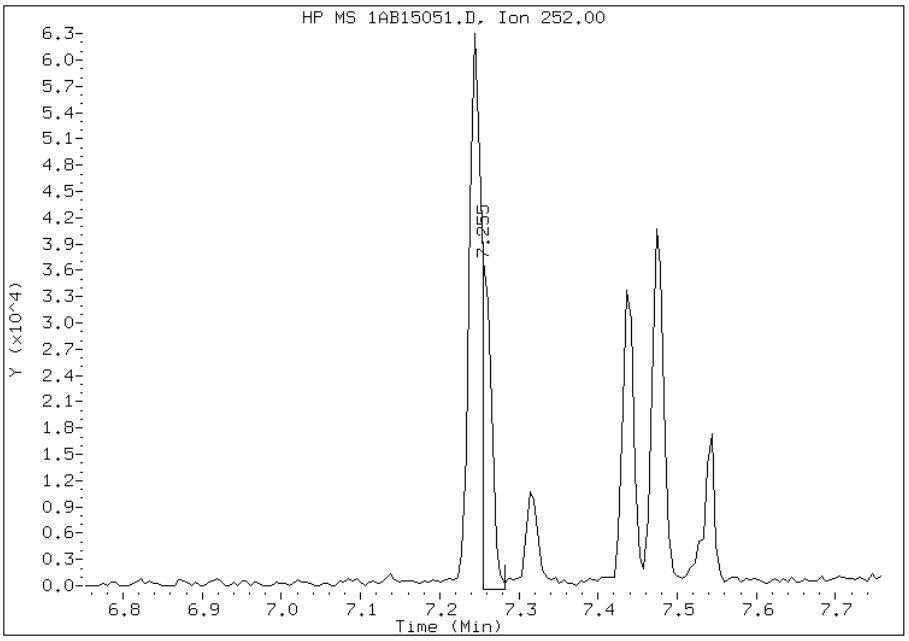
Manual Integration Results

RT: 7.26

Response: 31681

Amount: 1

Conc: 359



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB15051.D
Inj. Date and Time: 16-FEB-2013 02:42
Instrument ID: BSMA5973.i
Client ID: CV0005BB-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

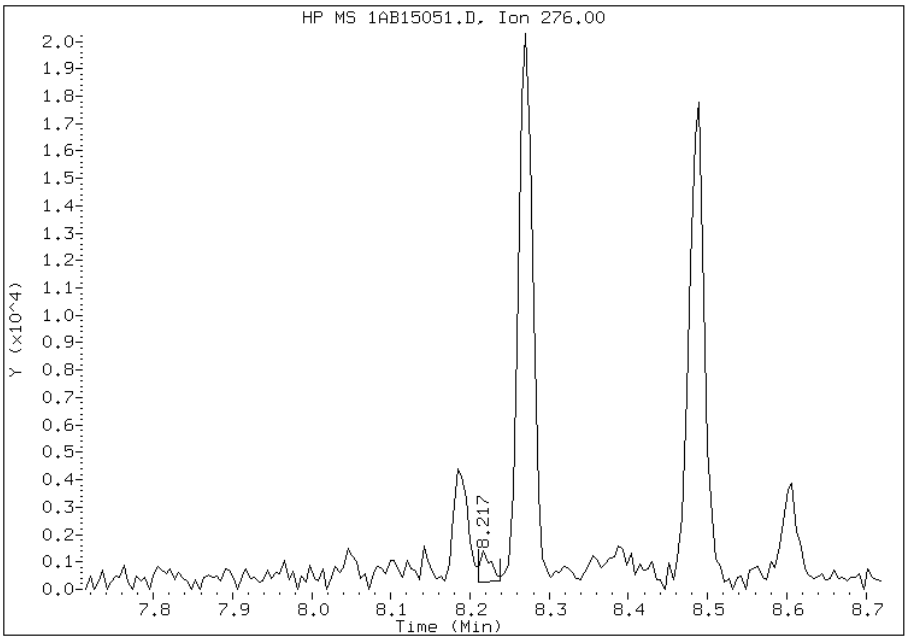
Processing Integration Results

RT: 8.22

Response: 1078

Amount: 0

Conc: 17



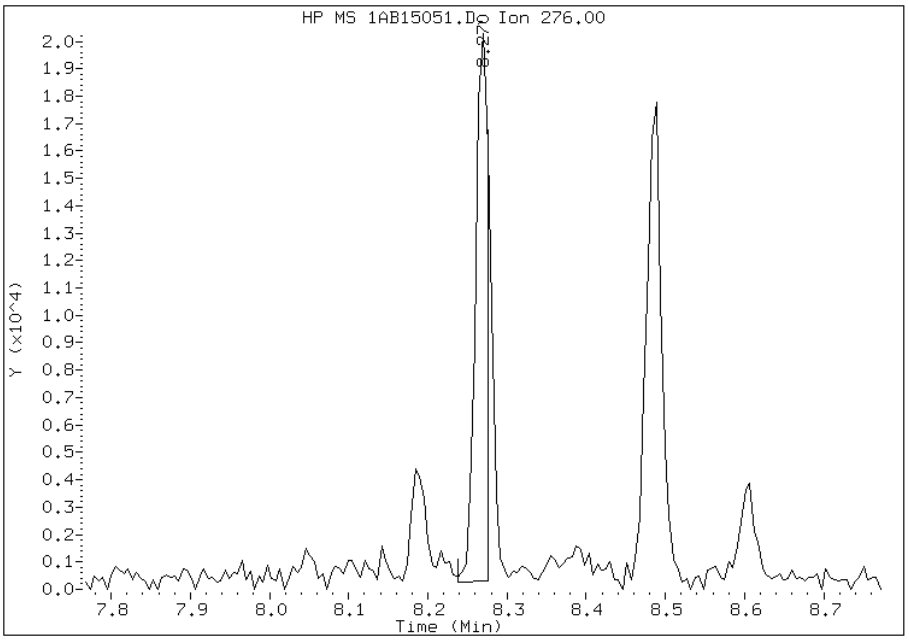
Manual Integration Results

RT: 8.27

Response: 21300

Amount: 1

Conc: 337



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:02
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2 Analy Batch No.: 133924

SDG No.: 68087318-2

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

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133924/4	1AA30004.D
Level 2	IC 660-133924/5	1AA30005.D
Level 3	IC 660-133924/6	1AA30006.D
Level 4	IC 660-133924/7	1AA30007.D
Level 5	ICIS 660-133924/3	1AA30003.D
Level 6	IC 660-133924/8	1AA30008.D
Level 7	IC 660-133924/9	1AA30009.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	0.8691 1.0049	0.9779 0.9900	0.9957	0.9868	0.9720	Ave		0.9709			0.0000	4.8		15.0			
2-Methylnaphthalene	0.4405 0.5310	0.5425 0.5229	0.5533	0.5344	0.5162	Ave		0.5201			0.0000	7.1		15.0			
1-Methylnaphthalene	0.5799 0.5720	0.6359 0.5649	0.5884	0.6038	0.5766	Ave		0.5888			0.0000	4.1		15.0			
Acenaphthylene	1.8063 1.7961	1.7485 1.7517	1.7336	1.7759	1.7513	Ave		1.7662			0.0000	1.5		15.0			
Acenaphthene	0.8363 0.9749	1.0408 0.9370	0.9784	0.9922	0.9321	Ave		0.9559			0.0000	6.7		15.0			
Fluorene	1.2093 1.2053	1.1827 1.1841	1.2172	1.2123	1.2033	Ave		1.2020			0.0000	1.1		15.0			
Phenanthrene	1.1514 1.0704	1.1299 1.0364	1.1042	1.0910	1.0619	Ave		1.0922			0.0000	3.7		15.0			
Anthracene	1.1112 1.0910	1.1548 1.0728	1.1460	1.1218	1.0971	Ave		1.1135			0.0000	2.7		15.0			
Carbazole	0.9544 0.9635	0.9474 0.9325	0.9805	0.9504	0.9530	Ave		0.9545			0.0000	1.5		15.0			
Fluoranthene	1.0706 1.0987	1.0941 1.0549	1.0898	1.1074	1.0642	Ave		1.0828			0.0000	1.8		15.0			
Pyrene	1.4604 1.4486	1.4735 1.4287	1.4495	1.4522	1.3994	Ave		1.4446			0.0000	1.7		15.0			
Benzo[a]anthracene	1.8736 1.2185	1.3140 1.1887	1.2043	1.2254	1.1641	LinF		1.1943			0.0000				0.9996		0.9900
Chrysene	1.2214 1.1280	1.2208 1.1199	1.1854	1.1445	1.1290	Ave		1.1642			0.0000	3.8		15.0			
Benzo[b]fluoranthene	0.8835 1.1569	1.1859 1.1686	1.0690	1.1835	1.1674	Ave		1.1164			0.0000	9.9		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2 Analy Batch No.: 133924

SDG No.: 68087318-2

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

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.3342 1.1629	1.1471 1.0500	1.2419	1.1682	1.0664	Ave		1.1672			0.0000	8.4		15.0			
Benzo[a]pyrene	1.0378 1.0773	1.0634 1.0590	1.0649	1.0975	1.0213	Ave		1.0602			0.0000	2.4		15.0			
Indeno[1,2,3-cd]pyrene	0.7463 0.8627	0.8312 0.8416	0.8499	0.8359	0.8924	Ave		0.8371			0.0000	5.4		15.0			
Dibenz(a,h)anthracene	0.8535 0.8371	0.8458 0.8214	0.8193	0.8495	0.8317	Ave		0.8369			0.0000	1.6		15.0			
Benzo[g,h,i]perylene	0.8260 0.8801	0.8693 0.8717	0.8470	0.8981	0.8787	Ave		0.8673			0.0000	2.7		15.0			
o-Terphenyl	0.6160 0.5745	0.5755 0.5632	0.5719	0.5995	0.5679	Ave		0.5812			0.0000	3.3		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.: 680-87318-2 Analy Batch No.: 133924

SDG No.: 68087318-2

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

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133924/4	1AA30004.D
Level 2	IC 660-133924/5	1AA30005.D
Level 3	IC 660-133924/6	1AA30006.D
Level 4	IC 660-133924/7	1AA30007.D
Level 5	ICIS 660-133924/3	1AA30003.D
Level 6	IC 660-133924/8	1AA30008.D
Level 7	IC 660-133924/9	1AA30009.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	6607 931156	30367 1392262	157606	301178	659441	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	3349 492071	16848 735363	87583	163104	350225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	4409 530019	19749 794373	93134	184298	391143	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	8115 932857	32040 1380232	163466	310278	673599	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	3757 506350	19071 738267	92259	173347	358522	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	5433 626008	21671 932971	114770	211811	462830	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	7708 845549	30365 1235274	153087	280076	620739	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	7439 861847	31036 1278708	158879	287973	641280	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	6389 761082	25461 1111447	135929	243964	557093	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	7167 867897	29405 1257334	151084	284287	622099	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	7924 909822	32526 1318254	165790	301919	659745	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	10166 765266	29004 1096876	137745	254775	548828	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	6627 708484	26947 1033398	135587	237952	532301	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	4560 708379	25297 1080002	117636	238908	520719	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	6886 712080	24469 970372	136662	235819	475653	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2 Analy Batch No.: 133924

SDG No.: 68087318-2

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

Calibration Start Date: 01/30/2013 11:38 Calibration End Date: 01/30/2013 13:20 Calibration ID: 2712

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	5356 659672	22683 978664	117182	221540	455561	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	3852 528224	17731 777793	93523	168724	398038	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	4405 512548	18042 759088	90159	171475	370987	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	4263 538912	18543 805634	93202	181282	391957	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	4124 453816	15467 671289	79289	153886	331984	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30003.D
Lab Smp Id: ICIS-1489898
Inj Date : 30-JAN-2013 11:38
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.508	2.508	(1.000)	1356829	40.0000	
* 6 Acenaphthene-d10	164	3.539	3.539	(1.000)	769245	40.0000	
* 10 Phenanthrene-d10	188	4.501	4.501	(1.000)	1169097	40.0000	
$ 14 o-Terphenyl	230	4.779	4.779	(1.062)	331984	20.0000	19.5427
* 18 Chrysene-d12	240	6.536	6.536	(1.000)	942927	40.0000	
* 23 Perylene-d12	264	7.637	7.637	(1.000)	892108	40.0000	
2 Naphthalene	128	2.519	2.519	(1.004)	659441	20.0000	20.0234
3 2-Methylnaphthalene	141	2.925	2.925	(1.166)	350225	20.0000	19.8505
4 1-Methylnaphthalene	142	2.978	2.978	(1.187)	391143	20.0000	19.5846
5 Acenaphthylene	152	3.454	3.454	(0.976)	673599	20.0000	19.8314
7 Acenaphthene	154	3.555	3.555	(1.005)	358522	20.0000	19.5019
9 Fluorene	166	3.871	3.871	(1.094)	462830	20.0000	20.0218
11 Phenanthrene	178	4.517	4.517	(1.004)	620739	20.0000	19.4458
12 Anthracene	178	4.549	4.549	(1.011)	641280	20.0000	19.7039
13 Carbazole	167	4.704	4.704	(1.045)	557093	20.0000	19.9690
15 Fluoranthene	202	5.388	5.388	(1.197)	622099	20.0000	19.6567
16 Pyrene	202	5.559	5.559	(0.850)	659745	20.0000	19.3736
17 Benzo(a)anthracene	228	6.531	6.531	(0.999)	548828	20.0000	19.4934
19 Chrysene	228	6.558	6.558	(1.003)	532301	20.0000	19.3967
20 Benzo(b)fluoranthene	252	7.359	7.359	(0.964)	520719	20.0000	20.9132
21 Benzo(k)fluoranthene	252	7.380	7.380	(0.966)	475653	20.0000	18.2713
22 Benzo(a)pyrene	252	7.594	7.594	(0.994)	455561	20.0000	19.2671
24 Indeno(1,2,3-cd)pyrene	276	8.427	8.427	(1.104)	398038	20.0000	21.3193(M)
25 Dibenzo(a,h)anthracene	278	8.443	8.443	(1.106)	370987	20.0000	19.8762
26 Benzo(g,h,i)perylene	276	8.657	8.657	(1.134)	391957	20.0000	20.2641

QC Flag Legend

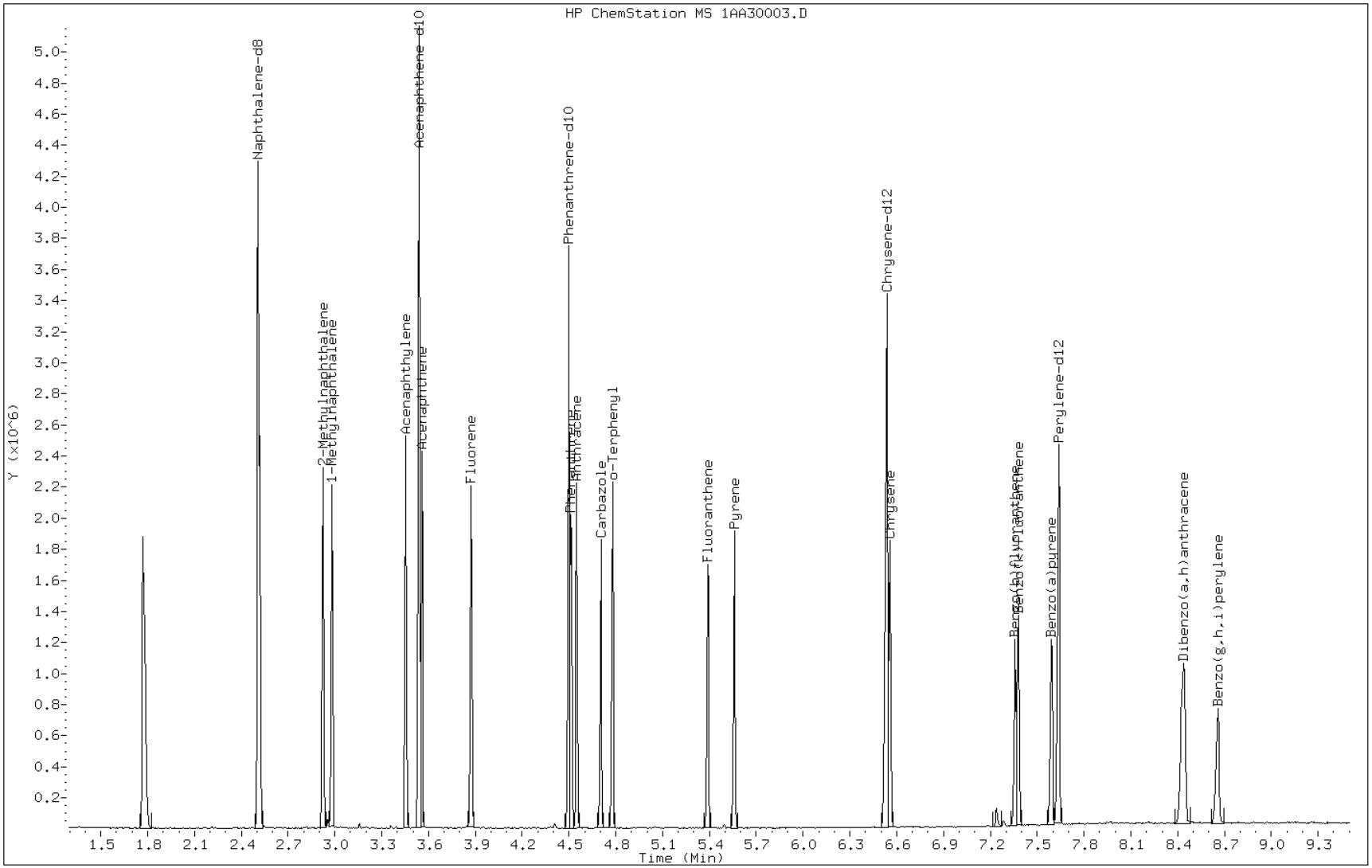
M - Compound response manually integrated.

Data File: 1AA30003.D

Date: 30-JAN-2013 11:38

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1AA30003.D
Inj. Date and Time: 30-JAN-2013 11:38
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

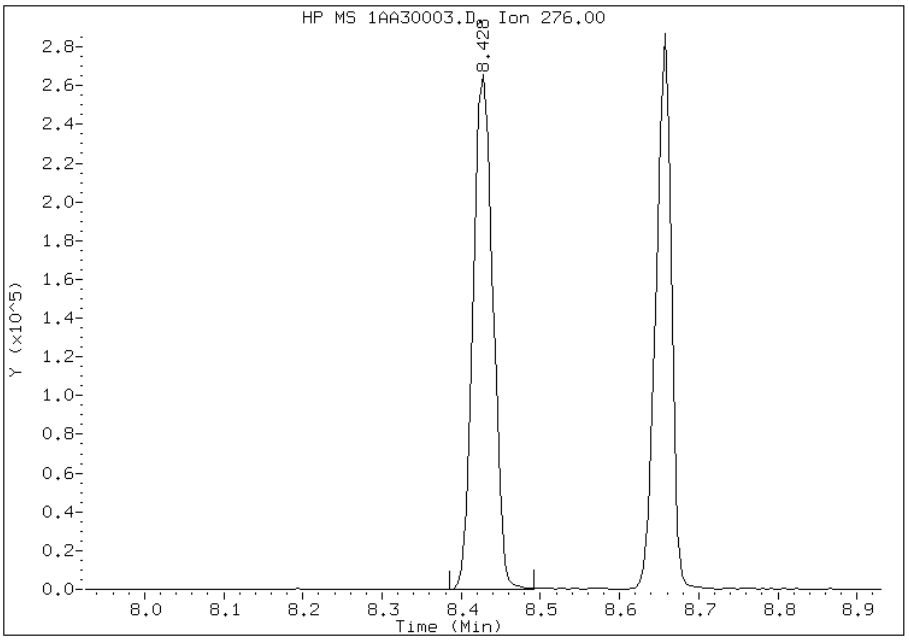
Processing Integration Results

RT: 8.43

Response: 458405

Amount: 22

Conc: 22



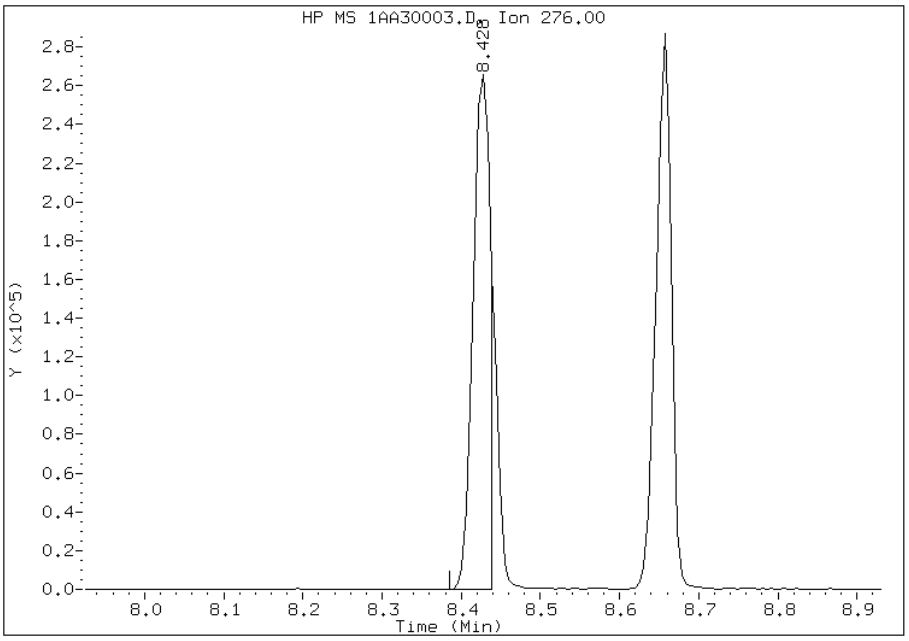
Manual Integration Results

RT: 8.43

Response: 398038

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 12:17
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30004.D
Lab Smp Id: IC-1489894
Inj Date : 30-JAN-2013 12:04
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 11:38 Cal File: 1AA30003.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.508	2.508	(1.000)	1520482	40.0000	
* 6 Acenaphthene-d10	164	3.539	3.539	(1.000)	898530	40.0000	
* 10 Phenanthrene-d10	188	4.501	4.501	(1.000)	1338880	40.0000	
$ 14 o-Terphenyl	230	4.779	4.779	(1.062)	4124	0.20000	0.2119
* 18 Chrysene-d12	240	6.536	6.536	(1.000)	1085169	40.0000	
* 23 Perylene-d12	264	7.647	7.637	(1.000)	1032233	40.0000	
2 Naphthalene	128	2.519	2.519	(1.004)	6607	0.20000	0.1790
3 2-Methylnaphthalene	141	2.925	2.925	(1.166)	3349	0.20000	0.1693
4 1-Methylnaphthalene	142	2.978	2.978	(1.187)	4409	0.20000	0.1969
5 Acenaphthylene	152	3.454	3.454	(0.976)	8115	0.20000	0.2045
7 Acenaphthene	154	3.555	3.555	(1.005)	3757	0.20000	0.1749
9 Fluorene	166	3.870	3.871	(1.094)	5433	0.20000	0.2012
11 Phenanthrene	178	4.512	4.517	(1.002)	7708	0.20000	0.2108(M)
12 Anthracene	178	4.549	4.549	(1.011)	7439	0.20000	0.1995
13 Carbazole	167	4.704	4.704	(1.045)	6389	0.20000	0.1999
15 Fluoranthene	202	5.388	5.388	(1.197)	7167	0.20000	0.1977
16 Pyrene	202	5.559	5.559	(0.850)	7924	0.20000	0.2021
17 Benzo(a)anthracene	228	6.531	6.531	(0.999)	10166	0.20000	0.3137
19 Chrysene	228	6.552	6.558	(1.002)	6627	0.20000	0.2098
20 Benzo(b)fluoranthene	252	7.359	7.359	(0.962)	4560	0.20000	0.1582(H)
21 Benzo(k)fluoranthene	252	7.375	7.380	(0.964)	6886	0.20000	0.2286
22 Benzo(a)pyrene	252	7.594	7.594	(0.993)	5356	0.20000	0.1957
24 Indeno(1,2,3-cd)pyrene	276	8.433	8.427	(1.103)	3852	0.20000	0.1783(M)
25 Dibenzo(a,h)anthracene	278	8.443	8.443	(1.104)	4405	0.20000	0.2039
26 Benzo(g,h,i)perylene	276	8.657	8.657	(1.132)	4263	0.20000	0.1904

QC Flag Legend

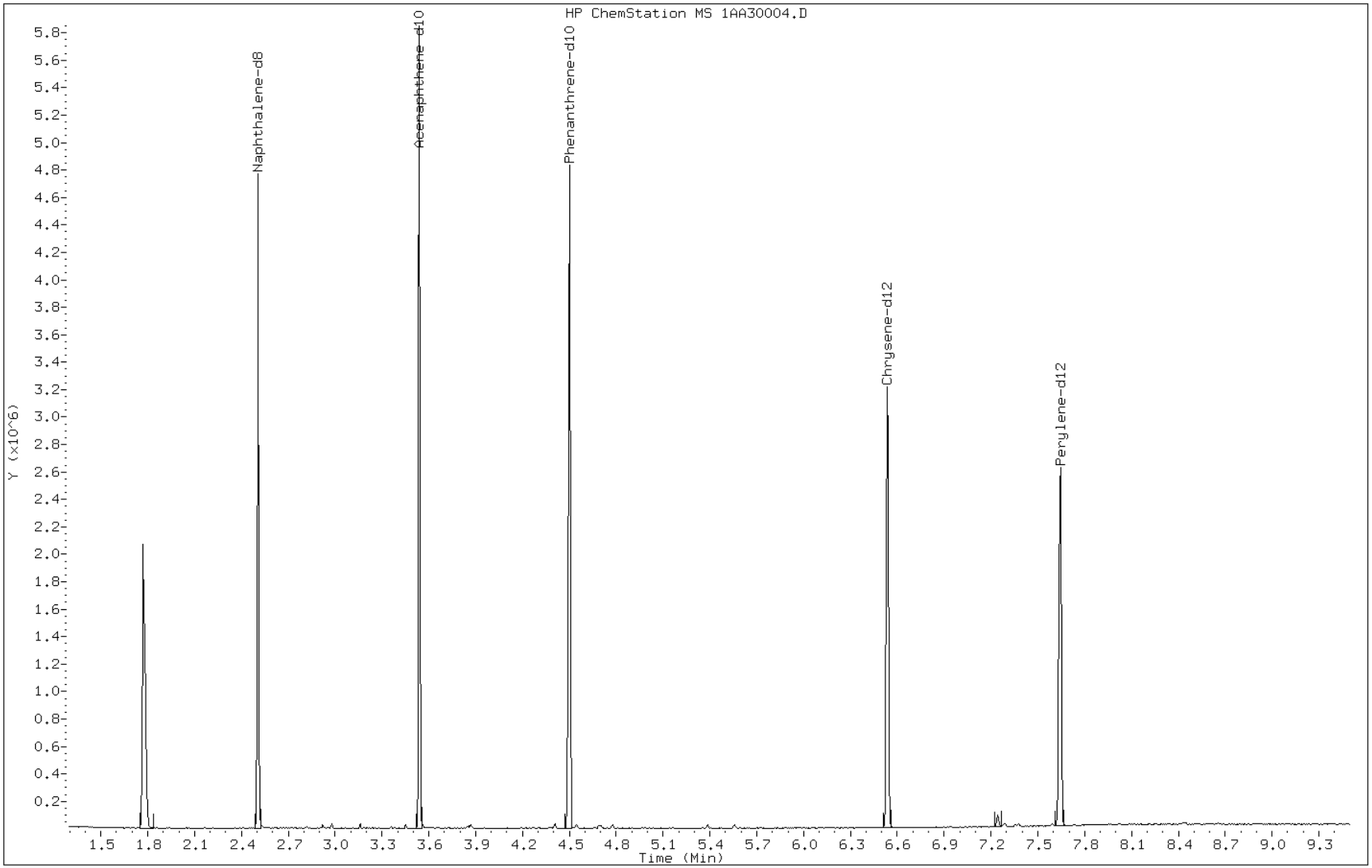
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AA30004.D

Date: 30-JAN-2013 12:04

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1AA30004.D
Inj. Date and Time: 30-JAN-2013 12:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 11 Phenanthrene
CAS #: 85-01-8
Report Date: 01/30/2013

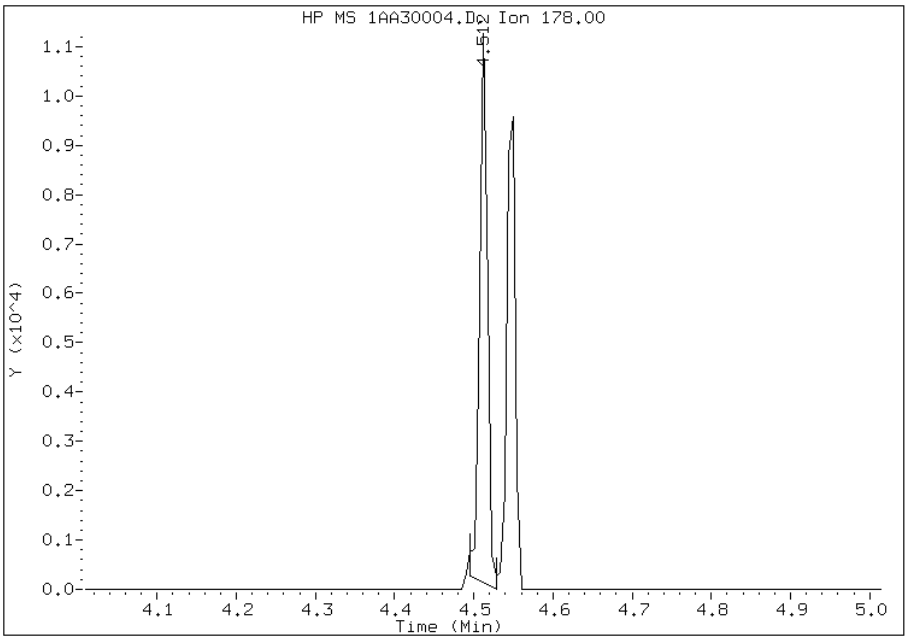
Processing Integration Results

RT: 4.51

Response: 7417

Amount: 0

Conc: 0



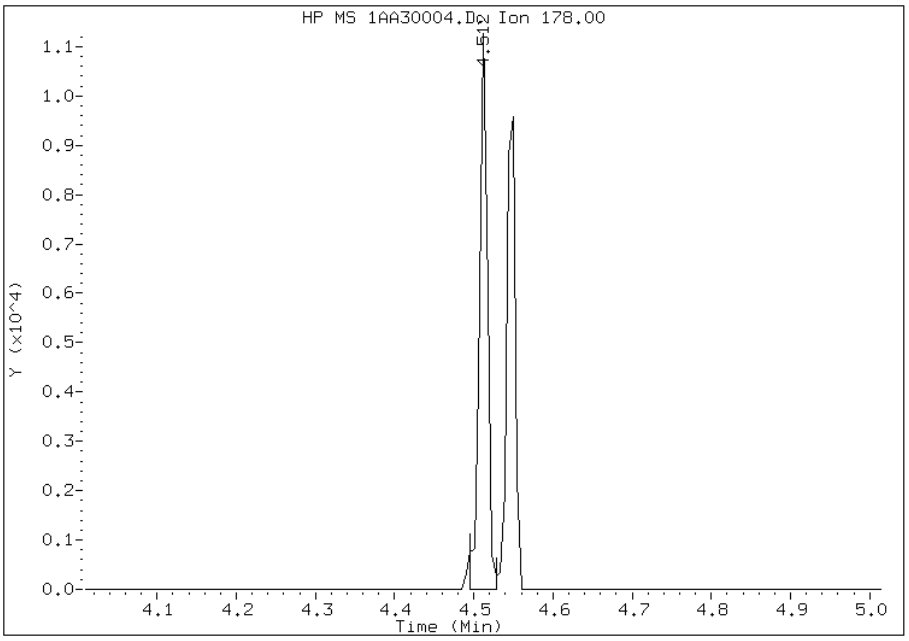
Manual Integration Results

RT: 4.51

Response: 7708

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AA30004.D
Inj. Date and Time: 30-JAN-2013 12:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

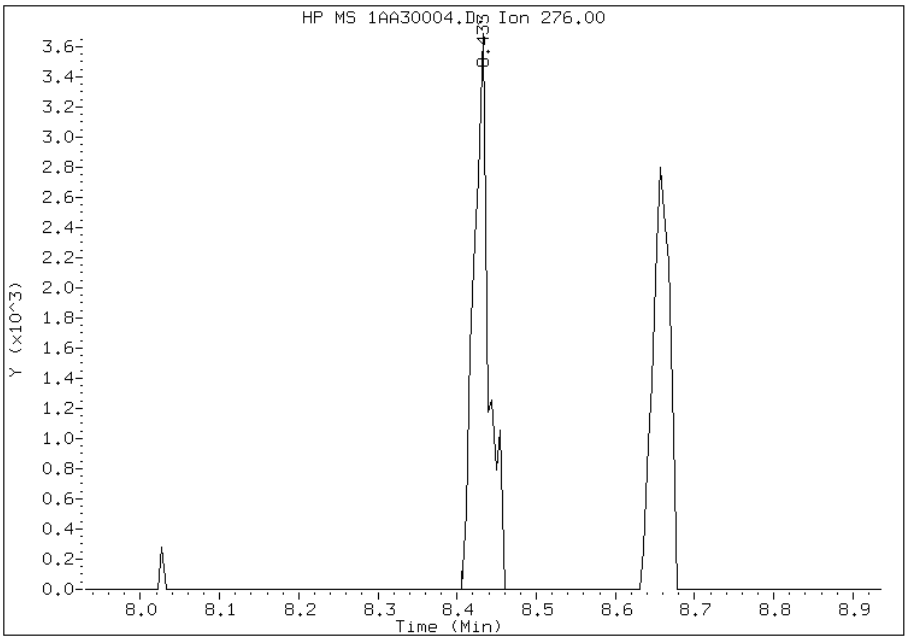
Processing Integration Results

RT: 8.43

Response: 4847

Amount: 0

Conc: 0



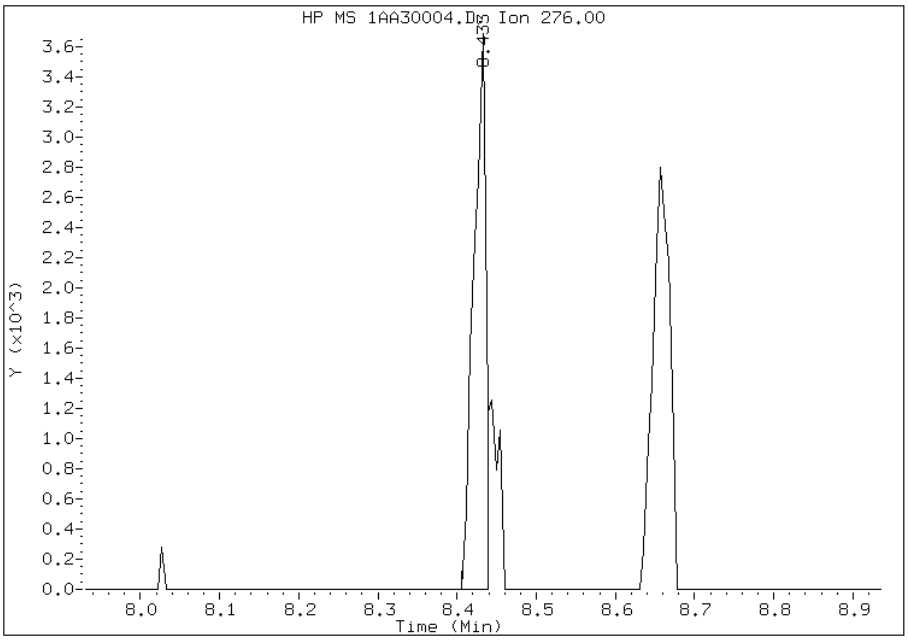
Manual Integration Results

RT: 8.43

Response: 3852

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:28
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30005.D
Lab Smp Id: IC-1489895
Inj Date : 30-JAN-2013 12:19
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:04 Cal File: 1AA30004.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.505	2.508	(1.000)	1242193	40.0000	
* 6 Acenaphthene-d10	164	3.536	3.539	(1.000)	732960	40.0000	
* 10 Phenanthrene-d10	188	4.498	4.501	(1.000)	1075002	40.0000	
$ 14 o-Terphenyl	230	4.776	4.779	(1.062)	15467	1.00000	0.9901
* 18 Chrysene-d12	240	6.533	6.536	(1.000)	882947	40.0000	
* 23 Perylene-d12	264	7.634	7.637	(1.000)	853244	40.0000	
2 Naphthalene	128	2.516	2.519	(1.004)	30367	1.00000	1.0071
3 2-Methylnaphthalene	141	2.922	2.925	(1.166)	16848	1.00000	1.0430
4 1-Methylnaphthalene	142	2.976	2.978	(1.188)	19749	1.00000	1.0800
5 Acenaphthylene	152	3.451	3.454	(0.976)	32040	1.00000	0.9899
7 Acenaphthene	154	3.552	3.555	(1.005)	19071	1.00000	1.0887
9 Fluorene	166	3.868	3.871	(1.094)	21671	1.00000	0.9838
11 Phenanthrene	178	4.509	4.517	(1.002)	30365	1.00000	1.0345
12 Anthracene	178	4.546	4.549	(1.011)	31036	1.00000	1.0370
13 Carbazole	167	4.701	4.704	(1.045)	25461	1.00000	0.9925
15 Fluoranthene	202	5.385	5.388	(1.197)	29405	1.00000	1.0104
16 Pyrene	202	5.556	5.559	(0.850)	32526	1.00000	1.0200
17 Benzo(a)anthracene	228	6.523	6.531	(0.998)	29004	1.00000	1.1001
19 Chrysene	228	6.549	6.558	(1.002)	26947	1.00000	1.0486
20 Benzo(b)fluoranthene	252	7.351	7.359	(0.963)	25297	1.00000	1.0622
21 Benzo(k)fluoranthene	252	7.372	7.380	(0.966)	24469	1.00000	0.9827
22 Benzo(a)pyrene	252	7.586	7.594	(0.994)	22683	1.00000	1.0030
24 Indeno(1,2,3-cd)pyrene	276	8.408	8.427	(1.101)	17731	1.00000	0.9929(M)
25 Dibenzo(a,h)anthracene	278	8.425	8.443	(1.104)	18042	1.00000	1.0106
26 Benzo(g,h,i)perylene	276	8.638	8.657	(1.132)	18543	1.00000	1.0023

QC Flag Legend

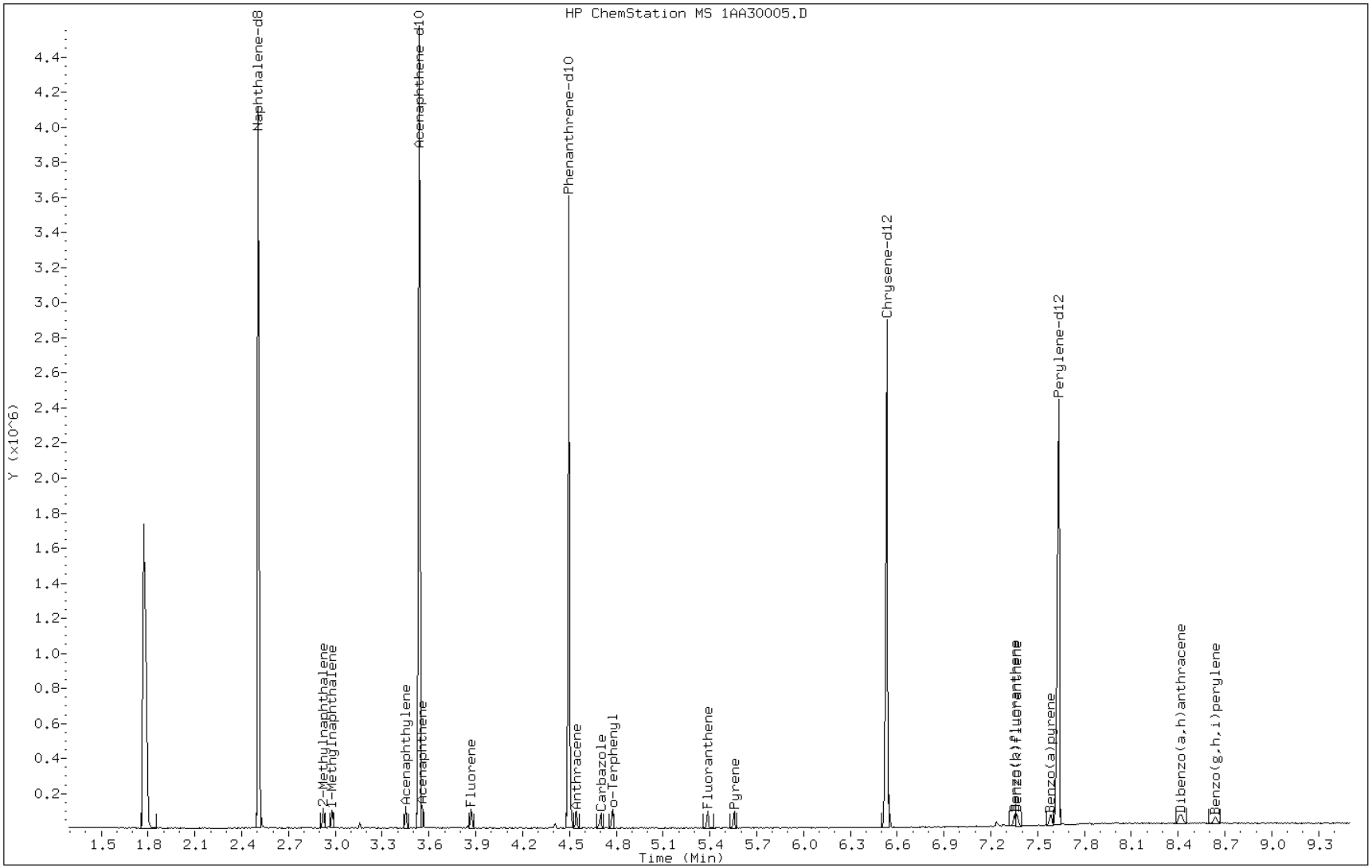
M - Compound response manually integrated.

Data File: 1AA30005.D

Date: 30-JAN-2013 12:19

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1AA30005.D
Inj. Date and Time: 30-JAN-2013 12:19
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

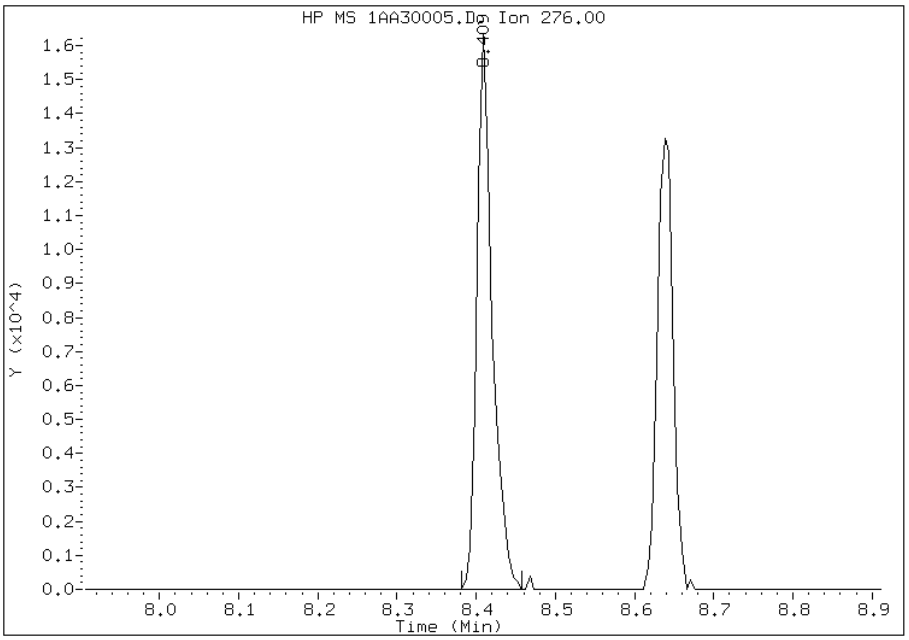
Processing Integration Results

RT: 8.41

Response: 21625

Amount: 1

Conc: 1



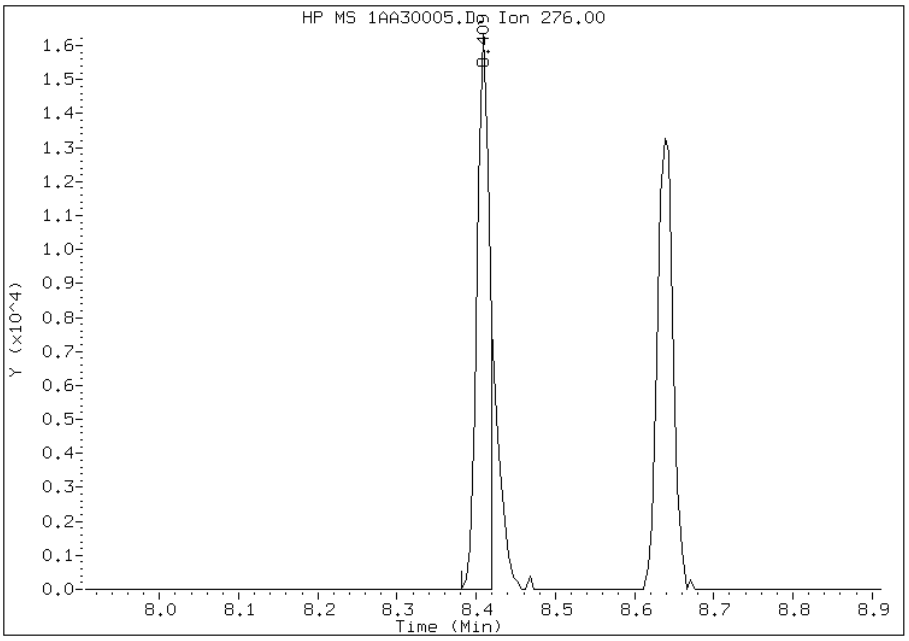
Manual Integration Results

RT: 8.41

Response: 17731

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30006.D
Lab Smp Id: IC-1489896
Inj Date : 30-JAN-2013 12:34
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:19 Cal File: 1AA30005.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.509	2.508	(1.000)	1266331	40.0000	
* 6 Acenaphthene-d10	164	3.540	3.539	(1.000)	754333	40.0000	
* 10 Phenanthrene-d10	188	4.496	4.501	(1.000)	1109110	40.0000	
$ 14 o-Terphenyl	230	4.774	4.779	(1.062)	79289	5.00000	4.9199
* 18 Chrysene-d12	240	6.532	6.536	(1.000)	915040	40.0000	
* 23 Perylene-d12	264	7.632	7.637	(1.000)	880349	40.0000	
2 Naphthalene	128	2.520	2.519	(1.004)	157606	5.00000	5.1275
3 2-Methylnaphthalene	141	2.920	2.925	(1.164)	87583	5.00000	5.3189
4 1-Methylnaphthalene	142	2.979	2.978	(1.187)	93134	5.00000	4.9965
5 Acenaphthylene	152	3.455	3.454	(0.976)	163466	5.00000	4.9077
7 Acenaphthene	154	3.556	3.555	(1.005)	92259	5.00000	5.1176
9 Fluorene	166	3.871	3.871	(1.094)	114770	5.00000	5.0630
11 Phenanthrene	178	4.512	4.517	(1.004)	153087	5.00000	5.0551
12 Anthracene	178	4.544	4.549	(1.011)	158879	5.00000	5.1457
13 Carbazole	167	4.699	4.704	(1.045)	135929	5.00000	5.1359
15 Fluoranthene	202	5.383	5.388	(1.197)	151084	5.00000	5.0320
16 Pyrene	202	5.554	5.559	(0.850)	165790	5.00000	5.0168
17 Benzo(a)anthracene	228	6.526	6.531	(0.999)	137745	5.00000	5.0415
19 Chrysene	228	6.553	6.558	(1.003)	135587	5.00000	5.0912
20 Benzo(b)fluoranthene	252	7.354	7.359	(0.964)	117636	5.00000	4.7876
21 Benzo(k)fluoranthene	252	7.370	7.380	(0.966)	136662	5.00000	5.3197
22 Benzo(a)pyrene	252	7.584	7.594	(0.994)	117182	5.00000	5.0222
24 Indeno(1,2,3-cd)pyrene	276	8.412	8.427	(1.102)	93523	5.00000	5.0760(M)
25 Dibenzo(a,h)anthracene	278	8.428	8.443	(1.104)	90159	5.00000	4.8949
26 Benzo(g,h,i)perylene	276	8.642	8.657	(1.132)	93202	5.00000	4.8828

QC Flag Legend

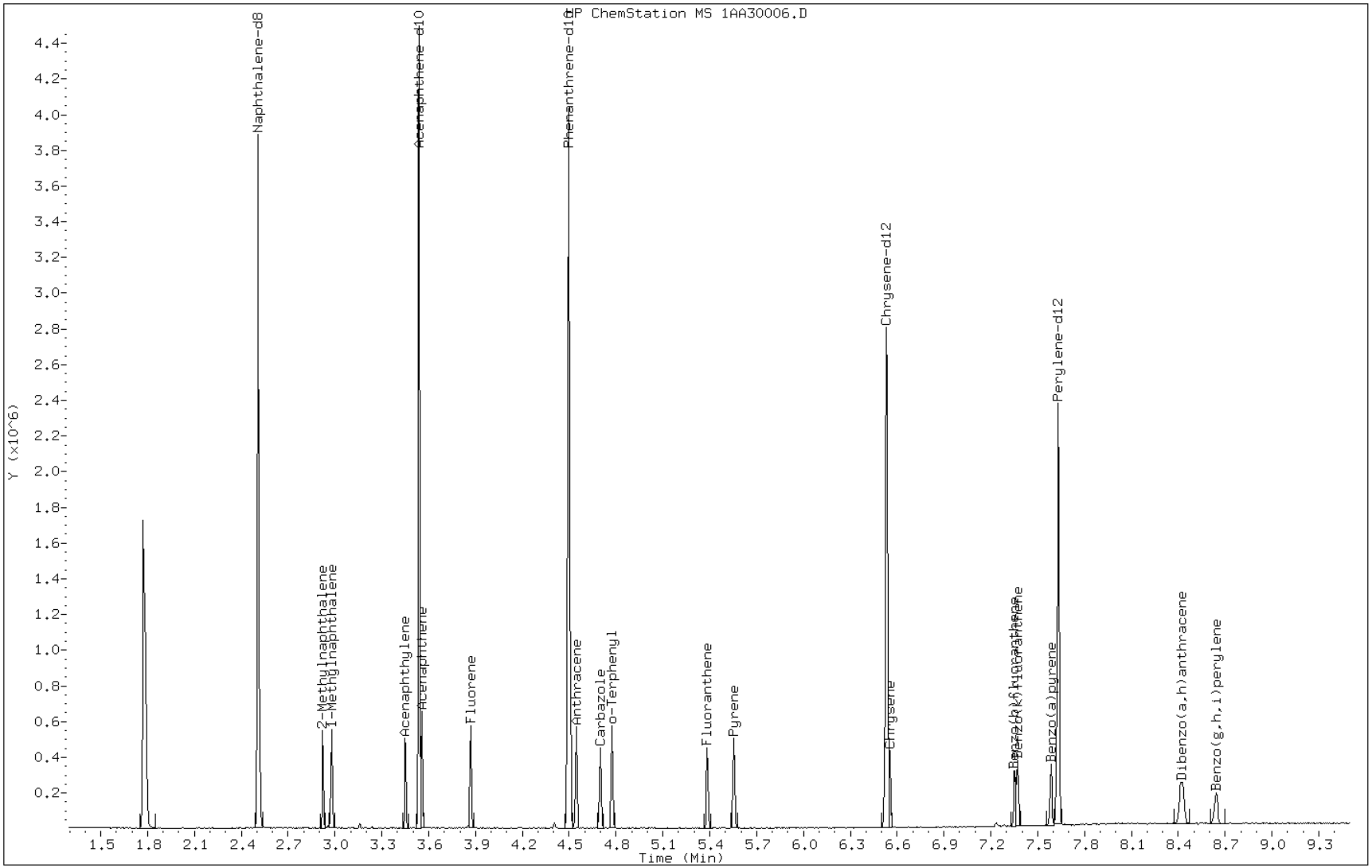
M - Compound response manually integrated.

Data File: 1AA30006.D

Date: 30-JAN-2013 12:34

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489896 Operator: SCC



Manual Integration Report

Data File: 1AA30006.D
Inj. Date and Time: 30-JAN-2013 12:34
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

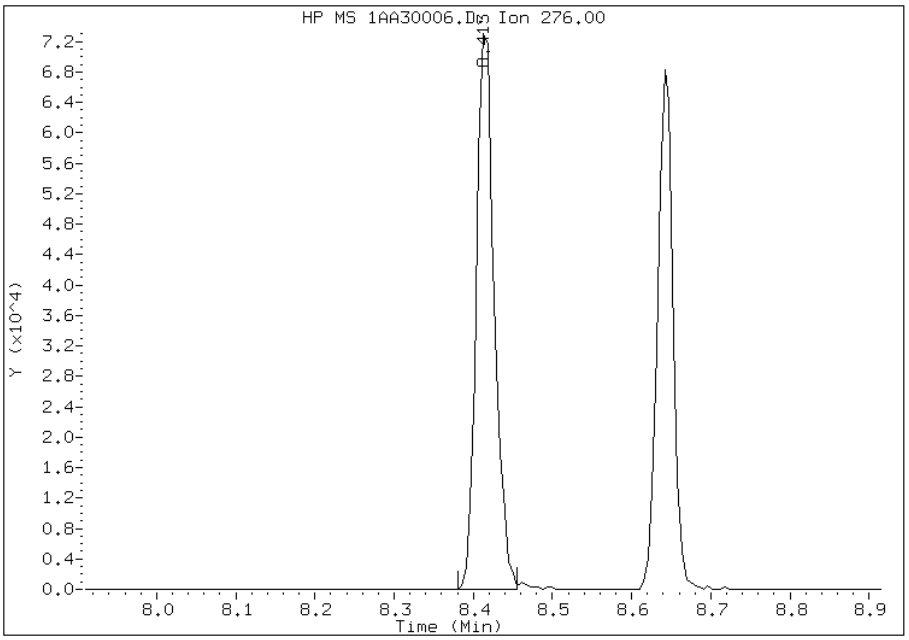
Processing Integration Results

RT: 8.41

Response: 113911

Amount: 5

Conc: 5



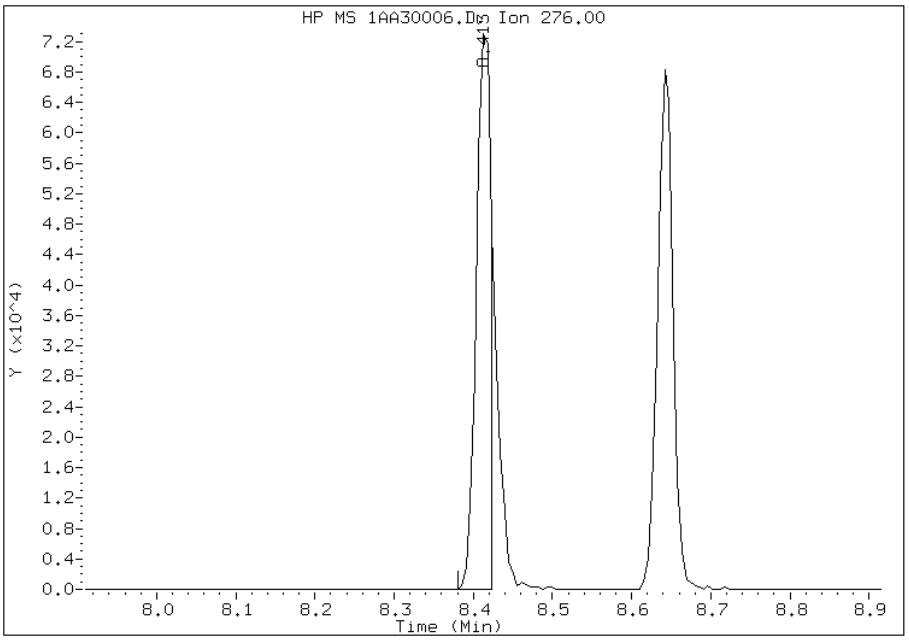
Manual Integration Results

RT: 8.41

Response: 93523

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:29
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30007.D
Lab Smp Id: IC-1489897
Inj Date : 30-JAN-2013 12:49
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:34 Cal File: 1AA30006.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.506	2.508	(1.000)	1220847	40.0000	
* 6 Acenaphthene-d10	164	3.537	3.539	(1.000)	698867	40.0000	
* 10 Phenanthrene-d10	188	4.499	4.501	(1.000)	1026818	40.0000	
$ 14 o-Terphenyl	230	4.777	4.779	(1.062)	153886	10.0000	10.3139
* 18 Chrysene-d12	240	6.534	6.536	(1.000)	831641	40.0000	
* 23 Perylene-d12	264	7.635	7.637	(1.000)	807429	40.0000	
2 Naphthalene	128	2.517	2.519	(1.004)	301178	10.0000	10.1636
3 2-Methylnaphthalene	141	2.923	2.925	(1.166)	163104	10.0000	10.2743
4 1-Methylnaphthalene	142	2.976	2.978	(1.188)	184298	10.0000	10.2556
5 Acenaphthylene	152	3.452	3.454	(0.976)	310278	10.0000	10.0548
7 Acenaphthene	154	3.553	3.555	(1.005)	173347	10.0000	10.3788
9 Fluorene	166	3.868	3.871	(1.094)	211811	10.0000	10.0855
11 Phenanthrene	178	4.510	4.517	(1.002)	280076	10.0000	9.9896
12 Anthracene	178	4.547	4.549	(1.011)	287973	10.0000	10.0743
13 Carbazole	167	4.702	4.704	(1.045)	243964	10.0000	9.9566
15 Fluoranthene	202	5.386	5.388	(1.197)	284287	10.0000	10.2274
16 Pyrene	202	5.557	5.559	(0.850)	301919	10.0000	10.0523
17 Benzo(a)anthracene	228	6.524	6.531	(0.998)	254775	10.0000	10.2600
19 Chrysene	228	6.550	6.558	(1.002)	237952	10.0000	9.8311
20 Benzo(b)fluoranthene	252	7.352	7.359	(0.963)	238908	10.0000	10.6013
21 Benzo(k)fluoranthene	252	7.373	7.380	(0.966)	235819	10.0000	10.0085
22 Benzo(a)pyrene	252	7.581	7.594	(0.993)	221540	10.0000	10.3523
24 Indeno(1,2,3-cd)pyrene	276	8.415	8.427	(1.102)	168724	10.0000	9.9847(M)
25 Dibenzo(a,h)anthracene	278	8.425	8.443	(1.104)	171475	10.0000	10.1505
26 Benzo(g,h,i)perylene	276	8.644	8.657	(1.132)	181282	10.0000	10.3551

QC Flag Legend

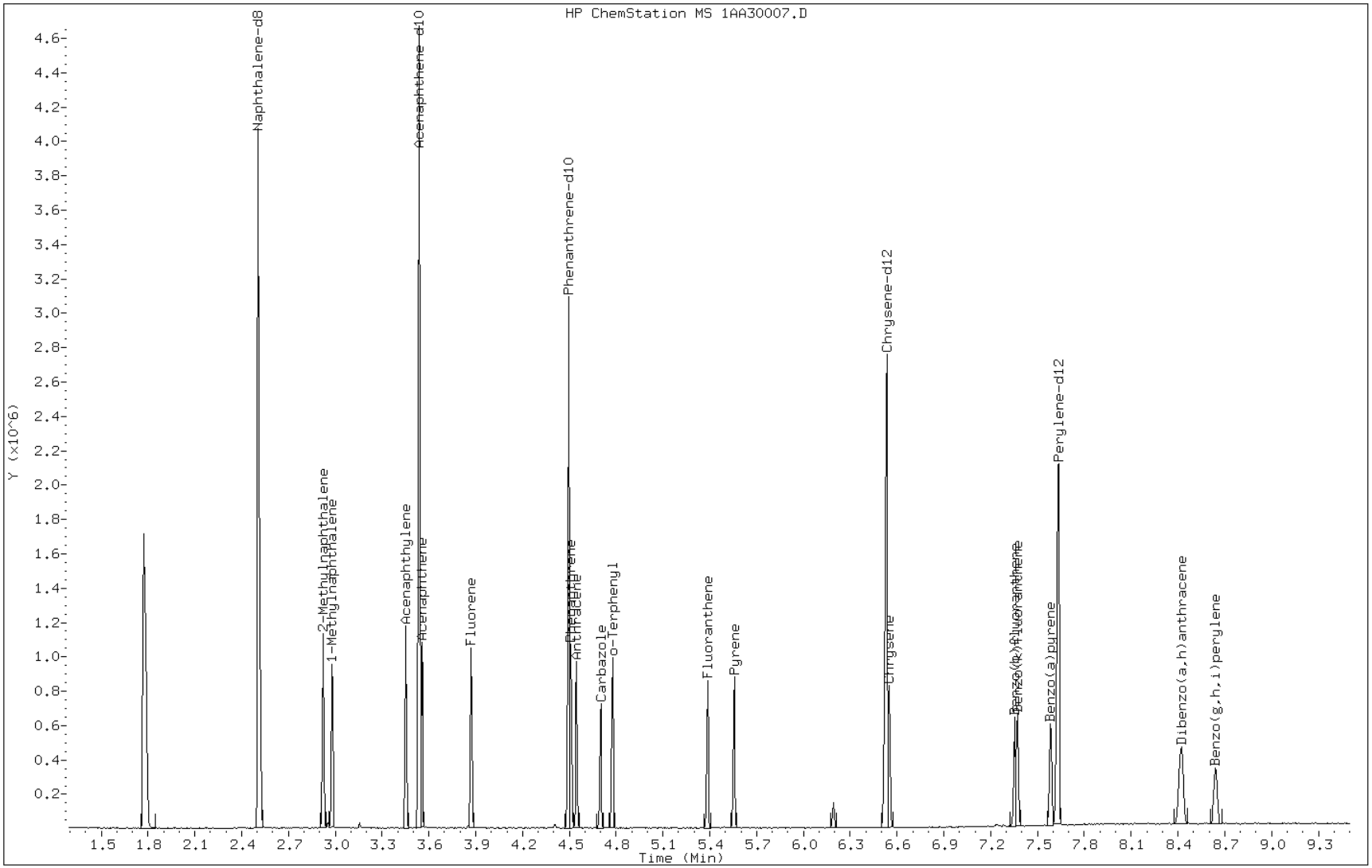
M - Compound response manually integrated.

Data File: 1AA30007.D

Date: 30-JAN-2013 12:49

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1AA30007.D
Inj. Date and Time: 30-JAN-2013 12:49
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

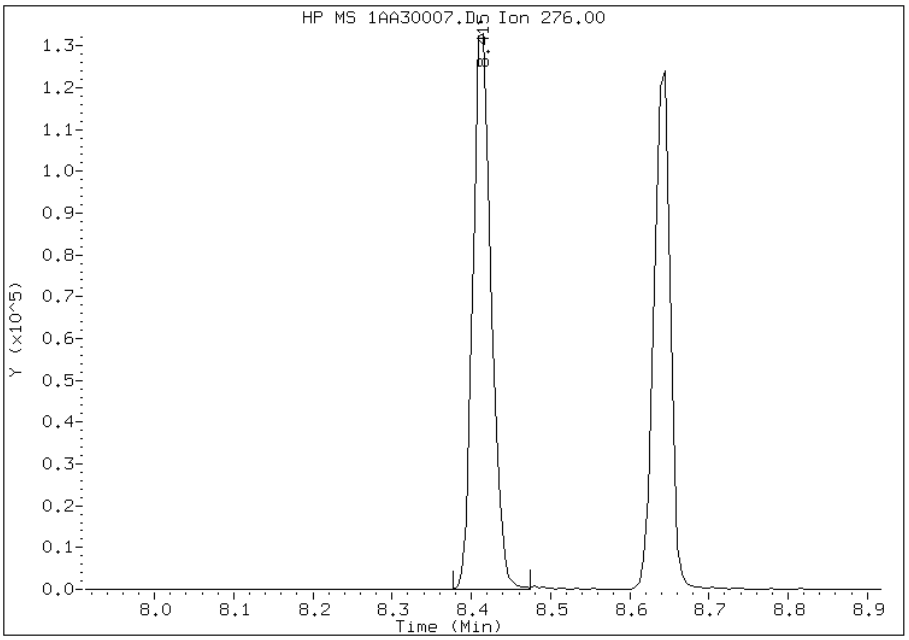
Processing Integration Results

RT: 8.42

Response: 213637

Amount: 11

Conc: 11



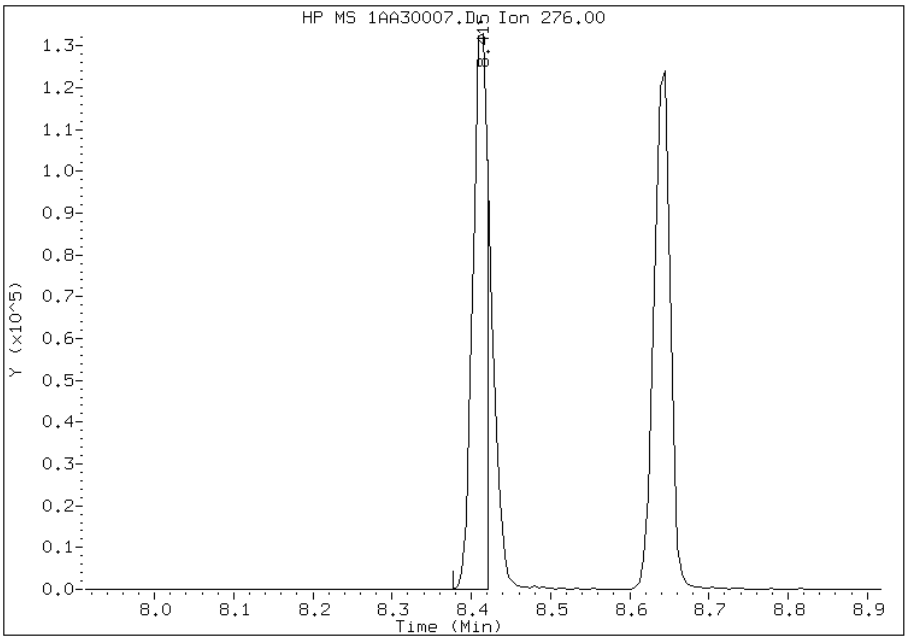
Manual Integration Results

RT: 8.42

Response: 168724

Amount: 10

Conc: 10



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30008.D
Lab Smp Id: IC-1489899
Inj Date : 30-JAN-2013 13:04
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 12:49 Cal File: 1AA30007.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.506	2.508	(1.000)	1235536	40.0000	
* 6 Acenaphthene-d10	164	3.537	3.539	(1.000)	692518	40.0000	
* 10 Phenanthrene-d10	188	4.498	4.501	(1.000)	1053254	40.0000	
$ 14 o-Terphenyl	230	4.776	4.779	(1.062)	453816	30.0000	29.6527
* 18 Chrysene-d12	240	6.539	6.536	(1.000)	837416	40.0000	
* 23 Perylene-d12	264	7.634	7.637	(1.000)	816422	40.0000	
2 Naphthalene	128	2.522	2.519	(1.006)	931156	30.0000	31.0495
3 2-Methylnaphthalene	141	2.922	2.925	(1.166)	492071	30.0000	30.6282
4 1-Methylnaphthalene	142	2.981	2.978	(1.190)	530019	30.0000	29.1434
5 Acenaphthylene	152	3.456	3.454	(0.977)	932857	30.0000	30.5072
7 Acenaphthene	154	3.558	3.555	(1.006)	506350	30.0000	30.5946
9 Fluorene	166	3.873	3.871	(1.095)	626008	30.0000	30.0812
11 Phenanthrene	178	4.514	4.517	(1.004)	845549	30.0000	29.4018
12 Anthracene	178	4.546	4.549	(1.011)	861847	30.0000	29.3936
13 Carbazole	167	4.701	4.704	(1.045)	761082	30.0000	30.2815
15 Fluoranthene	202	5.390	5.388	(1.198)	867897	30.0000	30.4395
16 Pyrene	202	5.556	5.559	(0.850)	909822	30.0000	30.0834
17 Benzo(a)anthracene	228	6.528	6.531	(0.998)	765266	30.0000	30.6056
19 Chrysene	228	6.555	6.558	(1.002)	708484	30.0000	29.0695
20 Benzo(b)fluoranthene	252	7.356	7.359	(0.964)	708379	30.0000	31.0876
21 Benzo(k)fluoranthene	252	7.378	7.380	(0.966)	712080	30.0000	29.8890
22 Benzo(a)pyrene	252	7.591	7.594	(0.994)	659672	30.0000	30.4861
24 Indeno(1,2,3-cd)pyrene	276	8.419	8.427	(1.103)	528224	30.0000	30.9150(M)
25 Dibenzo(a,h)anthracene	278	8.435	8.443	(1.105)	512548	30.0000	30.0062
26 Benzo(g,h,i)perylene	276	8.654	8.657	(1.134)	538912	30.0000	30.4446

QC Flag Legend

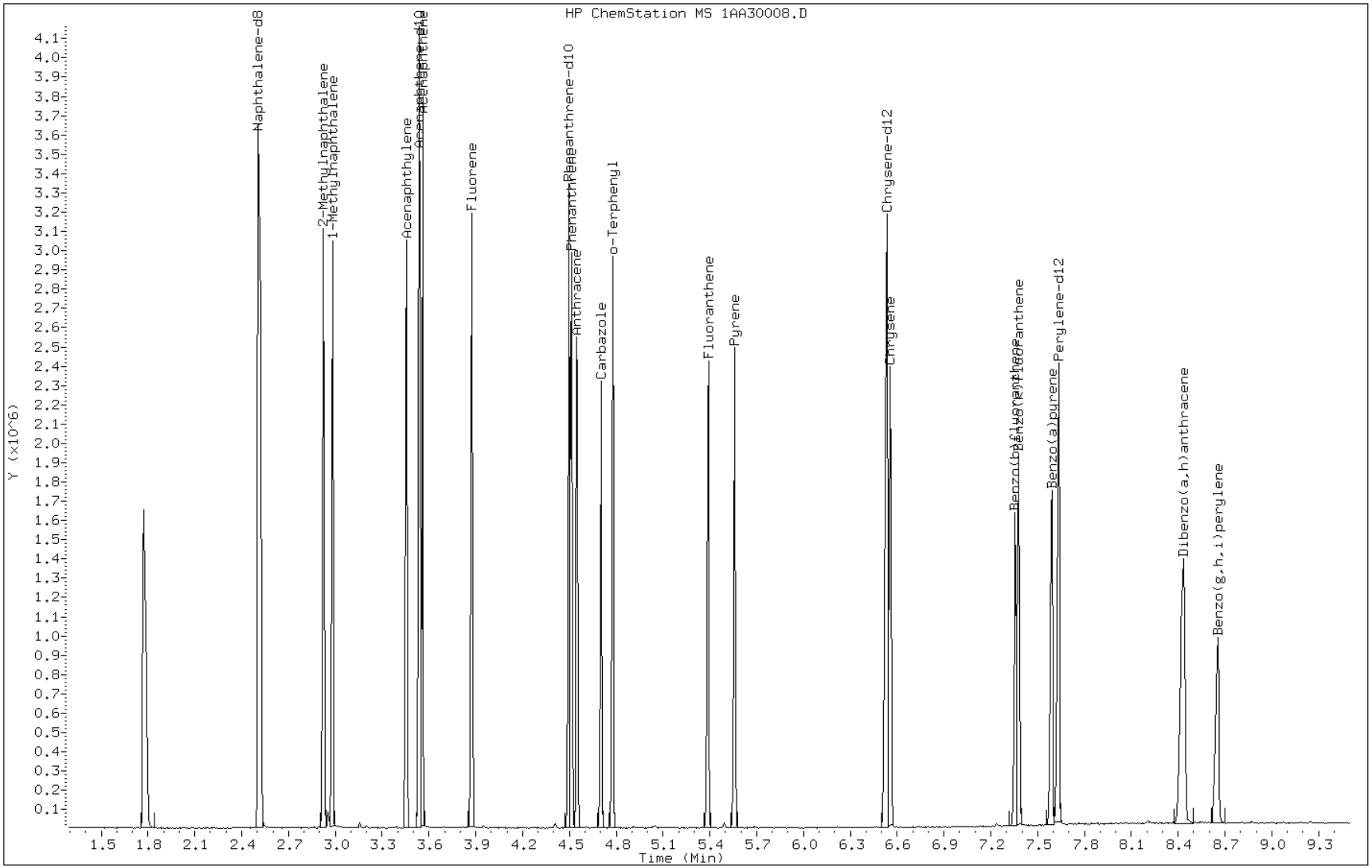
M - Compound response manually integrated.

Data File: 1AA30008.D

Date: 30-JAN-2013 13:04

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489899 Operator: SCC



Manual Integration Report

Data File: 1AA30008.D
Inj. Date and Time: 30-JAN-2013 13:04
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

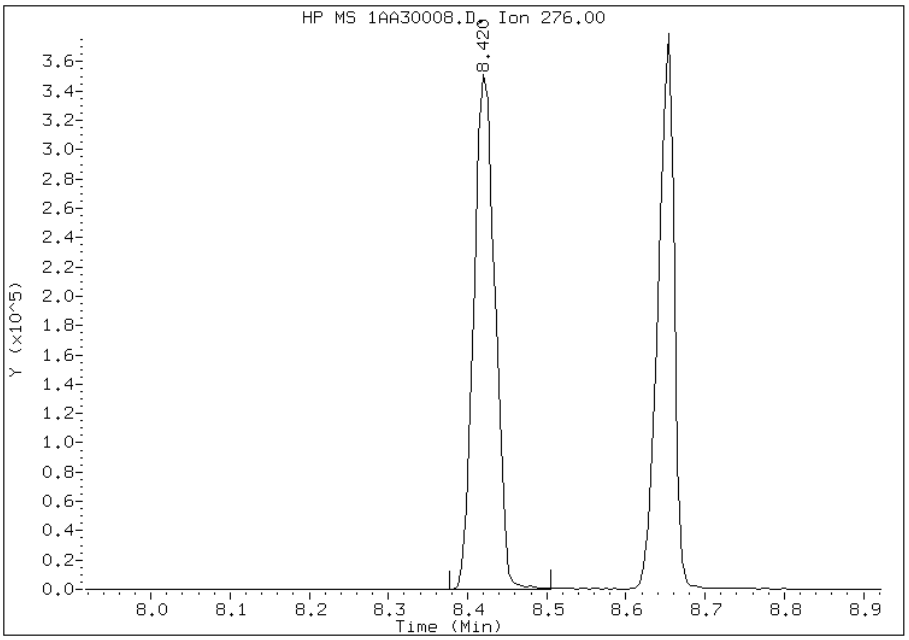
Processing Integration Results

RT: 8.42

Response: 649974

Amount: 32

Conc: 32



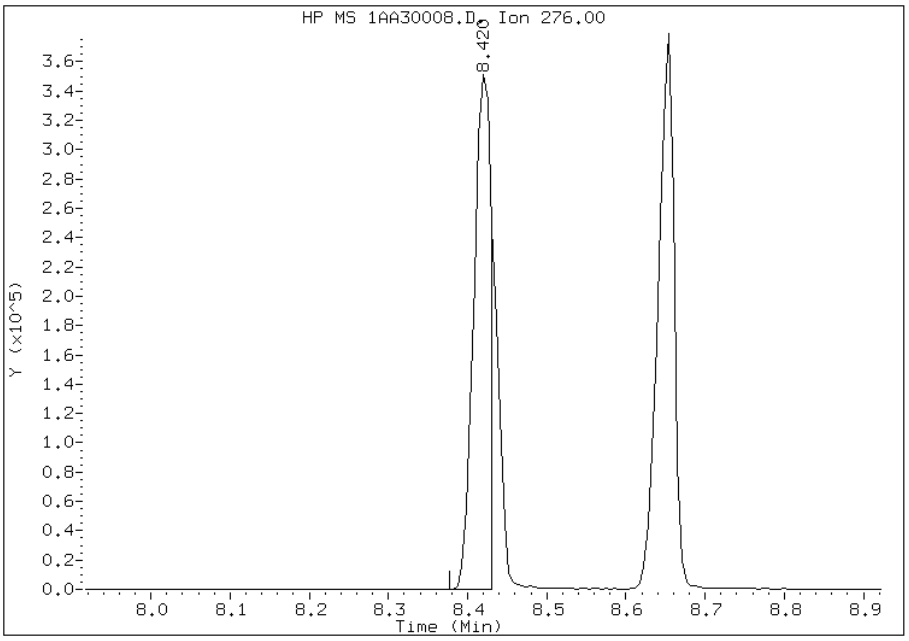
Manual Integration Results

RT: 8.42

Response: 528224

Amount: 31

Conc: 31



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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30009.D
Lab Smp Id: IC-1489900
Inj Date : 30-JAN-2013 13:20
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:33 BSMA5973.i Quant Type: ISTD
Cal Date : 30-JAN-2013 13:04 Cal File: 1AA30008.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)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.510	2.508	(1.000)	1125072	40.0000	
* 6 Acenaphthene-d10	164	3.541	3.539	(1.000)	630343	40.0000	
* 10 Phenanthrene-d10	188	4.497	4.501	(1.000)	953549	40.0000	
$ 14 o-Terphenyl	230	4.781	4.779	(1.063)	671289	50.0000	48.4490
* 18 Chrysene-d12	240	6.538	6.536	(1.000)	738179	40.0000	
* 23 Perylene-d12	264	7.633	7.637	(1.000)	739344	40.0000	
2 Naphthalene	128	2.521	2.519	(1.004)	1392262	50.0000	50.9834(A)
3 2-Methylnaphthalene	141	2.927	2.925	(1.166)	735363	50.0000	50.2656(A)
4 1-Methylnaphthalene	142	2.980	2.978	(1.187)	794373	50.0000	47.9677
5 Acenaphthylene	152	3.456	3.454	(0.976)	1380232	50.0000	49.5899
7 Acenaphthene	154	3.557	3.555	(1.005)	738267	50.0000	49.0074
9 Fluorene	166	3.872	3.871	(1.094)	932971	50.0000	49.2537
11 Phenanthrene	178	4.514	4.517	(1.004)	1235274	50.0000	47.4449
12 Anthracene	178	4.551	4.549	(1.012)	1278708	50.0000	48.1709
13 Carbazole	167	4.706	4.704	(1.046)	1111447	50.0000	48.8456
15 Fluoranthene	202	5.390	5.388	(1.198)	1257334	50.0000	48.7092
16 Pyrene	202	5.561	5.559	(0.850)	1318254	50.0000	49.4481
17 Benzo(a)anthracene	228	6.527	6.531	(0.998)	1096876	50.0000	49.7652
19 Chrysene	228	6.560	6.558	(1.003)	1033398	50.0000	48.1011
20 Benzo(b)fluoranthene	252	7.361	7.359	(0.964)	1080002	50.0000	52.3376(A)
21 Benzo(k)fluoranthene	252	7.382	7.380	(0.967)	970372	50.0000	44.9769
22 Benzo(a)pyrene	252	7.591	7.594	(0.994)	978664	50.0000	49.9431
24 Indeno(1,2,3-cd)pyrene	276	8.424	8.427	(1.104)	777793	50.0000	50.2670(AM)
25 Dibenzo(a,h)anthracene	278	8.440	8.443	(1.106)	759088	50.0000	49.0724
26 Benzo(g,h,i)perylene	276	8.664	8.657	(1.135)	805634	50.0000	50.2572(A)

QC Flag Legend

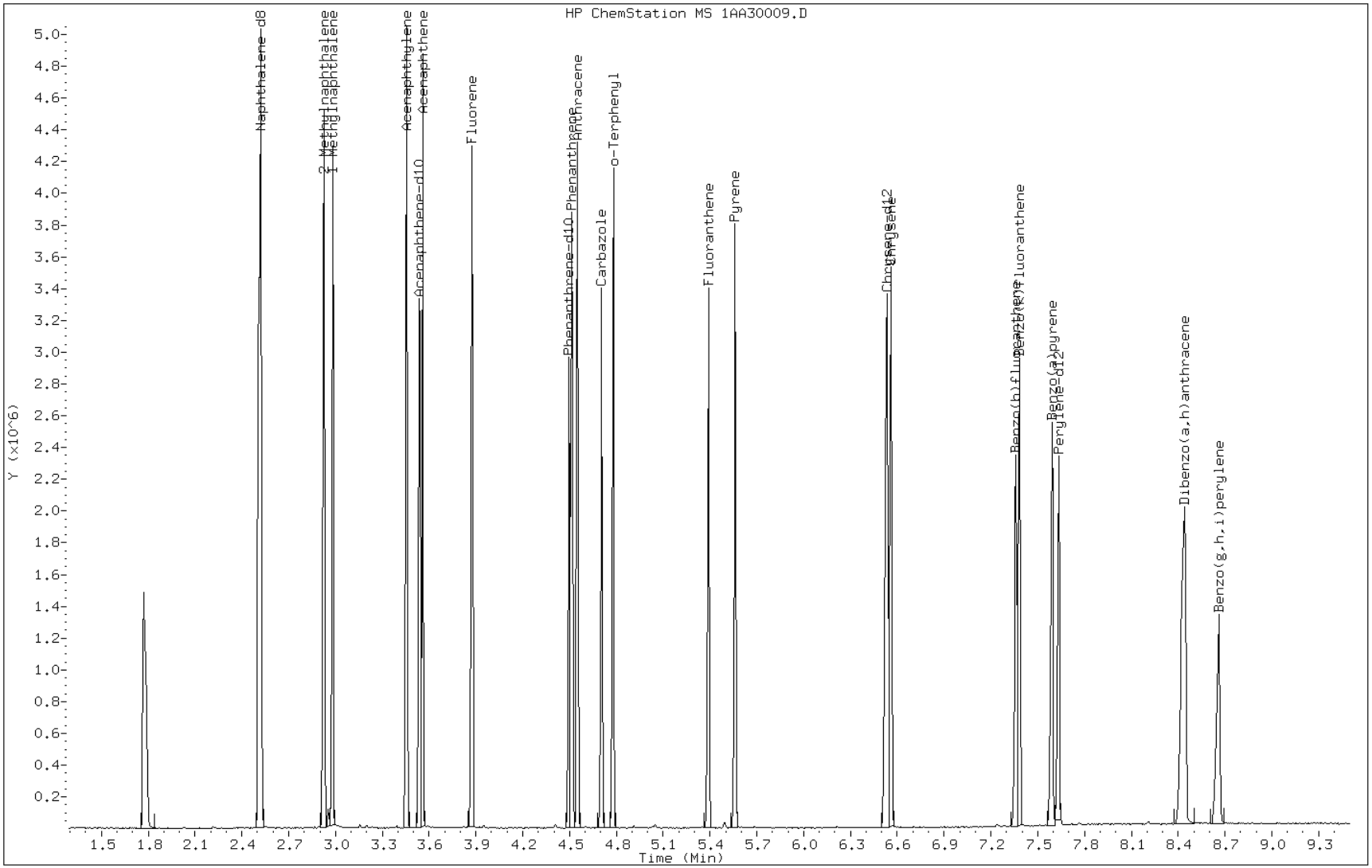
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1AA30009.D

Date: 30-JAN-2013 13:20

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1489900 Operator: SCC



Manual Integration Report

Data File: 1AA30009.D
Inj. Date and Time: 30-JAN-2013 13:20
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

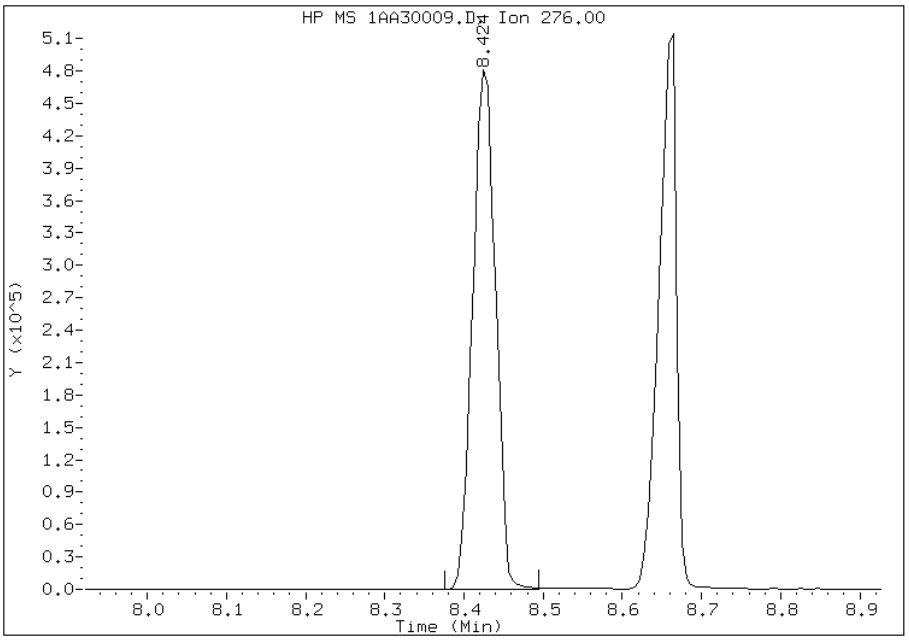
Processing Integration Results

RT: 8.42

Response: 954291

Amount: 60

Conc: 60



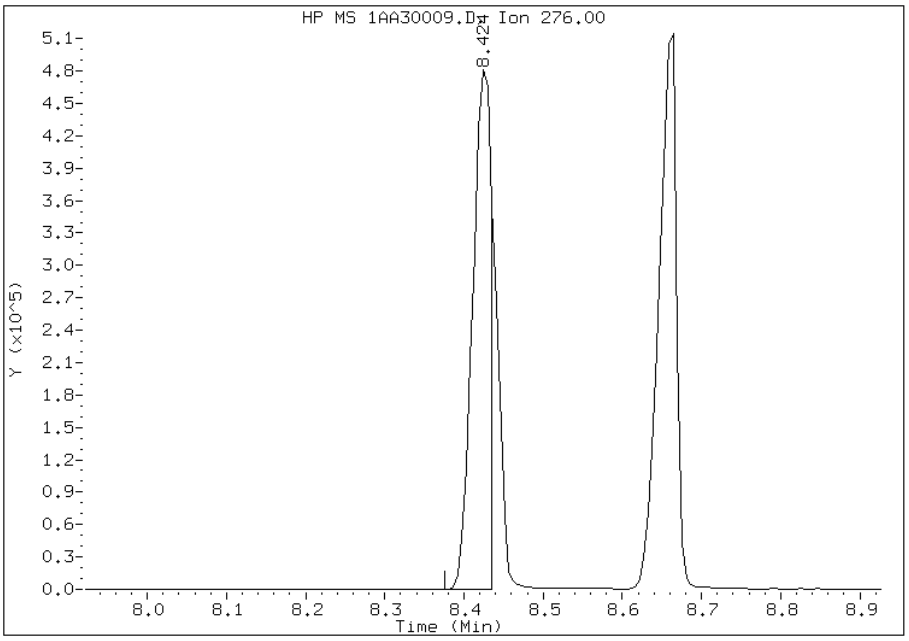
Manual Integration Results

RT: 8.42

Response: 777793

Amount: 50

Conc: 50



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:32
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2 Analy Batch No.: 133227

SDG No.: 68087318-2

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133227/3	1CA07013.D
Level 2	IC 660-133227/4	1CA07014.D
Level 3	IC 660-133227/5	1CA07015.D
Level 4	IC 660-133227/6	1CA07016.D
Level 5	ICIS 660-133227/7	1CA07017.D
Level 6	IC 660-133227/8	1CA07018.D
Level 7	IC 660-133227/9	1CA07019.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.0948 1.0545	0.9495 1.0923	1.1033	1.0932	1.0321	Ave		1.0599			0.0000	5.2		15.0			
2-Methylnaphthalene	0.7336 0.6800	0.6777 0.6981	0.6603	0.7017	0.6730	Ave		0.6892			0.0000	3.5		15.0			
1-Methylnaphthalene	0.5817 0.6643	0.5360 0.6684	0.6316	0.6552	0.6507	Ave		0.6268			0.0000	7.9		15.0			
Acenaphthylene	1.7181 1.6465	1.4412 1.6572	1.4779	1.5857	1.6130	Ave		1.5914			0.0000	6.3		15.0			
Acenaphthene	1.1390 0.9603	1.0282 0.9633	0.9458	1.0094	0.9406	Ave		0.9981			0.0000	7.0		15.0			
Fluorene	1.3483 1.3015	1.2058 1.2912	1.2211	1.3274	1.2732	Ave		1.2812			0.0000	4.1		15.0			
Phenanthrene	1.5909 1.1271	1.1807 1.1120	1.0815	1.1674	1.0983	Ave		1.1940			0.0000	15.0		15.0			
Anthracene	1.0132 1.1091	0.9972 1.1231	1.0674	1.1234	1.0967	Ave		1.0757			0.0000	4.8		15.0			
Carbazole	0.8906 0.9895	0.8628 0.9866	0.8811	0.9644	0.9658	Ave		0.9344			0.0000	5.8		15.0			
Fluoranthene	0.9799 1.2313	1.0735 1.2497	1.1621	1.2234	1.2469	Ave		1.1667			0.0000	8.9		15.0			
Pyrene	0.8059 1.1858	1.0113 1.1112	1.0616	1.1543	1.1241	Ave		1.0649			0.0000	12.0		15.0			
Benzo[a]anthracene	1.4670 1.0800	0.9986 1.0530	1.0400	1.0600	1.0228	Ave		1.1031			0.0000	14.7		15.0			
Chrysene	1.2057 1.1045	1.2101 1.0821	1.1125	1.1626	1.0982	Ave		1.1394			0.0000	4.7		15.0			
Benzo[b]fluoranthene	0.8713 1.0190	0.8691 1.1293	0.9456	1.0325	0.9979	Ave		0.9807			0.0000	9.5		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2 Analy Batch No.: 133227

SDG No.: 68087318-2

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	0.9252 1.2002	0.9572 1.1097	1.0697	1.1497	1.1509	Ave		1.0804			0.0000	9.6		15.0			
Benzo[a]pyrene	0.7248 1.0316	0.8455 1.0436	0.9117	0.9956	0.9794	Ave		0.9332			0.0000	12.3		15.0			
Indeno[1,2,3-cd]pyrene	0.6998 0.9422	0.4820 0.8813	0.8137	0.8316	0.9002	LinF		0.8963			0.0000				0.9980		0.9900
Dibenz(a,h)anthracene	0.7712 0.9005	0.7805 0.9132	0.8152	0.8774	0.8585	Ave		0.8452			0.0000	6.7		15.0			
Benzo[g,h,i]perylene	0.8112 0.9967	0.7908 0.9698	0.9172	0.9667	0.9207	Ave		0.9104			0.0000	8.8		15.0			
o-Terphenyl	0.5355 0.5984	0.5589 0.5994	0.5931	0.6168	0.6005	Ave		0.5861			0.0000	4.8		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.: 680-87318-2 Analy Batch No.: 133227

SDG No.: 68087318-2

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133227/3	1CA07013.D
Level 2	IC 660-133227/4	1CA07014.D
Level 3	IC 660-133227/5	1CA07015.D
Level 4	IC 660-133227/6	1CA07016.D
Level 5	ICIS 660-133227/7	1CA07017.D
Level 6	IC 660-133227/8	1CA07018.D
Level 7	IC 660-133227/9	1CA07019.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	11168 1744899	49180 2683662	279616	562439	1132608	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	7484 1125305	35101 1715115	167348	360991	738557	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	5934 1099203	27760 1642265	160060	337071	714057	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	13060 2078096	55638 3143102	277566	597168	1333542	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8658 1212087	39694 1826987	177622	380155	777625	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	10249 1642686	46551 2448772	229328	499898	1052584	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	22944 2725408	87138 3980821	382657	852208	1725035	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	14612 2681981	73594 4020655	377684	820090	1722588	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	12845 2392859	63677 3531798	311754	704012	1516911	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	14132 2977438	79223 4473693	411201	893123	1958378	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	13699 3254878	87607 4789001	444176	1032505	2128584	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	24935 2964525	86510 4538204	435113	948119	1936797	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	20495 3031738	104834 4663655	465452	1039885	2079538	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	15170 2773683	75135 4834833	409334	924867	1891292	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	16108 3267104	82752 4750961	463057	1029821	2181246	0.200 30.0	1.00 50.0	5.00	10.0	20.0

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

Lab Name: TestAmerica Tampa Job No.: 680-87318-2 Analy Batch No.: 133227

SDG No.: 68087318-2

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

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	12619 2808161	73092 4467973	394642	891772	1856241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	LinF	12184 2564602	41666 3772962	352250	744949	1706161	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13428 2451088	67472 3909634	352888	785898	1627151	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14123 2713188	68360 4151782	397056	865965	1745002	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7723 1447125	41244 2145891	209857	450297	943151	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07013.D
Lab Smp Id: IC-1489894
Inj Date : 07-JAN-2013 15:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2040281	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1520300	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2884412	40.0000	
$ 14 o-Terphenyl	230	6.162	6.162	(1.042)	7723	0.20000	0.1827
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3399562	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3482211	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	11168	0.20000	0.2065(Q)
3 2-Methylnaphthalene	142	4.304	4.304	(1.113)	7484	0.20000	0.2128
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	5934	0.20000	0.1855
5 Acenaphthylene	152	4.868	4.868	(0.982)	13060	0.20000	0.2159
7 Acenaphthene	154	4.974	4.974	(1.004)	8658	0.20000	0.2282
9 Fluorene	166	5.298	5.298	(1.069)	10249	0.20000	0.2104
11 Phenanthrene	178	5.927	5.927	(1.002)	22944	0.20000	0.2664
12 Anthracene	178	5.962	5.962	(1.008)	14612	0.20000	0.1883
13 Carbazole	167	6.074	6.074	(1.027)	12845	0.20000	0.1906
15 Fluoranthene	202	6.774	6.774	(1.145)	14132	0.20000	0.1679
16 Pyrene	202	6.945	6.945	(0.883)	13699	0.20000	0.1513
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	24935	0.20000	0.2659
19 Chrysene	228	7.886	7.886	(1.002)	20495	0.20000	0.2116
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	15170	0.20000	0.1776
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	16108	0.20000	0.1712(M)
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	12619	0.20000	0.1553
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	12184	0.20000	0.1764(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	13428	0.20000	0.1824(M)
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	14123	0.20000	0.1781(M)

QC Flag Legend

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

Data File: 1CA07013.D

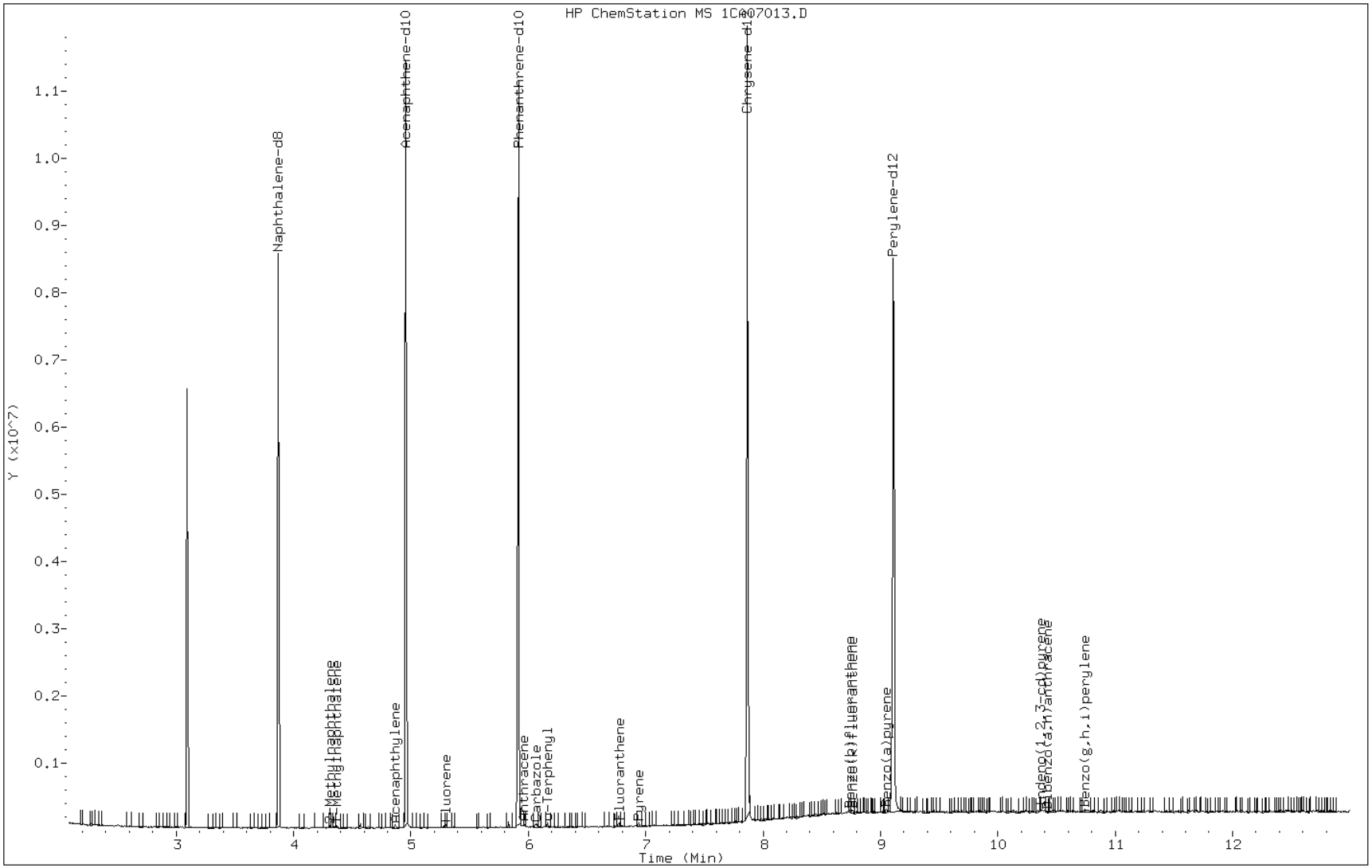
Date: 07-JAN-2013 15:23

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1489894

Operator: SCC



Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/08/2013

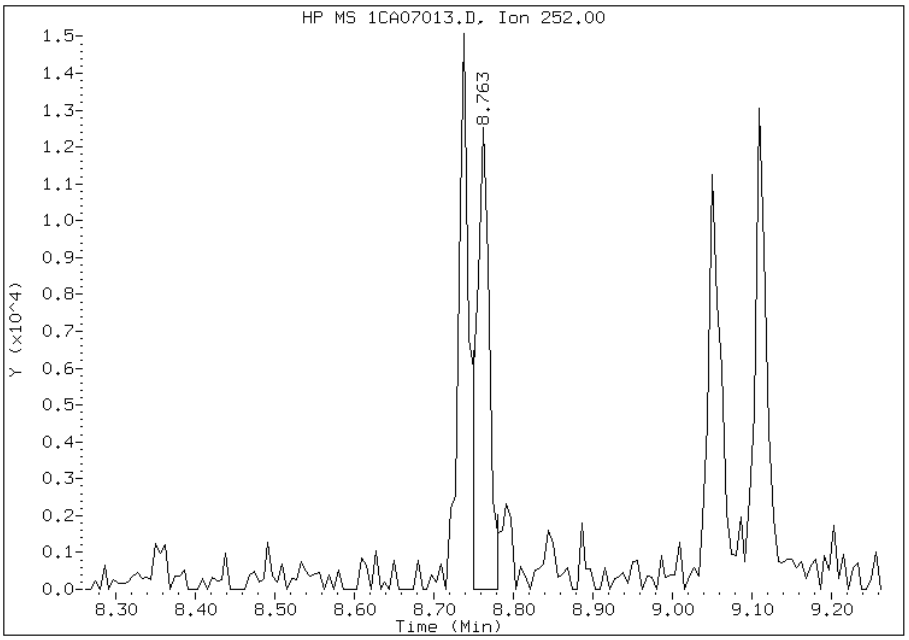
Processing Integration Results

RT: 8.76

Response: 14049

Amount: 0

Conc: 0



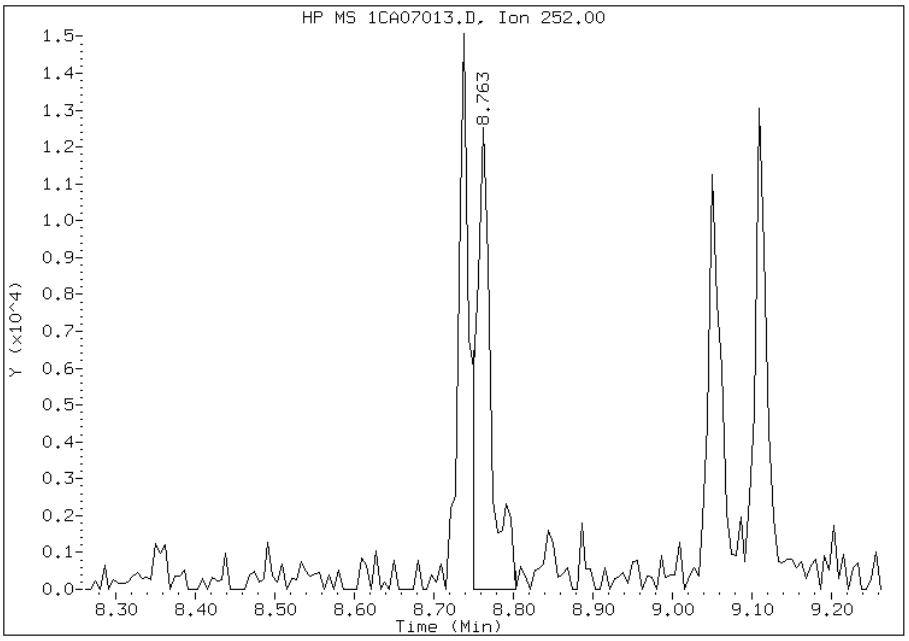
Manual Integration Results

RT: 8.76

Response: 16108

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

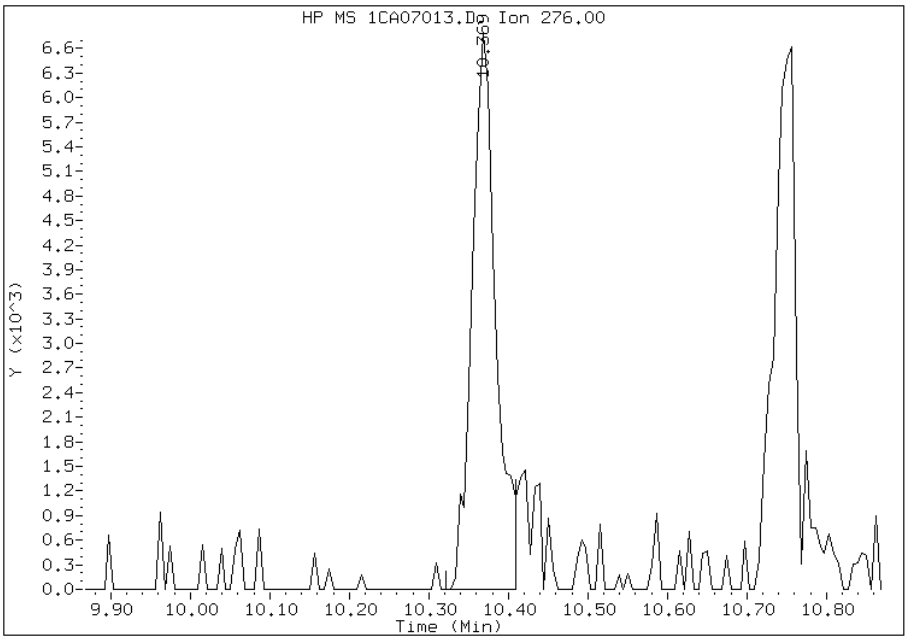
Processing Integration Results

RT: 10.37

Response: 14154

Amount: 0

Conc: 0



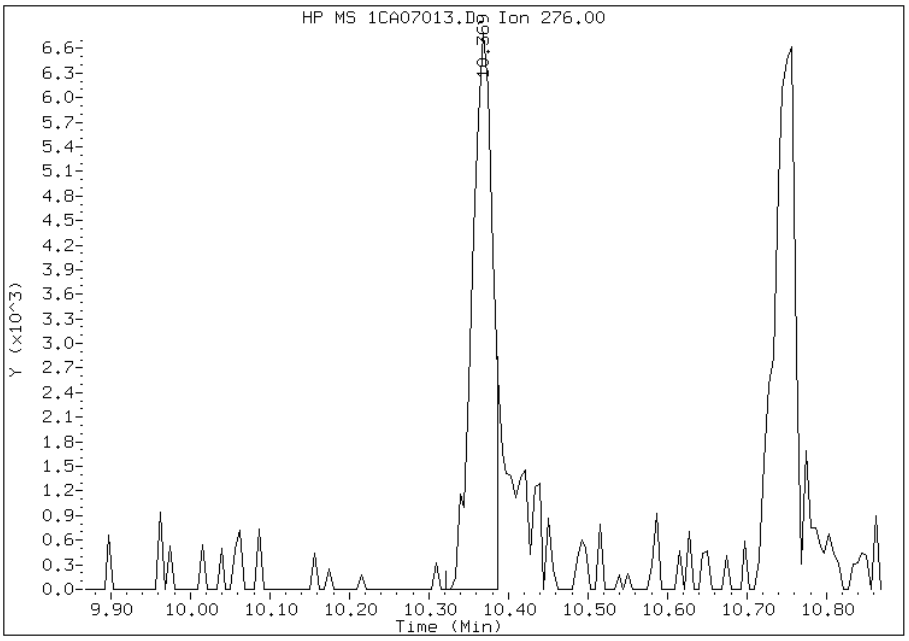
Manual Integration Results

RT: 10.37

Response: 12184

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

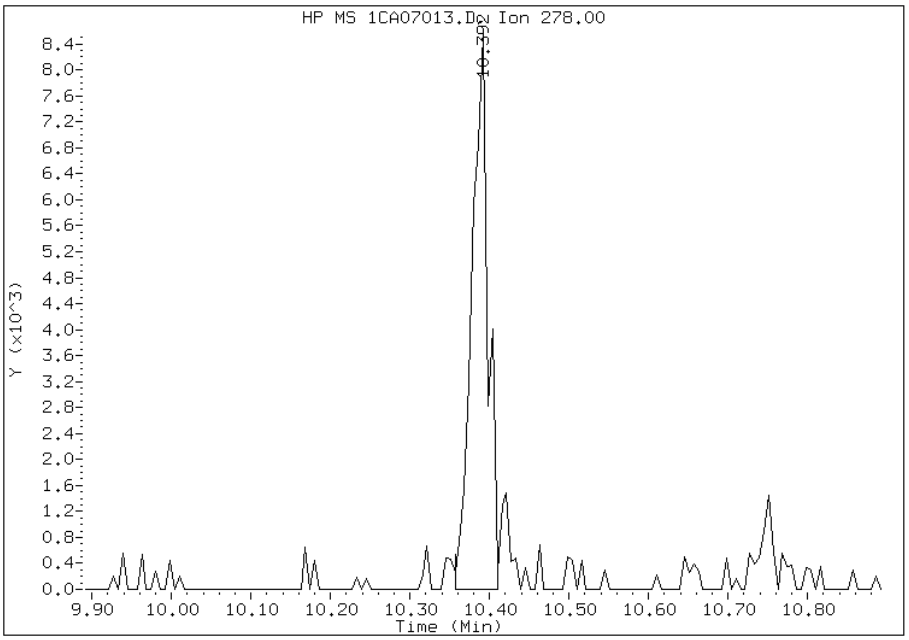
Processing Integration Results

RT: 10.39

Response: 12138

Amount: 0

Conc: 0



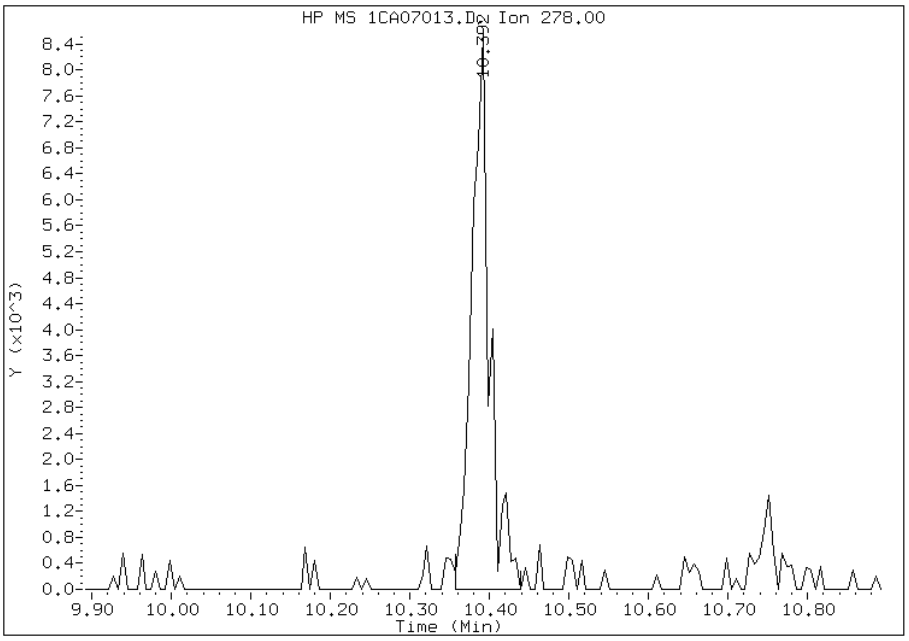
Manual Integration Results

RT: 10.39

Response: 13428

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

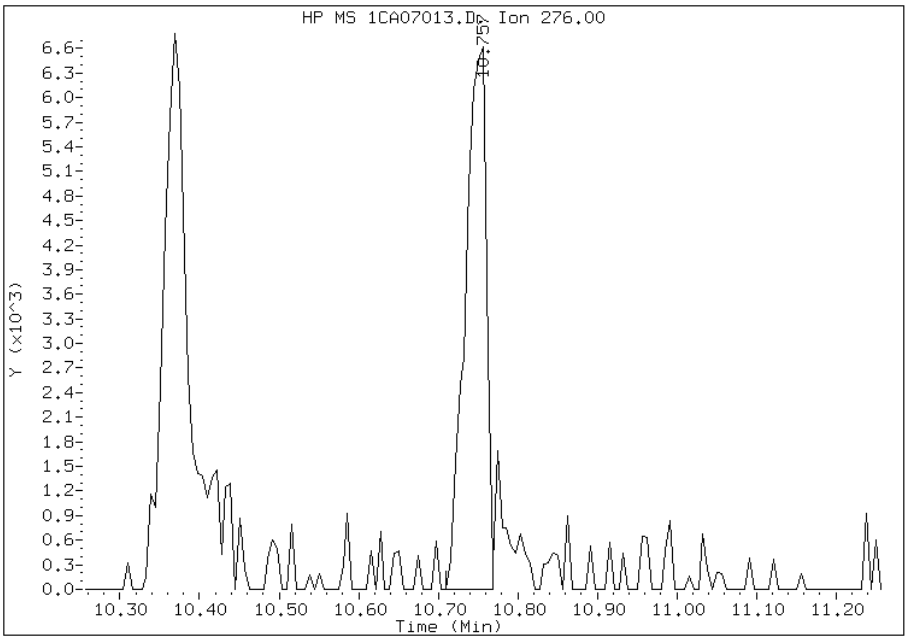
Processing Integration Results

RT: 10.76

Response: 12183

Amount: 0

Conc: 0



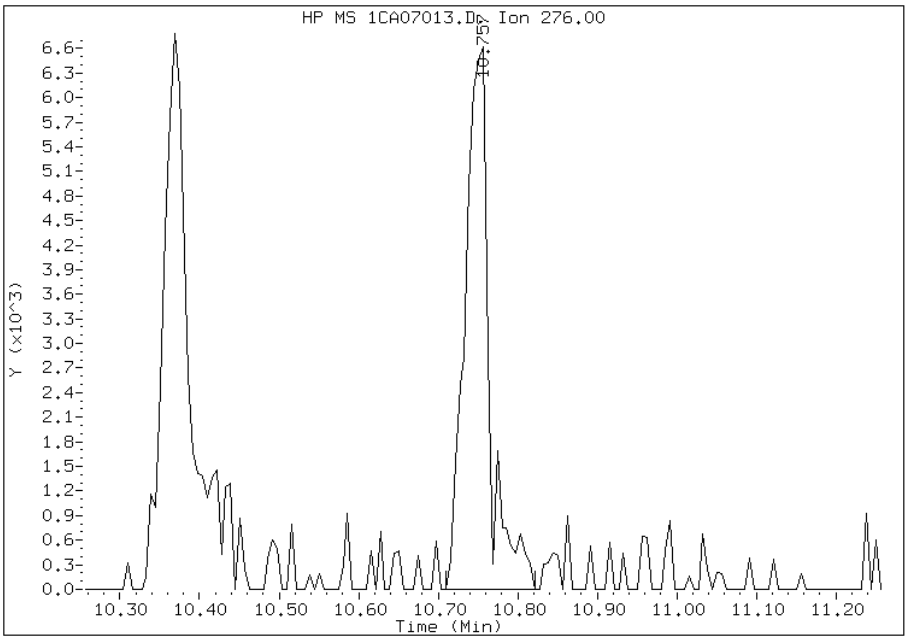
Manual Integration Results

RT: 10.76

Response: 14123

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07014.D
Lab Smp Id: IC-1489895
Inj Date : 07-JAN-2013 15:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:23 Cal File: 1CA07013.D
Als bottle: 14 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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2071724	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1544247	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2952062	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	41244	1.00000	0.9535
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3465163	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3457962	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	49180	1.00000	0.8958(Q)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	35101	1.00000	0.9833
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	27760	1.00000	0.8550
5 Acenaphthylene	152	4.868	4.868	(0.982)	55638	1.00000	0.9056
7 Acenaphthene	154	4.974	4.974	(1.004)	39694	1.00000	1.0301
9 Fluorene	166	5.298	5.298	(1.069)	46551	1.00000	0.9411
11 Phenanthrene	178	5.933	5.933	(1.003)	87138	1.00000	0.9888
12 Anthracene	178	5.962	5.962	(1.008)	73594	1.00000	0.9269
13 Carbazole	167	6.074	6.074	(1.027)	63677	1.00000	0.9233
15 Fluoranthene	202	6.774	6.774	(1.145)	79223	1.00000	0.9201
16 Pyrene	202	6.945	6.945	(0.883)	87607	1.00000	0.9496
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	86510	1.00000	0.9053
19 Chrysene	228	7.886	7.886	(1.002)	104834	1.00000	1.0620(M)
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	75135	1.00000	0.8862
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	82752	1.00000	0.8860
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	73092	1.00000	0.9060
24 Indeno(1,2,3-cd)pyrene	276	10.362	10.362	(1.138)	41666	1.00000	0.6078(M)
25 Dibenzo(a,h)anthracene	278	10.380	10.380	(1.139)	67472	1.00000	0.9234(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	68360	1.00000	0.8685(M)

QC Flag Legend

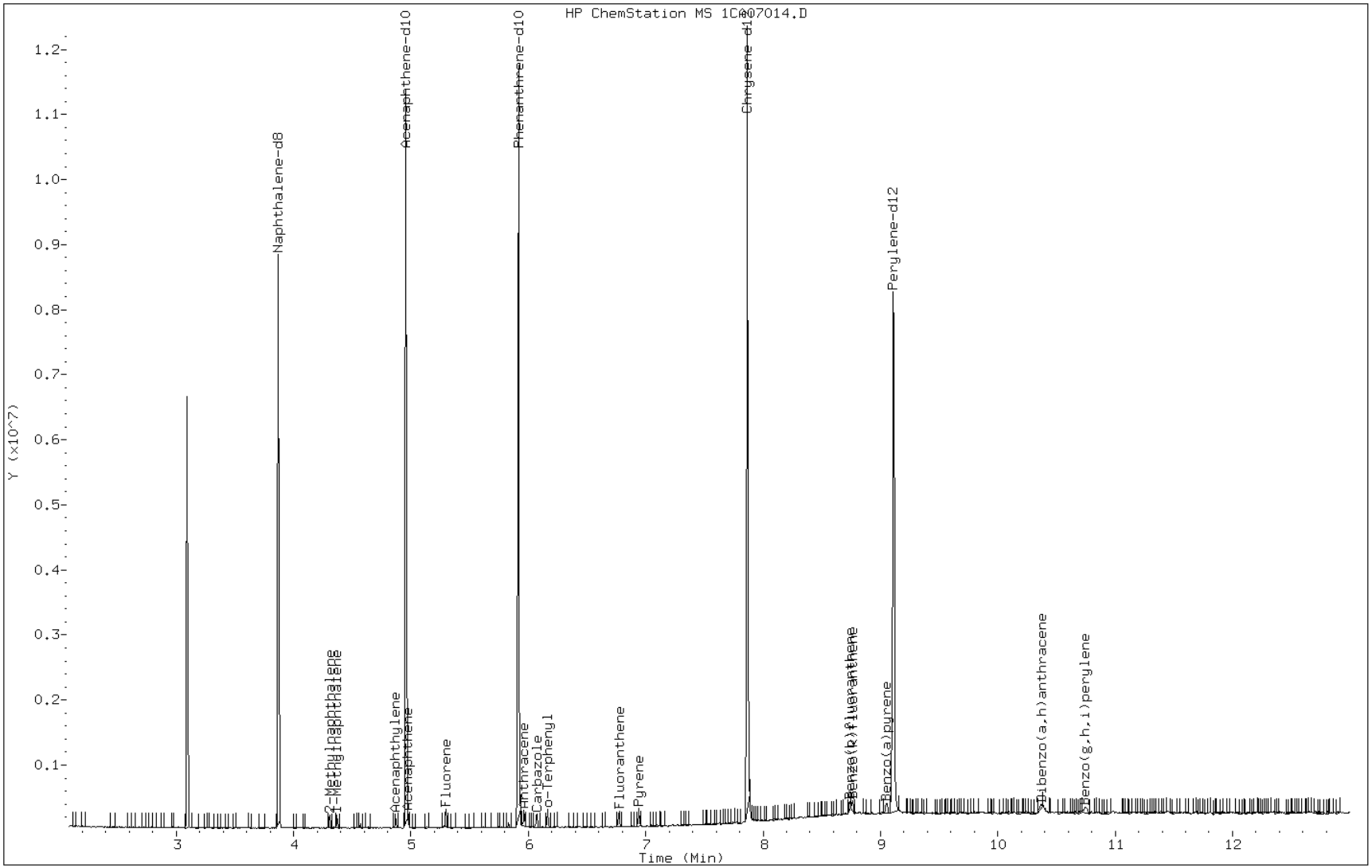
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07014.D

Date: 07-JAN-2013 15:41

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 01/08/2013

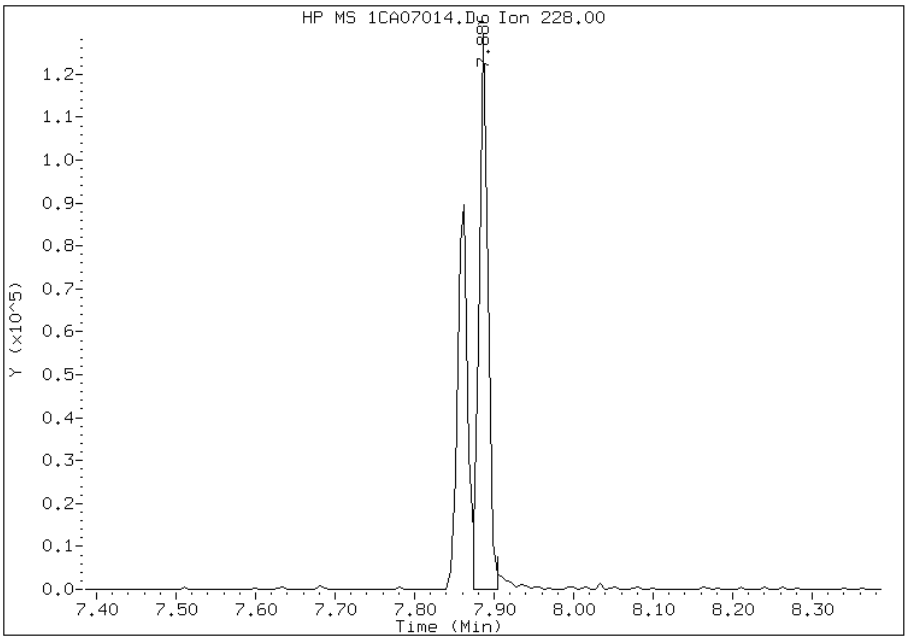
Processing Integration Results

RT: 7.89

Response: 101100

Amount: 1

Conc: 1



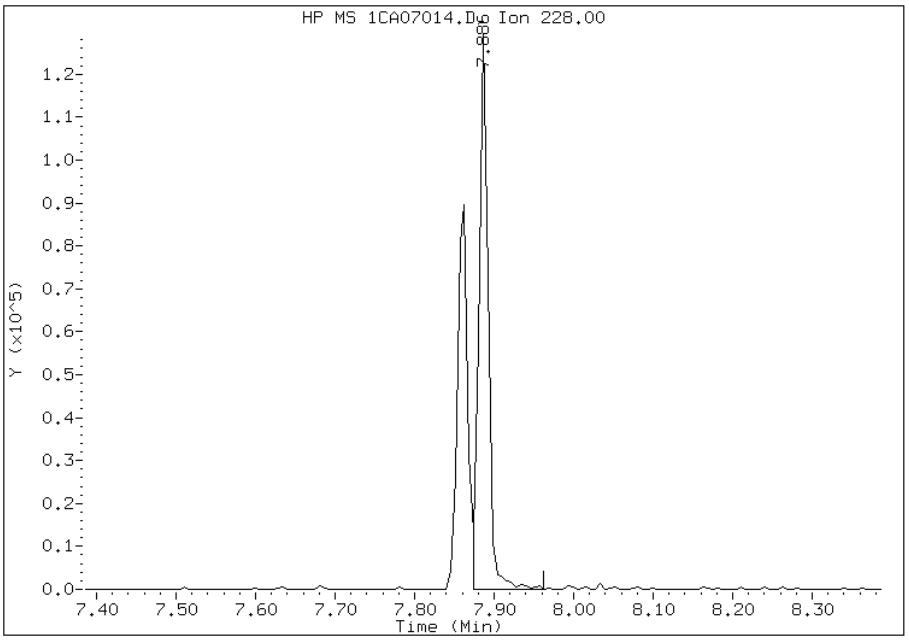
Manual Integration Results

RT: 7.89

Response: 104834

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

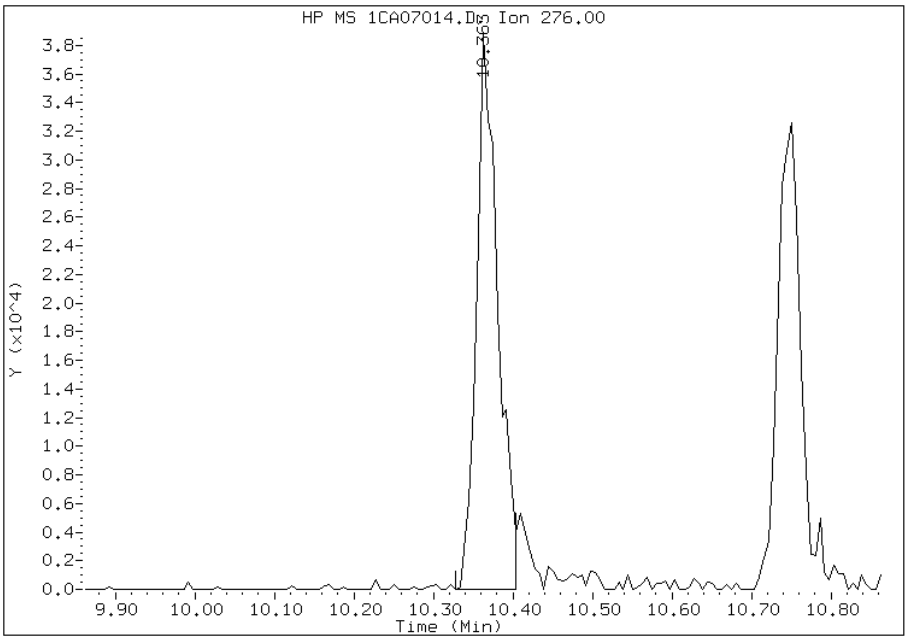
Processing Integration Results

RT: 10.36

Response: 72270

Amount: 1

Conc: 1



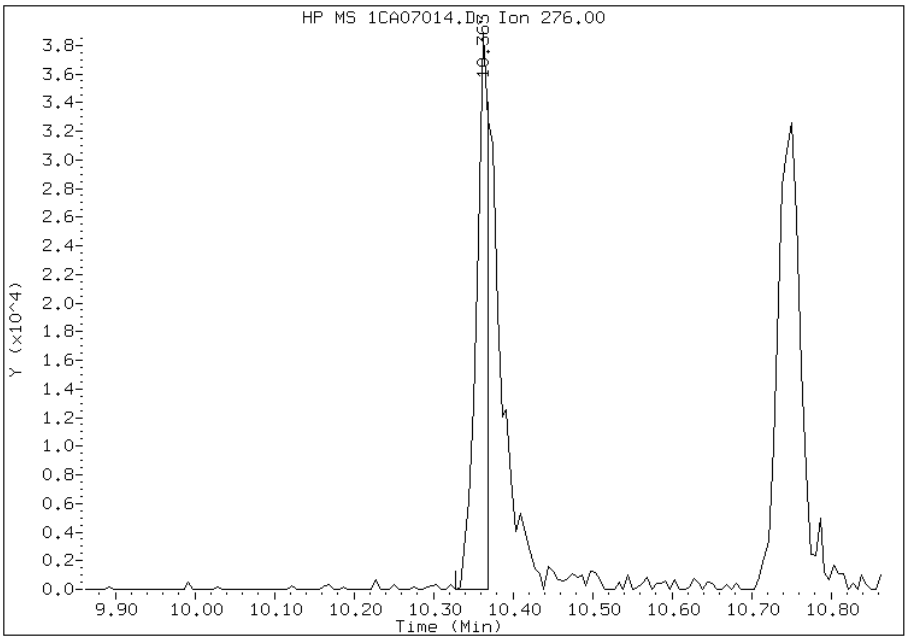
Manual Integration Results

RT: 10.36

Response: 41666

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

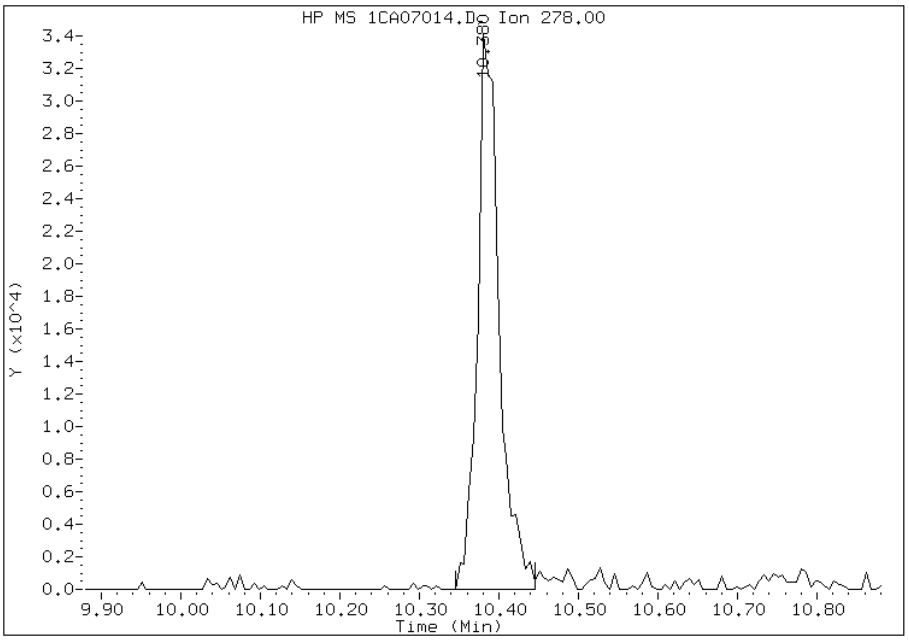
Processing Integration Results

RT: 10.38

Response: 65243

Amount: 1

Conc: 1



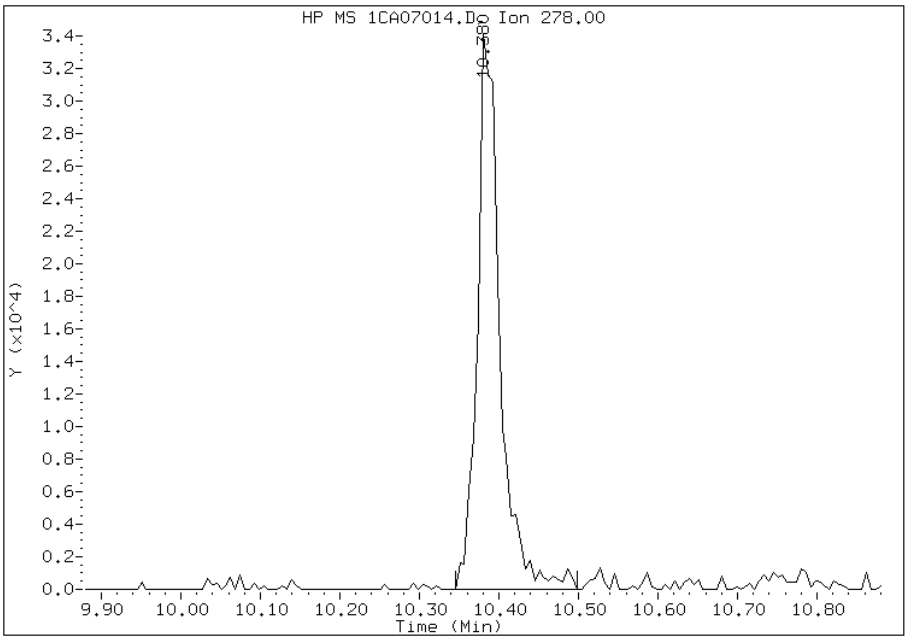
Manual Integration Results

RT: 10.38

Response: 67472

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

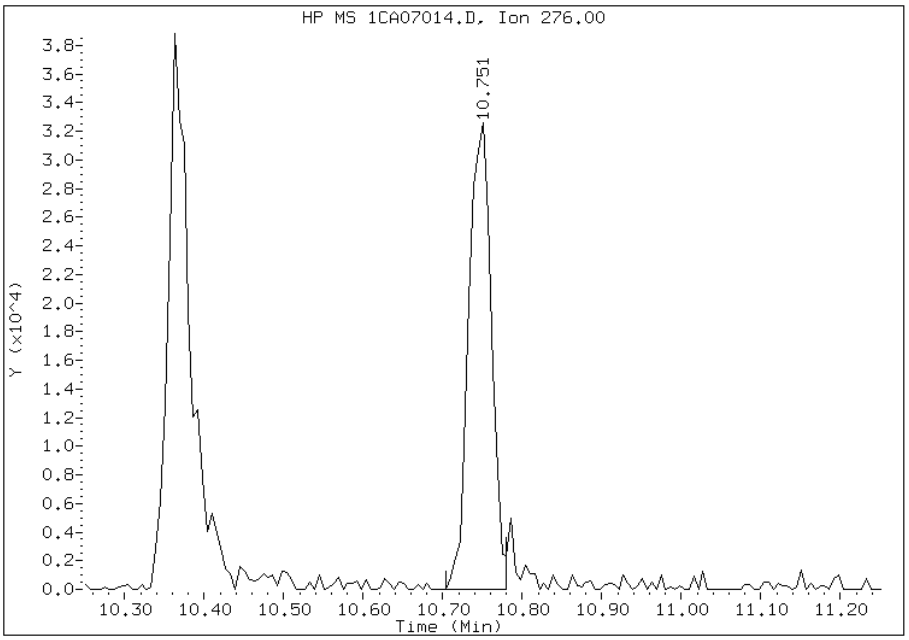
Processing Integration Results

RT: 10.75

Response: 64475

Amount: 1

Conc: 1



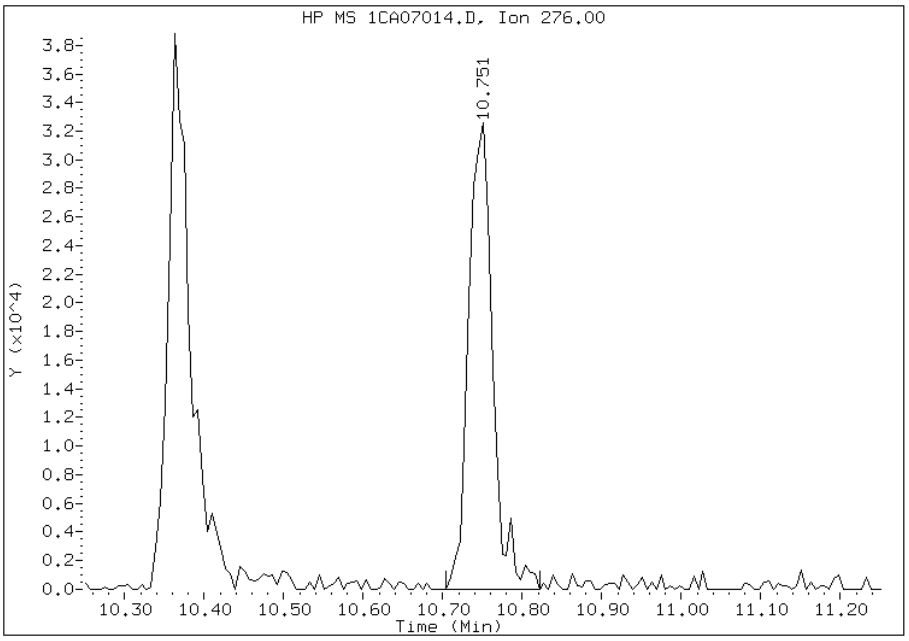
Manual Integration Results

RT: 10.75

Response: 68360

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07015.D
Lab Smp Id: IC-1489896
Inj Date : 07-JAN-2013 15:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:41 Cal File: 1CA07014.D
Als bottle: 15 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 MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2027501	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1502475	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2830661	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	209857	5.00000	5.0597
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3347096	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3463066	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	279616	5.00000	5.2044
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	167348	5.00000	4.7904
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	160060	5.00000	5.0377
5 Acenaphthylene	152	4.869	4.869	(0.982)	277566	5.00000	4.6435
7 Acenaphthene	154	4.974	4.974	(1.004)	177622	5.00000	4.7378
9 Fluorene	166	5.298	5.298	(1.069)	229328	5.00000	4.7653
11 Phenanthrene	178	5.927	5.927	(1.002)	382657	5.00000	4.5288
12 Anthracene	178	5.963	5.963	(1.008)	377684	5.00000	4.9613
13 Carbazole	167	6.074	6.074	(1.027)	311754	5.00000	4.7146
15 Fluoranthene	202	6.774	6.774	(1.145)	411201	5.00000	4.9805
16 Pyrene	202	6.945	6.945	(0.883)	444176	5.00000	4.9847
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	435113	5.00000	4.7140
19 Chrysene	228	7.886	7.886	(1.002)	465452	5.00000	4.8819
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	409334	5.00000	4.8211
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	463057	5.00000	4.9506
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	394642	5.00000	4.8847
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	352250	5.00000	5.1308(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	352888	5.00000	4.8224(M)
26 Benzo(g,h,i)perylene	276	10.751	10.751	(1.180)	397056	5.00000	5.0373(M)

QC Flag Legend

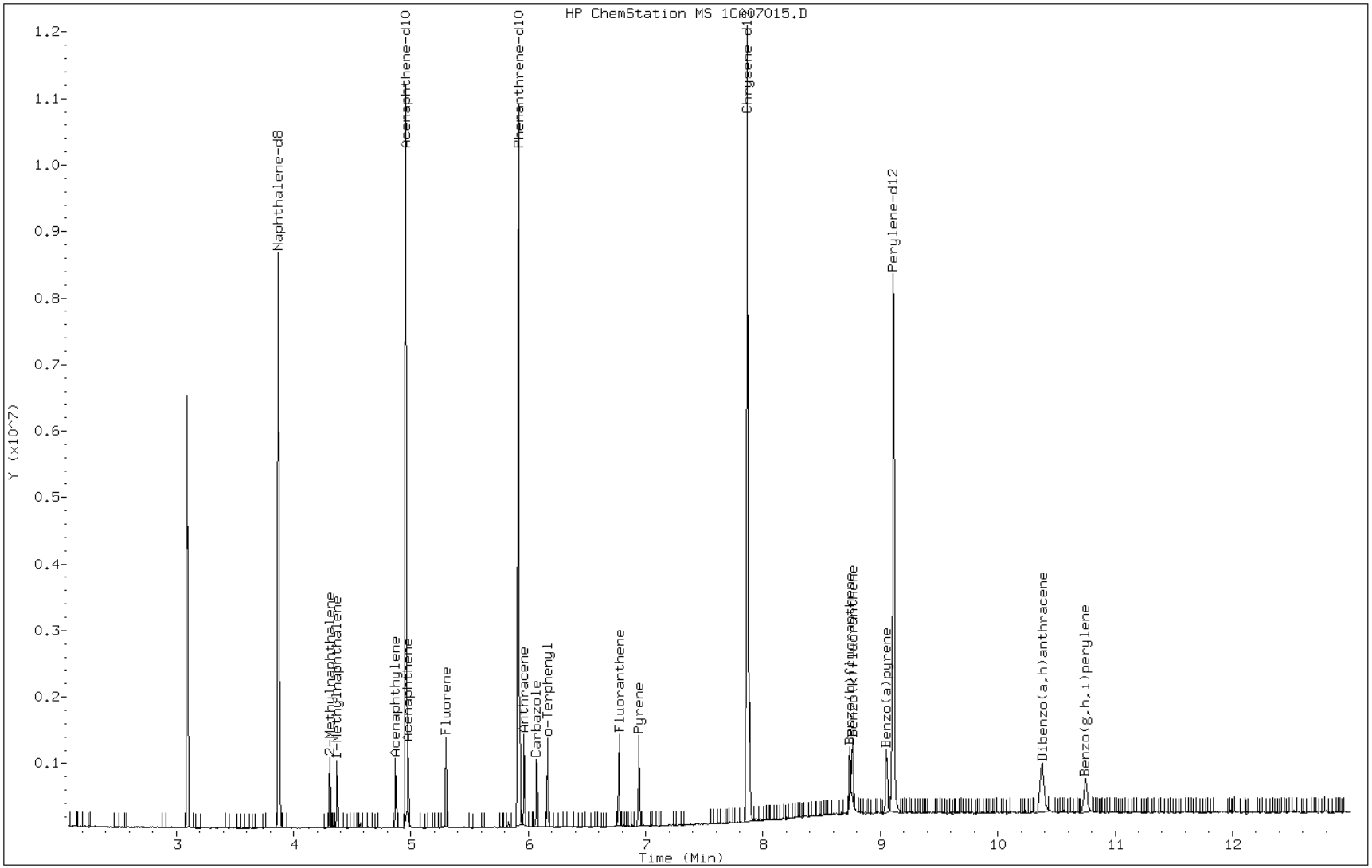
M - Compound response manually integrated.

Data File: 1CA07015.D

Date: 07-JAN-2013 15:59

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489896 Operator: SCC



Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

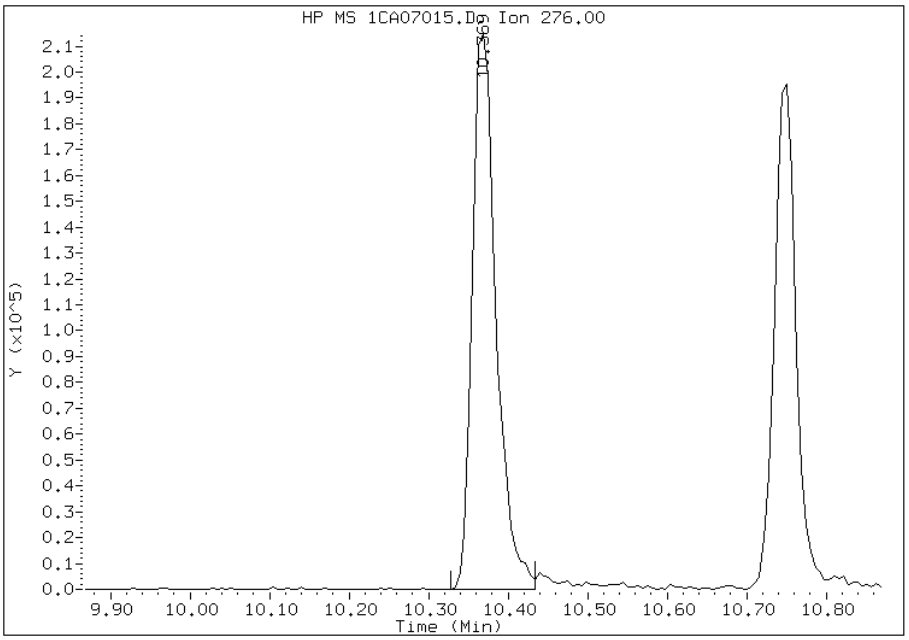
Processing Integration Results

RT: 10.37

Response: 445493

Amount: 6

Conc: 6



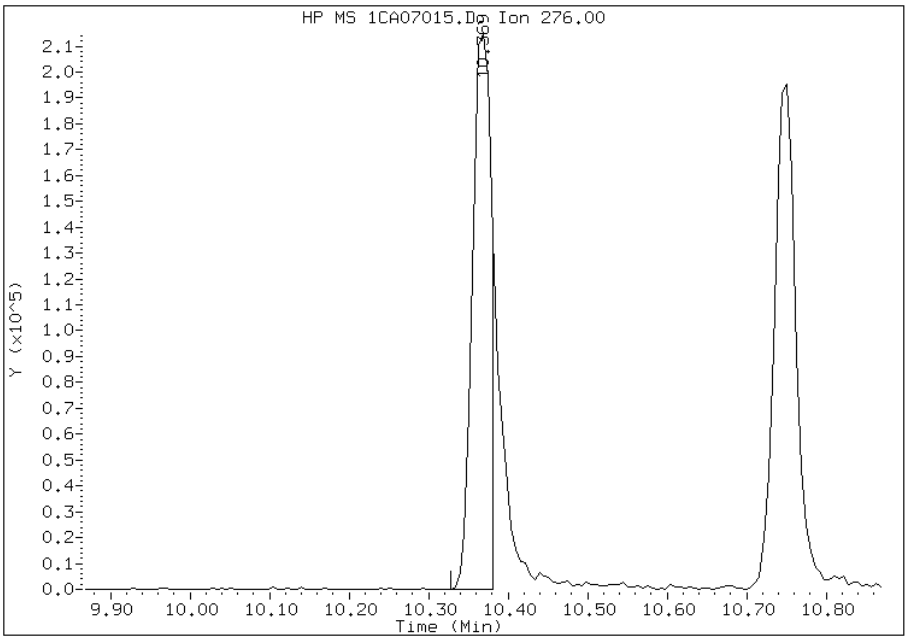
Manual Integration Results

RT: 10.37

Response: 352250

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

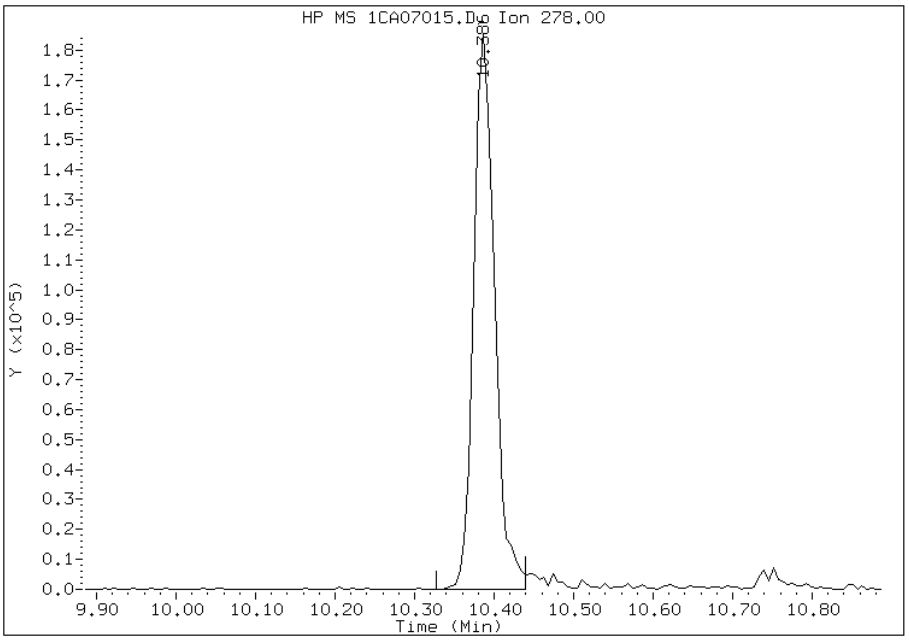
Processing Integration Results

RT: 10.39

Response: 335936

Amount: 5

Conc: 5



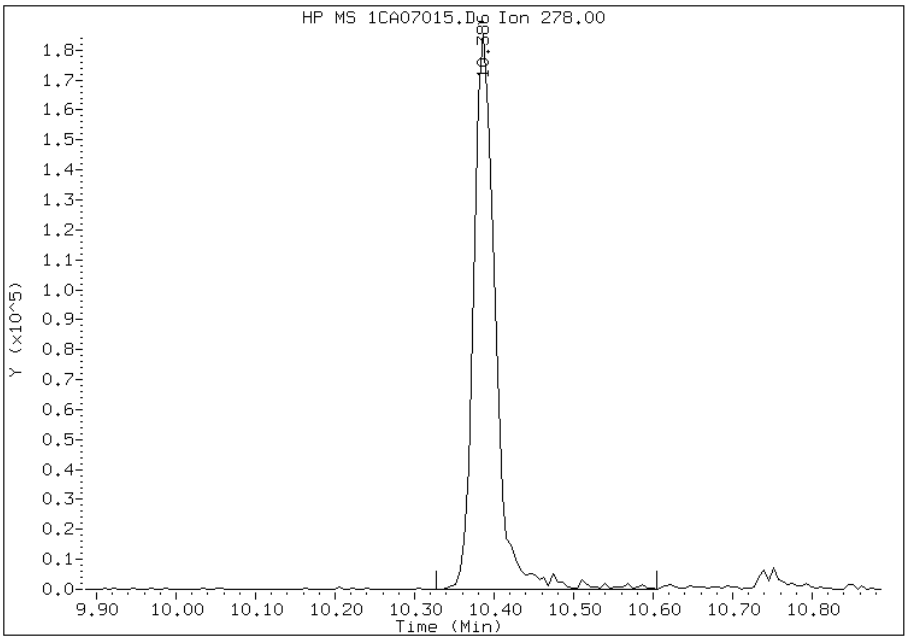
Manual Integration Results

RT: 10.39

Response: 352888

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

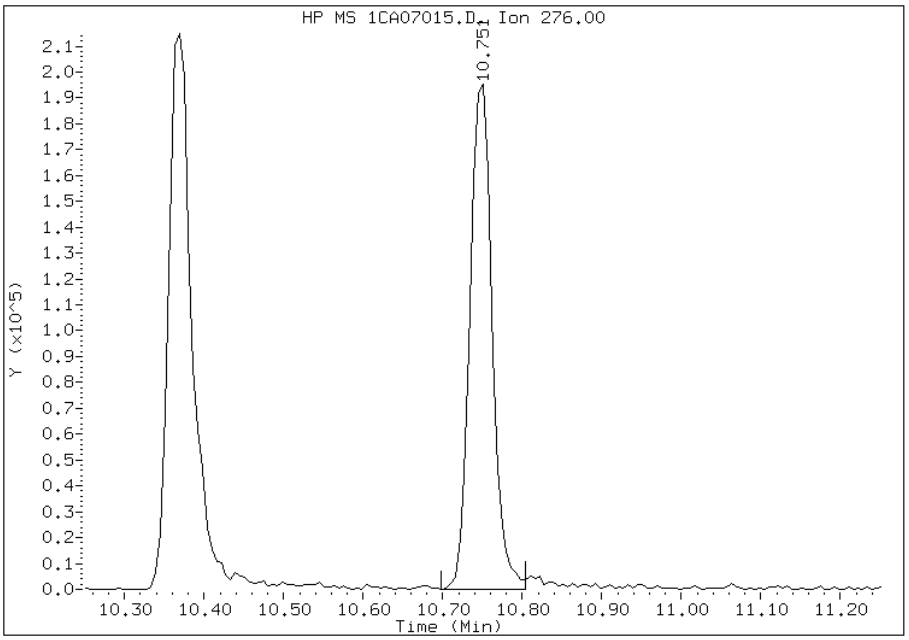
Processing Integration Results

RT: 10.75

Response: 377997

Amount: 5

Conc: 5



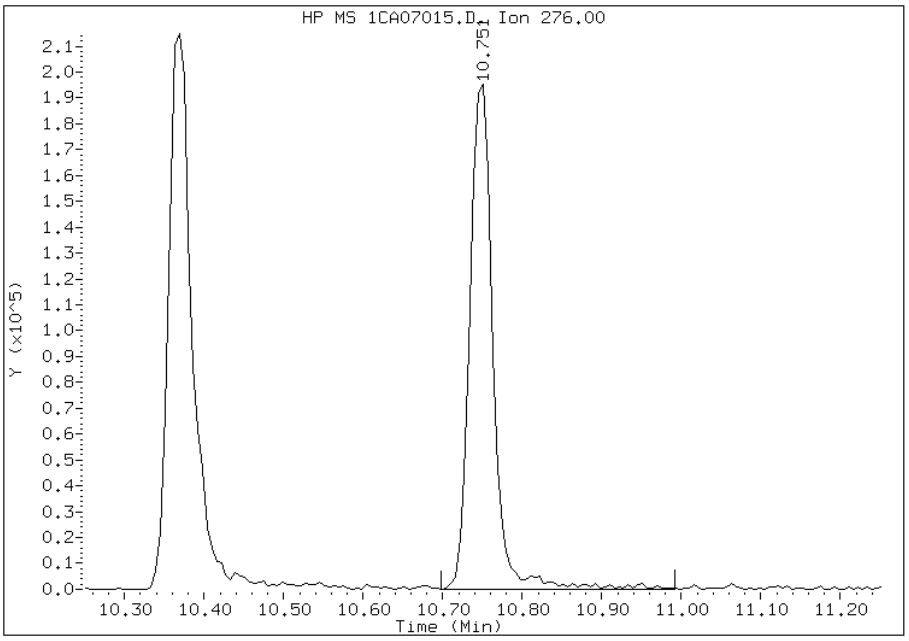
Manual Integration Results

RT: 10.75

Response: 397056

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07016.D
Lab Smp Id: IC-1489897
Inj Date : 07-JAN-2013 16:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:59 Cal File: 1CA07015.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2057907	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1506425	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2920094	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	450297	10.0000	10.5243
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3577892	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3583032	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	562439	10.0000	10.3139
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	360991	10.0000	10.1808
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	337071	10.0000	10.4523
5 Acenaphthylene	152	4.868	4.868	(0.982)	597168	10.0000	9.9641
7 Acenaphthene	154	4.974	4.974	(1.004)	380155	10.0000	10.1136
9 Fluorene	166	5.298	5.298	(1.069)	499898	10.0000	10.3604
11 Phenanthrene	178	5.927	5.927	(1.002)	852208	10.0000	9.7771
12 Anthracene	178	5.962	5.962	(1.008)	820090	10.0000	10.4428
13 Carbazole	167	6.068	6.068	(1.026)	704012	10.0000	10.3206
15 Fluoranthene	202	6.774	6.774	(1.145)	893123	10.0000	10.4863
16 Pyrene	202	6.945	6.945	(0.883)	1032505	10.0000	10.8396
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	948119	10.0000	9.6094
19 Chrysene	228	7.886	7.886	(1.002)	1039885	10.0000	10.2033
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	924867	10.0000	10.5284
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	1029821	10.0000	10.6413
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	891772	10.0000	10.6685
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	744949	10.0000	10.4876(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	785898	10.0000	10.3803(M)
26 Benzo(g,h,i)perylene	276	10.744	10.744	(1.179)	865965	10.0000	10.6183(M)

QC Flag Legend

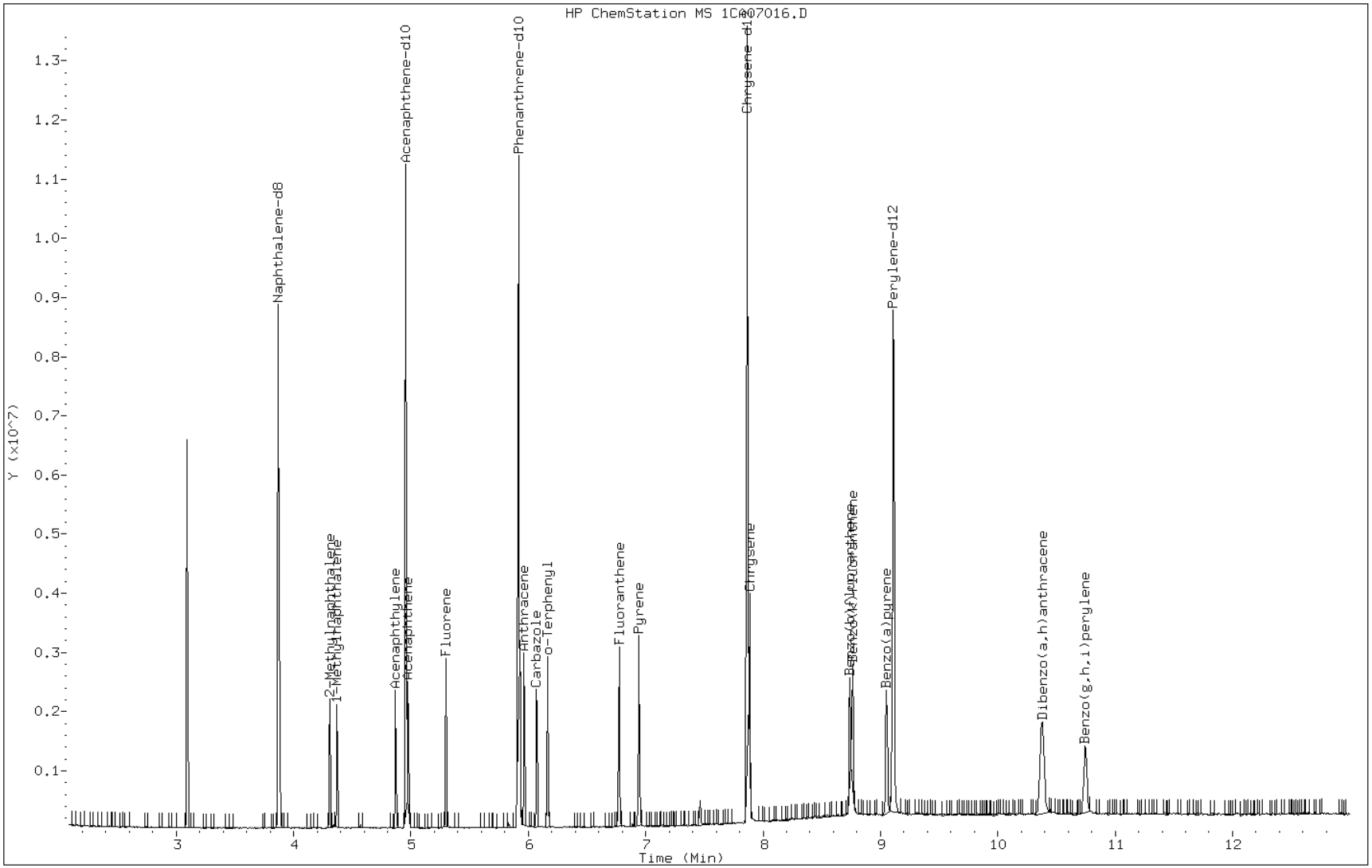
M - Compound response manually integrated.

Data File: 1CA07016.D

Date: 07-JAN-2013 16:18

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

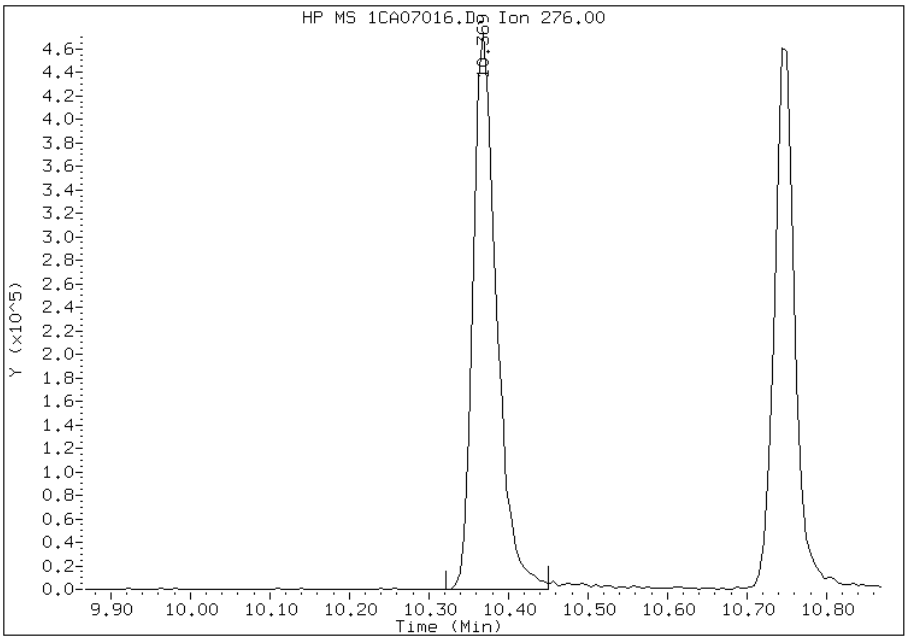
Processing Integration Results

RT: 10.37

Response: 970985

Amount: 12

Conc: 12



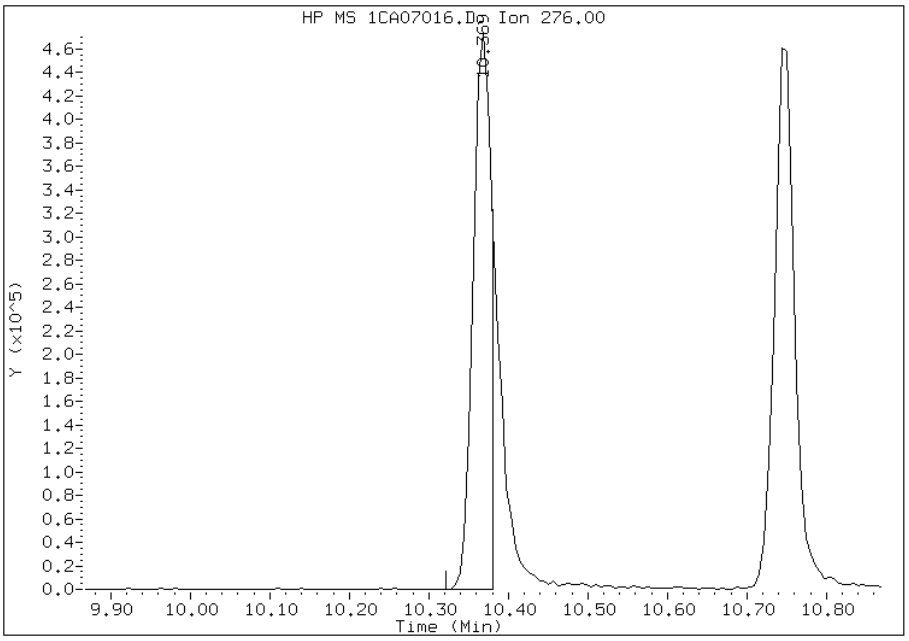
Manual Integration Results

RT: 10.37

Response: 744949

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

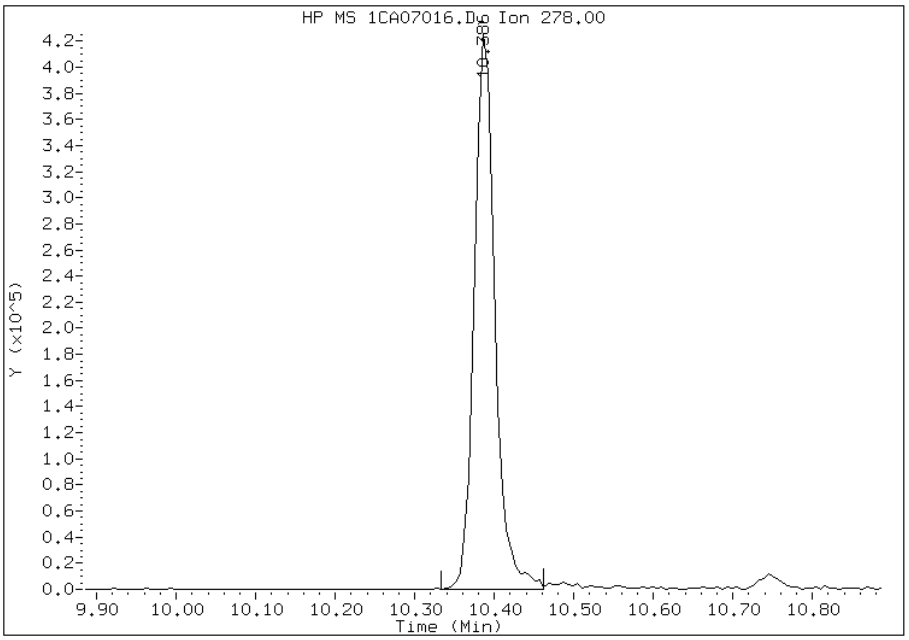
Processing Integration Results

RT: 10.39

Response: 764351

Amount: 10

Conc: 10



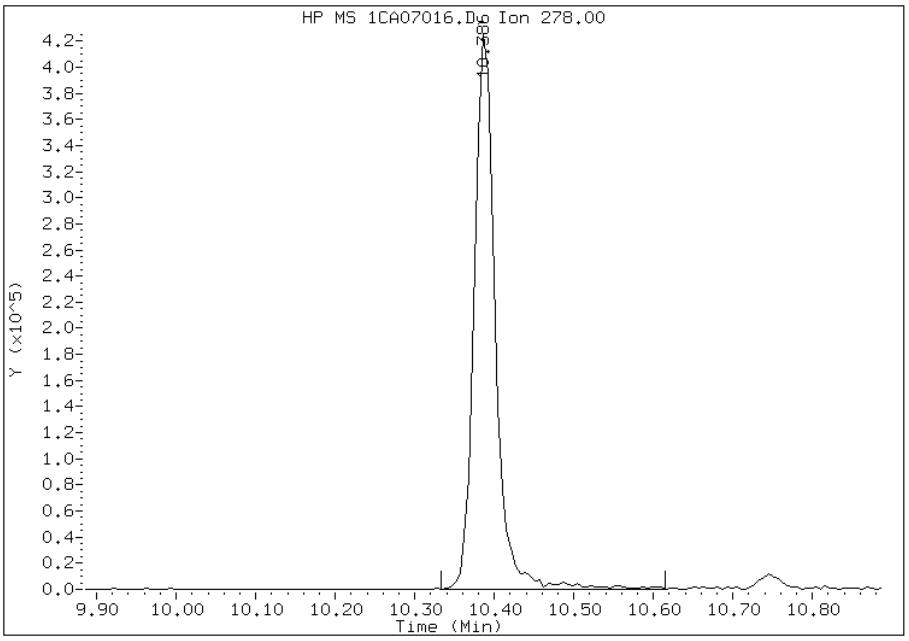
Manual Integration Results

RT: 10.39

Response: 785898

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

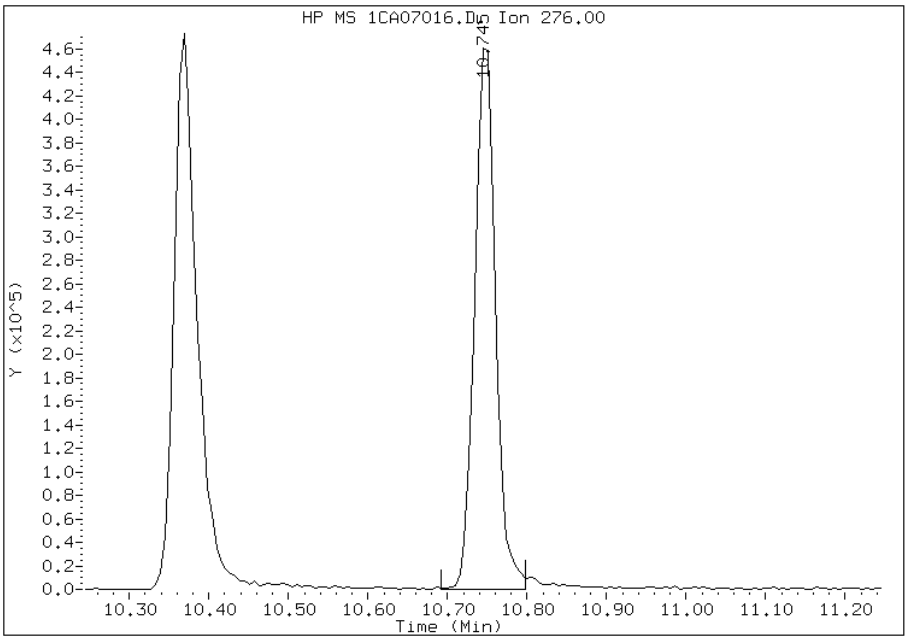
Processing Integration Results

RT: 10.74

Response: 835718

Amount: 10

Conc: 10



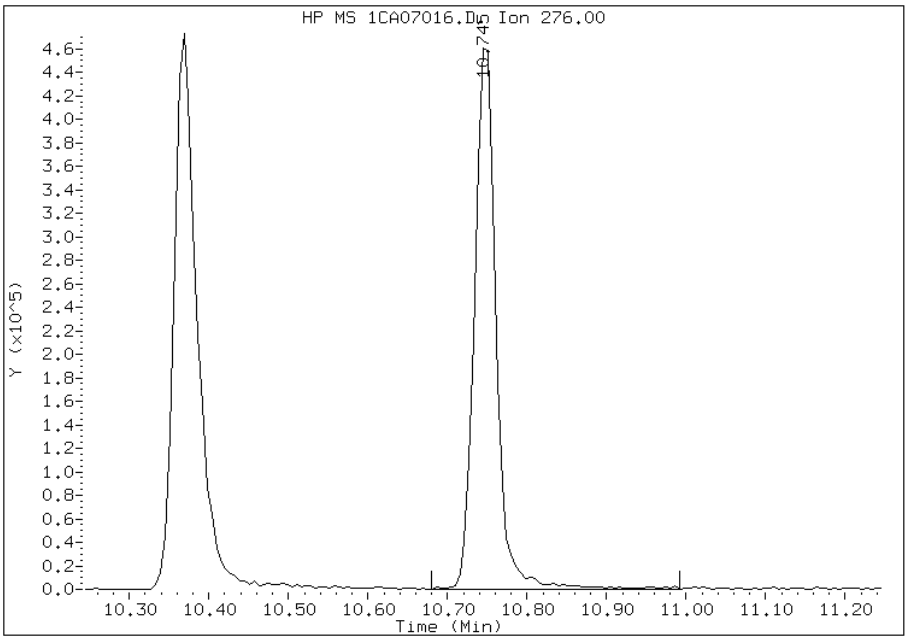
Manual Integration Results

RT: 10.74

Response: 865965

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07017.D
Lab Smp Id: ICIS-1489898
Inj Date : 07-JAN-2013 16:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:18 Cal File: 1CA07016.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2194838	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1653478	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	3141284	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	943151	20.0000	20.4912
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3787207	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3790527	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1132608	20.0000	19.4738
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	738557	20.0000	19.5296
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	714057	20.0000	20.7609
5 Acenaphthylene	152	4.868	4.868	(0.982)	1333542	20.0000	20.2720
7 Acenaphthene	154	4.974	4.974	(1.004)	777625	20.0000	18.8479
9 Fluorene	166	5.298	5.298	(1.069)	1052584	20.0000	19.8748
11 Phenanthrene	178	5.927	5.927	(1.002)	1725035	20.0000	18.3973
12 Anthracene	178	5.962	5.962	(1.008)	1722588	20.0000	20.3906
13 Carbazole	167	6.074	6.074	(1.027)	1516911	20.0000	20.6718
15 Fluoranthene	202	6.774	6.774	(1.145)	1958378	20.0000	21.3746
16 Pyrene	202	6.945	6.945	(0.883)	2128584	20.0000	21.1117
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	1936797	20.0000	18.5450
19 Chrysene	228	7.886	7.886	(1.002)	2079538	20.0000	19.2766
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	1891292	20.0000	20.3514
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	2181246	20.0000	21.3054
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	1856241	20.0000	20.9912
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	1706161	20.0000	22.7051(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	1627151	20.0000	20.3153(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	1745002	20.0000	20.2256(M)

QC Flag Legend

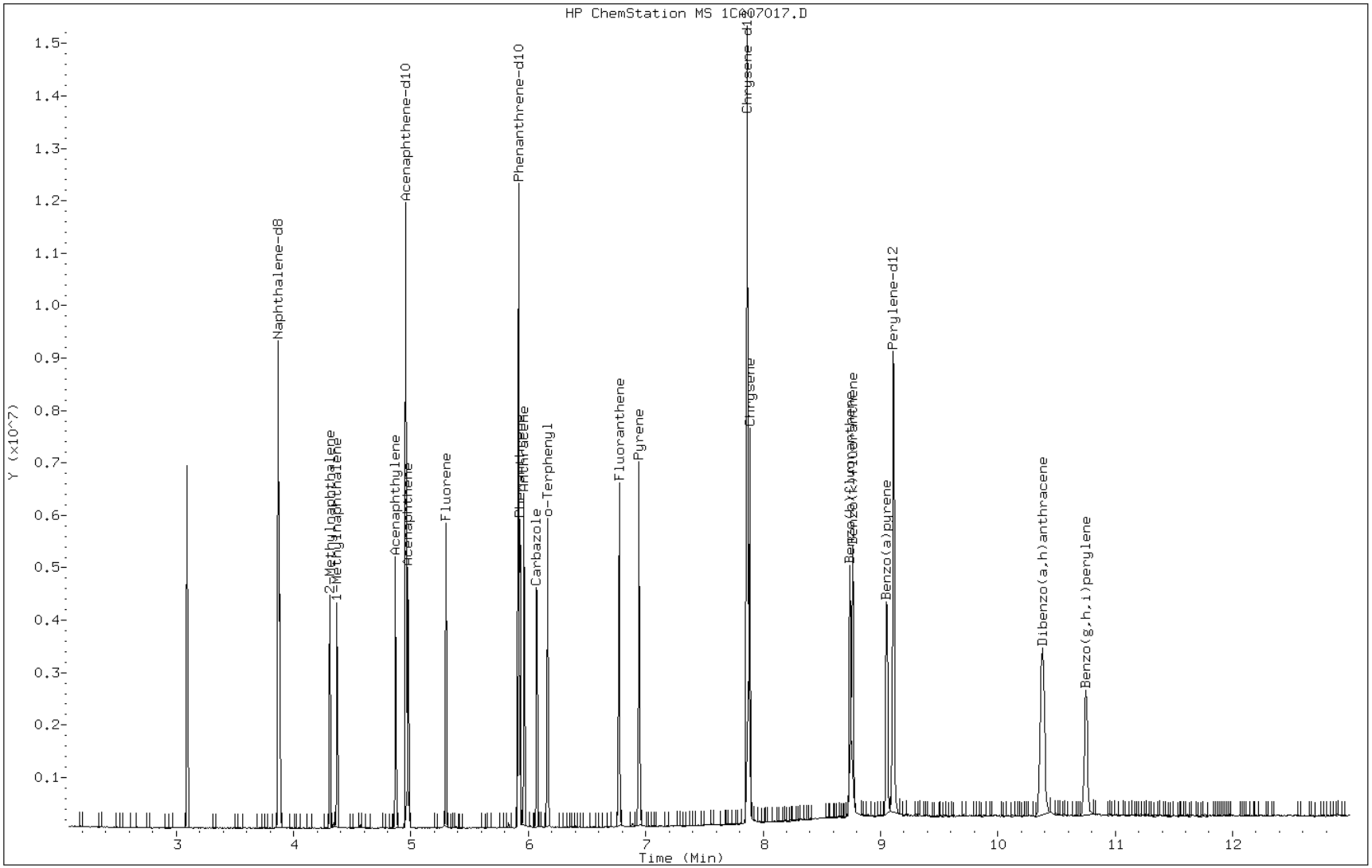
M - Compound response manually integrated.

Data File: 1CA07017.D

Date: 07-JAN-2013 16:36

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

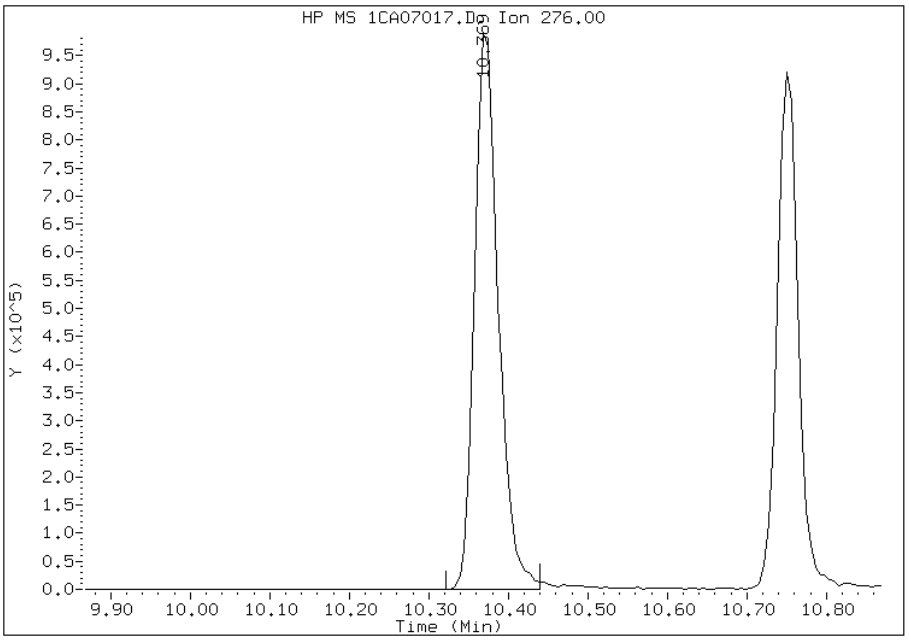
Processing Integration Results

RT: 10.37

Response: 2044337

Amount: 23

Conc: 23



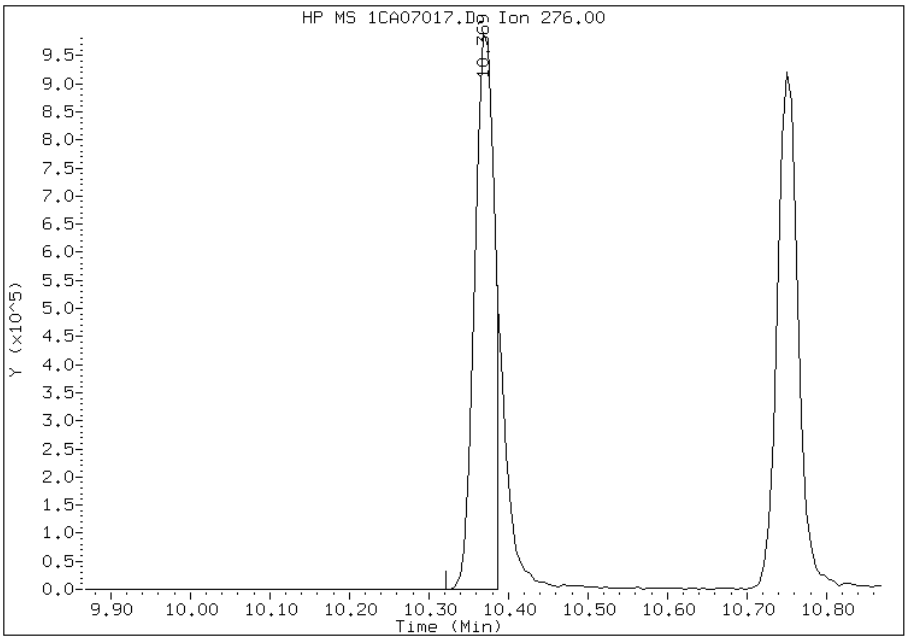
Manual Integration Results

RT: 10.37

Response: 1706161

Amount: 23

Conc: 23



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

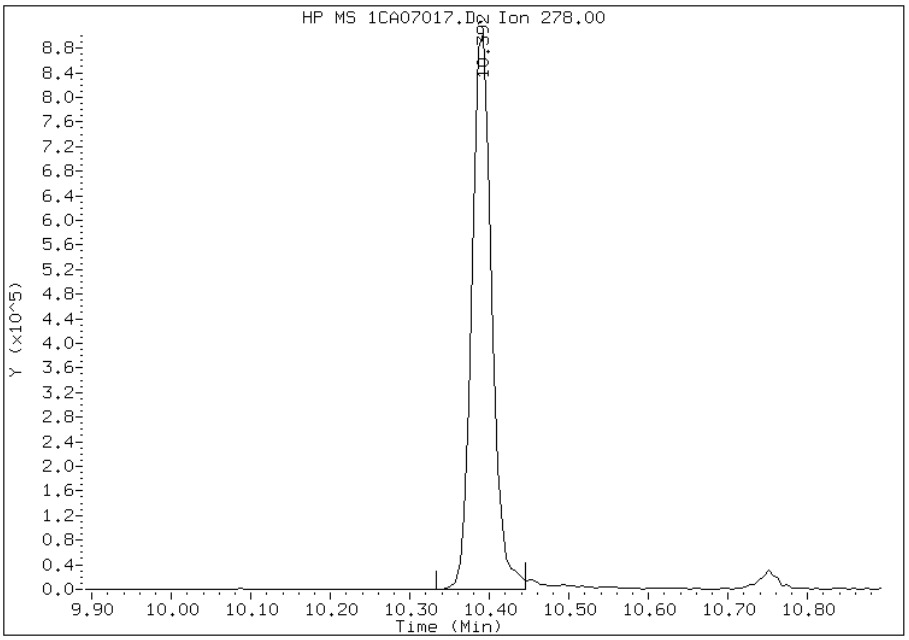
Processing Integration Results

RT: 10.39

Response: 1569221

Amount: 19

Conc: 19



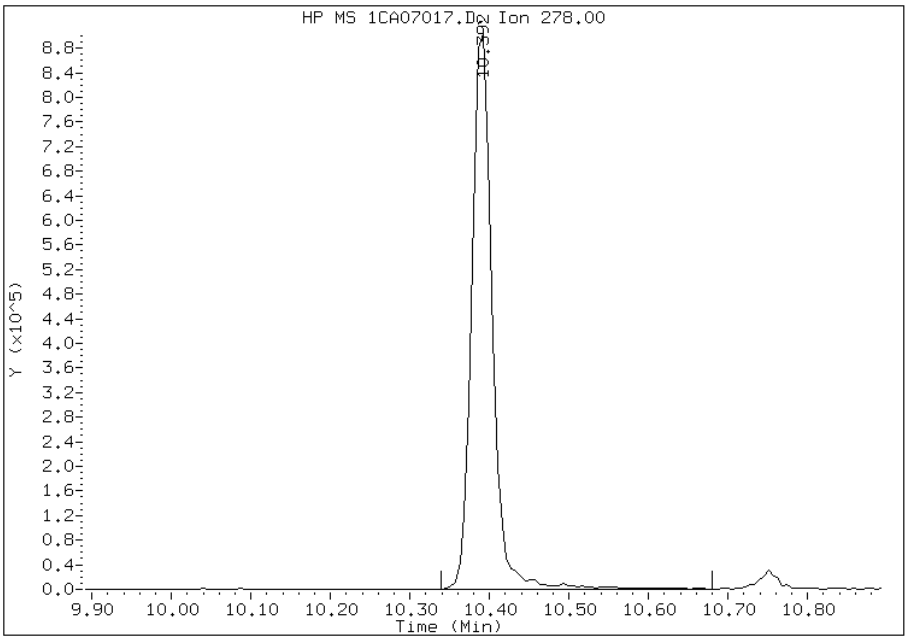
Manual Integration Results

RT: 10.39

Response: 1627151

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

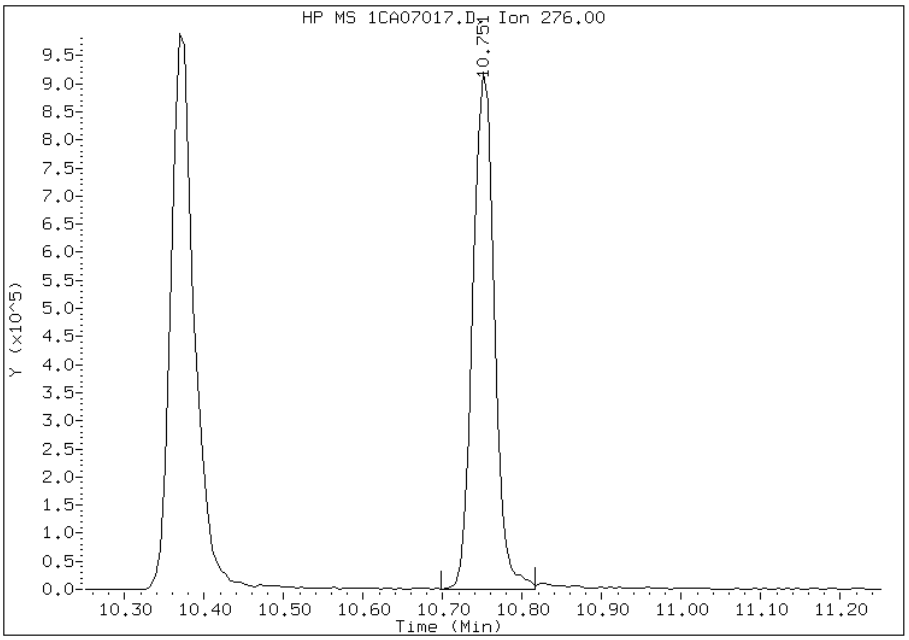
Processing Integration Results

RT: 10.75

Response: 1711397

Amount: 19

Conc: 19



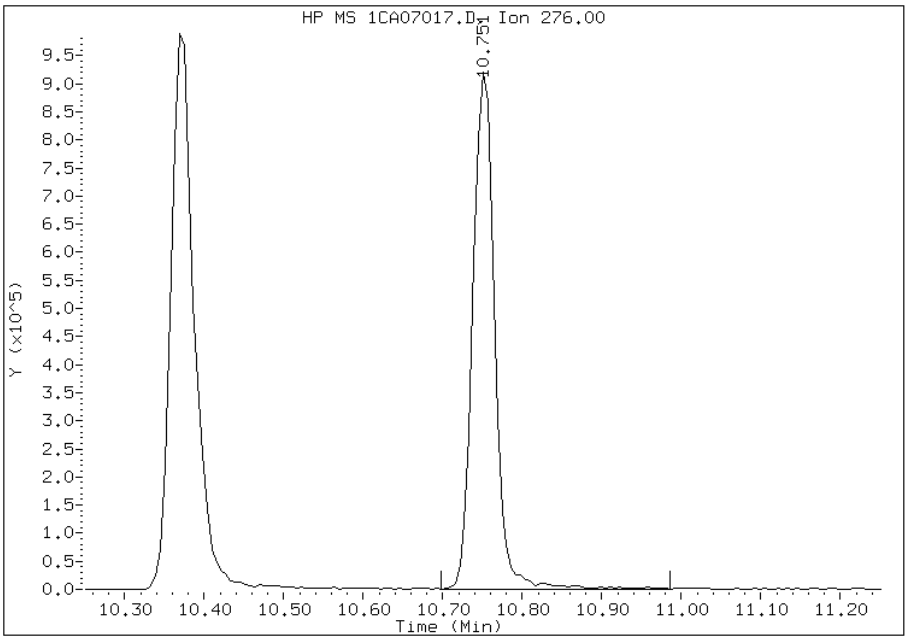
Manual Integration Results

RT: 10.75

Response: 1745002

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07018.D
Lab Smp Id: IC-1489899
Inj Date : 07-JAN-2013 16:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:36 Cal File: 1CA07017.D
Als bottle: 18 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2206384	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1682844	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	3224181	40.0000	
$ 14 o-Terphenyl	230	6.169	6.169	(1.043)	1447125	30.0000	30.6324
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3659777	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3629385	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1744899	30.0000	29.8445
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1125305	30.0000	29.6006
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1099203	30.0000	31.7916
5 Acenaphthylene	152	4.869	4.869	(0.982)	2078096	30.0000	31.0392
7 Acenaphthene	154	4.974	4.974	(1.004)	1212087	30.0000	28.8657
9 Fluorene	166	5.298	5.298	(1.069)	1642686	30.0000	30.4758
11 Phenanthrene	178	5.927	5.927	(1.002)	2725408	30.0000	28.3189
12 Anthracene	178	5.963	5.963	(1.008)	2681981	30.0000	30.9308
13 Carbazole	167	6.074	6.074	(1.027)	2392859	30.0000	31.7704
15 Fluoranthene	202	6.774	6.774	(1.145)	2977438	30.0000	31.6615
16 Pyrene	202	6.945	6.945	(0.883)	3254878	30.0000	33.4065
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	2964525	30.0000	29.3740
19 Chrysene	228	7.886	7.886	(1.002)	3031738	30.0000	29.0818
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	2773683	30.0000	31.1717
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	3267104	30.0000	33.3285
22 Benzo(a)pyrene	252	9.057	9.057	(0.994)	2808161	30.0000	33.1659
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.139)	2564602	30.0000	35.6443(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	2451088	30.0000	31.9610
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	2713188	30.0000	32.8438

QC Flag Legend

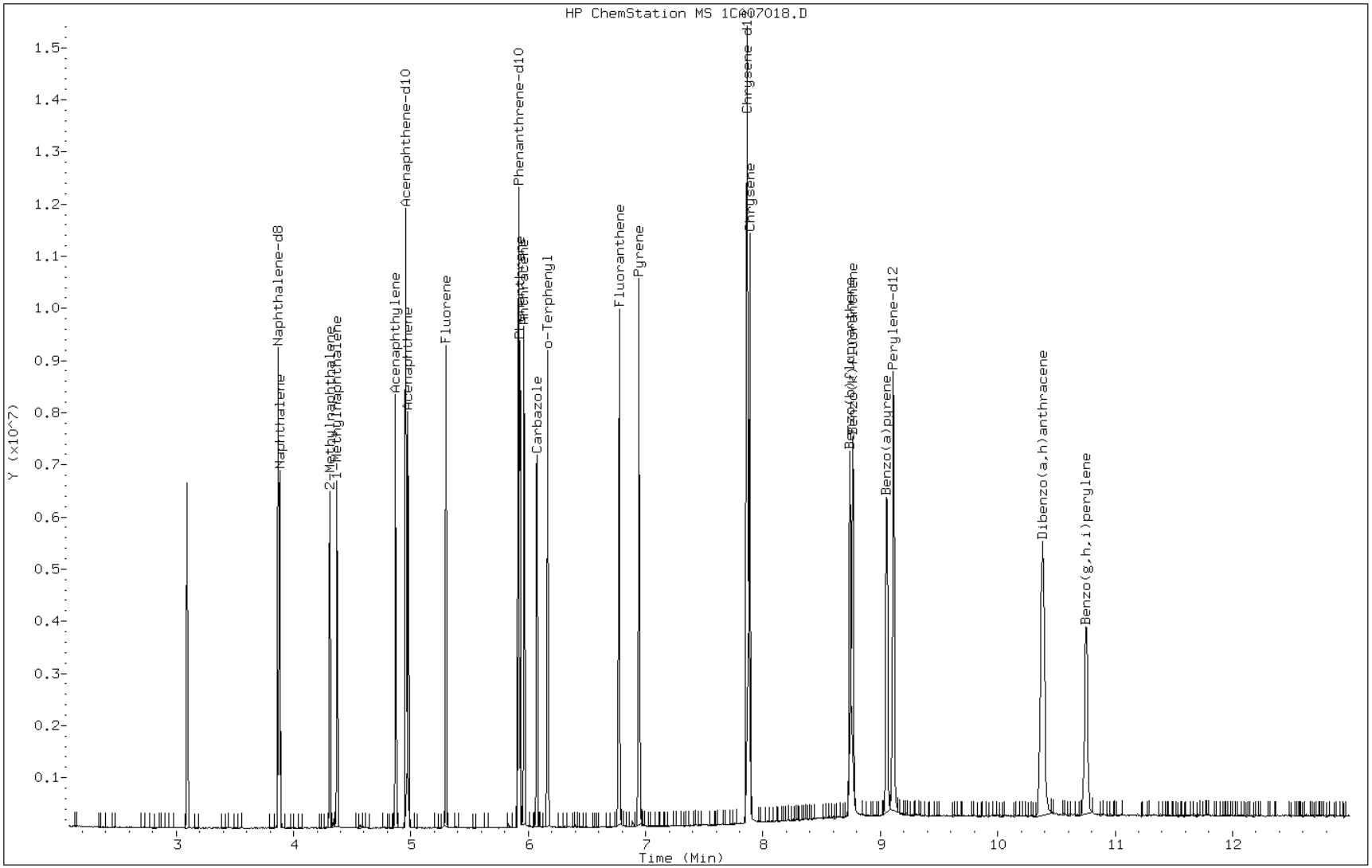
M - Compound response manually integrated.

Data File: 1CA07018.D

Date: 07-JAN-2013 16:54

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489899 Operator: SCC



Manual Integration Report

Data File: 1CA07018.D
Inj. Date and Time: 07-JAN-2013 16:54
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

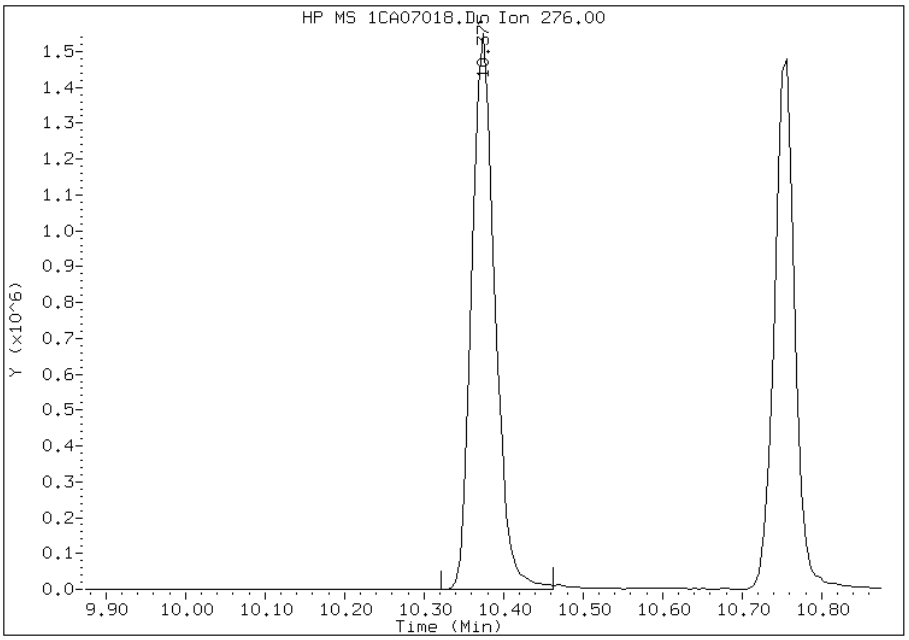
Processing Integration Results

RT: 10.37

Response: 3123860

Amount: 35

Conc: 35



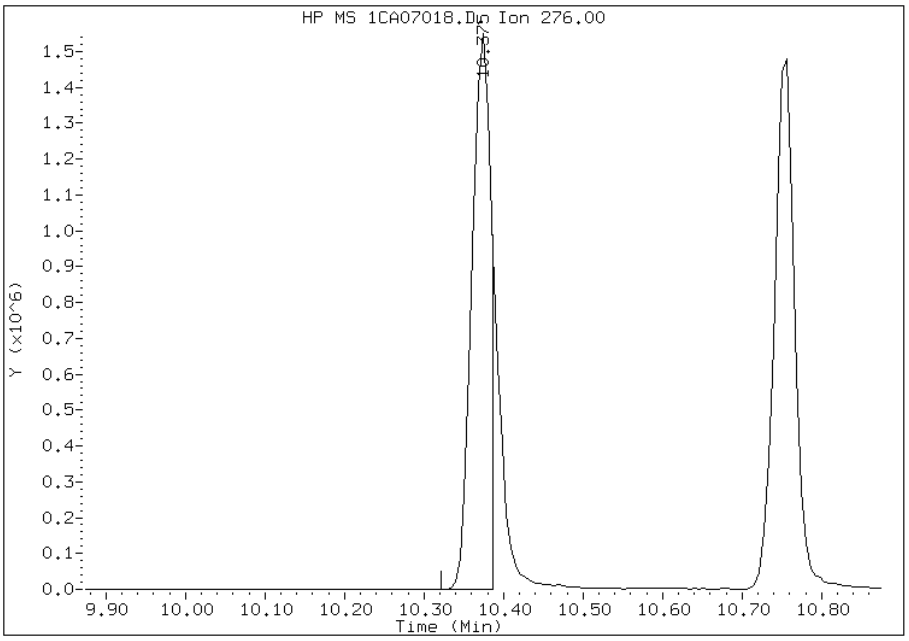
Manual Integration Results

RT: 10.37

Response: 2564602

Amount: 36

Conc: 36



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07019.D
Lab Smp Id: IC-1489900
Inj Date : 07-JAN-2013 17:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:41 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:54 Cal File: 1CA07018.D
Als bottle: 19 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)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	1965517	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1517262	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2863889	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	2145891	50.0000	51.1382(A)
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3447806	40.0000	
* 23 Perylene-d12	264	9.115	9.115	(1.000)	3425001	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	2683662	50.0000	51.5260(A)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1715115	50.0000	50.6441(A)
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1642265	50.0000	53.3190(A)
5 Acenaphthylene	152	4.869	4.869	(0.982)	3143102	50.0000	52.0699(A)
7 Acenaphthene	154	4.974	4.974	(1.004)	1826987	50.0000	48.2578
9 Fluorene	166	5.298	5.298	(1.069)	2448772	50.0000	50.3886(A)
11 Phenanthrene	178	5.933	5.933	(1.003)	3980821	50.0000	46.5673
12 Anthracene	178	5.963	5.963	(1.008)	4020655	50.0000	52.2031(A)
13 Carbazole	167	6.074	6.074	(1.027)	3531798	50.0000	52.7916(A)
15 Fluoranthene	202	6.774	6.774	(1.145)	4473693	50.0000	53.5573(A)
16 Pyrene	202	6.945	6.945	(0.883)	4789001	50.0000	52.1740(A)
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	4538204	50.0000	47.7313
19 Chrysene	228	7.892	7.892	(1.003)	4663655	50.0000	47.4863
20 Benzo(b)fluoranthene	252	8.745	8.745	(0.959)	4834833	50.0000	57.5782(A)
21 Benzo(k)fluoranthene	252	8.768	8.768	(0.962)	4750961	50.0000	51.3578(A)
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	4467973	50.0000	55.9181(A)
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.138)	3772962	50.0000	55.5680(AM)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	3909634	50.0000	54.0220(A)
26 Benzo(g,h,i)perylene	276	10.762	10.762	(1.181)	4151782	50.0000	53.2574(A)

QC Flag Legend

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

Data File: 1CA07019.D

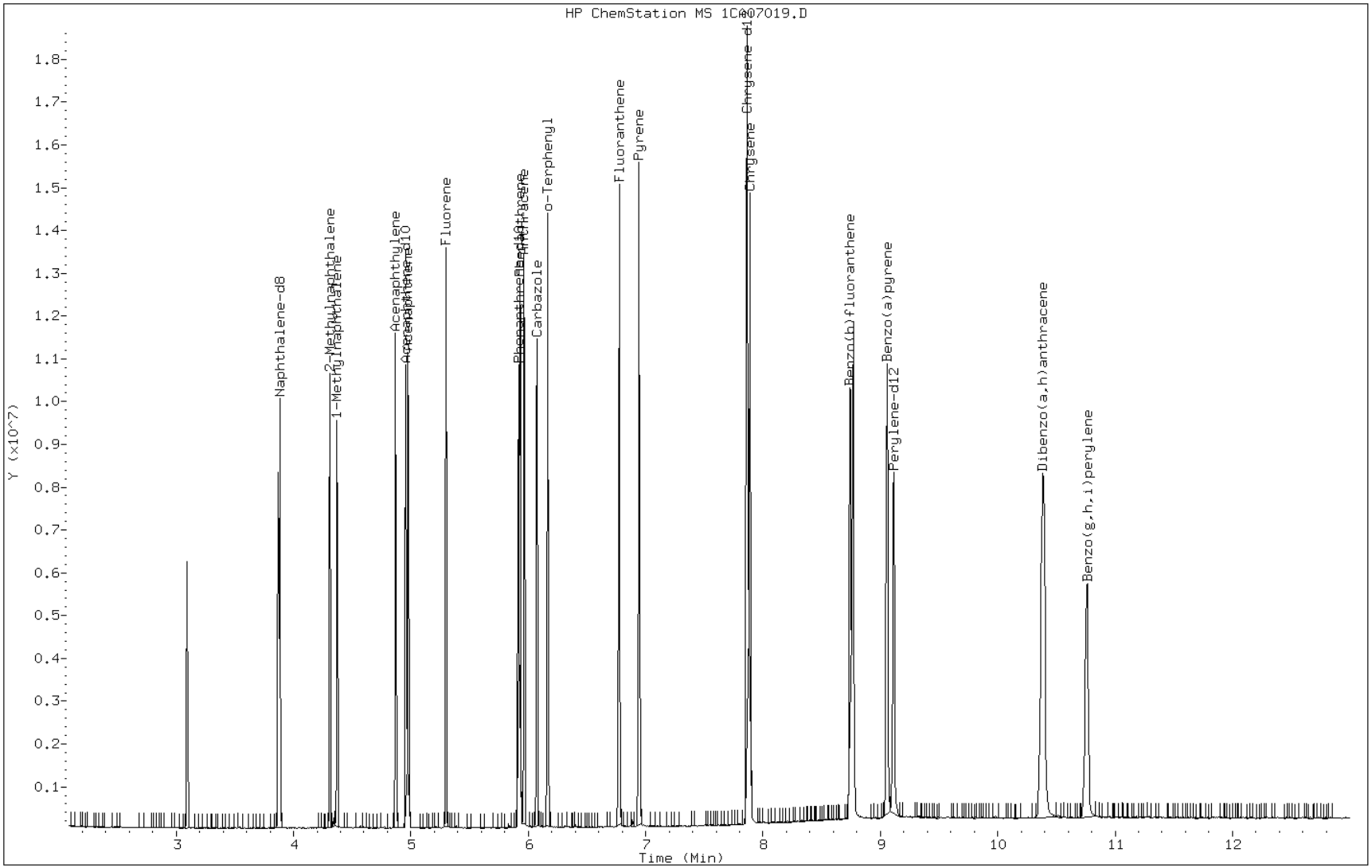
Date: 07-JAN-2013 17:13

Client ID:

Instrument: BSMC5973.i

Sample Info: IC-1489900

Operator: SCC



Manual Integration Report

Data File: 1CA07019.D
Inj. Date and Time: 07-JAN-2013 17:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

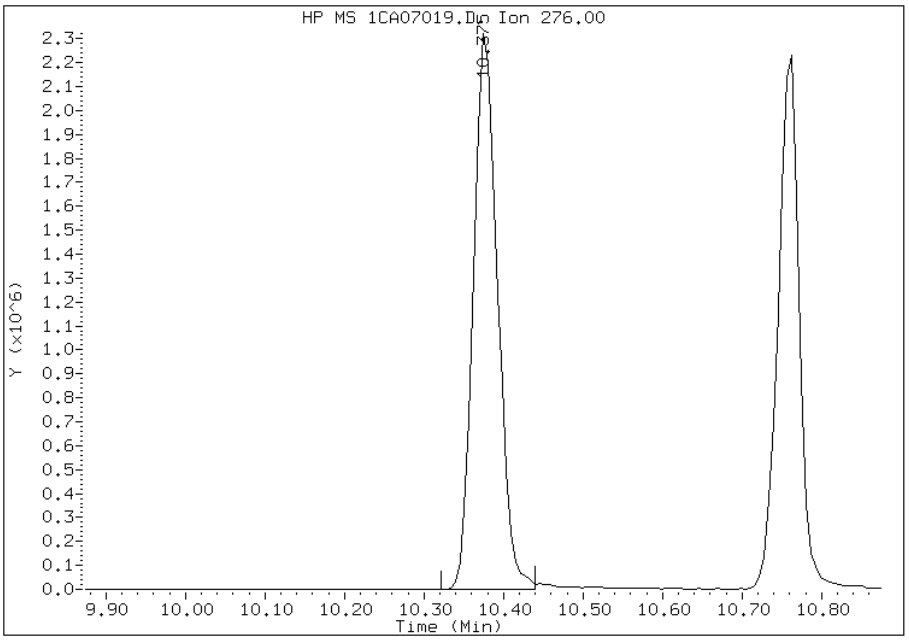
Processing Integration Results

RT: 10.37

Response: 4872897

Amount: 57

Conc: 57



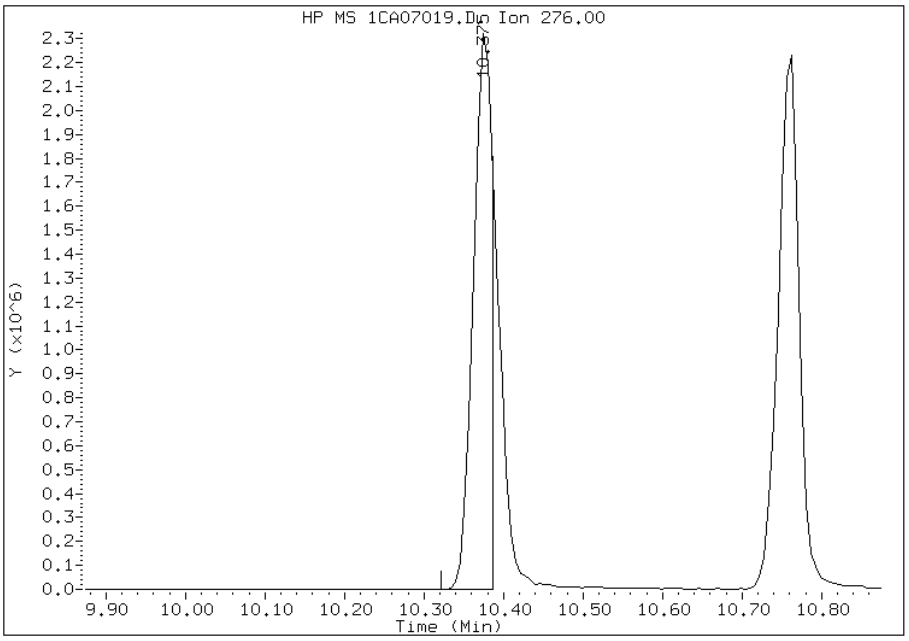
Manual Integration Results

RT: 10.37

Response: 3772962

Amount: 56

Conc: 56



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:40
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Lab Sample ID: ICV 660-133924/10 Calibration Date: 01/30/2013 13:35

Instrument ID: BSMA5973 Calib Start Date: 01/30/2013 11:38

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/30/2013 13:20

Lab File ID: 1AA30010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9709	1.081	0.0000	22300	20000	11.3	35.0
2-Methylnaphthalene	Ave	0.5201	0.6432	0.0000	24700	20000	23.7	35.0
1-Methylnaphthalene	Ave	0.5888	0.6870	0.0000	23300	20000	16.7	35.0
Acenaphthylene	Ave	1.766	1.803	0.0000	20400	20000	2.1	35.0
Acenaphthene	Ave	0.9559	0.9878	0.0000	20700	20000	3.3	35.0
Fluorene	Ave	1.202	1.257	0.0000	20900	20000	4.6	35.0
Phenanthrene	Ave	1.092	1.109	0.0000	20300	20000	1.6	35.0
Anthracene	Ave	1.114	1.151	0.0000	20700	20000	3.4	35.0
Carbazole	Ave	0.9545	1.015	0.0000	21300	20000	6.4	35.0
Fluoranthene	Ave	1.083	1.202	0.0000	22200	20000	11.0	35.0
Pyrene	Ave	1.445	1.459	0.0000	20200	20000	1.0	35.0
Benzo[a]anthracene	LinF	1.313	1.281	0.0000	21500	20000	7.3	35.0
Chrysene	Ave	1.164	1.204	0.0000	20700	20000	3.4	35.0
Benzo[b]fluoranthene	Ave	1.116	1.303	0.0000	23300	20000	16.7	35.0
Benzo[k]fluoranthene	Ave	1.167	1.133	0.0000	19400	20000	-2.9	35.0
Benzo[a]pyrene	Ave	1.060	0.9876	0.0000	18600	20000	-6.8	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.8371	0.9115	0.0000	21800	20000	8.9	35.0
Dibenz(a,h)anthracene	Ave	0.8369	0.9680	0.0000	23100	20000	15.7	35.0
Benzo[g,h,i]perylene	Ave	0.8673	0.9214	0.0000	21200	20000	6.2	35.0
o-Terphenyl	Ave	0.5812	0.6137	0.0000	21100	20000	5.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30010.D
Lab Smp Id: ICV-1448440
Inj Date : 30-JAN-2013 13:35
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-bFASTPAHi-m.m
Meth Date : 30-Jan-2013 13:34 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.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	2.507	2.509	(1.000)	1317903	40.0000	
* 6 Acenaphthene-d10	164	3.543	3.540	(1.000)	820848	40.0000	
* 10 Phenanthrene-d10	188	4.499	4.501	(1.000)	1272419	40.0000	
$ 14 o-Terphenyl	230	4.777	4.779	(1.062)	390413	21.1160	21.1160
* 18 Chrysene-d12	240	6.540	6.537	(1.000)	1032149	40.0000	
* 23 Perylene-d12	264	7.635	7.637	(1.000)	982321	40.0000	
2 Naphthalene	128	2.517	2.519	(1.004)	712111	22.2614	22.2614
3 2-Methylnaphthalene	141	2.923	2.925	(1.166)	423845	24.7328	24.7328
4 1-Methylnaphthalene	142	2.982	2.979	(1.190)	452724	23.3376	23.3375
5 Acenaphthylene	152	3.457	3.454	(0.976)	739875	20.4134	20.4133
7 Acenaphthene	154	3.559	3.556	(1.005)	405435	20.6673	20.6673
9 Fluorene	166	3.874	3.871	(1.093)	515972	20.9176	20.9175
11 Phenanthrene	178	4.515	4.517	(1.004)	705650	20.3109	20.3108
12 Anthracene	178	4.547	4.549	(1.011)	732417	20.6769	20.6768
13 Carbazole	167	4.702	4.704	(1.045)	645980	21.2750	21.2749(M)
15 Fluoranthene	202	5.391	5.388	(1.198)	764893	22.2062	22.2061
16 Pyrene	202	5.557	5.559	(0.850)	753079	20.2028	20.2027

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.529	6.531	(0.998)	661139	21.4526	21.4526
19 Chrysene	228	6.556	6.558	(1.002)	621167	20.6783	20.6783
20 Benzo(b)fluoranthene	252	7.357	7.359	(0.964)	639815	23.3366	23.3365
21 Benzo(k)fluoranthene	252	7.379	7.381	(0.966)	556542	19.4153	19.4152
22 Benzo(a)pyrene	252	7.587	7.594	(0.994)	485058	18.6307	18.6307
24 Indeno(1,2,3-cd)pyrene	276	8.420	8.428	(1.103)	447706	21.7774	21.7773(M)
25 Dibenzo(a,h)anthracene	278	8.436	8.444	(1.105)	475426	23.1325	23.1324
26 Benzo(g,h,i)perylene	276	8.650	8.657	(1.133)	452542	21.2477	21.2477

QC Flag Legend

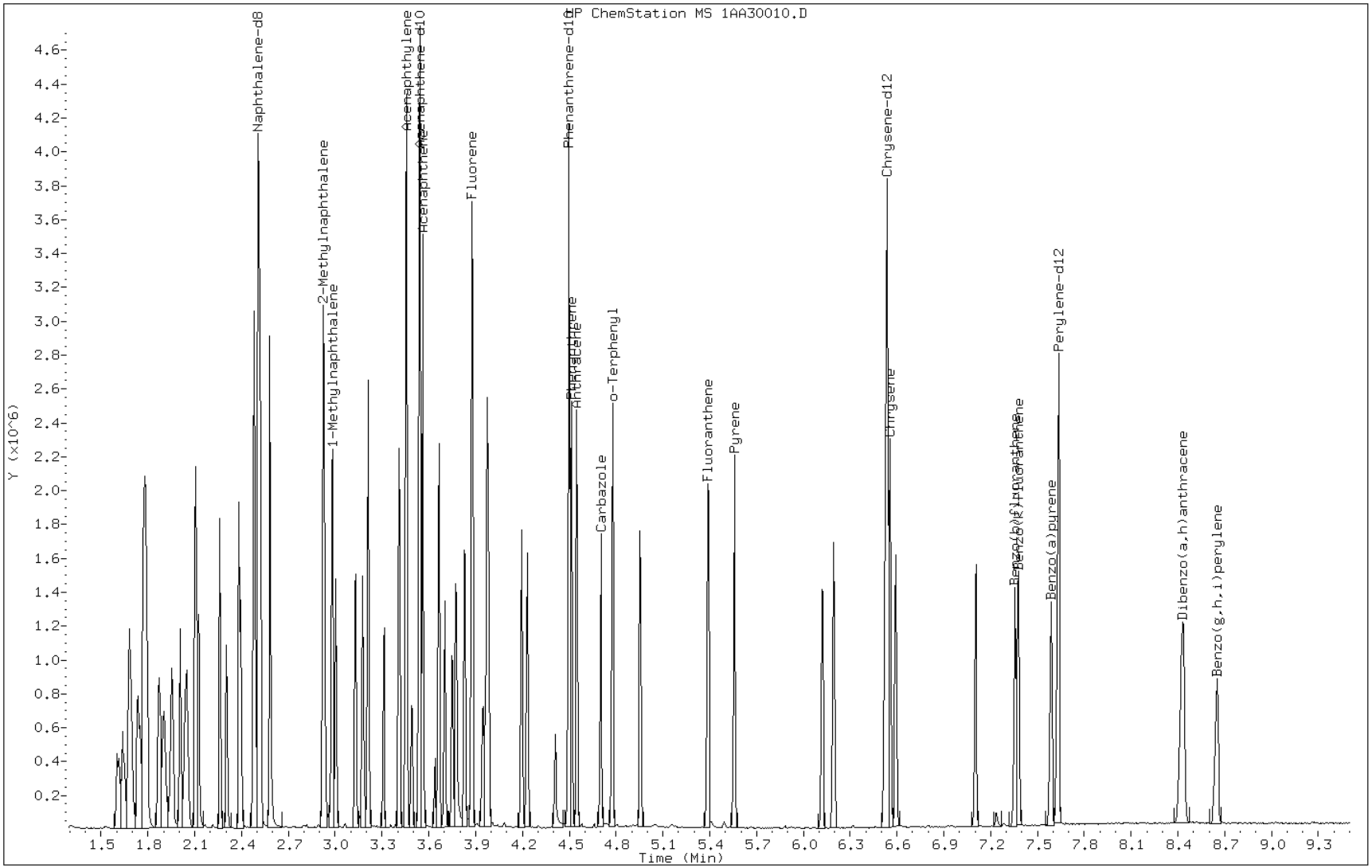
M - Compound response manually integrated.

Data File: 1AA30010.D

Date: 30-JAN-2013 13:35

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1AA30010.D
Inj. Date and Time: 30-JAN-2013 13:35
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 01/30/2013

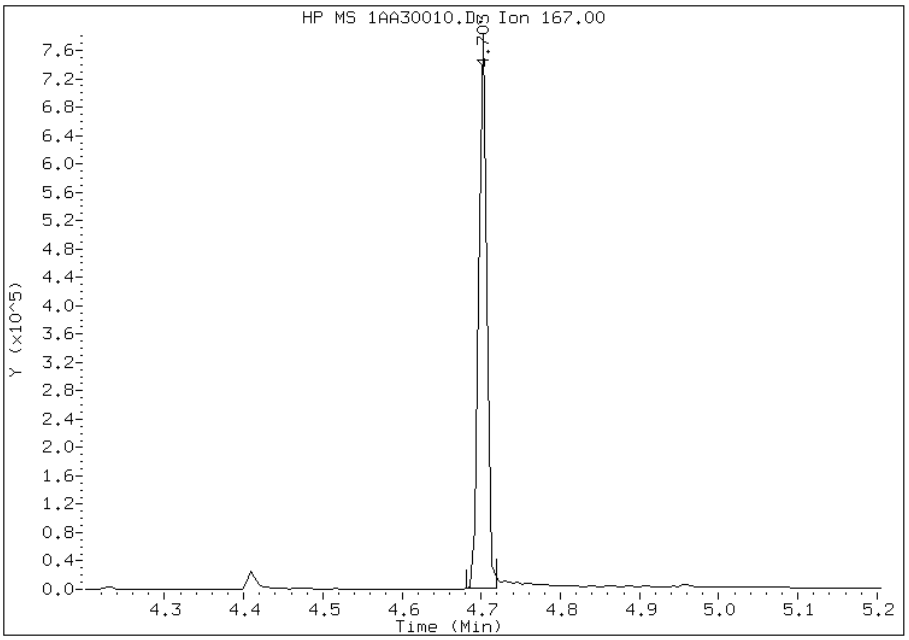
Processing Integration Results

RT: 4.70

Response: 529890

Amount: 17

Conc: 17



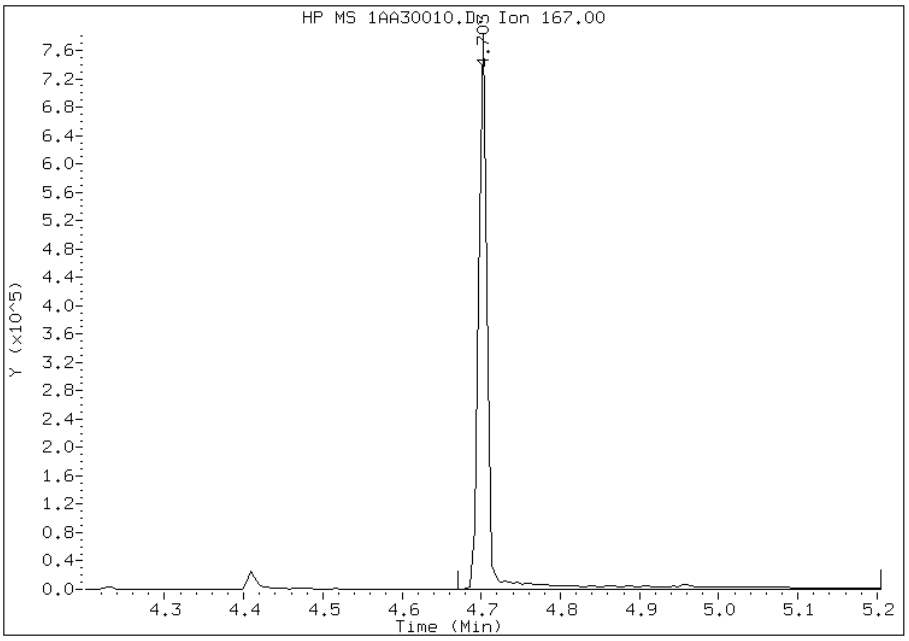
Manual Integration Results

RT: 4.70

Response: 645980

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AA30010.D
Inj. Date and Time: 30-JAN-2013 13:35
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/30/2013

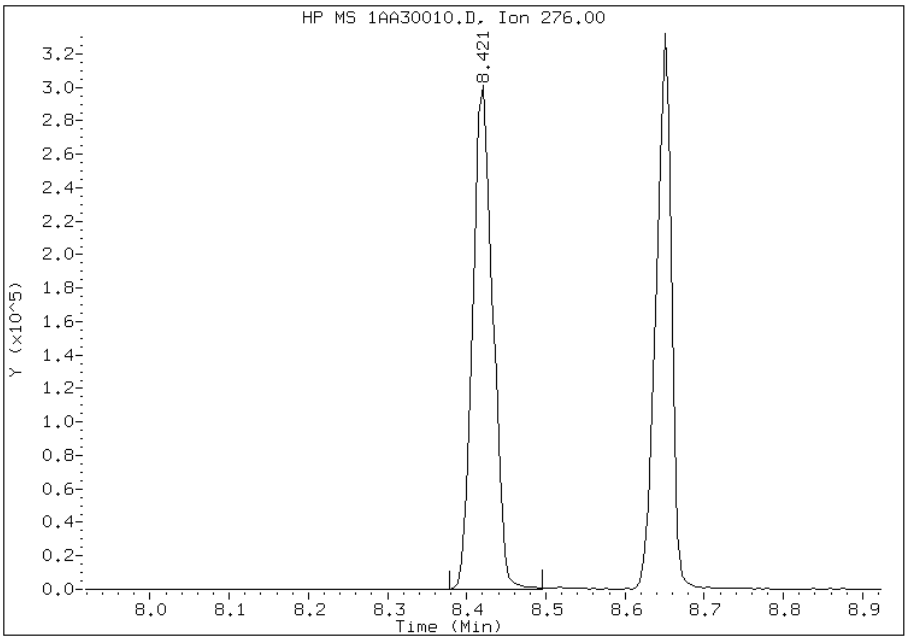
Processing Integration Results

RT: 8.42

Response: 525230

Amount: 26

Conc: 26



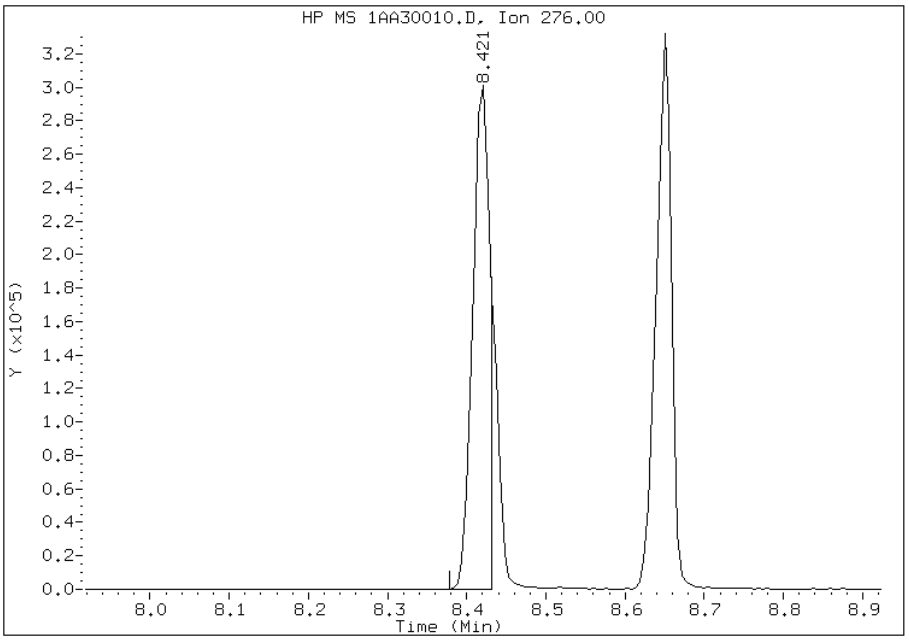
Manual Integration Results

RT: 8.42

Response: 447706

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 30-Jan-2013 13:47
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Lab Sample ID: CCVIS 660-134532/8 Calibration Date: 02/15/2013 15:21

Instrument ID: BSMA5973 Calib Start Date: 01/30/2013 11:38

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/30/2013 13:20

Lab File ID: 1AB15006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9709	0.9256	0.0000	19100	20000	-4.7	20.0
2-Methylnaphthalene	Ave	0.5201	0.4843	0.0000	18600	20000	-6.9	20.0
1-Methylnaphthalene	Ave	0.5888	0.5342	0.0000	18100	20000	-9.3	20.0
Acenaphthylene	Ave	1.766	1.569	0.0000	17800	20000	-11.2	20.0
Acenaphthene	Ave	0.9559	0.8712	0.0000	18200	20000	-8.9	20.0
Fluorene	Ave	1.202	1.114	0.0000	18500	20000	-7.3	20.0
Phenanthrene	Ave	1.092	1.004	0.0000	18400	20000	-8.1	20.0
Anthracene	Ave	1.114	1.000	0.0000	18000	20000	-10.2	20.0
Carbazole	Ave	0.9545	0.8604	0.0000	18000	20000	-9.9	20.0
Fluoranthene	Ave	1.083	1.011	0.0000	18700	20000	-6.6	20.0
Pyrene	Ave	1.445	1.277	0.0000	17700	20000	-11.6	20.0
Benzo[a]anthracene	LinF	1.313	1.103	0.0000	18500	20000	-7.6	20.0
Chrysene	Ave	1.164	1.078	0.0000	18500	20000	-7.4	20.0
Benzo[b]fluoranthene	Ave	1.116	0.9929	0.0000	17800	20000	-11.1	20.0
Benzo[k]fluoranthene	Ave	1.167	1.089	0.0000	18700	20000	-6.7	20.0
Benzo[a]pyrene	Ave	1.060	0.9707	0.0000	18300	20000	-8.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8371	0.9032	0.0000	21600	20000	7.9	20.0
Dibenz(a,h)anthracene	Ave	0.8369	0.7994	0.0000	19100	20000	-4.5	20.0
Benzo[g,h,i]perylene	Ave	0.8673	0.7939	0.0000	18300	20000	-8.5	20.0
o-Terphenyl	Ave	0.5812	0.5665	0.0000	19500	20000	-2.5	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15006.D
Lab Smp Id: CCVIS-1489898
Inj Date : 15-FEB-2013 15:21
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.415	2.415	(1.000)	1368017	40.0000	(H)
* 6 Acenaphthene-d10	164	3.441	3.441	(1.000)	840321	40.0000	(H)
* 10 Phenanthrene-d10	188	4.386	4.386	(1.000)	1266854	40.0000	(H)
$ 14 o-Terphenyl	230	4.664	4.664	(1.063)	358819	20.0000	19.4924(H)
* 18 Chrysene-d12	240	6.411	6.411	(1.000)	1066498	40.0000	(H)
* 23 Perylene-d12	264	7.501	7.501	(1.000)	1048533	40.0000	(H)
2 Naphthalene	128	2.426	2.426	(1.004)	633095	20.0000	19.0662(H)
3 2-Methylnaphthalene	141	2.832	2.832	(1.173)	331256	20.0000	18.6218(H)
4 1-Methylnaphthalene	142	2.885	2.885	(1.195)	365397	20.0000	18.1459(H)
5 Acenaphthylene	152	3.355	3.355	(0.975)	659230	20.0000	17.7668(H)
7 Acenaphthene	154	3.462	3.462	(1.006)	366021	20.0000	18.2258(H)
9 Fluorene	166	3.772	3.772	(1.096)	468236	20.0000	18.5424(H)
11 Phenanthrene	178	4.402	4.402	(1.004)	635753	20.0000	18.3794(H)
12 Anthracene	178	4.434	4.434	(1.011)	633384	20.0000	17.9596(H)
13 Carbazole	167	4.589	4.589	(1.046)	545009	20.0000	18.0284(H)
15 Fluoranthene	202	5.262	5.262	(1.200)	640457	20.0000	18.6752(H)
16 Pyrene	202	5.433	5.433	(0.848)	680876	20.0000	17.6774(H)
17 Benzo(a)anthracene	228	6.395	6.395	(0.997)	588343	20.0000	18.4756(H)
19 Chrysene	228	6.427	6.427	(1.002)	574660	20.0000	18.5139(H)
20 Benzo(b)fluoranthene	252	7.217	7.217	(0.962)	520555	20.0000	17.7877(H)
21 Benzo(k)fluoranthene	252	7.239	7.239	(0.965)	571010	20.0000	18.6620(H)
22 Benzo(a)pyrene	252	7.452	7.452	(0.994)	508919	20.0000	18.3128(H)
24 Indeno(1,2,3-cd)pyrene	276	8.238	8.238	(1.098)	473511	20.0000	21.5781(MH)
25 Dibenzo(a,h)anthracene	278	8.254	8.254	(1.100)	419118	20.0000	19.1049(H)
26 Benzo(g,h,i)perylene	276	8.446	8.446	(1.126)	416199	20.0000	18.3073(H)

QC Flag Legend

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

Data File: 1AB15006.D

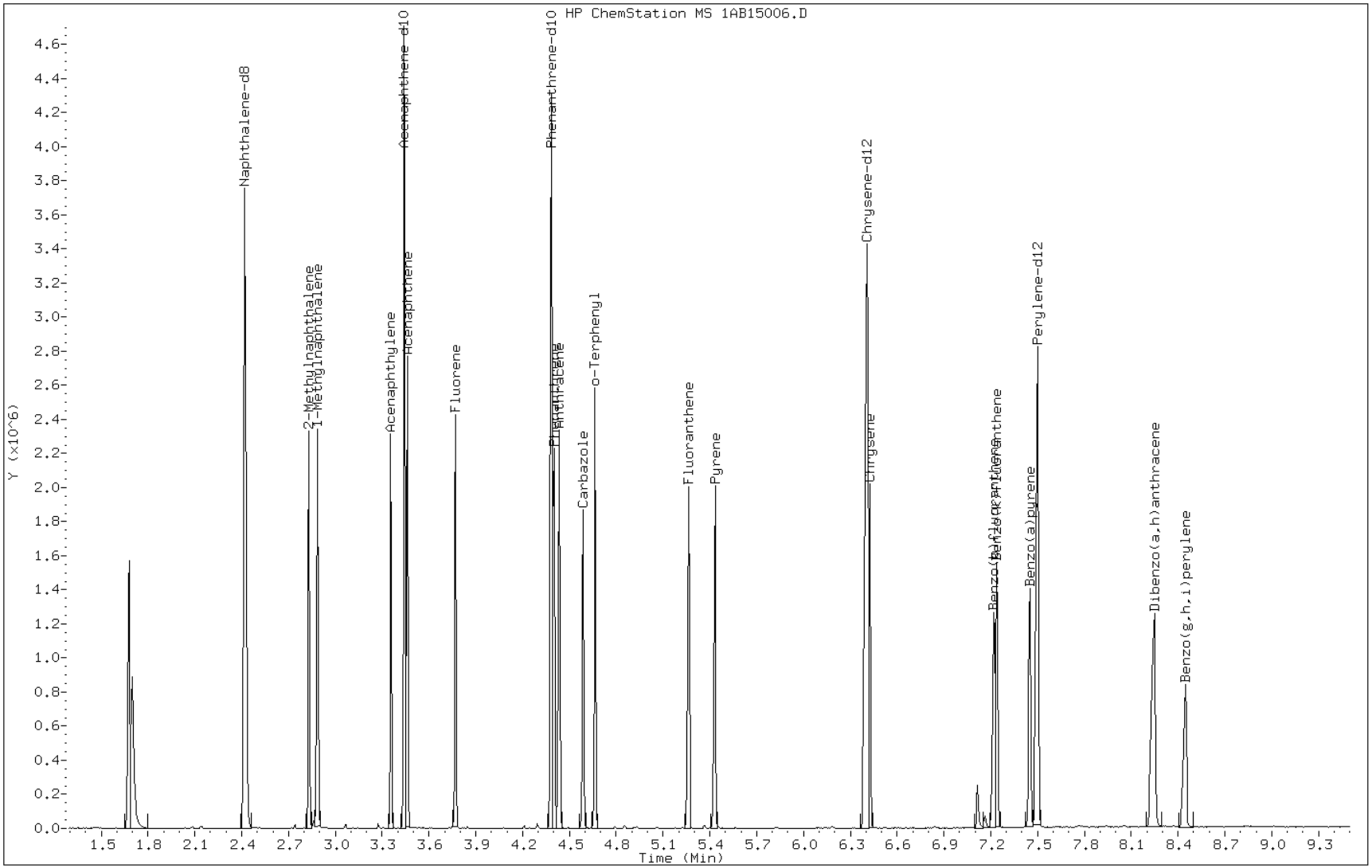
Date: 15-FEB-2013 15:21

Client ID:

Instrument: BSMA5973.i

Sample Info: CCVIS-1489898

Operator: SCC



Manual Integration Report

Data File: 1AB15006.D
Inj. Date and Time: 15-FEB-2013 15:21
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

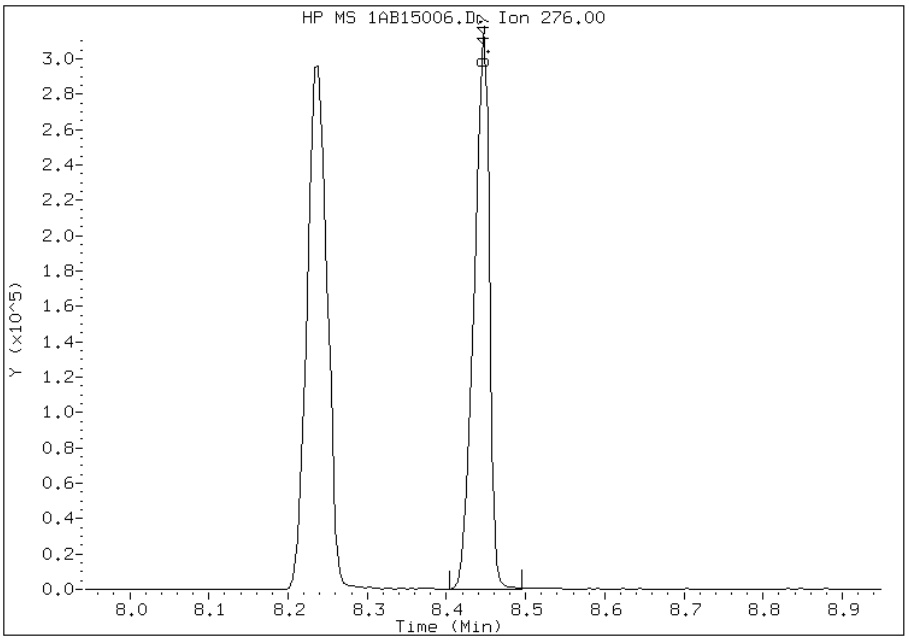
Processing Integration Results

RT: 8.45

Response: 416199

Amount: 19

Conc: 19



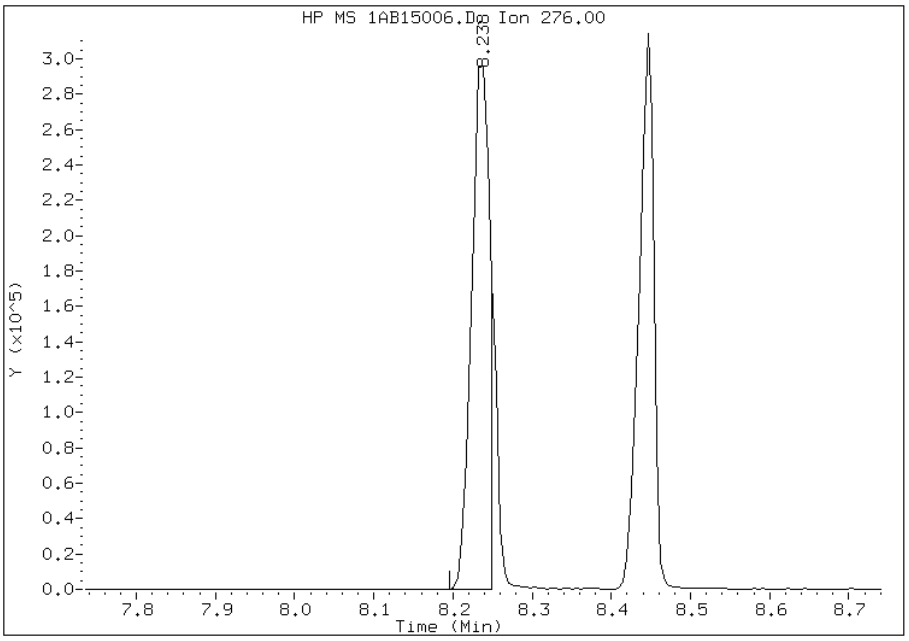
Manual Integration Results

RT: 8.24

Response: 473511

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 15:35
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Lab Sample ID: ICV 660-133227/10 Calibration Date: 01/07/2013 17:31

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CA07020.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.007	0.0000	19000	20000	-5.0	35.0
2-Methylnaphthalene	Ave	0.6892	0.6589	0.0000	19100	20000	-4.4	35.0
1-Methylnaphthalene	Ave	0.6268	0.6593	0.0000	21000	20000	5.2	35.0
Acenaphthylene	Ave	1.591	1.636	0.0000	20600	20000	2.8	35.0
Acenaphthene	Ave	0.998	0.995	0.0000	19900	20000	-0.3	35.0
Fluorene	Ave	1.281	1.256	0.0000	19600	20000	-1.9	35.0
Phenanthrene	Ave	1.194	1.049	0.0000	17600	20000	-12.2	35.0
Anthracene	Ave	1.076	1.057	0.0000	19700	20000	-1.7	35.0
Carbazole	Ave	0.9344	0.9714	0.0000	20800	20000	4.0	35.0
Fluoranthene	Ave	1.167	1.235	0.0000	21200	20000	5.9	35.0
Pyrene	Ave	1.065	1.062	0.0000	19900	20000	-0.3	35.0
Benzo[a]anthracene	Ave	1.103	1.074	0.0000	19500	20000	-2.6	35.0
Chrysene	Ave	1.139	1.025	0.0000	18000	20000	-10.0	35.0
Benzo[b]fluoranthene	Ave	0.9807	0.9511	0.0000	19400	20000	-3.0	35.0
Benzo[k]fluoranthene	Ave	1.080	1.106	0.0000	20500	20000	2.4	35.0
Benzo[a]pyrene	Ave	0.9332	0.8638	0.0000	18500	20000	-7.4	35.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.8346	0.0000	18600	20000	-6.9	35.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8921	0.0000	21100	20000	5.5	35.0
Benzo[g,h,i]perylene	Ave	0.9104	0.8897	0.0000	19500	20000	-2.3	35.0
o-Terphenyl	Ave	0.5861	0.5611	0.0000	19100	20000	-4.3	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07020.D
Lab Smp Id: ICV-1448440
Inj Date : 07-JAN-2013 17:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:43 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 20 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

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

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2417094	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1838803	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.916	(1.000)	3573060	40.0000	
$ 14 o-Terphenyl	230	6.168	6.169	(1.043)	1002344	19.1457	19.1456
* 18 Chrysene-d12	240	7.868	7.869	(1.000)	4267463	40.0000	
* 23 Perylene-d12	264	9.115	9.116	(1.000)	4342564	40.0000	
2 Naphthalene	128	3.880	3.881	(1.003)	1216880	18.9990	18.9989
3 2-Methylnaphthalene	142	4.310	4.309	(1.114)	796260	19.1194	19.1193
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	796834	21.0373	21.0373
5 Acenaphthylene	152	4.868	4.869	(0.982)	1503892	20.5575	20.5575
7 Acenaphthene	154	4.980	4.975	(1.005)	914978	19.9420	19.9419
9 Fluorene	166	5.298	5.298	(1.069)	1155136	19.6129	19.6129
11 Phenanthrene	178	5.933	5.934	(1.003)	1873312	17.5645	17.5644
12 Anthracene	178	5.963	5.963	(1.008)	1888199	19.6500	19.6500
13 Carbazole	167	6.074	6.075	(1.027)	1735453	20.7921	20.7920
15 Fluoranthene	202	6.774	6.775	(1.145)	2206550	21.1730	21.1730
16 Pyrene	202	6.945	6.945	(0.883)	2266055	19.9459	19.9458

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	7.862	7.863	(0.999)	2292513	19.4807	19.4807
19 Chrysene	228	7.886	7.892	(1.002)	2187685	17.9970	17.9969
20 Benzo(b)fluoranthene	252	8.739	8.745	(0.959)	2065017	19.3961	19.3961
21 Benzo(k)fluoranthene	252	8.762	8.769	(0.961)	2402437	20.4829	20.4829
22 Benzo(a)pyrene	252	9.051	9.057	(0.993)	1875598	18.5138	18.5138
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.375	(1.137)	1812061	18.6227	18.6226(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	1936939	21.1089	21.1088
26 Benzo(g,h,i)perylene	276	10.750	10.763	(1.179)	1931721	19.5436	19.5436

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CA07020.D

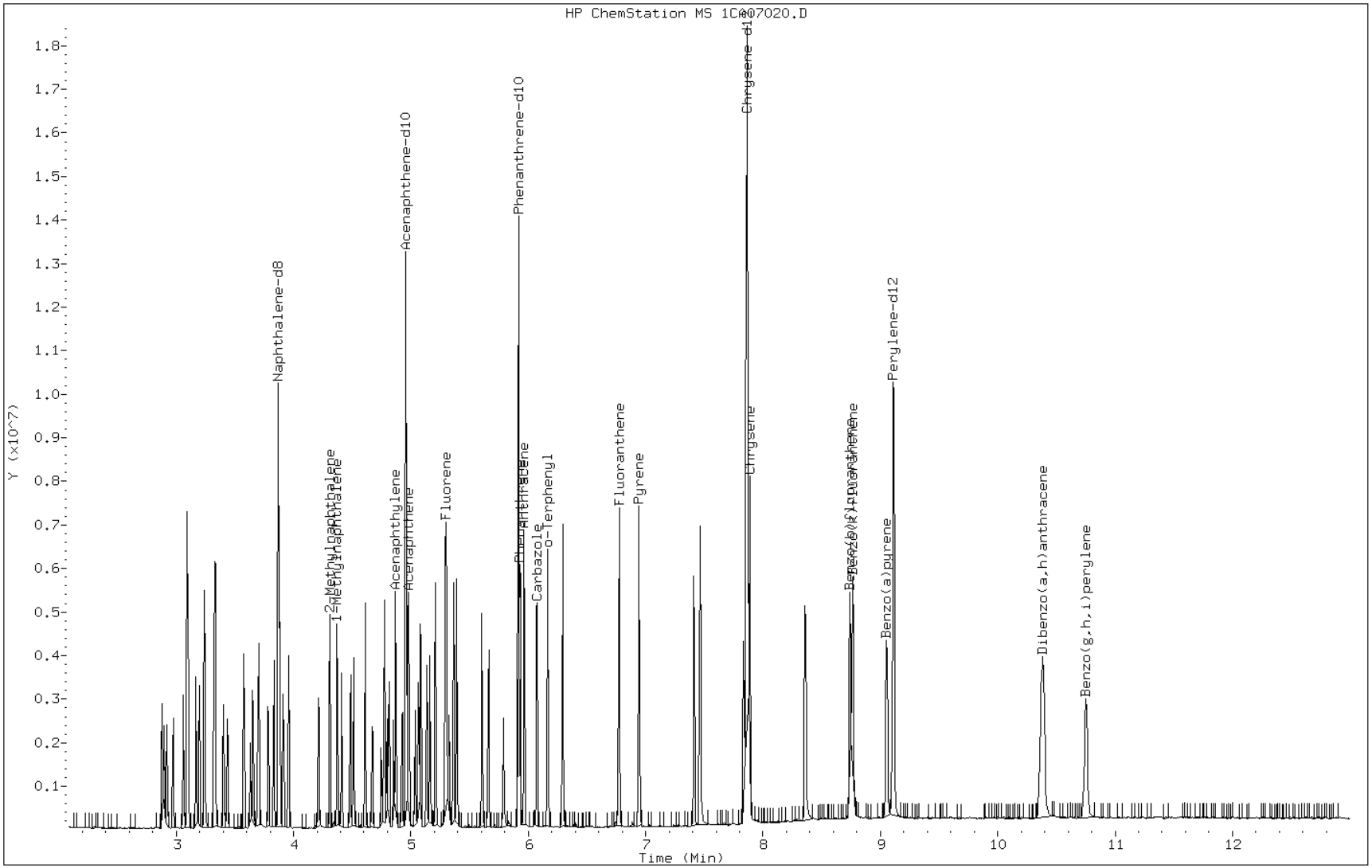
Date: 07-JAN-2013 17:31

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1CA07020.D
Inj. Date and Time: 07-JAN-2013 17:31
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

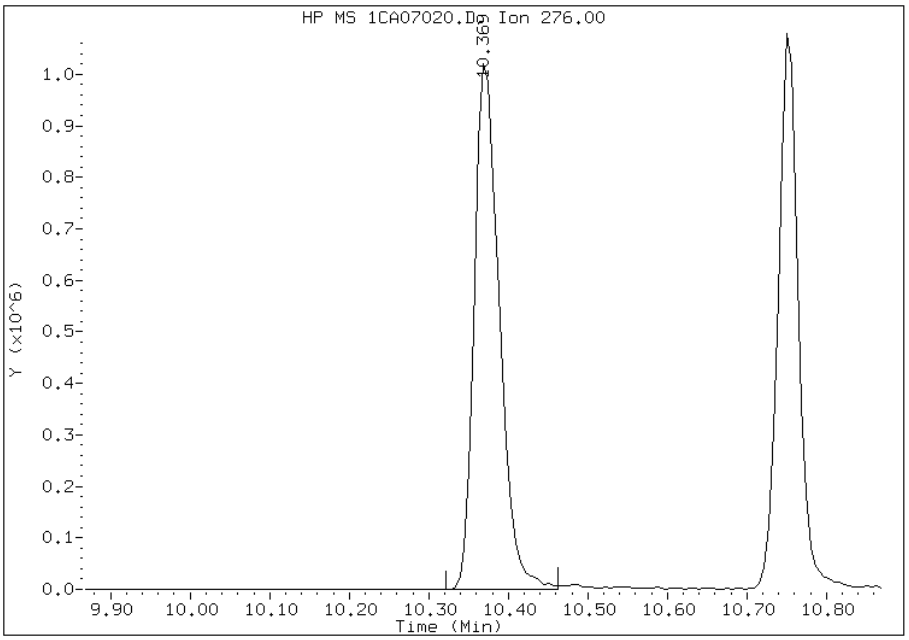
Processing Integration Results

RT: 10.37

Response: 2215563

Amount: 23

Conc: 23



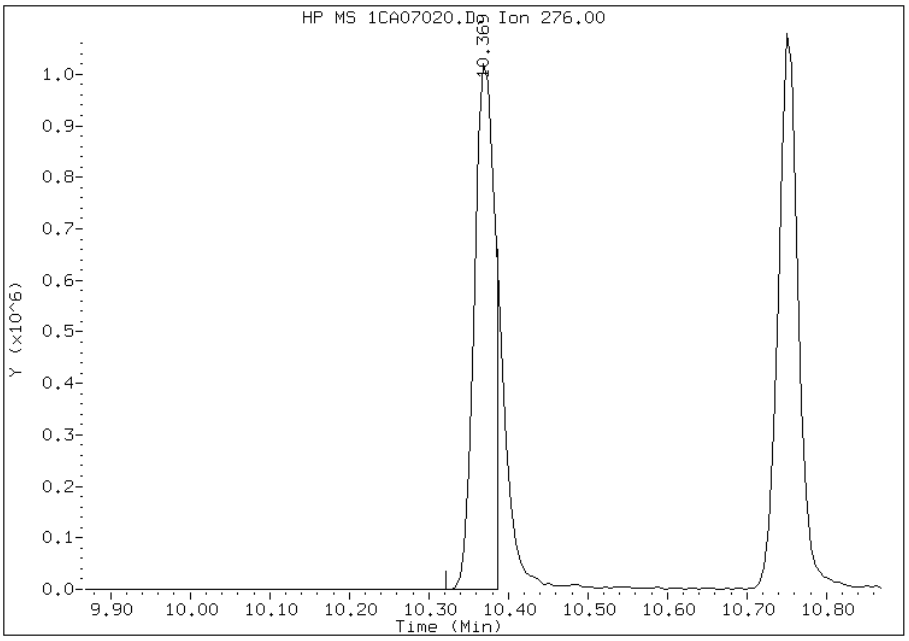
Manual Integration Results

RT: 10.37

Response: 1812061

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:44
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Lab Sample ID: CCVIS 660-134530/4 Calibration Date: 02/15/2013 11:56

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CB15004.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.060	0.0000	20000	20000	0.0	20.0
2-Methylnaphthalene	Ave	0.6892	0.6809	0.0000	19800	20000	-1.2	20.0
1-Methylnaphthalene	Ave	0.6268	0.6407	0.0000	20400	20000	2.2	20.0
Acenaphthylene	Ave	1.591	1.582	0.0000	19900	20000	-0.6	20.0
Acenaphthene	Ave	0.998	0.9393	0.0000	18800	20000	-5.9	20.0
Fluorene	Ave	1.281	1.238	0.0000	19300	20000	-3.4	20.0
Phenanthrene	Ave	1.194	1.089	0.0000	18200	20000	-8.8	20.0
Anthracene	Ave	1.076	1.108	0.0000	20600	20000	3.0	20.0
Carbazole	Ave	0.9344	0.9721	0.0000	20800	20000	4.0	20.0
Fluoranthene	Ave	1.167	1.234	0.0000	21200	20000	5.8	20.0
Pyrene	Ave	1.065	1.167	0.0000	21900	20000	9.6	20.0
Benzo[a]anthracene	Ave	1.103	1.079	0.0000	19600	20000	-2.2	20.0
Chrysene	Ave	1.139	1.065	0.0000	18700	20000	-6.5	20.0
Benzo[b]fluoranthene	Ave	0.9807	1.095	0.0000	22300	20000	11.6	20.0
Benzo[k]fluoranthene	Ave	1.080	1.070	0.0000	19800	20000	-0.9	20.0
Benzo[a]pyrene	Ave	0.9332	0.997	0.0000	21400	20000	6.8	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.8864	0.0000	19800	20000	-1.1	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8200	0.0000	19400	20000	-3.0	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.8634	0.0000	19000	20000	-5.2	20.0
o-Terphenyl	Ave	0.5861	0.5769	0.0000	19700	20000	-1.6	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15004.D
Lab Smp Id: CCVIS-1489898
Inj Date : 15-FEB-2013 11:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2569302	40.0000	(H)
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1996632	40.0000	(H)
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3819499	40.0000	(H)
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	1101673	20.0000	19.6852(H)
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	4339487	40.0000	(H)
* 23 Perylene-d12	264	9.039	9.039	(1.000)	4016358	40.0000	(H)
2 Naphthalene	128	3.833	3.833	(1.003)	1362273	20.0000	20.0089(H)
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	874660	20.0000	19.7577(H)
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	823032	20.0000	20.4417(H)
5 Acenaphthylene	152	4.821	4.821	(0.982)	1579018	20.0000	19.8782(H)
7 Acenaphthene	154	4.927	4.927	(1.004)	937736	20.0000	18.8224(H)
9 Fluorene	166	5.245	5.245	(1.068)	1235679	20.0000	19.3220(H)
11 Phenanthrene	178	5.880	5.880	(1.003)	2079382	20.0000	18.2386(H)
12 Anthracene	178	5.910	5.910	(1.008)	2116673	20.0000	20.6064(H)
13 Carbazole	167	6.015	6.015	(1.026)	1856475	20.0000	20.8069(H)
15 Fluoranthene	202	6.721	6.721	(1.146)	2356572	20.0000	21.1535(H)
16 Pyrene	202	6.886	6.886	(0.881)	2531402	20.0000	21.9116(H)
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	2341337	20.0000	19.5653(H)
19 Chrysene	228	7.833	7.833	(1.002)	2311739	20.0000	18.7018(H)
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	2198183	20.0000	22.3238(H)
21 Benzo(k)fluoranthene	252	8.698	8.698	(0.962)	2149559	20.0000	19.8154(H)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	2002073	20.0000	21.3673(H)
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.135)	1780040	20.0000	19.7793(MH)
25 Dibenzo(a,h)anthracene	278	10.280	10.280	(1.137)	1646677	20.0000	19.4031(H)
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.176)	1733826	20.0000	18.9661(H)

QC Flag Legend

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

Data File: 1CB15004.D

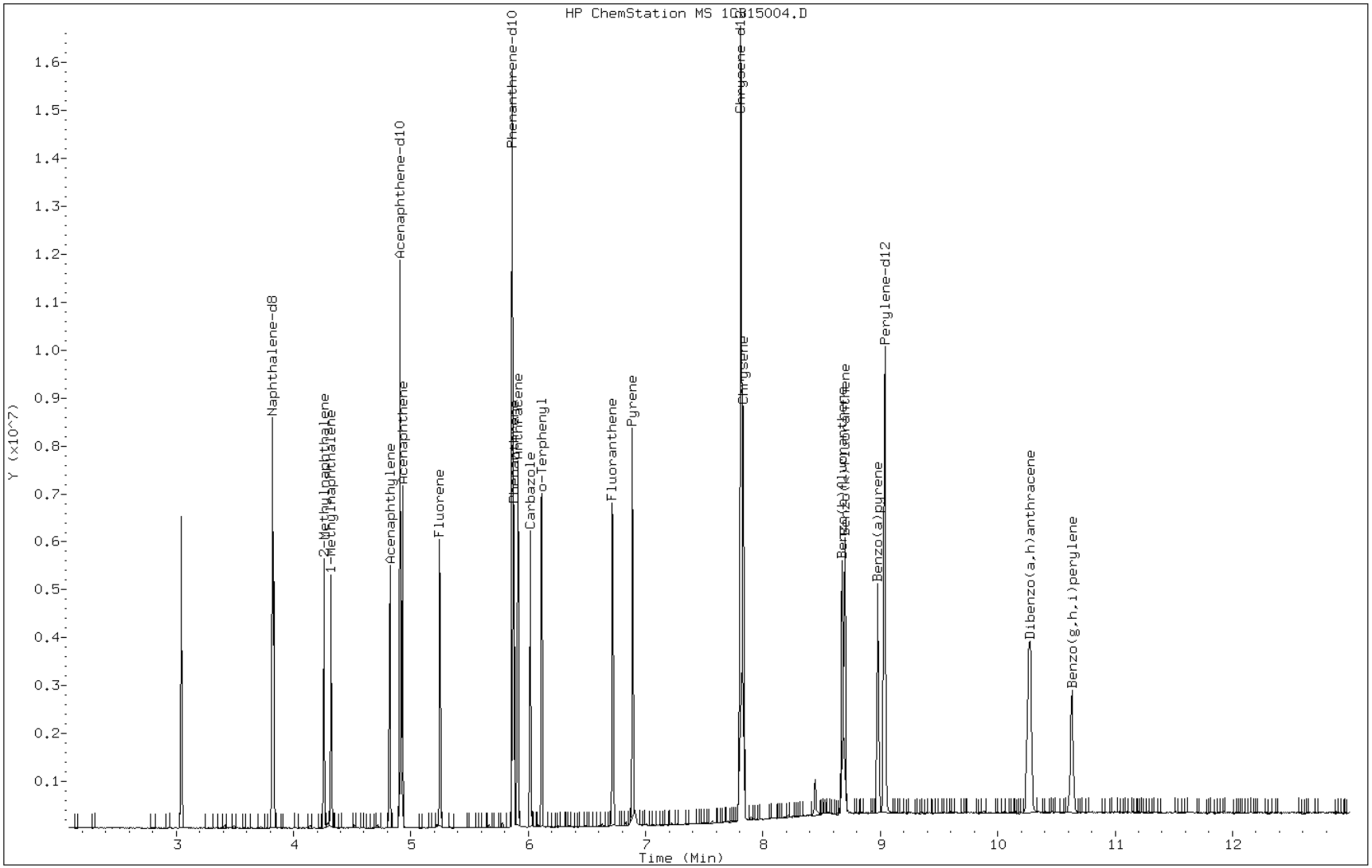
Date: 15-FEB-2013 11:56

Client ID:

Instrument: BSMC5973.i

Sample Info: CCVIS-1489898

Operator: SCC



Manual Integration Report

Data File: 1CB15004.D
Inj. Date and Time: 15-FEB-2013 11:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

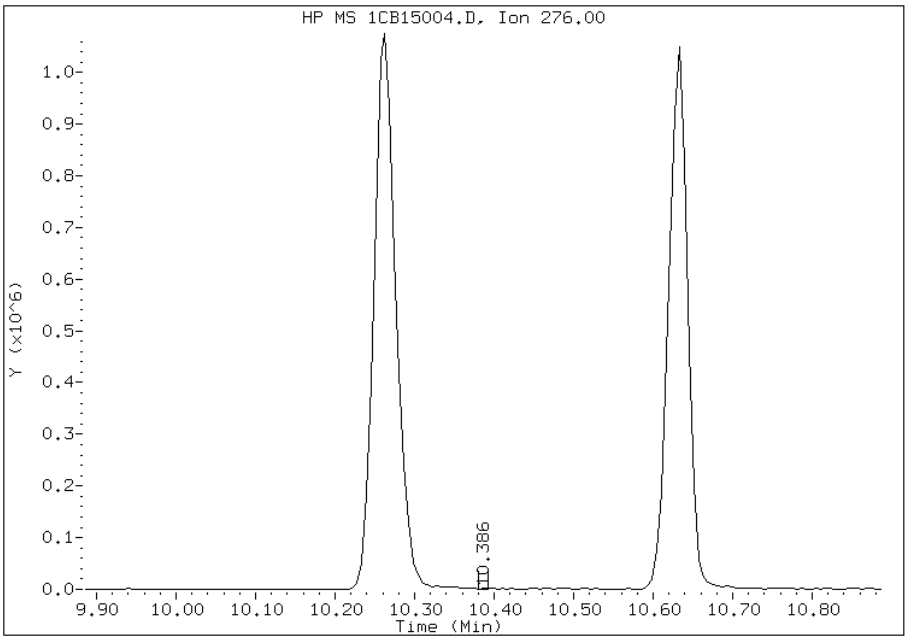
Processing Integration Results

RT: 10.39

Response: 862

Amount: 0

Conc: 0



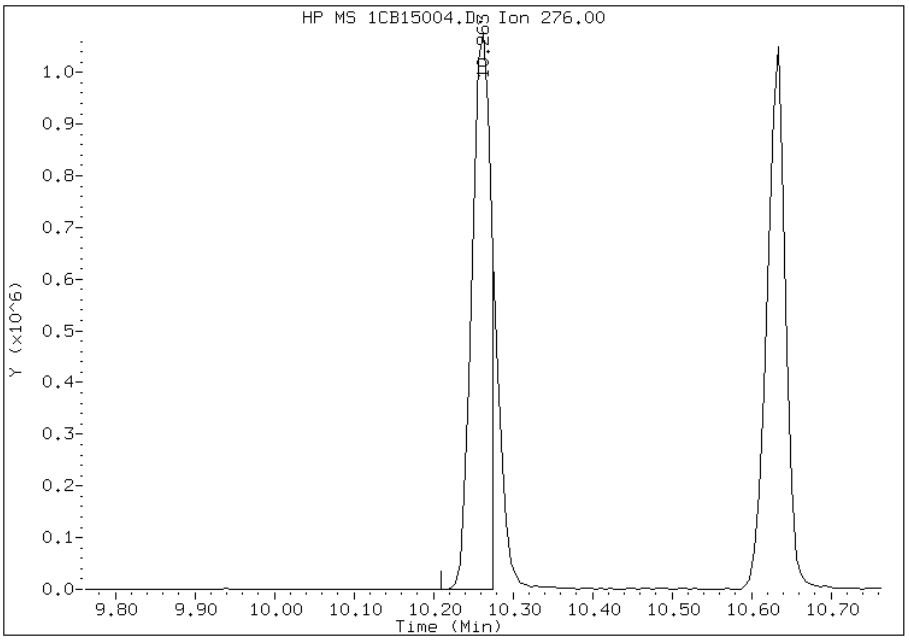
Manual Integration Results

RT: 10.26

Response: 1780040

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 12:21
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Lab Sample ID: CCVIS 660-134598/3 Calibration Date: 02/18/2013 14:07

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CB18003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.047	0.0000	19800	20000	-1.2	20.0
2-Methylnaphthalene	Ave	0.6892	0.6840	0.0000	19800	20000	-0.8	20.0
1-Methylnaphthalene	Ave	0.6268	0.6317	0.0000	20200	20000	0.8	20.0
Acenaphthylene	Ave	1.591	1.617	0.0000	20300	20000	1.6	20.0
Acenaphthene	Ave	0.998	0.9461	0.0000	19000	20000	-5.2	20.0
Fluorene	Ave	1.281	1.231	0.0000	19200	20000	-3.9	20.0
Phenanthrene	Ave	1.194	1.068	0.0000	17900	20000	-10.5	20.0
Anthracene	Ave	1.076	1.102	0.0000	20500	20000	2.5	20.0
Carbazole	Ave	0.9344	0.9797	0.0000	21000	20000	4.8	20.0
Fluoranthene	Ave	1.167	1.238	0.0000	21200	20000	6.1	20.0
Pyrene	Ave	1.065	1.090	0.0000	20500	20000	2.4	20.0
Benzo[a]anthracene	Ave	1.103	1.075	0.0000	19500	20000	-2.6	20.0
Chrysene	Ave	1.139	1.048	0.0000	18400	20000	-8.0	20.0
Benzo[b]fluoranthene	Ave	0.9807	0.9698	0.0000	19800	20000	-1.1	20.0
Benzo[k]fluoranthene	Ave	1.080	1.149	0.0000	21300	20000	6.3	20.0
Benzo[a]pyrene	Ave	0.9332	0.9930	0.0000	21300	20000	6.4	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.9147	0.0000	20400	20000	2.1	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8470	0.0000	20000	20000	0.2	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.9078	0.0000	19900	20000	-0.3	20.0
o-Terphenyl	Ave	0.5861	0.5956	0.0000	20300	20000	1.6	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 18-FEB-2013 14:07
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\a-bFASTPAHi-m.m
Meth Date : 18-Feb-2013 14:24 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.816	3.816	(1.000)	2084677	40.0000	(H)
* 6 Acenaphthene-d10	164	4.904	4.904	(1.000)	1616631	40.0000	(H)
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	3184282	40.0000	(H)
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	948249	20.0000	20.3238(H)
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	3977138	40.0000	(H)
* 23 Perylene-d12	264	9.027	9.027	(1.000)	3965161	40.0000	(H)
2 Naphthalene	128	3.827	3.827	(1.003)	1091737	20.0000	19.7630(H)
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	712948	20.0000	19.8486(H)
4 1-Methylnaphthalene	142	4.315	4.315	(1.131)	658440	20.0000	20.1555(H)
5 Acenaphthylene	152	4.815	4.815	(0.982)	1306819	20.0000	20.3186(H)
7 Acenaphthene	154	4.921	4.921	(1.004)	764707	20.0000	18.9573(H)
9 Fluorene	166	5.245	5.245	(1.070)	995062	20.0000	19.2169(H)
11 Phenanthrene	178	5.874	5.874	(1.003)	1700762	20.0000	17.8935(H)
12 Anthracene	178	5.909	5.909	(1.009)	1755251	20.0000	20.4966(H)
13 Carbazole	167	6.015	6.015	(1.027)	1559767	20.0000	20.9688(H)
15 Fluoranthene	202	6.715	6.715	(1.147)	1971005	20.0000	21.2219(H)
16 Pyrene	202	6.880	6.880	(0.881)	2167387	20.0000	20.4700(H)
17 Benzo(a)anthracene	228	7.798	7.798	(0.998)	2136848	20.0000	19.4834(H)
19 Chrysene	228	7.827	7.827	(1.002)	2084531	20.0000	18.4001(H)
20 Benzo(b)fluoranthene	252	8.662	8.662	(0.960)	1922756	20.0000	19.7788(H)
21 Benzo(k)fluoranthene	252	8.686	8.686	(0.962)	2277315	20.0000	21.2641(H)
22 Benzo(a)pyrene	252	8.968	8.968	(0.993)	1968703	20.0000	21.2824(H)
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.250	(1.136)	1813487	20.0000	20.4112(MH)
25 Dibenzo(a,h)anthracene	278	10.268	10.268	(1.137)	1679195	20.0000	20.0417(H)
26 Benzo(g,h,i)perylene	276	10.621	10.621	(1.177)	1799796	20.0000	19.9420(H)

QC Flag Legend

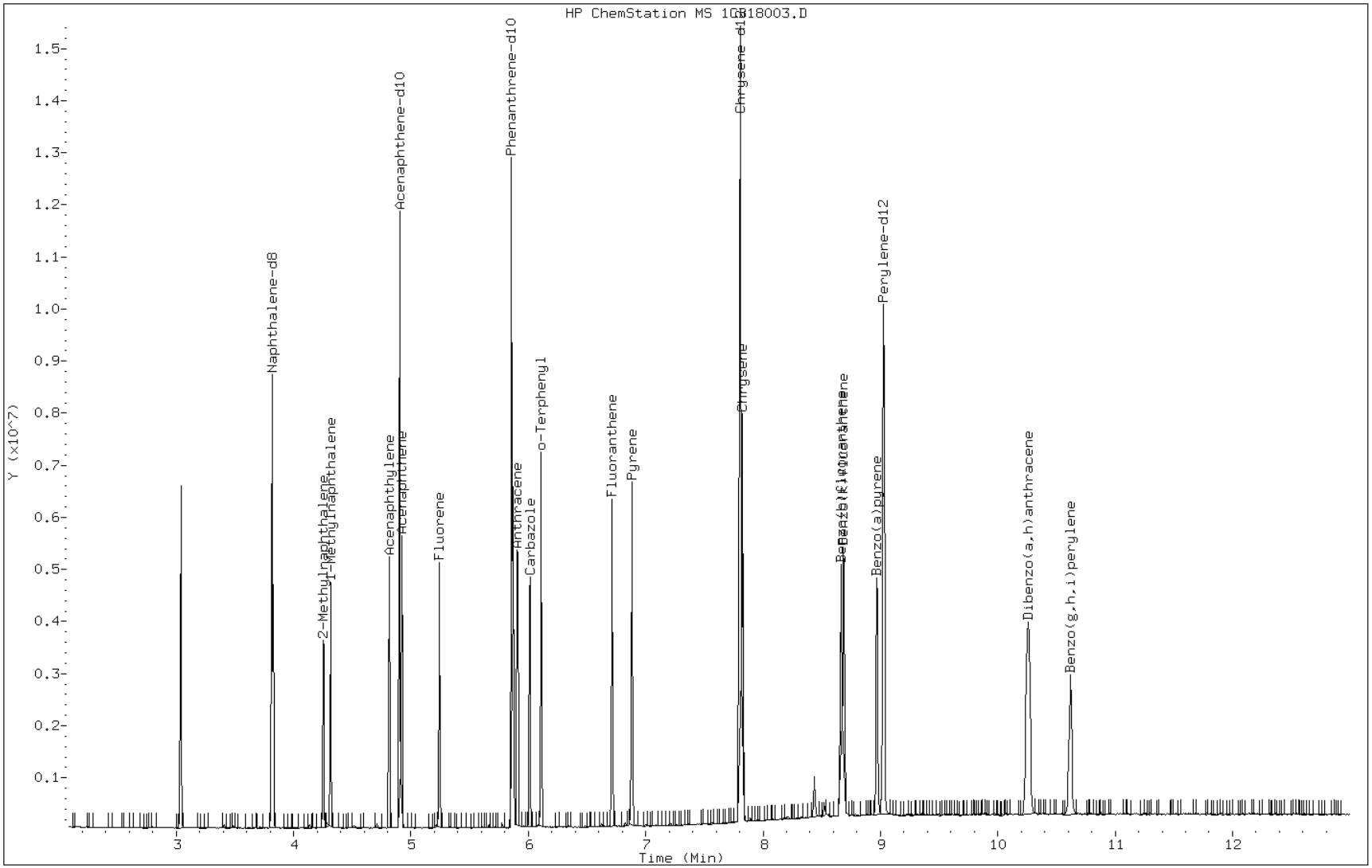
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB18003.D

Date: 18-FEB-2013 14:07

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CB18003.D
Inj. Date and Time: 18-FEB-2013 14:07
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

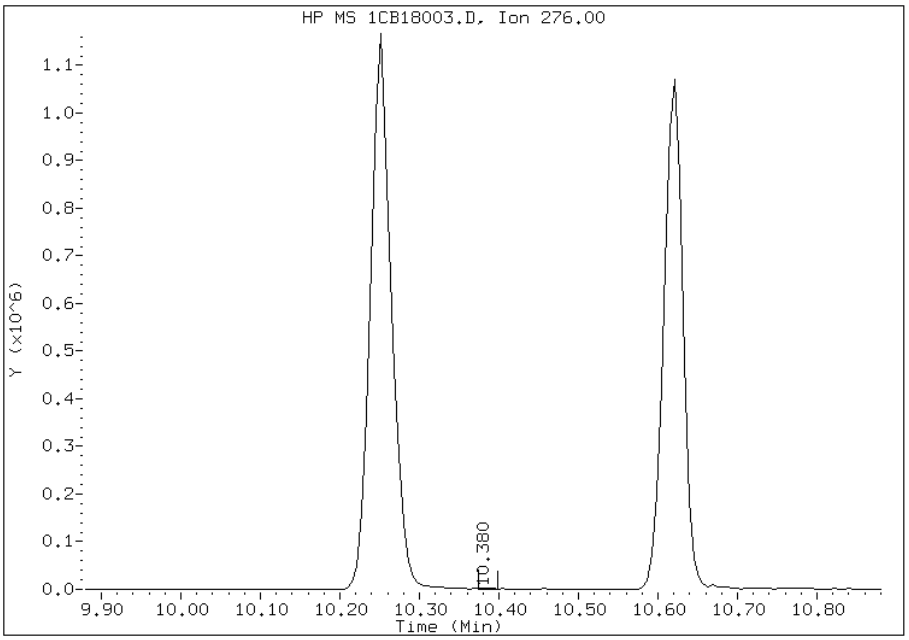
Processing Integration Results

RT: 10.38

Response: 1978

Amount: 0

Conc: 0



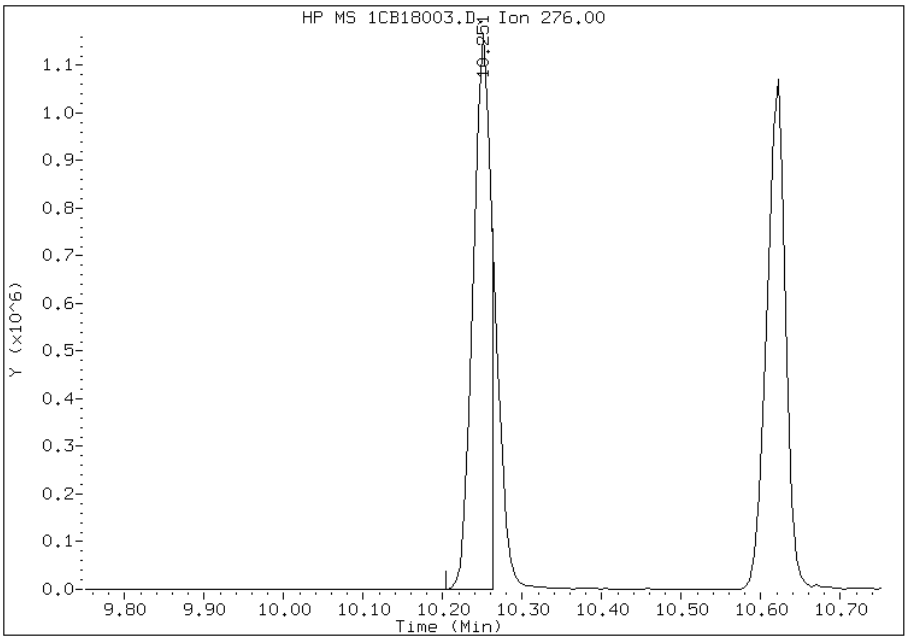
Manual Integration Results

RT: 10.25

Response: 1813487

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 14:26
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 30-JAN-2013 11:20
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.827	4.928	-0.101	198	74336			50.00- 0.00	100.00
4.827	4.928	-0.101	51	30248			10.00- 80.00	40.69
4.827	4.928	-0.101	68	0	0.0	0.0	0.00- 2.00	0.00
4.827	4.928	-0.101	69	32488			0.00- 0.00	43.70
4.827	4.928	-0.101	70	551			0.00- 2.00	1.70
4.827	4.928	-0.101	127	32864			10.00- 80.00	44.21
4.827	4.928	-0.101	197	1231			0.00- 2.00	1.66
4.827	4.928	-0.101	442	47368			50.00- 0.00	63.72
4.827	4.928	-0.101	199	4419			5.00- 9.00	5.94
4.827	4.928	-0.101	275	17432			10.00- 60.00	23.45
4.827	4.928	-0.101	365	1423			1.00- 0.00	1.91
4.827	4.928	-0.101	441	6409			0.01- 99.99	63.49
4.827	4.928	-0.101	443	10094			15.00- 24.00	21.31

Data File: 1AA30002.D

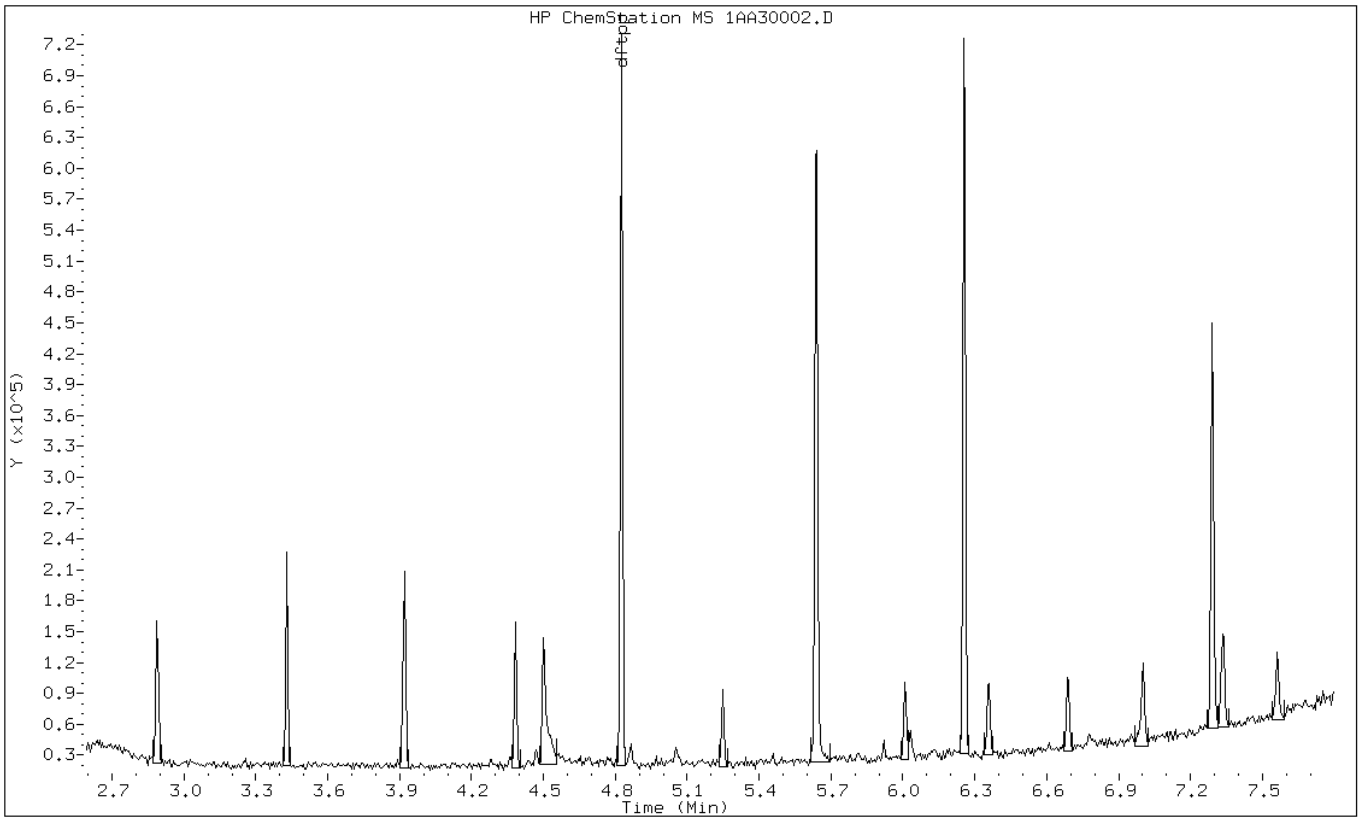
Date: 30-JAN-2013 11:20

Client ID: DFTPP

Instrument: BSMA5973.i

Sample Info: DFTPP-1465456

Operator: SCC



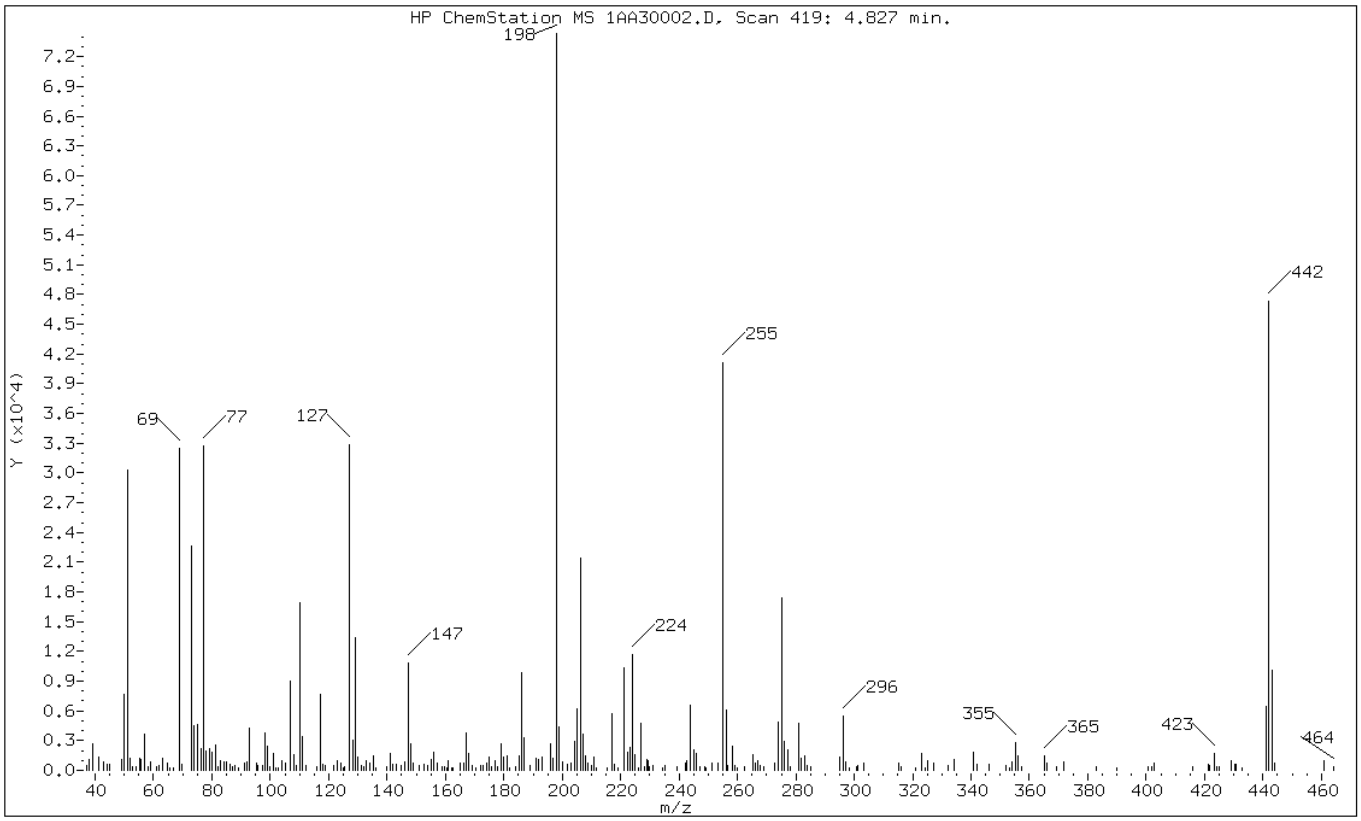
Data File: 1AA30002.D

Date: 30-JAN-2013 11:20

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 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	40.69
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	43.70
70	Less than 2.00% of mass 69	0.74 (1.70)
127	10.00 - 80.00% of mass 198	44.21
197	Less than 2.00% of mass 198	1.66
442	Greater than 50.00% of mass 198	63.72
199	5.00 - 9.00% of mass 198	5.94
275	10.00 - 60.00% of mass 198	23.45
365	Greater than 1.00% of mass 198	1.91
441	Present, but less than mass 443	8.62
443	15.00 - 24.00% of mass 442	13.58 (21.31)

Data File: 1AA30002.D

Date: 30-JAN-2013 11:20

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A013013.b\1AA30002.D
Spectrum: HP ChemStation MS 1AA30002.D, Scan 419: 4.827 min.
Location of Maximum: 198.00
Number of points: 248

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	463	115.80	356	192.00	1084	276.10	2879
38.10	1056	117.10	7698	193.10	1299	277.10	2022
39.10	2640	118.00	636	196.00	2623	278.10	421
41.10	1394	119.00	501	196.80	1231	281.10	4793
43.00	902	121.90	513	198.00	74336	281.90	1263
44.00	620	123.00	937	198.90	4419	283.10	1463
45.00	642	124.00	788	200.10	855	284.00	447
48.90	1064	125.10	290	201.60	588	285.20	378
50.00	7633	125.50	311	203.00	744	295.20	1388
51.00	30248	127.00	32864	204.10	2969	296.10	5460
52.00	1249	128.10	3077	205.10	6251	296.90	760
52.90	352	129.00	13426	206.10	21376	297.20	902
53.90	364	130.00	1385	207.10	3697	298.30	304
55.10	1245	131.10	517	208.10	1470	300.90	404
55.80	1133	131.90	345	208.90	742	301.20	468
57.00	3594	133.00	994	209.90	487	303.10	772
58.00	309	134.00	730	211.00	1283	315.20	713
59.10	792	135.20	1418	211.70	255	316.10	325
60.90	420	136.00	288	215.30	270	321.20	282
62.00	469	139.90	376	217.00	5695	323.10	1758
63.00	1184	141.00	1743	217.80	552	324.20	260
64.90	784	142.10	566	218.90	263	325.10	1029
65.70	296	143.10	565	221.10	10393	327.10	752
67.00	252	144.90	525	222.20	1774	332.10	466
69.00	32488	146.20	827	223.20	2301	334.10	1128
69.70	551	147.10	10784	224.10	11718	341.00	1772
73.10	22664	148.00	2728	225.00	1594	342.10	567
74.00	4472	148.90	784	226.10	256	346.20	603
75.00	4596	151.10	492	227.00	4790	351.90	469
76.10	2241	152.80	652	228.30	359	353.00	252
77.10	32760	153.80	496	228.90	1100	354.10	793
78.00	1915	155.00	1059	229.20	1033	355.10	2767
79.00	2162	156.10	1885	230.00	399	355.90	1469
80.00	1874	157.30	786	231.10	431	357.20	404
81.10	2537	158.70	305	234.20	272	365.20	1423
82.00	421	159.80	318	235.00	441	366.00	738
83.10	924	160.30	264	239.10	349	369.10	312
84.00	848	160.90	988	242.20	734	371.90	897
85.00	866	162.10	270	242.80	993	383.00	420
86.00	559	162.40	286	244.00	6598	390.00	264

87.10	384	165.10	785	245.00	2014	400.80	379
88.00	530	166.10	783	246.10	1712	402.00	325
89.00	250	167.00	3795	247.10	374	402.80	702
91.10	782	168.10	1669	248.90	360	416.00	308
92.10	880	169.00	452	249.20	288	421.10	557
93.00	4215	170.30	274	251.10	700	421.90	480
95.20	724	172.00	496	253.20	782	423.20	1724
95.80	434	172.90	511	255.10	41128	424.20	319
97.20	475	174.10	708	256.10	6049	424.90	324
98.00	3751	175.00	1328	256.80	482	429.10	971
99.00	2422	175.90	361	258.10	2470	430.20	549
99.90	308	177.10	917	259.10	440	430.90	557
101.00	1674	178.00	419	260.10	293	433.00	281
101.90	279	179.00	2653	262.30	318	441.00	6409
102.80	255	179.90	1296	265.20	1624	442.00	47368
104.00	952	181.00	1468	266.10	737	443.00	10094
105.00	681	182.10	271	267.00	947	444.00	751
107.00	9036	184.00	349	267.80	439	461.10	933
108.10	1631	185.10	1466	268.90	299	464.20	357
109.00	458	186.10	9887	269.20	385		
110.00	16928	187.00	3312	272.80	771		
111.00	3457	189.10	506	274.10	4829		
112.10	507	191.10	1269	275.10	17432		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 15-FEB-2013 15:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-dftpp198.m
Meth Date : 09-Jan-2013 15:25 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

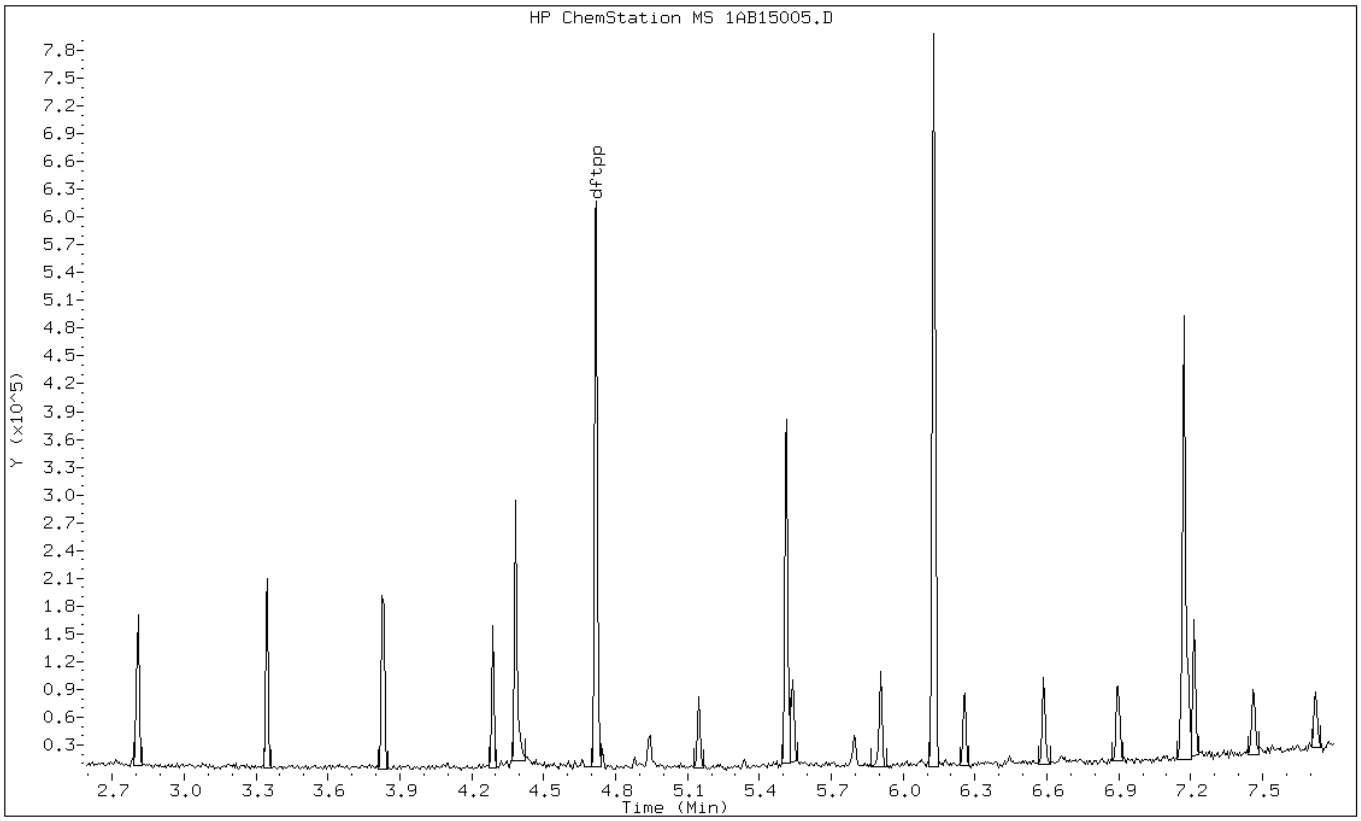
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.719	4.928	-0.209	198	64712			50.00- 0.00	100.00
4.719	4.928	-0.209	51	22008			10.00- 80.00	34.01
4.719	4.928	-0.209	68	0	0.0	0.0	0.00- 2.00	0.00
4.719	4.928	-0.209	69	26120			0.00- 0.00	40.36
4.719	4.928	-0.209	70	0	0.0	0.0	0.00- 2.00	0.00
4.719	4.928	-0.209	127	25096			10.00- 80.00	38.78
4.719	4.928	-0.209	197	0	0.0	0.0	0.00- 2.00	0.00
4.719	4.928	-0.209	442	54360			50.00- 0.00	84.00
4.719	4.928	-0.209	199	3659			5.00- 9.00	5.65
4.719	4.928	-0.209	275	17856			10.00- 60.00	27.59
4.719	4.928	-0.209	365	3884			1.00- 0.00	6.00
4.719	4.928	-0.209	441	8520			0.01- 99.99	98.89
4.719	4.928	-0.209	443	8616			15.00- 24.00	15.85

Data File: 1AB15005.D

Date: 15-FEB-2013 15:08

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



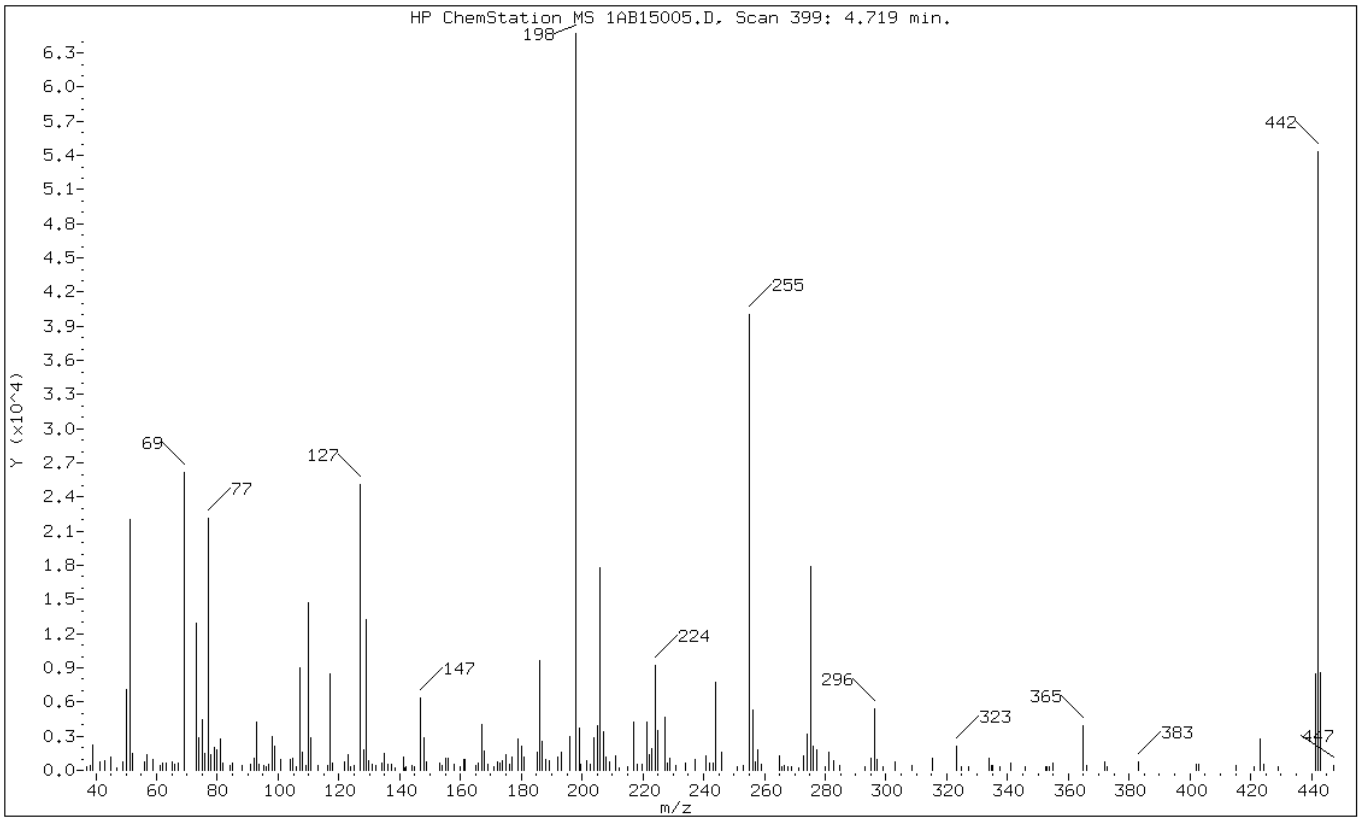
Data File: 1AB15005.D

Date: 15-FEB-2013 15:08

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	34.01
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	40.36
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	38.78
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	84.00
199	5.00 - 9.00% of mass 198	5.65
275	10.00 - 60.00% of mass 198	27.59
365	Greater than 1.00% of mass 198	6.00
441	Present, but less than mass 443	13.17
443	15.00 - 24.00% of mass 442	13.31 (15.85)

Data File: 1AB15005.D

Date: 15-FEB-2013 15:08

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15005.D
Spectrum: HP ChemStation MS 1AB15005.D, Scan 399: 4.719 min.
Location of Maximum: 198.00
Number of points: 205

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	337	113.00	413	185.10	1608	269.10	361
38.00	428	116.10	396	186.00	9661	271.10	251
39.00	2272	117.00	8421	187.00	2495	272.90	1248
41.20	762	117.90	652	188.00	938	274.10	3208
43.00	860	121.80	779	189.10	838	275.10	17856
45.10	1140	123.00	1401	192.10	1135	276.10	2074
47.10	263	124.00	296	193.10	1538	277.10	1830
48.90	772	125.00	386	196.10	2976	279.90	291
50.00	7139	127.00	25096	198.00	64712	281.00	1628
51.10	22008	128.00	1769	199.00	3659	282.90	810
52.00	1460	129.00	13265	199.70	517	284.80	450
56.00	701	129.90	873	201.50	877	293.00	266
56.90	1324	131.00	521	202.90	572	295.10	1010
59.00	911	132.10	394	204.00	2828	296.10	5422
61.20	425	134.10	611	205.00	3944	297.10	937
61.90	589	135.00	1436	206.00	17760	299.00	360
63.20	660	136.00	504	207.20	3392	303.10	728
65.00	742	137.10	523	207.90	1149	308.60	421
65.80	496	138.30	260	208.90	701	315.10	1085
67.20	612	141.10	1183	210.90	1225	323.30	2073
69.00	26120	141.60	257	212.10	255	324.80	303
73.10	12930	142.10	332	215.00	276	327.10	337
74.00	2861	143.90	427	217.00	4247	334.10	1018
75.00	4493	145.00	293	218.00	511	334.90	458
76.00	1531	147.00	6380	219.90	499	335.10	437
77.10	22120	148.00	2877	221.20	4269	337.40	302
78.00	1382	148.90	710	222.20	1392	341.20	623
79.00	2019	153.10	678	223.10	1932	345.90	339
80.00	1806	154.00	371	224.10	9201	352.40	341
81.00	2789	155.10	1104	225.10	3524	353.10	289
81.80	612	156.10	1073	227.10	4669	353.80	349
84.10	399	158.00	483	228.00	688	355.00	639
84.80	630	159.80	346	228.90	1100	365.00	3884
88.00	384	161.10	940	230.90	399	365.90	464
91.00	514	161.40	944	234.10	649	366.20	469
92.00	1047	161.60	884	237.10	931	372.10	748
93.00	4227	164.90	396	240.90	1311	372.80	317
93.70	498	165.10	408	242.10	588	382.90	729
95.20	403	166.00	631	243.00	645	402.20	548
96.00	363	166.90	4026	244.10	7780	403.00	486

97.00	510	168.00	1663	246.00	1623	415.10	392
98.10	2940	169.00	494	251.10	352	421.10	284
99.00	2169	170.80	312	253.20	454	423.10	2777
101.00	946	172.10	768	255.10	40000	424.20	497
104.00	973	173.10	643	256.10	5315	429.00	320
104.90	1076	173.90	854	257.00	694	441.20	8520
105.90	316	175.10	1325	257.90	1822	442.00	54360
107.00	9003	176.20	561	259.10	576	443.10	8616
108.00	1600	177.00	1145	264.90	1316	447.30	422
109.00	402	179.00	2793	265.80	353		
110.00	14767	180.00	2070	266.70	475		
110.90	2860	181.00	1182	267.90	327		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JAN-2013 11:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\c-dftpp198.m
Meth Date : 24-Sep-2012 11:04 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

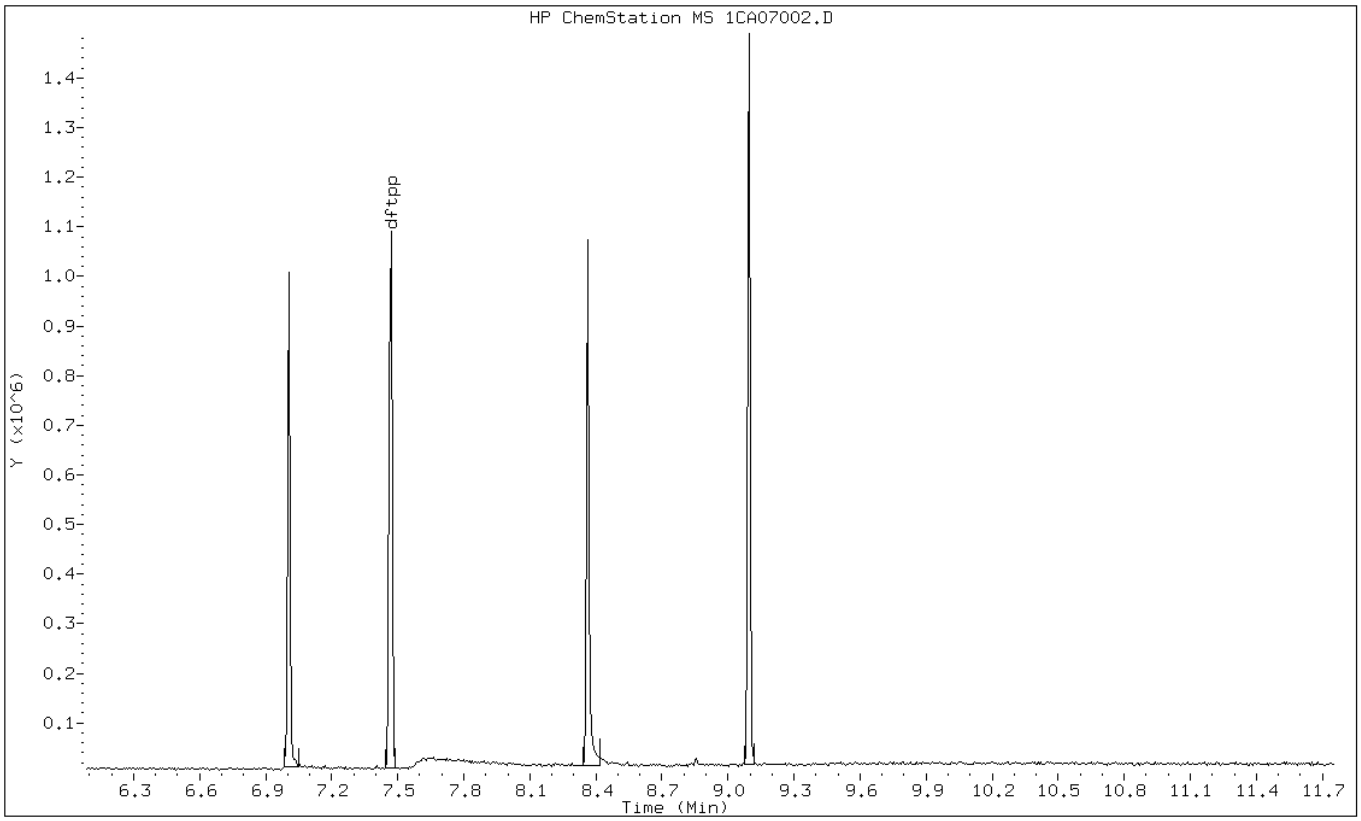
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.469	7.763	-0.294	198	127120			50.00- 0.00	100.00
7.469	7.763	-0.294	51	41280			10.00- 80.00	32.47
7.469	7.763	-0.294	68	533			0.00- 2.00	1.05
7.469	7.763	-0.294	69	50672			0.00- 0.00	39.86
7.469	7.763	-0.294	70	529			0.00- 2.00	1.04
7.469	7.763	-0.294	127	59544			10.00- 80.00	46.84
7.469	7.763	-0.294	197	1231			0.00- 2.00	0.97
7.469	7.763	-0.294	442	114480			50.00- 0.00	90.06
7.469	7.763	-0.294	199	7870			5.00- 9.00	6.19
7.469	7.763	-0.294	275	29224			10.00- 60.00	22.99
7.469	7.763	-0.294	365	3930			1.00- 0.00	3.09
7.469	7.763	-0.294	441	16880			0.01- 99.99	77.01
7.469	7.763	-0.294	443	21920			15.00- 24.00	19.15

Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



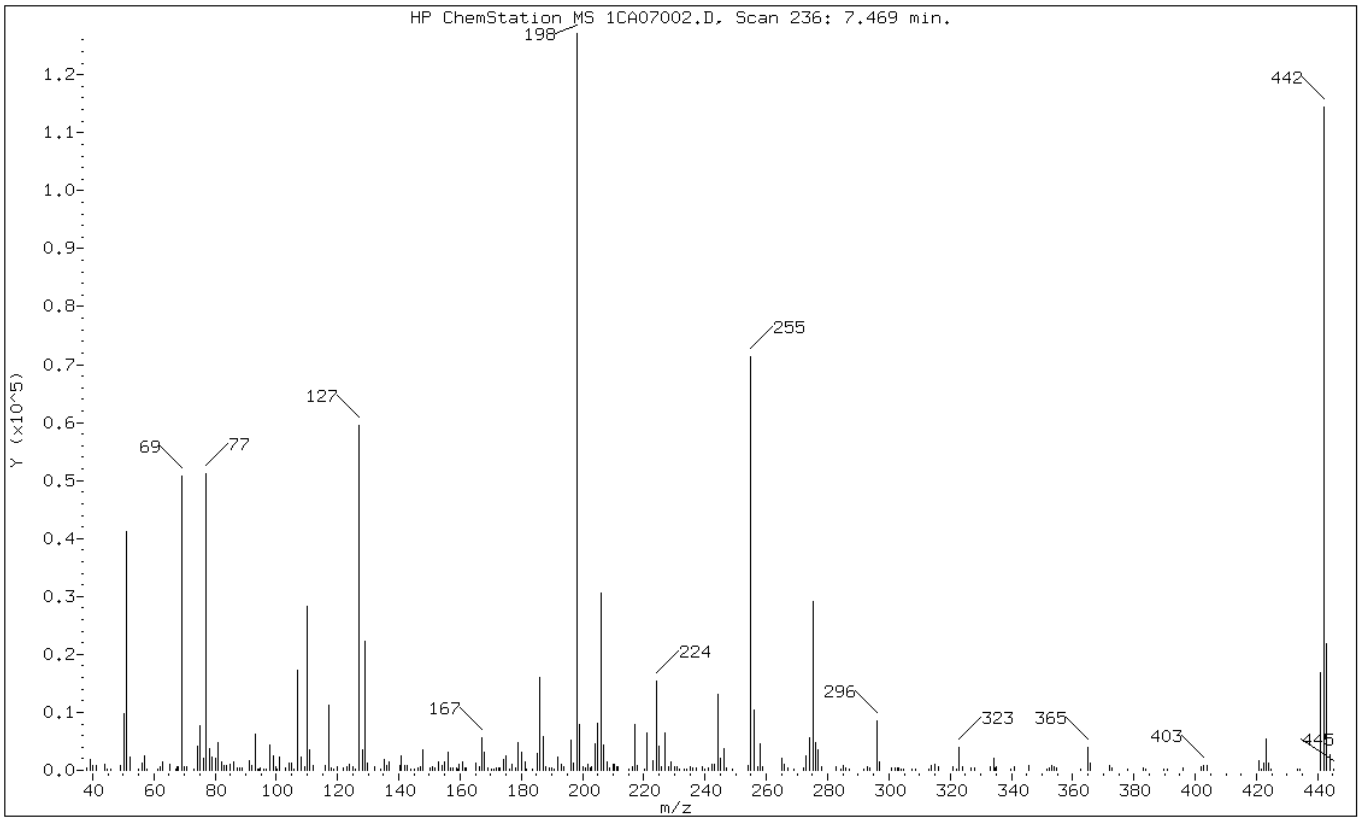
Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	32.47
68	Less than 2.00% of mass 69	0.42 (1.05)
69	Mass 69 relative abundance	39.86
70	Less than 2.00% of mass 69	0.42 (1.04)
127	10.00 - 80.00% of mass 198	46.84
197	Less than 2.00% of mass 198	0.97
442	Greater than 50.00% of mass 198	90.06
199	5.00 - 9.00% of mass 198	6.19
275	10.00 - 60.00% of mass 198	22.99
365	Greater than 1.00% of mass 198	3.09
441	Present, but less than mass 443	13.28
443	15.00 - 24.00% of mass 442	17.24 (19.15)

Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07002.D
Spectrum: HP ChemStation MS 1CA07002.D, Scan 236: 7.469 min.
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	420	119.90	601	196.10	5188	285.10	914
39.10	1782	121.80	475	197.10	1231	286.00	390
40.00	839	123.00	633	198.00	127120	287.10	179
41.10	859	124.00	937	199.00	7870	291.80	160
44.10	1108	125.00	669	200.10	670	293.00	589
44.90	152	125.90	258	200.90	482	293.90	453
45.90	156	127.10	59544	201.60	949	296.00	8526
49.00	871	128.10	3506	202.40	400	297.00	1368
50.10	9842	129.10	22208	203.00	538	300.70	479
51.10	41280	129.90	1266	204.00	4533	302.10	418
52.10	2357	132.10	617	205.00	8018	302.90	472
55.00	276	134.10	298	206.10	30592	303.30	414
56.00	1192	135.20	1953	207.00	4423	304.00	250
57.00	2442	136.10	890	208.00	1503	304.90	167
57.90	185	137.00	1425	208.80	471	307.70	155
61.30	188	140.20	914	210.00	937	308.80	244
62.00	685	140.90	2482	210.50	1006	313.00	279
63.00	1392	141.90	797	211.00	696	313.90	813
65.10	1132	142.90	864	211.60	536	315.00	1012
67.10	153	144.10	161	215.00	234	316.00	692
67.70	533	145.10	150	216.10	583	321.00	591
68.10	627	146.20	391	217.00	7970	322.00	171
69.10	50672	147.10	718	217.90	767	323.00	3997
70.10	529	148.00	3470	220.10	248	324.00	655
70.80	521	150.20	424	221.10	6401	327.00	413
73.10	282	151.00	649	222.80	1599	328.10	455
74.10	4253	151.80	327	224.10	15340	333.00	681
75.10	7783	153.00	1468	225.10	4235	334.10	2080
76.20	2092	154.10	806	225.90	587	334.80	423
77.10	51200	155.00	1543	227.00	6494	335.20	609
78.10	3708	156.00	3046	228.00	644	339.70	262
79.10	2279	156.90	385	228.90	1504	341.10	544
80.00	1989	157.80	369	230.00	552	345.80	748
81.00	4740	158.70	485	230.90	613	351.50	280
82.00	1539	159.20	191	231.70	188	352.30	428
82.90	800	159.80	1069	233.10	217	353.10	740
83.90	857	161.00	1449	234.00	303	354.00	654
85.00	1057	161.70	319	235.00	716	354.70	475
86.10	1480	162.10	352	235.90	363	362.50	264
87.10	445	165.00	1236	237.10	461	365.00	3930

87.90	375	166.20	671
89.00	333	167.00	5703
91.10	1642	168.00	3193
91.90	746	169.00	422
93.10	6202	170.10	237
93.80	300	171.00	275
94.20	188	171.90	443
94.80	488	172.80	465
96.10	190	173.10	403
96.90	185	174.20	1825
98.00	4388	175.10	2490
99.00	2420	176.00	265
99.70	568	176.80	966
100.20	212	178.00	357
101.10	2275	179.00	4862
103.00	381	180.10	3189
104.00	1148	181.10	1541
105.00	1192	181.80	286
105.80	271	183.60	157
107.00	17216	185.10	2863
108.00	2207	186.10	15999
109.20	723	187.10	5787
110.00	28384	188.10	556
111.00	3607	189.20	469
112.10	771	190.10	335
116.00	796	190.60	276
117.00	11205	192.00	2219
118.00	466	193.00	1058
118.90	198	194.00	556

238.90	530	365.90	1347
239.70	227	372.00	894
241.00	373	372.90	491
242.10	1013	378.00	155
243.10	1025	382.90	344
244.10	13028	383.80	260
245.00	2095	389.90	193
246.00	3792	391.00	205
247.10	451	396.00	313
249.10	154	402.00	707
253.90	895	402.90	932
255.00	71336	404.00	827
256.00	10460	421.00	1613
257.10	645	421.60	223
258.00	4542	422.20	1189
258.80	695	423.00	5417
264.90	2158	424.10	1194
266.00	1029	424.70	185
267.20	353	433.30	241
269.00	264	434.10	201
272.10	445	441.00	16880
273.10	2581	442.00	114480
274.00	5681	443.00	21920
275.10	29224	444.00	2789
276.00	4836	445.20	272
277.00	3605		
278.10	644		
282.80	642		
284.50	218		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15003.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 15-FEB-2013 11:40
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 3 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

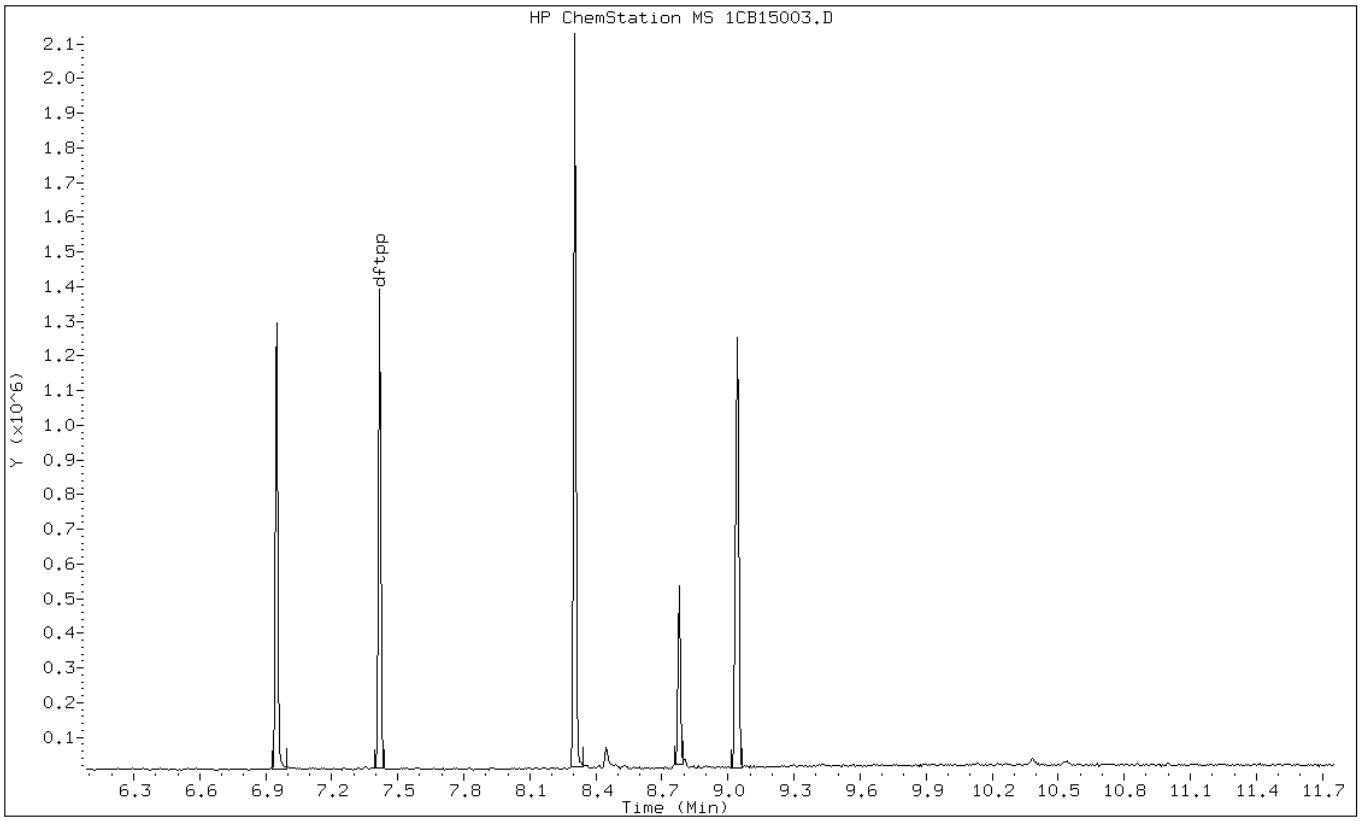
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.416	7.469	-0.053	198	165504			50.00- 0.00	100.00
7.416	7.469	-0.053	51	54416			10.00- 80.00	32.88
7.416	7.469	-0.053	68	766			0.00- 2.00	1.06
7.416	7.469	-0.053	69	72000			0.00- 0.00	43.50
7.416	7.469	-0.053	70	581			0.00- 2.00	0.81
7.416	7.469	-0.053	127	77344			10.00- 80.00	46.73
7.416	7.469	-0.053	197	1518			0.00- 2.00	0.92
7.416	7.469	-0.053	442	118800			50.00- 0.00	71.78
7.416	7.469	-0.053	199	12221			5.00- 9.00	7.38
7.416	7.469	-0.053	275	37832			10.00- 60.00	22.86
7.416	7.469	-0.053	365	4167			1.00- 0.00	2.52
7.416	7.469	-0.053	441	18088			0.01- 99.99	68.47
7.416	7.469	-0.053	443	26416			15.00- 24.00	22.24

Data File: 1CB15003.D

Date: 15-FEB-2013 11:40

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



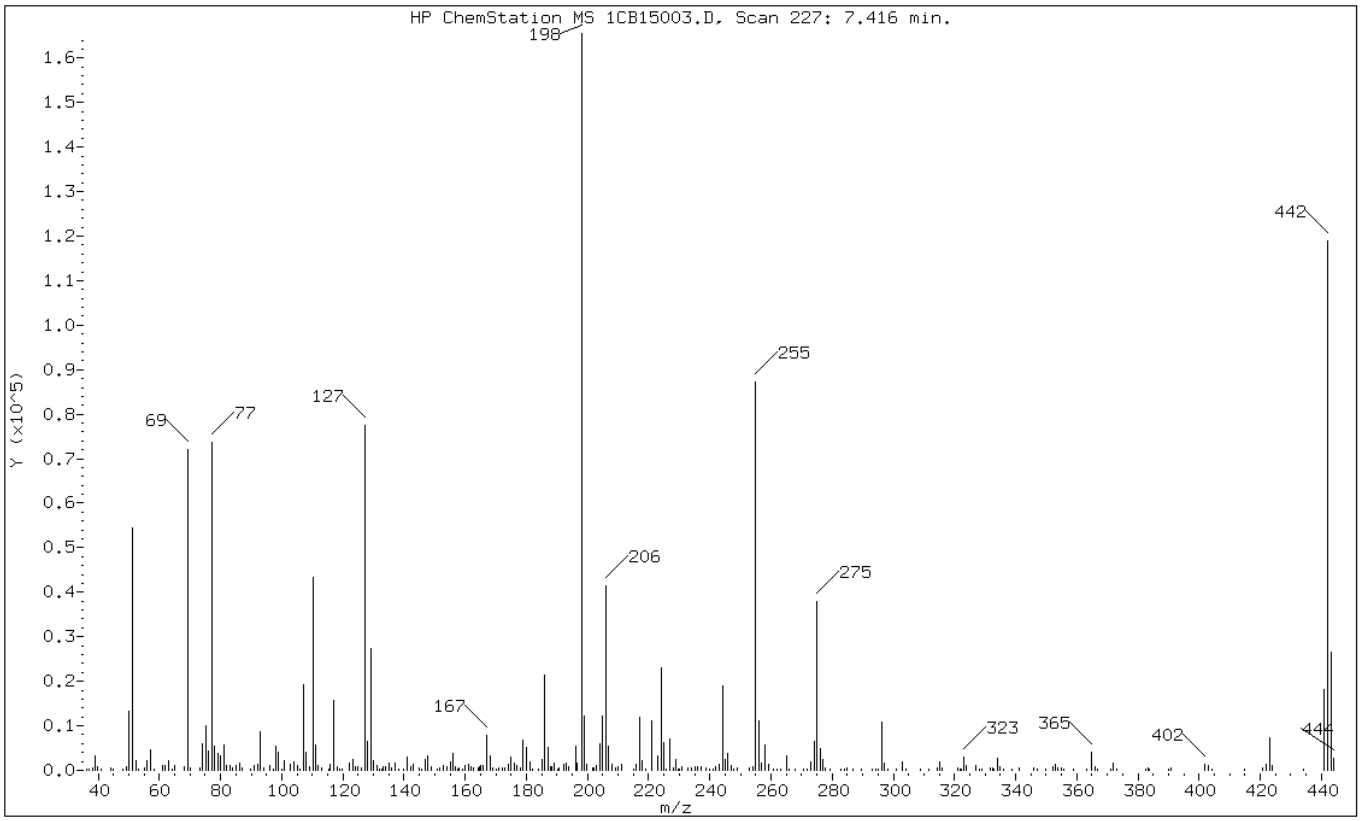
Data File: 1CB15003.D

Date: 15-FEB-2013 11:40

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	32.88
68	Less than 2.00% of mass 69	0.46 (1.06)
69	Mass 69 relative abundance	43.50
70	Less than 2.00% of mass 69	0.35 (0.81)
127	10.00 - 80.00% of mass 198	46.73
197	Less than 2.00% of mass 198	0.92
442	Greater than 50.00% of mass 198	71.78
199	5.00 - 9.00% of mass 198	7.38
275	10.00 - 60.00% of mass 198	22.86
365	Greater than 1.00% of mass 198	2.52
441	Present, but less than mass 443	10.93
443	15.00 - 24.00% of mass 442	15.96 (22.24)

Data File: 1CB15003.D

Date: 15-FEB-2013 11:40

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15003.D
Spectrum: HP ChemStation MS 1CB15003.D, Scan 227: 7.416 min.
Location of Maximum: 198.00
Number of points: 281

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	202	124.10	700	196.10	5316	284.10	264
36.90	243	124.90	823	196.70	1518	285.00	483
38.20	616	126.20	562	198.00	165504	286.90	160
39.10	3384	127.10	77344	199.00	12221	289.70	189
39.90	889	128.10	6489	199.90	1426	292.90	399
40.80	302	129.10	27432	201.50	582	294.20	258
44.10	516	130.00	2118	202.20	551	295.00	177
44.80	250	131.00	998	203.00	1069	296.10	10818
48.00	217	132.00	196	204.10	5947	297.00	1601
49.10	877	132.60	307	205.00	12112	298.20	227
50.10	13274	133.30	716	206.10	41432	301.00	167
51.10	54416	134.10	878	207.00	5303	303.00	1988
52.20	2036	135.00	1641	208.00	1318	304.00	168
53.10	288	136.00	512	209.10	537	308.90	250
55.10	607	137.10	1602	210.10	753	311.70	321
56.00	2100	138.10	266	211.00	1469	314.30	618
57.10	4572	139.90	247	214.90	338	315.00	1867
58.10	259	141.10	2882	216.00	1341	316.10	514
61.10	998	142.00	869	217.00	11805	321.20	649
62.00	979	142.80	1359	218.00	2111	321.70	196
63.10	2248	145.10	551	218.90	177	322.20	229
64.10	270	145.60	338	221.00	10980	323.10	3075
65.00	1105	147.10	2483	223.00	3215	324.00	1052
68.20	766	147.90	3295	224.10	23040	327.00	962
69.10	72000	149.00	742	225.10	6130	328.20	336
70.00	581	150.90	323	225.80	396	329.00	186
73.10	433	151.50	502	227.00	7147	331.90	642
74.10	5836	153.00	1125	227.90	594	332.60	428
75.10	10029	154.00	851	228.90	2511	332.90	380
76.10	4206	155.00	1827	229.80	196	334.00	2608
77.10	73600	156.00	3890	230.20	348	334.90	681
78.10	5411	156.80	721	231.00	747	336.20	299
79.00	3847	157.50	383	232.90	483	338.80	227
80.00	3333	158.10	622	234.10	548	341.10	653
81.10	5637	159.00	160	235.10	782	346.00	613
82.10	1178	160.00	1187	236.00	688	346.90	232
83.10	1140	161.20	1356	237.00	755	350.00	359
83.80	655	161.90	878	238.80	636	352.00	931
85.10	1107	162.80	435	239.90	263	353.00	1335
86.10	1537	164.20	556	240.90	381	353.90	610

87.10	640	164.70	934	242.00	929	355.00	448
89.80	341	165.10	1112	242.90	1362	355.90	243
91.00	1187	166.00	1080	244.10	18880	359.00	178
92.00	1229	167.00	7874	245.00	2451	363.10	158
93.00	8763	168.00	3199	246.00	3682	365.00	4167
94.30	561	168.90	627	247.00	956	366.10	730
96.20	996	170.00	286	247.90	382	366.80	287
97.20	280	171.10	455	249.00	495	371.10	328
98.10	5552	172.00	527	253.10	579	372.00	1655
98.90	4020	173.10	673	253.90	932	372.90	339
100.10	321	174.10	1226	255.00	87176	382.70	294
101.00	2274	175.00	3070	256.00	11041	383.20	506
102.90	1366	176.10	1660	257.00	1497	383.70	208
103.90	2024	177.00	1128	258.00	5747	389.90	172
105.00	1170	178.10	421	259.10	1374	390.90	446
105.90	196	179.00	6675	260.90	243	402.00	1419
107.10	19208	180.10	5043	262.00	249	403.00	950
108.00	3986	181.00	1852	263.00	153	404.10	229
109.00	692	181.90	256	265.10	3325	415.00	187
110.10	43448	184.10	362	265.90	370	420.90	600
111.10	5619	185.00	2502	268.00	304	422.10	1356
111.90	1165	186.10	21320	270.60	307	423.00	7370
112.90	432	187.10	5202	271.90	232	424.10	1156
115.20	374	187.90	723	273.00	1819	434.00	203
115.90	1431	188.20	705	274.10	6497	441.00	18088
117.10	15618	189.10	1540	275.00	37832	442.00	118800
118.00	924	190.10	318	276.00	4895	443.10	26416
119.10	357	190.80	591	277.00	2366	444.00	2685
119.90	320	192.10	1282	277.90	434		
122.00	1620	193.00	1544	279.30	358		
123.10	2553	194.00	743	282.90	292		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-FEB-2013 13:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\c-dftpp198.m
Meth Date : 04-Feb-2013 16:33 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

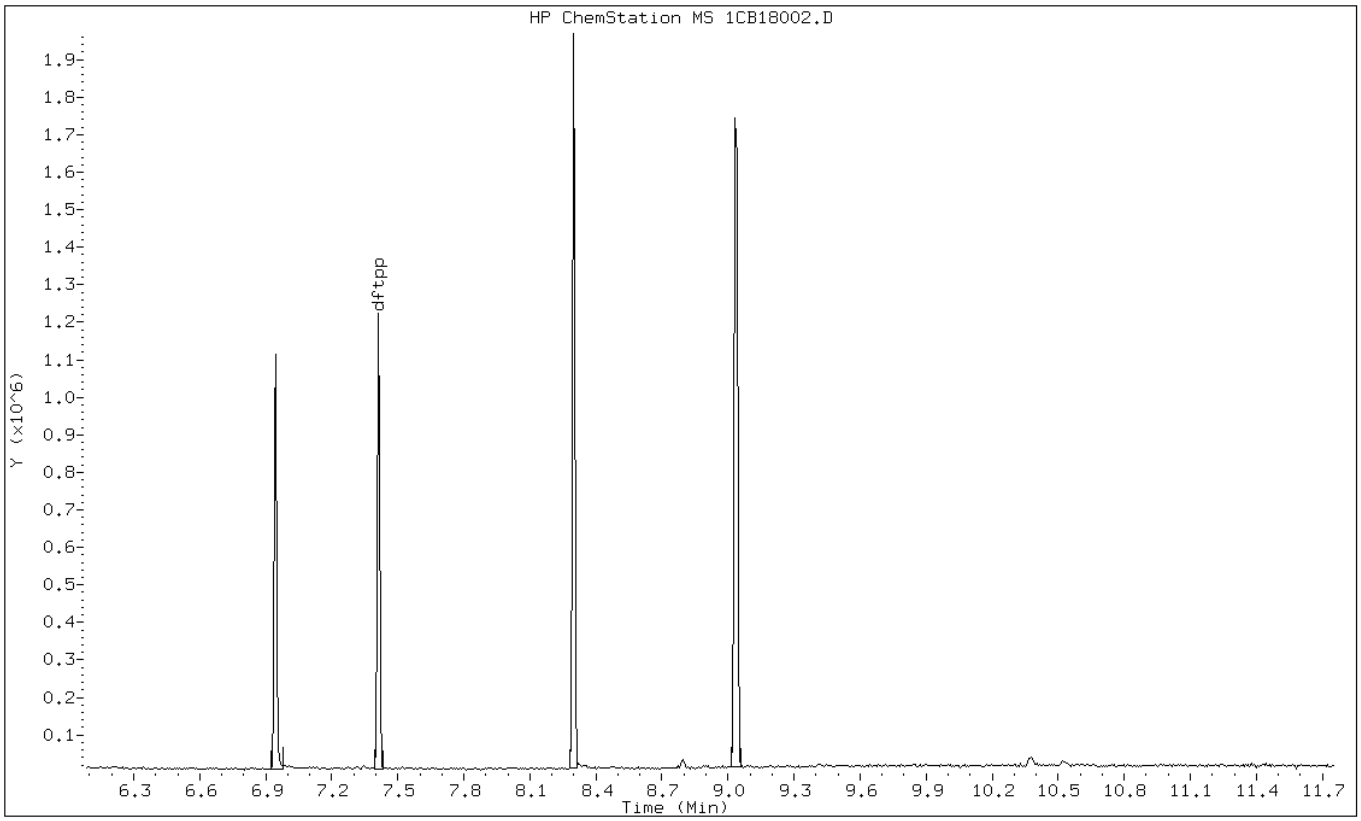
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.410	7.469	-0.059	198	145216			50.00- 0.00	100.00
7.410	7.469	-0.059	51	51064			10.00- 80.00	35.16
7.410	7.469	-0.059	68	1067			0.00- 2.00	1.61
7.410	7.469	-0.059	69	66456			0.00- 0.00	45.76
7.410	7.469	-0.059	70	355			0.00- 2.00	0.53
7.410	7.469	-0.059	127	66960			10.00- 80.00	46.11
7.410	7.469	-0.059	197	1418			0.00- 2.00	0.98
7.410	7.469	-0.059	442	106200			50.00- 0.00	73.13
7.410	7.469	-0.059	199	9488			5.00- 9.00	6.53
7.410	7.469	-0.059	275	32072			10.00- 60.00	22.09
7.410	7.469	-0.059	365	4814			1.00- 0.00	3.32
7.410	7.469	-0.059	441	15700			0.01- 99.99	79.78
7.410	7.469	-0.059	443	19680			15.00- 24.00	18.53

Data File: 1CB18002.D

Date: 18-FEB-2013 13:50

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



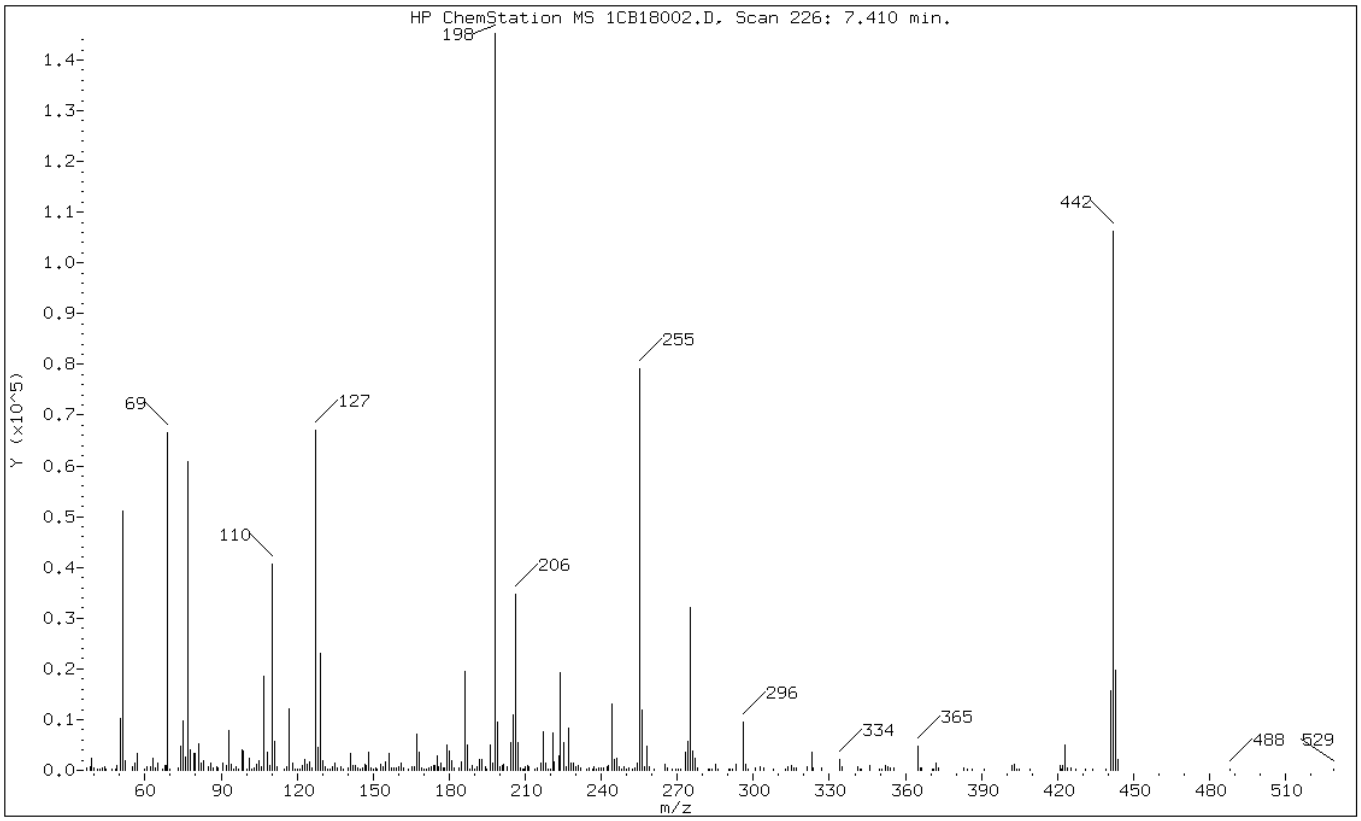
Data File: 1CB18002.D

Date: 18-FEB-2013 13:50

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	35.16
68	Less than 2.00% of mass 69	0.73 (1.61)
69	Mass 69 relative abundance	45.76
70	Less than 2.00% of mass 69	0.24 (0.53)
127	10.00 - 80.00% of mass 198	46.11
197	Less than 2.00% of mass 198	0.98
442	Greater than 50.00% of mass 198	73.13
199	5.00 - 9.00% of mass 198	6.53
275	10.00 - 60.00% of mass 198	22.09
365	Greater than 1.00% of mass 198	3.32
441	Present, but less than mass 443	10.81
443	15.00 - 24.00% of mass 442	13.55 (18.53)

Data File: 1CB18002.D

Date: 18-FEB-2013 13:50

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C021813.b\1CB18002.D
Spectrum: HP ChemStation MS 1CB18002.D, Scan 226: 7.410 min.
Location of Maximum: 198.00
Number of points: 295

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	443	122.00	935	194.90	276	275.00	32072
38.20	600	123.10	2204	196.10	5040	276.10	3692
39.10	2391	123.90	1296	197.10	1418	277.00	2483
39.90	573	125.10	1742	198.00	145216	278.00	538
41.10	278	125.80	539	199.00	9488	282.10	201
42.00	154	127.10	66960	200.10	633	282.80	260
43.10	411	128.10	4509	201.20	1069	283.80	183
44.10	735	129.00	23144	201.50	1204	285.10	1204
44.70	238	130.00	1989	202.90	643	285.90	294
47.10	170	131.10	666	204.10	5487	290.10	240
48.20	235	131.90	356	205.10	10861	290.90	175
49.10	896	133.00	184	206.10	34616	291.80	277
50.10	10205	134.00	768	207.10	5565	293.10	1093
51.10	51064	135.00	1413	208.20	359	296.00	9534
52.10	1877	135.80	482	209.00	307	296.90	1133
54.90	674	137.20	686	209.70	193	298.10	214
56.00	1357	138.00	282	210.20	669	300.70	427
57.10	3399	140.00	384	211.00	951	302.90	671
59.90	199	141.10	3214	211.60	754	304.00	556
61.00	763	141.90	1049	213.80	156	307.80	320
62.20	685	142.90	852	214.90	446	312.70	334
63.10	2375	144.10	445	216.00	1332	313.80	711
64.10	397	145.10	217	217.00	7680	314.80	1005
65.00	1452	145.80	374	218.10	1422	316.00	501
66.90	159	146.70	1161	219.00	212	316.90	378
67.80	1067	147.20	1061	220.10	221	321.10	656
68.20	1051	148.10	3673	221.00	7334	323.10	3484
69.00	66456	149.00	454	221.60	1626	323.80	369
70.00	355	149.90	309	223.10	2849	327.10	506
73.00	513	150.30	201	224.00	19192	334.00	2065
74.20	4856	150.90	454	225.10	5369	335.10	649
75.00	9808	151.40	282	226.00	699	341.10	791
76.00	2640	153.00	1260	227.00	8322	342.00	240
77.10	60752	153.80	677	228.10	1355	342.80	249
78.10	4060	155.00	1702	229.00	1354	345.90	971
79.10	3373	156.10	3218	229.90	677	349.90	276
80.00	3260	157.10	454	231.00	927	350.80	152
81.10	5308	158.00	406	231.90	527	352.00	859
82.00	1396	159.00	390	234.00	308	352.90	603
83.20	1812	160.10	663	235.10	416	354.00	469

85.10	770	161.10	1476	236.60	264	355.20	416
86.00	1365	161.90	577	237.10	820	365.00	4814
87.10	520	163.80	319	237.80	154	365.70	373
88.10	621	165.10	682	239.00	504	366.20	391
88.90	553	166.20	816	239.80	522	370.50	172
90.90	1393	167.00	7078	240.70	461	371.10	154
92.00	1026	168.00	3589	241.10	291	372.00	1475
93.10	7947	168.90	484	242.10	820	373.00	474
94.00	1243	169.90	198	243.00	1054	382.90	401
95.00	281	171.10	189	244.10	13067	384.20	308
96.00	661	172.00	520	245.00	2206	386.10	193
96.90	153	173.00	741	246.10	2260	391.10	237
98.10	3999	173.80	869	247.10	636	402.00	859
99.00	3764	174.40	946	248.10	230	402.90	1196
100.00	253	175.10	2826	248.90	616	404.00	213
101.00	2429	175.80	743	249.90	275	405.00	218
102.00	314	176.90	1474	251.10	387	409.30	211
103.10	476	177.70	433	252.20	325	420.80	878
104.00	1192	178.10	415	253.10	484	421.60	293
105.00	1945	179.00	4960	254.00	1378	422.00	944
106.00	649	180.10	3833	255.00	79224	423.00	5039
107.10	18440	181.10	1818	256.00	11788	423.90	582
108.10	3652	182.00	398	256.90	712	425.20	437
109.10	866	184.00	442	258.10	4754	427.10	184
110.10	40592	185.00	1736	259.00	699	431.10	267
111.10	5721	186.10	19456	260.90	184	434.00	215
112.00	679	187.00	4992	265.00	1160	439.10	271
114.90	189	187.90	187	266.00	393	441.10	15700
115.90	641	189.00	854	268.00	282	442.00	106200
117.00	12171	190.20	198	269.20	194	443.00	19680
118.10	1328	191.10	617	270.40	173	444.00	2067
119.20	185	192.10	2115	271.30	174	488.10	181
120.10	196	193.10	2066	273.00	3560	528.90	172
121.00	153	194.10	768	274.00	5743		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: | Lab Sample ID: MB 660-134472/1-A

Matrix: Solid | Lab File ID: 1CB15008.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/14/2013 11:19

Sample wt/vol: 15.10(g) | Date Analyzed: 02/15/2013 13:20

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

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

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

Analysis Batch No.: 134530 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	20
208-96-8	Acenaphthylene	40	U	40	5.0
120-12-7	Anthracene	8.3	U	8.3	4.2
56-55-3	Benzo[a]anthracene	7.9	U	7.9	3.9
50-32-8	Benzo[a]pyrene	10	U	10	5.2
205-99-2	Benzo[b]fluoranthene	12	U	12	6.1
191-24-2	Benzo[g,h,i]perylene	20	U	20	4.4
207-08-9	Benzo[k]fluoranthene	7.9	U	7.9	3.6
218-01-9	Chrysene	8.9	U	8.9	4.5
53-70-3	Dibenz(a,h)anthracene	20	U	20	4.1
206-44-0	Fluoranthene	20	U	20	4.0
86-73-7	Fluorene	20	U	20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	20	U	20	7.1
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	7.9	U	7.9	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	74		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15008.D
Lab Smp Id: mb 660-134472/1-a
Inj Date : 15-FEB-2013 13:20
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134472/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.100	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

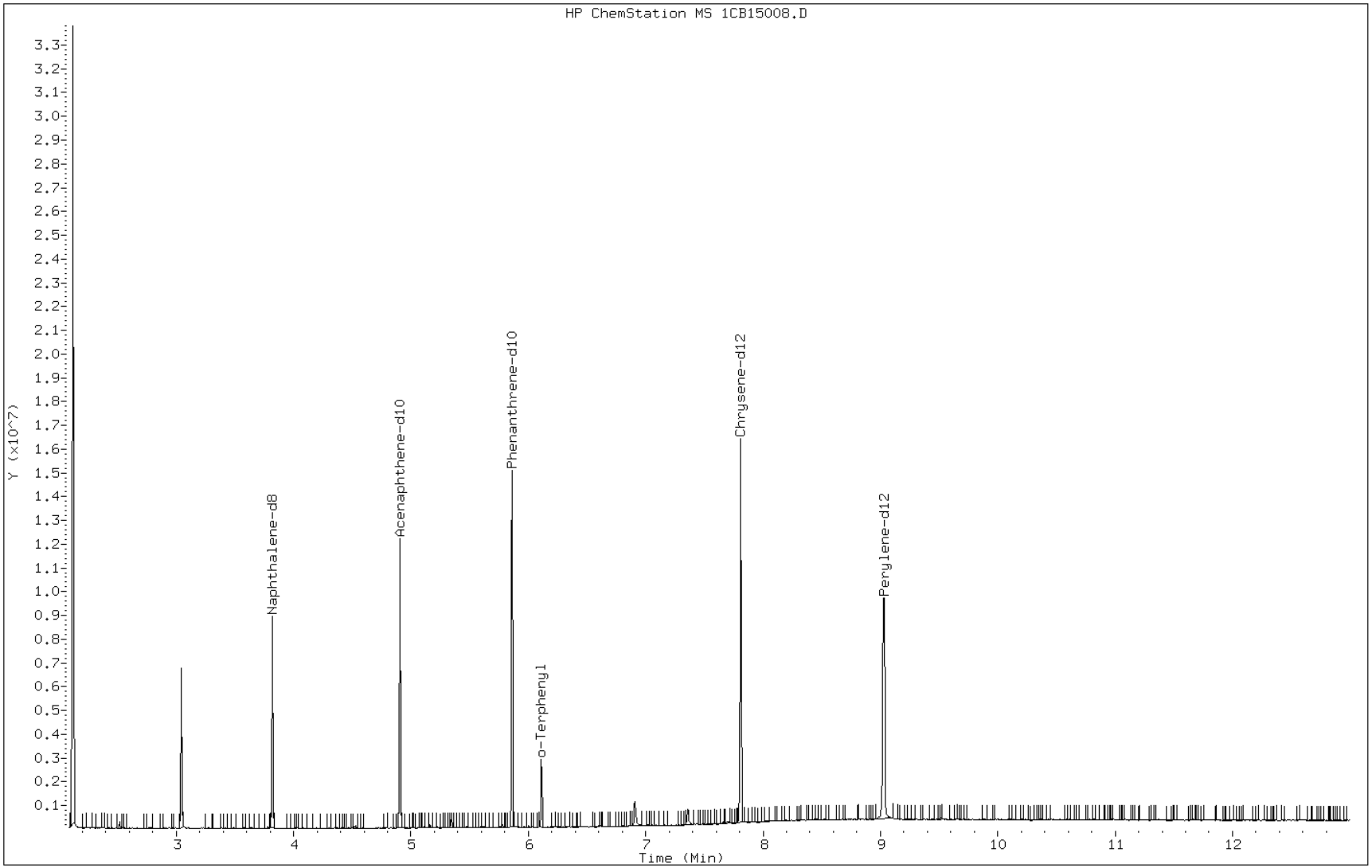
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2663358	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	2068260	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3931766	40.0000	
$ 14 o-Terphenyl	230	6.109	6.115	(1.042)	423645	7.35375	487.0035
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	4251050	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	4056698	40.0000	

Data File: 1CB15008.D

Date: 15-FEB-2013 13:20

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134472/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: | Lab Sample ID: MB 660-134486/1-A

Matrix: Solid | Lab File ID: 1AB15032.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.23(g) | Date Analyzed: 02/15/2013 21:55

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.: 134532 | Units: ug/Kg

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	94		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15032.D
Lab Smp Id: mb 660-134486/1-a
Inj Date : 15-FEB-2013 21:55
Operator : SCC Inst ID: BSMA5973.i
Smp Info : mb 660-134486/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 29 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.230	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

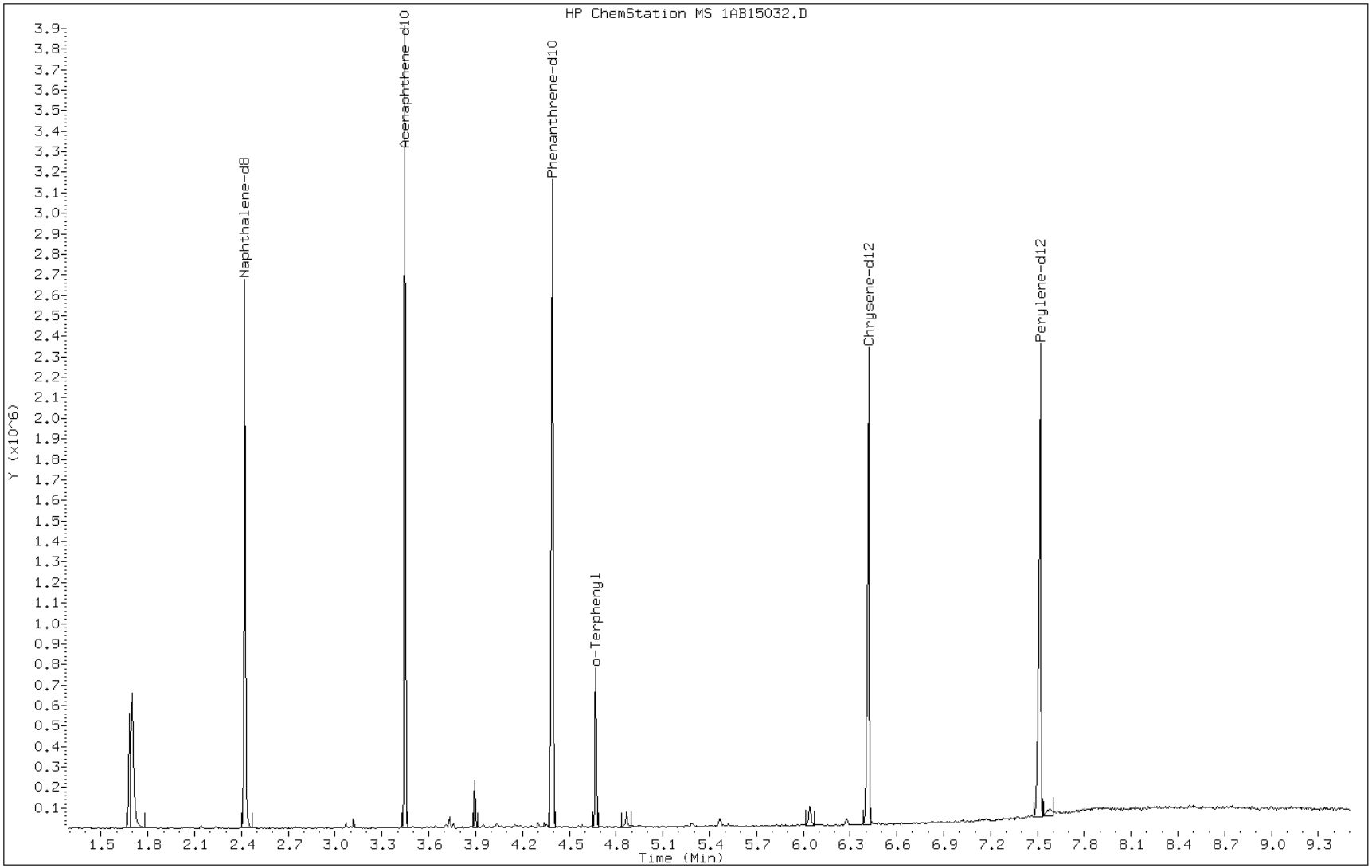
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.421	2.415	(1.000)	799893	40.0000	
* 6 Acenaphthene-d10	164	3.447	3.441	(1.000)	542307	40.0000	
* 10 Phenanthrene-d10	188	4.392	4.386	(1.000)	810431	40.0000	
$ 14 o-Terphenyl	230	4.670	4.664	(1.063)	110108	9.35021	613.9335
* 18 Chrysene-d12	240	6.417	6.411	(1.000)	663251	40.0000	
* 23 Perylene-d12	264	7.518	7.501	(1.000)	765255	40.0000	

Data File: 1AB15032.D

Date: 15-FEB-2013 21:55

Client ID: Instrument: BSMA5973.i

Sample Info: mb 660-134486/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87318-2
SDG No.: 68087318-2
Client Sample ID:
Lab Sample ID: LCS 660-134472/2-A
Matrix: Solid
Lab File ID: 1CB15009.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/14/2013 11:19
Sample wt/vol: 15.26(g)
Date Analyzed: 02/15/2013 13:38
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134530
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	485		98	20
208-96-8	Acenaphthylene	498		39	4.9
120-12-7	Anthracene	509		8.3	4.1
56-55-3	Benzo[a]anthracene	507		7.9	3.8
50-32-8	Benzo[a]pyrene	502		10	5.1
205-99-2	Benzo[b]fluoranthene	521		12	6.0
191-24-2	Benzo[g,h,i]perylene	463		20	4.3
207-08-9	Benzo[k]fluoranthene	508		7.9	3.5
218-01-9	Chrysene	462		8.8	4.4
53-70-3	Dibenz(a,h)anthracene	453		20	4.0
206-44-0	Fluoranthene	524		20	3.9
86-73-7	Fluorene	489		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	420		20	7.0
90-12-0	1-Methylnaphthalene	525		39	4.3
91-57-6	2-Methylnaphthalene	478		39	7.0
91-20-3	Naphthalene	481		39	4.3
85-01-8	Phenanthrene	460		7.9	3.8
129-00-0	Pyrene	538		20	3.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15009.D
Lab Smp Id: lcs 660-134472/2-a
Inj Date : 15-FEB-2013 13:38
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134472/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.821	(1.000)	2307582	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1791084	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3388620	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	373587	7.52426	493.0705
* 18 Chrysene-d12	240	7.810	7.815	(1.000)	3830695	40.0000	
* 23 Perylene-d12	264	9.027	9.039	(1.000)	3622690	40.0000	
2 Naphthalene	128	3.833	3.833	(1.005)	448532	7.33520	480.6813
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	290265	7.30046	478.4047
4 1-Methylnaphthalene	142	4.322	4.321	(1.133)	289600	8.00862	524.8113
5 Acenaphthylene	152	4.822	4.821	(0.982)	542000	7.60628	498.4459
7 Acenaphthene	154	4.927	4.927	(1.004)	330933	7.40486	485.2463
9 Fluorene	166	5.245	5.245	(1.068)	428077	7.46192	488.9856
11 Phenanthrene	178	5.874	5.880	(1.002)	710155	7.02095	460.0883
12 Anthracene	178	5.910	5.910	(1.008)	707432	7.76279	508.7016

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.016	6.015	(1.026)	652101	8.23792	539.8376
15 Fluoranthene	202	6.716	6.721	(1.145)	791067	8.00386	524.4995
16 Pyrene	202	6.886	6.886	(0.882)	836953	8.20683	537.8003
17 Benzo(a)anthracene	228	7.798	7.804	(0.998)	816615	7.73041	506.5799
19 Chrysene	228	7.827	7.833	(1.002)	768534	7.04320	461.5467
20 Benzo(b)fluoranthene	252	8.662	8.674	(0.960)	706410	7.95359	521.2048
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	759166	7.75875	508.4372
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	647771	7.66467	502.2717
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.262	(1.135)	520130	6.40761	419.8956(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.280	(1.137)	529179	6.91300	453.0146
26 Benzo(g,h,i)perylene	276	10.615	10.633	(1.176)	582036	7.05871	462.5631

QC Flag Legend

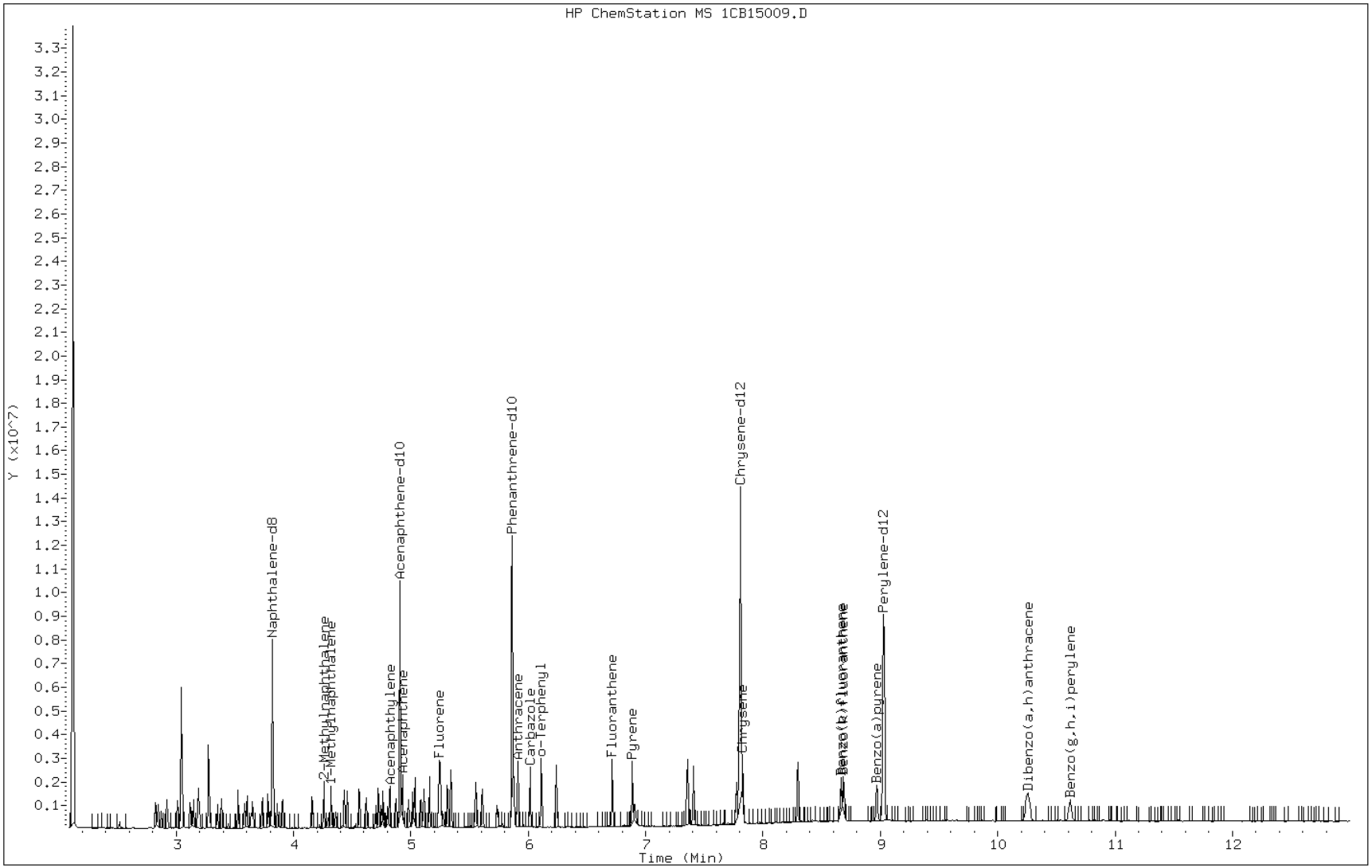
M - Compound response manually integrated.

Data File: 1CB15009.D

Date: 15-FEB-2013 13:38

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-134472/2-a Operator: SCC



Manual Integration Report

Data File: 1CB15009.D
Inj. Date and Time: 15-FEB-2013 13:38
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

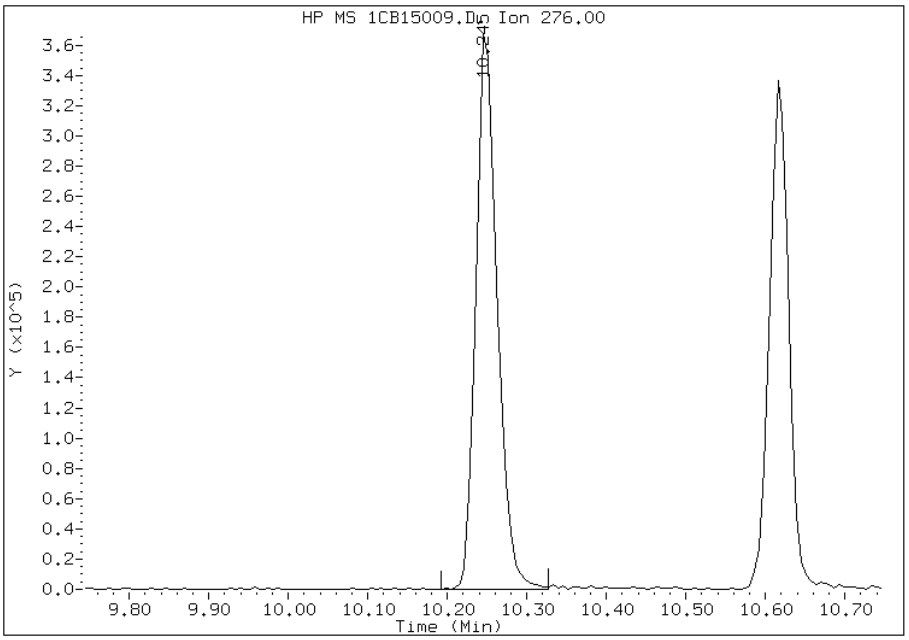
Processing Integration Results

RT: 10.25

Response: 679351

Amount: 8

Conc: 548



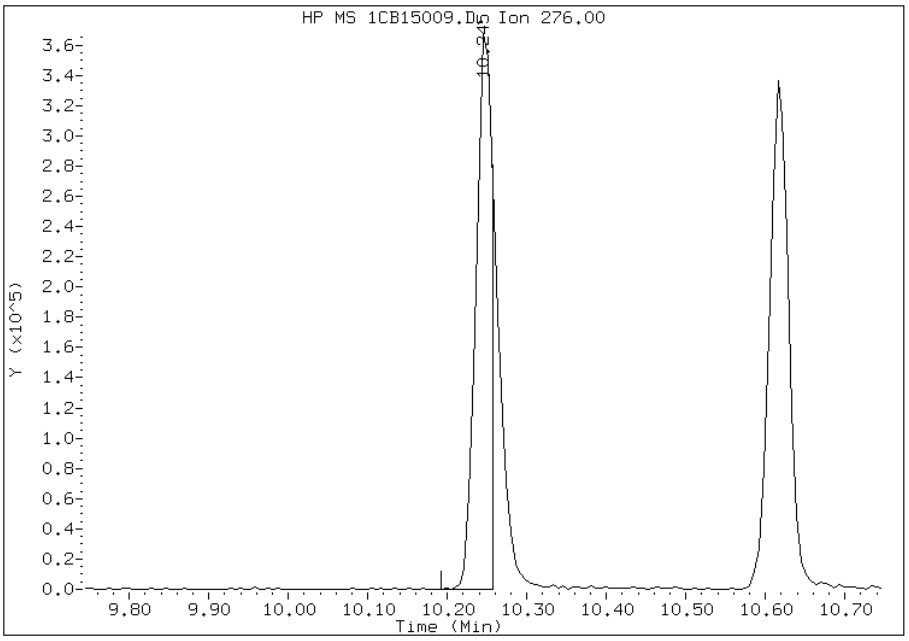
Manual Integration Results

RT: 10.25

Response: 520130

Amount: 6

Conc: 420



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:18
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87318-2
SDG No.: 68087318-2
Client Sample ID:
Lab Sample ID: LCS 660-134486/2-A
Matrix: Solid
Lab File ID: 1AB15033.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/14/2013 14:34
Sample wt/vol: 15.03(g)
Date Analyzed: 02/15/2013 22:10
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.: 134532
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	461		100	20
208-96-8	Acenaphthylene	461		40	5.0
120-12-7	Anthracene	479		8.4	4.2
56-55-3	Benzo[a]anthracene	542		8.0	3.9
50-32-8	Benzo[a]pyrene	364		10	5.2
205-99-2	Benzo[b]fluoranthene	390		12	6.1
191-24-2	Benzo[g,h,i]perylene	433		20	4.4
207-08-9	Benzo[k]fluoranthene	428		8.0	3.6
218-01-9	Chrysene	466		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	455		20	4.1
206-44-0	Fluoranthene	525		20	4.0
86-73-7	Fluorene	481		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	432		20	7.1
90-12-0	1-Methylnaphthalene	531		40	4.4
91-57-6	2-Methylnaphthalene	524		40	7.1
91-20-3	Naphthalene	496		40	4.4
85-01-8	Phenanthrene	463		8.0	3.9
129-00-0	Pyrene	424		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	79		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15033.D
Lab Smp Id: lcs 660-134486/2-a
Inj Date : 15-FEB-2013 22:10
Operator : SCC Inst ID: BSMA5973.i
Smp Info : lcs 660-134486/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 30 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.423	2.415	(1.000)	867392	40.0000	
* 6 Acenaphthene-d10	164	3.448	3.441	(1.000)	567376	40.0000	
* 10 Phenanthrene-d10	188	4.394	4.386	(1.000)	882209	40.0000	
$ 14 o-Terphenyl	230	4.672	4.664	(1.063)	101750	7.93746	528.1076
* 18 Chrysene-d12	240	6.418	6.411	(1.000)	862612	40.0000	
* 23 Perylene-d12	264	7.519	7.501	(1.000)	811068	40.0000	
2 Naphthalene	128	2.433	2.426	(1.004)	157005	7.45738	496.1665
3 2-Methylnaphthalene	141	2.834	2.832	(1.170)	88829	7.87571	523.9990
4 1-Methylnaphthalene	142	2.887	2.885	(1.192)	101876	7.97925	530.8882
5 Acenaphthylene	152	3.363	3.355	(0.975)	173540	6.92704	460.8805
7 Acenaphthene	154	3.464	3.462	(1.005)	93881	6.92361	460.6527
9 Fluorene	166	3.774	3.772	(1.094)	123219	7.22694	480.8342
11 Phenanthrene	178	4.404	4.402	(1.002)	167684	6.96129	463.1595
12 Anthracene	178	4.442	4.434	(1.011)	176912	7.20349	479.2737

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.597	4.589	(1.046)	158583	7.53296	501.1946
15 Fluoranthene	202	5.270	5.262	(1.199)	188617	7.89792	525.4773
16 Pyrene	202	5.441	5.433	(0.848)	198658	6.37681	424.2718
17 Benzo(a)anthracene	228	6.408	6.395	(0.998)	209821	8.14636	542.0064
19 Chrysene	228	6.434	6.427	(1.002)	175788	7.00201	465.8691
20 Benzo(b)fluoranthene	252	7.236	7.217	(0.962)	132623	5.85866	389.7975
21 Benzo(k)fluoranthene	252	7.252	7.239	(0.964)	152278	6.43396	428.0747
22 Benzo(a)pyrene	252	7.465	7.452	(0.993)	117603	5.47079	363.9915
24 Indeno(1,2,3-cd)pyrene	276	8.256	8.238	(1.098)	110254	6.49536	432.1596(M)
25 Dibenzo(a,h)anthracene	278	8.267	8.254	(1.099)	116131	6.84358	455.3277
26 Benzo(g,h,i)perylene	276	8.464	8.446	(1.126)	114362	6.50327	432.6860

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AB15033.D

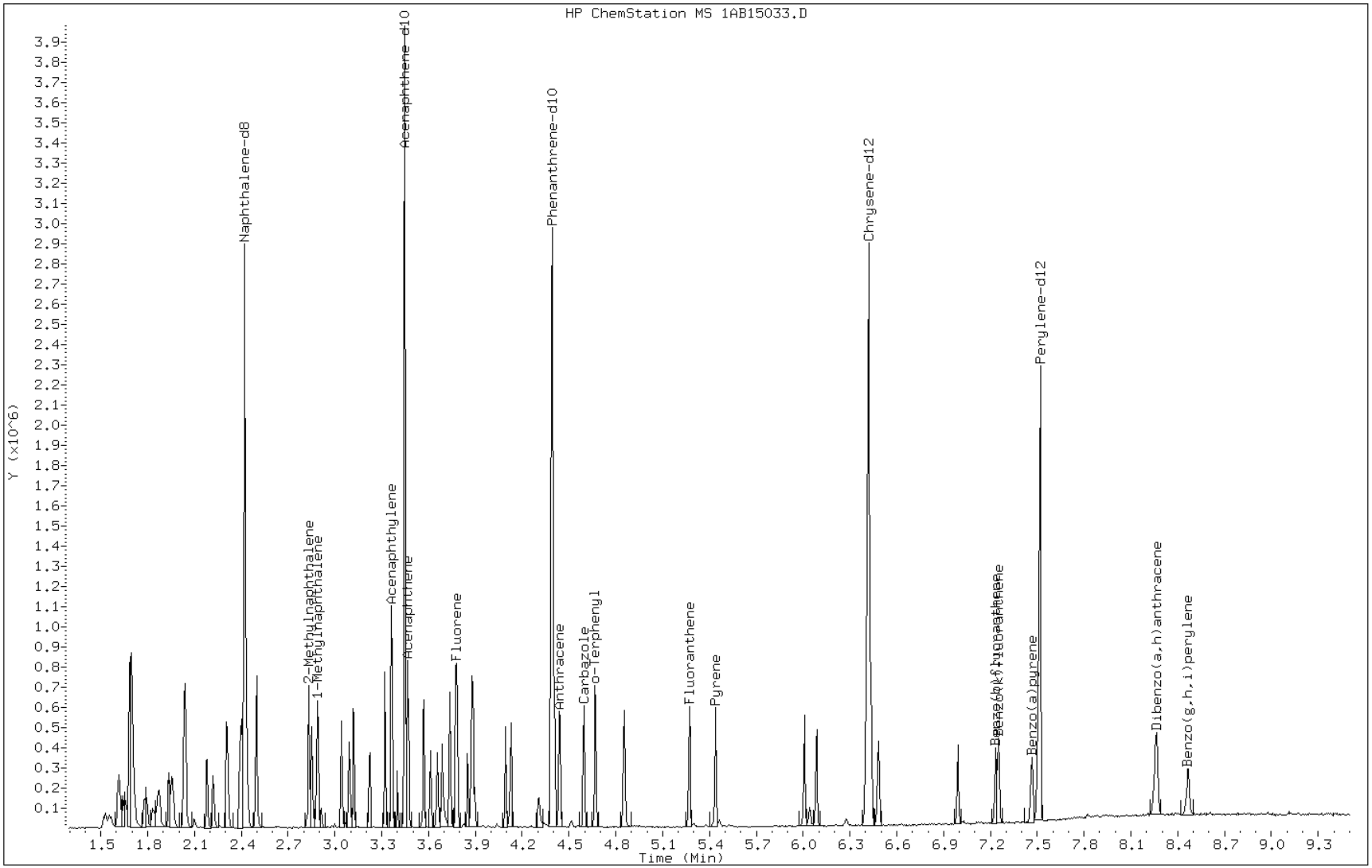
Date: 15-FEB-2013 22:10

Client ID:

Instrument: BSMA5973.i

Sample Info: lcs 660-134486/2-a

Operator: SCC



Manual Integration Report

Data File: 1AB15033.D
Inj. Date and Time: 15-FEB-2013 22:10
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

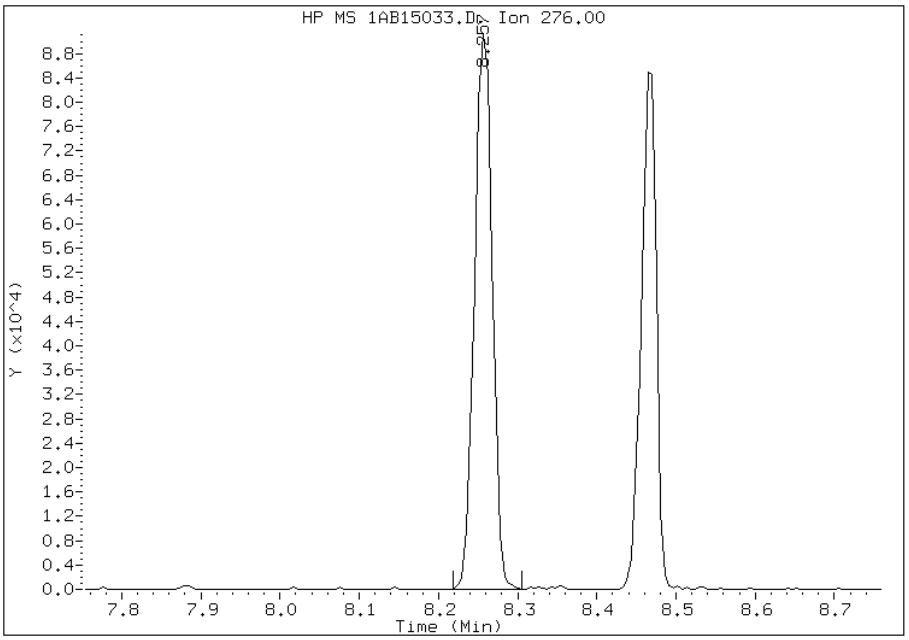
Processing Integration Results

RT: 8.26

Response: 140777

Amount: 8

Conc: 552



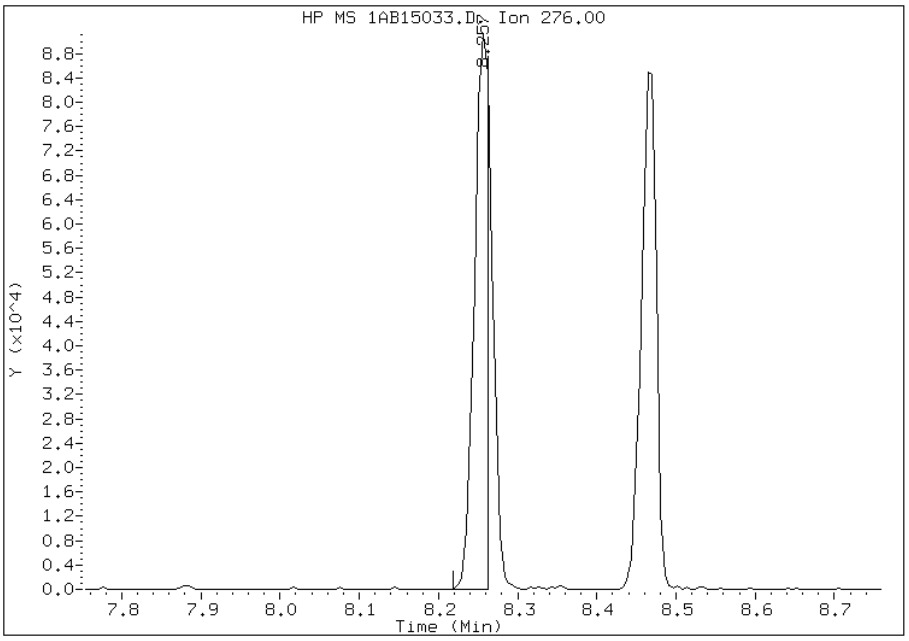
Manual Integration Results

RT: 8.26

Response: 110254

Amount: 6

Conc: 432



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 11:37
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87318-2
SDG No.: 68087318-2
Client Sample ID:
Lab Sample ID: 680-87279-A-21-B MS
Matrix: Solid
Lab File ID: 1CB15011.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/14/2013 11:19
Sample wt/vol: 15.13(g)
Date Analyzed: 02/15/2013 14:14
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 7.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134530
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	485		110	21
208-96-8	Acenaphthylene	502		43	5.3
120-12-7	Anthracene	505		9.0	4.5
56-55-3	Benzo[a]anthracene	556		8.5	4.2
50-32-8	Benzo[a]pyrene	533		11	5.5
205-99-2	Benzo[b]fluoranthene	619		13	6.5
191-24-2	Benzo[g,h,i]perylene	489		21	4.7
207-08-9	Benzo[k]fluoranthene	475		8.5	3.8
218-01-9	Chrysene	516		9.6	4.8
53-70-3	Dibenz(a,h)anthracene	462		21	4.4
206-44-0	Fluoranthene	602		21	4.3
86-73-7	Fluorene	480		21	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	470		21	7.6
90-12-0	1-Methylnaphthalene	540		43	4.7
91-57-6	2-Methylnaphthalene	503		43	7.6
91-20-3	Naphthalene	470		43	4.7
85-01-8	Phenanthrene	501		8.5	4.2
129-00-0	Pyrene	622		21	3.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	71		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15011.D
Lab Smp Id: 680-87279-a-21-b ms
Inj Date : 15-FEB-2013 14:14
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87279-a-21-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.821	(1.000)	2438858	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.910	(1.000)	1896166	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3573845	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	373817	7.13868	471.8229
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3794962	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3691062	40.0000	
2 Naphthalene	128	3.833	3.833	(1.005)	427420	6.61369	437.1242
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	297496	7.07957	467.9162
4 1-Methylnaphthalene	142	4.321	4.321	(1.133)	290390	7.59821	502.1952
5 Acenaphthylene	152	4.821	4.821	(0.983)	533019	7.06571	466.9997
7 Acenaphthene	154	4.927	4.927	(1.005)	322639	6.81920	450.7069
9 Fluorene	166	5.245	5.245	(1.070)	410304	6.75576	446.5140
11 Phenanthrene	178	5.874	5.880	(1.002)	750955	7.03953	465.2697
12 Anthracene	178	5.910	5.910	(1.008)	682410	7.10012	469.2740

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.015	6.015	(1.026)	598609	7.17023	473.9083
15 Fluoranthene	202	6.715	6.721	(1.145)	882615	8.46730	559.6363
16 Pyrene	202	6.886	6.886	(0.882)	883504	8.74487	577.9819
17 Benzo(a)anthracene	228	7.804	7.804	(0.999)	818912	7.82515	517.1941
19 Chrysene	228	7.827	7.833	(1.002)	784615	7.25828	479.7279
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	787825	8.70594	575.4092
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	666351	6.68402	441.7729
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	645341	7.49447	495.3383
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	546742	6.61068	436.9254(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	506337	6.49208	429.0863
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	578180	6.88206	454.8619

QC Flag Legend

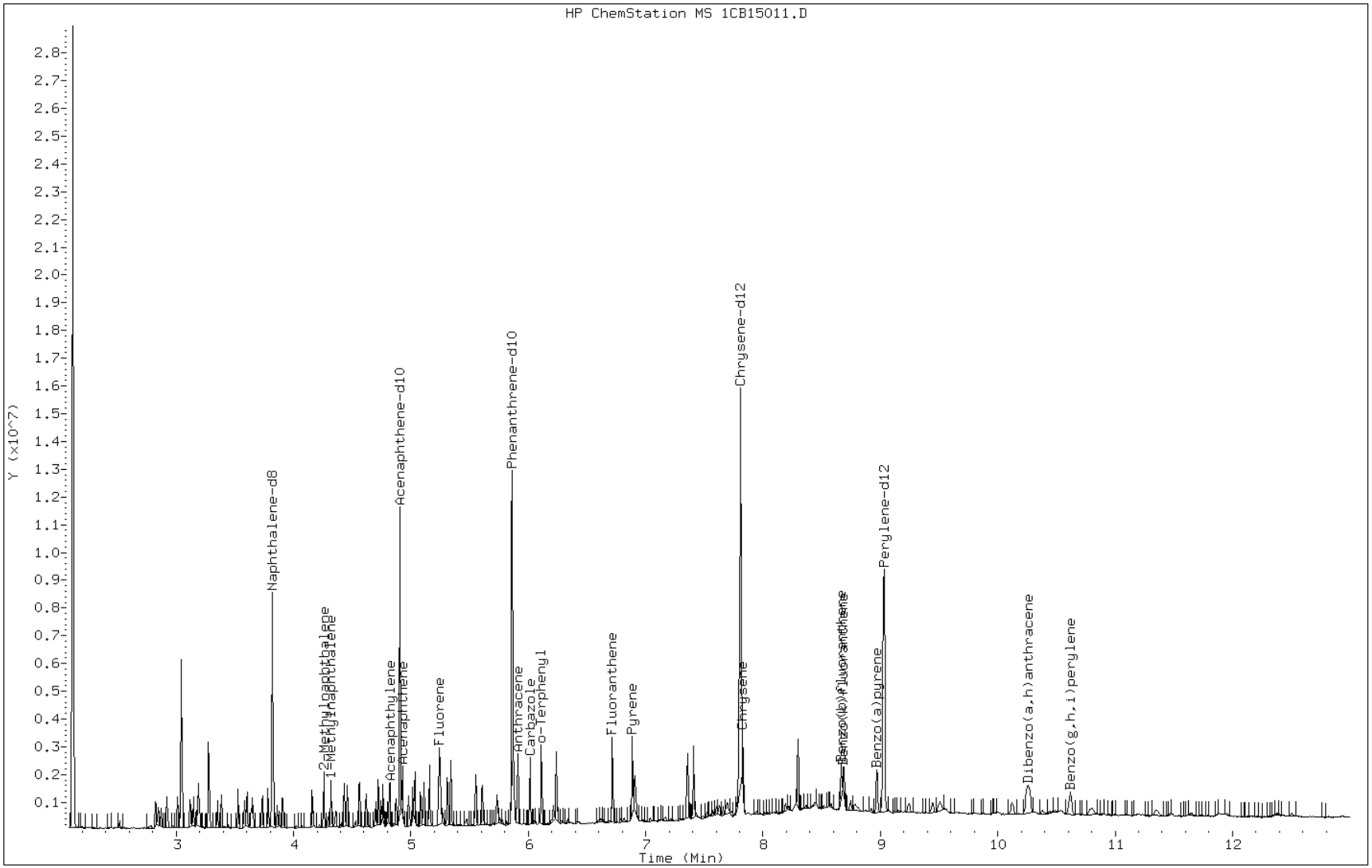
M - Compound response manually integrated.

Data File: 1CB15011.D

Date: 15-FEB-2013 14:14

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87279-a-21-b ms Operator: SCC



Manual Integration Report

Data File: 1CB15011.D
Inj. Date and Time: 15-FEB-2013 14:14
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

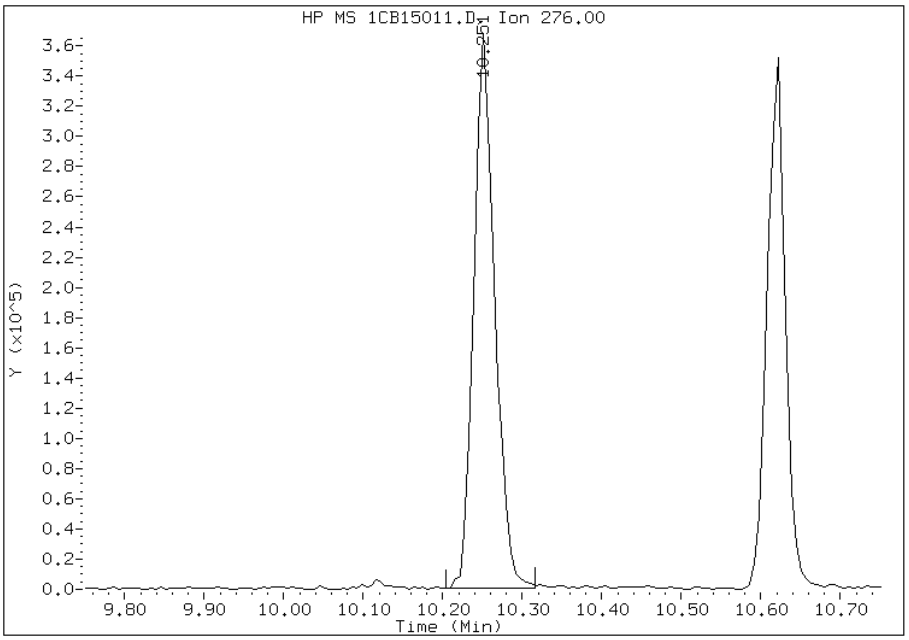
Processing Integration Results

RT: 10.25

Response: 666963

Amount: 8

Conc: 533



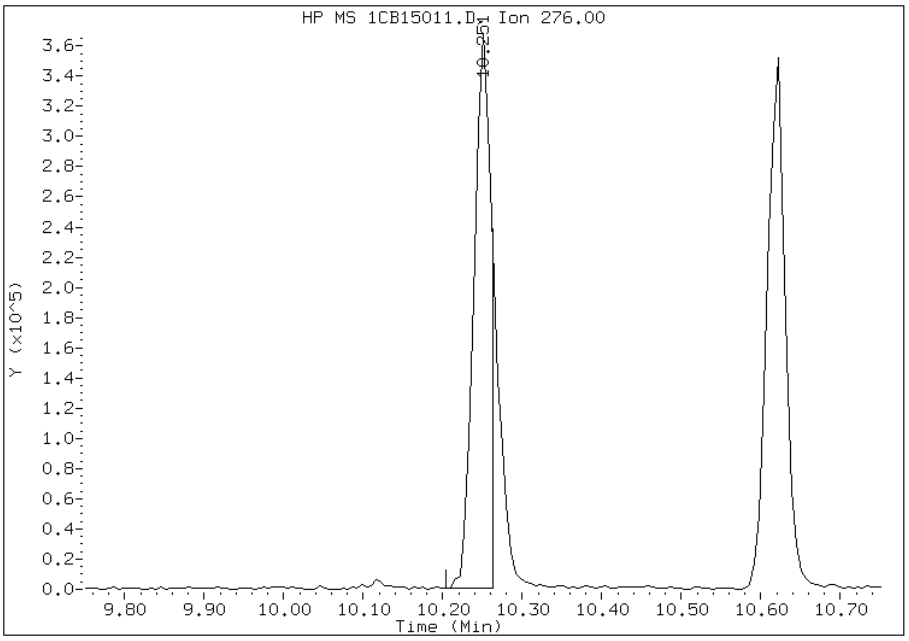
Manual Integration Results

RT: 10.25

Response: 546742

Amount: 7

Conc: 437



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005Y-CS MS | Lab Sample ID: 680-87318-36 MS

Matrix: Solid | Lab File ID: 1AB15046.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 15:00

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.06(g) | Date Analyzed: 02/16/2013 01:26

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

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

% Moisture: 29.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	789		560	110
208-96-8	Acenaphthylene	756		230	28
120-12-7	Anthracene	901		47	24
56-55-3	Benzo[a]anthracene	1240		45	22
50-32-8	Benzo[a]pyrene	835		59	29
205-99-2	Benzo[b]fluoranthene	1160		69	34
191-24-2	Benzo[g,h,i]perylene	770		110	25
207-08-9	Benzo[k]fluoranthene	720		45	20
218-01-9	Chrysene	1040		51	25
53-70-3	Dibenz(a,h)anthracene	737		110	23
206-44-0	Fluoranthene	1250		110	23
86-73-7	Fluorene	795		110	23
193-39-5	Indeno[1,2,3-cd]pyrene	823		110	40
90-12-0	1-Methylnaphthalene	1020		230	25
91-57-6	2-Methylnaphthalene	979		230	40
91-20-3	Naphthalene	871		230	25
85-01-8	Phenanthrene	1090		45	22
129-00-0	Pyrene	987		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	91		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15046.D
Lab Smp Id: 680-87318-a-36-b ms
Inj Date : 16-FEB-2013 01:26
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-36-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 43 QC Sample: MS
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	2.424	2.415	(1.000)	722867	40.0000	
* 6 Acenaphthene-d10	164	3.449	3.441	(1.000)	513391	40.0000	
* 10 Phenanthrene-d10	188	4.395	4.386	(1.000)	772680	40.0000	
$ 14 o-Terphenyl	230	4.673	4.664	(1.063)	25453	2.26703	602.1335
* 18 Chrysene-d12	240	6.425	6.411	(1.000)	677975	40.0000	
* 23 Perylene-d12	264	7.531	7.501	(1.000)	821479	40.0000	(H)
2 Naphthalene	128	2.434	2.426	(1.004)	40686	2.31886	615.8997
3 2-Methylnaphthalene	141	2.835	2.832	(1.170)	24516	2.60820	692.7496
4 1-Methylnaphthalene	142	2.894	2.885	(1.194)	29039	2.72916	724.8762
5 Acenaphthylene	152	3.364	3.355	(0.975)	45625	2.01267	534.5747
7 Acenaphthene	154	3.465	3.462	(1.005)	25802	2.10296	558.5551
9 Fluorene	166	3.775	3.772	(1.094)	32667	2.11743	562.3978
11 Phenanthrene	178	4.411	4.402	(1.004)	61263	2.90381	771.2640
12 Anthracene	178	4.443	4.434	(1.011)	51607	2.39920	637.2367

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.603	4.589	(1.047)	41563	2.25417	598.7182
15 Fluoranthene	202	5.276	5.262	(1.201)	69894	3.34152	887.5214(R)
16 Pyrene	202	5.442	5.433	(0.847)	64356	2.62838	698.1087
17 Benzo(a)anthracene	228	6.419	6.395	(0.999)	66910	3.30527	877.8945(R)
19 Chrysene	228	6.441	6.427	(1.002)	54544	2.76428	734.2053
20 Benzo(b)fluoranthene	252	7.242	7.217	(0.962)	70586	3.07864	817.6993(H)
21 Benzo(k)fluoranthene	252	7.258	7.239	(0.964)	45985	1.91831	509.5108(H)
22 Benzo(a)pyrene	252	7.472	7.452	(0.992)	48420	2.22391	590.6803(H)
24 Indeno(1,2,3-cd)pyrene	276	8.268	8.238	(1.098)	37706	2.19321	582.5257(MH)
25 Dibenzo(a,h)anthracene	278	8.279	8.254	(1.099)	33746	1.96344	521.4985(H)
26 Benzo(g,h,i)perylene	276	8.482	8.446	(1.126)	36553	2.05227	545.0910(H)

QC Flag Legend

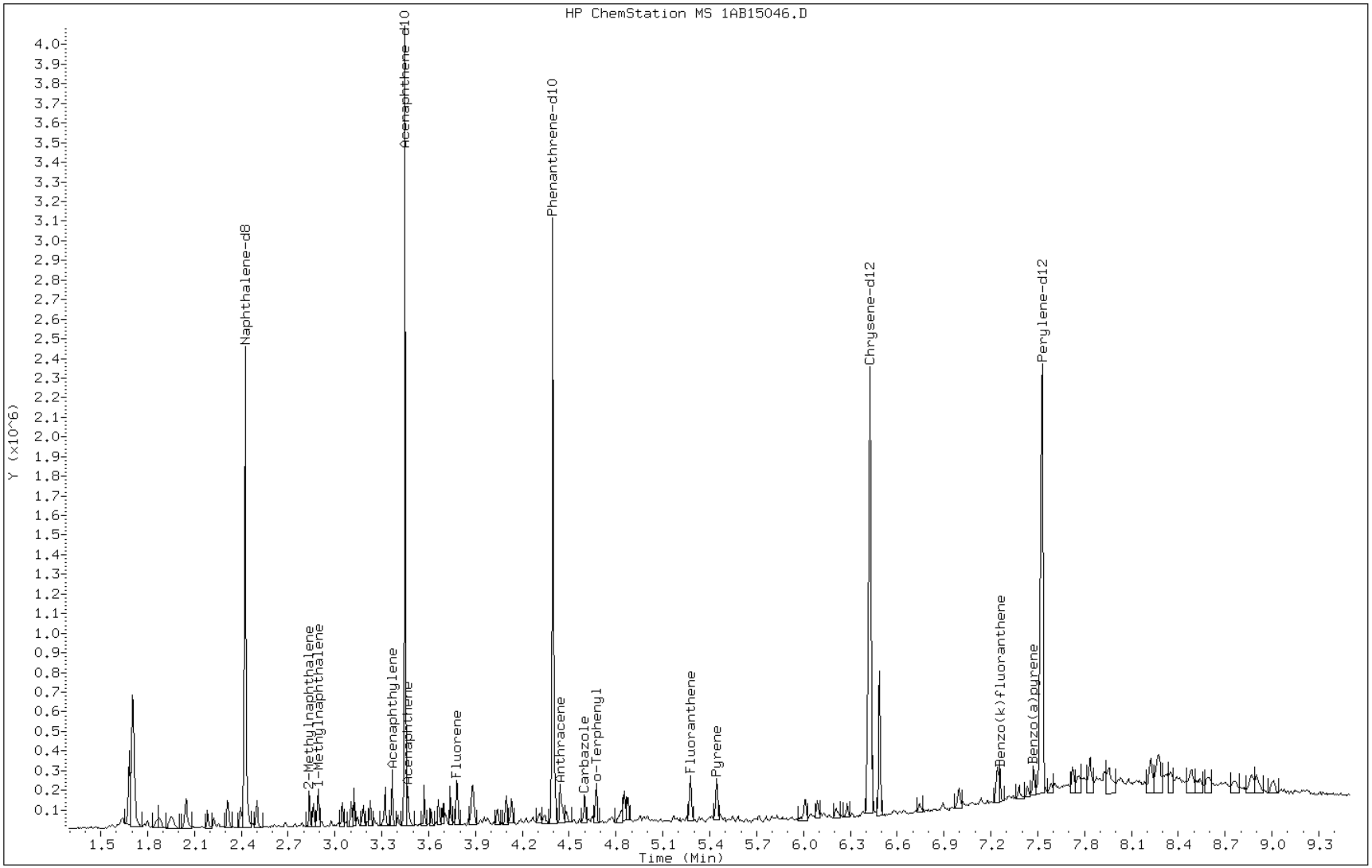
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB15046.D

Date: 16-FEB-2013 01:26

Client ID: Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-b ms Operator: SCC



Manual Integration Report

Data File: 1AB15046.D
Inj. Date and Time: 16-FEB-2013 01:26
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

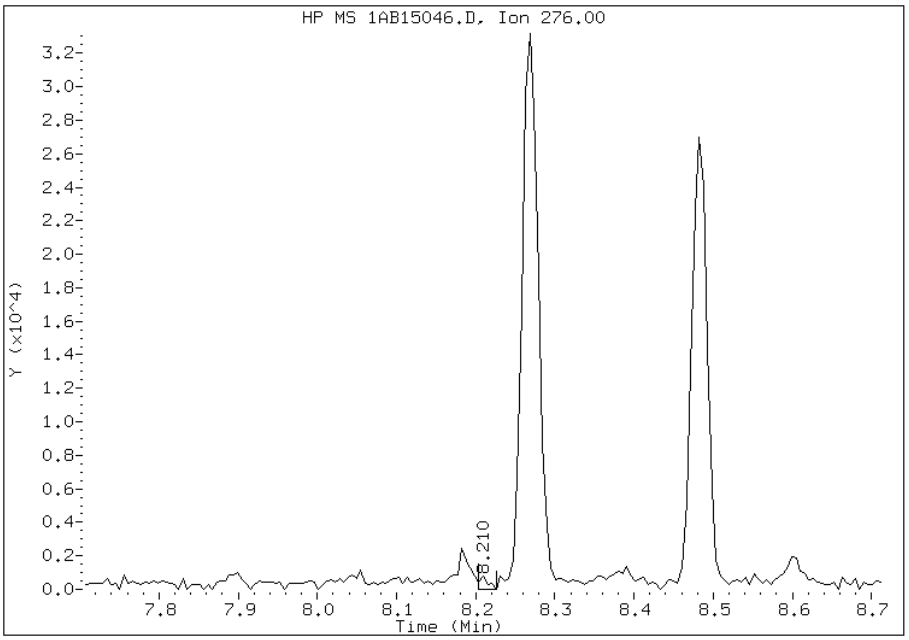
Processing Integration Results

RT: 8.21

Response: 586

Amount: 0

Conc: 9



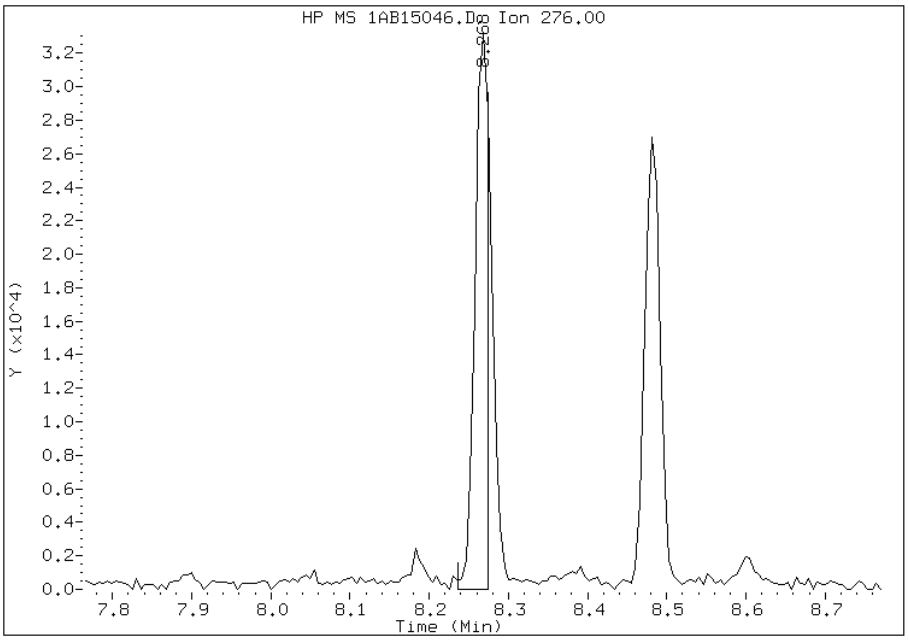
Manual Integration Results

RT: 8.27

Response: 37706

Amount: 2

Conc: 583



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:51
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87318-2
SDG No.: 68087318-2
Client Sample ID:
Lab Sample ID: 680-87279-A-21-C MSD
Matrix: Solid
Lab File ID: 1CB15012.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/14/2013 11:19
Sample wt/vol: 15.13(g)
Date Analyzed: 02/15/2013 14:33
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture: 7.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134530
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	482		110	21
208-96-8	Acenaphthylene	524		43	5.3
120-12-7	Anthracene	516		9.0	4.5
56-55-3	Benzo[a]anthracene	536		8.5	4.2
50-32-8	Benzo[a]pyrene	517		11	5.5
205-99-2	Benzo[b]fluoranthene	556		13	6.5
191-24-2	Benzo[g,h,i]perylene	478		21	4.7
207-08-9	Benzo[k]fluoranthene	557		8.5	3.8
218-01-9	Chrysene	492		9.6	4.8
53-70-3	Dibenz(a,h)anthracene	460		21	4.4
206-44-0	Fluoranthene	587		21	4.3
86-73-7	Fluorene	492		21	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	464		21	7.6
90-12-0	1-Methylnaphthalene	546		43	4.7
91-57-6	2-Methylnaphthalene	529		43	7.6
91-20-3	Naphthalene	493		43	4.7
85-01-8	Phenanthrene	486		8.5	4.2
129-00-0	Pyrene	595		21	3.9

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\1CB15012.D
Lab Smp Id: 680-87279-a-21-c ms
Inj Date : 15-FEB-2013 14:33
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87279-a-21-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 12:20 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 12 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.130	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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2500394	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1945760	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3614241	40.0000	
$ 14 o-Terphenyl	230	6.109	6.115	(1.042)	382583	7.22442	477.4900
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3979657	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3723416	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	459312	6.93226	458.1797
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	320692	7.44376	491.9865
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	301007	7.68218	507.7449
5 Acenaphthylene	152	4.821	4.821	(0.982)	570914	7.37515	487.4518
7 Acenaphthene	154	4.927	4.927	(1.004)	328790	6.77208	447.5927
9 Fluorene	166	5.245	5.245	(1.068)	431247	6.91961	457.3435
11 Phenanthrene	178	5.874	5.880	(1.002)	737863	6.83950	452.0486
12 Anthracene	178	5.909	5.910	(1.008)	704874	7.25187	479.3042

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.015	6.015	(1.026)	625284	7.40604	489.4936
15 Fluoranthene	202	6.715	6.721	(1.145)	870047	8.25344	545.5014
16 Pyrene	202	6.886	6.886	(0.882)	886107	8.36359	552.7818
17 Benzo(a)anthracene	228	7.798	7.804	(0.998)	827584	7.54100	498.4139
19 Chrysene	228	7.827	7.833	(1.002)	784835	6.92337	457.5921
20 Benzo(b)fluoranthene	252	8.662	8.674	(0.959)	713924	7.82074	516.9027
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	787918	7.83476	517.8295
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	631825	7.27375	480.7499
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.135)	543948	6.51975	430.9154(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	508947	6.46884	427.5504
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	569755	6.72285	444.3390

QC Flag Legend

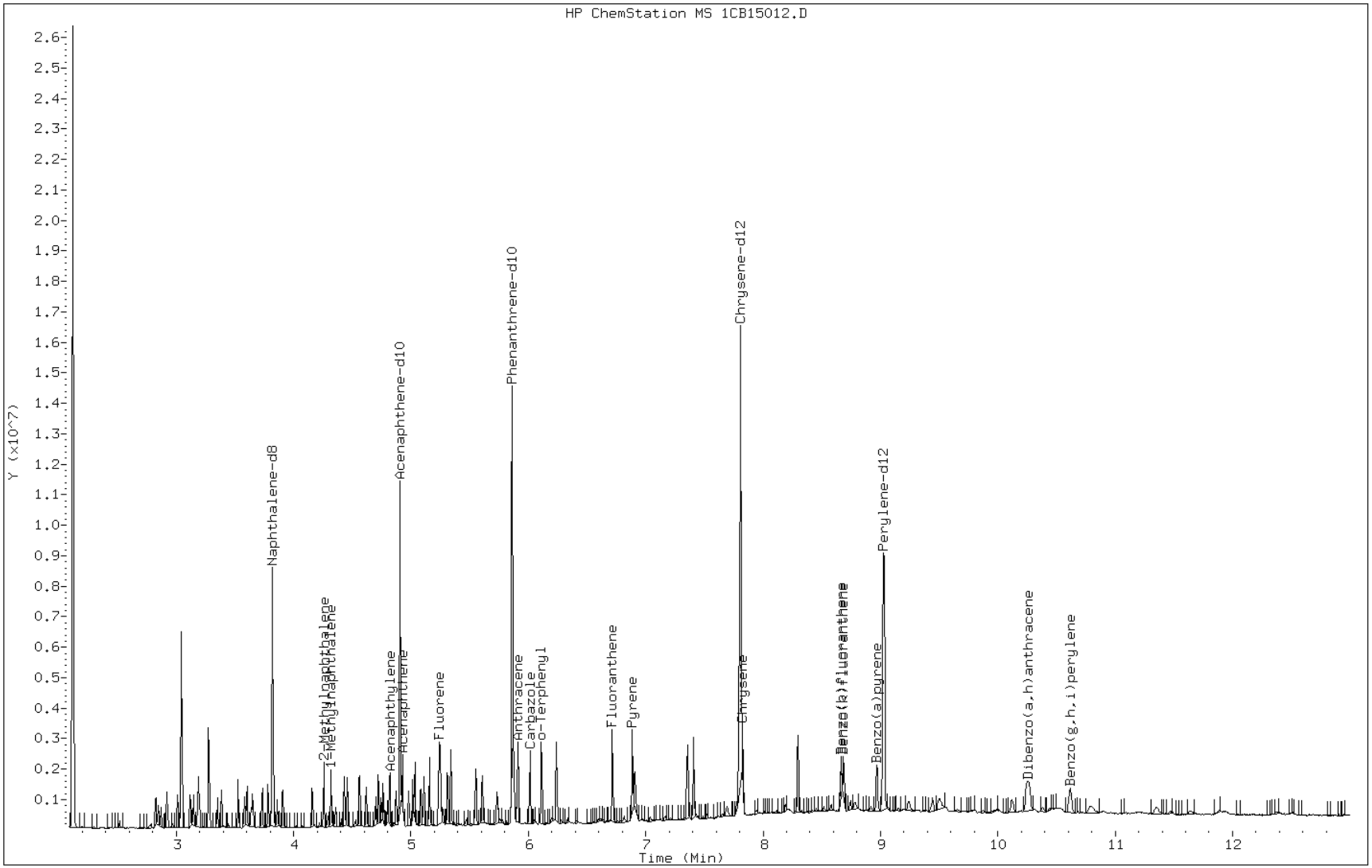
M - Compound response manually integrated.

Data File: 1CB15012.D

Date: 15-FEB-2013 14:33

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87279-a-21-c msd Operator: SCC



Manual Integration Report

Data File: 1CB15012.D
Inj. Date and Time: 15-FEB-2013 14:33
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/19/2013

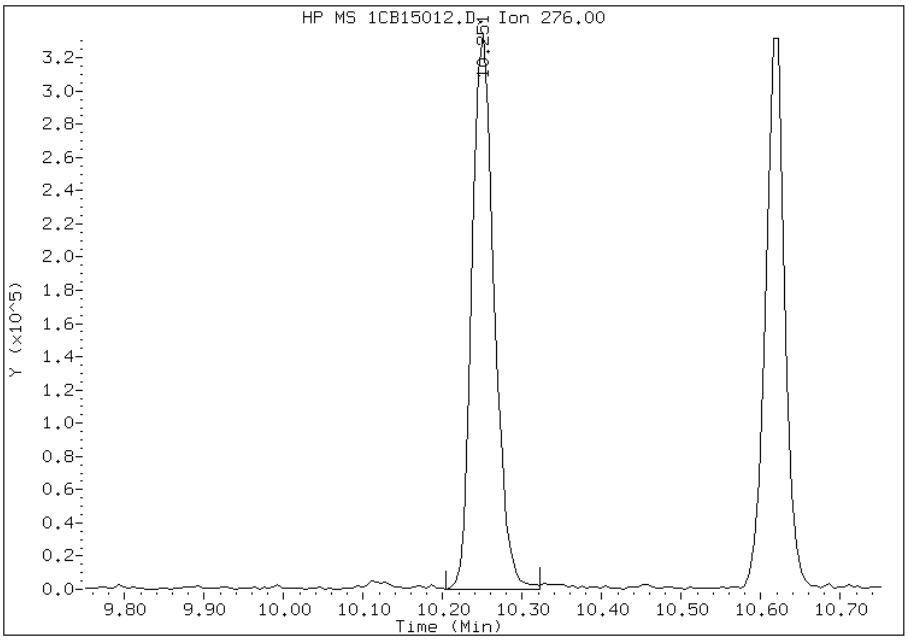
Processing Integration Results

RT: 10.25

Response: 648163

Amount: 8

Conc: 513



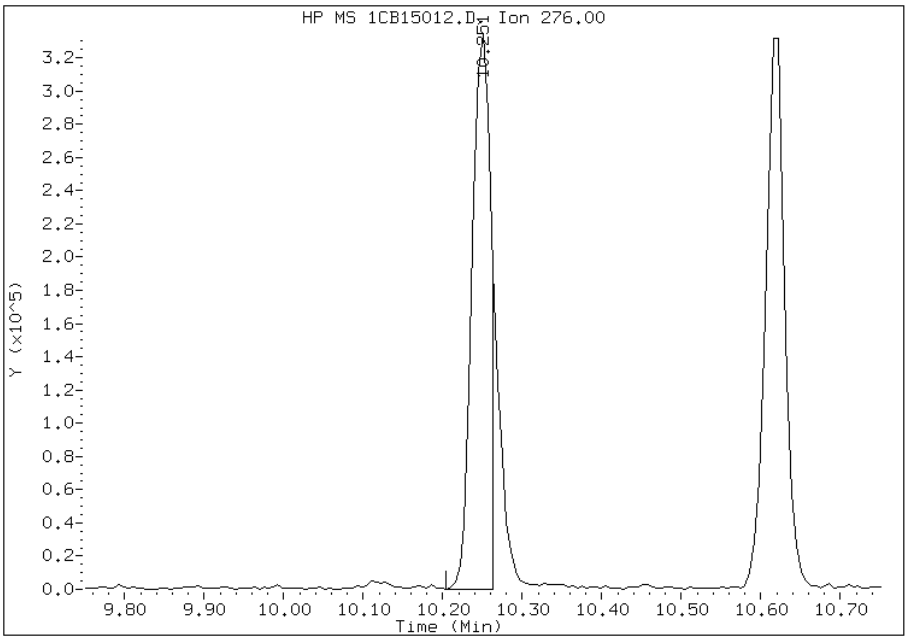
Manual Integration Results

RT: 10.25

Response: 543948

Amount: 7

Conc: 431



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 13:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87318-2

SDG No.: 68087318-2

Client Sample ID: CV0005Y-CS MSD | Lab Sample ID: 680-87318-36 MSD

Matrix: Solid | Lab File ID: 1AB15047.D

Analysis Method: 8270C LL | Date Collected: 02/07/2013 15:00

Extract. Method: 3546 | Date Extracted: 02/14/2013 14:34

Sample wt/vol: 15.23(g) | Date Analyzed: 02/16/2013 01:41

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

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

% Moisture: 29.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134532 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	871		560	110
208-96-8	Acenaphthylene	877		220	28
120-12-7	Anthracene	1290		47	23
56-55-3	Benzo[a]anthracene	3040		45	22
50-32-8	Benzo[a]pyrene	1750		58	29
205-99-2	Benzo[b]fluoranthene	2540		68	34
191-24-2	Benzo[g,h,i]perylene	1190		110	25
207-08-9	Benzo[k]fluoranthene	1440		45	20
218-01-9	Chrysene	2340		50	25
53-70-3	Dibenz(a,h)anthracene	944		110	23
206-44-0	Fluoranthene	4780		110	22
86-73-7	Fluorene	918		110	23
193-39-5	Indeno[1,2,3-cd]pyrene	1250		110	40
90-12-0	1-Methylnaphthalene	962		220	25
91-57-6	2-Methylnaphthalene	1010		220	40
91-20-3	Naphthalene	844		220	25
85-01-8	Phenanthrene	3040		45	22
129-00-0	Pyrene	2960		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	94		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\1AB15047.D
Lab Smp Id: 680-87318-a-36-c ms
Inj Date : 16-FEB-2013 01:41
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87318-a-36-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A021513.b\a-bFASTPAHi-m.m
Meth Date : 15-Feb-2013 15:32 cantins Quant Type: ISTD
Cal Date : 30-JAN-2013 13:20 Cal File: 1AA30009.D
Als bottle: 44 QC Sample: MSD
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.230	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	2.427	2.415	(1.000)	736143	40.0000	
* 6 Acenaphthene-d10	164	3.447	3.441	(1.000)	505040	40.0000	
* 10 Phenanthrene-d10	188	4.398	4.386	(1.000)	790652	40.0000	
$ 14 o-Terphenyl	230	4.671	4.664	(1.062)	27046	2.35416	618.2957
* 18 Chrysene-d12	240	6.428	6.411	(1.000)	738892	40.0000	
* 23 Perylene-d12	264	7.534	7.501	(1.000)	856519	40.0000	(H)
2 Naphthalene	128	2.438	2.426	(1.004)	40635	2.27419	597.2918
3 2-Methylnaphthalene	141	2.838	2.832	(1.169)	25985	2.71463	712.9690
4 1-Methylnaphthalene	142	2.892	2.885	(1.191)	28093	2.59264	680.9286
5 Acenaphthylene	152	3.362	3.355	(0.975)	52701	2.36326	620.6859
7 Acenaphthene	154	3.469	3.462	(1.006)	28327	2.34693	616.3974
9 Fluorene	166	3.778	3.772	(1.096)	37518	2.47207	649.2644
11 Phenanthrene	178	4.409	4.402	(1.002)	176825	8.19083	2151.2350(R)
12 Anthracene	178	4.441	4.434	(1.010)	76297	3.46640	910.4142(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	4.601	4.589	(1.046)	61944	3.28318	862.2917(R)
15 Fluoranthene	202	5.280	5.262	(1.200)	275624	12.8776	3382.1695(R)
16 Pyrene	202	5.445	5.433	(0.847)	212772	7.97345	2094.1426(R)
17 Benzo(a)anthracene	228	6.423	6.395	(0.999)	180634	8.18745	2150.3473(R)
19 Chrysene	228	6.444	6.427	(1.002)	135483	6.30018	1654.6766(R)
20 Benzo(b)fluoranthene	252	7.245	7.217	(0.962)	163558	6.84181	1796.9310(RH)
21 Benzo(k)fluoranthene	252	7.261	7.239	(0.964)	97053	3.88303	1019.8368(RH)
22 Benzo(a)pyrene	252	7.475	7.452	(0.992)	107056	4.71588	1238.5777(RH)
24 Indeno(1,2,3-cd)pyrene	276	8.271	8.238	(1.098)	60252	3.36125	882.7966(RMH)
25 Dibenzo(a,h)anthracene	278	8.282	8.254	(1.099)	45572	2.54304	667.9029(H)
26 Benzo(g,h,i)perylene	276	8.490	8.446	(1.127)	59775	3.21877	845.3763(H)

QC Flag Legend

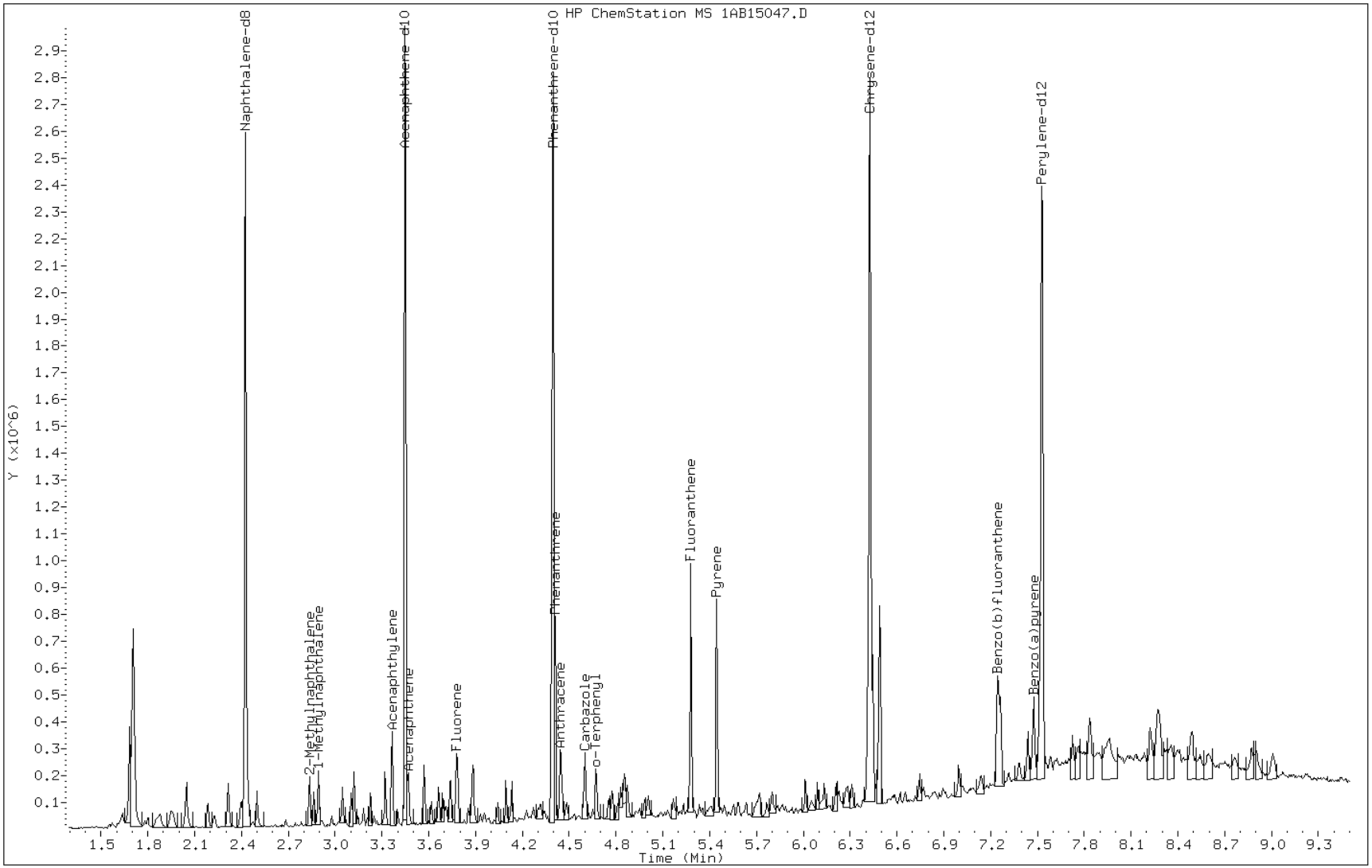
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB15047.D

Date: 16-FEB-2013 01:41

Client ID: Instrument: BSMA5973.i

Sample Info: 680-87318-a-36-c msd Operator: SCC



Manual Integration Report

Data File: 1AB15047.D
Inj. Date and Time: 16-FEB-2013 01:41
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/18/2013

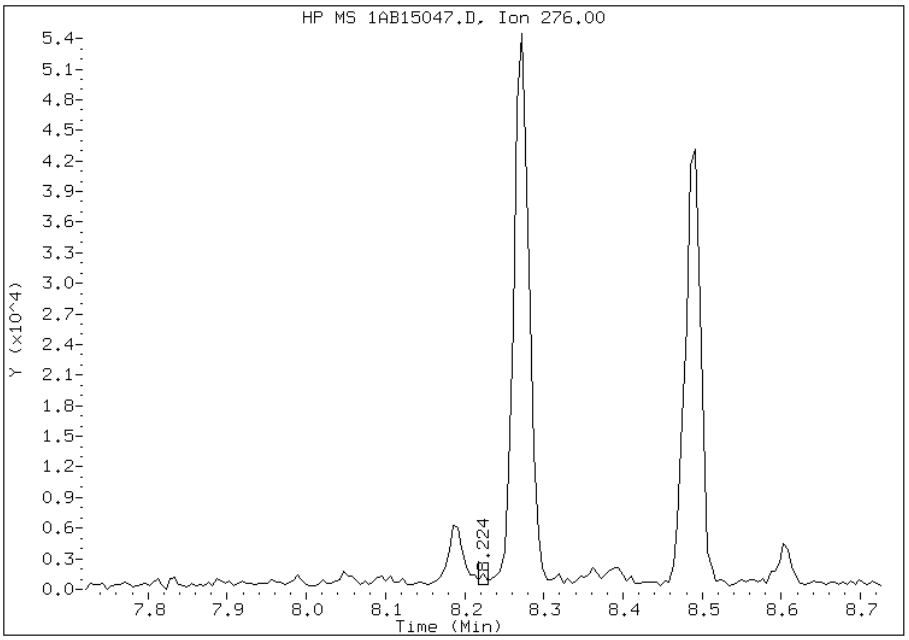
Processing Integration Results

RT: 8.22

Response: 629

Amount: 0

Conc: 9



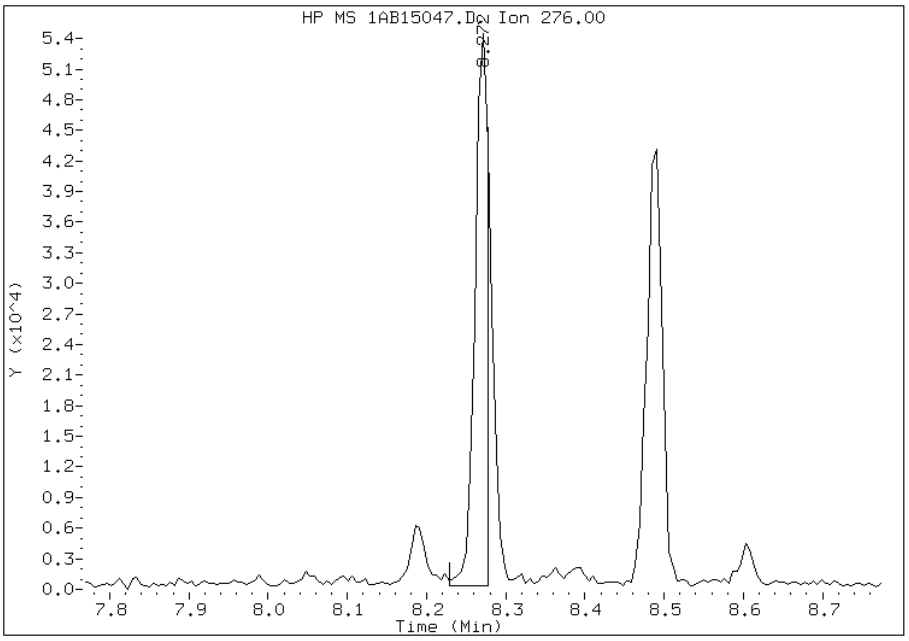
Manual Integration Results

RT: 8.27

Response: 60252

Amount: 3

Conc: 883



Manually Integrated By: cantins
Modification Date: 18-Feb-2013 12:55
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMA5973 Start Date: 01/30/2013 10:50

Analysis Batch Number: 133924 End Date: 01/30/2013 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/30/2013 10:50	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 11:05	1		DB-5MS 250(um)
DFTPP 660-133924/2		01/30/2013 11:20	1	1AA30002.D	DB-5MS 250(um)
ICIS 660-133924/3		01/30/2013 11:38	1	1AA30003.D	DB-5MS 250(um)
IC 660-133924/4		01/30/2013 12:04	1	1AA30004.D	DB-5MS 250(um)
IC 660-133924/5		01/30/2013 12:19	1	1AA30005.D	DB-5MS 250(um)
IC 660-133924/6		01/30/2013 12:34	1	1AA30006.D	DB-5MS 250(um)
IC 660-133924/7		01/30/2013 12:49	1	1AA30007.D	DB-5MS 250(um)
IC 660-133924/8		01/30/2013 13:04	1	1AA30008.D	DB-5MS 250(um)
IC 660-133924/9		01/30/2013 13:20	1	1AA30009.D	DB-5MS 250(um)
ICV 660-133924/10		01/30/2013 13:35	1	1AA30010.D	DB-5MS 250(um)
ZZZZZ		01/30/2013 13:52	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:08	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:23	20		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:39	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 14:54	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:09	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:24	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:39	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 15:54	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:25	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:40	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 16:55	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:10	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:25	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:40	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 17:55	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:11	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:26	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:41	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 18:56	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:11	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:26	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:42	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 19:57	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 20:12	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 20:27	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 20:42	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 20:57	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:12	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:28	1		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:43	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 21:58	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 22:13	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMA5973 Start Date: 01/30/2013 10:50

Analysis Batch Number: 133924 End Date: 01/30/2013 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/30/2013 22:28	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 22:43	4		DB-5MS 250(um)
ZZZZZ		01/30/2013 22:58	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMA5973 Start Date: 02/15/2013 11:37

Analysis Batch Number: 134532 End Date: 02/16/2013 02:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/15/2013 11:37	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 11:52	1		DB-5MS 250(um)
DFTPP 660-134532/2		02/15/2013 12:07	1		DB-5MS 250(um)
CCV 660-134532/3		02/15/2013 12:36	1		DB-5MS 250(um)
CCV 660-134532/5		02/15/2013 12:36	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 14:37	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 14:53	1		DB-5MS 250(um)
DFTPP 660-134532/7		02/15/2013 15:08	1	1AB15005.D	DB-5MS 250(um)
CCVIS 660-134532/8		02/15/2013 15:21	1	1AB15006.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 15:37	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 15:52	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 16:07	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 16:22	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 16:37	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 16:52	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:07	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:22	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:37	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:52	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:07	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:23	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:38	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:53	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:08	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:23	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:38	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:53	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:09	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:24	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:39	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 20:54	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:09	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:24	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:40	4		DB-5MS 250(um)
MB 660-134486/1-A		02/15/2013 21:55	1	1AB15032.D	DB-5MS 250(um)
LCS 660-134486/2-A		02/15/2013 22:10	1	1AB15033.D	DB-5MS 250(um)
680-87318-25	CV0005R-CS	02/15/2013 22:25	4	1AB15034.D	DB-5MS 250(um)
680-87318-26	CV0005R-CSD	02/15/2013 22:40	4	1AB15035.D	DB-5MS 250(um)
680-87318-27	CV0005S-CS	02/15/2013 22:55	4	1AB15036.D	DB-5MS 250(um)
680-87318-28	CV0005T-CS	02/15/2013 23:10	4	1AB15037.D	DB-5MS 250(um)
680-87318-29	CV0005T-CSD	02/15/2013 23:25	4	1AB15038.D	DB-5MS 250(um)
680-87318-30	CV0005U-CS	02/15/2013 23:40	4	1AB15039.D	DB-5MS 250(um)
680-87318-31	CV0005U-CSD	02/15/2013 23:56	4	1AB15040.D	DB-5MS 250(um)
ZZZZZ		02/16/2013 00:11	4		DB-5MS 250(um)
ZZZZZ		02/16/2013 00:26	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMA5973 Start Date: 02/15/2013 11:37

Analysis Batch Number: 134532 End Date: 02/16/2013 02:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
680-87318-34	CV0005X-CS	02/16/2013 00:41	4	1AB15043.D	DB-5MS 250(um)
680-87318-35	CV0005X-CSD	02/16/2013 00:56	4	1AB15044.D	DB-5MS 250(um)
680-87318-36	CV0005Y-CS	02/16/2013 01:11	4	1AB15045.D	DB-5MS 250(um)
680-87318-36 MS	CV0005Y-CS MS	02/16/2013 01:26	4	1AB15046.D	DB-5MS 250(um)
680-87318-36 MSD	CV0005Y-CS MSD	02/16/2013 01:41	4	1AB15047.D	DB-5MS 250(um)
680-87318-37	CV0005Z-CS	02/16/2013 01:57	4	1AB15048.D	DB-5MS 250(um)
680-87318-38	CV0005Z-CSD	02/16/2013 02:12	4	1AB15049.D	DB-5MS 250(um)
680-87318-39	CV0005AA-CS	02/16/2013 02:27	4	1AB15050.D	DB-5MS 250(um)
680-87318-40	CV0005BB-CS	02/16/2013 02:42	4	1AB15051.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMC5973 Start Date: 01/07/2013 10:42

Analysis Batch Number: 133227 End Date: 01/07/2013 17:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/07/2013 10:42	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 11:03	1		DB-5MS 250(um)
DFTPP 660-133227/1		01/07/2013 11:23	1	1CA07002.D	DB-5MS 250(um)
IC 660-133227/13		01/07/2013 11:50	1		DB-5MS 250(um)
IC 660-133227/14		01/07/2013 12:11	1		DB-5MS 250(um)
IC 660-133227/15		01/07/2013 12:32	1		DB-5MS 250(um)
IC 660-133227/16		01/07/2013 12:52	1		DB-5MS 250(um)
ICIS 660-133227/17		01/07/2013 13:13	1		DB-5MS 250(um)
IC 660-133227/18		01/07/2013 13:34	1		DB-5MS 250(um)
IC 660-133227/19		01/07/2013 14:03	1		DB-5MS 250(um)
IC 660-133227/20		01/07/2013 14:24	1		DB-5MS 250(um)
ICV 660-133227/21		01/07/2013 14:45	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 15:04	1		DB-5MS 250(um)
IC 660-133227/3		01/07/2013 15:23	1	1CA07013.D	DB-5MS 250(um)
IC 660-133227/4		01/07/2013 15:41	1	1CA07014.D	DB-5MS 250(um)
IC 660-133227/5		01/07/2013 15:59	1	1CA07015.D	DB-5MS 250(um)
IC 660-133227/6		01/07/2013 16:18	1	1CA07016.D	DB-5MS 250(um)
ICIS 660-133227/7		01/07/2013 16:36	1	1CA07017.D	DB-5MS 250(um)
IC 660-133227/8		01/07/2013 16:54	1	1CA07018.D	DB-5MS 250(um)
IC 660-133227/9		01/07/2013 17:13	1	1CA07019.D	DB-5MS 250(um)
ICV 660-133227/10		01/07/2013 17:31	1	1CA07020.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMC5973 Start Date: 02/15/2013 10:47

Analysis Batch Number: 134530 End Date: 02/15/2013 21:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/15/2013 10:47	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 11:05	1		DB-5MS 250(um)
DFTPP 660-134530/2		02/15/2013 11:23	1		DB-5MS 250(um)
DFTPP 660-134530/3		02/15/2013 11:40	1	1CB15003.D	DB-5MS 250(um)
CCVIS 660-134530/4		02/15/2013 11:56	1	1CB15004.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 12:25	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 12:43	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 13:01	1		DB-5MS 250(um)
MB 660-134472/1-A		02/15/2013 13:20	1	1CB15008.D	DB-5MS 250(um)
LCS 660-134472/2-A		02/15/2013 13:38	1	1CB15009.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 13:56	1		DB-5MS 250(um)
680-87279-A-21-B MS		02/15/2013 14:14	1	1CB15011.D	DB-5MS 250(um)
680-87279-A-21-C MSD		02/15/2013 14:33	1	1CB15012.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 14:51	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 15:09	40		DB-5MS 250(um)
ZZZZZ		02/15/2013 15:28	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 15:46	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 16:04	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 16:23	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 16:41	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:00	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:18	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:36	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 17:55	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:13	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:31	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 18:50	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:08	1		DB-5MS 250(um)
ZZZZZ		02/15/2013 19:26	1		DB-5MS 250(um)
680-87318-21	CV0005O-CS	02/15/2013 19:45	1	1CB15029.D	DB-5MS 250(um)
680-87318-22	CV0005O-CSD	02/15/2013 20:03	1	1CB15030.D	DB-5MS 250(um)
680-87318-23	CV0005Q-CS	02/15/2013 20:21	4	1CB15031.D	DB-5MS 250(um)
680-87318-24	CV0005P-CS	02/15/2013 20:39	1	1CB15032.D	DB-5MS 250(um)
ZZZZZ		02/15/2013 20:58	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:16	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:34	4		DB-5MS 250(um)
ZZZZZ		02/15/2013 21:53	4		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: BSMC5973 Start Date: 02/18/2013 13:14

Analysis Batch Number: 134598 End Date: 02/18/2013 17:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/18/2013 13:14	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 13:32	1		DB-5MS 250(um)
DFTPP 660-134598/2		02/18/2013 13:50	1	1CB18002.D	DB-5MS 250(um)
CCVIS 660-134598/3		02/18/2013 14:07	1	1CB18003.D	DB-5MS 250(um)
ZZZZZ		02/18/2013 14:28	1		DB-5MS 250(um)
680-87318-32	CV0005V-CS	02/18/2013 14:47	4	1CB18005.D	DB-5MS 250(um)
680-87318-33	CV0005W-CS	02/18/2013 15:05	4	1CB18006.D	DB-5MS 250(um)
ZZZZZ		02/18/2013 15:23	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 15:41	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 16:00	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 16:18	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 16:36	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 16:54	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 17:13	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 17:31	1		DB-5MS 250(um)
ZZZZZ		02/18/2013 17:49	4		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Batch Number: 134472 Batch Start Date: 02/14/13 11:19 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/14/13 15:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00174		
MB 660-134472/1		3546, 8270C LL		15.10 g	1 mL		1 mL		
LCS 660-134472/2		3546, 8270C LL		15.26 g	1 mL	1 mL	1 mL		
680-87279-A-21 MS		3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL		
680-87279-A-21 MSD		3546, 8270C LL	T	15.13 g	1 mL	1 mL	1 mL		
680-87318-A-21	CV0005O-CS	3546, 8270C LL	T	15.25 g	1 mL		1 mL		
680-87318-A-22	CV0005O-CSD	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-87318-A-23	CV0005Q-CS	3546, 8270C LL	T	15.01 g	1 mL		1 mL		
680-87318-A-24	CV0005P-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Batch Number: 134472 Batch Start Date: 02/14/13 11:19 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/14/13 15:20

Batch Notes	
Acetone Lot #	EX-ACETON BOT_50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	SAUREL
Exchange Solvent Lot #	EX-MC CYCL_52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_52
MeCl2/Acetone Lot #	dcm/ acton _17
Microwave Start Time	13:30 2/14/13
Microwave Stop Time	14:05 2/14/13
Na2SO4 Lot Number	EX-NA2S04A_62
Ottawa Sand Lot #	EX-OTTOWA SAND_10
Person's name who did the prep	AG
SOP Number	TP-EX-14
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT_174.
Water Bath ID	TURBOVAP2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Batch Number: 134486 Batch Start Date: 02/14/13 14:34 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/15/13 12:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00174		
MB 660-134486/1		3546, 8270C LL		15.23 g	1 mL		1 mL		
LCS 660-134486/2		3546, 8270C LL		15.03 g	1 mL	1 mL	1 mL		
680-87318-A-25	CV0005R-CS	3546, 8270C LL	T	14.96 g	1 mL		1 mL		
680-87318-A-26	CV0005R-CSD	3546, 8270C LL	T	14.97 g	1 mL		1 mL		
680-87318-A-27	CV0005S-CS	3546, 8270C LL	T	15.41 g	1 mL		1 mL		
680-87318-A-28	CV0005T-CS	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-87318-A-29	CV0005T-CSD	3546, 8270C LL	T	15.24 g	1 mL		1 mL		
680-87318-A-30	CV0005U-CS	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-87318-A-31	CV0005U-CSD	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-87318-A-32	CV0005V-CS	3546, 8270C LL	T	15.46 g	1 mL		1 mL		
680-87318-A-33	CV0005W-CS	3546, 8270C LL	T	15.38 g	1 mL		1 mL		
680-87318-A-34	CV0005X-CS	3546, 8270C LL	T	15.25 g	1 mL		1 mL		
680-87318-A-35	CV0005X-CSD	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-87318-A-36	CV0005Y-CS	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-87318-A-36 MS	CV0005Y-CS	3546, 8270C LL	T	15.06 g	1 mL	1 mL	1 mL		
680-87318-A-36 MSD	CV0005Y-CS	3546, 8270C LL	T	15.23 g	1 mL	1 mL	1 mL		
680-87318-A-37	CV0005Z-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-87318-A-38	CV0005Z-CSD	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-87318-A-39	CV0005AA-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		
680-87318-A-40	CV0005BB-CS	3546, 8270C LL	T	15.25 g	1 mL		1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Batch Number: 134486 Batch Start Date: 02/14/13 14:34 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/15/13 12:10

Batch Notes	
Acetone Lot #	EX ACETON BOT _50
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	AG
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	ex mc cycl _52
MeCl2/Acetone Lot #	ex-dcm/acton _17
Microwave Start Time	16.55/2/14/13
Microwave Stop Time	17.30/2/14/13
Na2SO4 Lot Number	ex-na2s04a_62
Ottawa Sand Lot #	OTTAW SAND _10
Person's name who did the prep	SAUREL
SOP Number	T P EX014
Person who witnessed spiking	SELF
Surrogate Lot Number	EX LLSURINT _174
Water Bath ID	TURBOVAP2#1/2/.3
Water Bath Temperature	40 C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87318-2

SDG No.: 68087318-2

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0005O-CS	680-87318-21
CV0005O-CSD	680-87318-22
CV0005Q-CS	680-87318-23
CV0005P-CS	680-87318-24
CV0005R-CS	680-87318-25
CV0005R-CSD	680-87318-26
CV0005S-CS	680-87318-27
CV0005T-CS	680-87318-28
CV0005T-CSD	680-87318-29
CV0005U-CS	680-87318-30
CV0005U-CSD	680-87318-31
CV0005V-CS	680-87318-32
CV0005W-CS	680-87318-33
CV0005X-CS	680-87318-34
CV0005X-CSD	680-87318-35
CV0005Y-CS	680-87318-36
CV0005Z-CS	680-87318-37
CV0005Z-CSD	680-87318-38
CV0005AA-CS	680-87318-39
CV0005BB-CS	680-87318-40

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87318-2

SDG Number: 68087318-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87318-2

SDG Number: 68087318-2

Matrix: Solid Instrument ID: Moisture

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87318-2

SDG Number: 68087318-2

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: 680-87318-2

SDG Number: 68087318-2

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.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: Moisture Method: Moisture

Start Date: 02/12/2013 06:42 End Date: 02/12/2013 12:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134382/21	1	T	06:42	X																			
LCS 660-134382/1	1	T	06:44	X																			
ZZZZZZ			06:56																				
ZZZZZZ			07:01																				
ZZZZZZ			07:13																				
ZZZZZZ			07:24																				
ZZZZZZ			07:36																				
ZZZZZZ			07:54																				
ZZZZZZ			08:06																				
ZZZZZZ			08:13																				
ZZZZZZ			08:21																				
ZZZZZZ			08:22																				
ZZZZZZ			09:30																				
ZZZZZZ			09:35																				
ZZZZZZ			10:46																				
ZZZZZZ			11:08																				
ZZZZZZ			11:18																				
ZZZZZZ			11:32																				
ZZZZZZ			11:35																				
680-87318-23	1	T	12:11	X																			
680-87318-29	1	T	12:11	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: Moisture Method: Moisture

Start Date: 02/12/2013 12:21 End Date: 02/12/2013 14:12

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134398/11	1	T	12:21	X																			
LCS 660-134398/1	1	T	12:24	X																			
ZZZZZZ			12:54																				
680-87318-28	1	T	12:59	X																			
680-87318-31	1	T	13:16	X																			
680-87318-30	1	T	13:16	X																			
680-87318-33	1	T	13:39	X																			
680-87318-34	1	T	13:39	X																			
680-87318-35	1	T	13:55	X																			
680-87318-32	1	T	14:01	X																			
680-87318-38	1	T	14:12	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: Moisture Method: Moisture

Start Date: 02/14/2013 06:36 End Date: 02/14/2013 11:57

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCSD 660-134478/22	1	T	06:36	X																			
LCS 660-134478/1	1	T	06:37	X																			
ZZZZZZ			07:18																				
ZZZZZZ			07:30																				
ZZZZZZ			08:11																				
ZZZZZZ			08:18																				
ZZZZZZ			08:49																				
ZZZZZZ			09:10																				
680-87318-25	1	T	09:12	X																			
680-87318-26	1	T	09:38	X																			
680-87318-27	1	T	09:49	X																			
680-87318-36	1	T	10:06	X																			
680-87318-36 MS	1	T	10:11	X																			
680-87318-36 MSD	1	T	10:31	X																			
ZZZZZZ			10:38																				
ZZZZZZ			10:58																				
ZZZZZZ			11:01																				
ZZZZZZ			11:32																				
ZZZZZZ			11:34																				
ZZZZZZ			11:49																				
ZZZZZZ			11:51																				
ZZZZZZ			11:57																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/12/2013 14:01 End Date: 02/12/2013 14:01

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCS 660-134397/1	1	T	14:01	X																			
680-87318-37	1	T	14:01	X																			
ZZZZZZ			14:01																				
ZZZZZZ			14:01																				
ZZZZZZ			14:01																				
ZZZZZZ			14:01																				
680-87318-39	1	T	14:01	X																			
680-87318-40	1	T	14:01	X																			
ZZZZZZ			14:01																				
ZZZZZZ			14:01																				
ZZZZZZ			14:01																				
ZZZZZZ			14:01																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/13/2013 14:25 End Date: 02/13/2013 14:25

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCS 660-134442/1	1	T	14:25	X																			
ZZZZZZ			14:25																				
ZZZZZZ			14:25																				
ZZZZZZ			14:25																				
ZZZZZZ			14:25																				
ZZZZZZ			14:25																				
ZZZZZZ			14:25																				
680-87318-21	1	T	14:25	X																			
680-87318-22	1	T	14:25	X																			
680-87318-24	1	T	14:25	X																			

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Batch Number: 134382 Batch Start Date: 02/12/13 06:42 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134382/1		Moisture		0 g	10.014 g	9.03 g			
680-87318-A-23	CV0005Q-CS	Moisture	T	0 g	4.712 g	3.575 g			
680-87318-A-29	CV0005T-CSD	Moisture	T	0 g	4.376 g	3.245 g			
LCSD 660-134382/21		Moisture		0 g	10.014 g	9.018 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Batch Number: 134397 Batch Start Date: 02/12/13 14:01 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
LCS 660-134397/1		Moisture		1	0 g	9.28 g	9.28 g		
680-87318-A-37	CV0005Z-CS	Moisture	T	2	0 g	4.62 g	4.39 g		
680-87318-A-39	CV0005AA-CS	Moisture	T	7	0 g	5.34 g	4.97 g		
680-87318-A-40	CV0005BB-CS	Moisture	T	8	0 g	4.16 g	4.06 g		

Batch Notes	
Balance ID	1 No Unit
Date samples were placed in the oven	2.12.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Batch Number: 134398 Batch Start Date: 02/12/13 12:21 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134398/1		Moisture		0 g	10.025 g	9.009 g			
680-87318-A-30	CV0005U-CS	Moisture	T	0 g	4.178 g	3.124 g			
680-87318-A-33	CV0005W-CS	Moisture	T	0 g	4.517 g	3.747 g			
680-87318-A-35	CV0005X-CSD	Moisture	T	0 g	4.28 g	3.287 g			
680-87318-A-38	CV0005Z-CSD	Moisture	T	0 g	4.341 g	3.229 g			
680-87318-A-32	CV0005V-CS	Moisture	T	0 g	4.487 g	3.171 g			
680-87318-A-34	CV0005X-CS	Moisture	T	0 g	4.412 g	3.416 g			
680-87318-A-31	CV0005U-CSD	Moisture	T	0 g	4.497 g	3.419 g			
680-87318-A-28	CV0005T-CS	Moisture	T	0 g	4.641 g	3.479 g			
LCSD 660-134398/11		Moisture		0 g	10.036 g	9.012 g			

Batch Notes	
Oven ID	HB43-1, HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Batch Number: 134442 Batch Start Date: 02/13/13 14:25 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
LCS 660-134442/1		Moisture		20	0 g	9.15 g	9.17 g		
680-87318-A-21	CV0005O-CS	Moisture	T	28	0 g	4.67 g	4.42 g		
680-87318-A-22	CV0005O-CSD	Moisture	T	29	0 g	4.39 g	4.00 g		
680-87318-A-24	CV0005P-CS	Moisture	T	30	0 g	4.64 g	4.51 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.13.13

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87318-2

SDG No.: 68087318-2

Batch Number: 134478 Batch Start Date: 02/14/13 06:36 Batch Analyst: Galio, Andrew

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
LCS 660-134478/1		Moisture		0 g	10.057 g	9.023 g			
680-87318-A-25	CV0005R-CS	Moisture	T	0 g	4.304 g	3.194 g			
680-87318-A-27	CV0005S-CS	Moisture	T	0 g	4.476 g	3.245 g			
680-87318-A-36 MS	CV0005Y-CS	Moisture	T	0 g	4.673 g	3.329 g			
680-87318-A-36 MSD	CV0005Y-CS	Moisture	T	0 g	4.292 g	3.029 g			
680-87318-A-36	CV0005Y-CS	Moisture	T	0 g	4.605 g	3.258 g			
680-87318-A-26	CV0005R-CSD	Moisture	T	0 g	4.215 g	3.2 g			
LCSD 660-134478/22		Moisture		0 g	10.048 g	9.029 g			

Batch Notes	
Oven ID	HB43-1,HB43-2

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Serial Number 59522

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER: Lisa Haney	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 678555550	CLIENT FAX:
CLIENT NAME: ONE	CLIENT E-MAIL: Lkrobe@one.com	
CLIENT ADDRESS:		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 2 OF 5

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LUPAH, TCLSVOC, RCRA8

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LUPAH	TCLSVOC	RCRA8							REMARKS
2/7/13	1153	CU0005I-CS	C		✓			X		X							
	1150	CU0005J-CS	C		✓			X									
	1152	CU0005J-CSD	C		✓			X									
	1155	CU0005K-CS	C		✓			X									
	1154	CU0005L-CS	C		✓			X	X								
	1156	CU0005M-CS	C		✓			X									
	1158	CU0005M-CSD	C		✓			X									
	1203	CU0005N-CS	C		✓			X									
	1345	CU0005O-CS	C		✓			X									
	1347	CU0005O-CSD	C		✓			X									
	1357	CU0005Q-CS	C		✓			X									
	1352	CU0005P-CS	C		✓			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/8/13	1800						
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/09/13	0934	YES ○ NO ○		680 87318	2-2°C / 2-8°C

TAL8240-680 (1008)

Serial Number 59523

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 20051413-1356	PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 678 355 5550	CLIENT FAX:
CLIENT NAME: OTIE	CLIENT E-MAIL: LKrebs@otie.com	
CLIENT ADDRESS:		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 3 OF 9

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH	TCLP SVOC	RCRA 8								REMARKS
								PRESERVATIVE										
7/13	1411	CV0005R-CS	C		✓			X										
	1413	CV0005R-CSD	C		✓			X										
	1410	CV0005S-CS	C		✓			X										
	1423	CV0005T-CS	C		✓			X										
	1425	CV0005T-CSD	C		✓			X										
	1432	CV0005U-CS	C		✓			X										
	1434	CV0005U-CSD	C		✓			X										
	1434	CV0005V-CS	C		✓			X	X									
	1441	CV0005W-CS	C		✓			X										
	1500	CV0005X-CS	C		✓			X										
	1502	CV0005X-CSD	C		✓			X										
	1500	CV0005Y-CS	C		✓			X		X								

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
L Krebs	7/18/13	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	07/19/13	0934	YES ○ NO ○		680 87318	2.2°C / 2.8°C

TAL8240-680 (1008)

Serial Number 59524

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE: 35th Ave Removal	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE: 678-355-5580	CLIENT FAX:
CLIENT NAME: ONE	CLIENT E-MAIL: Lwebs@one.com.	
CLIENT ADDRESS:		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 4 OF 5

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LUBAN, BCOD8

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LUBAN	BCOD8	REMARKS
1/7/13	1510	CU00057-CS	C		✓			X		
	1512	CU00057-CSD	C		✓			X		
	1535	CU00005AA-CS	C		✓			X	X	
	1536	CU00005BB-CS	C		✓			X		
	1538	CU00005 BB-CSD	C		✓			X		
	1501	CU00005AC-GS	G		✓			X		
2/8/13	0850	CU00008A-CS	C		✓			X		
	0902	CU00008B-CSD	C		✓			X		
	0900	CU00008B-CS*	C		✓			X		
	0900	CU00008C-CS	C		✓			X		
	0908	CU00008D-CS	C		✓			X		
	0917	CU00008E-CS	C		✓			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/8/13	1800						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/09/13	0934	YES ○ NO ○		680-57318	2.2°C / 2.8°C

TAL8240-680 (1008)

02/20/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-2
SDG Number: 68087318-2

Login Number: 87318
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-2
SDG Number: 68087318-2

Login Number: 87318
List Number: 1
Creator: McNulty, Carol

List Source: TestAmerica Tampa
List Creation: 02/12/13 09:59 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87318-2
SDG Number: 68087318-2

Login Number: 87318
List Number: 2
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 02/13/13 09:57 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have 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	