TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 680-87496-3

SDG Number: 68087496-3

Job Description: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, GA 30060

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
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2/26/2013 4:44 PM

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02/26/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87496-3

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

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

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

RECEIPT

The samples were received on 02/15/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.2º C and 5.8º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0971VV-CS (680-87496-41), CV0971VV-CSD (680-87496-42), CV0971WW-CS (680-87496-43), CV0971XX-CS (680-87496-44), CV0971YY-CS (680-87496-45), CV0971ZZ-CS (680-87496-46), CV0971AAA-CS (680-87496-47), CV0971BBB-CS (680-87496-48), FM0160A-CS (680-87496-49), FM0160B-CS (680-87496-50), FM0160C-CS (680-87496-51), FM0160C-CSD (680-87496-52), FM0160D-CS (680-87496-53), FM0160E-CS (680-87496-54), FM0160F-CS (680-87496-55), FM0160F-CSD (680-87496-56), FM0160G-CS (680-87496-57), FM0160H-CS (680-87496-58), FM0160I-CS (680-87496-59) and FM0160J-CS (680-87496-60) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/20/2013 and analyzed on 02/21/2013, 02/22/2013 and 02/25/2013.

Samples CV0971VV-CS (680-87496-41)[4X], CV0971YY-CS (680-87496-45)[4X], CV0971ZZ-CS (680-87496-46)[4X], CV0971AAA-CS (680-87496-47)[4X] and CV0971BBB-CS (680-87496-48)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Several analytes recovered outside the recovery criteria for the MS of sample CV0971BBB-CS (680-87496-48) in batch 660-134722.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-87496-28 in batch 660-134719. Several analytes also exceeded the rpd limit for the MS/MSD in batch 660-134719.

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: 680-87496-3
Sdg Number: 68087496-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87496-41	CV0971VV-CS	Solid	02/13/2013 1345	02/15/2013 0942
680-87496-42	CV0971VV-CSD	Solid	02/13/2013 1348	02/15/2013 0942
680-87496-43	CV0971WW-CS	Solid	02/13/2013 1407	02/15/2013 0942
680-87496-44	CV0971XX-CS	Solid	02/13/2013 1410	02/15/2013 0942
680-87496-45	CV0971YY-CS	Solid	02/13/2013 1415	02/15/2013 0942
680-87496-46	CV0971ZZ-CS	Solid	02/13/2013 1430	02/15/2013 0942
680-87496-47	CV0971AAA-CS	Solid	02/13/2013 1433	02/15/2013 0942
680-87496-48	CV0971BBB-CS	Solid	02/13/2013 1440	02/15/2013 0942
680-87496-48MS	CV0971BBB-CS	Solid	02/13/2013 1440	02/15/2013 0942
680-87496-48MSD	CV0971BBB-CS	Solid	02/13/2013 1440	02/15/2013 0942
680-87496-49	FM0160A-CS	Solid	02/13/2013 1517	02/15/2013 0942
680-87496-50	FM0160B-CS	Solid	02/13/2013 1522	02/15/2013 0942
680-87496-51	FM0160C-CS	Solid	02/13/2013 1528	02/15/2013 0942
680-87496-52	FM0160C-CSD	Solid	02/13/2013 1530	02/15/2013 0942
680-87496-53	FM0160D-CS	Solid	02/13/2013 1535	02/15/2013 0942
680-87496-54	FM0160E-CS	Solid	02/13/2013 1538	02/15/2013 0942
680-87496-55	FM0160F-CS	Solid	02/13/2013 1545	02/15/2013 0942
680-87496-56	FM0160F-CSD	Solid	02/13/2013 1548	02/15/2013 0942
680-87496-57	FM0160G-CS	Solid	02/13/2013 1552	02/15/2013 0942
680-87496-58	FM0160H-CS	Solid	02/13/2013 1555	02/15/2013 0942
680-87496-59	FM0160I-CS	Solid	02/13/2013 1602	02/15/2013 0942
680-87496-60	FM0160J-CS	Solid	02/13/2013 1603	02/15/2013 0942

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-3
Sdg Number: 68087496-3

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-3
Sdg Number: 68087496-3

Method	Analyst	Analyst ID
SW846 8270C LL	Cantin, Stephen C	SCC
EPA Moisture	Office, Trey	TO

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-3
Sdg Number: 68087496-3

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: 680-87496-3
Sdg Number: 68087496-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134668					
LCS 660-134668/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134668/1-A	Method Blank	T	Solid	3546	
680-87496-A-28-B MS	Matrix Spike	T	Solid	3546	
680-87496-A-28-C MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87496-41	CV0971VV-CS	T	Solid	3546	
680-87496-42	CV0971VV-CSD	T	Solid	3546	
680-87496-43	CV0971WW-CS	T	Solid	3546	
680-87496-44	CV0971XX-CS	T	Solid	3546	
Prep Batch: 660-134677					
LCS 660-134677/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134677/1-A	Method Blank	T	Solid	3546	
680-87496-45	CV0971YY-CS	T	Solid	3546	
680-87496-46	CV0971ZZ-CS	T	Solid	3546	
680-87496-47	CV0971AAA-CS	T	Solid	3546	
680-87496-48	CV0971BBB-CS	T	Solid	3546	
680-87496-48MS	Matrix Spike	T	Solid	3546	
680-87496-48MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87496-49	FM0160A-CS	T	Solid	3546	
680-87496-50	FM0160B-CS	T	Solid	3546	
680-87496-51	FM0160C-CS	T	Solid	3546	
680-87496-52	FM0160C-CSD	T	Solid	3546	
680-87496-53	FM0160D-CS	T	Solid	3546	
680-87496-54	FM0160E-CS	T	Solid	3546	
680-87496-55	FM0160F-CS	T	Solid	3546	
680-87496-56	FM0160F-CSD	T	Solid	3546	
680-87496-57	FM0160G-CS	T	Solid	3546	
680-87496-58	FM0160H-CS	T	Solid	3546	
680-87496-59	FM0160I-CS	T	Solid	3546	
680-87496-60	FM0160J-CS	T	Solid	3546	
Analysis Batch:660-134719					
LCS 660-134668/2-A	Lab Control Sample	T	Solid	8270C LL	660-134668
MB 660-134668/1-A	Method Blank	T	Solid	8270C LL	660-134668
680-87496-A-28-B MS	Matrix Spike	T	Solid	8270C LL	660-134668
680-87496-A-28-C MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134668
680-87496-41	CV0971VV-CS	T	Solid	8270C LL	660-134668
680-87496-42	CV0971VV-CSD	T	Solid	8270C LL	660-134668
680-87496-43	CV0971WW-CS	T	Solid	8270C LL	660-134668
680-87496-44	CV0971XX-CS	T	Solid	8270C LL	660-134668

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-3
Sdg Number: 68087496-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-134722					
LCS 660-134677/2-A	Lab Control Sample	T	Solid	8270C LL	660-134677
MB 660-134677/1-A	Method Blank	T	Solid	8270C LL	660-134677
680-87496-45	CV0971YY-CS	T	Solid	8270C LL	660-134677
680-87496-47	CV0971AAA-CS	T	Solid	8270C LL	660-134677
680-87496-48	CV0971BBB-CS	T	Solid	8270C LL	660-134677
680-87496-48MS	Matrix Spike	T	Solid	8270C LL	660-134677
680-87496-48MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134677
680-87496-49	FM0160A-CS	T	Solid	8270C LL	660-134677
680-87496-50	FM0160B-CS	T	Solid	8270C LL	660-134677
680-87496-51	FM0160C-CS	T	Solid	8270C LL	660-134677
Analysis Batch:660-134771					
680-87496-52	FM0160C-CSD	T	Solid	8270C LL	660-134677
680-87496-53	FM0160D-CS	T	Solid	8270C LL	660-134677
680-87496-54	FM0160E-CS	T	Solid	8270C LL	660-134677
680-87496-55	FM0160F-CS	T	Solid	8270C LL	660-134677
680-87496-56	FM0160F-CSD	T	Solid	8270C LL	660-134677
680-87496-57	FM0160G-CS	T	Solid	8270C LL	660-134677
680-87496-58	FM0160H-CS	T	Solid	8270C LL	660-134677
680-87496-59	FM0160I-CS	T	Solid	8270C LL	660-134677
680-87496-60	FM0160J-CS	T	Solid	8270C LL	660-134677
Analysis Batch:660-134820					
680-87496-46	CV0971ZZ-CS	T	Solid	8270C LL	660-134677

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-3
Sdg Number: 68087496-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:660-134573					
MB 660-134573/1	Method Blank	T	Solid	Moisture	
680-87496-41	CV0971VV-CS	T	Solid	Moisture	
680-87496-42	CV0971VV-CSD	T	Solid	Moisture	
680-87496-43	CV0971WW-CS	T	Solid	Moisture	
680-87496-44	CV0971XX-CS	T	Solid	Moisture	
680-87496-45	CV0971YY-CS	T	Solid	Moisture	
680-87496-46	CV0971ZZ-CS	T	Solid	Moisture	
680-87496-47	CV0971AAA-CS	T	Solid	Moisture	
680-87496-48	CV0971BBB-CS	T	Solid	Moisture	
680-87496-49	FM0160A-CS	T	Solid	Moisture	
680-87496-50	FM0160B-CS	T	Solid	Moisture	
Analysis Batch:660-134581					
MB 660-134581/1	Method Blank	T	Solid	Moisture	
680-87496-51	FM0160C-CS	T	Solid	Moisture	
680-87496-52	FM0160C-CSD	T	Solid	Moisture	
680-87496-53	FM0160D-CS	T	Solid	Moisture	
680-87496-54	FM0160E-CS	T	Solid	Moisture	
680-87496-55	FM0160F-CS	T	Solid	Moisture	
680-87496-56	FM0160F-CSD	T	Solid	Moisture	
680-87496-57	FM0160G-CS	T	Solid	Moisture	
680-87496-58	FM0160H-CS	T	Solid	Moisture	
680-87496-59	FM0160I-CS	T	Solid	Moisture	
680-87496-60	FM0160J-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: IC 660-134771/3 Client Sample ID:

Date Analyzed: 02/22/13 11:01 Lab File ID: 1AB22003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.18	Split Peak	cantins	02/22/13 12:53

Lab Sample ID: IC 660-134771/4 Client Sample ID:

Date Analyzed: 02/22/13 11:16 Lab File ID: 1AB22004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/22/13 12:54

Lab Sample ID: IC 660-134771/5 Client Sample ID:

Date Analyzed: 02/22/13 11:31 Lab File ID: 1AB22005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/22/13 12:54

Lab Sample ID: IC 660-134771/6 Client Sample ID:

Date Analyzed: 02/22/13 11:47 Lab File ID: 1AB22006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.17	Split Peak	cantins	02/22/13 12:54

Lab Sample ID: ICIS 660-134771/7 Client Sample ID:

Date Analyzed: 02/22/13 12:02 Lab File ID: 1AB22007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.18	Split Peak	cantins	02/22/13 12:51

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: IC 660-134771/8 Client Sample ID:

Date Analyzed: 02/22/13 12:17 Lab File ID: 1AB22008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.19	Split Peak	cantins	02/22/13 12:55

Lab Sample ID: IC 660-134771/9 Client Sample ID:

Date Analyzed: 02/22/13 12:32 Lab File ID: 1AB22009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.20	Split Peak	cantins	02/22/13 12:56

Lab Sample ID: ICV 660-134771/10 Client Sample ID:

Date Analyzed: 02/22/13 12:48 Lab File ID: 1AB22010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	4.55	Baseline Event	cantins	02/22/13 13:04
Indeno[1,2,3-cd]pyrene	8.19	Split Peak	cantins	02/22/13 13:02

Lab Sample ID: 680-87496-52 Client Sample ID: FM0160C-CSD

Date Analyzed: 02/22/13 13:23 Lab File ID: 1AB22012.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.18	Split Peak	cantins	02/25/13 11:15
Benzo[k]fluoranthene	7.19	Baseline Event	cantins	02/25/13 11:15
Indeno[1,2,3-cd]pyrene	8.18	Split Peak	cantins	02/25/13 11:16

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: 680-87496-53 Client Sample ID: FM0160D-CS

Date Analyzed: 02/22/13 13:38 Lab File ID: 1AB22013.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.18	Split Peak	cantins	02/25/13 11:16
Benzo[k]fluoranthene	7.19	Baseline Event	cantins	02/25/13 11:17
Indeno[1,2,3-cd]pyrene	8.18	Split Peak	cantins	02/25/13 11:17
Dibenz(a,h)anthracene	8.19	Baseline Event	cantins	02/25/13 11:17

Lab Sample ID: 680-87496-54 Client Sample ID: FM0160E-CS

Date Analyzed: 02/22/13 13:53 Lab File ID: 1AB22014.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.19	Split Peak	cantins	02/25/13 11:18
Benzo[k]fluoranthene	7.20	Baseline Event	cantins	02/25/13 11:18
Indeno[1,2,3-cd]pyrene	8.19	Split Peak	cantins	02/25/13 11:19

Lab Sample ID: 680-87496-55 Client Sample ID: FM0160F-CS

Date Analyzed: 02/22/13 14:08 Lab File ID: 1AB22015.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.18	Split Peak	cantins	02/25/13 11:19
Benzo[k]fluoranthene	7.19	Baseline Event	cantins	02/25/13 11:20
Indeno[1,2,3-cd]pyrene	8.18	Split Peak	cantins	02/25/13 11:20

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: 680-87496-56 Client Sample ID: FM0160F-CSD

Date Analyzed: 02/22/13 14:24 Lab File ID: 1AB22016.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.19	Split Peak	cantins	02/25/13 11:23
Benzo[k]fluoranthene	7.20	Baseline Event	cantins	02/25/13 11:24
Indeno[1,2,3-cd]pyrene	8.19	Split Peak	cantins	02/25/13 11:24
Benzo[g,h,i]perylene	8.40	Baseline Event	cantins	02/25/13 11:24

Lab Sample ID: 680-87496-57 Client Sample ID: FM0160G-CS

Date Analyzed: 02/22/13 14:39 Lab File ID: 1AB22017.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.18	Split Peak	cantins	02/25/13 11:25
Benzo[k]fluoranthene	7.19	Baseline Event	cantins	02/25/13 11:25
Indeno[1,2,3-cd]pyrene	8.19	Split Peak	cantins	02/25/13 11:26

Lab Sample ID: 680-87496-58 Client Sample ID: FM0160H-CS

Date Analyzed: 02/22/13 14:54 Lab File ID: 1AB22018.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.21	Split Peak	cantins	02/25/13 11:27
Benzo[k]fluoranthene	7.23	Baseline Event	cantins	02/25/13 11:27
Indeno[1,2,3-cd]pyrene	8.23	Split Peak	cantins	02/25/13 11:28

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMA5973 Analysis Batch Number: 134771

Lab Sample ID: 680-87496-59 Client Sample ID: FM0160I-CS

Date Analyzed: 02/22/13 15:09 Lab File ID: 1AB22019.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.20	Split Peak	cantins	02/25/13 11:36
Benzo[k]fluoranthene	7.20	Baseline Event	cantins	02/25/13 11:36
Indeno[1,2,3-cd]pyrene	8.21	Split Peak	cantins	02/25/13 11:37

Lab Sample ID: 680-87496-60 Client Sample ID: FM0160J-CS

Date Analyzed: 02/22/13 15:24 Lab File ID: 1AB22020.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.19	Split Peak	cantins	02/25/13 11:38
Benzo[k]fluoranthene	7.21	Baseline Event	cantins	02/25/13 11:38
Indeno[1,2,3-cd]pyrene	8.20	Split Peak	cantins	02/25/13 11:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMA5973 Analysis Batch Number: 134820

Lab Sample ID: CCVIS 660-134820/6 Client Sample ID:

Date Analyzed: 02/25/13 14:59 Lab File ID: 1AB25006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	8.16	Split Peak	cantins	02/25/13 15:12

Lab Sample ID: 680-87496-46 Client Sample ID: CV0971ZZ-CS

Date Analyzed: 02/25/13 15:29 Lab File ID: 1AB25008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	7.16	Split Peak	cantins	02/25/13 17:01
Benzo[k]fluoranthene	7.17	Baseline Event	cantins	02/25/13 17:01
Indeno[1,2,3-cd]pyrene	8.16	Split Peak	cantins	02/25/13 17:01

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

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.: 680-87496-3

SDG No.: 68087496-3

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.: 680-87496-3

SDG No.: 68087496-3

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.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMC5973 Analysis Batch Number: 134719

Lab Sample ID: CCVIS 660-134719/3 Client Sample ID:

Date Analyzed: 02/21/13 11:47 Lab File ID: 1CB21003.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	02/21/13 12:02

Lab Sample ID: LCS 660-134668/2-A Client Sample ID:

Date Analyzed: 02/21/13 12:42 Lab File ID: 1CB21006.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	02/21/13 13:06

Lab Sample ID: 680-87496-A-28-B MS Client Sample ID:

Date Analyzed: 02/21/13 13:37 Lab File ID: 1CB21009.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	02/21/13 13:59

Lab Sample ID: 680-87496-A-28-C MSD Client Sample ID:

Date Analyzed: 02/21/13 13:56 Lab File ID: 1CB21010.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	02/21/13 14:13

Lab Sample ID: 680-87496-41 Client Sample ID: CV0971VV-CS

Date Analyzed: 02/21/13 18:31 Lab File ID: 1CB21025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	8.69	Analyte Misidentified by the Data System	cantins	02/22/13 10:18
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/22/13 10:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMC5973 Analysis Batch Number: 134719

Lab Sample ID: 680-87496-42 Client Sample ID: CV0971VV-CSD

Date Analyzed: 02/21/13 18:49 Lab File ID: 1CB21026.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	02/22/13 10:19
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/22/13 10:19
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/22/13 10:20

Lab Sample ID: 680-87496-43 Client Sample ID: CV0971WW-CS

Date Analyzed: 02/21/13 19:08 Lab File ID: 1CB21027.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	02/22/13 11:11
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/22/13 11:11
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/22/13 11:11

Lab Sample ID: 680-87496-44 Client Sample ID: CV0971XX-CS

Date Analyzed: 02/21/13 19:26 Lab File ID: 1CB21028.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	02/22/13 11:11
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/22/13 11:12
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/22/13 11:12

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMD5973 Analysis Batch Number: 133192

Lab Sample ID: IC 660-133192/3 Client Sample ID:

Date Analyzed: 01/07/13 10:43 Lab File ID: 1DA07003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	12.89	Baseline Event	cantins	01/07/13 13:45
Indeno[1,2,3-cd]pyrene	15.05	Split Peak	cantins	01/07/13 13:44
Dibenz(a,h)anthracene	15.09	Baseline Event	cantins	01/07/13 13:43
Benzo[g,h,i]perylene	15.51	Baseline Event	cantins	01/07/13 13:43

Lab Sample ID: IC 660-133192/4 Client Sample ID:

Date Analyzed: 01/07/13 11:05 Lab File ID: 1DA07004.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.05	Split Peak	cantins	01/07/13 13:45
Dibenz(a,h)anthracene	15.08	Baseline Event	cantins	01/07/13 13:45
Benzo[g,h,i]perylene	15.50	Baseline Event	cantins	01/07/13 13:45

Lab Sample ID: IC 660-133192/5 Client Sample ID:

Date Analyzed: 01/07/13 11:28 Lab File ID: 1DA07005.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.05	Split Peak	cantins	01/07/13 13:46
Dibenz(a,h)anthracene	15.08	Baseline Event	cantins	01/07/13 13:47
Benzo[g,h,i]perylene	15.51	Baseline Event	cantins	01/07/13 13:46

Lab Sample ID: IC 660-133192/6 Client Sample ID:

Date Analyzed: 01/07/13 11:50 Lab File ID: 1DA07006.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.05	Split Peak	cantins	01/07/13 13:47

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMD5973 Analysis Batch Number: 133192

Lab Sample ID: IC 660-133192/9 Client Sample ID:

Date Analyzed: 01/07/13 12:58 Lab File ID: 1DA07009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.09	Split Peak	cantins	01/07/13 13:48

Lab Sample ID: ICV 660-133192/10 Client Sample ID:

Date Analyzed: 01/07/13 13:20 Lab File ID: 1DA07010.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbazole	9.36	Baseline Event	cantins	01/07/13 13:54

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMD5973 Analysis Batch Number: 134722

Lab Sample ID: 680-87496-45 Client Sample ID: CV0971YY-CS

Date Analyzed: 02/21/13 20:14 Lab File ID: 1DB21025.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.96	Split Peak	cantins	02/25/13 10:23
Benzo[g,h,i]perylene	15.42	Baseline Event	cantins	02/25/13 10:23

Lab Sample ID: 680-87496-47 Client Sample ID: CV0971AAA-CS

Date Analyzed: 02/21/13 20:59 Lab File ID: 1DB21027.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.97	Split Peak	cantins	02/25/13 10:24
Benzo[g,h,i]perylene	15.43	Baseline Event	cantins	02/25/13 10:24

Lab Sample ID: 680-87496-48 Client Sample ID: CV0971BBB-CS

Date Analyzed: 02/21/13 21:21 Lab File ID: 1DB21028.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.96	Split Peak	cantins	02/25/13 10:25

Lab Sample ID: 680-87496-48 MS Client Sample ID: CV0971BBB-CS MS

Date Analyzed: 02/21/13 21:44 Lab File ID: 1DB21029.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.97	Split Peak	cantins	02/25/13 10:26

Lab Sample ID: 680-87496-48 MSD Client Sample ID: CV0971BBB-CS MSD

Date Analyzed: 02/21/13 22:06 Lab File ID: 1DB21030.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.97	Split Peak	cantins	02/25/13 10:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMD5973 Analysis Batch Number: 134722

Lab Sample ID: 680-87496-49 Client Sample ID: FM0160A-CS

Date Analyzed: 02/21/13 22:29 Lab File ID: 1DB21031.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.96	Split Peak	cantins	02/25/13 10:28

Lab Sample ID: 680-87496-50 Client Sample ID: FM0160B-CS

Date Analyzed: 02/21/13 22:52 Lab File ID: 1DB21032.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.97	Split Peak	cantins	02/25/13 10:28

Lab Sample ID: 680-87496-51 Client Sample ID: FM0160C-CS

Date Analyzed: 02/21/13 23:14 Lab File ID: 1DB21033.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	14.96	Split Peak	cantins	02/25/13 10:29

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.: 680-87496-3

SDG No.: 68087496-3

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0971VV-CS	680-87496-41	100
CV0971VV-CSD	680-87496-42	98
CV0971WW-CS	680-87496-43	78
CV0971XX-CS	680-87496-44	95
CV0971YY-CS	680-87496-45	109
CV0971ZZ-CS	680-87496-46	94
CV0971AAA-CS	680-87496-47	106
CV0971BBB-CS	680-87496-48	97
FM0160A-CS	680-87496-49	95
FM0160B-CS	680-87496-50	91
FM0160C-CS	680-87496-51	86
FM0160C-CSD	680-87496-52	85
FM0160D-CS	680-87496-53	78
FM0160E-CS	680-87496-54	75
FM0160F-CS	680-87496-55	77
FM0160F-CSD	680-87496-56	74
FM0160G-CS	680-87496-57	69
FM0160H-CS	680-87496-58	77
FM0160I-CS	680-87496-59	64
FM0160J-CS	680-87496-60	69
	MB 660-134668/1-A	100
	MB 660-134677/1-A	90
	LCS 660-134668/2-A	98
	LCS 660-134677/2-A	100
	680-87496-A-28-B MS	98
CV0971BBB-CS MS	680-87496-48 MS	108
	680-87496-A-28-C MSD	93
CV0971BBB-CS MSD	680-87496-48 MSD	105

	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.: 680-87496-3

SDG No.: 68087496-3

Matrix: Solid Level: Low Lab File ID: 1CB21006.D

Lab ID: LCS 660-134668/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	666	629	94	39-130	
Acenaphthylene	666	634	95	38-130	
Anthracene	666	617	93	37-130	
Benzo[a]anthracene	666	656	98	40-130	
Benzo[a]pyrene	666	646	97	49-130	
Benzo[b]fluoranthene	666	670	101	37-130	
Benzo[g,h,i]perylene	666	638	96	32-130	
Benzo[k]fluoranthene	666	622	93	32-130	
Chrysene	666	589	88	41-130	
Dibenz(a,h)anthracene	666	676	101	27-130	
Fluoranthene	666	686	103	40-130	
Fluorene	666	618	93	40-130	
Indeno[1,2,3-cd]pyrene	666	618	93	30-130	
1-Methylnaphthalene	666	655	98	31-130	
2-Methylnaphthalene	666	603	90	33-130	
Naphthalene	666	599	90	36-130	
Phenanthrene	666	565	85	42-130	
Pyrene	666	654	98	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.: 680-87496-3

SDG No.: 68087496-3

Matrix: Solid Level: Low Lab File ID: 1DB21024.D

Lab ID: LCS 660-134677/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	656	563	86	39-130	
Acenaphthylene	656	582	89	38-130	
Anthracene	656	544	83	37-130	
Benzo[a]anthracene	656	578	88	40-130	
Benzo[a]pyrene	656	537	82	49-130	
Benzo[b]fluoranthene	656	654	100	37-130	
Benzo[g,h,i]perylene	656	430	66	32-130	
Benzo[k]fluoranthene	656	629	96	32-130	
Chrysene	656	569	87	41-130	
Dibenz(a,h)anthracene	656	542	83	27-130	
Fluoranthene	656	618	94	40-130	
Fluorene	656	588	90	40-130	
Indeno[1,2,3-cd]pyrene	656	465	71	30-130	
1-Methylnaphthalene	656	611	93	31-130	
2-Methylnaphthalene	656	596	91	33-130	
Naphthalene	656	563	86	36-130	
Phenanthrene	656	567	86	42-130	
Pyrene	656	584	89	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.: 680-87496-3

SDG No.: 68087496-3

Matrix: Solid Level: Low Lab File ID: 1CB21009.D

Lab ID: 680-87496-A-28-B MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	1090	160 U	1090	100	39-130	
Acenaphthylene	1090	53 J	1080	94	38-130	
Anthracene	1090	72	1270	110	37-130	
Benzo[a]anthracene	1090	420	2040	149	40-130	F
Benzo[a]pyrene	1090	450	2030	145	49-130	F
Benzo[b]fluoranthene	1090	720	2500	163	37-130	F
Benzo[g,h,i]perylene	1090	350	1670	120	32-130	
Benzo[k]fluoranthene	1090	210	1830	148	32-130	F
Chrysene	1090	490	1850	125	41-130	
Dibenz(a,h)anthracene	1090	90	1180	100	27-130	
Fluoranthene	1090	820	3340	231	40-130	F
Fluorene	1090	24 J	1020	91	40-130	
Indeno[1,2,3-cd]pyrene	1090	270	1640	125	30-130	
1-Methylnaphthalene	1090	96	1200	101	31-130	
2-Methylnaphthalene	1090	86	1090	92	33-130	
Naphthalene	1090	110	1080	89	36-130	
Phenanthrene	1090	340	2200	170	42-130	F
Pyrene	1090	700	2940	205	44-130	F

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.: 680-87496-3

SDG No.: 68087496-3

Matrix: Solid Level: Low Lab File ID: 1DB21029.D

Lab ID: 680-87496-48 MS Client ID: CV0971BBB-CS MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	709	430 U	659	93	39-130	
Acenaphthylene	709	42 J	715	95	38-130	
Anthracene	709	57	751	98	37-130	
Benzo[a]anthracene	709	200	1050	119	40-130	
Benzo[a]pyrene	709	210	1030	116	49-130	
Benzo[b]fluoranthene	709	400	1410	144	37-130	F
Benzo[g,h,i]perylene	709	110	572	65	32-130	
Benzo[k]fluoranthene	709	130	1060	131	32-130	F
Chrysene	709	250	1130	124	41-130	
Dibenz(a,h)anthracene	709	39 J	577	76	27-130	
Fluoranthene	709	350	1400	149	40-130	F
Fluorene	709	85 U	706	100	40-130	
Indeno[1,2,3-cd]pyrene	709	110	634	74	30-130	
1-Methylnaphthalene	709	100 J	739	90	31-130	
2-Methylnaphthalene	709	120 J	750	89	33-130	
Naphthalene	709	100 J	675	81	36-130	
Phenanthrene	709	210	977	108	42-130	
Pyrene	709	290	1260	137	44-130	F

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.: 680-87496-3

SDG No.: 68087496-3

Matrix: Solid Level: Low Lab File ID: 1CB21010.D

Lab ID: 680-87496-A-28-C MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	1090	963	88	13	40	39-130	
Acenaphthylene	1090	1040	90	5	40	38-130	
Anthracene	1090	1010	86	23	40	37-130	
Benzo[a]anthracene	1090	1300	80	45	40	40-130	F
Benzo[a]pyrene	1090	1310	79	43	40	49-130	F
Benzo[b]fluoranthene	1090	1560	77	46	40	37-130	F
Benzo[g,h,i]perylene	1090	1160	74	36	40	32-130	
Benzo[k]fluoranthene	1090	1100	81	50	40	32-130	F
Chrysene	1090	1190	65	43	40	41-130	F
Dibenz(a,h)anthracene	1090	1080	90	9	40	27-130	
Fluoranthene	1090	1490	62	76	40	40-130	F
Fluorene	1090	957	85	6	40	40-130	
Indeno[1,2,3-cd]pyrene	1090	1210	86	30	40	30-130	
1-Methylnaphthalene	1090	1170	99	2	40	31-130	
2-Methylnaphthalene	1090	1120	95	3	40	33-130	
Naphthalene	1090	1080	89	0	40	36-130	
Phenanthrene	1090	1180	77	60	40	42-130	F
Pyrene	1090	1510	74	64	40	44-130	F

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.: 680-87496-3

SDG No.: 68087496-3

Matrix: Solid Level: Low Lab File ID: 1DB21030.D

Lab ID: 680-87496-48 MSD Client ID: CV0971BBB-CS MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	709	655	92	1	40	39-130	
Acenaphthylene	709	685	91	4	40	38-130	
Anthracene	709	721	94	4	40	37-130	
Benzo[a]anthracene	709	885	96	17	40	40-130	
Benzo[a]pyrene	709	893	96	15	40	49-130	
Benzo[b]fluoranthene	709	1180	111	18	40	37-130	
Benzo[g,h,i]perylene	709	507	56	12	40	32-130	
Benzo[k]fluoranthene	709	938	114	12	40	32-130	
Chrysene	709	938	97	19	40	41-130	
Dibenz(a,h)anthracene	709	559	73	3	40	27-130	
Fluoranthene	709	1080	103	26	40	40-130	
Fluorene	709	674	95	5	40	40-130	
Indeno[1,2,3-cd]pyrene	709	566	64	11	40	30-130	
1-Methylnaphthalene	709	775	95	5	40	31-130	
2-Methylnaphthalene	709	757	90	1	40	33-130	
Naphthalene	709	688	83	2	40	36-130	
Phenanthrene	709	831	88	16	40	42-130	
Pyrene	709	984	97	25	40	44-130	

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.: 680-87496-3

SDG No.: 68087496-3

Lab File ID: 1CB21005.D Lab Sample ID: MB 660-134668/1-A

Matrix: Solid Date Extracted: 02/20/2013 13:23

Instrument ID: BSMC5973 Date Analyzed: 02/21/2013 12:24

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134668/2-A	1CB21006.D	02/21/2013 12:42
	680-87496-A-28-B MS	1CB21009.D	02/21/2013 13:37
	680-87496-A-28-C MSD	1CB21010.D	02/21/2013 13:56
CV0971VV-CS	680-87496-41	1CB21025.D	02/21/2013 18:31
CV0971VV-CSD	680-87496-42	1CB21026.D	02/21/2013 18:49
CV0971WW-CS	680-87496-43	1CB21027.D	02/21/2013 19:08
CV0971XX-CS	680-87496-44	1CB21028.D	02/21/2013 19:26

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Lab File ID: 1DB21023.D Lab Sample ID: MB 660-134677/1-A

Matrix: Solid Date Extracted: 02/20/2013 15:19

Instrument ID: BSMD5973 Date Analyzed: 02/21/2013 19:28

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134677/2-A	1DB21024.D	02/21/2013 19:51
CV0971YY-CS	680-87496-45	1DB21025.D	02/21/2013 20:14
CV0971AAA-CS	680-87496-47	1DB21027.D	02/21/2013 20:59
CV0971BBB-CS	680-87496-48	1DB21028.D	02/21/2013 21:21
CV0971BBB-CS MS	680-87496-48 MS	1DB21029.D	02/21/2013 21:44
CV0971BBB-CS MSD	680-87496-48 MSD	1DB21030.D	02/21/2013 22:06
FM0160A-CS	680-87496-49	1DB21031.D	02/21/2013 22:29
FM0160B-CS	680-87496-50	1DB21032.D	02/21/2013 22:52
FM0160C-CS	680-87496-51	1DB21033.D	02/21/2013 23:14
FM0160C-CSD	680-87496-52	1AB22012.D	02/22/2013 13:23
FM0160D-CS	680-87496-53	1AB22013.D	02/22/2013 13:38
FM0160E-CS	680-87496-54	1AB22014.D	02/22/2013 13:53
FM0160F-CS	680-87496-55	1AB22015.D	02/22/2013 14:08
FM0160F-CSD	680-87496-56	1AB22016.D	02/22/2013 14:24
FM0160G-CS	680-87496-57	1AB22017.D	02/22/2013 14:39
FM0160H-CS	680-87496-58	1AB22018.D	02/22/2013 14:54
FM0160I-CS	680-87496-59	1AB22019.D	02/22/2013 15:09
FM0160J-CS	680-87496-60	1AB22020.D	02/22/2013 15:24
CV0971ZZ-CS	680-87496-46	1AB25008.D	02/25/2013 15:29

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Lab File ID: 1AB22002.D DFTPP Injection Date: 02/22/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 10:42

Analysis Batch No.: 134771

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	63.5	
68	Less than 2.0 % of mass 69	0.9	(1.7)1
69	Mass 69 relative abundance	53.6	
70	Less than 2.0 % of mass 69	0.4	(0.8)1
127	10.0 - 80.0 % of mass 198	44.3	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.7	
275	10.0 - 60.0 % of mass 198	25.0	
365	Greater than 1.0 % of mass 198	3.2	
441	Present but less than mass 443	8.5	
442	Greater than 50.0 % of mass 198	67.6	
443	15.0 - 24.0 % of mass 442	10.7	(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
	IC 660-134771/3	1AB22003.D	02/22/2013	11:01
	IC 660-134771/4	1AB22004.D	02/22/2013	11:16
	IC 660-134771/5	1AB22005.D	02/22/2013	11:31
	IC 660-134771/6	1AB22006.D	02/22/2013	11:47
	ICIS 660-134771/7	1AB22007.D	02/22/2013	12:02
	IC 660-134771/8	1AB22008.D	02/22/2013	12:17
	IC 660-134771/9	1AB22009.D	02/22/2013	12:32
	ICV 660-134771/10	1AB22010.D	02/22/2013	12:48
FM0160C-CSD	680-87496-52	1AB22012.D	02/22/2013	13:23
FM0160D-CS	680-87496-53	1AB22013.D	02/22/2013	13:38
FM0160E-CS	680-87496-54	1AB22014.D	02/22/2013	13:53
FM0160F-CS	680-87496-55	1AB22015.D	02/22/2013	14:08
FM0160F-CSD	680-87496-56	1AB22016.D	02/22/2013	14:24
FM0160G-CS	680-87496-57	1AB22017.D	02/22/2013	14:39
FM0160H-CS	680-87496-58	1AB22018.D	02/22/2013	14:54
FM0160I-CS	680-87496-59	1AB22019.D	02/22/2013	15:09
FM0160J-CS	680-87496-60	1AB22020.D	02/22/2013	15:24

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Lab File ID: 1AB25005.D DFTPP Injection Date: 02/25/2013

Instrument ID: BSMA5973 DFTPP Injection Time: 14:44

Analysis Batch No.: 134820

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	55.1	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	52.3	
70	Less than 2.0 % of mass 69	0.5	(0.9)1
127	10.0 - 80.0 % of mass 198	49.4	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.7	
275	10.0 - 60.0 % of mass 198	27.6	
365	Greater than 1.0 % of mass 198	4.0	
441	Present but less than mass 443	10.1	
442	Greater than 50.0 % of mass 198	68.9	
443	15.0 - 24.0 % of mass 442	13.9	(20.2)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 660-134820/6	1AB25006.D	02/25/2013	14:59
CV0971ZZ-CS	680-87496-46	1AB25008.D	02/25/2013	15:29

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

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.: 680-87496-3

SDG No.: 68087496-3

Lab File ID: 1CB21002.D DFTPP Injection Date: 02/21/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 11:30

Analysis Batch No.: 134719

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	31.8	
68	Less than 2.0 % of mass 69	0.7	(1.7)1
69	Mass 69 relative abundance	40.6	
70	Less than 2.0 % of mass 69	0.1	(0.2)1
127	10.0 - 80.0 % of mass 198	42.3	
197	Less than 2.0 % of mass 198	0.8	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	5.9	
275	10.0 - 60.0 % of mass 198	22.5	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	14.1	
442	Greater than 50.0 % of mass 198	93.9	
443	15.0 - 24.0 % of mass 442	18.8	(20.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134719/3	1CB21003.D	02/21/2013	11:47
	MB 660-134668/1-A	1CB21005.D	02/21/2013	12:24
	LCS 660-134668/2-A	1CB21006.D	02/21/2013	12:42
	680-87496-A-28-B MS	1CB21009.D	02/21/2013	13:37
	680-87496-A-28-C MSD	1CB21010.D	02/21/2013	13:56
CV0971VV-CS	680-87496-41	1CB21025.D	02/21/2013	18:31
CV0971VV-CSD	680-87496-42	1CB21026.D	02/21/2013	18:49
CV0971WW-CS	680-87496-43	1CB21027.D	02/21/2013	19:08
CV0971XX-CS	680-87496-44	1CB21028.D	02/21/2013	19:26

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Lab File ID: 1DA07002.D DFTPP Injection Date: 01/07/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 09:59

Analysis Batch No.: 133192

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	44.2	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	46.8	
70	Less than 2.0 % of mass 69	0.0	(0.0)1
127	10.0 - 80.0 % of mass 198	50.7	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.5	
275	10.0 - 60.0 % of mass 198	25.1	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	2.1	
442	Greater than 50.0 % of mass 198	67.6	
443	15.0 - 24.0 % of mass 442	13.6	(20.1)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-133192/3	1DA07003.D	01/07/2013	10:43
	IC 660-133192/4	1DA07004.D	01/07/2013	11:05
	IC 660-133192/5	1DA07005.D	01/07/2013	11:28
	IC 660-133192/6	1DA07006.D	01/07/2013	11:50
	ICIS 660-133192/7	1DA07007.D	01/07/2013	12:13
	IC 660-133192/8	1DA07008.D	01/07/2013	12:36
	IC 660-133192/9	1DA07009.D	01/07/2013	12:58
	ICV 660-133192/10	1DA07010.D	01/07/2013	13:20

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Lab File ID: 1DB21002.D DFTPP Injection Date: 02/21/2013

Instrument ID: BSMD5973 DFTPP Injection Time: 11:40

Analysis Batch No.: 134722

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	48.2	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	49.7	
70	Less than 2.0 % of mass 69	0.3	(0.7)1
127	10.0 - 80.0 % of mass 198	52.8	
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	6.6	
275	10.0 - 60.0 % of mass 198	24.9	
365	Greater than 1.0 % of mass 198	2.5	
441	Present but less than mass 443	9.7	
442	Greater than 50.0 % of mass 198	61.1	
443	15.0 - 24.0 % of mass 442	11.7	(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
	CCVIS 660-134722/3	1DB21003.D	02/21/2013	11:57
	MB 660-134677/1-A	1DB21023.D	02/21/2013	19:28
	LCS 660-134677/2-A	1DB21024.D	02/21/2013	19:51
CV0971YY-CS	680-87496-45	1DB21025.D	02/21/2013	20:14
CV0971AAA-CS	680-87496-47	1DB21027.D	02/21/2013	20:59
CV0971BBB-CS	680-87496-48	1DB21028.D	02/21/2013	21:21
CV0971BBB-CS MS	680-87496-48 MS	1DB21029.D	02/21/2013	21:44
CV0971BBB-CS MSD	680-87496-48 MSD	1DB21030.D	02/21/2013	22:06
FM0160A-CS	680-87496-49	1DB21031.D	02/21/2013	22:29
FM0160B-CS	680-87496-50	1DB21032.D	02/21/2013	22:52
FM0160C-CS	680-87496-51	1DB21033.D	02/21/2013	23:14

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Sample No.: ICIS 660-134771/7 Date Analyzed: 02/22/2013 12:02

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

Lab File ID (Standard): 1AB22007.D Heated Purge: (Y/N) N

Calibration ID: 2759

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		991704	2.40	622858	3.42	968921	4.35
UPPER LIMIT		1983408	2.90	1245716	3.92	1937842	4.85
LOWER LIMIT		495852	1.90	311429	2.92	484461	3.85
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134771/10		1470215	2.40	948405	3.42	1446139	4.36
680-87496-52	FM0160C-CSD	1059345	2.39	787950	3.42	1111503	4.35
680-87496-53	FM0160D-CS	1098495	2.39	750181	3.42	1119189	4.36
680-87496-54	FM0160E-CS	965587	2.39	730508	3.42	1053981	4.36
680-87496-55	FM0160F-CS	1044761	2.40	782003	3.42	1146832	4.36
680-87496-56	FM0160F-CSD	1006536	2.40	746586	3.42	1074962	4.36
680-87496-57	FM0160G-CS	986249	2.40	772544	3.42	1084337	4.36
680-87496-58	FM0160H-CS	920823	2.40	714780	3.42	911727	4.36
680-87496-59	FM0160I-CS	928554	2.40	800085	3.42	997823	4.37
680-87496-60	FM0160J-CS	908419	2.40	729424	3.42	1049240	4.36

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.: 680-87496-3

SDG No.: 68087496-3

Sample No.: ICIS 660-134771/7 Date Analyzed: 02/22/2013 12:02

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

Lab File ID (Standard): 1AB22007.D Heated Purge: (Y/N) N

Calibration ID: 2759

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		842371	6.37	860097	7.46		
UPPER LIMIT		1684742	6.87	1720194	7.96		
LOWER LIMIT		421186	5.87	430049	6.96		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-134771/10		1373239	6.37	1363331	7.46		
680-87496-52	FM0160C-CSD	622730	6.37	623892	7.46		
680-87496-53	FM0160D-CS	625353	6.37	713536	7.46		
680-87496-54	FM0160E-CS	560800	6.37	718989	7.47		
680-87496-55	FM0160F-CS	639541	6.37	733759	7.47		
680-87496-56	FM0160F-CSD	584170	6.37	829838	7.47		
680-87496-57	FM0160G-CS	590454	6.38	769744	7.47		
680-87496-58	FM0160H-CS	821103	6.39	1298964	7.50		
680-87496-59	FM0160I-CS	649137	6.38	990872	7.48		
680-87496-60	FM0160J-CS	592032	6.38	858327	7.48		

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.: 680-87496-3

SDG No.: 68087496-3

Sample No.: CCVIS 660-134820/6 Date Analyzed: 02/25/2013 14:59

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

Lab File ID (Standard): 1AB25006.D Heated Purge: (Y/N) N

Calibration ID: 2759

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		843764	2.38	532930	3.40	749974	4.34
UPPER LIMIT		1687528	2.88	1065860	3.90	1499948	4.84
LOWER LIMIT		421882	1.88	266465	2.90	374987	3.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87496-46	CV0971ZZ-CS	590637	2.38	389635	3.40	593183	4.34

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.: 680-87496-3

SDG No.: 68087496-3

Sample No.: CCVIS 660-134820/6 Date Analyzed: 02/25/2013 14:59

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

Lab File ID (Standard): 1AB25006.D Heated Purge: (Y/N) N

Calibration ID: 2759

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		646044	6.35	653985	7.44		
UPPER LIMIT		1292088	6.85	1307970	7.94		
LOWER LIMIT		323022	5.85	326993	6.94		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87496-46	CV0971ZZ-CS	344365	6.35	423479	7.44		

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.: 680-87496-3

SDG No.: 68087496-3

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.: 680-87496-3

SDG No.: 68087496-3

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.: 680-87496-3

SDG No.: 68087496-3

Sample No.: CCVIS 660-134719/3 Date Analyzed: 02/21/2013 11:47

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

Lab File ID (Standard): 1CB21003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2244779	3.81	1725884	4.90	3414107	5.86
UPPER LIMIT		4489558	4.31	3451768	5.40	6828214	6.36
LOWER LIMIT		1122390	3.31	862942	4.40	1707054	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134668/1-A		1403372	3.81	1052948	4.90	2058614	5.86
LCS 660-134668/2-A		1435517	3.81	1139256	4.90	2227952	5.86
680-87496-A-28-B MS		1828675	3.81	1387822	4.90	2467610	5.86
680-87496-A-28-C MSD		1736451	3.81	1345891	4.90	2440815	5.86
680-87496-41	CV0971VV-CS	1817389	3.81	1380098	4.90	2406521	5.86
680-87496-42	CV0971VV-CSD	1675119	3.81	1292601	4.90	2361723	5.86
680-87496-43	CV0971WW-CS	1689567	3.81	1306505	4.90	2430001	5.86
680-87496-44	CV0971XX-CS	1824605	3.81	1371281	4.90	2459940	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.: 680-87496-3

SDG No.: 68087496-3

Sample No.: CCVIS 660-134719/3 Date Analyzed: 02/21/2013 11:47

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

Lab File ID (Standard): 1CB21003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4147916	7.81	4112157	9.04		
UPPER LIMIT		8295832	8.31	8224314	9.54		
LOWER LIMIT		2073958	7.31	2056079	8.54		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134668/1-A		2470657	7.81	2521551	9.03		
LCS 660-134668/2-A		2649640	7.81	2710208	9.03		
680-87496-A-28-B MS		2710073	7.81	2564136	9.03		
680-87496-A-28-C MSD		2644939	7.81	2517891	9.03		
680-87496-41	CV0971VV-CS	2507954	7.81	2294265	9.03		
680-87496-42	CV0971VV-CSD	2521072	7.81	2273602	9.03		
680-87496-43	CV0971WW-CS	2474074	7.81	2295512	9.03		
680-87496-44	CV0971XX-CS	2571895	7.81	2364255	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.: 680-87496-3

SDG No.: 68087496-3

Sample No.: ICIS 660-133192/7 Date Analyzed: 01/07/2013 12:13

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

Lab File ID (Standard): 1DA07007.D Heated Purge: (Y/N) N

Calibration ID: 2662

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2894220	6.23	1692196	7.90	2742443	9.16
UPPER LIMIT		5788440	6.73	3384392	8.40	5484886	9.66
LOWER LIMIT		1447110	5.73	846098	7.40	1371222	8.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133192/10		2887037	6.24	1699245	7.91	2845473	9.16

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.: 680-87496-3

SDG No.: 68087496-3

Sample No.: ICIS 660-133192/7 Date Analyzed: 01/07/2013 12:13

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

Lab File ID (Standard): 1DA07007.D Heated Purge: (Y/N) N

Calibration ID: 2662

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2671554	11.52	2767955	13.42		
UPPER LIMIT		5343108	12.02	5535910	13.92		
LOWER LIMIT		1335777	11.02	1383978	12.92		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 660-133192/10		2715172	11.53	2800784	13.42		

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.: 680-87496-3

SDG No.: 68087496-3

Sample No.: CCVIS 660-134722/3 Date Analyzed: 02/21/2013 11:57

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

Lab File ID (Standard): 1DB21003.D Heated Purge: (Y/N) N

Calibration ID: 2662

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4805924	6.20	2903448	7.86	4784360	9.13
UPPER LIMIT		9611848	6.70	5806896	8.36	9568720	9.63
LOWER LIMIT		2402962	5.70	1451724	7.36	2392180	8.63
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134677/1-A		3444102	6.19	2086349	7.86	3394356	9.12
LCS 660-134677/2-A		3424111	6.19	2074866	7.86	3364524	9.12
680-87496-45	CV0971YY-CS	3281825	6.19	1986960	7.86	3262614	9.12
680-87496-47	CV0971AAA-CS	3225980	6.20	1946962	7.86	3214643	9.13
680-87496-48	CV0971BBB-CS	3339592	6.20	2021133	7.86	3342597	9.13
680-87496-48 MS	CV0971BBB-CS MS	3353616	6.19	2027560	7.87	3330952	9.12
680-87496-48 MSD	CV0971BBB-CS MSD	3280026	6.20	1985095	7.87	3232519	9.12
680-87496-49	FM0160A-CS	3405973	6.20	2057771	7.86	3329813	9.13
680-87496-50	FM0160B-CS	3401675	6.19	2031675	7.87	3285448	9.12
680-87496-51	FM0160C-CS	3404157	6.19	2043313	7.86	3331381	9.13

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.: 680-87496-3

SDG No.: 68087496-3

Sample No.: CCVIS 660-134722/3 Date Analyzed: 02/21/2013 11:57

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

Lab File ID (Standard): 1DB21003.D Heated Purge: (Y/N) N

Calibration ID: 2662

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4876621	11.48	5208006	13.36		
UPPER LIMIT		9753242	11.98	10416012	13.86		
LOWER LIMIT		2438311	10.98	2604003	12.86		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134677/1-A		3308053	11.47	3181769	13.35		
LCS 660-134677/2-A		3316322	11.47	3169855	13.35		
680-87496-45	CV0971YY-CS	3205805	11.47	3098127	13.35		
680-87496-47	CV0971AAA-CS	3132889	11.47	2835811	13.36		
680-87496-48	CV0971BBB-CS	3262092	11.47	2897932	13.36		
680-87496-48 MS	CV0971BBB-CS MS	3258268	11.47	2838548	13.36		
680-87496-48 MSD	CV0971BBB-CS MSD	3166345	11.47	2723446	13.36		
680-87496-49	FM0160A-CS	3279366	11.47	2839718	13.36		
680-87496-50	FM0160B-CS	3220160	11.47	2747346	13.36		
680-87496-51	FM0160C-CS	3186873	11.47	2724426	13.36		

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.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: CV0971VV-CS | Lab Sample ID: 680-87496-41

Matrix: Solid | Lab File ID: 1CB21025.D

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

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.10(g) | Date Analyzed: 02/21/2013 18:31

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

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

% Moisture: 7.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | 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	130		36	18
56-55-3	Benzo[a]anthracene	600		34	17
50-32-8	Benzo[a]pyrene	640		44	22
205-99-2	Benzo[b]fluoranthene	1100		52	26
191-24-2	Benzo[g,h,i]perylene	480		85	19
207-08-9	Benzo[k]fluoranthene	320		34	15
218-01-9	Chrysene	680		38	19
53-70-3	Dibenz(a,h)anthracene	150		85	18
206-44-0	Fluoranthene	1200		85	17
86-73-7	Fluorene	50	J	85	18
193-39-5	Indeno[1,2,3-cd]pyrene	410		85	30
90-12-0	1-Methylnaphthalene	120	J	170	19
91-57-6	2-Methylnaphthalene	140	J	170	30
91-20-3	Naphthalene	120	J	170	19
85-01-8	Phenanthrene	580		34	17
129-00-0	Pyrene	1100		85	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	100		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21025.D
Lab Smp Id: 680-87496-A-41-A Client Smp ID: CV0971VV-CS
Inj Date : 21-FEB-2013 18:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-41-a
Misc Info : 680-87496-A-41-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 25
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	15.100	Weight Extracted
M	7.004	% 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	3.810	3.810	(1.000)	1817389	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1380098	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2406521	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	88110	2.49879	711.7844
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	2507954	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2294265	40.0000	
2 Naphthalene	128	3.827	3.821	(1.005)	20804	0.43199	123.0531
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	15303	0.48870	139.2064
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	11612	0.40773	116.1431
5 Acenaphthylene	152	4.816	4.815	(0.983)	19305	0.35160	100.1537
9 Fluorene	166	5.239	5.239	(1.070)	7745	0.17521	49.9084
11 Phenanthrene	178	5.868	5.874	(1.002)	147286	2.05039	584.0574
12 Anthracene	178	5.904	5.904	(1.008)	29172	0.45075	128.3957
13 Carbazole	167	6.010	6.015	(1.026)	19605	0.34874	99.3393

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	288732	4.11353	1171.7440
16 Pyrene	202	6.880	6.886	(0.881)	253900	3.80273	1083.2121
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	145870	2.10916	600.7964
19 Chrysene	228	7.827	7.833	(1.002)	169358	2.37067	675.2881
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	224501	3.99128	1136.9209
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	69799	1.12640	320.8560(M)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	119632	2.23515	636.6855
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	74089	1.44120	410.5287(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	24998	0.51565	146.8842
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	88837	1.70121	484.5910

QC Flag Legend

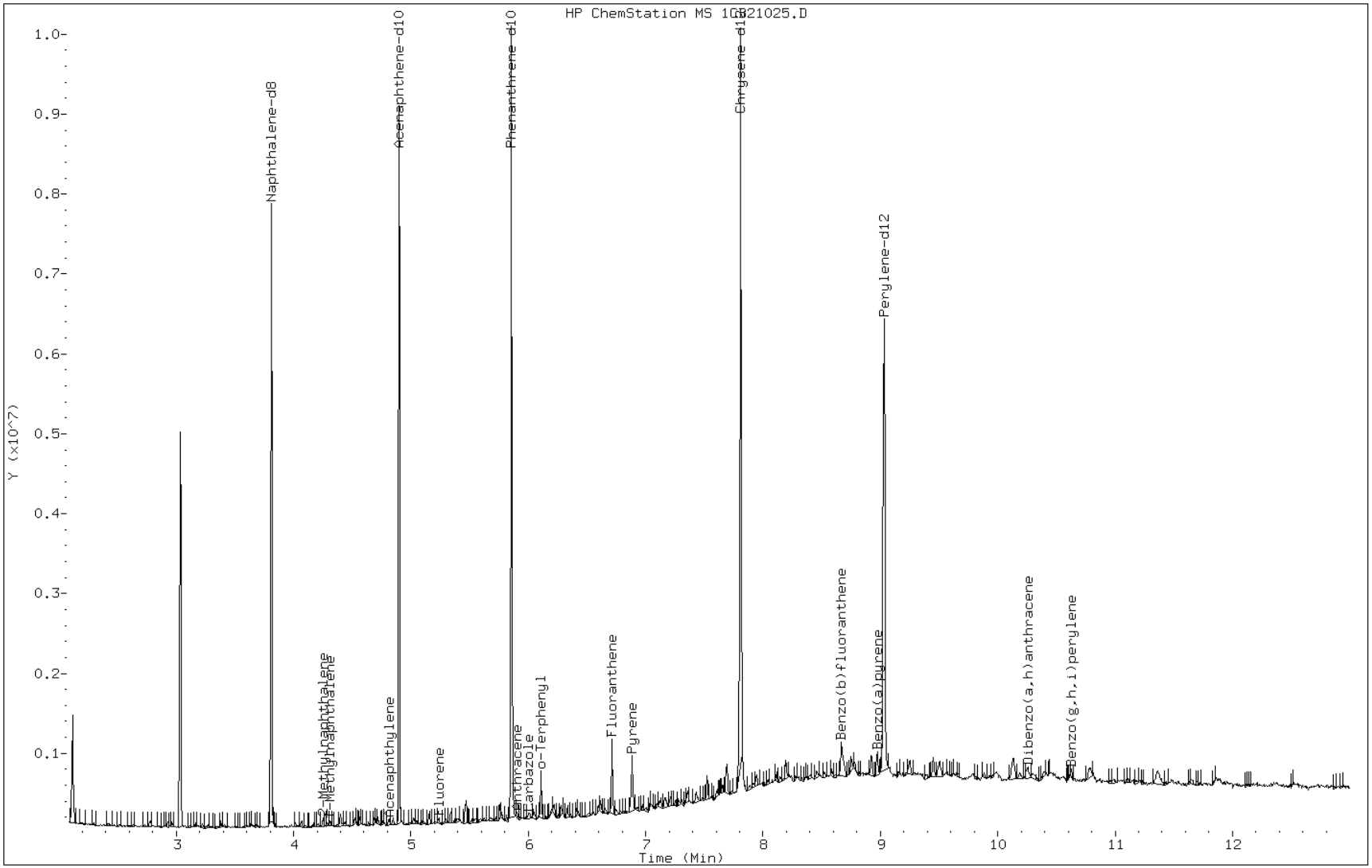
M - Compound response manually integrated.

Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC



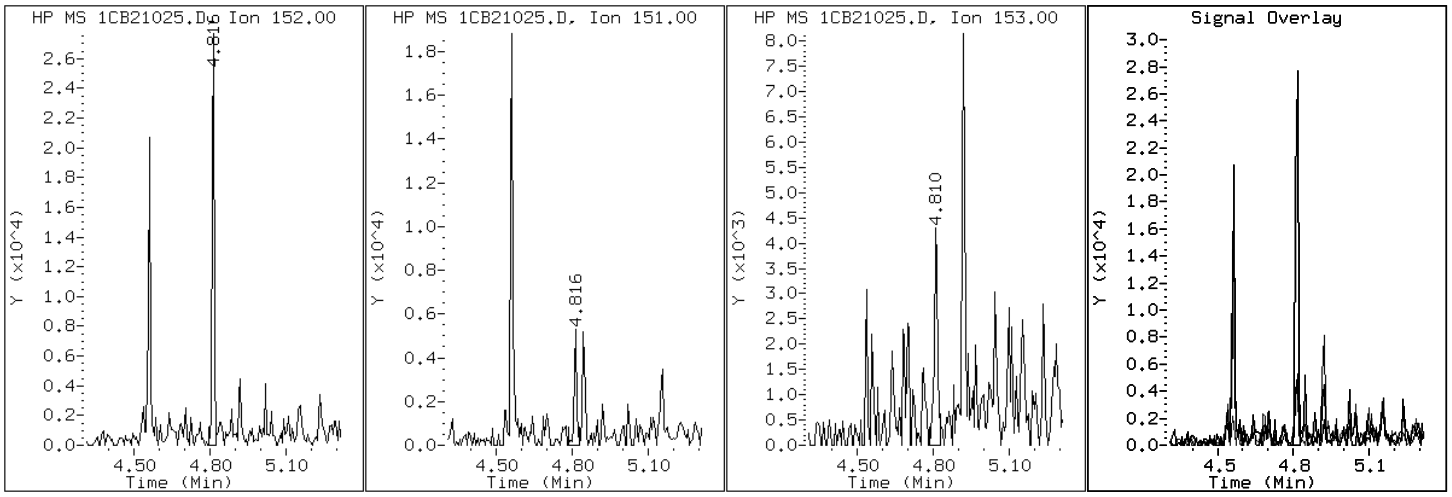
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

5 Acenaphthylene



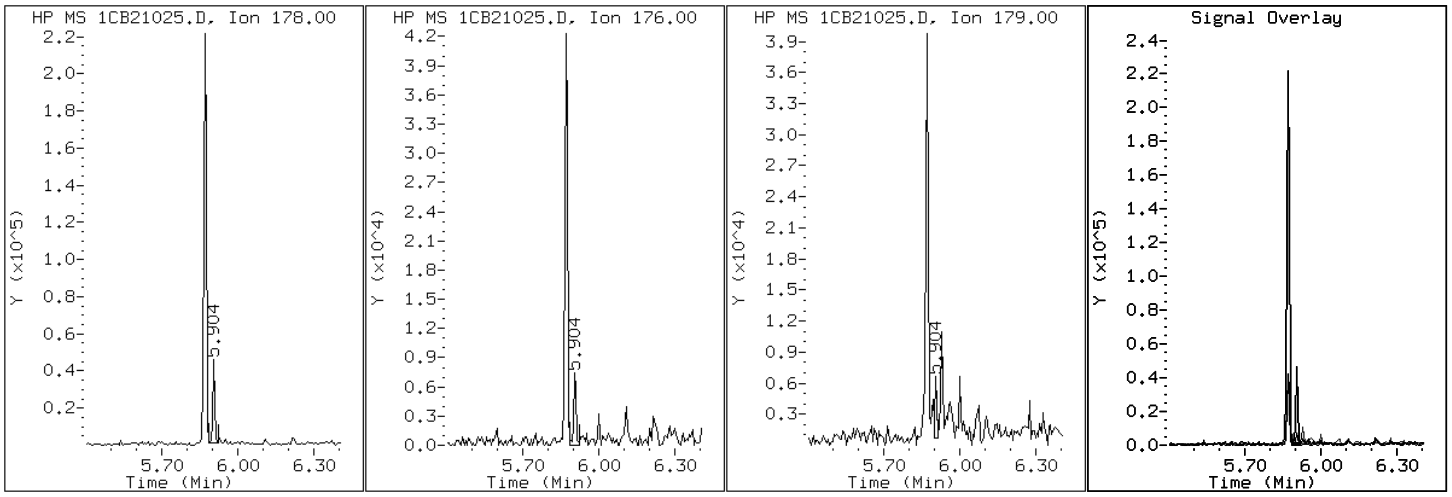
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

12 Anthracene



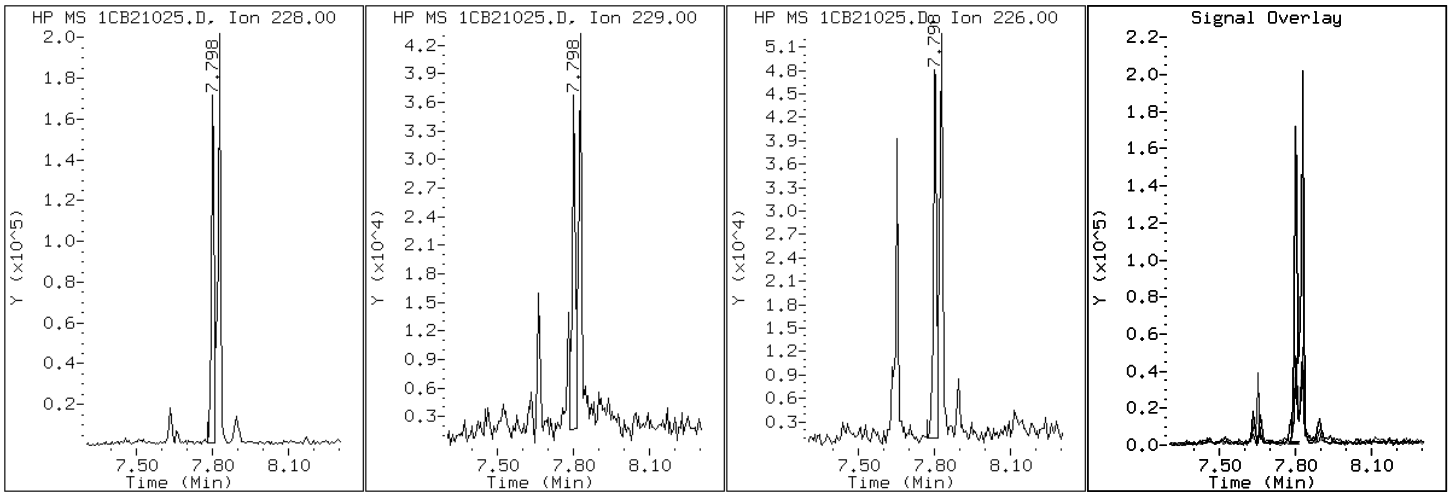
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

17 Benzo(a)anthracene



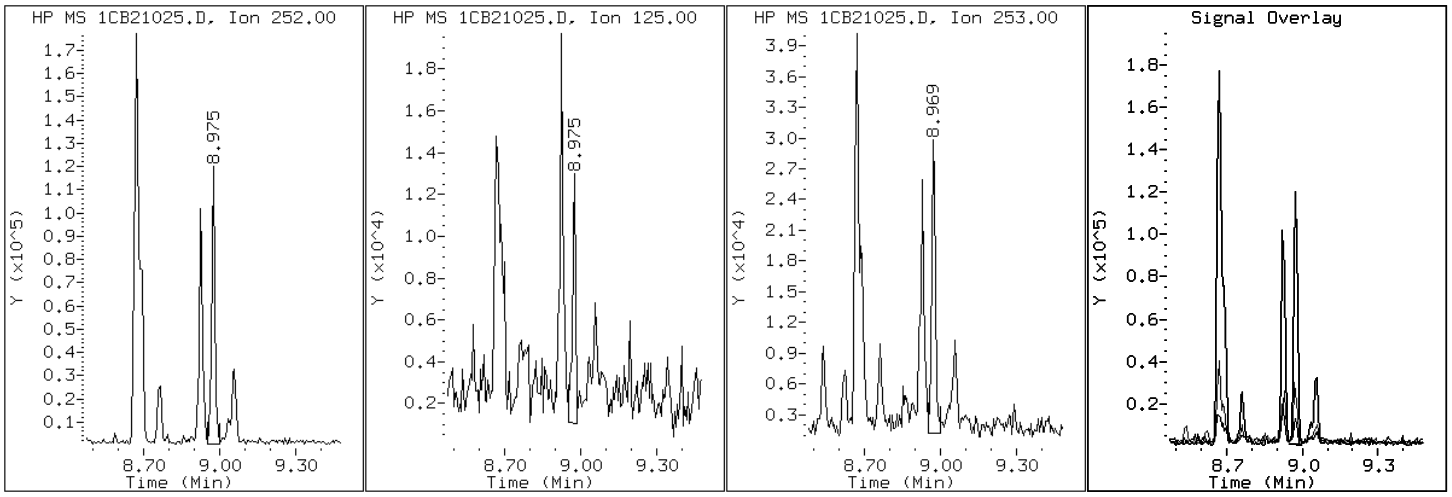
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

22 Benzo(a)pyrene



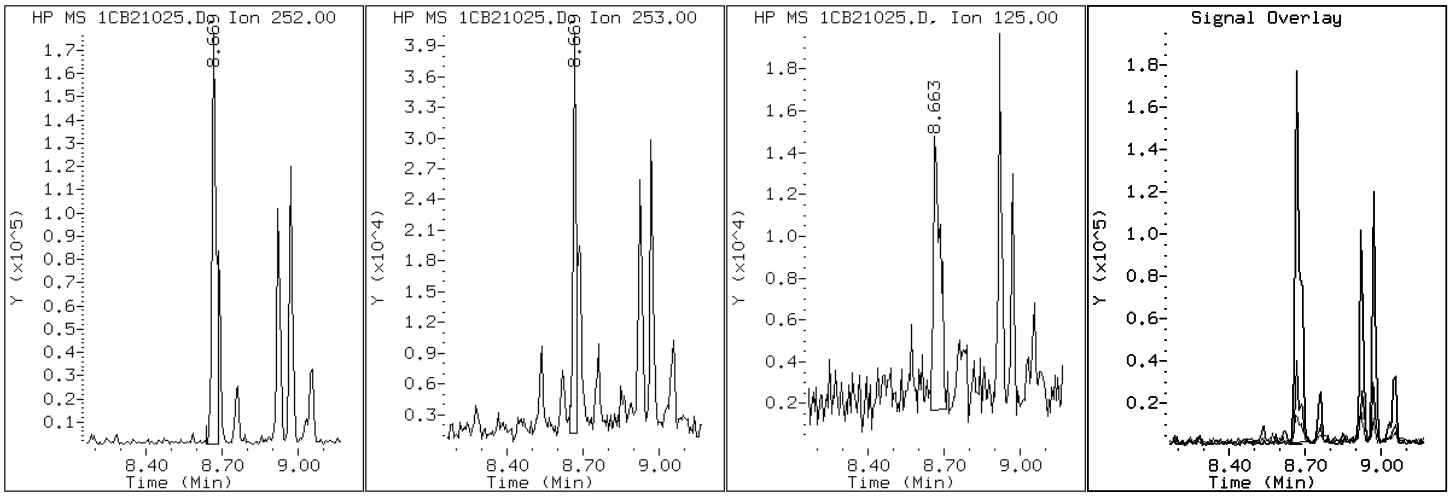
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

20 Benzo(b)fluoranthene



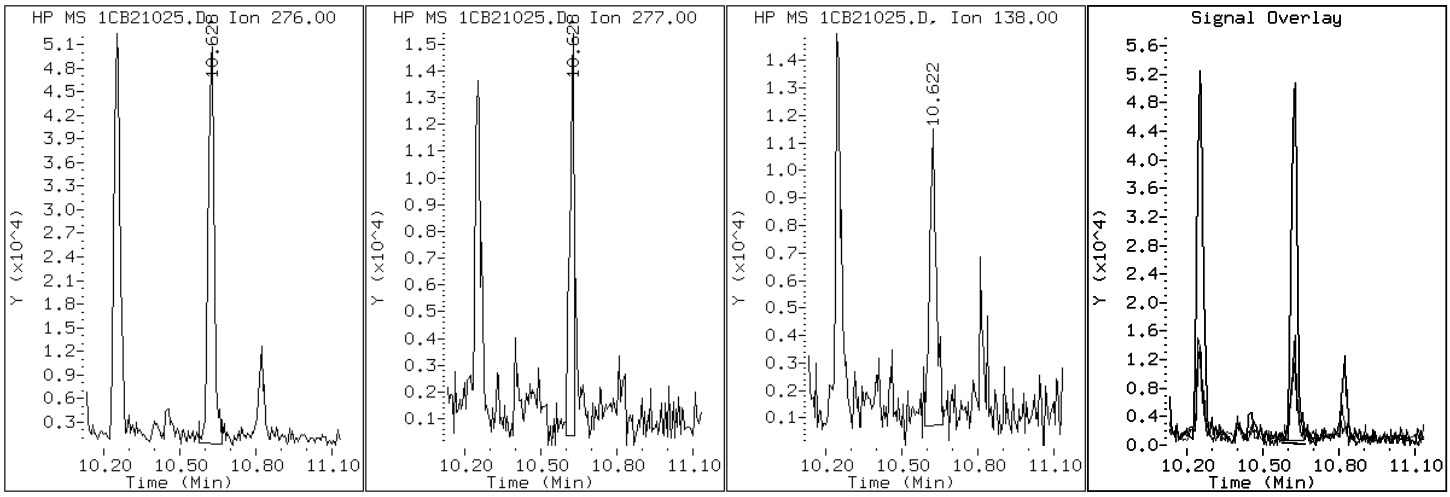
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

26 Benzo(g,h,i)perylene



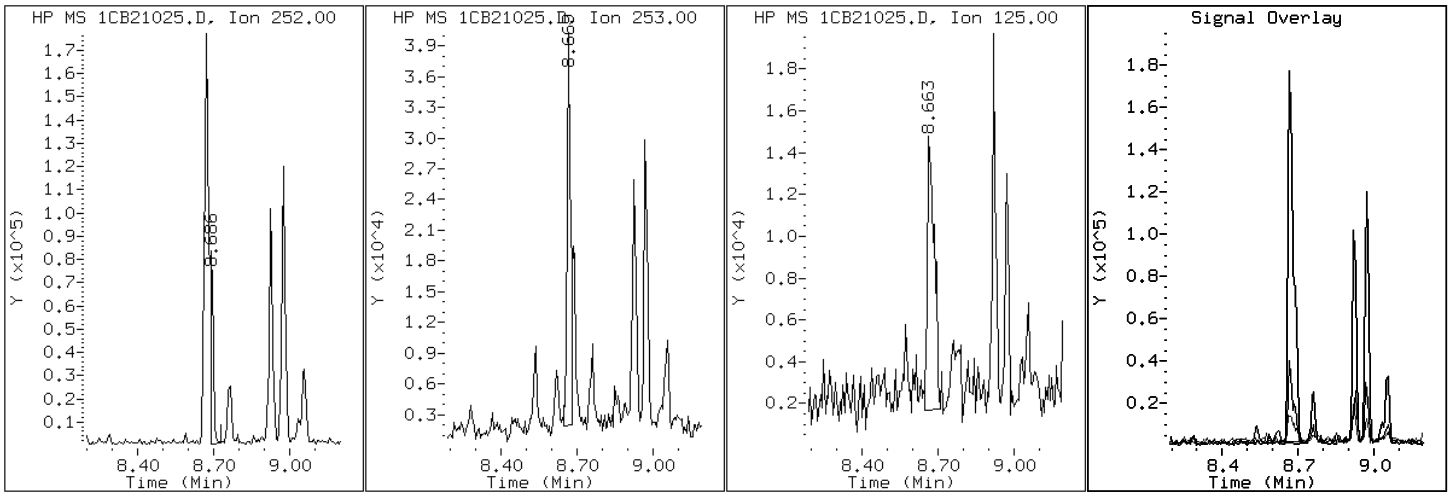
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

21 Benzo(k)fluoranthene



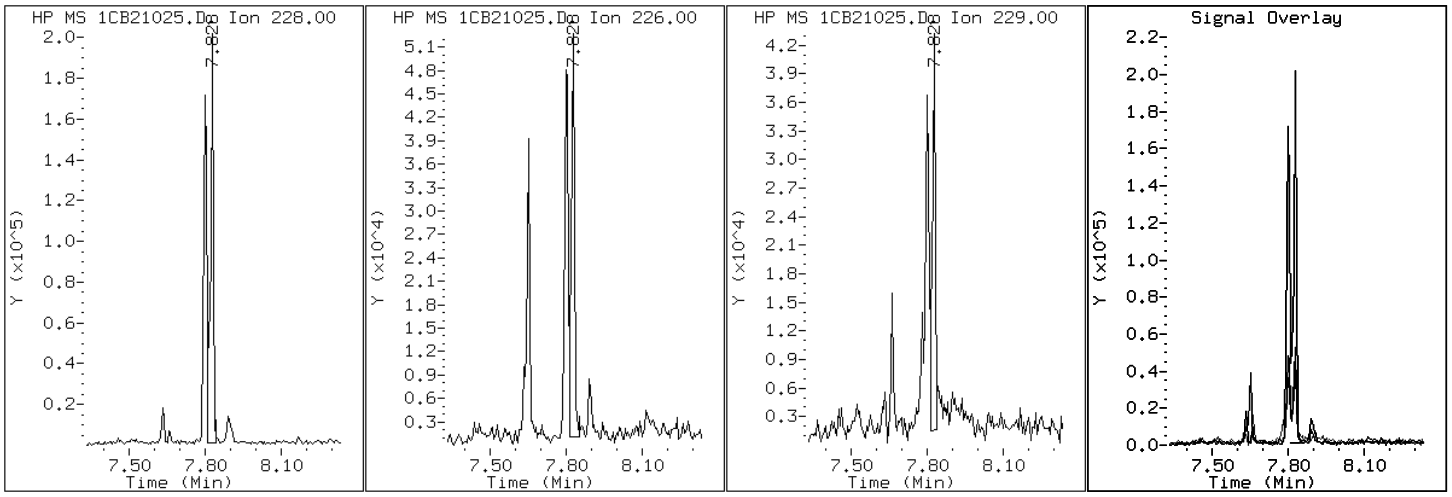
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

19 Chrysene



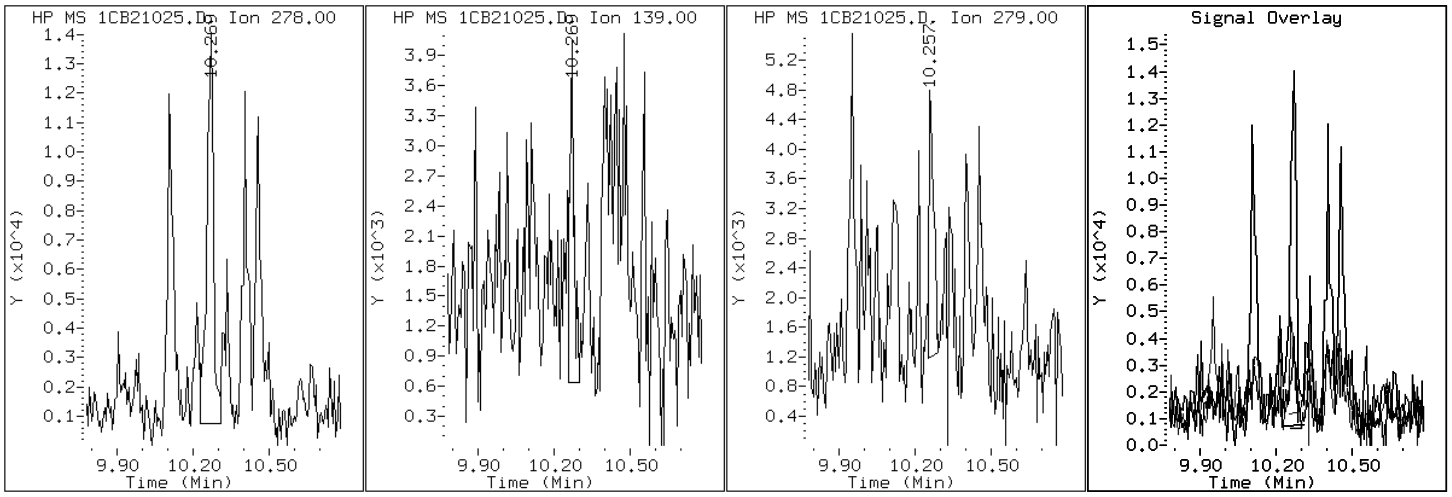
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

25 Dibenzo(a,h)anthracene



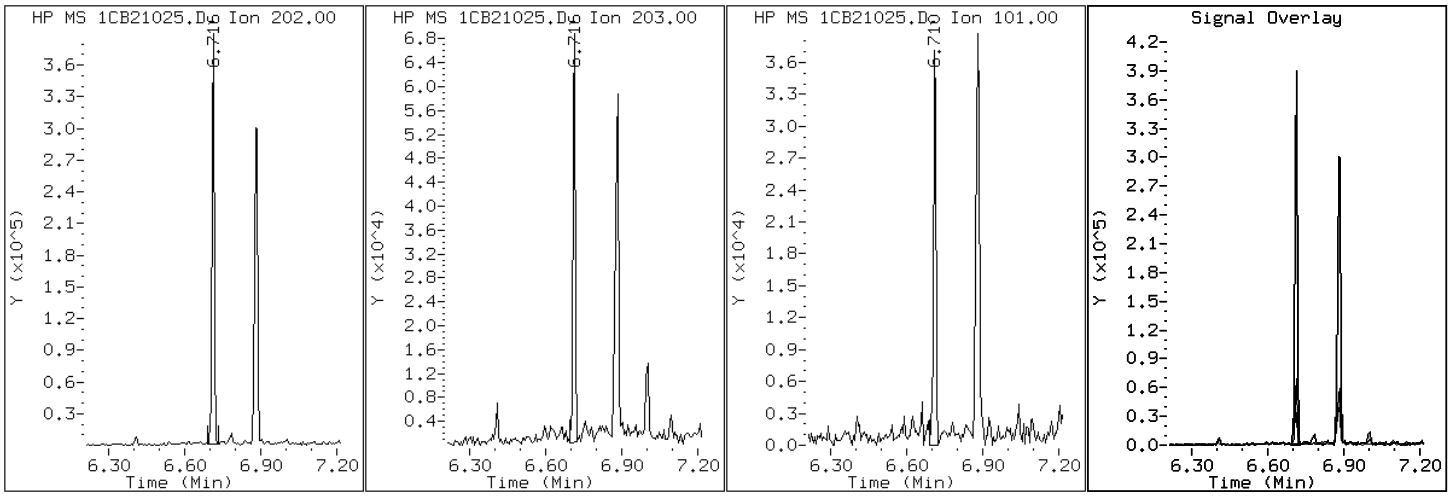
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

15 Fluoranthene



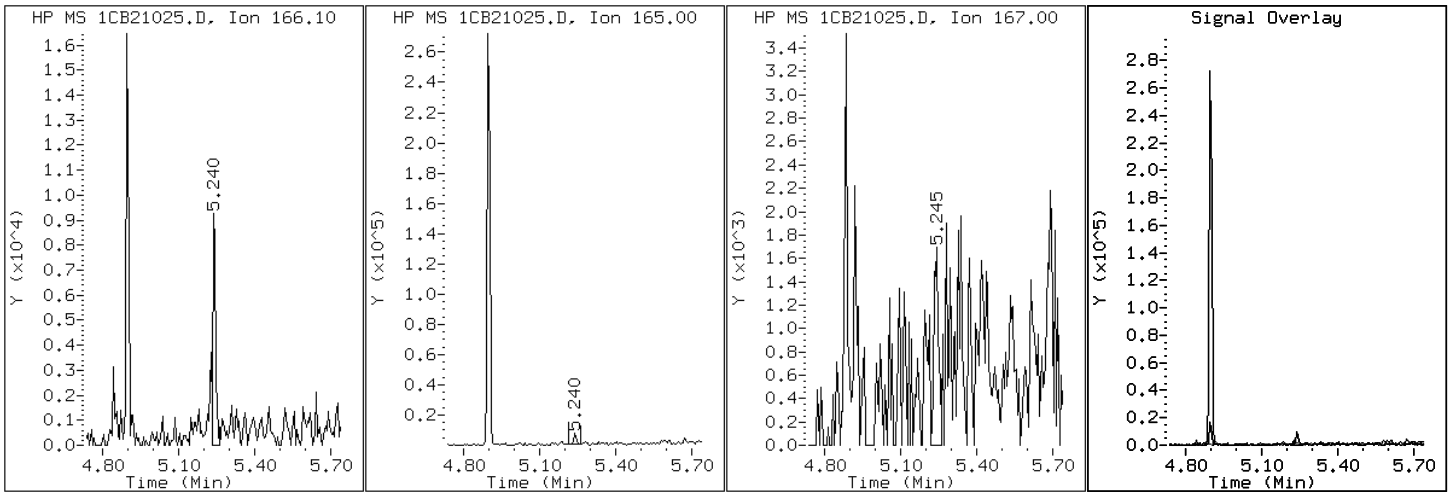
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

9 Fluorene



Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

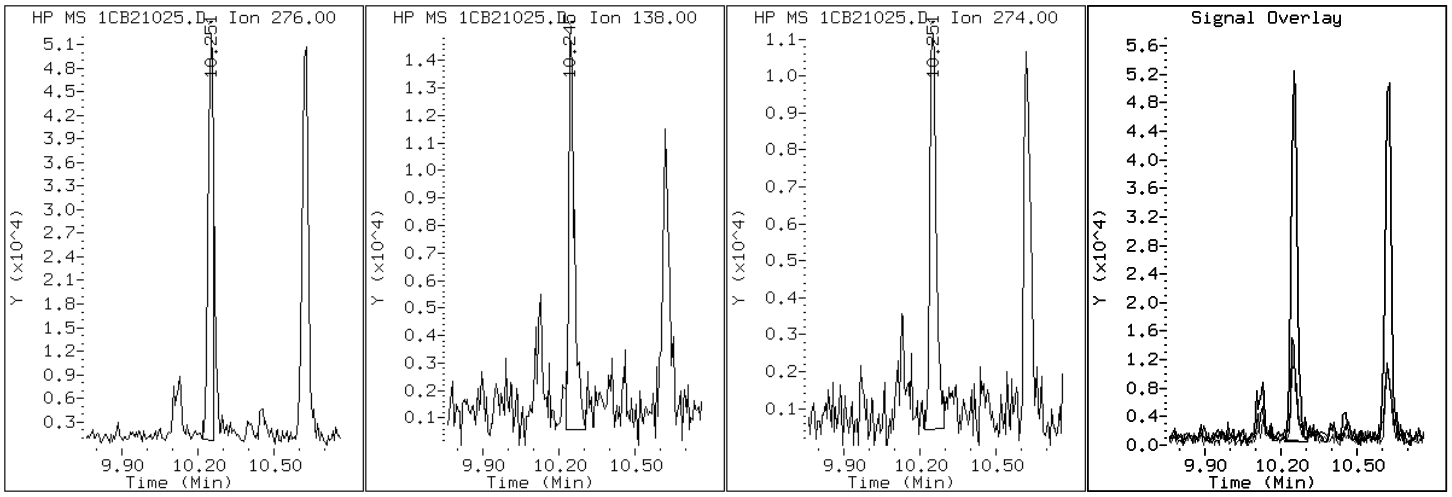
Client ID: CV0971VV-CS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a

Operator: SCC

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



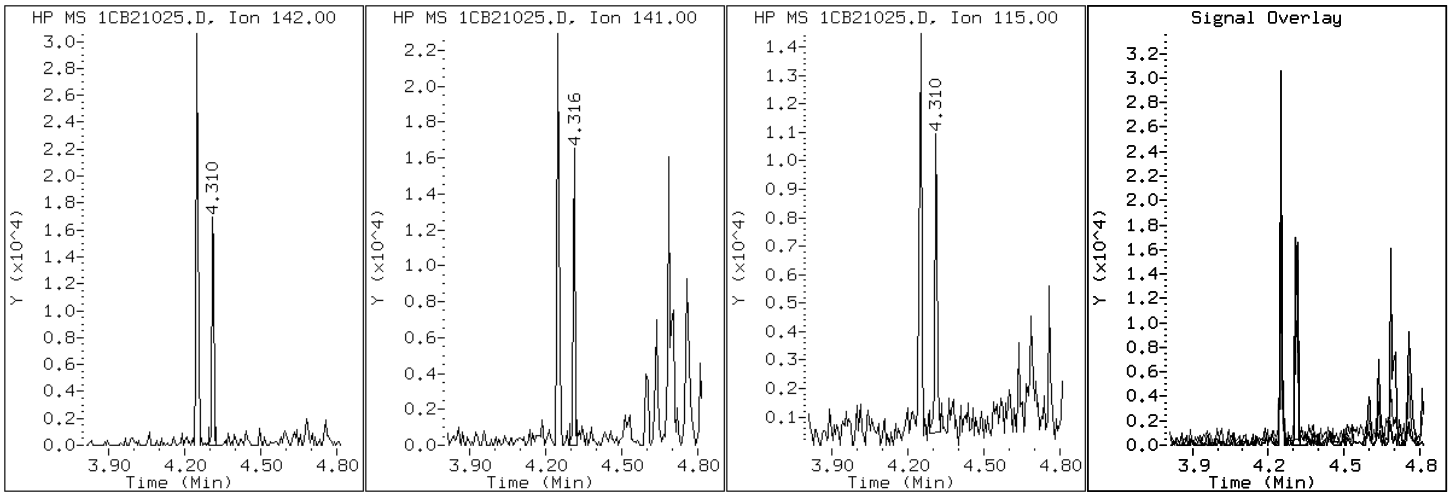
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

4 1-Methylnaphthalene



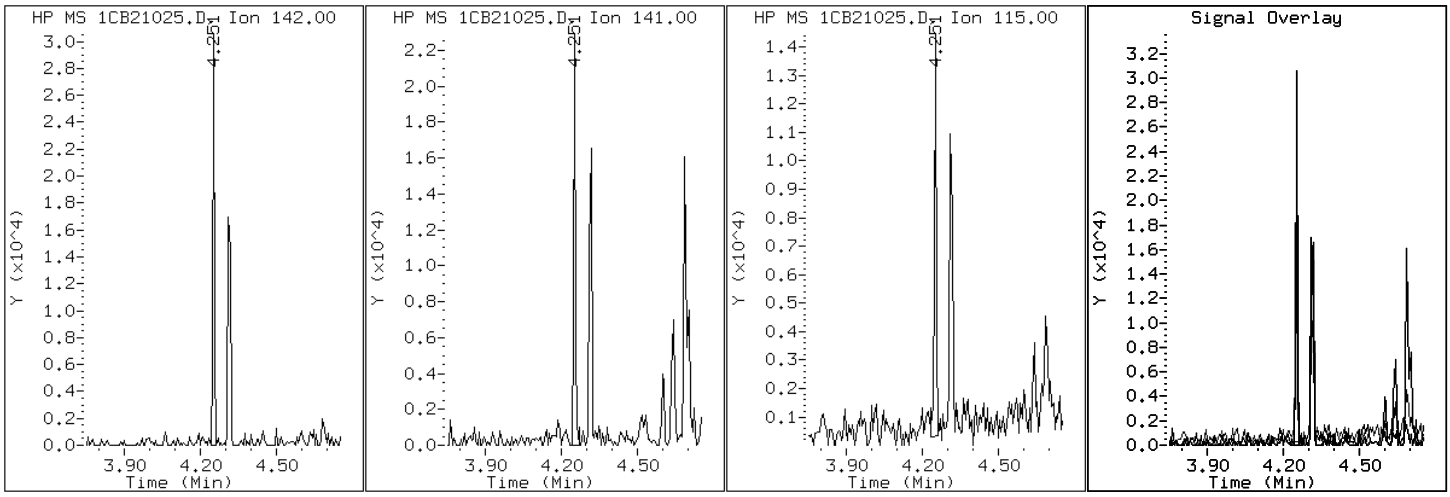
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

3 2-Methylnaphthalene



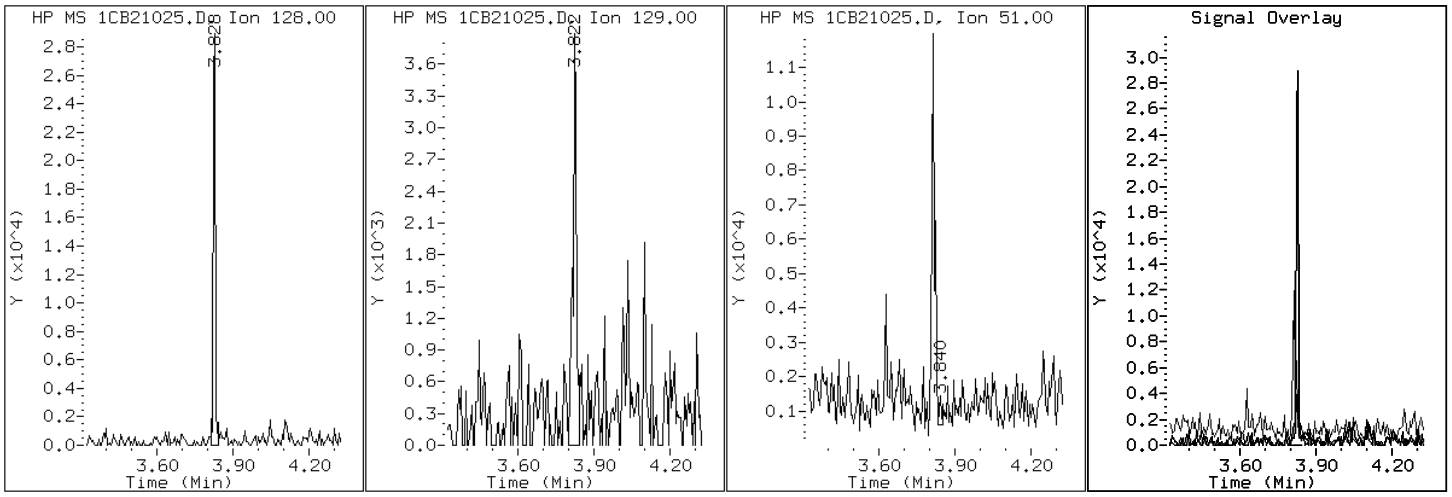
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

2 Naphthalene



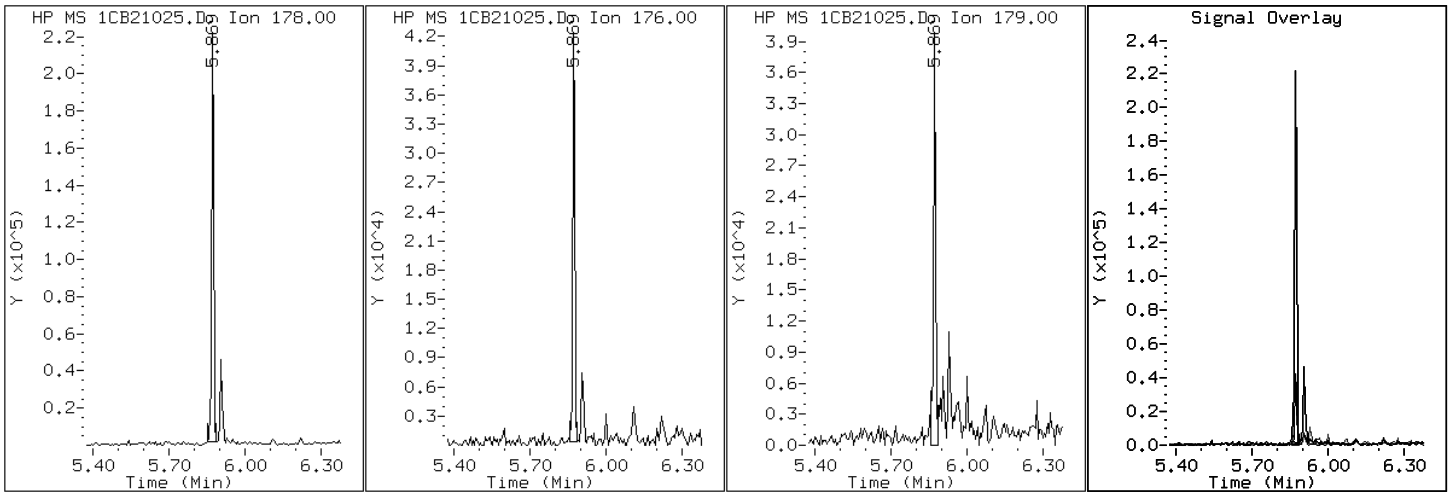
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

11 Phenanthrene



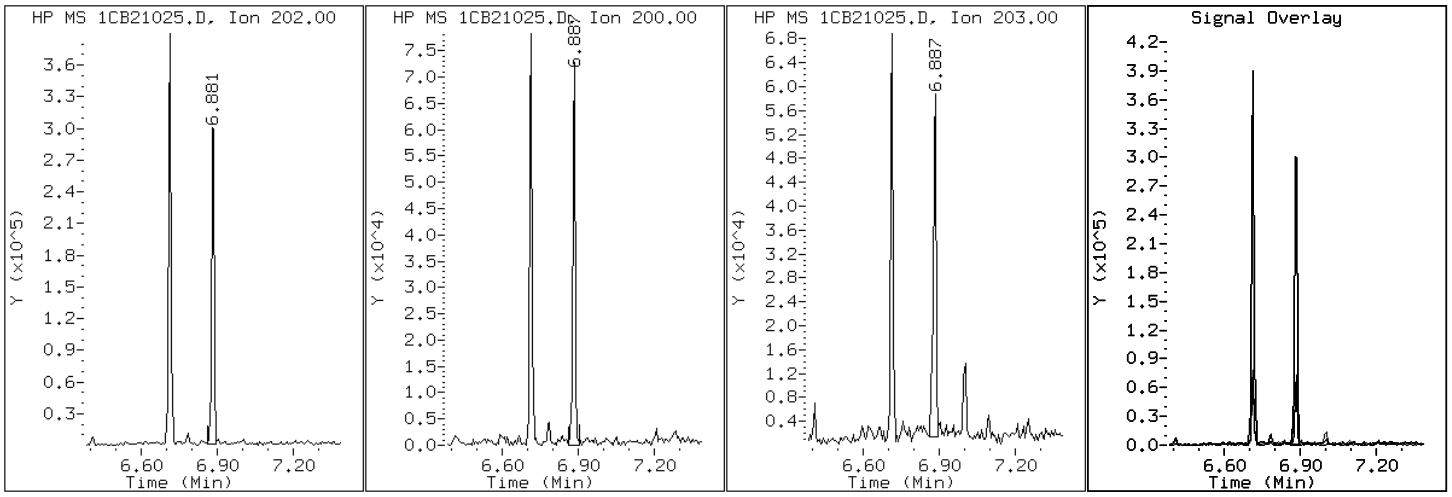
Data File: 1CB21025.D

Date: 21-FEB-2013 18:31

Client ID: CV0971VV-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-41-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21025.D
Inj. Date and Time: 21-FEB-2013 18:31
Instrument ID: BSMC5973.i
Client ID: CV0971VV-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/22/2013

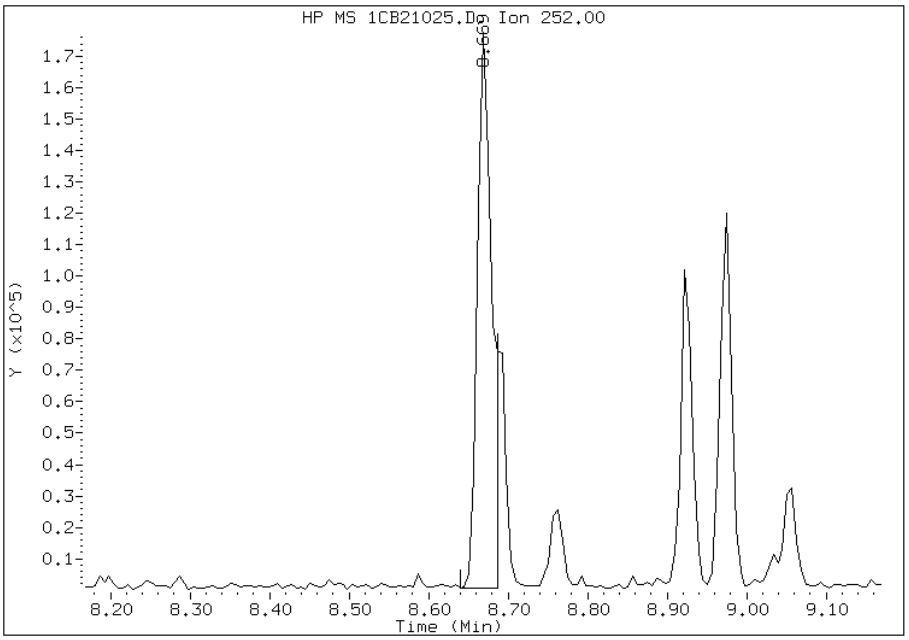
Processing Integration Results

RT: 8.67

Response: 224501

Amount: 4

Conc: 1032



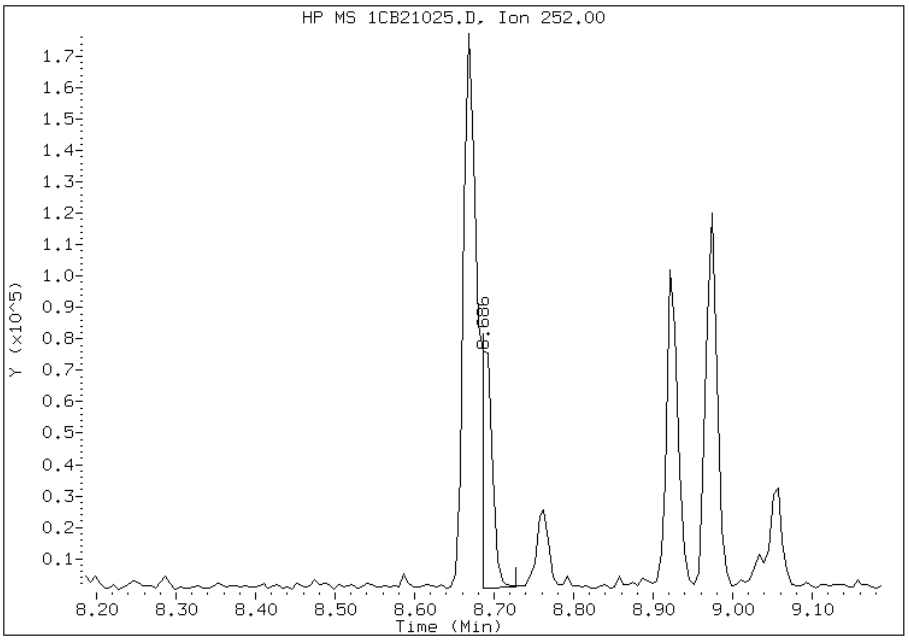
Manual Integration Results

RT: 8.69

Response: 69799

Amount: 1

Conc: 321



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:18
Manual Integration Reason: Analyte Misidentified by the Data System

Manual Integration Report

Data File: 1CB21025.D
Inj. Date and Time: 21-FEB-2013 18:31
Instrument ID: BSMC5973.i
Client ID: CV0971VV-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

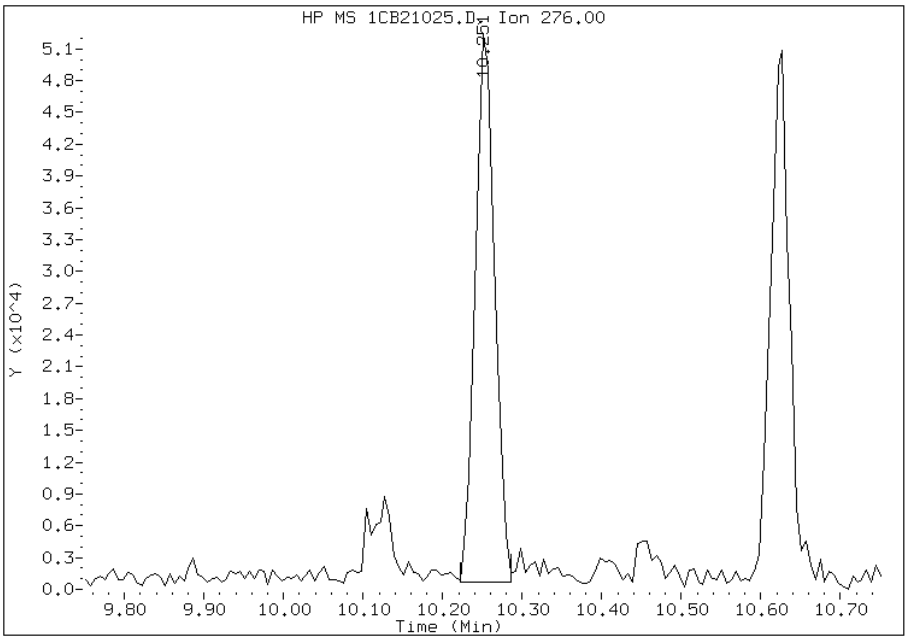
Processing Integration Results

RT: 10.25

Response: 87130

Amount: 2

Conc: 483



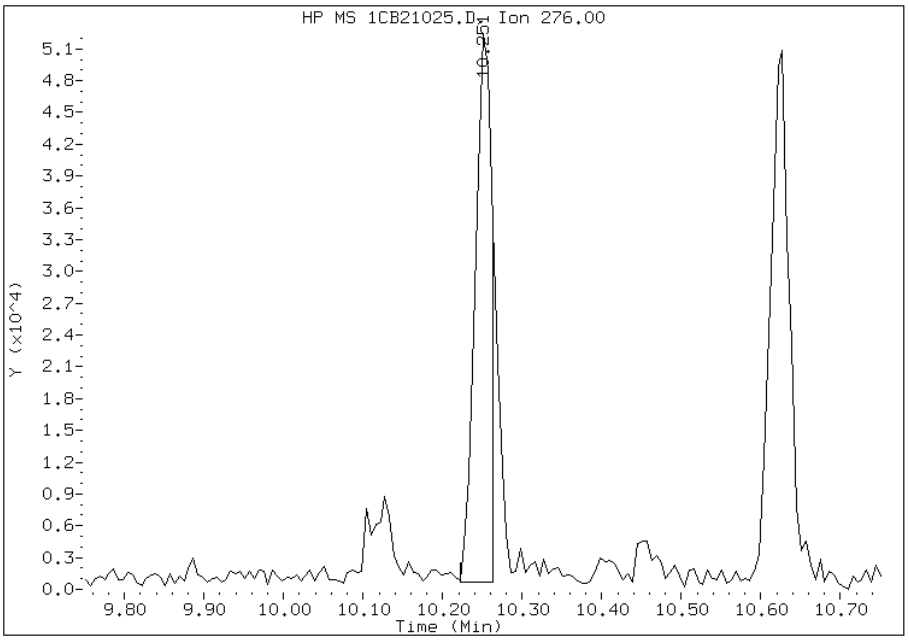
Manual Integration Results

RT: 10.25

Response: 74089

Amount: 1

Conc: 411



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: CV0971VV-CSD | Lab Sample ID: 680-87496-42

Matrix: Solid | Lab File ID: 1CB21026.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 13:48

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.13(g) | Date Analyzed: 02/21/2013 18:49

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

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

% Moisture: 11.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	25	J	110	22
208-96-8	Acenaphthylene	80		45	5.6
120-12-7	Anthracene	76		9.4	4.7
56-55-3	Benzo[a]anthracene	410		8.9	4.4
50-32-8	Benzo[a]pyrene	420		12	5.8
205-99-2	Benzo[b]fluoranthene	700		14	6.8
191-24-2	Benzo[g,h,i]perylene	330		22	4.9
207-08-9	Benzo[k]fluoranthene	260		8.9	4.0
218-01-9	Chrysene	430		10	5.0
53-70-3	Dibenz(a,h)anthracene	82		22	4.6
206-44-0	Fluoranthene	730		22	4.5
86-73-7	Fluorene	29		22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	280		22	7.9
90-12-0	1-Methylnaphthalene	98		45	4.9
91-57-6	2-Methylnaphthalene	110		45	7.9
91-20-3	Naphthalene	110		45	4.9
85-01-8	Phenanthrene	350		8.9	4.4
129-00-0	Pyrene	690		22	4.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21026.D
Lab Smp Id: 680-87496-A-42-A Client Smp ID: CV0971VV-CSD
Inj Date : 21-FEB-2013 18:49
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-42-a
Misc Info : 680-87496-A-42-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 26
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	11.176	% 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	3.810	3.810	(1.000)	1675119	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1292601	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2361723	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	338705	9.78785	728.3168
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	2521072	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2273602	40.0000	
2 Naphthalene	128	3.822	3.821	(1.003)	62985	1.41895	105.5844
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	43858	1.51955	113.0703
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	34646	1.31985	98.2102
5 Acenaphthylene	152	4.816	4.815	(0.983)	55383	1.07696	80.1372
7 Acenaphthene	154	4.921	4.921	(1.005)	10800	0.33485	24.9163
9 Fluorene	166	5.239	5.239	(1.070)	16055	0.38778	28.8551
11 Phenanthrene	178	5.868	5.874	(1.002)	331561	4.70327	349.9717
12 Anthracene	178	5.904	5.904	(1.008)	64597	1.01704	75.6784

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	(1.027)	46145	0.83641	62.2378
15 Fluoranthene	202	6.715	6.715	(1.147)	679369	9.86248	733.8698
16 Pyrene	202	6.886	6.886	(0.882)	620908	9.25112	688.3783
17 Benzo(a)anthracene	228	7.804	7.803	(0.999)	379620	5.46043	406.3119
19 Chrysene	228	7.827	7.833	(1.002)	416708	5.80272	431.7818
20 Benzo(b)fluoranthene	252	8.674	8.668	(0.960)	526996	9.45432	703.4985(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	212232	3.45607	257.1673(M)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	297178	5.60280	416.9060
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	190475	3.73886	278.2093(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	53260	1.10862	82.4926
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.177)	228131	4.40836	328.0271

QC Flag Legend

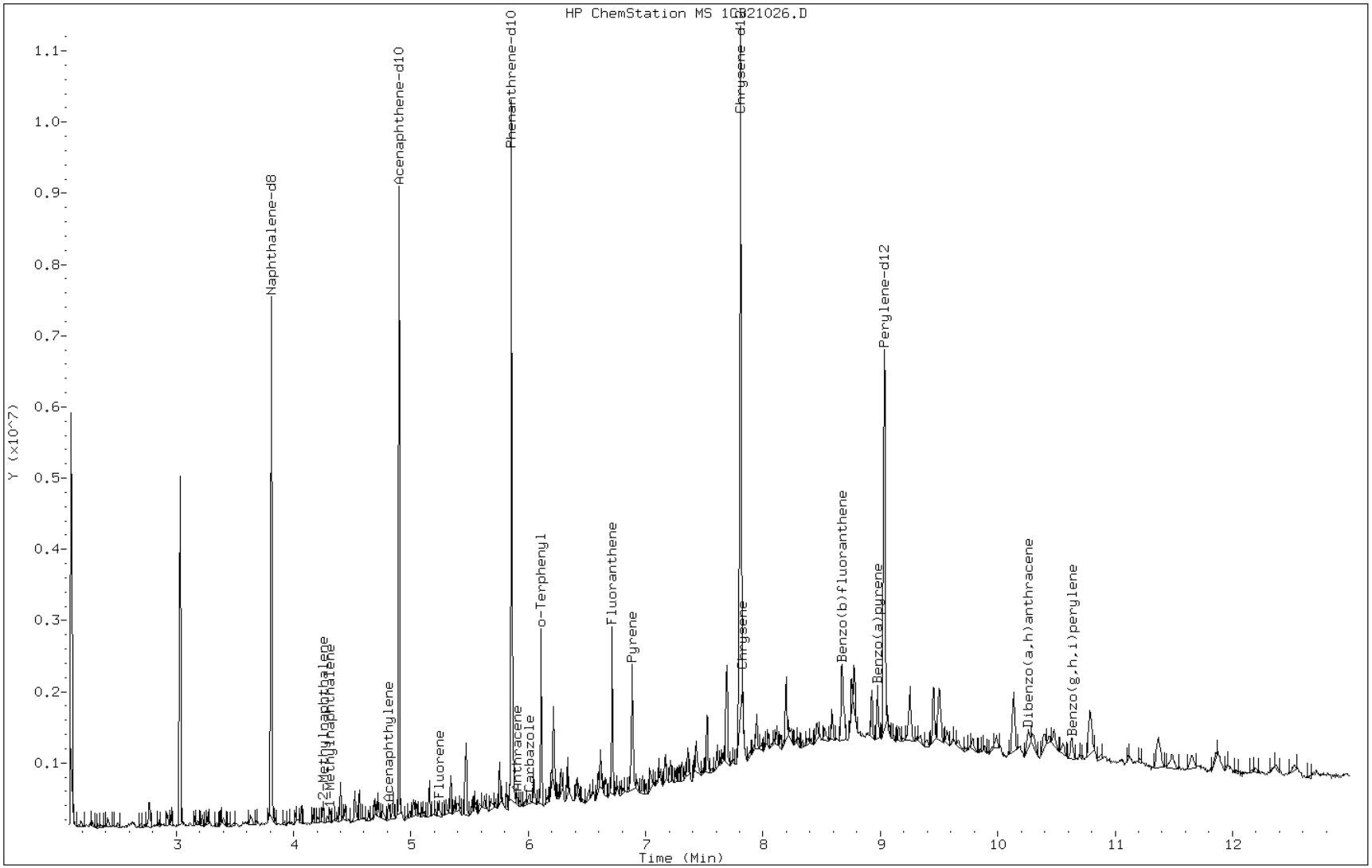
M - Compound response manually integrated.

Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC



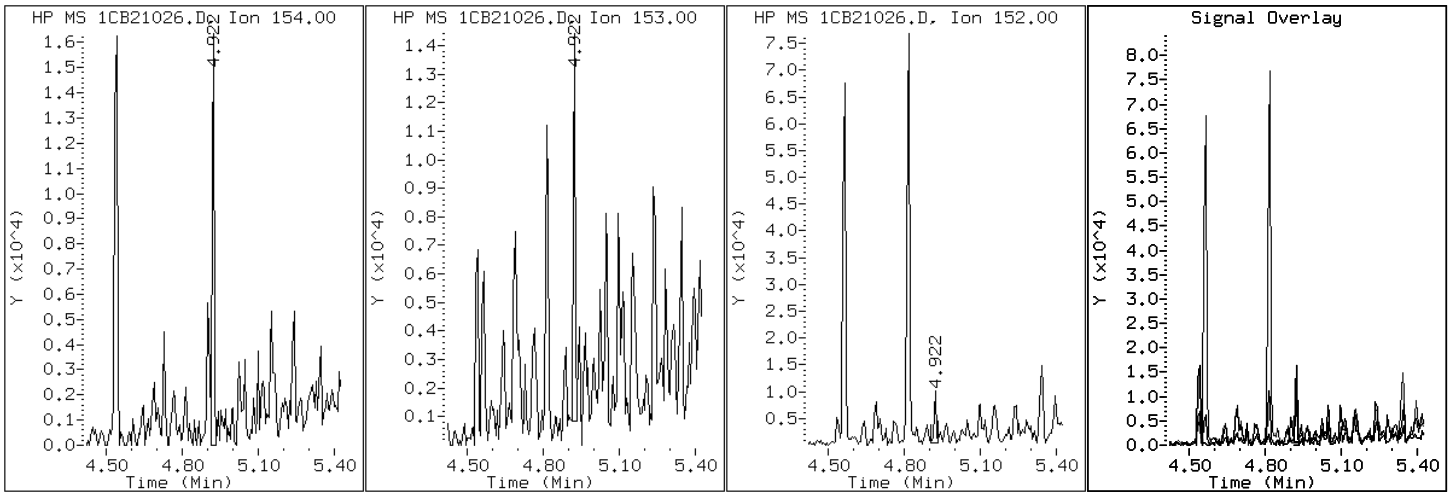
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

7 Acenaphthene



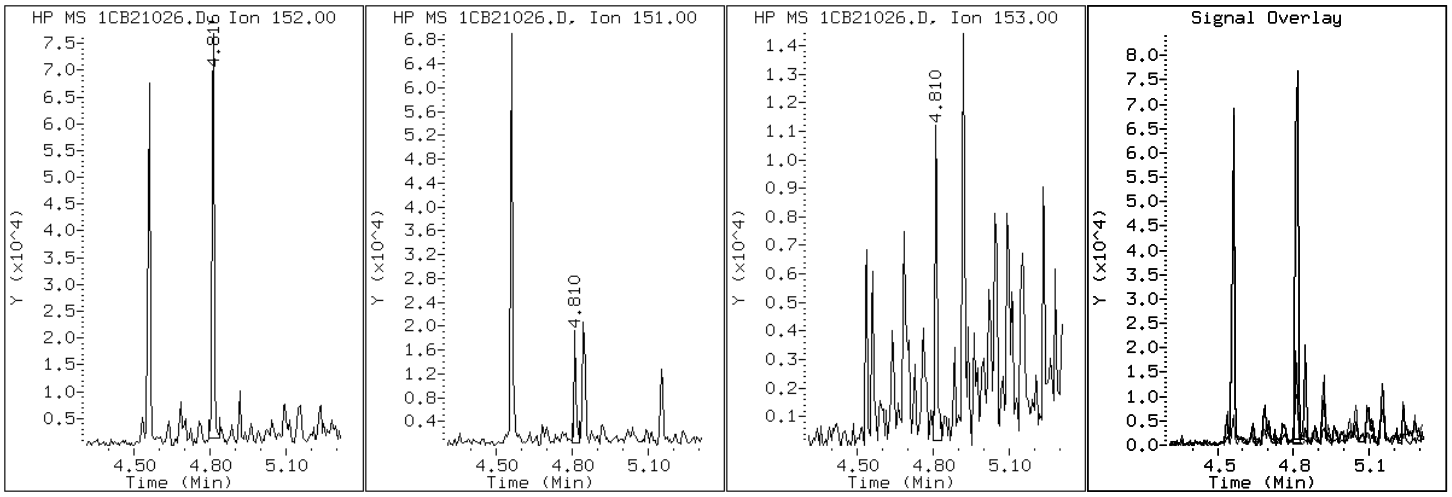
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

5 Acenaphthylene



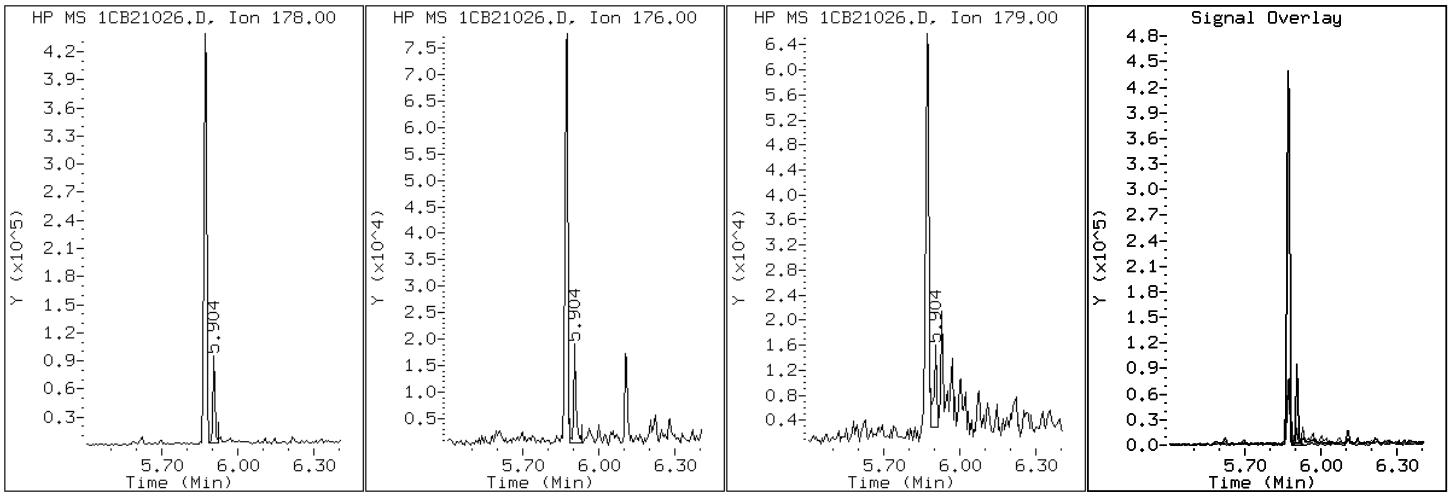
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

12 Anthracene



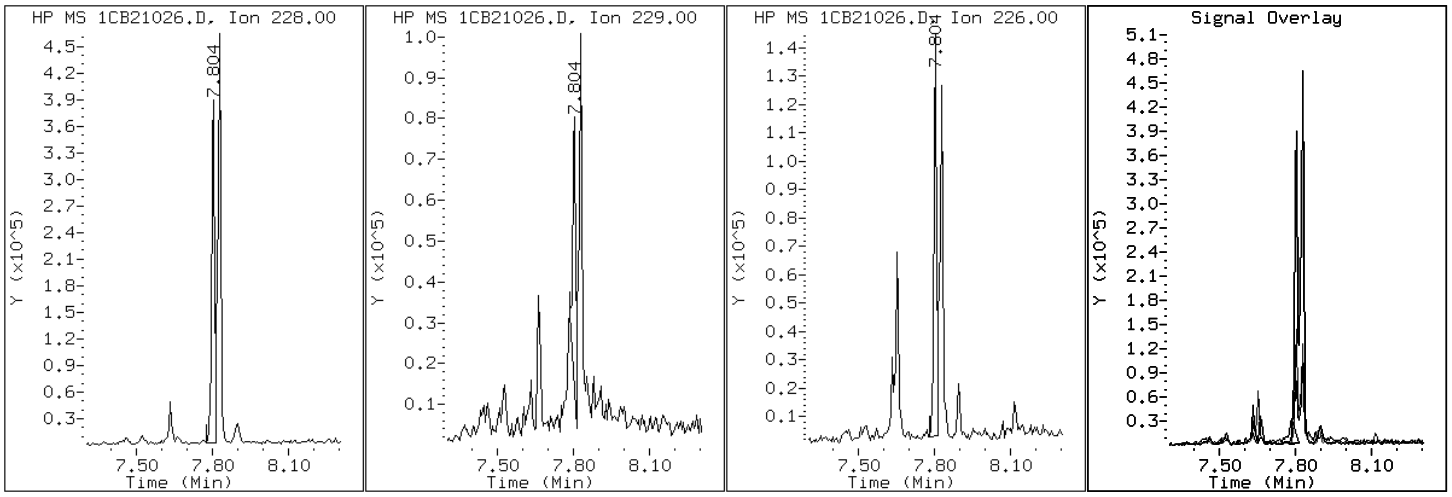
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

17 Benzo(a)anthracene



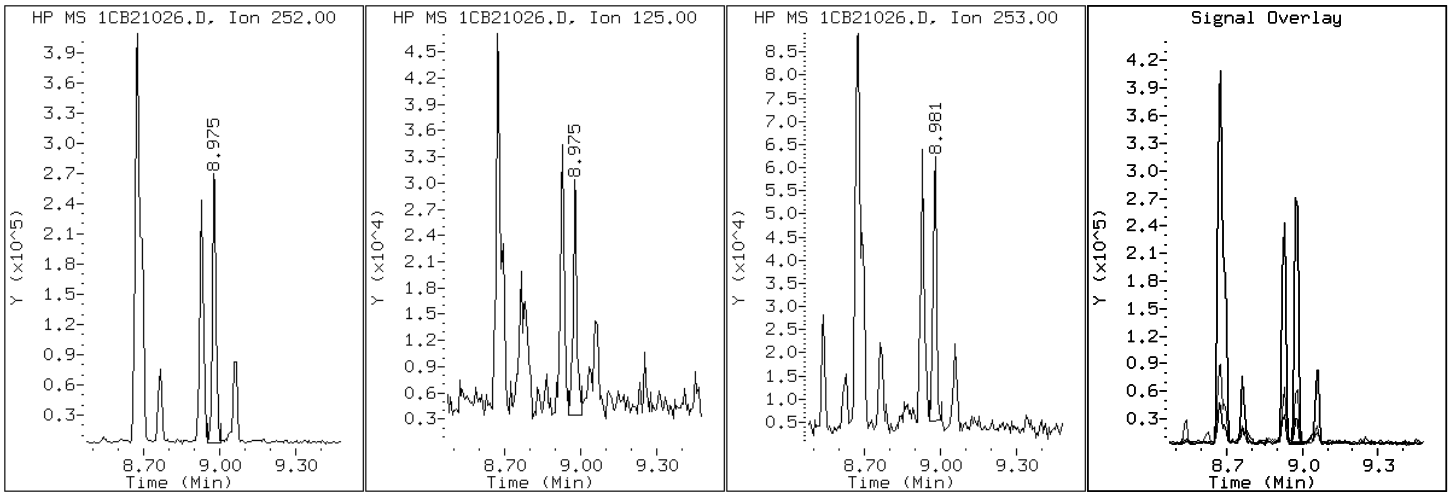
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

22 Benzo(a)pyrene



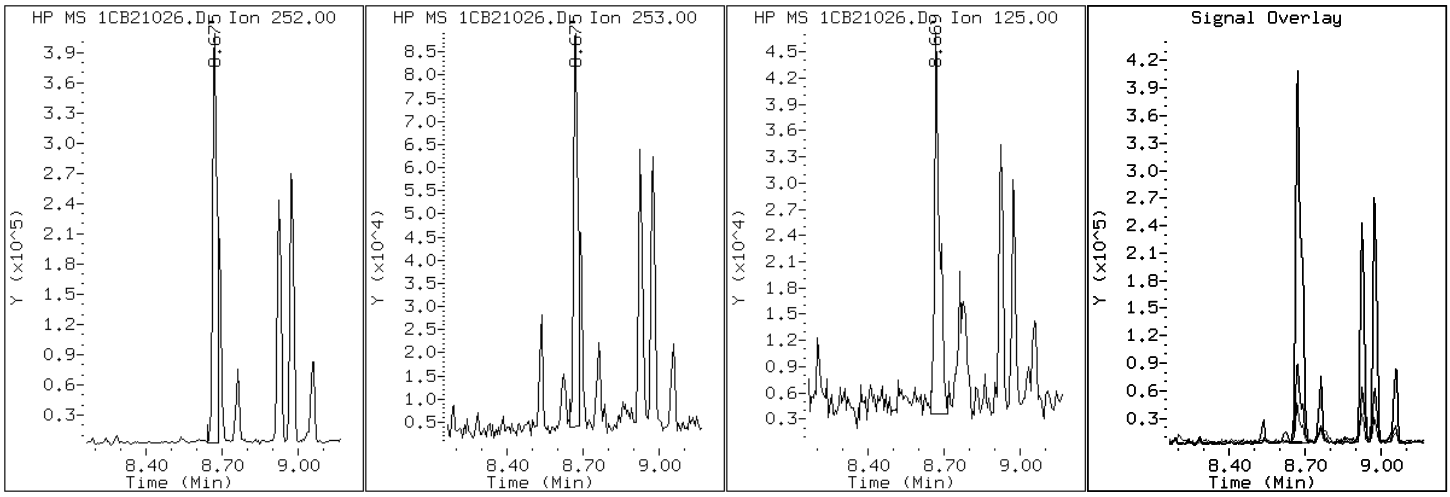
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

20 Benzo(b)fluoranthene



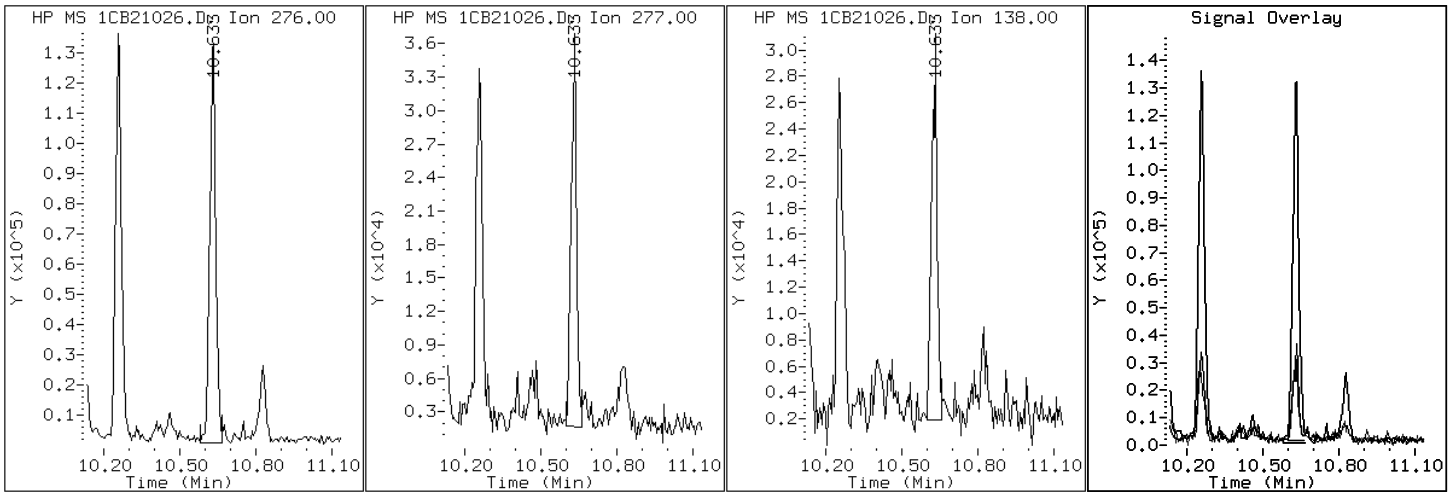
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

26 Benzo(g,h,i)perylene



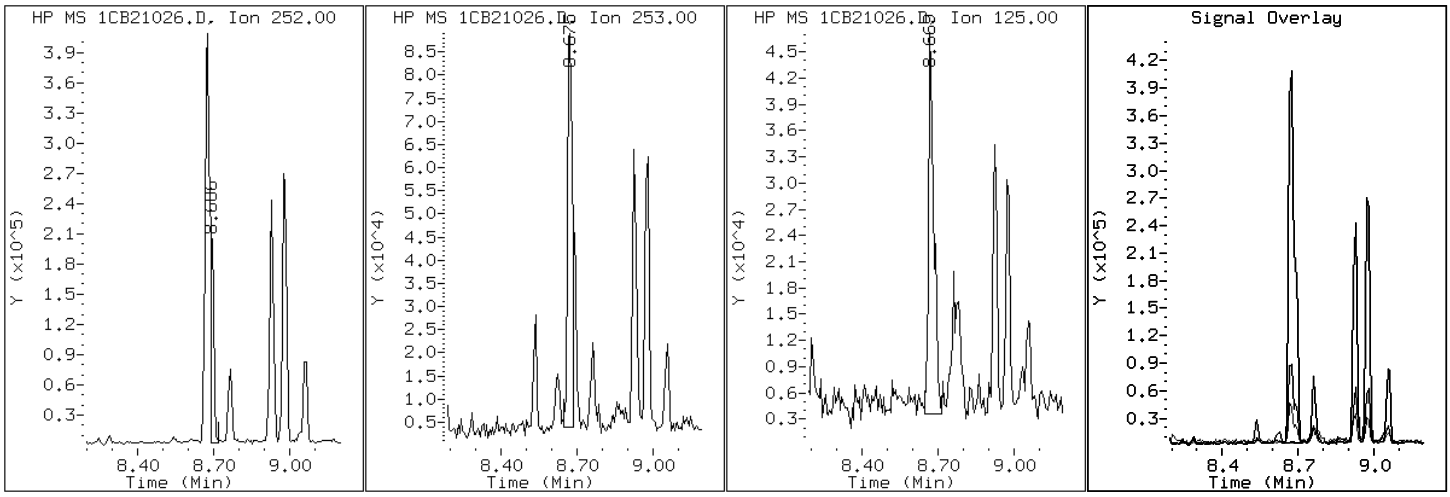
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

21 Benzo(k)fluoranthene



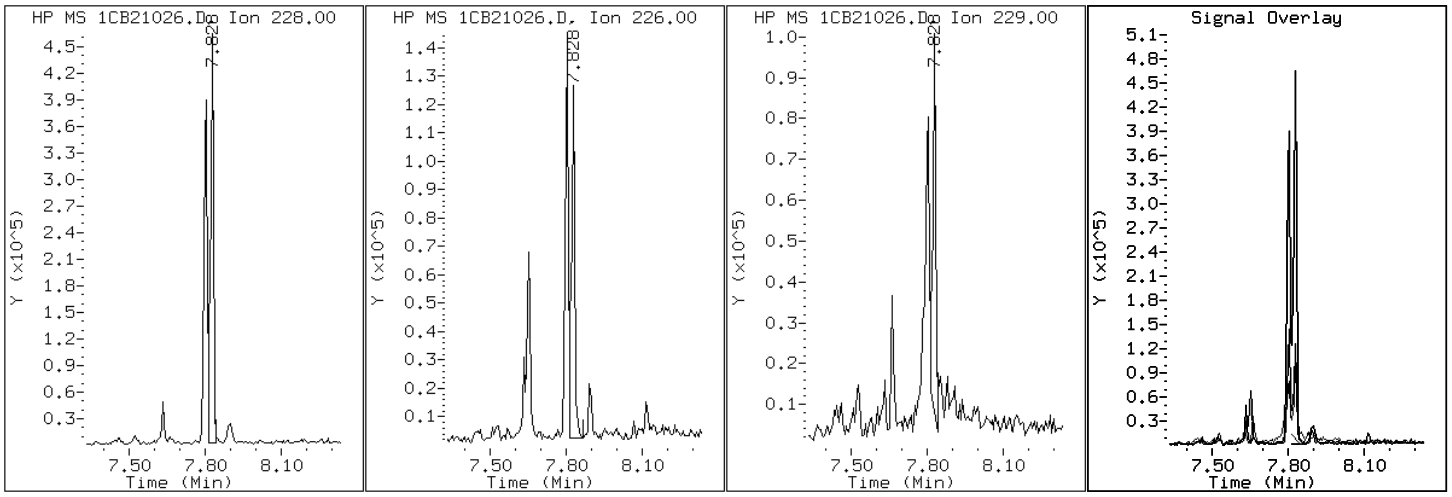
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

19 Chrysene



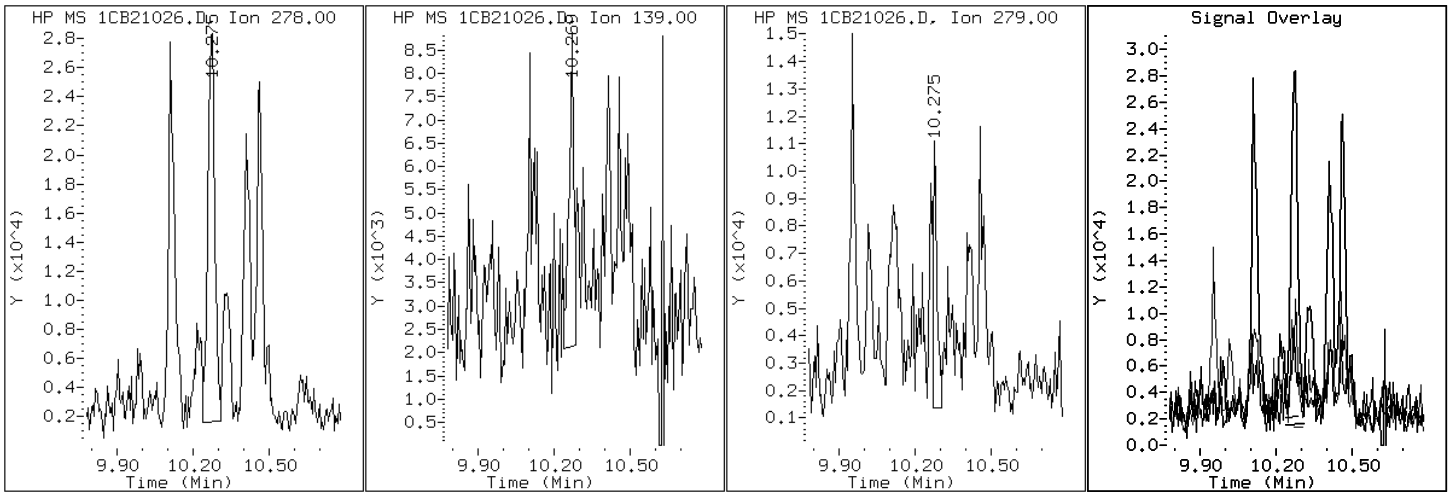
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

25 Dibenzo(a,h)anthracene



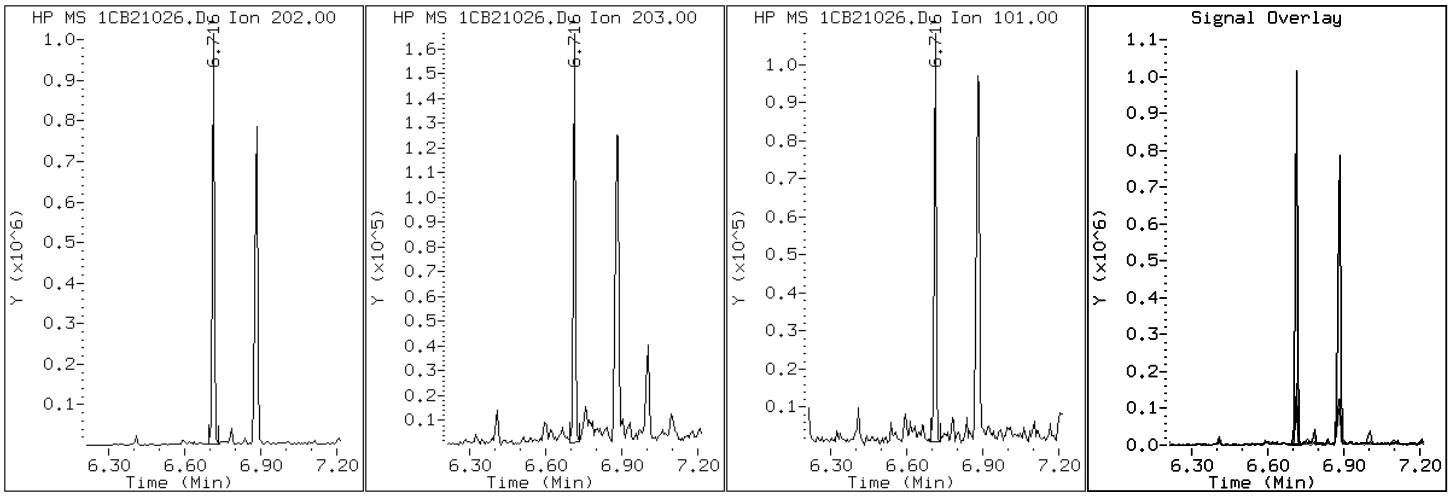
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

15 Fluoranthene



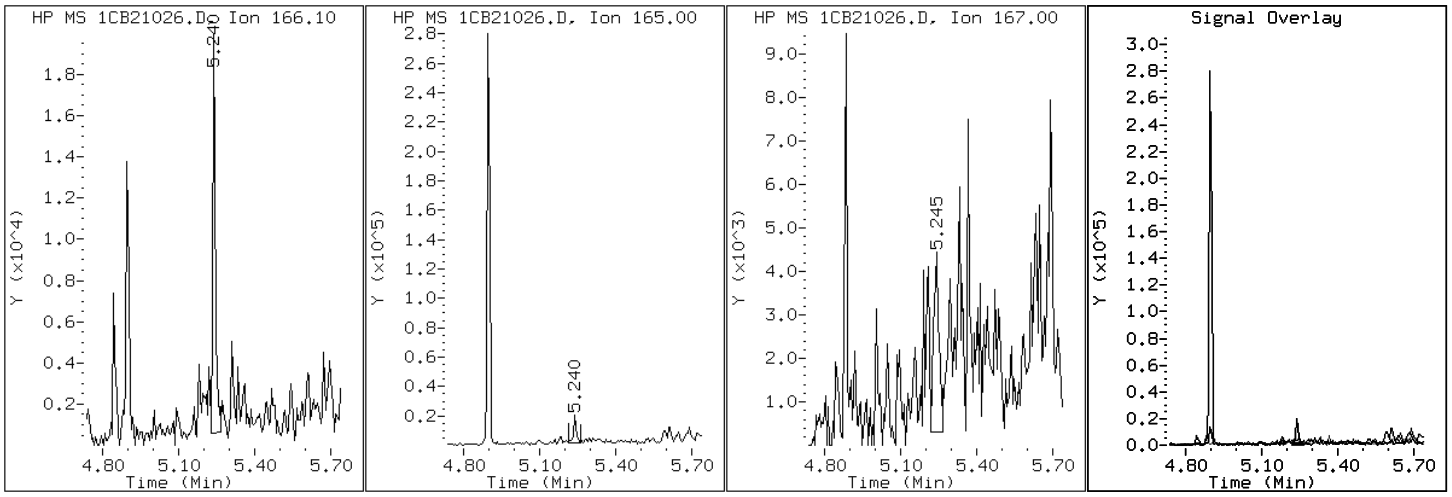
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

9 Fluorene



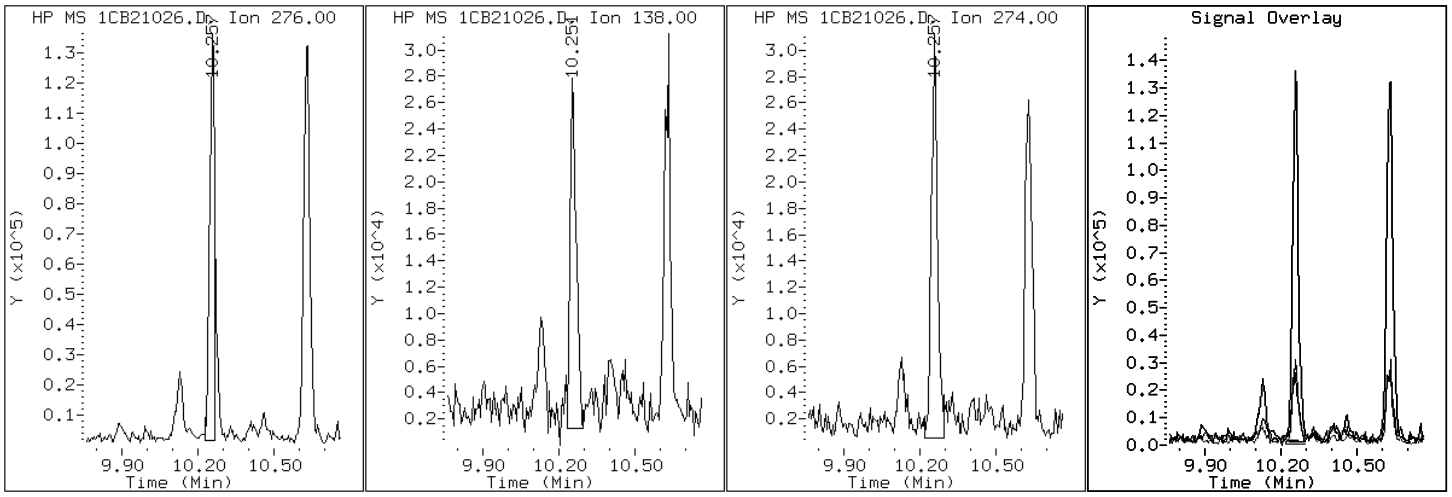
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

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



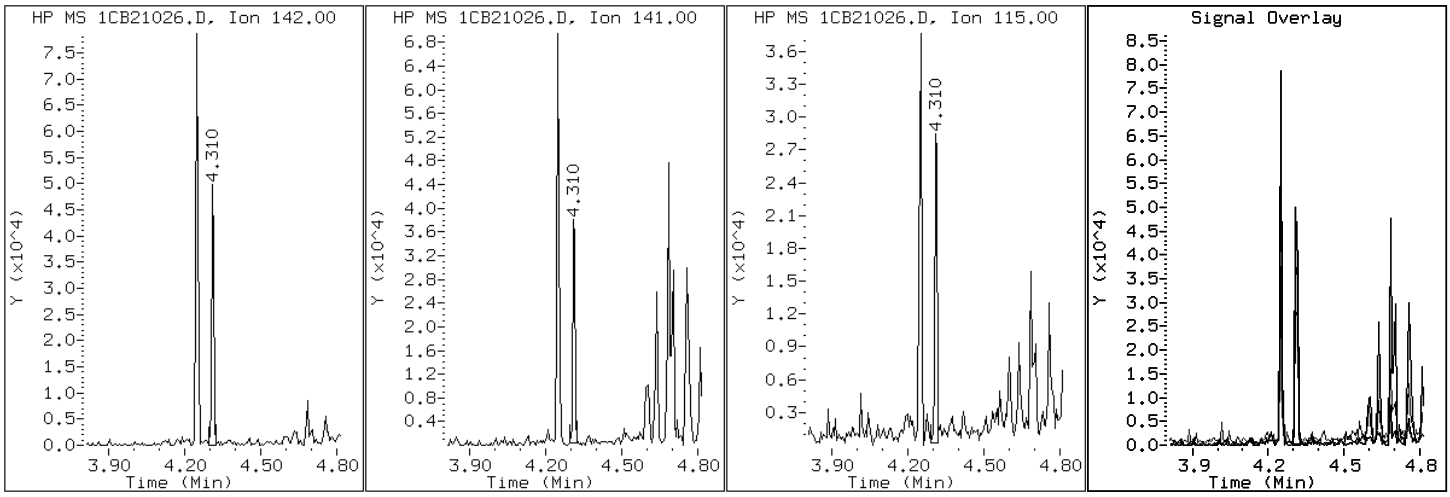
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

4 1-Methylnaphthalene



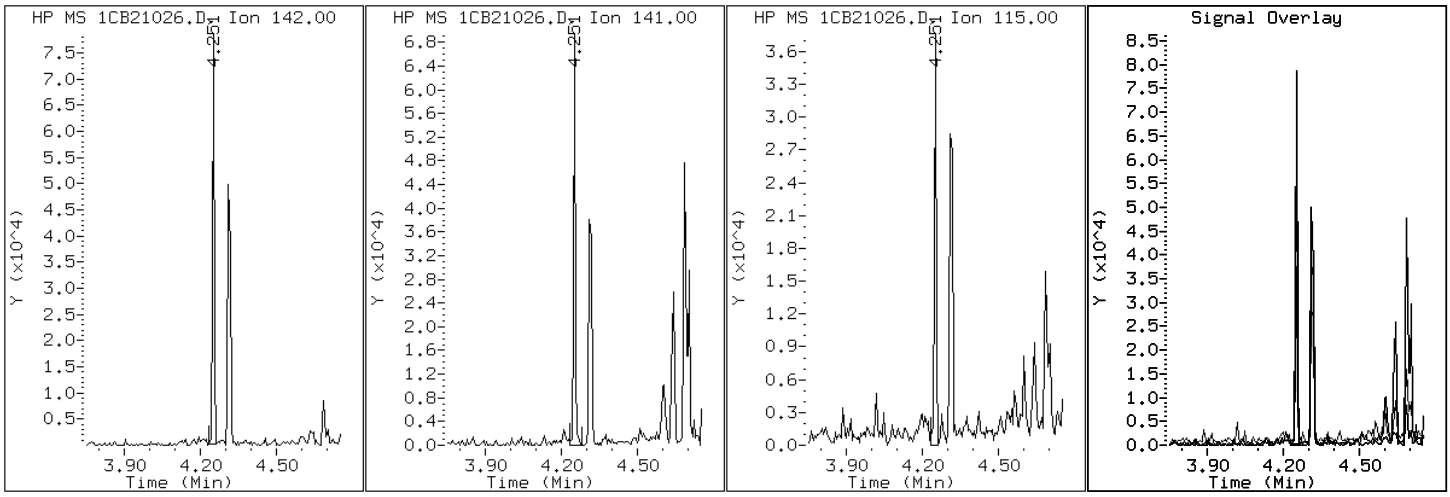
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

3 2-Methylnaphthalene



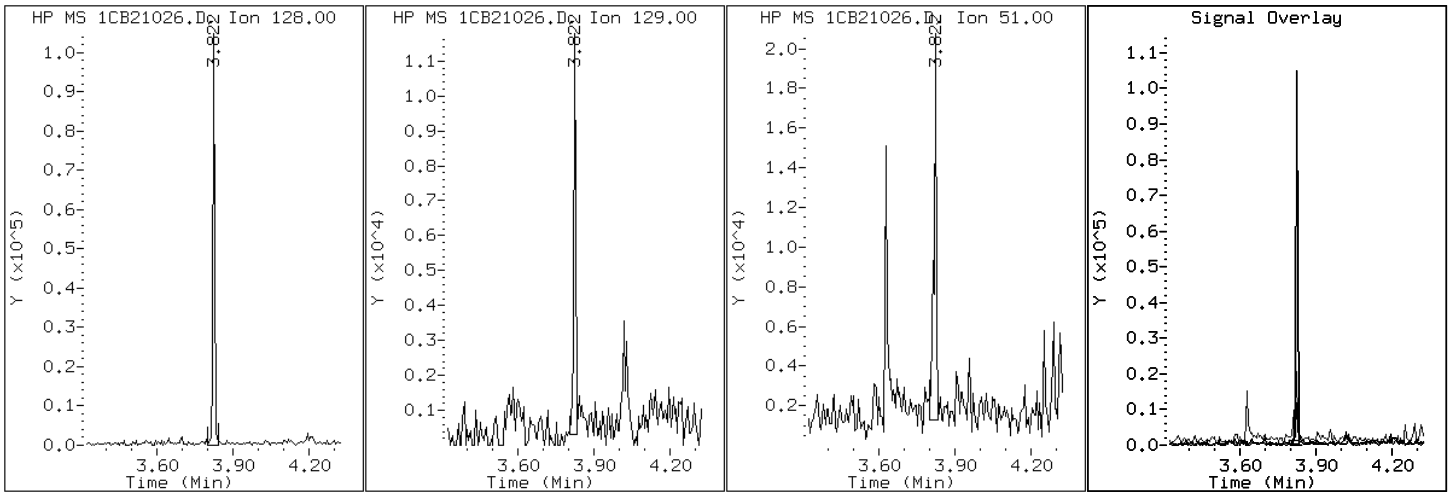
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

2 Naphthalene



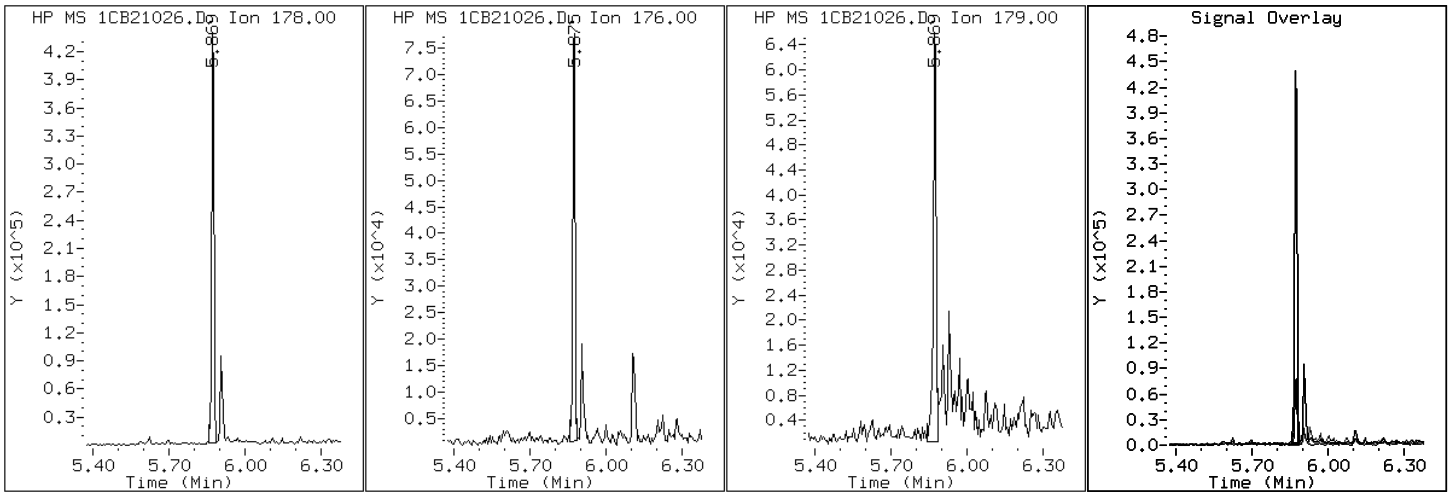
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

11 Phenanthrene



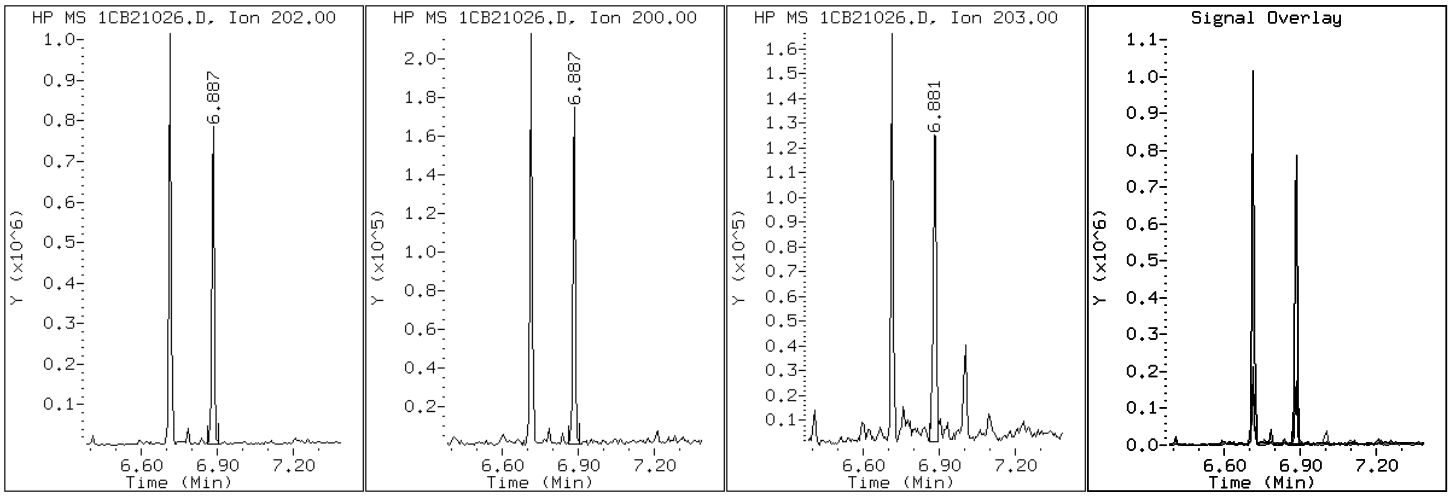
Data File: 1CB21026.D

Date: 21-FEB-2013 18:49

Client ID: CV0971VV-CSD Instrument: BSMC5973.i

Sample Info: 680-87496-a-42-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21026.D
Inj. Date and Time: 21-FEB-2013 18:49
Instrument ID: BSMC5973.i
Client ID: CV0971VV-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/22/2013

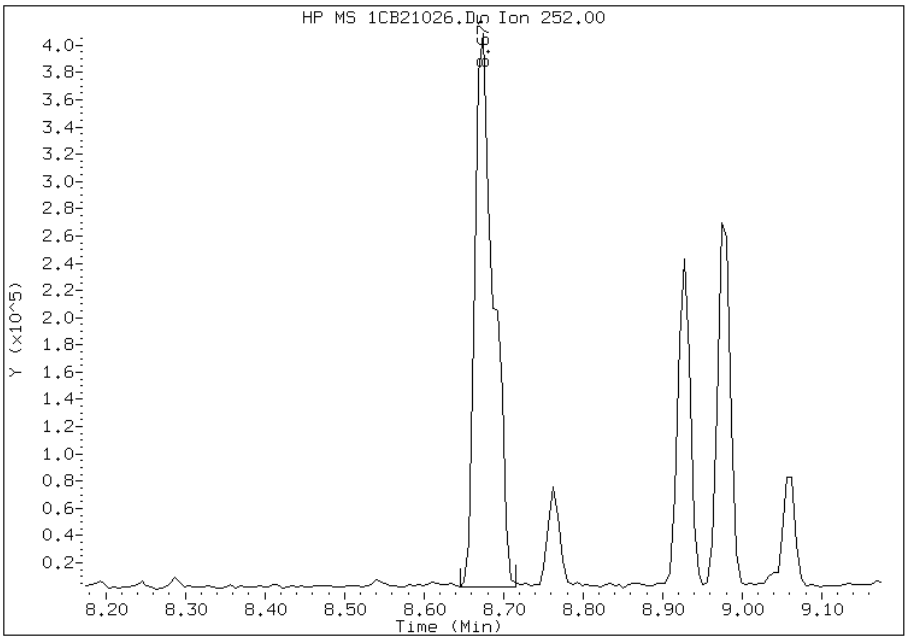
Processing Integration Results

RT: 8.67

Response: 667412

Amount: 12

Conc: 891



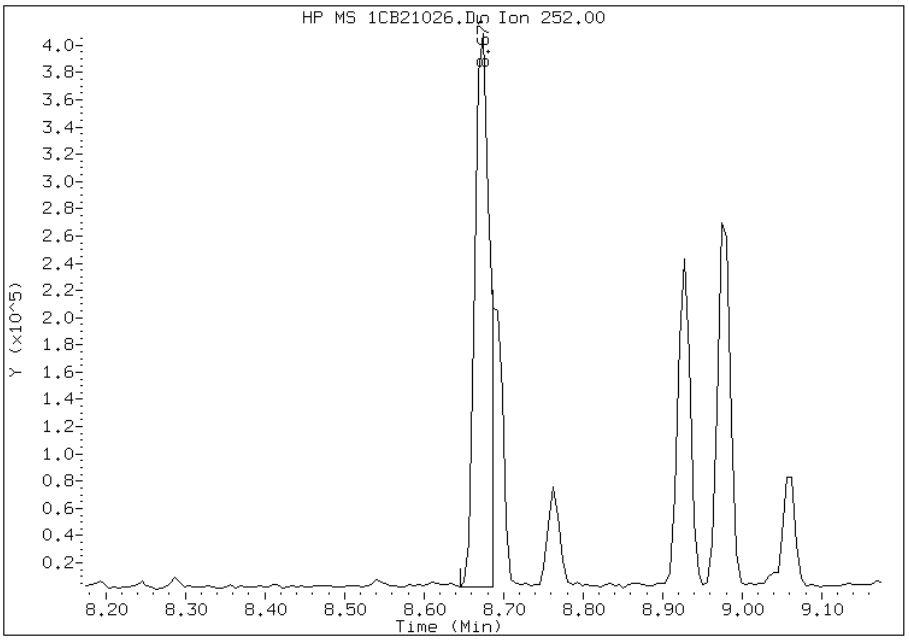
Manual Integration Results

RT: 8.67

Response: 526996

Amount: 9

Conc: 703



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB21026.D
Inj. Date and Time: 21-FEB-2013 18:49
Instrument ID: BSMC5973.i
Client ID: CV0971VV-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/22/2013

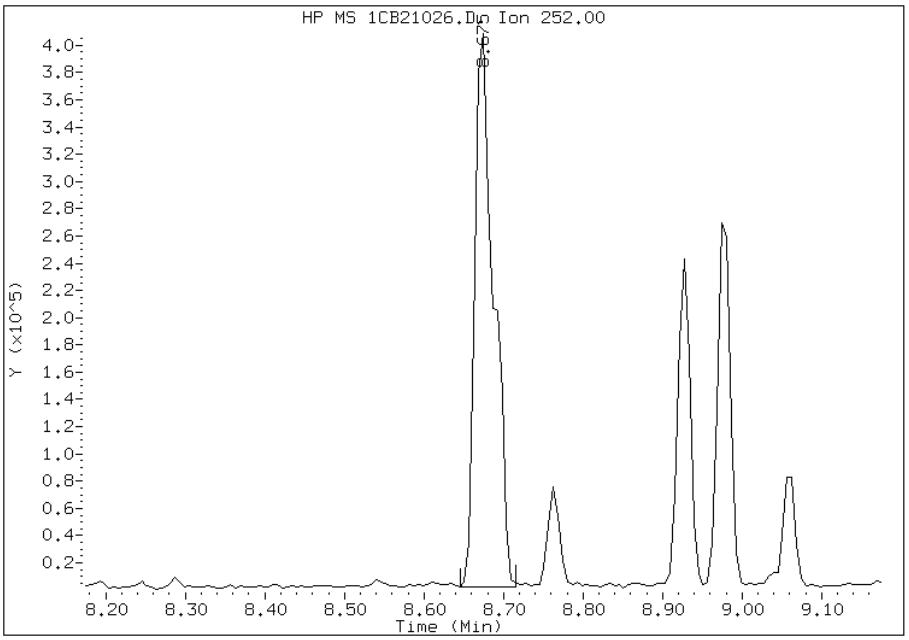
Processing Integration Results

RT: 8.67

Response: 667412

Amount: 11

Conc: 809



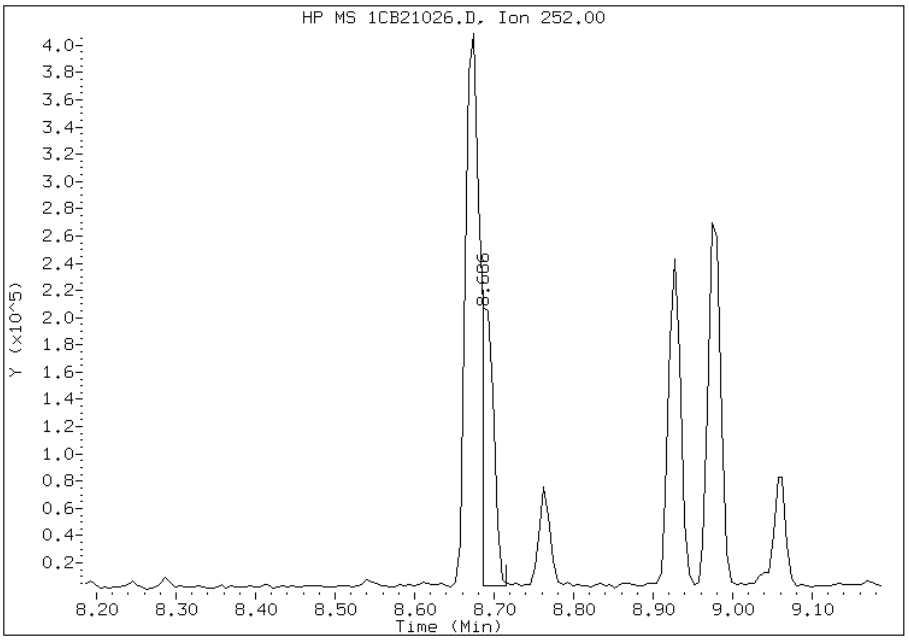
Manual Integration Results

RT: 8.69

Response: 212232

Amount: 3

Conc: 257



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:19
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21026.D
Inj. Date and Time: 21-FEB-2013 18:49
Instrument ID: BSMC5973.i
Client ID: CV0971VV-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

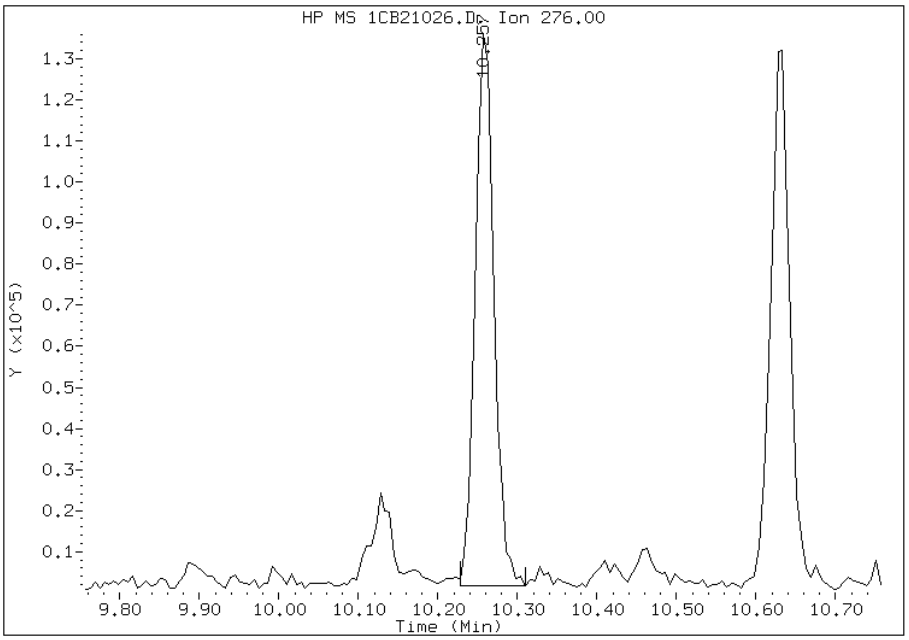
Processing Integration Results

RT: 10.26

Response: 219342

Amount: 4

Conc: 320



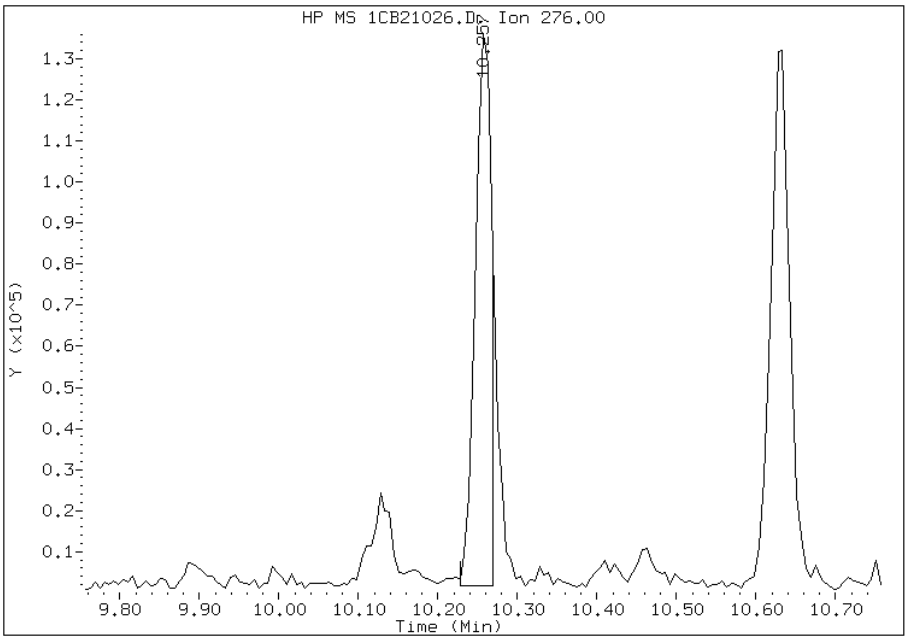
Manual Integration Results

RT: 10.26

Response: 190475

Amount: 4

Conc: 278



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 10:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: CV0971WW-CS | Lab Sample ID: 680-87496-43

Matrix: Solid | Lab File ID: 1CB21027.D

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

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.24(g) | Date Analyzed: 02/21/2013 19:08

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

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

% Moisture: 21.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	34	J	130	25
208-96-8	Acenaphthylene	54		50	6.3
120-12-7	Anthracene	230		11	5.3
56-55-3	Benzo[a]anthracene	890		10	4.9
50-32-8	Benzo[a]pyrene	770		13	6.5
205-99-2	Benzo[b]fluoranthene	1100		15	7.7
191-24-2	Benzo[g,h,i]perylene	440		25	5.5
207-08-9	Benzo[k]fluoranthene	430		10	4.5
218-01-9	Chrysene	710		11	5.7
53-70-3	Dibenz(a,h)anthracene	130		25	5.2
206-44-0	Fluoranthene	1700		25	5.0
86-73-7	Fluorene	38		25	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	380		25	8.9
90-12-0	1-Methylnaphthalene	14	J	50	5.5
91-57-6	2-Methylnaphthalene	26	J	50	8.9
91-20-3	Naphthalene	31	J	50	5.5
85-01-8	Phenanthrene	700		10	4.9
129-00-0	Pyrene	1500		25	4.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21027.D
Lab Smp Id: 680-87496-A-43-A Client Smp ID: CV0971WW-CS
Inj Date : 21-FEB-2013 19:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-43-a
Misc Info : 680-87496-A-43-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 27
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	15.240	Weight Extracted
M	21.705	% 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	3.810	3.810	(1.000)	1689567	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1306505	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2430001	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	276700	7.77137	651.2995
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2474074	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2295512	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	16793	0.37508	31.4348
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	9006	0.30936	25.9270
4 1-Methylnaphthalene	142	4.316	4.315	(1.133)	4429	0.16728	14.0194(Q)
5 Acenaphthylene	152	4.816	4.815	(0.983)	33378	0.64215	53.8172
7 Acenaphthene	154	4.921	4.921	(1.005)	13319	0.40856	34.2402
9 Fluorene	166	5.239	5.239	(1.070)	19034	0.45485	38.1194
11 Phenanthrene	178	5.874	5.874	(1.003)	609668	8.40529	704.4267
12 Anthracene	178	5.904	5.904	(1.008)	176091	2.69455	225.8239

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	(1.027)	19040	0.33542	28.1105
15 Fluoranthene	202	6.715	6.715	(1.147)	1434544	20.2403	1696.2897
16 Pyrene	202	6.886	6.886	(0.882)	1188994	18.0517	1512.8731
17 Benzo(a)anthracene	228	7.804	7.803	(0.999)	720754	10.5642	885.3611
19 Chrysene	228	7.827	7.833	(1.002)	595696	8.45273	708.4025
20 Benzo(b)fluoranthene	252	8.674	8.668	(0.960)	725145	12.8849	1079.8563(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	314832	5.07792	425.5680(QM)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	492879	9.20373	771.3421
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	232380	4.51788	378.6323(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	75709	1.56086	130.8117
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	275691	5.27655	442.2147

QC Flag Legend

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

Data File: 1CB21027.D

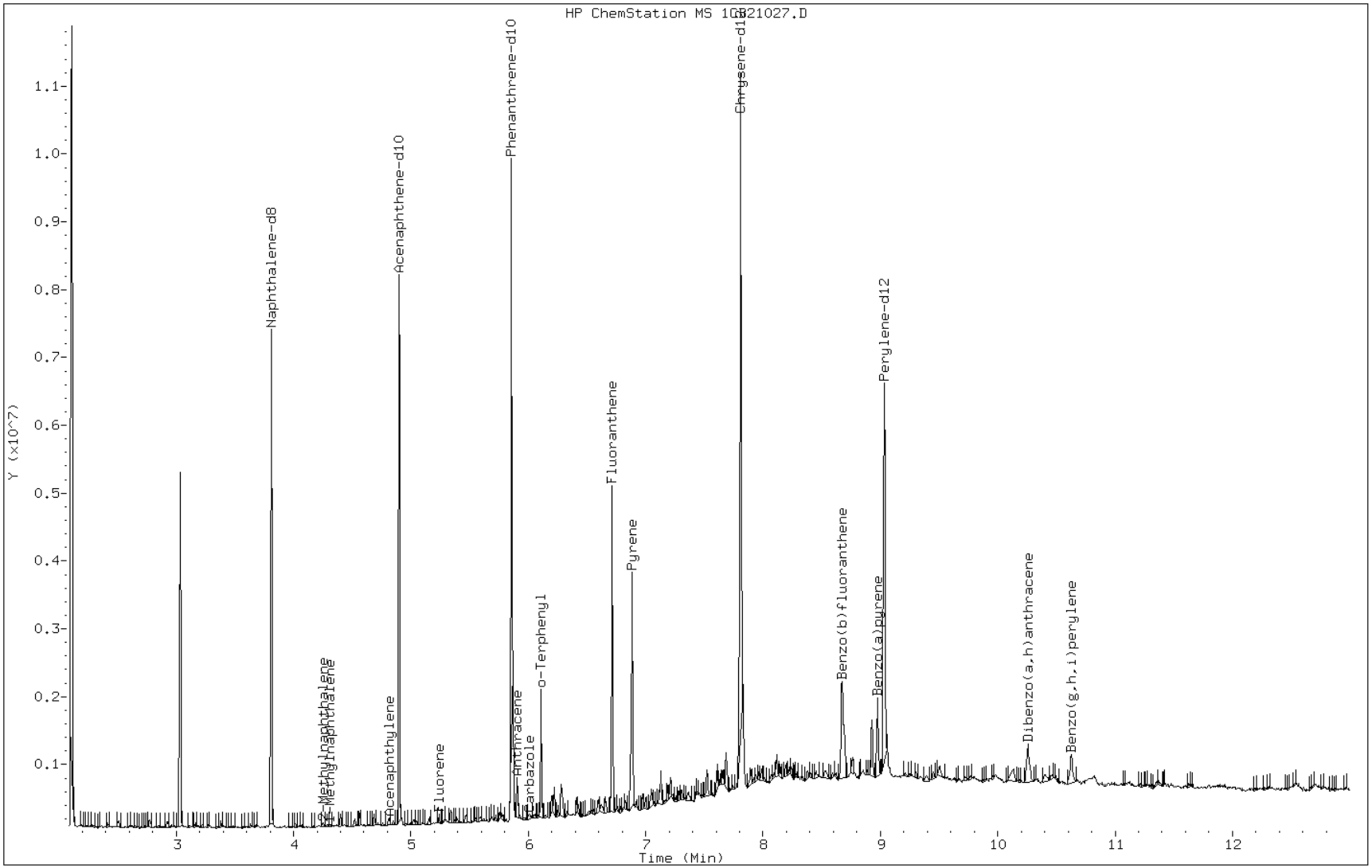
Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a

Operator: SCC



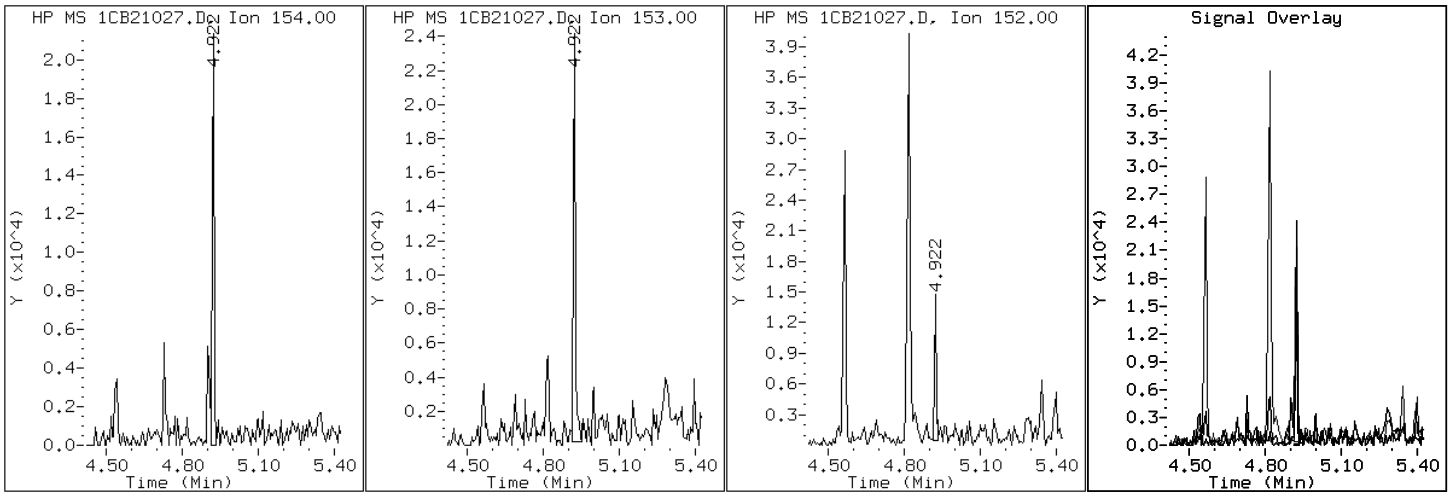
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

7 Acenaphthene



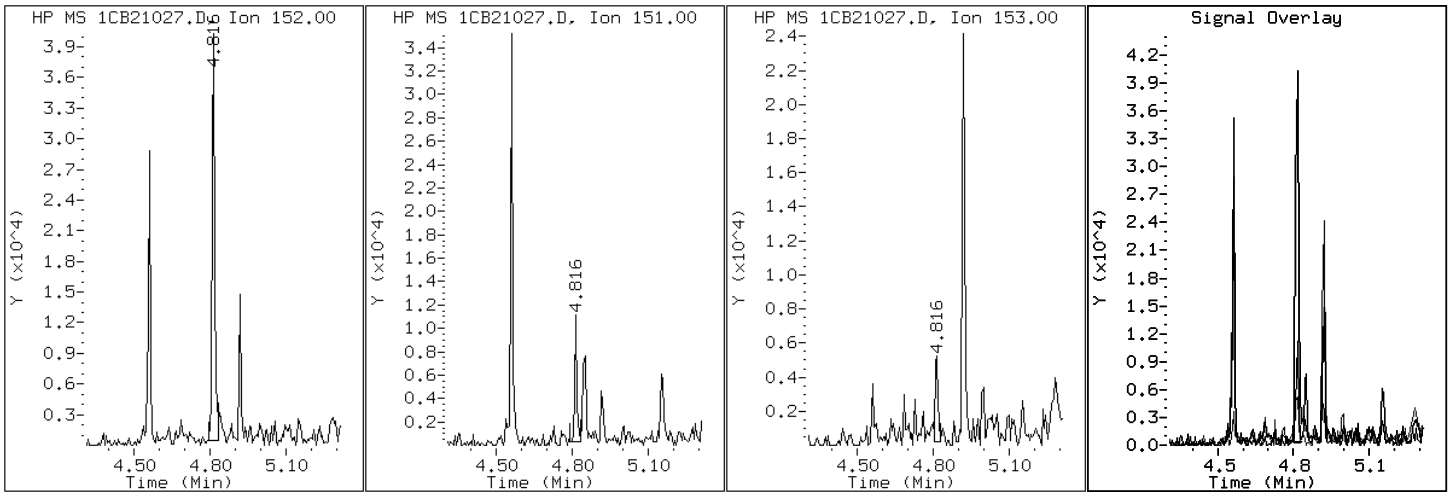
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

5 Acenaphthylene



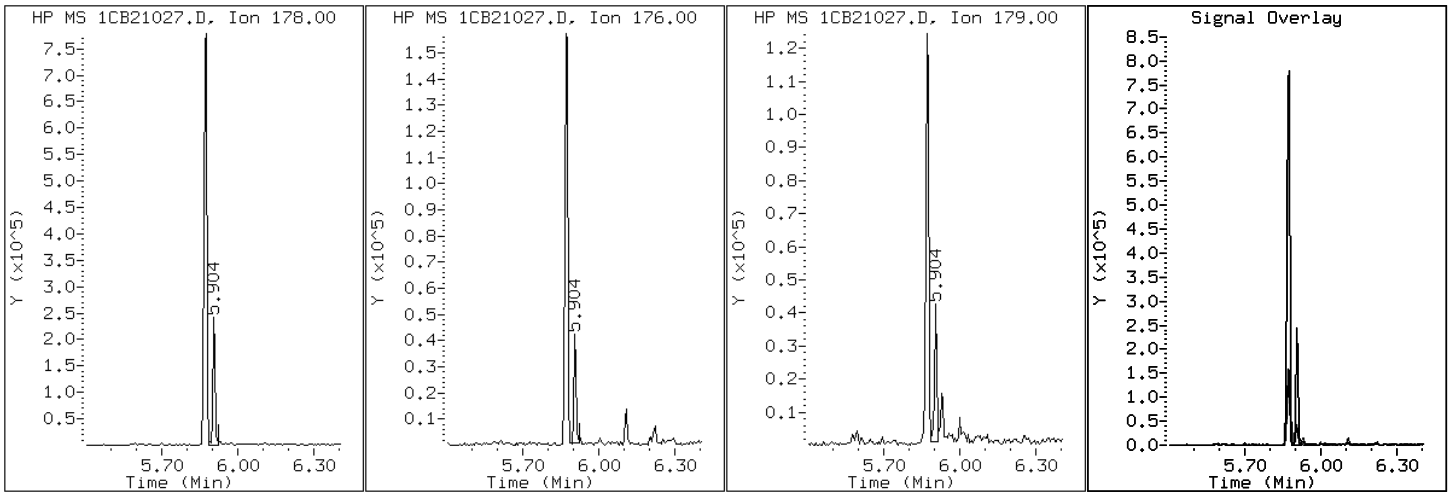
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

12 Anthracene



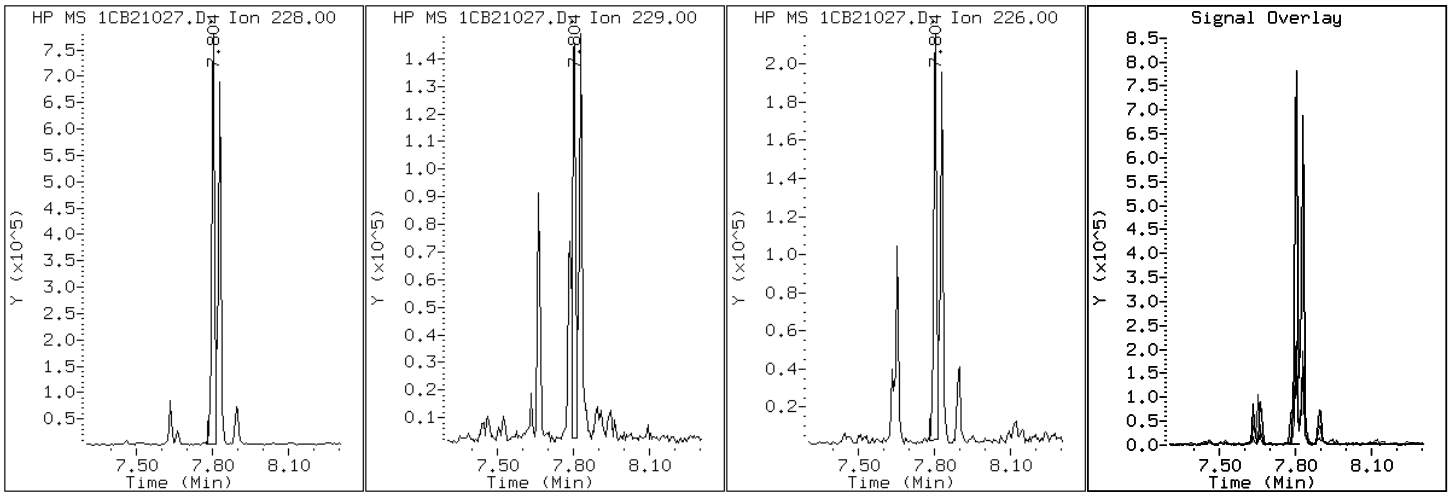
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

17 Benzo(a)anthracene



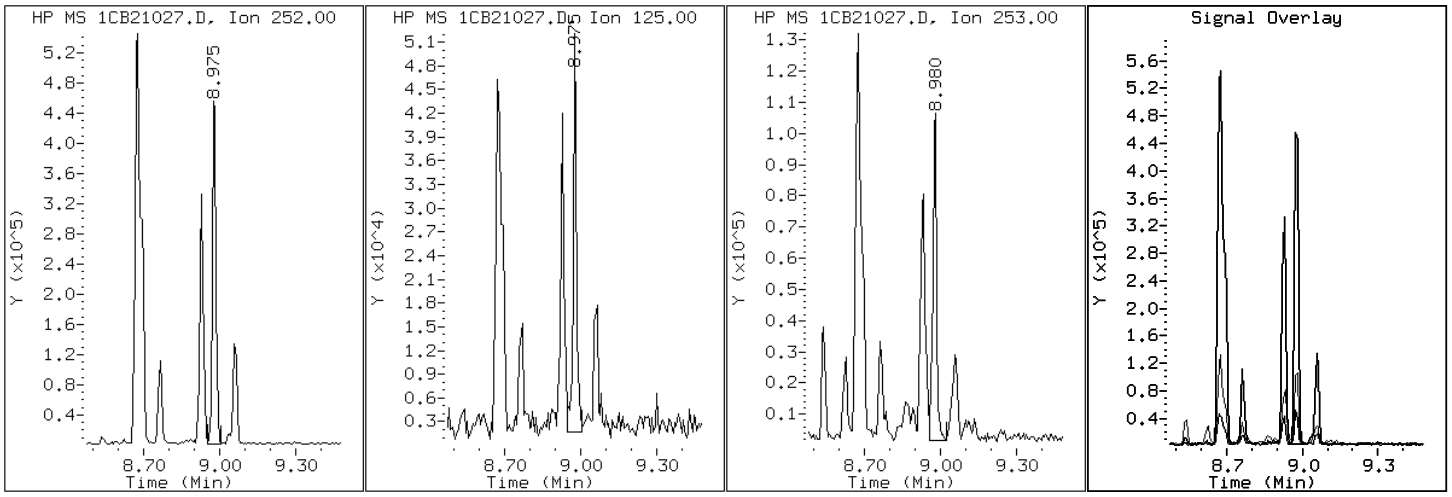
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

22 Benzo(a)pyrene



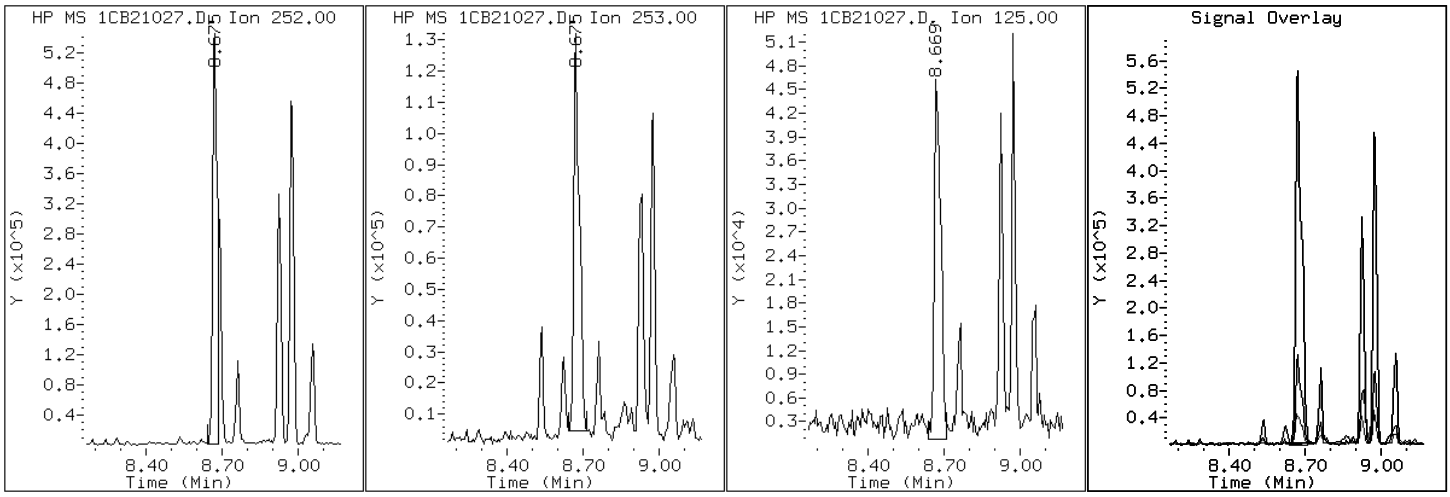
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

20 Benzo(b)fluoranthene



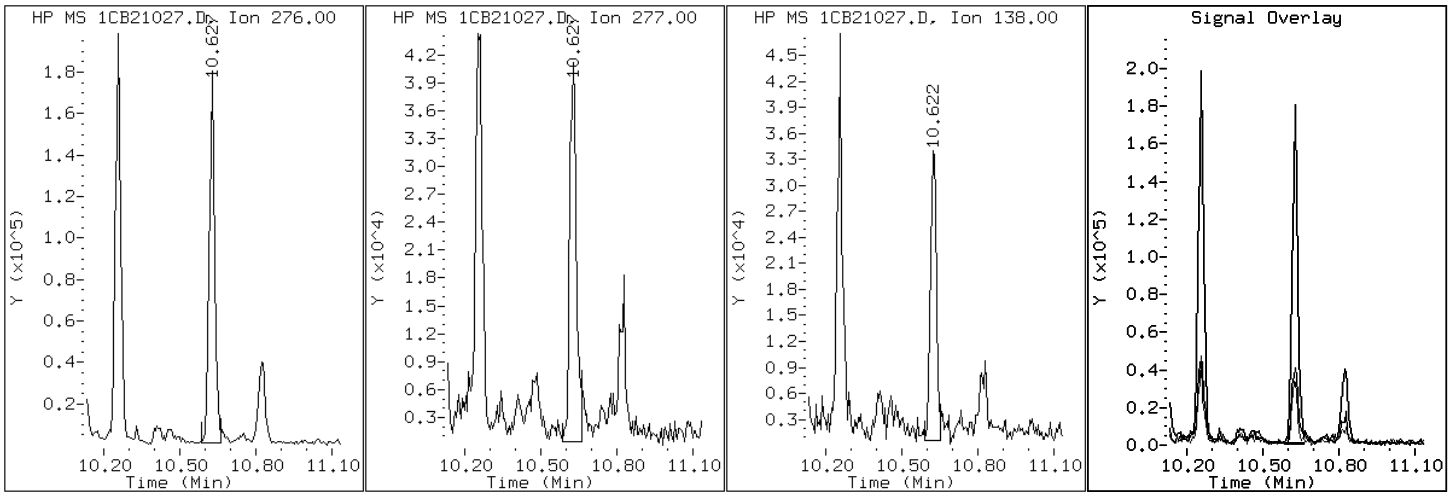
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

26 Benzo(g,h,i)perylene



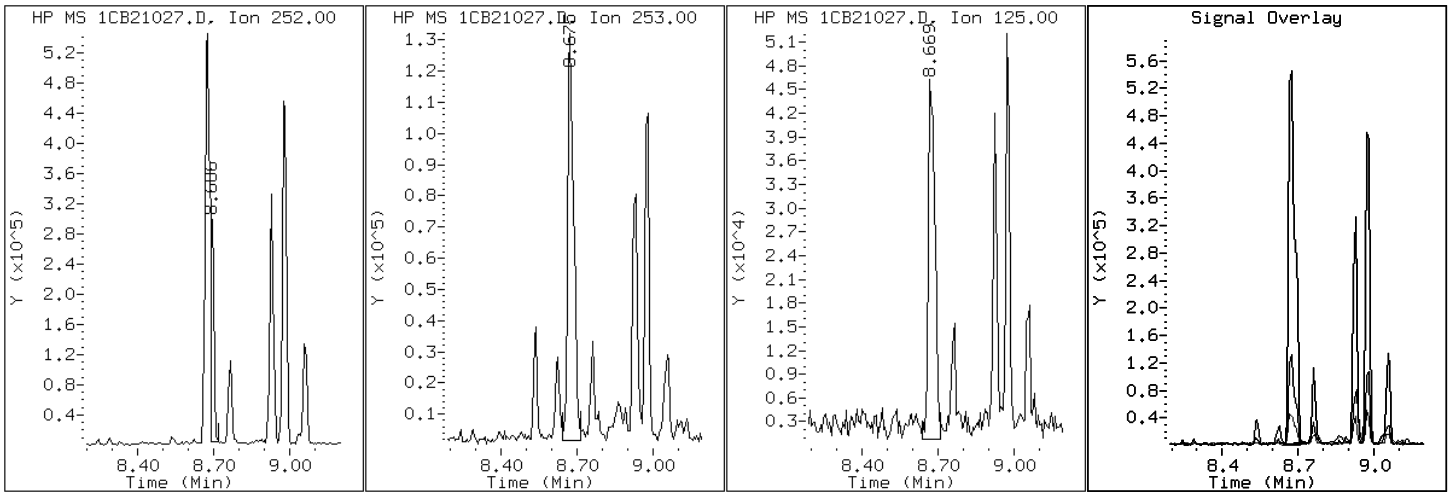
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

21 Benzo(k)fluoranthene



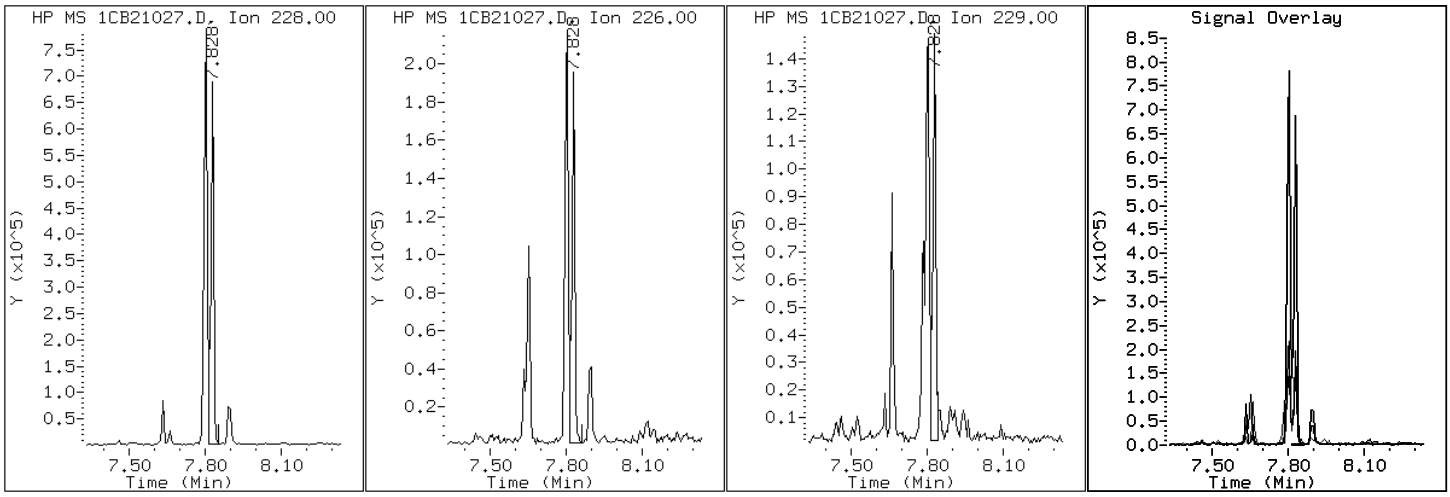
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

19 Chrysene



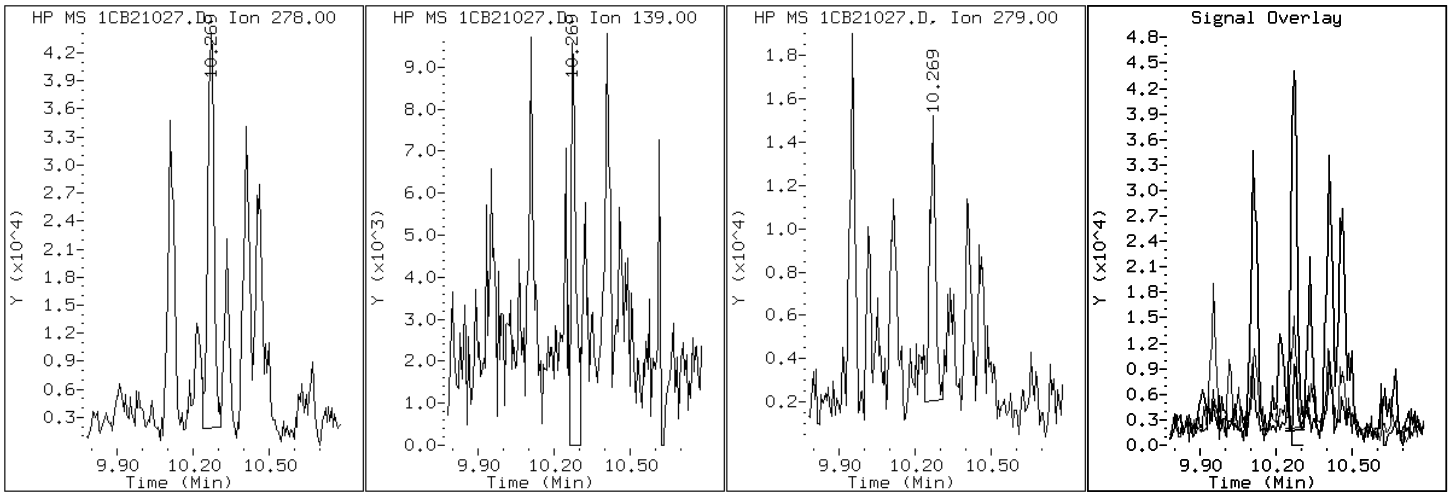
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

25 Dibenzo(a,h)anthracene



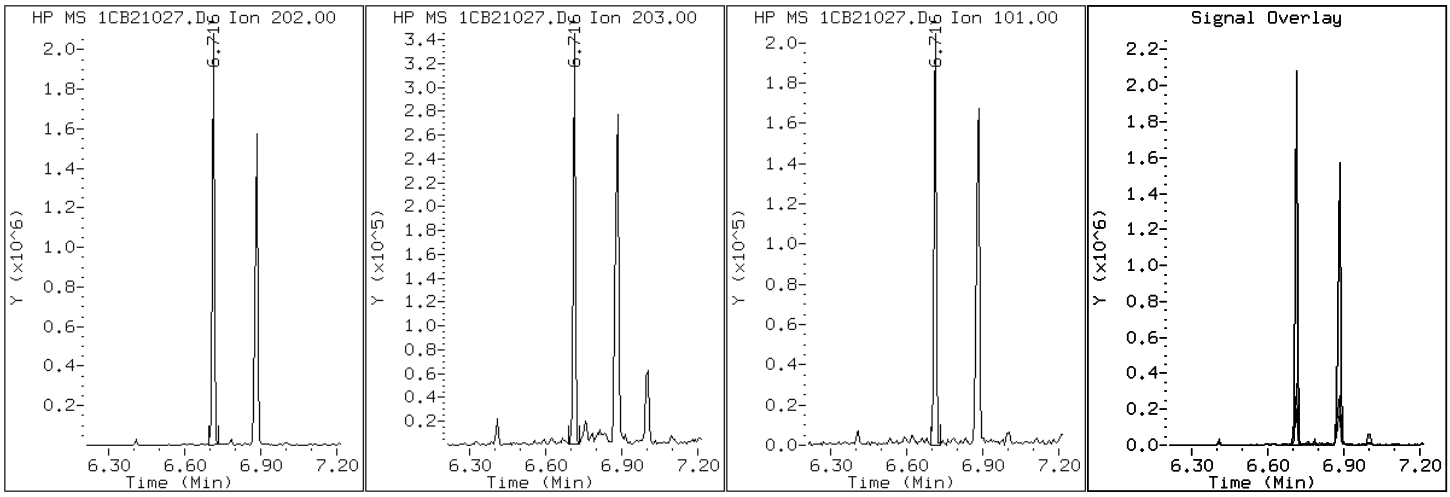
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

15 Fluoranthene



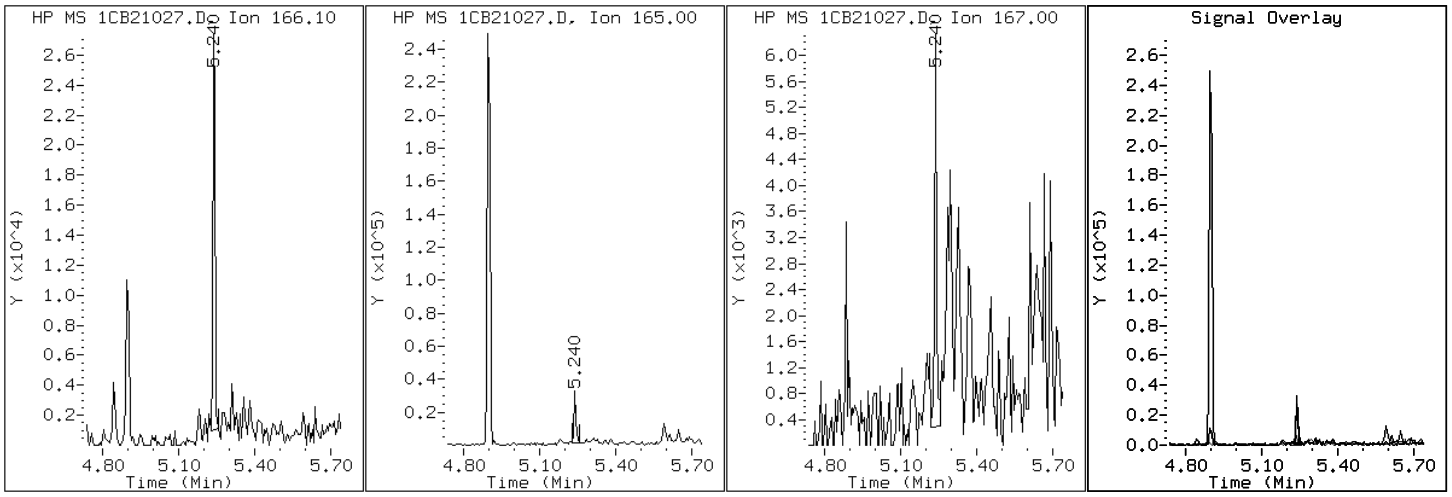
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

9 Fluorene



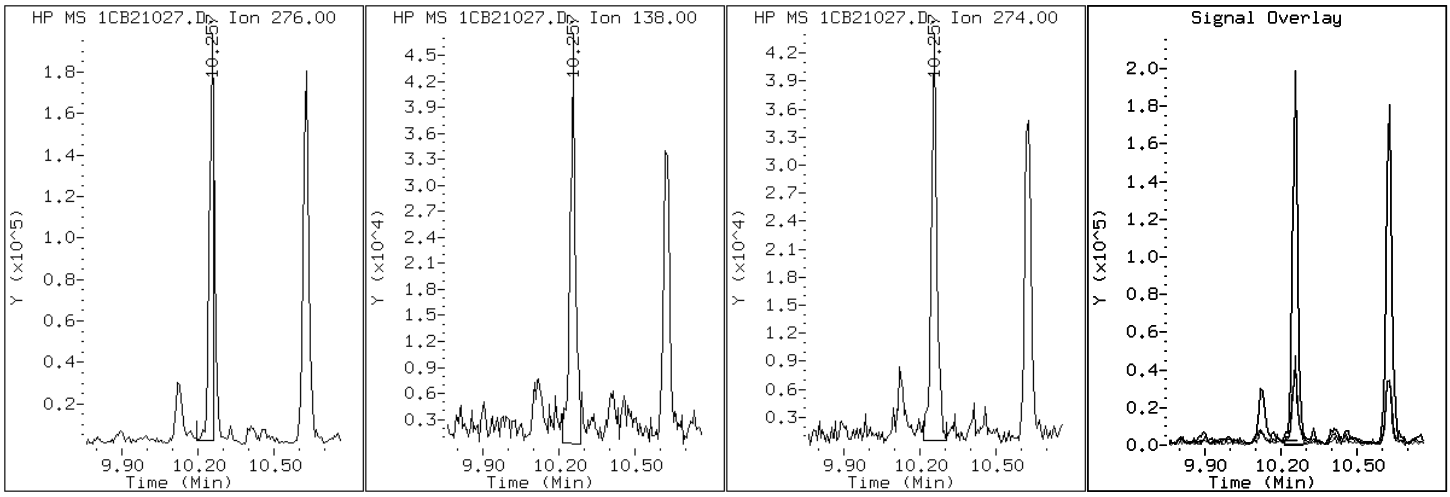
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

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



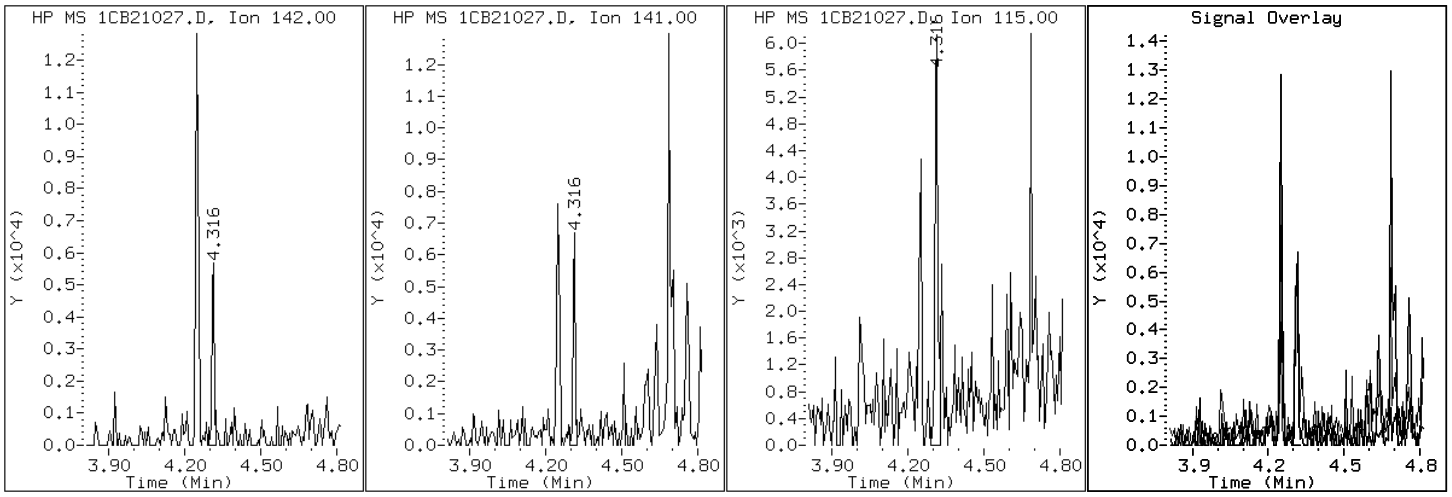
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

4 1-Methylnaphthalene



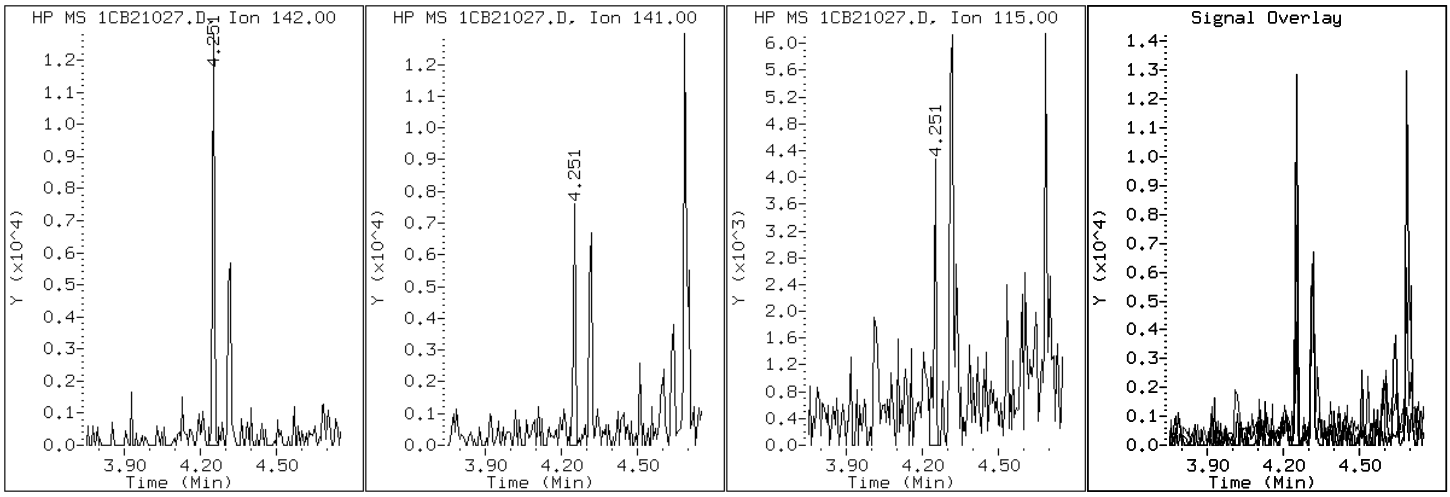
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

3 2-Methylnaphthalene



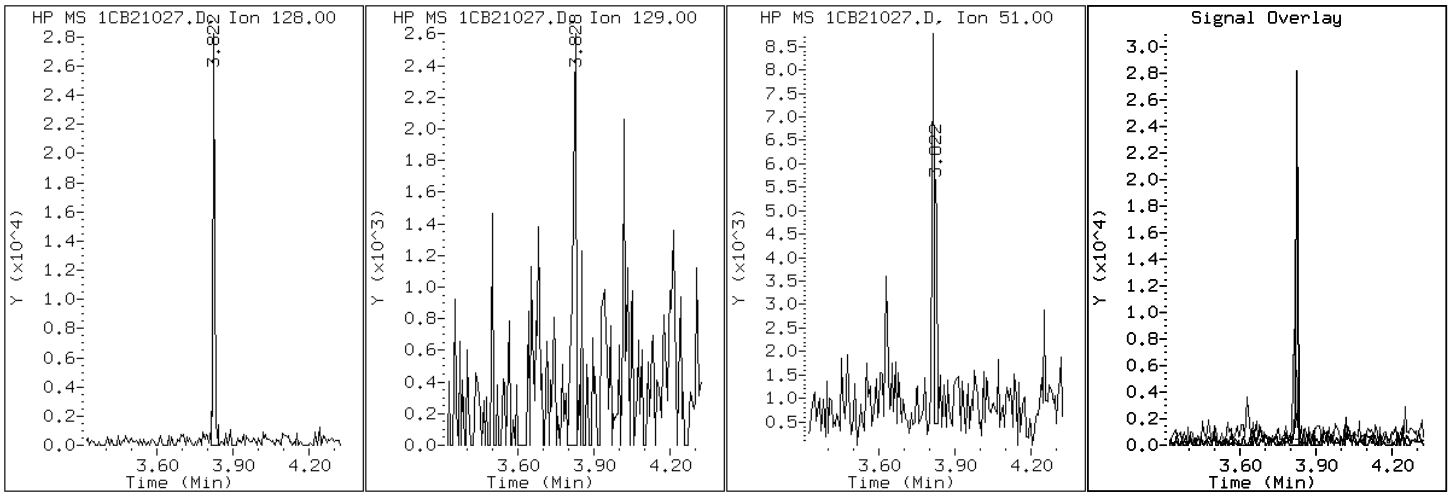
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

2 Naphthalene



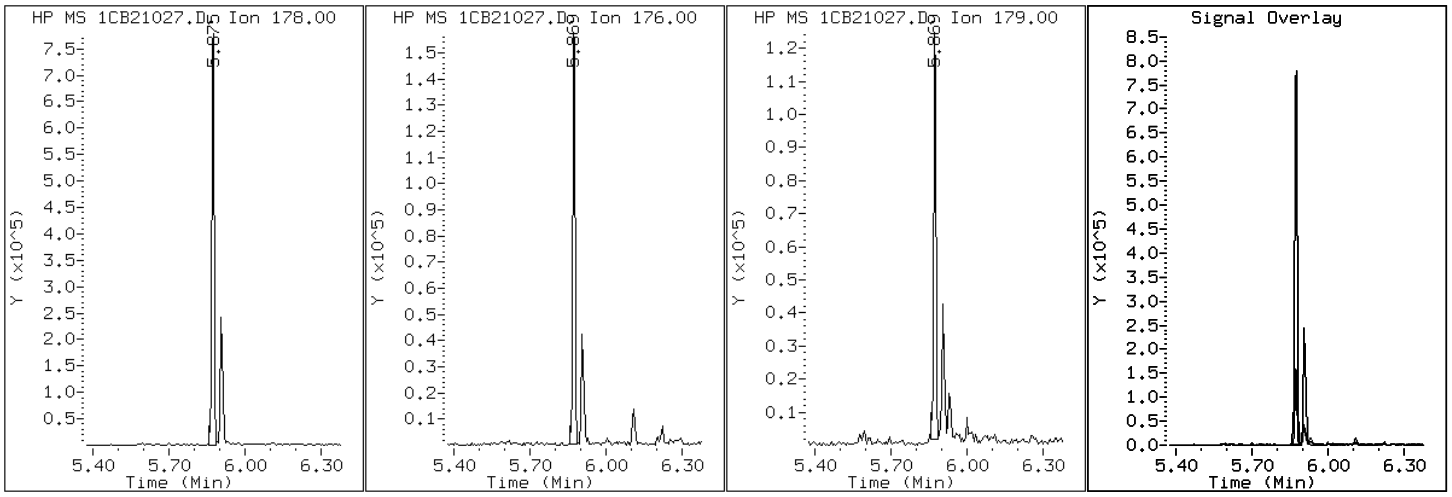
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

11 Phenanthrene



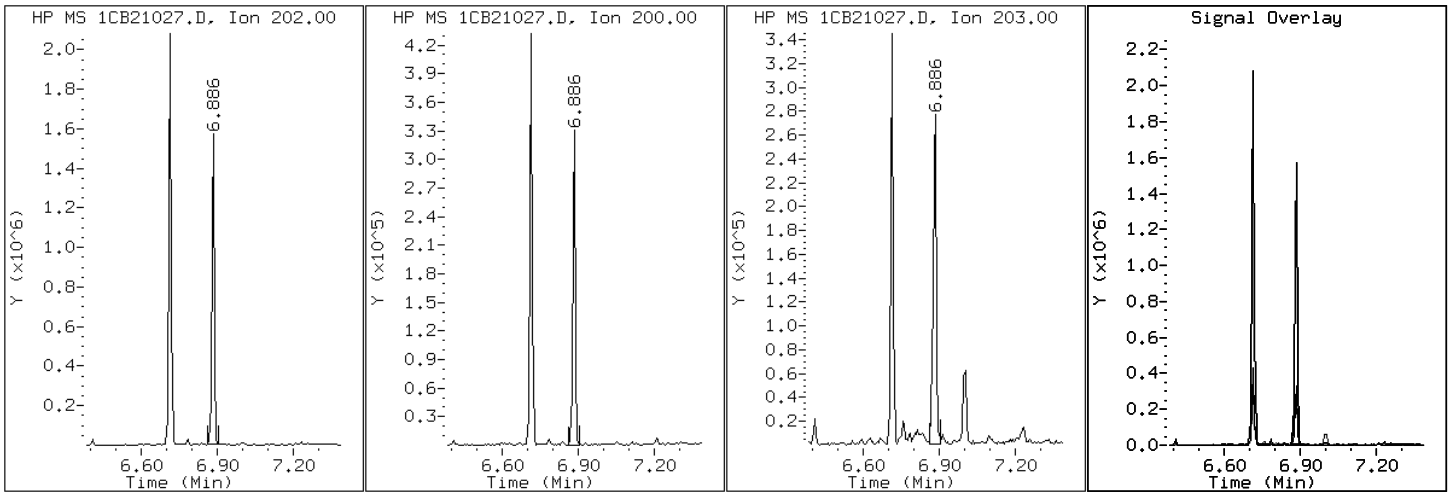
Data File: 1CB21027.D

Date: 21-FEB-2013 19:08

Client ID: CV0971WW-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-43-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21027.D
Inj. Date and Time: 21-FEB-2013 19:08
Instrument ID: BSMC5973.i
Client ID: CV0971WW-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/22/2013

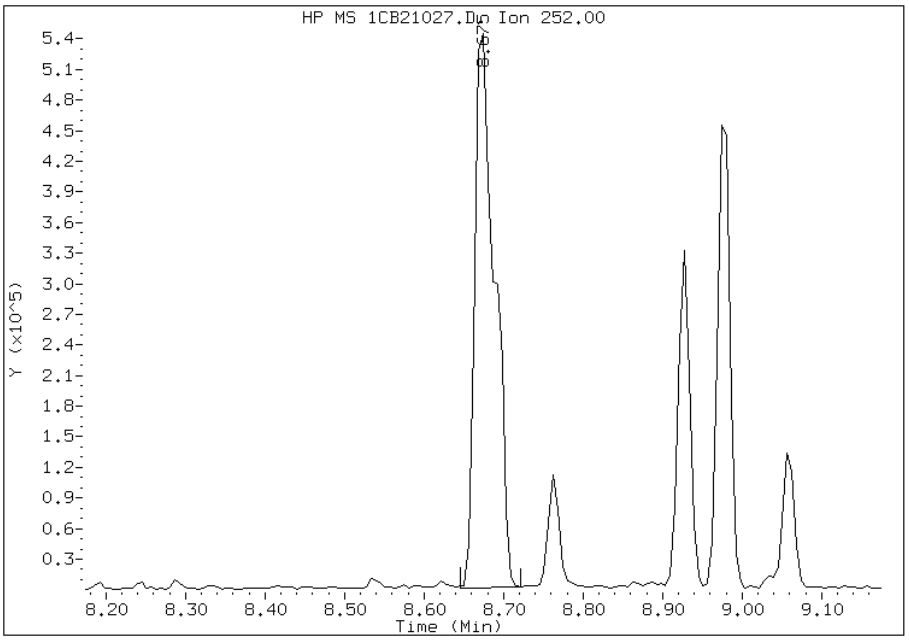
Processing Integration Results

RT: 8.67

Response: 939758

Amount: 17

Conc: 1399



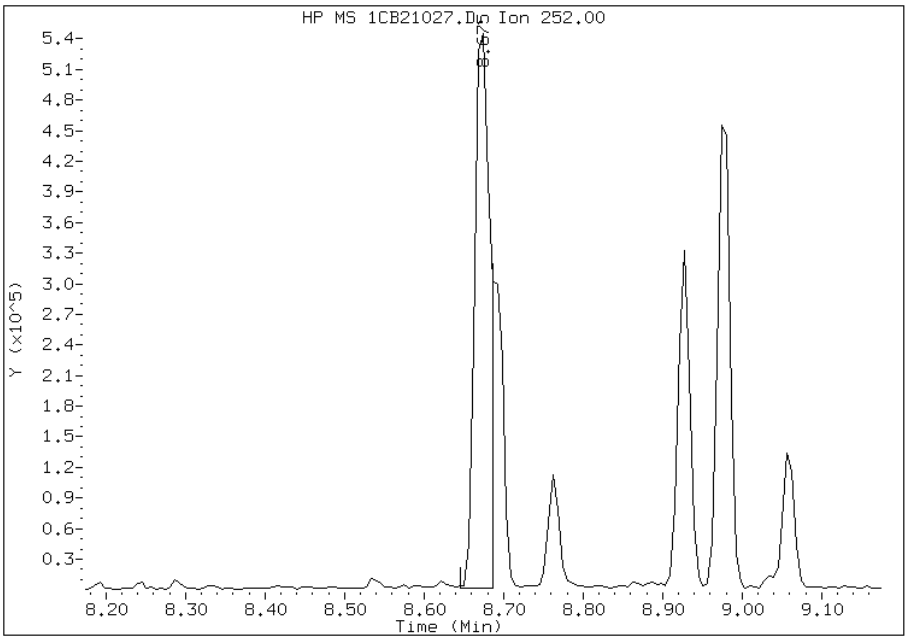
Manual Integration Results

RT: 8.67

Response: 725145

Amount: 13

Conc: 1080



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

Manual Integration Report

Data File: 1CB21027.D
Inj. Date and Time: 21-FEB-2013 19:08
Instrument ID: BSMC5973.i
Client ID: CV0971WW-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/22/2013

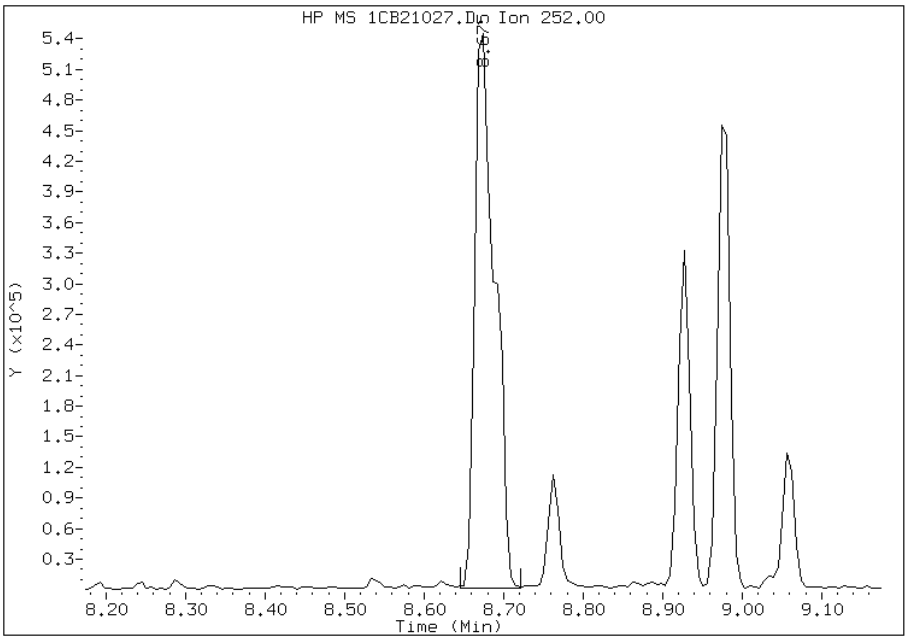
Processing Integration Results

RT: 8.67

Response: 942436

Amount: 15

Conc: 1274



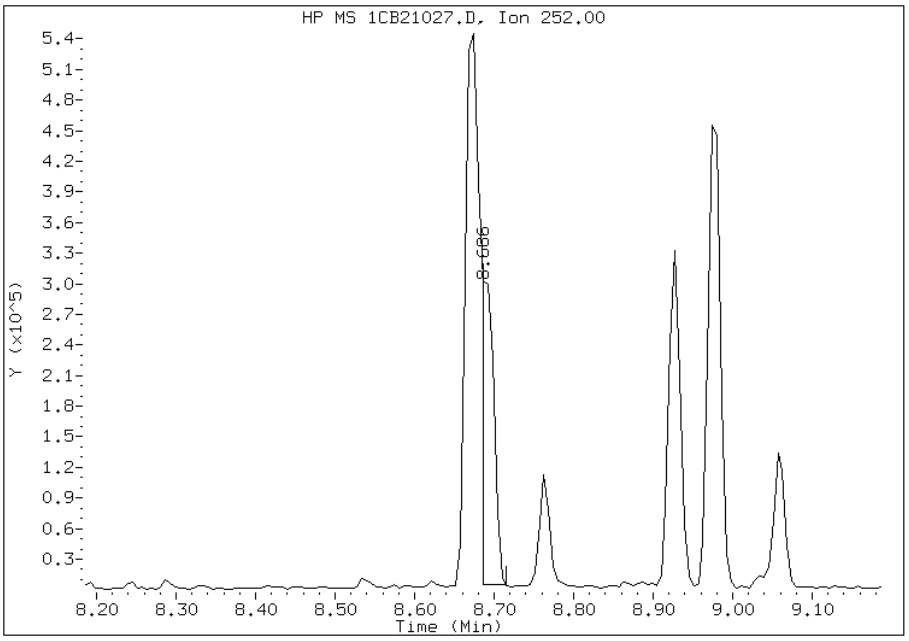
Manual Integration Results

RT: 8.69

Response: 314832

Amount: 5

Conc: 426



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 11:11
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21027.D
Inj. Date and Time: 21-FEB-2013 19:08
Instrument ID: BSMC5973.i
Client ID: CV0971WW-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

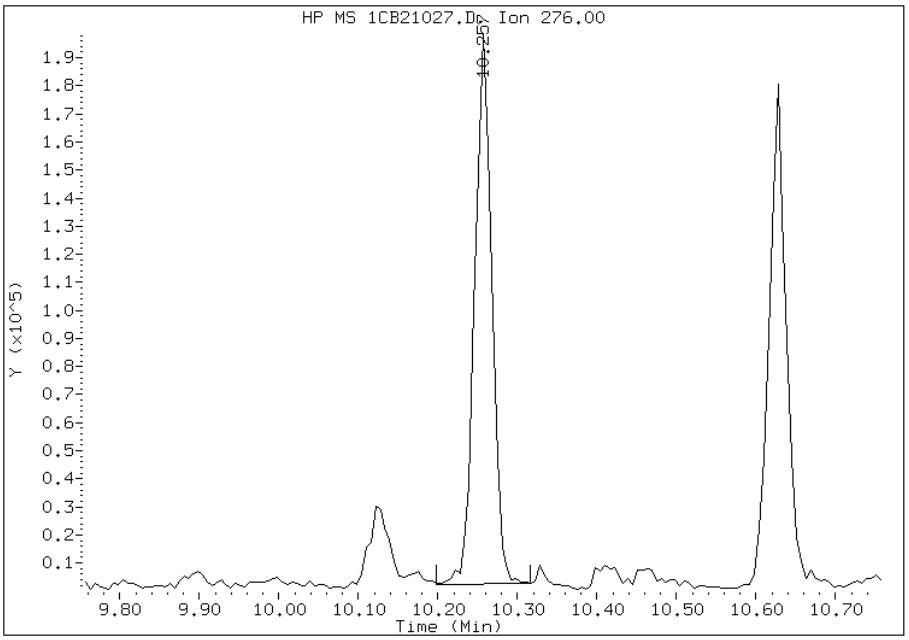
Processing Integration Results

RT: 10.26

Response: 290775

Amount: 6

Conc: 474



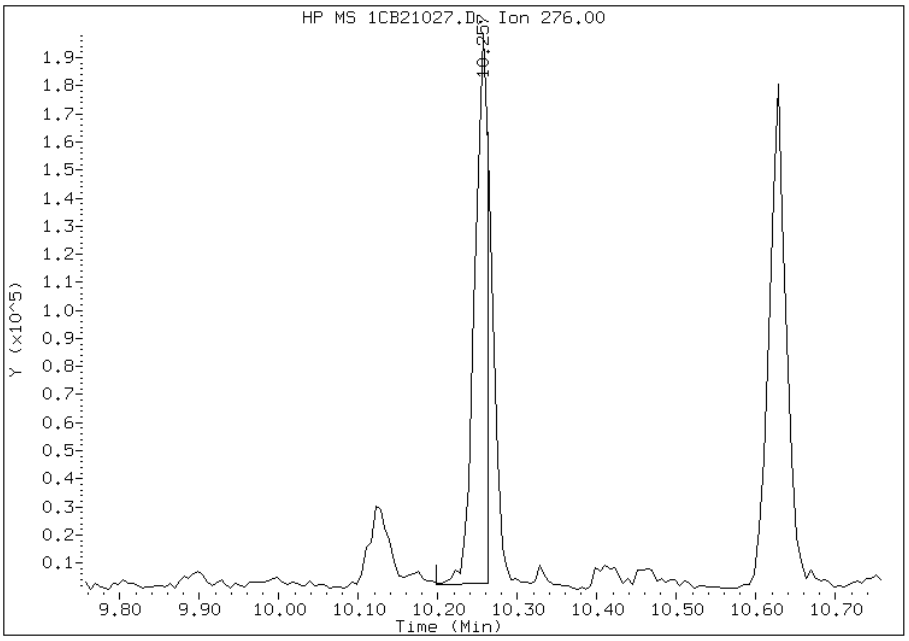
Manual Integration Results

RT: 10.26

Response: 232380

Amount: 5

Conc: 379



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: CV0971XX-CS | Lab Sample ID: 680-87496-44

Matrix: Solid | Lab File ID: 1CB21028.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 14:10

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.00(g) | Date Analyzed: 02/21/2013 19:26

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

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

% Moisture: 10.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	15	J	45	5.6
120-12-7	Anthracene	19		9.4	4.7
56-55-3	Benzo[a]anthracene	110		9.0	4.4
50-32-8	Benzo[a]pyrene	110		12	5.8
205-99-2	Benzo[b]fluoranthene	190		14	6.8
191-24-2	Benzo[g,h,i]perylene	78		22	4.9
207-08-9	Benzo[k]fluoranthene	51		9.0	4.0
218-01-9	Chrysene	100		10	5.0
53-70-3	Dibenz(a,h)anthracene	25		22	4.6
206-44-0	Fluoranthene	170		22	4.5
86-73-7	Fluorene	6.2	J	22	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	59		22	8.0
90-12-0	1-Methylnaphthalene	34	J	45	4.9
91-57-6	2-Methylnaphthalene	38	J	45	8.0
91-20-3	Naphthalene	41	J	45	4.9
85-01-8	Phenanthrene	87		9.0	4.4
129-00-0	Pyrene	160		22	4.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21028.D
Lab Smp Id: 680-87496-A-44-A Client Smp ID: CV0971XX-CS
Inj Date : 21-FEB-2013 19:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-44-a
Misc Info : 680-87496-A-44-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 28
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	15.000	Weight Extracted
M	10.733	% 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	3.810	3.810	(1.000)	1824605	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1371281	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2459940	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	341025	9.46142	706.6044
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2571895	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2364255	40.0000	
2 Naphthalene	128	3.822	3.821	(1.003)	26858	0.55550	41.4858
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	16037	0.51011	38.0966
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	13139	0.45953	34.3186
5 Acenaphthylene	152	4.810	4.815	(0.982)	10956	0.20082	14.9980
9 Fluorene	166	5.245	5.239	(1.071)	3621	0.08244	6.1569(Q)
11 Phenanthrene	178	5.868	5.874	(1.002)	85209	1.16045	86.6655
12 Anthracene	178	5.904	5.904	(1.008)	16572	0.25050	18.7079
13 Carbazole	167	6.015	6.015	(1.027)	12870	0.22396	16.7262

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.715	(1.147)	167614	2.33612	174.4676
16 Pyrene	202	6.886	6.886	(0.882)	147281	2.15103	160.6444
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	102120	1.43986	107.5326
19 Chrysene	228	7.827	7.833	(1.002)	100809	1.37604	102.7663
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	145708	2.51377	187.7354(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	43834	0.68644	51.2652(QM)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	81991	1.48653	111.0183
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	42069	0.79411	59.3066(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.137)	16694	0.33417	24.9563
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	56369	1.04750	78.2299

QC Flag Legend

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

Data File: 1CB21028.D

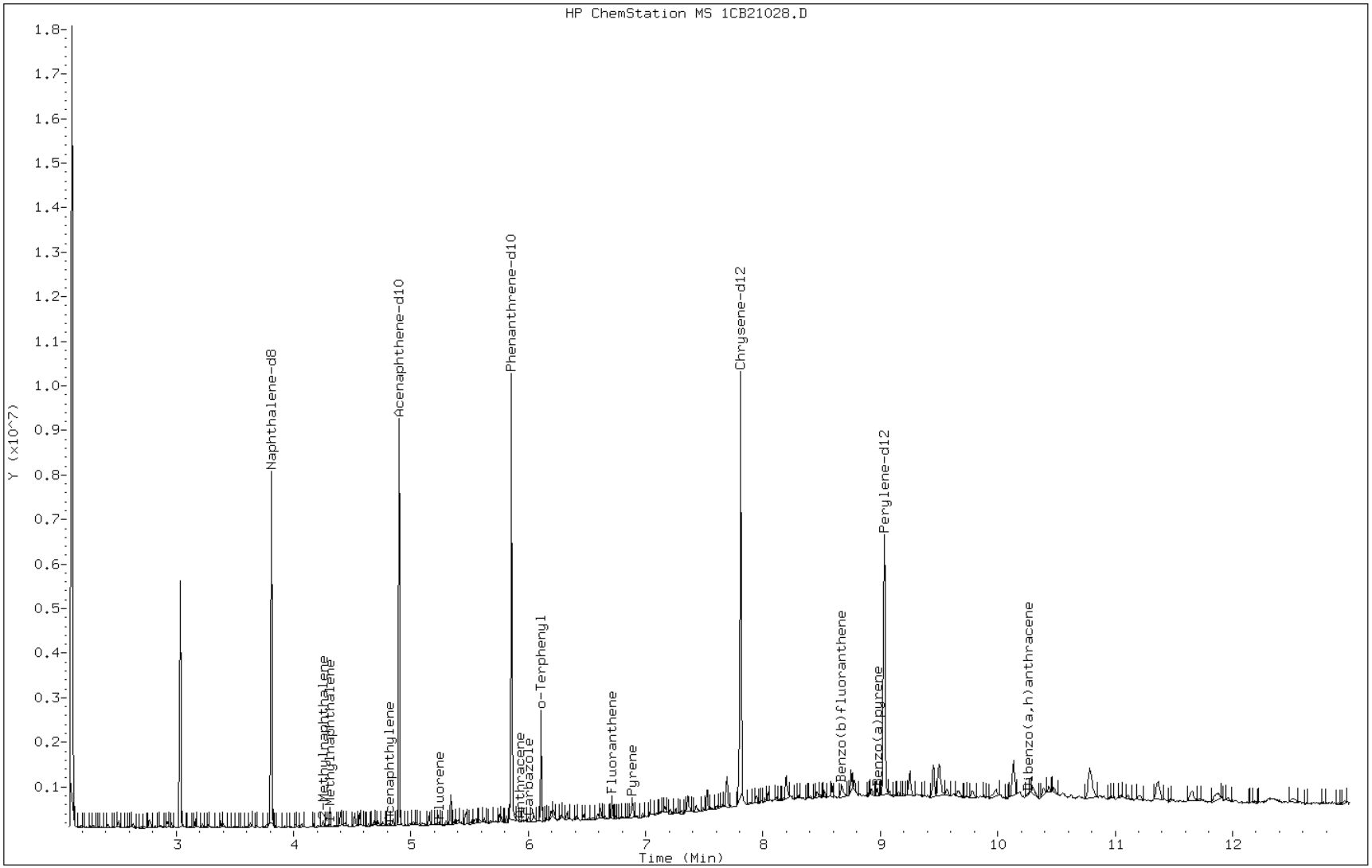
Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS

Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a

Operator: SCC



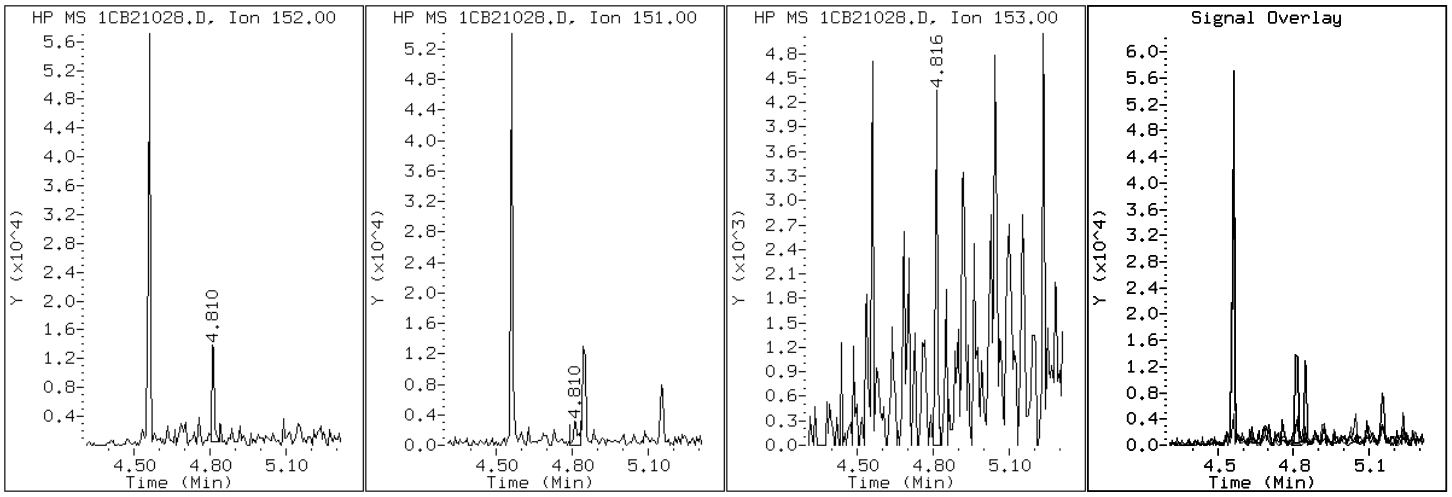
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

5 Acenaphthylene



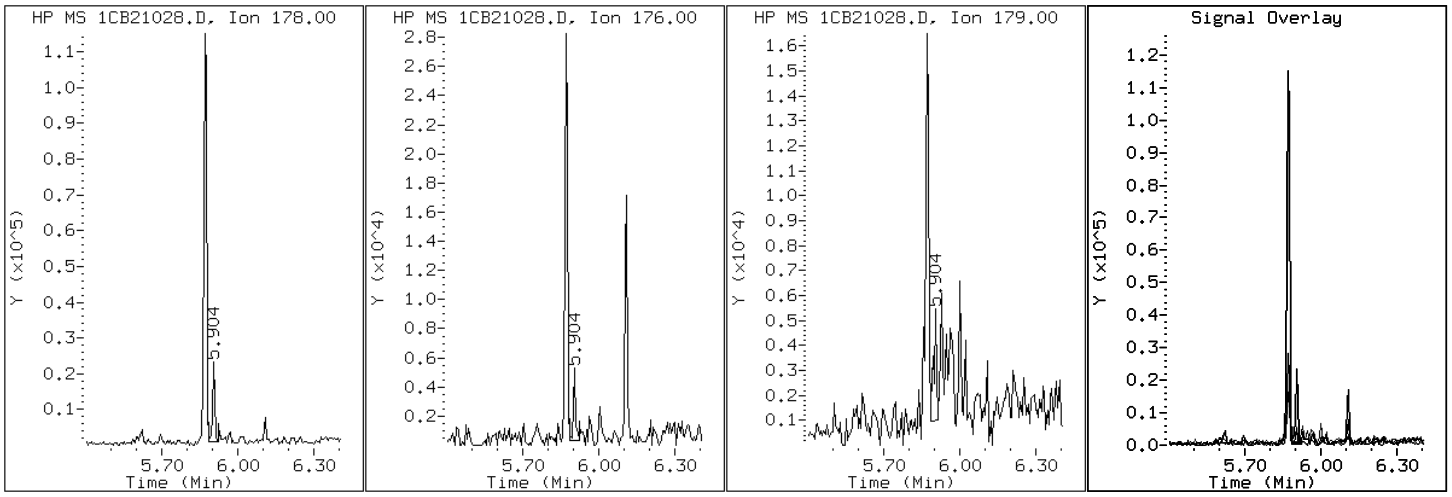
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

12 Anthracene



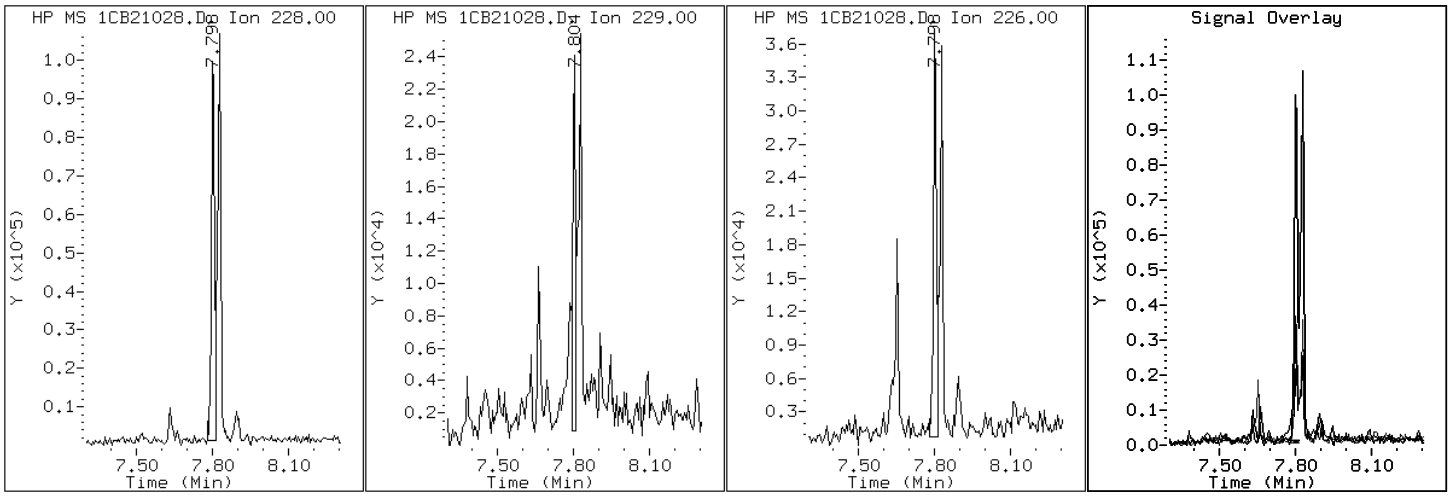
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

17 Benzo(a)anthracene



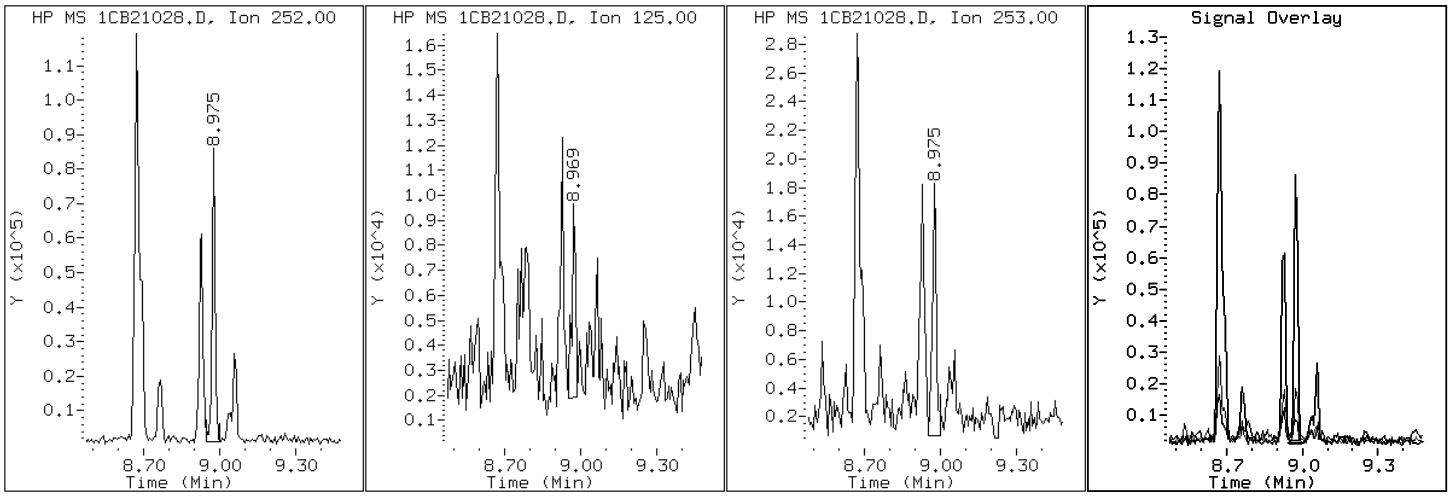
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

22 Benzo(a)pyrene



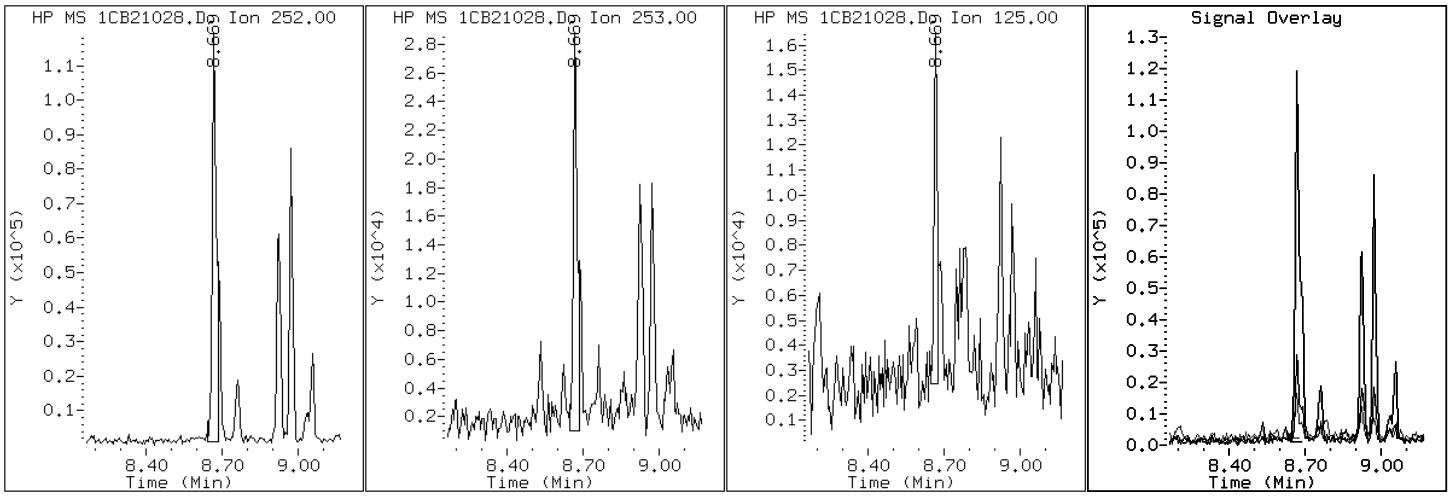
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

20 Benzo(b)fluoranthene



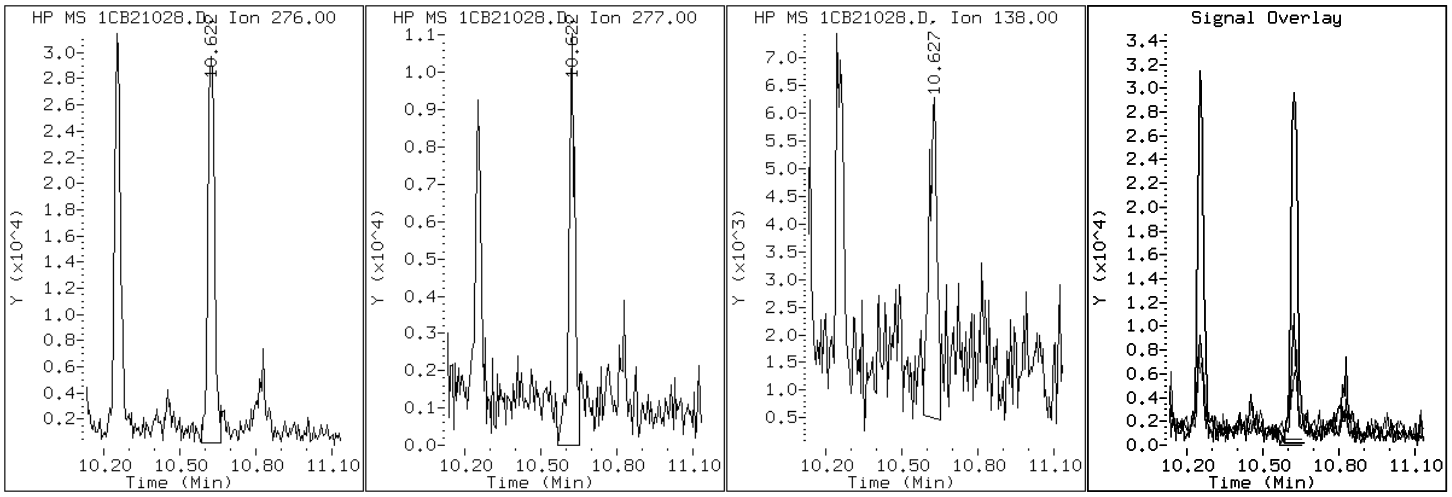
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

26 Benzo(g,h,i)perylene



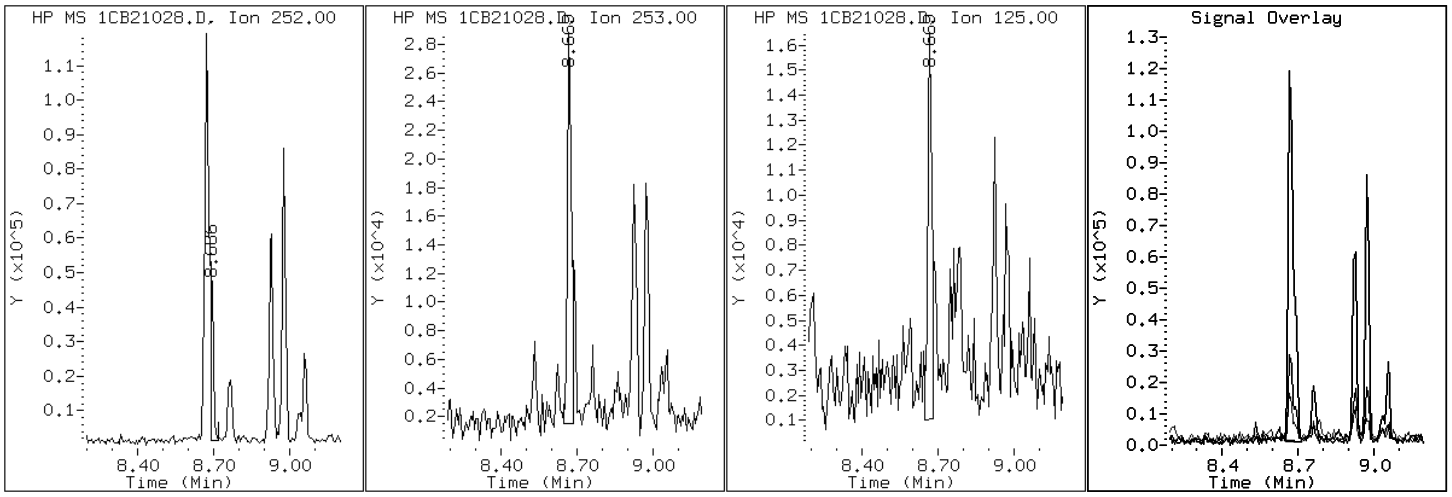
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

21 Benzo(k)fluoranthene



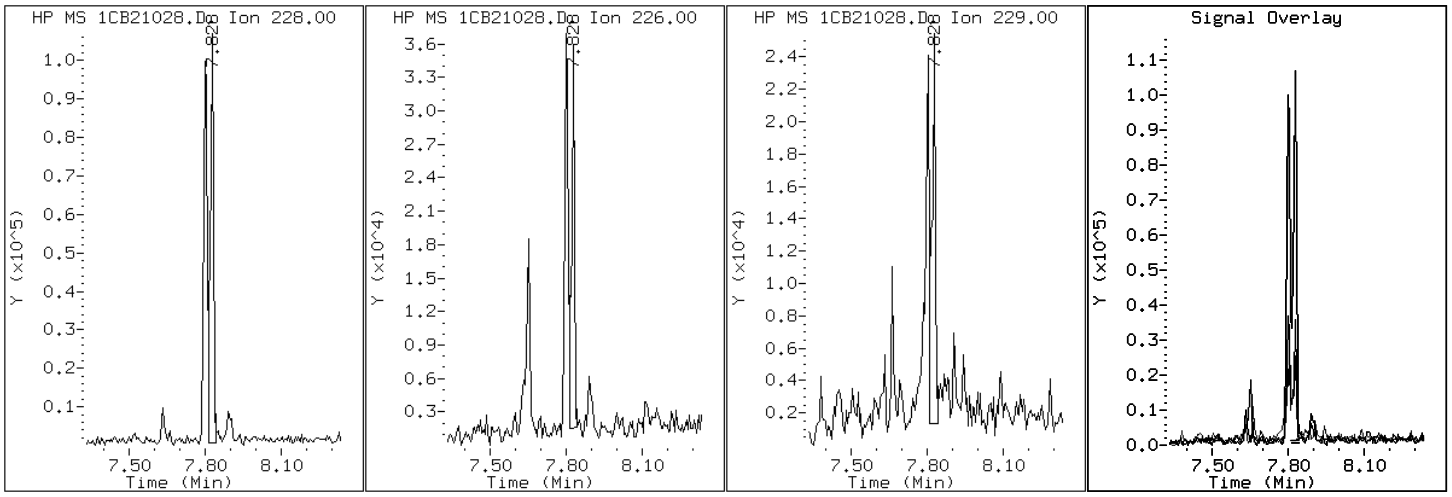
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

19 Chrysene



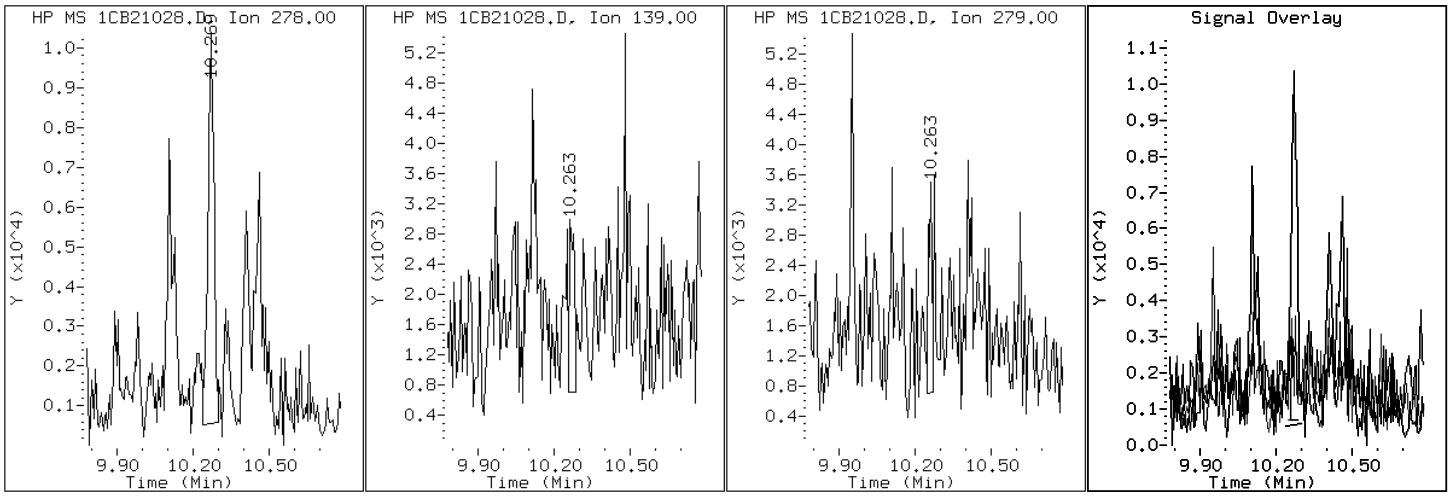
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

25 Dibenzo(a,h)anthracene



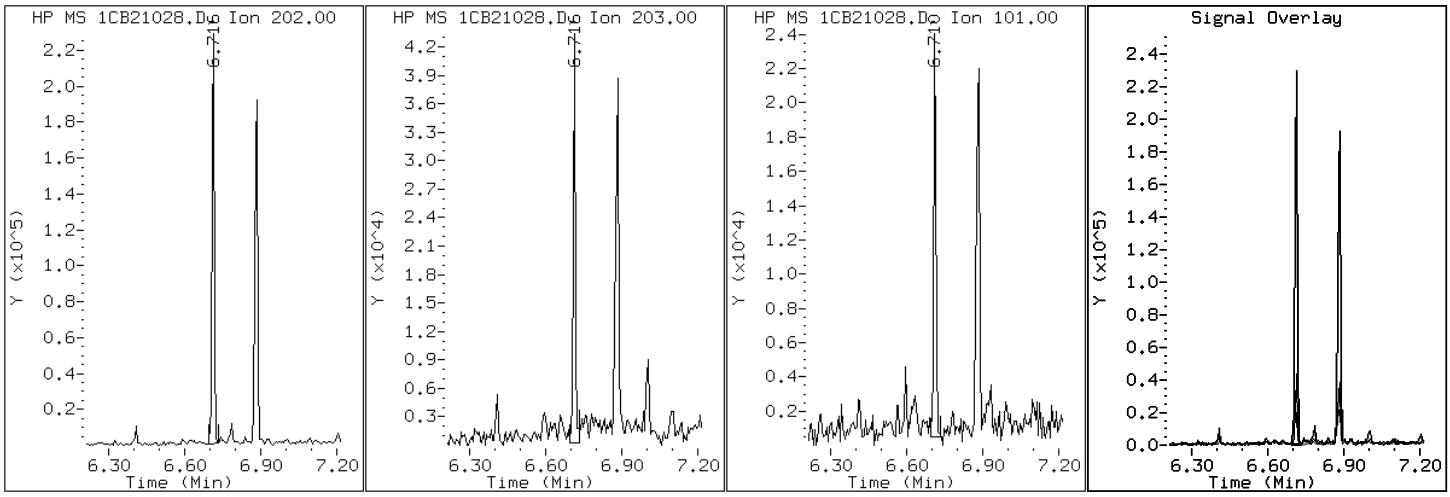
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

15 Fluoranthene



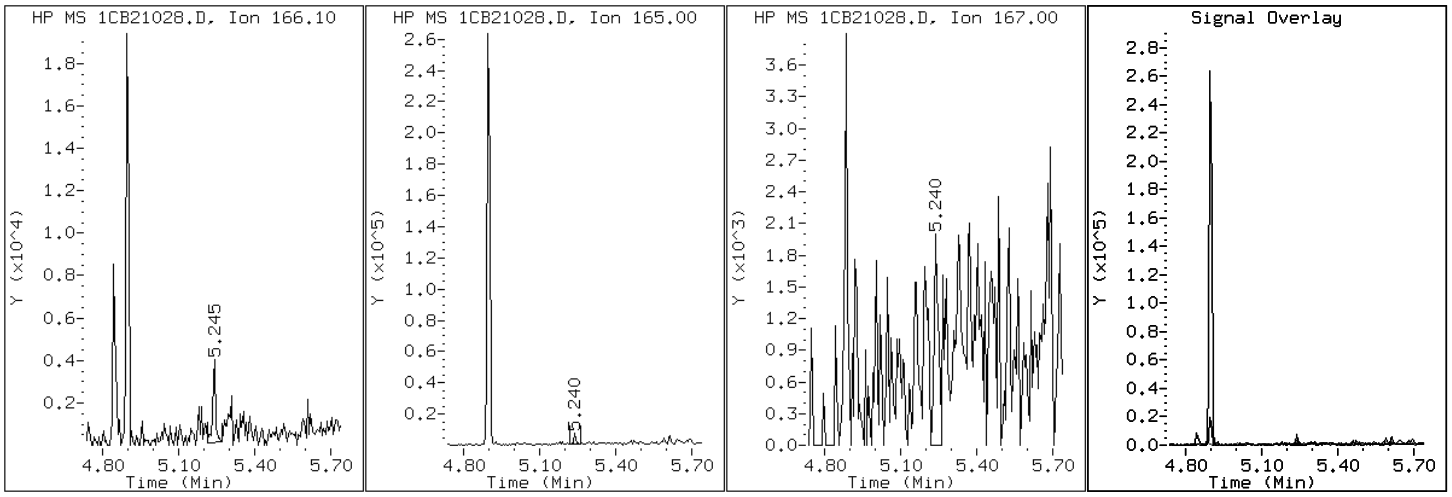
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

9 Fluorene



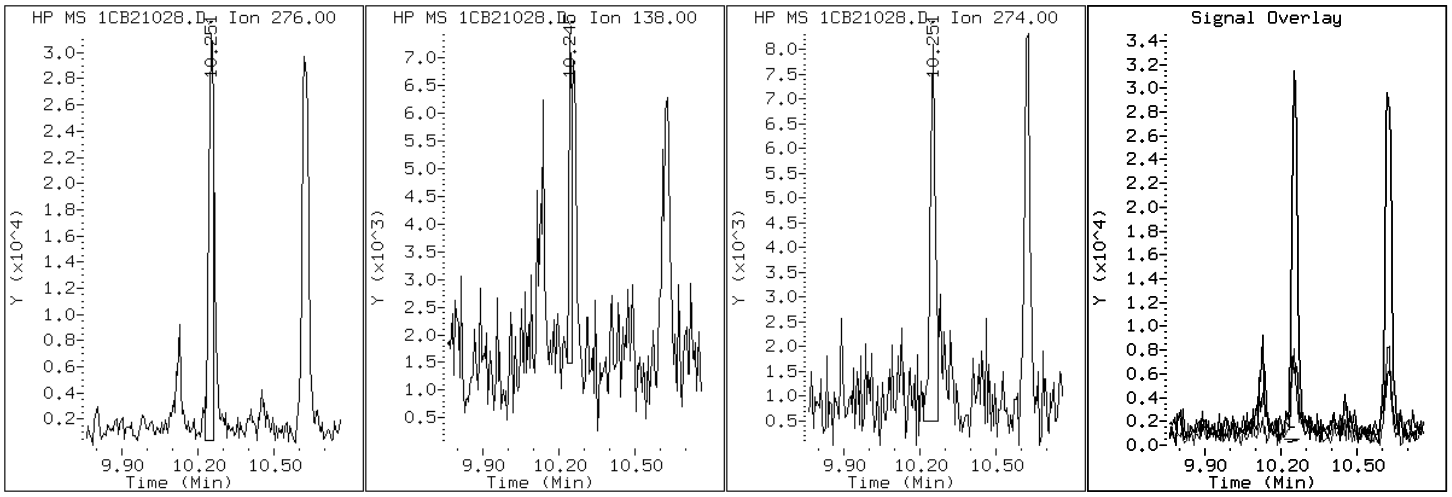
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

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



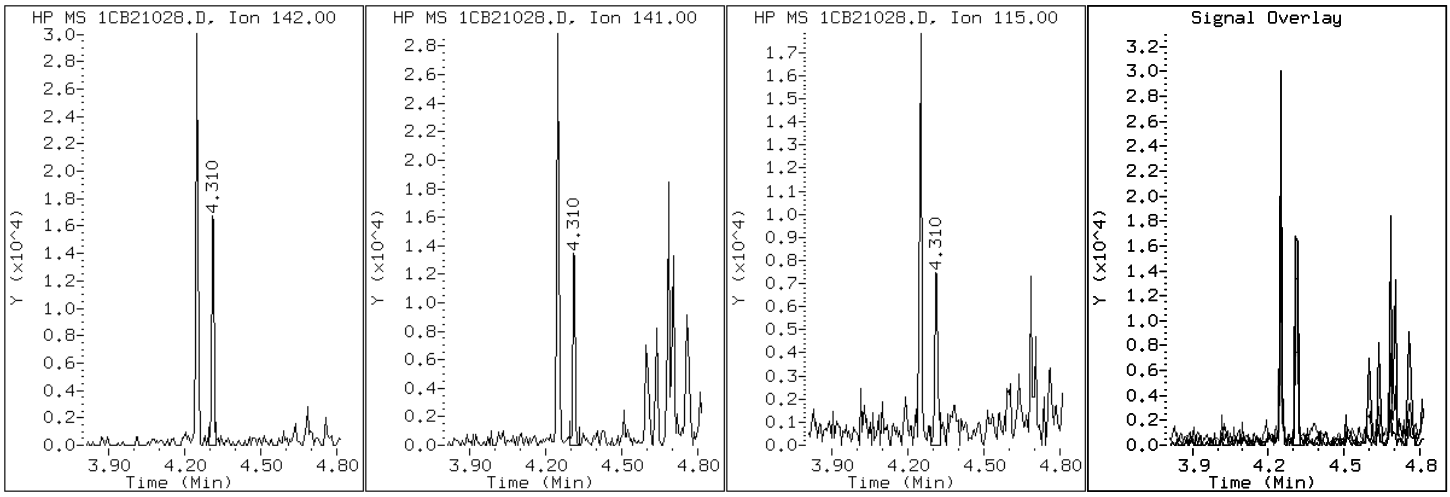
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

4 1-Methylnaphthalene



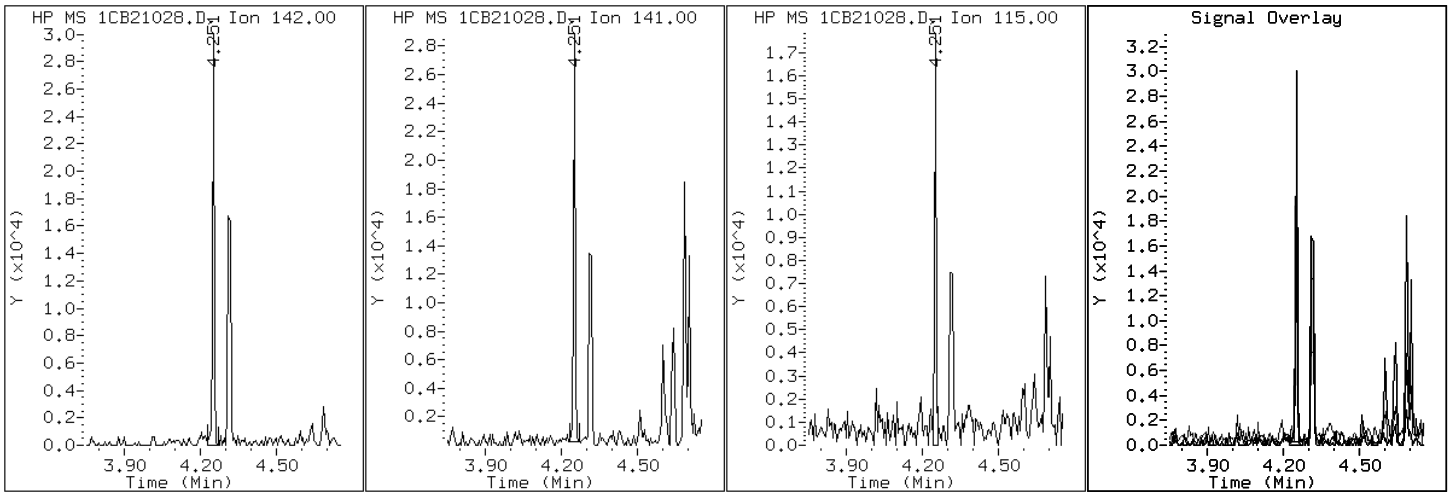
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

3 2-Methylnaphthalene



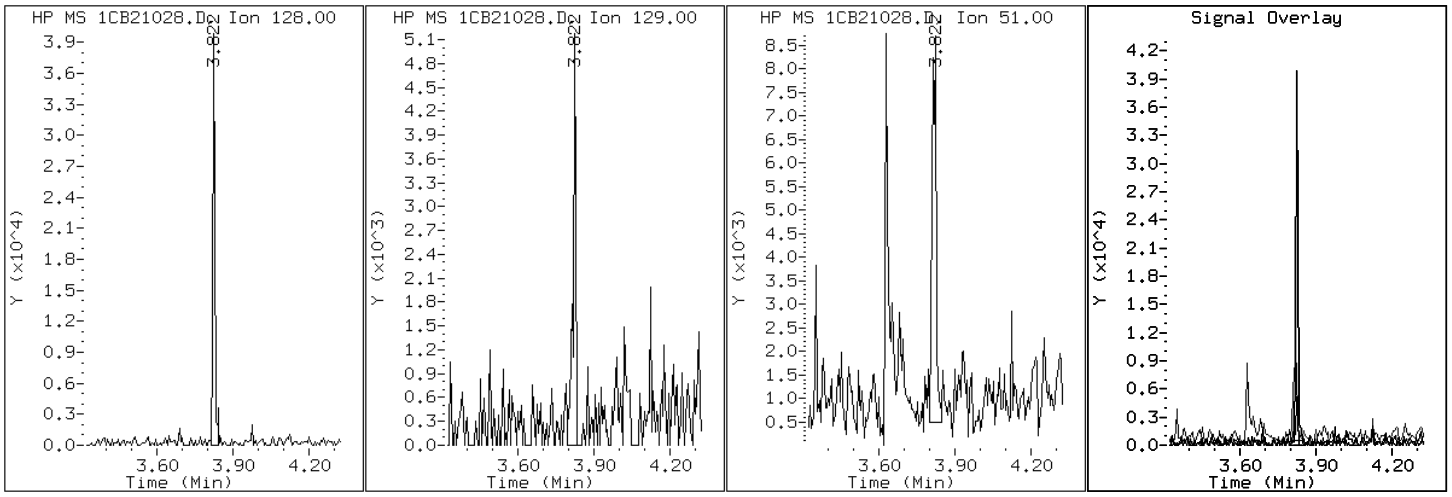
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

2 Naphthalene



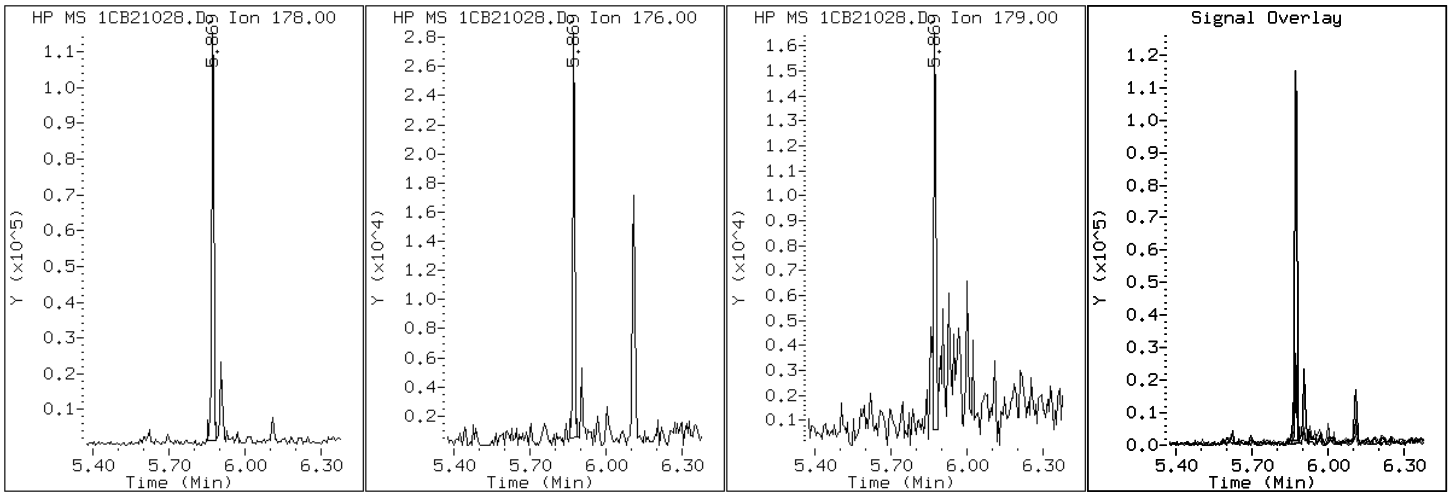
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

11 Phenanthrene



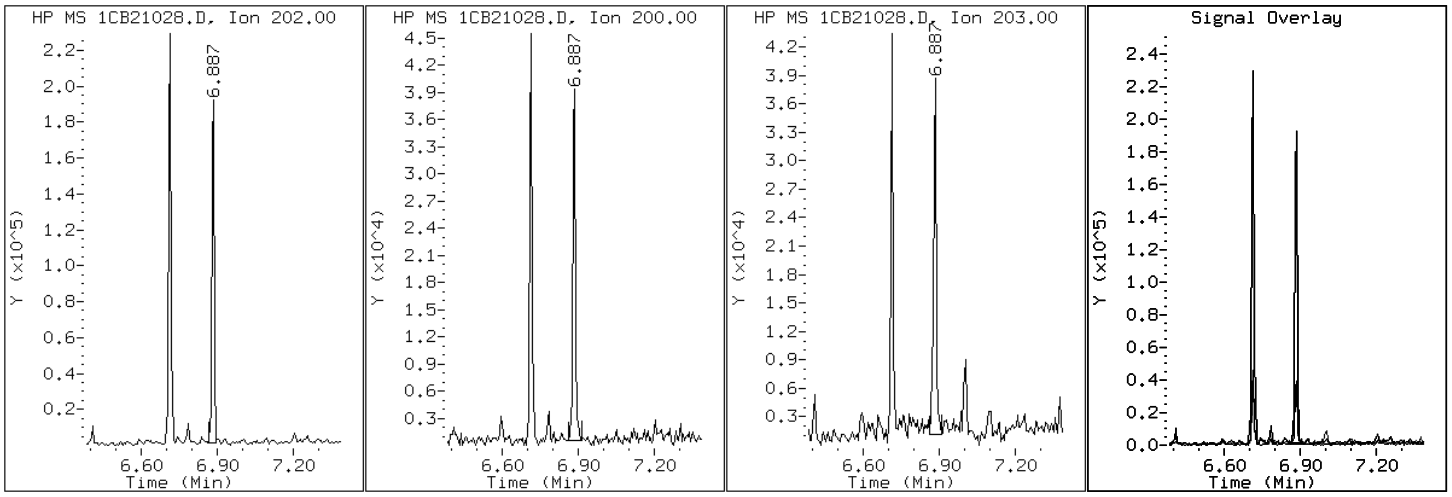
Data File: 1CB21028.D

Date: 21-FEB-2013 19:26

Client ID: CV0971XX-CS Instrument: BSMC5973.i

Sample Info: 680-87496-a-44-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB21028.D
Inj. Date and Time: 21-FEB-2013 19:26
Instrument ID: BSMC5973.i
Client ID: CV0971XX-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/22/2013

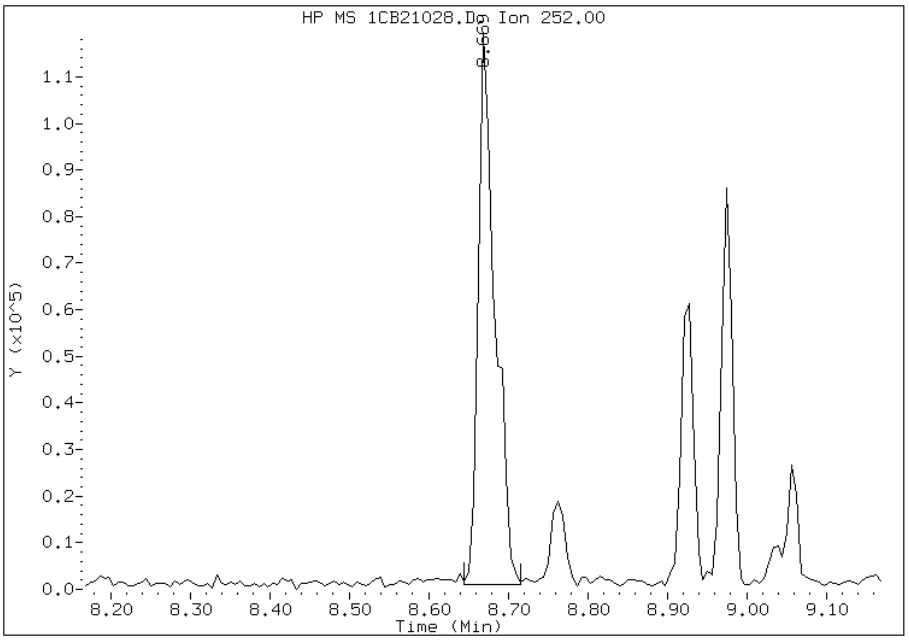
Processing Integration Results

RT: 8.67

Response: 173222

Amount: 3

Conc: 223



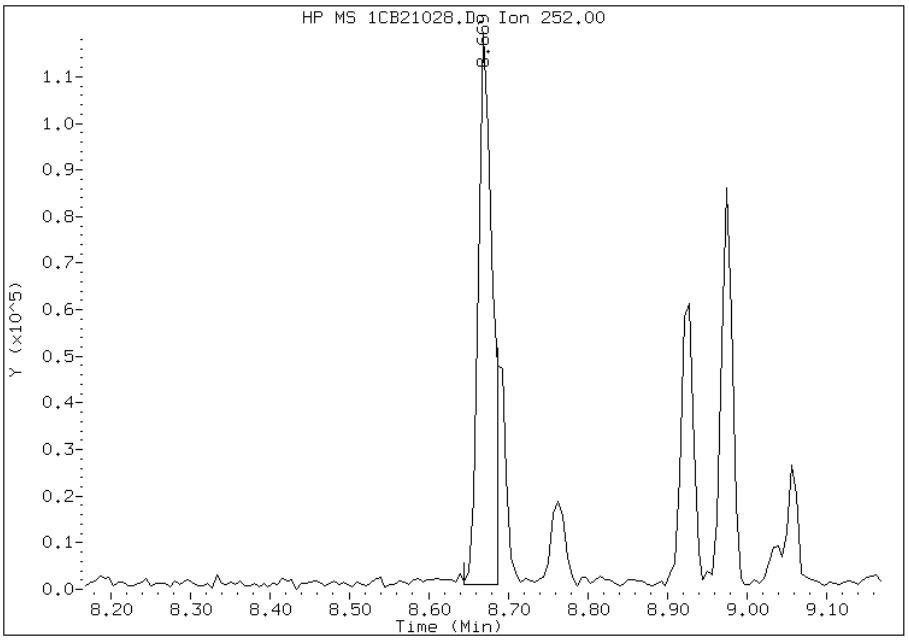
Manual Integration Results

RT: 8.67

Response: 145708

Amount: 3

Conc: 188



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

Manual Integration Report

Data File: 1CB21028.D
Inj. Date and Time: 21-FEB-2013 19:26
Instrument ID: BSMC5973.i
Client ID: CV0971XX-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/22/2013

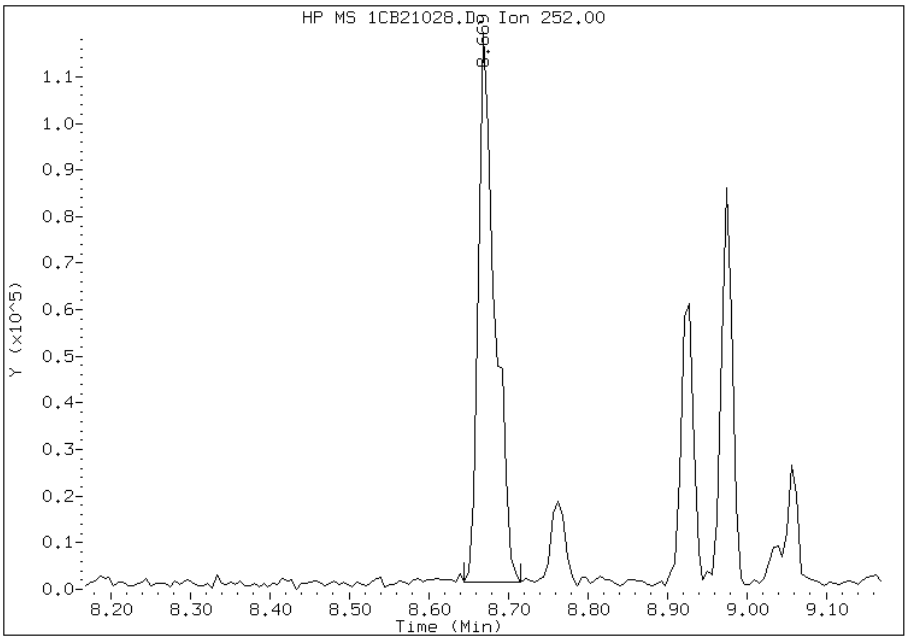
Processing Integration Results

RT: 8.67

Response: 171461

Amount: 3

Conc: 201



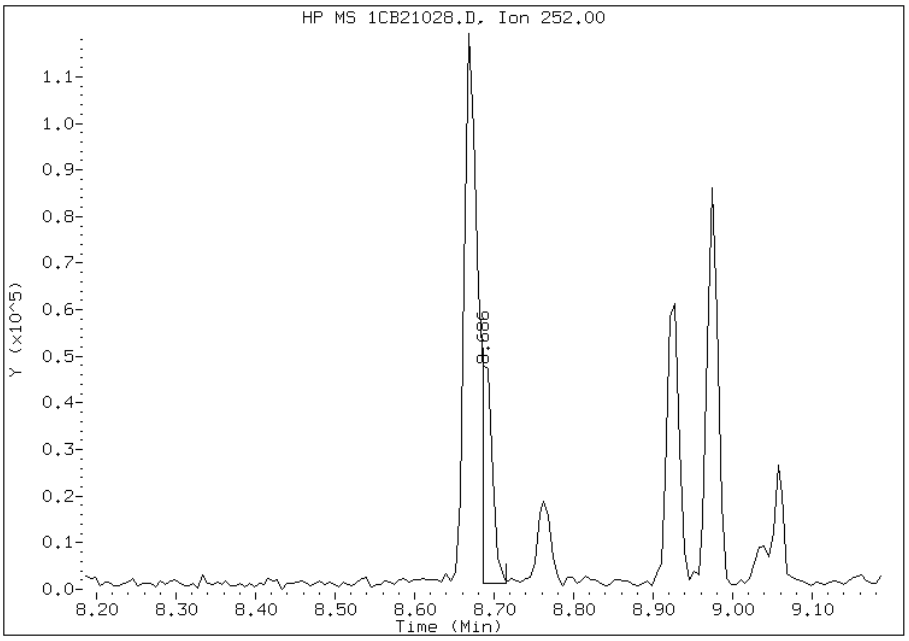
Manual Integration Results

RT: 8.69

Response: 43834

Amount: 1

Conc: 51



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 11:12
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB21028.D
Inj. Date and Time: 21-FEB-2013 19:26
Instrument ID: BSMC5973.i
Client ID: CV0971XX-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

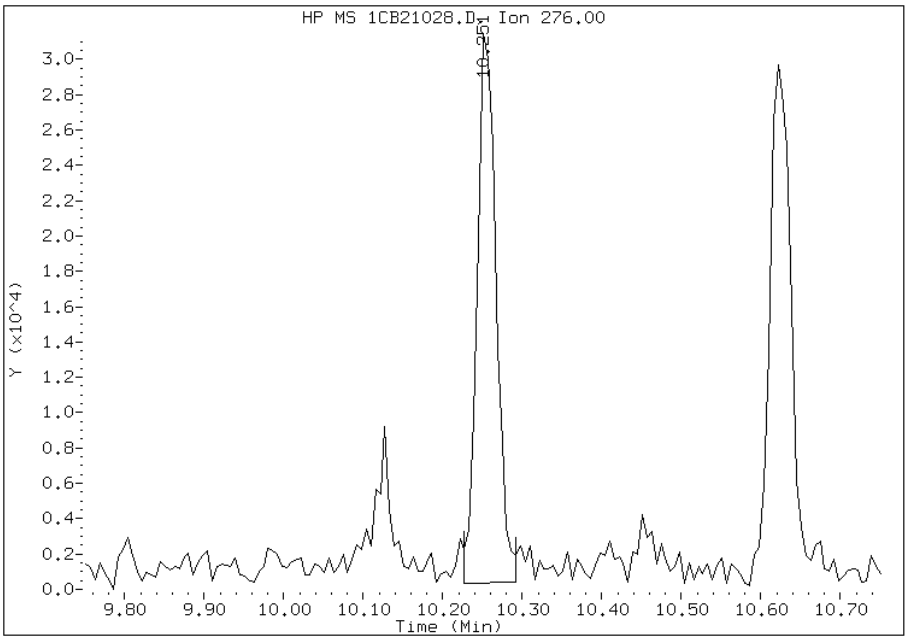
Processing Integration Results

RT: 10.25

Response: 51801

Amount: 1

Conc: 73



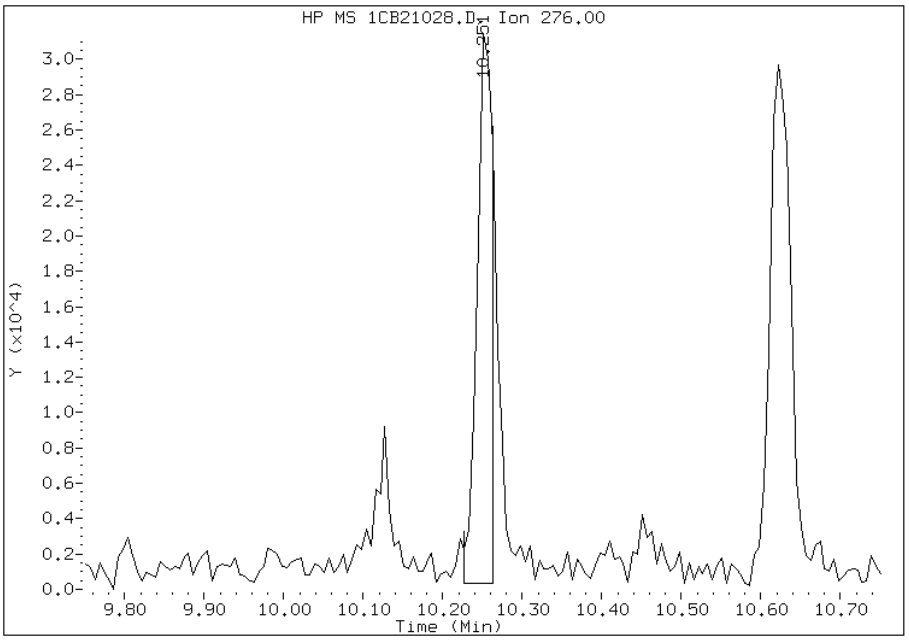
Manual Integration Results

RT: 10.25

Response: 42069

Amount: 1

Conc: 59



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 11:12
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: CV0971YY-CS | Lab Sample ID: 680-87496-45

Matrix: Solid | Lab File ID: 1DB21025.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 14:15

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.34(g) | Date Analyzed: 02/21/2013 20:14

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

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

% Moisture: 9.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430	U	430	86
208-96-8	Acenaphthylene	52	J	170	22
120-12-7	Anthracene	78		36	18
56-55-3	Benzo[a]anthracene	260		34	17
50-32-8	Benzo[a]pyrene	270		45	22
205-99-2	Benzo[b]fluoranthene	460		53	26
191-24-2	Benzo[g,h,i]perylene	160		86	19
207-08-9	Benzo[k]fluoranthene	170		34	16
218-01-9	Chrysene	360		39	19
53-70-3	Dibenz(a,h)anthracene	49	J	86	18
206-44-0	Fluoranthene	520		86	17
86-73-7	Fluorene	18	J	86	18
193-39-5	Indeno[1,2,3-cd]pyrene	160		86	31
90-12-0	1-Methylnaphthalene	110	J	170	19
91-57-6	2-Methylnaphthalene	140	J	170	31
91-20-3	Naphthalene	120	J	170	19
85-01-8	Phenanthrene	300		34	17
129-00-0	Pyrene	410		86	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	109		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21025.D
Lab Smp Id: 680-87496-A-45-A Client Smp ID: CV0971YY-CS
Inj Date : 21-FEB-2013 20:14
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-45-A
Misc Info : 680-87496-A-45-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 25
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	15.340	Weight Extracted
M	9.284	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.190	6.195	(1.000)	3281825	40.0000	
* 6 Acenaphthene-d10	164	7.864	7.863	(1.000)	1986960	40.0000	
* 9 Phenanthrene-d10	188	9.122	9.127	(1.000)	3262614	40.0000	
$ 13 o-Terphenyl	230	9.427	9.432	(1.033)	131890	2.72262	780
* 17 Chrysene-d12	240	11.472	11.477	(1.000)	3205805	40.0000	
* 22 Perylene-d12	264	13.352	13.363	(1.000)	3098127	40.0000	
2 Naphthalene	128	6.213	6.212	(1.004)	36954	0.42578	120
3 2-Methylnaphthalene	142	6.913	6.912	(1.117)	26813	0.48641	140
4 1-Methylnaphthalene	142	7.001	7.006	(1.131)	20565	0.39662	110
5 Acenaphthylene	152	7.729	7.734	(0.983)	15406	0.17958	52
8 Fluorene	166	8.329	8.333	(1.059)	3812	0.06132	18(Q)
10 Phenanthrene	178	9.139	9.144	(1.002)	96855	1.03910	300
11 Anthracene	178	9.175	9.185	(1.006)	24832	0.27191	78
12 Carbazole	167	9.316	9.320	(1.021)	12965	0.16029	46

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.121	10.125	(1.109)	168337	1.80294	520
15 Pyrene	202	10.309	10.313	(0.899)	143572	1.43437	410
16 Benzo(a)anthracene	228	11.448	11.447	(0.998)	84810	0.90442	260
18 Chrysene	228	11.490	11.500	(1.002)	114523	1.26744	360
19 Benzo(b)fluoranthene	252	12.782	12.793	(0.957)	126314	1.60611	460
20 Benzo(k)fluoranthene	252	12.817	12.840	(0.960)	47788	0.57526	160
21 Benzo(a)pyrene	252	13.240	13.263	(0.992)	73488	0.94773	270
23 Indeno(1,2,3-cd)pyrene	276	14.962	14.990	(1.121)	45328	0.54767	160(M)
24 Dibenzo(a,h)anthracene	278	14.991	15.026	(1.123)	12994	0.17109	49
25 Benzo(g,h,i)perylene	276	15.420	15.460	(1.155)	44191	0.55806	160(MH)

QC Flag Legend

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

Data File: 1DB21025.D

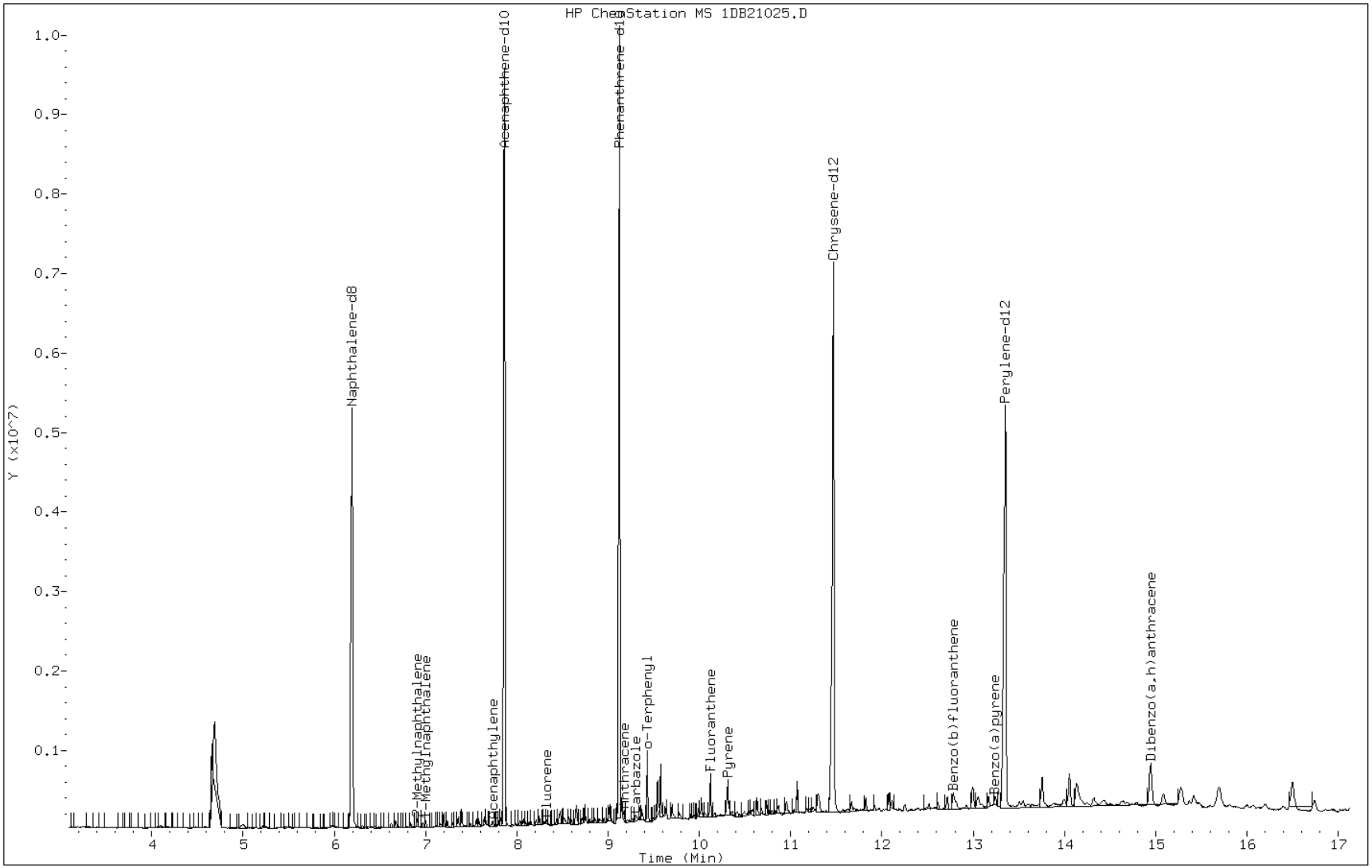
Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS

Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A

Operator: SCC



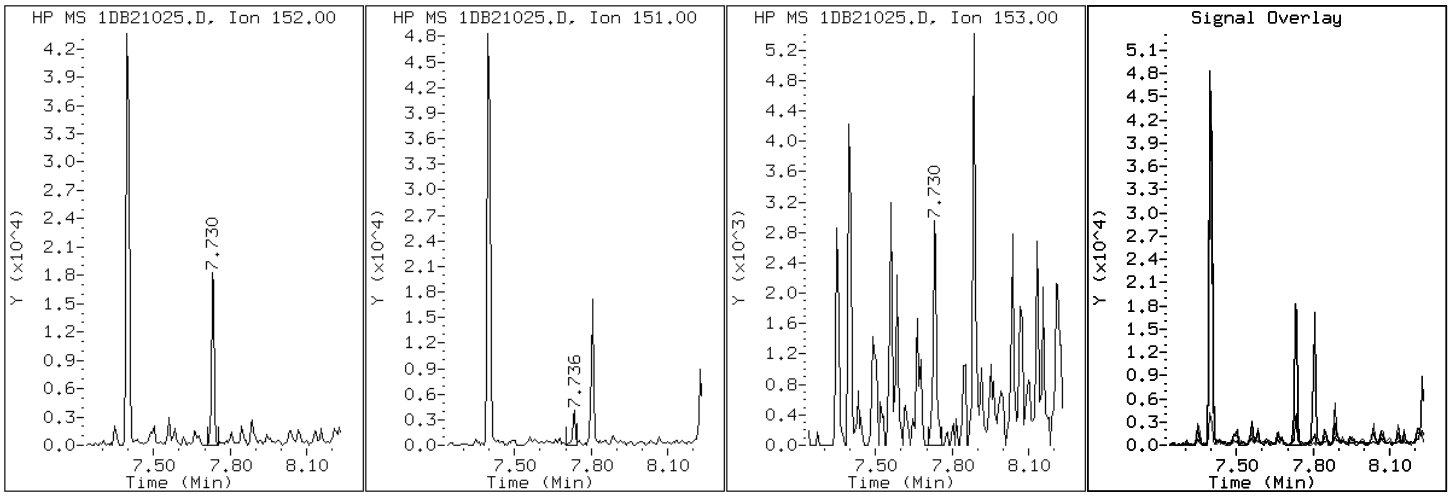
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

5 Acenaphthylene



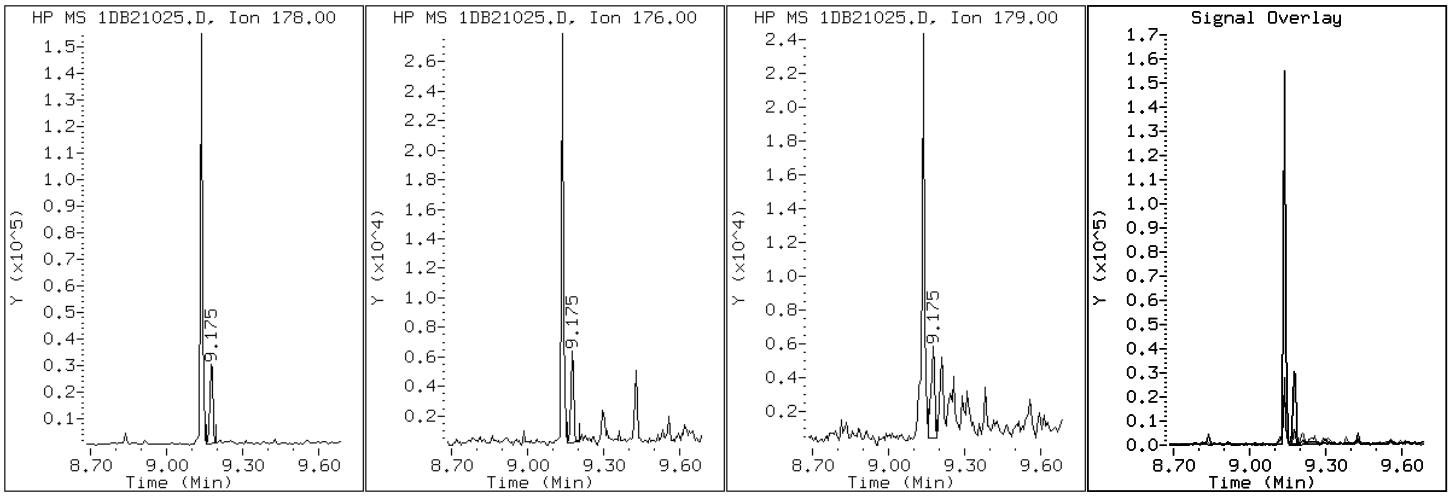
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

11 Anthracene



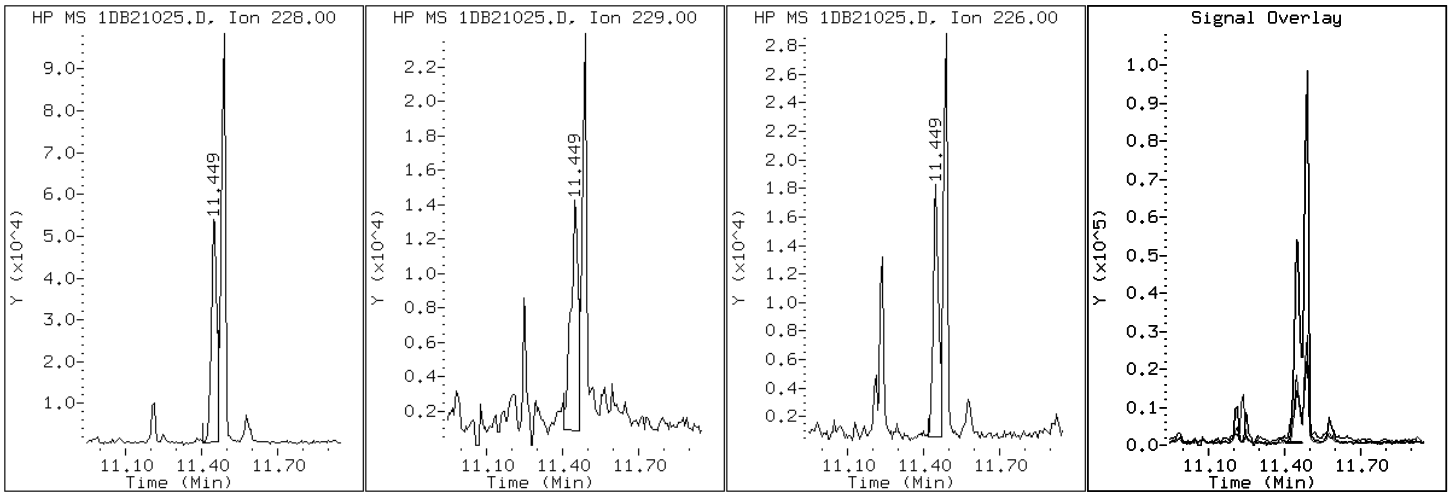
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

16 Benzo(a)anthracene



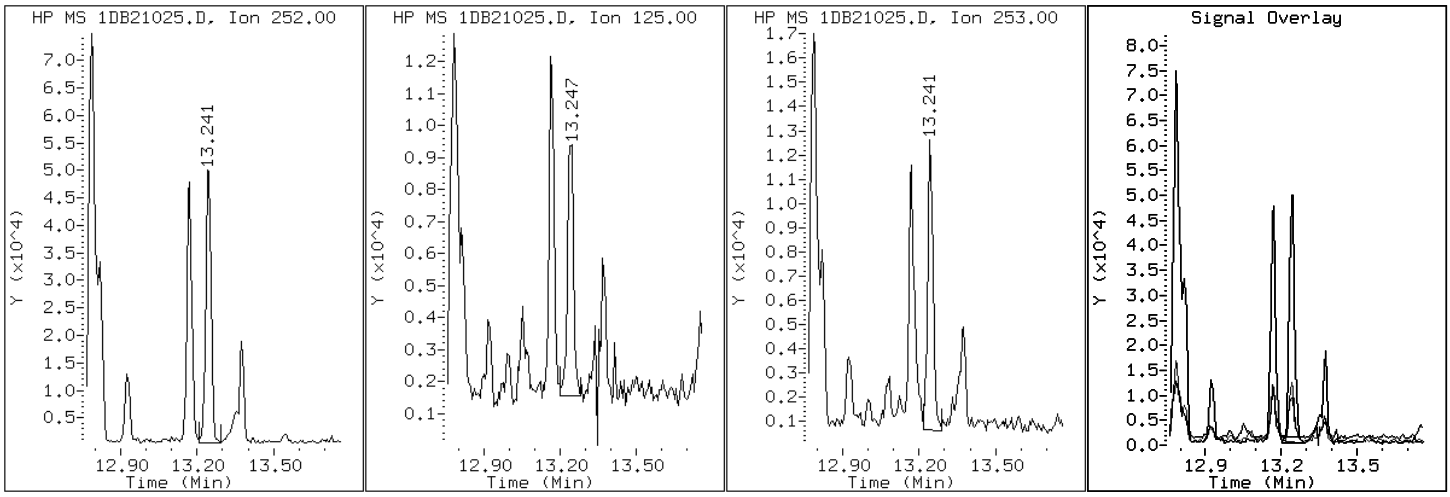
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

21 Benzo(a)pyrene



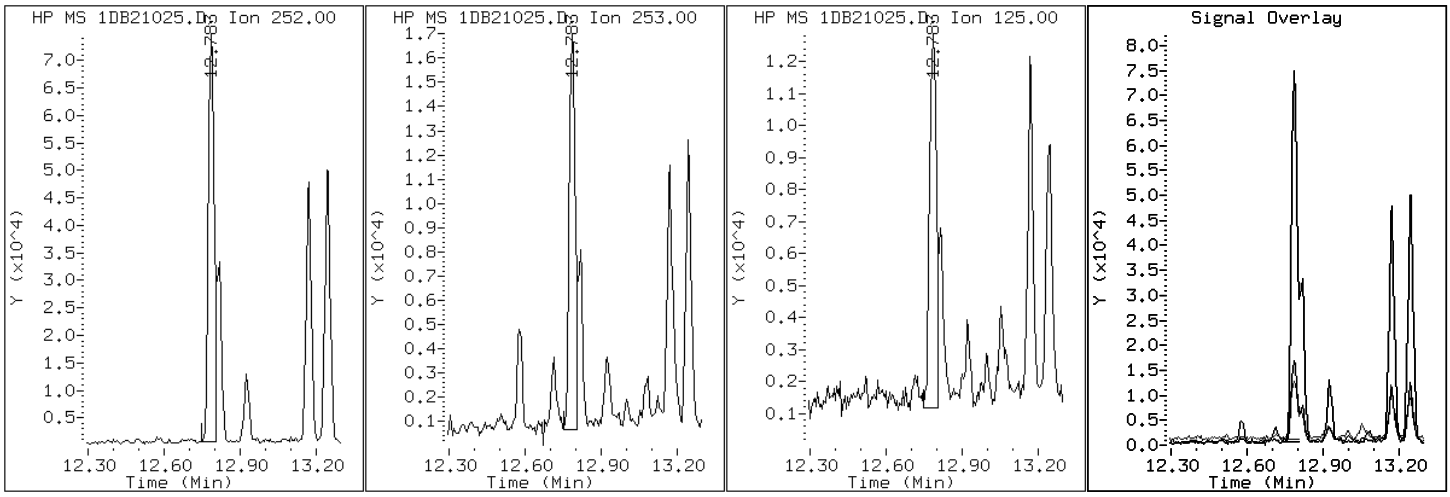
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

19 Benzo(b)fluoranthene



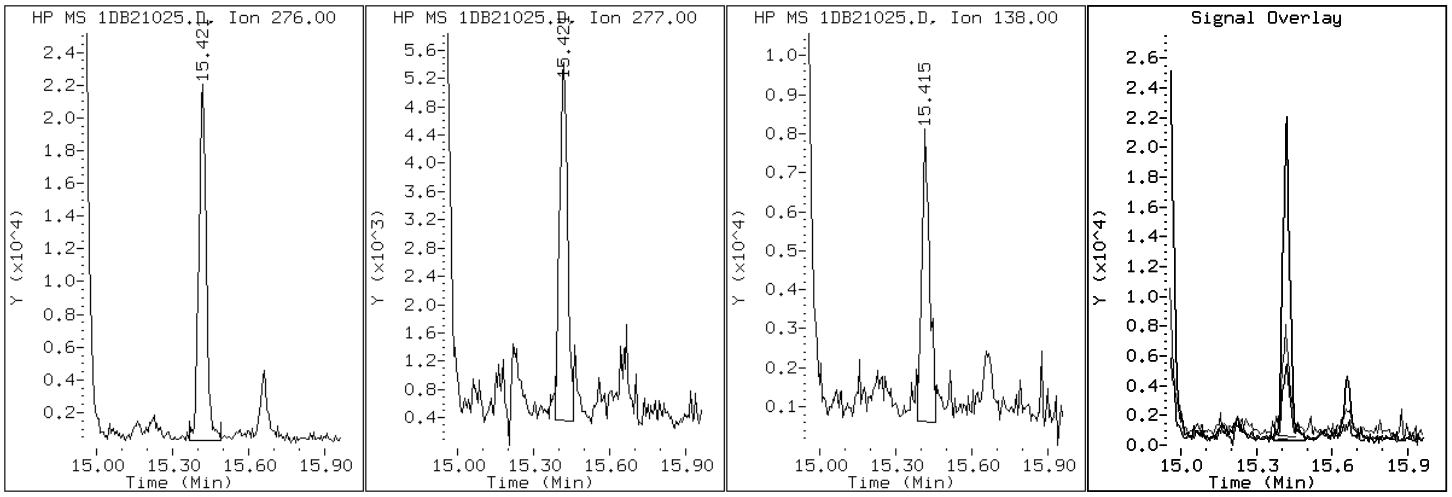
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

25 Benzo(g,h,i)perylene



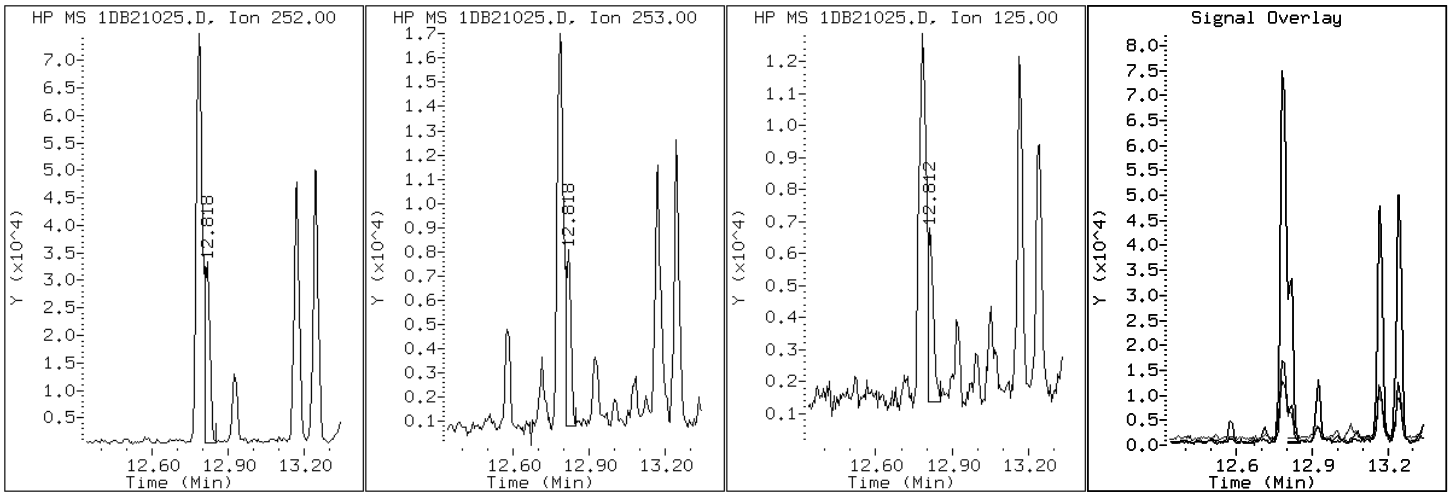
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

20 Benzo(k)fluoranthene



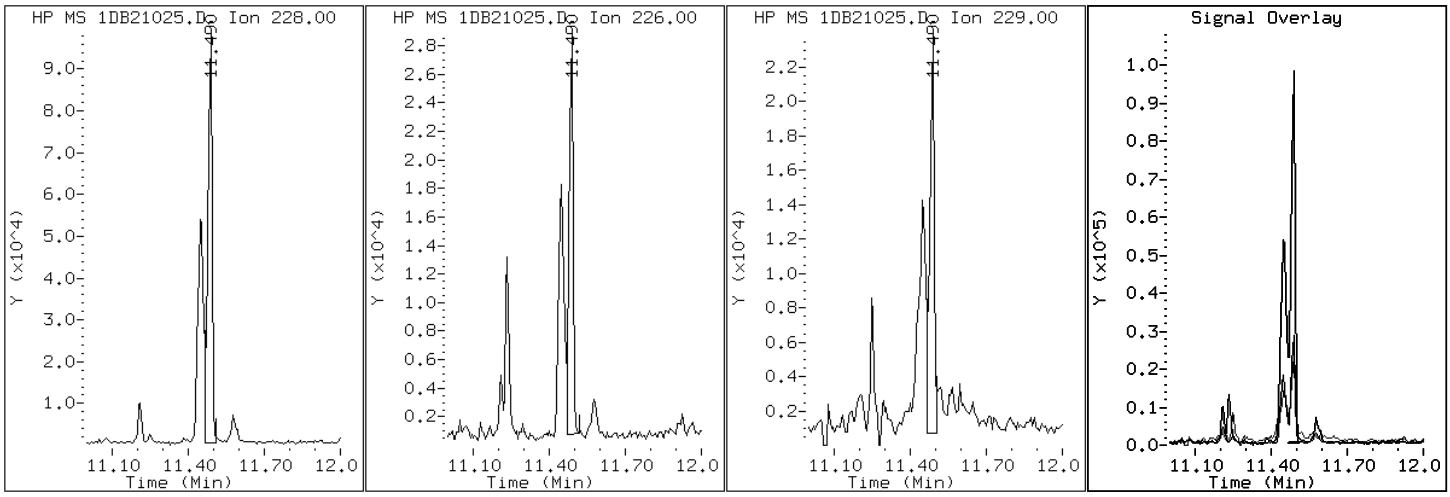
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

18 Chrysene



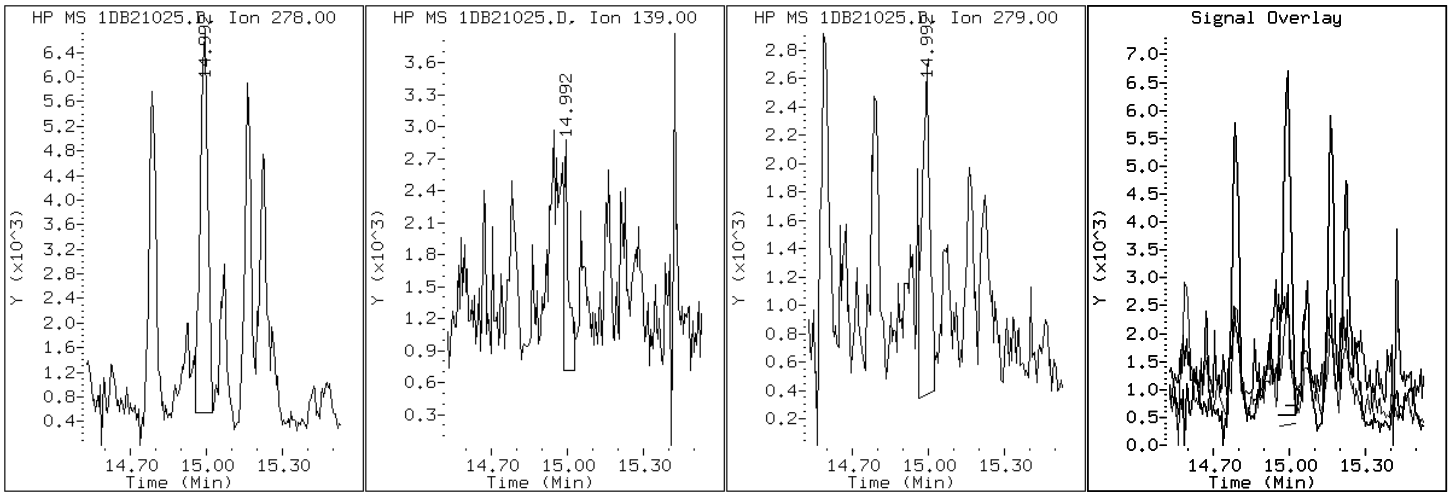
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

24 Dibenzo(a,h)anthracene



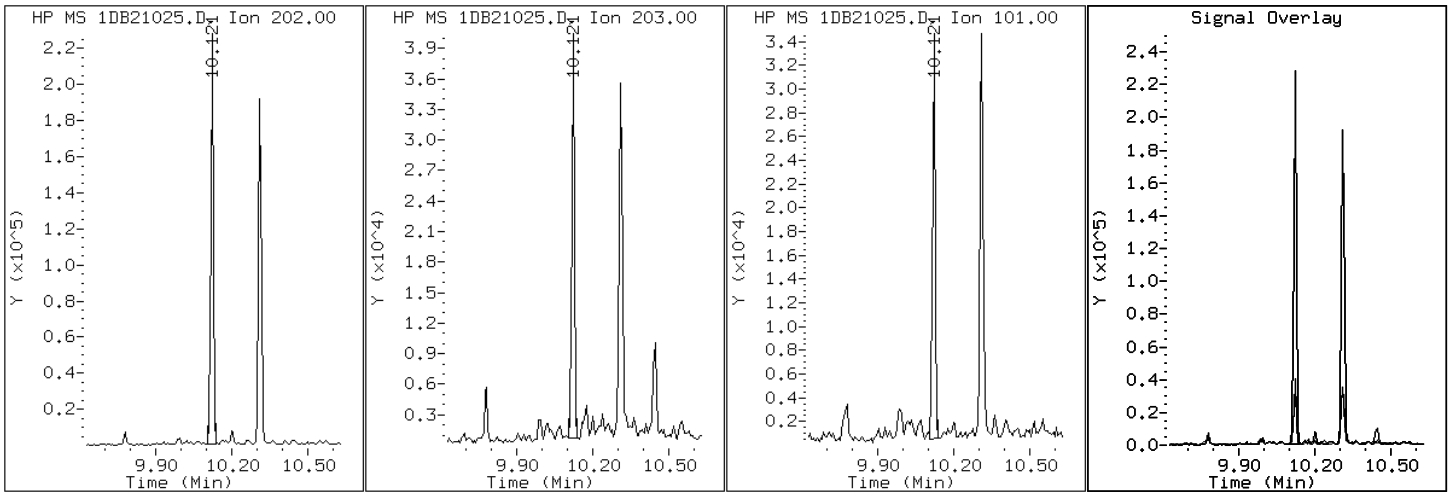
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

14 Fluoranthene



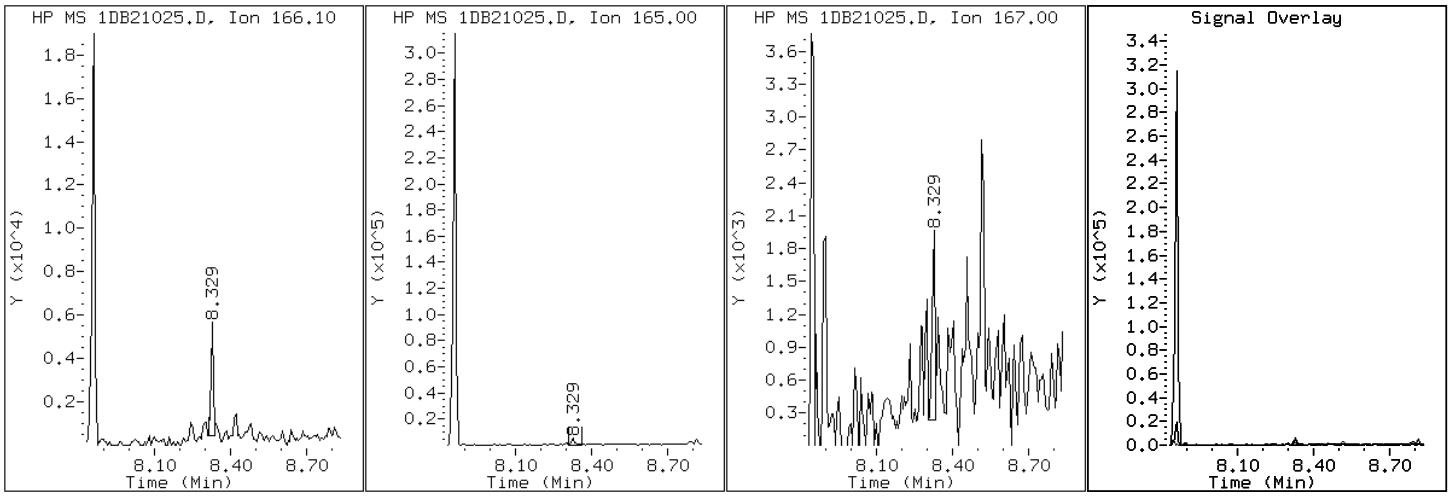
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

8 Fluorene



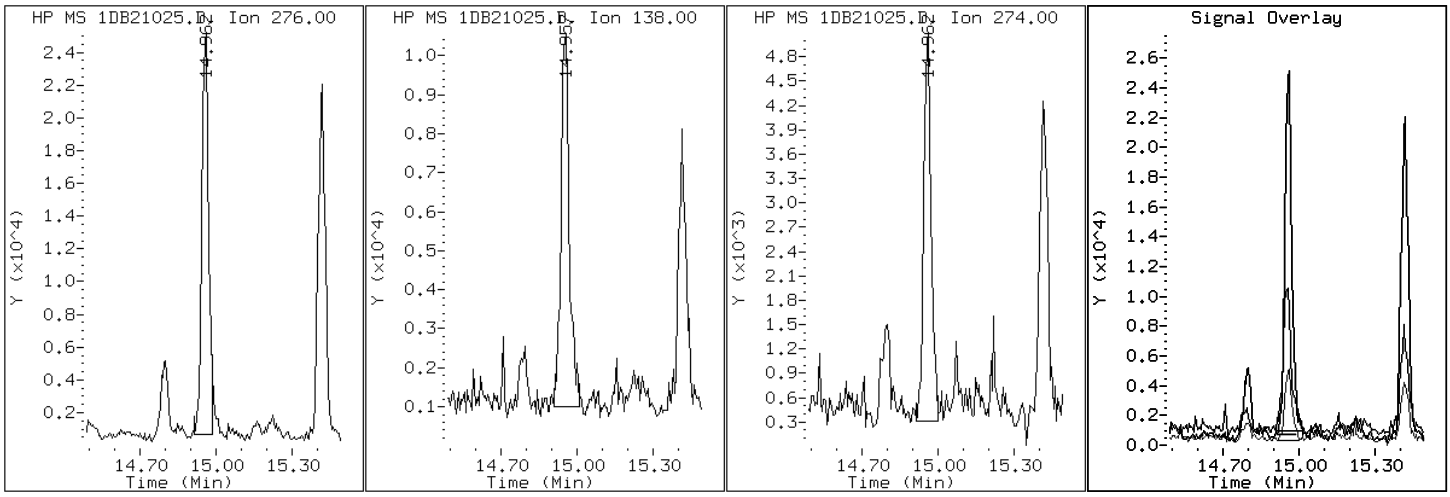
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

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



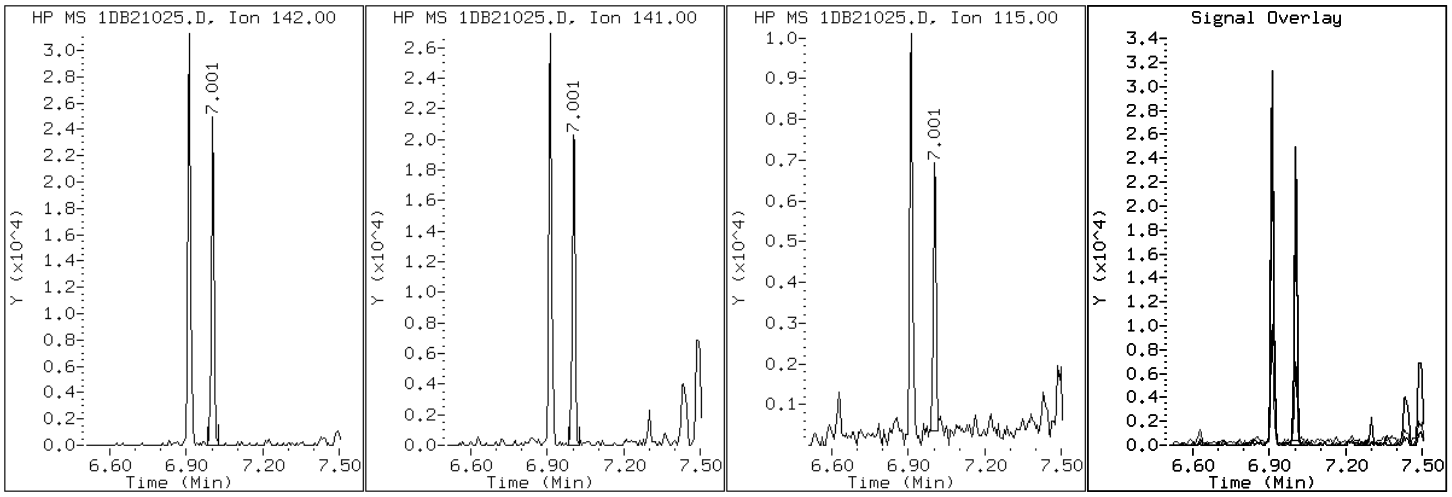
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

4 1-Methylnaphthalene



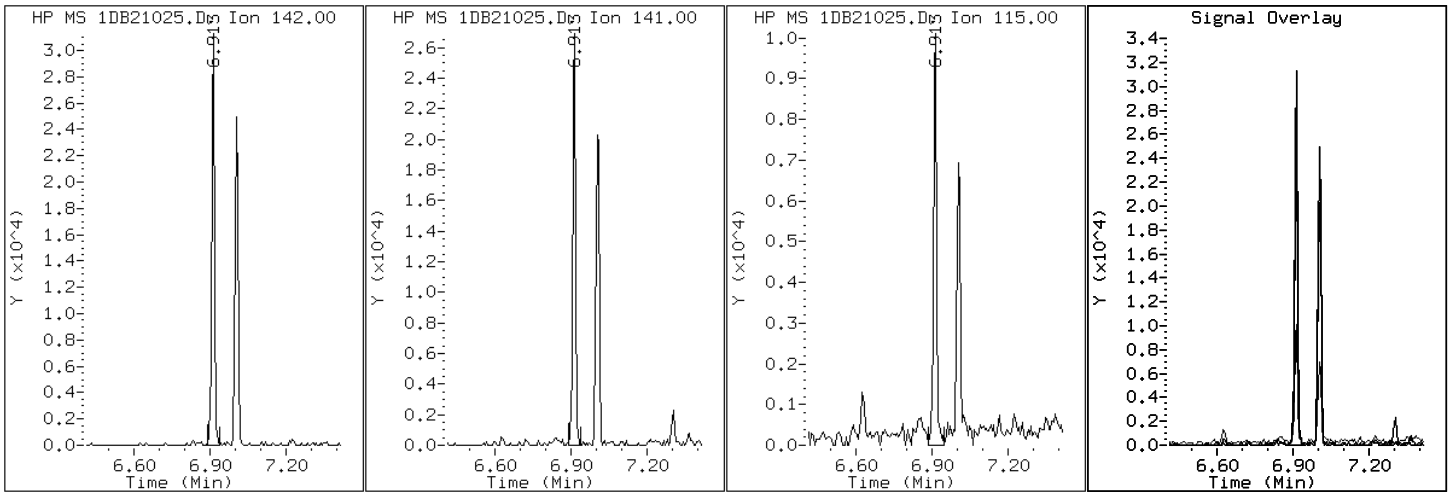
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

3 2-Methylnaphthalene



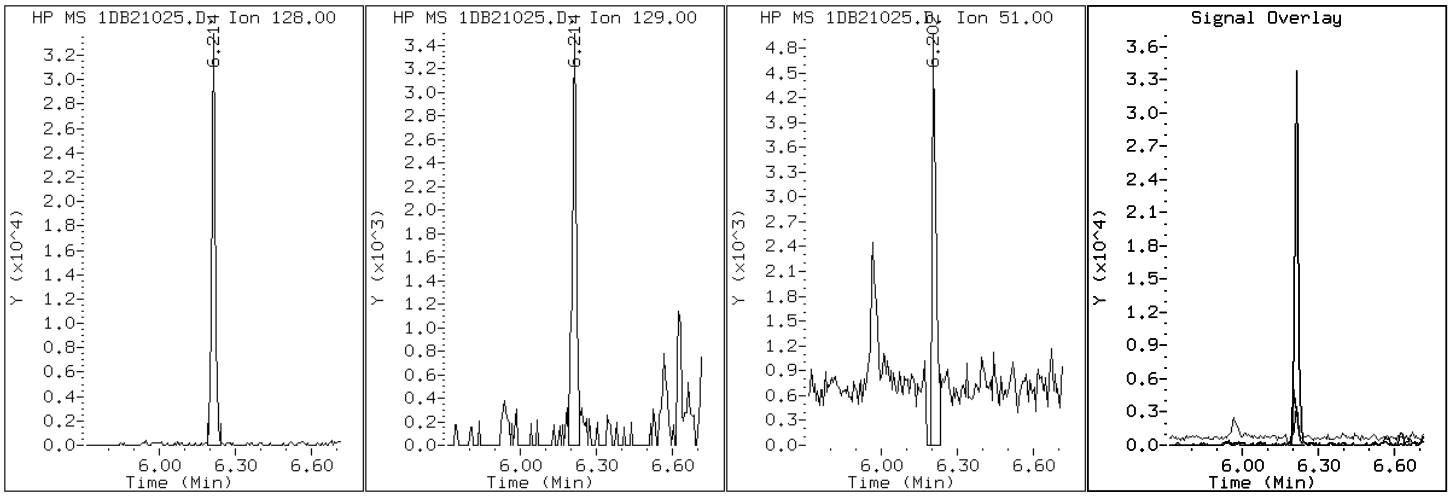
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

2 Naphthalene



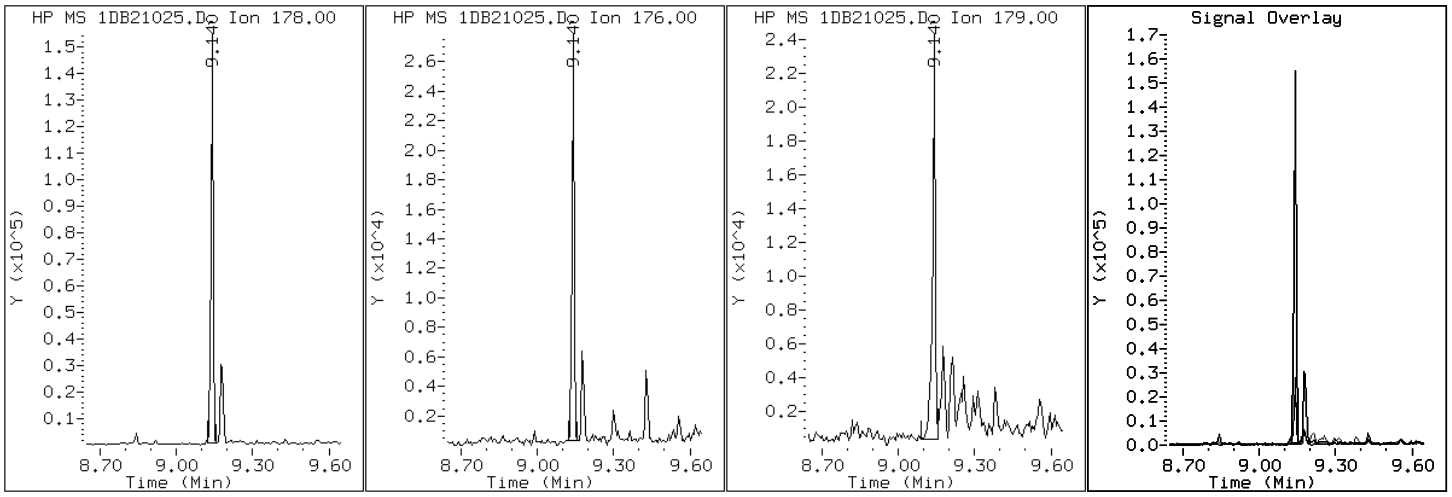
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

10 Phenanthrene



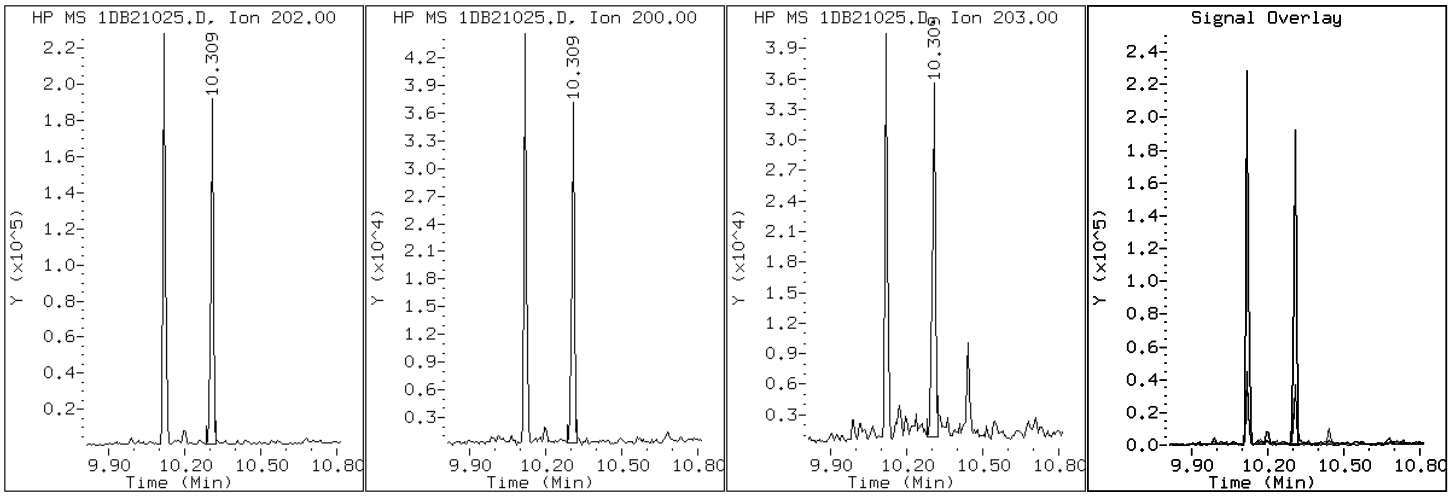
Data File: 1DB21025.D

Date: 21-FEB-2013 20:14

Client ID: CV0971YY-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-45-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB21025.D
Inj. Date and Time: 21-FEB-2013 20:14
Instrument ID: BSMSD.i
Client ID: CV0971YY-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/25/2013

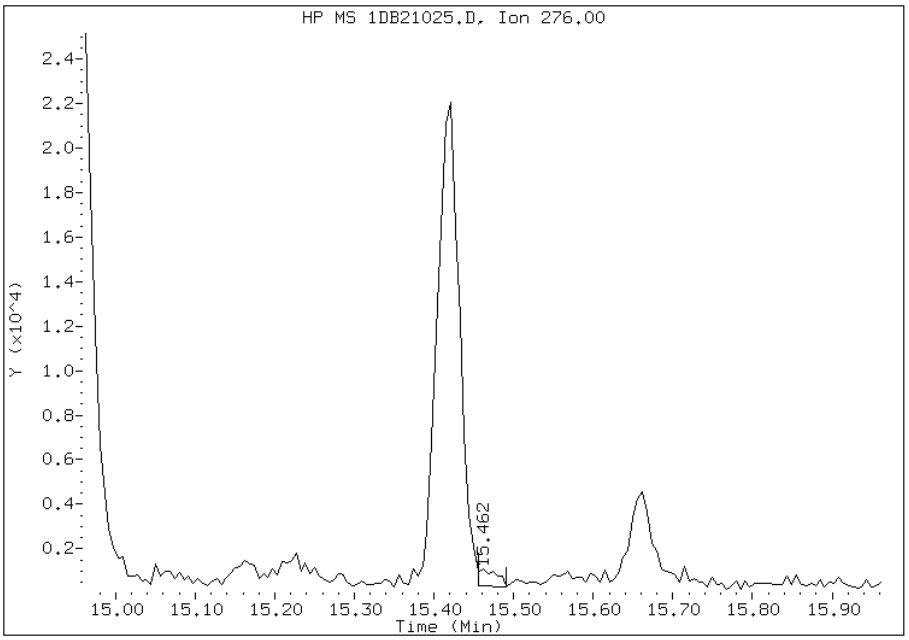
Processing Integration Results

RT: 15.46

Response: 1293

Amount: 0

Conc: 5



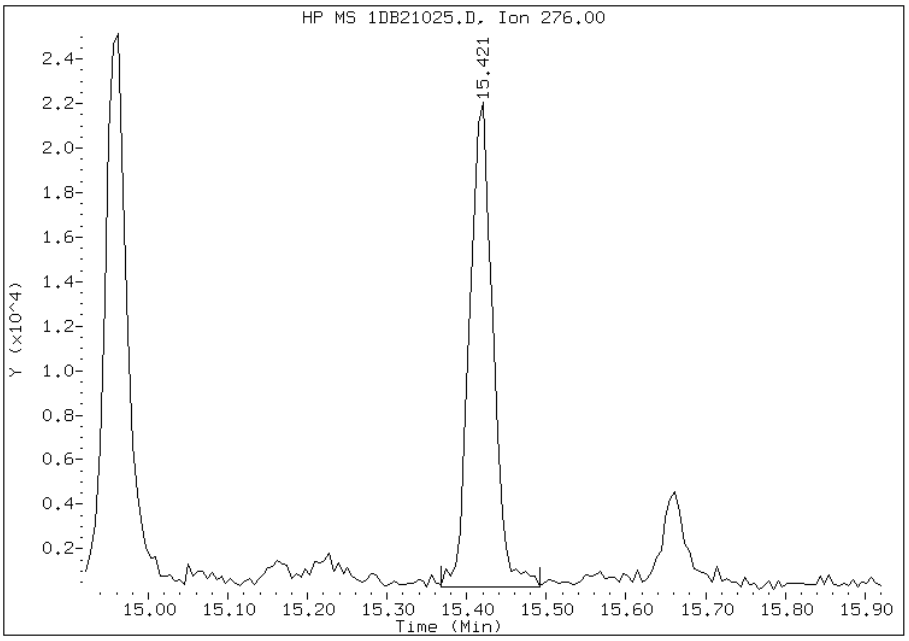
Manual Integration Results

RT: 15.42

Response: 44191

Amount: 1

Conc: 160



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 10:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB21025.D
Inj. Date and Time: 21-FEB-2013 20:14
Instrument ID: BSMSD.i
Client ID: CV0971YY-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

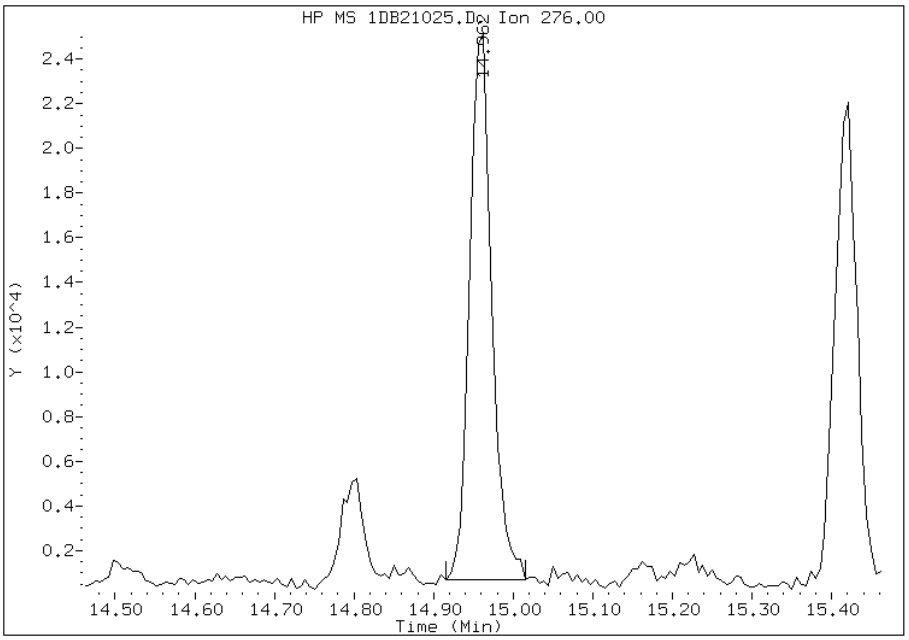
Processing Integration Results

RT: 14.96

Response: 47280

Amount: 1

Conc: 164



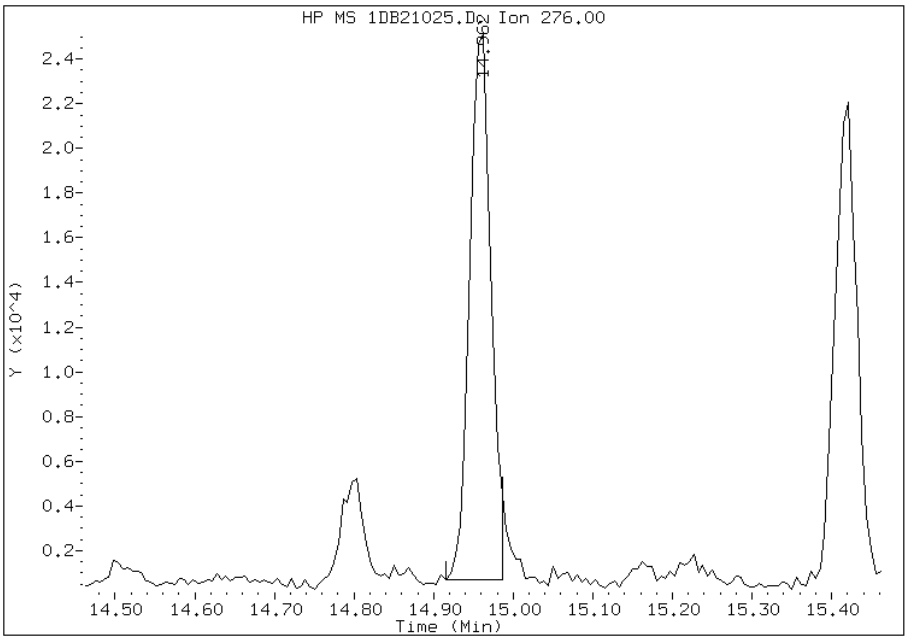
Manual Integration Results

RT: 14.96

Response: 45328

Amount: 1

Conc: 157



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 10:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: CV0971ZZ-CS | Lab Sample ID: 680-87496-46

Matrix: Solid | Lab File ID: 1AB25008.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 14:30

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 14.99(g) | Date Analyzed: 02/25/2013 15:29

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

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

% Moisture: 2.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134820 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	410	U	410	82
208-96-8	Acenaphthylene	70	J	160	20
120-12-7	Anthracene	100		34	17
56-55-3	Benzo[a]anthracene	420		33	16
50-32-8	Benzo[a]pyrene	320		43	21
205-99-2	Benzo[b]fluoranthene	570		50	25
191-24-2	Benzo[g,h,i]perylene	380		82	18
207-08-9	Benzo[k]fluoranthene	170		33	15
218-01-9	Chrysene	450		37	18
53-70-3	Dibenz(a,h)anthracene	100		82	17
206-44-0	Fluoranthene	670		82	16
86-73-7	Fluorene	30	J	82	17
193-39-5	Indeno[1,2,3-cd]pyrene	290		82	29
90-12-0	1-Methylnaphthalene	92	J	160	18
91-57-6	2-Methylnaphthalene	100	J	160	29
91-20-3	Naphthalene	100	J	160	18
85-01-8	Phenanthrene	380		33	16
129-00-0	Pyrene	750		82	15

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\1A022513.b\1AB25008.D
Lab Smp Id: 680-87496-A-46-A Client Smp ID: CV0971ZZ-CS
Inj Date : 25-FEB-2013 15:29
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-A-46-A
Misc Info : 680-87496-A-46-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 5
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14

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	14.990	Weight Extracted
M	2.099	% 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	2.377	2.379	(1.000)	590637	40.0000	
* 6 Acenaphthene-d10	164	3.402	3.404	(1.000)	389635	40.0000	
* 10 Phenanthrene-d10	188	4.337	4.339	(1.000)	593183	40.0000	
$ 14 o-Terphenyl	230	4.615	4.622	(1.064)	20198	2.34005	637.8192
* 18 Chrysene-d12	240	6.346	6.353	(1.000)	344365	40.0000	
* 23 Perylene-d12	264	7.441	7.443	(1.000)	423479	40.0000	
2 Naphthalene	128	2.387	2.389	(1.004)	5253	0.36909	100.6026(Q)
3 2-Methylnaphthalene	141	2.788	2.790	(1.173)	2780	0.37838	103.1329
4 1-Methylnaphthalene	142	2.847	2.849	(1.198)	2773	0.33893	92.3818
5 Acenaphthylene	152	3.317	3.319	(0.975)	3712	0.25515	69.5448
9 Fluorene	166	3.728	3.730	(1.096)	1181	0.11131	30.3394
11 Phenanthrene	178	4.348	4.355	(1.002)	20456	1.38736	378.1482
12 Anthracene	178	4.385	4.387	(1.011)	5425	0.37879	103.2442
13 Carbazole	167	4.540	4.542	(1.047)	3221	0.25477	69.4407
15 Fluoranthene	202	5.208	5.215	(1.201)	36276	2.46065	670.6906

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.374	5.381	(0.847)	27918	2.76397	753.3640
17 Benzo(a)anthracene	228	6.341	6.342	(0.999)	15685	1.52541	415.7758
19 Chrysene	228	6.362	6.369	(1.003)	15025	1.63383	445.3279
20 Benzo(b)fluoranthene	252	7.163	7.165	(0.963)	22316	2.07878	566.6042(M)
21 Benzo(k)fluoranthene	252	7.174	7.181	(0.964)	6626	0.61351	167.2209(QM)
22 Benzo(a)pyrene	252	7.388	7.390	(0.993)	11597	1.17962	321.5246
24 Indeno(1,2,3-cd)pyrene	276	8.157	8.164	(1.096)	8866	1.05119	286.5189(M)
25 Dibenzo(a,h)anthracene	278	8.168	8.180	(1.098)	3311	0.37671	102.6793
26 Benzo(g,h,i)perylene	276	8.365	8.367	(1.124)	12465	1.38951	378.7345

QC Flag Legend

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

Data File: 1AB25008.D

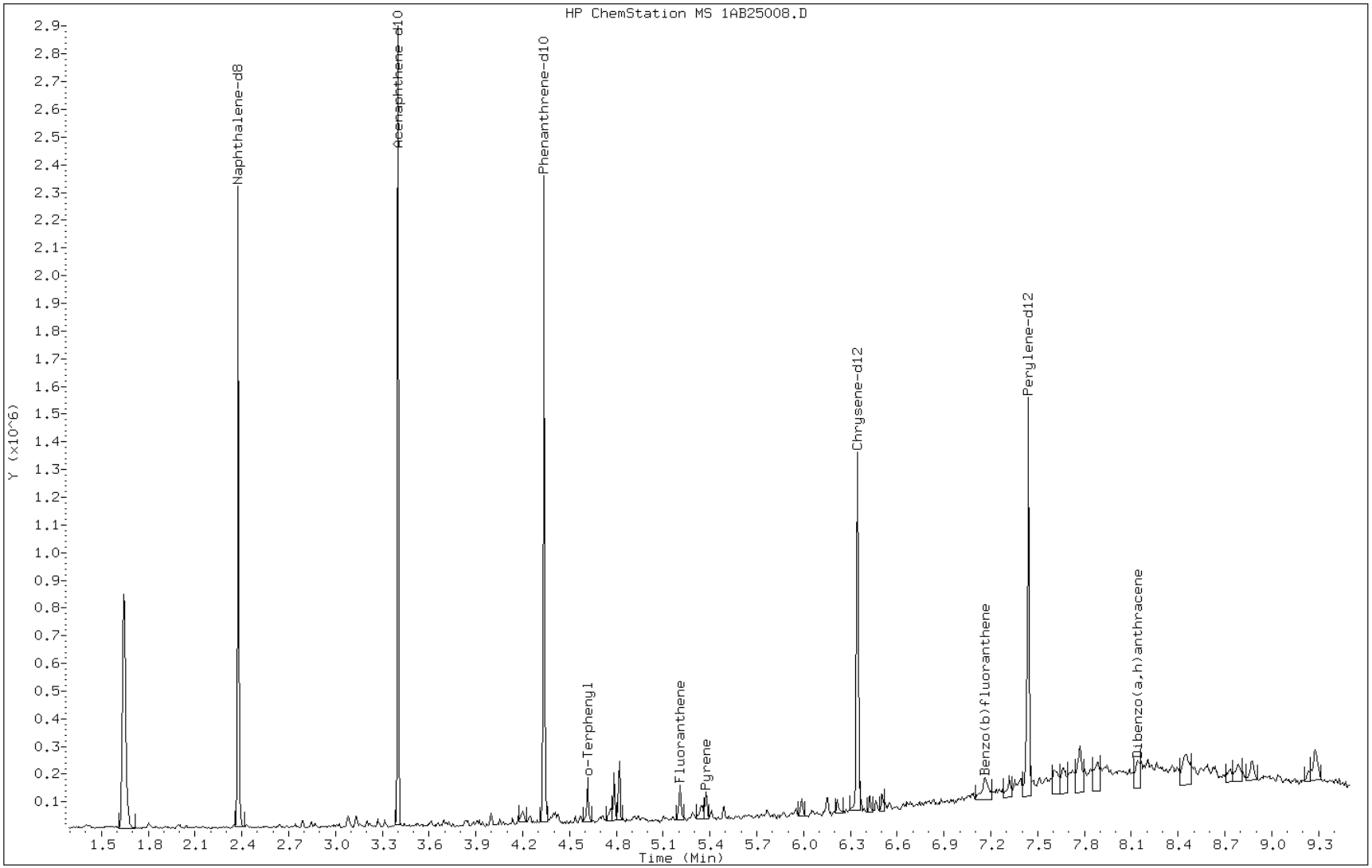
Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A

Operator: SCC



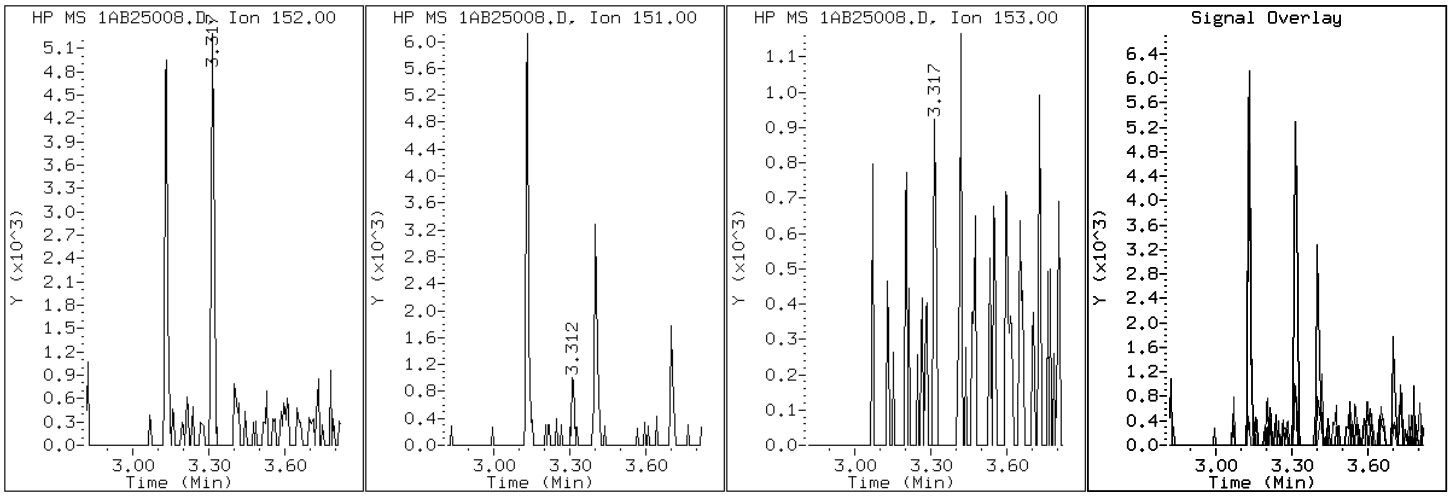
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

5 Acenaphthylene



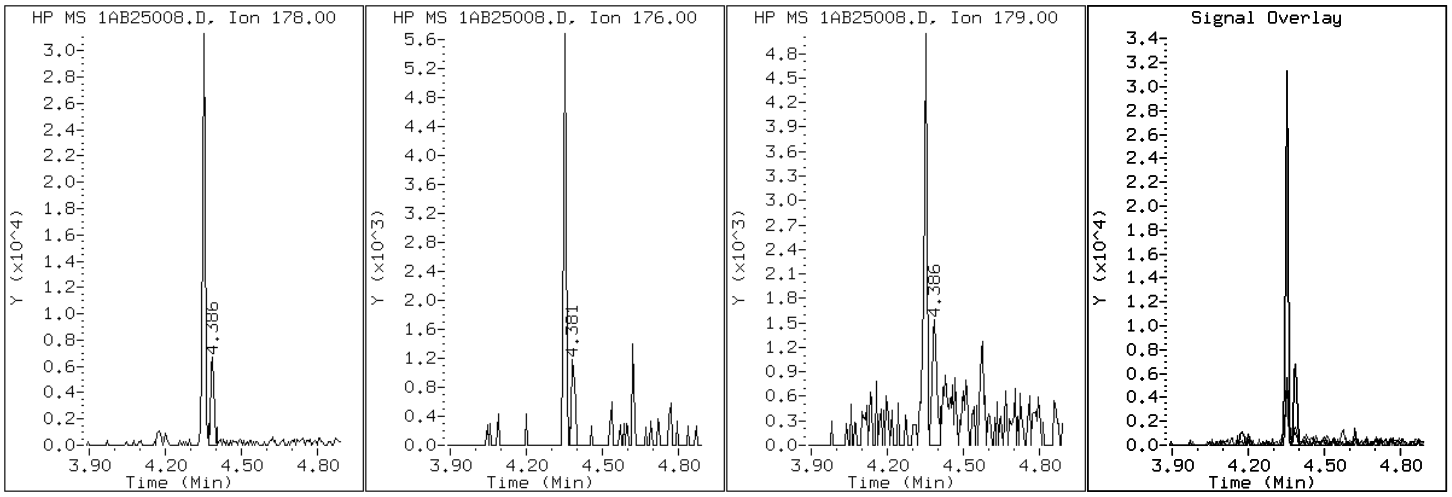
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

12 Anthracene



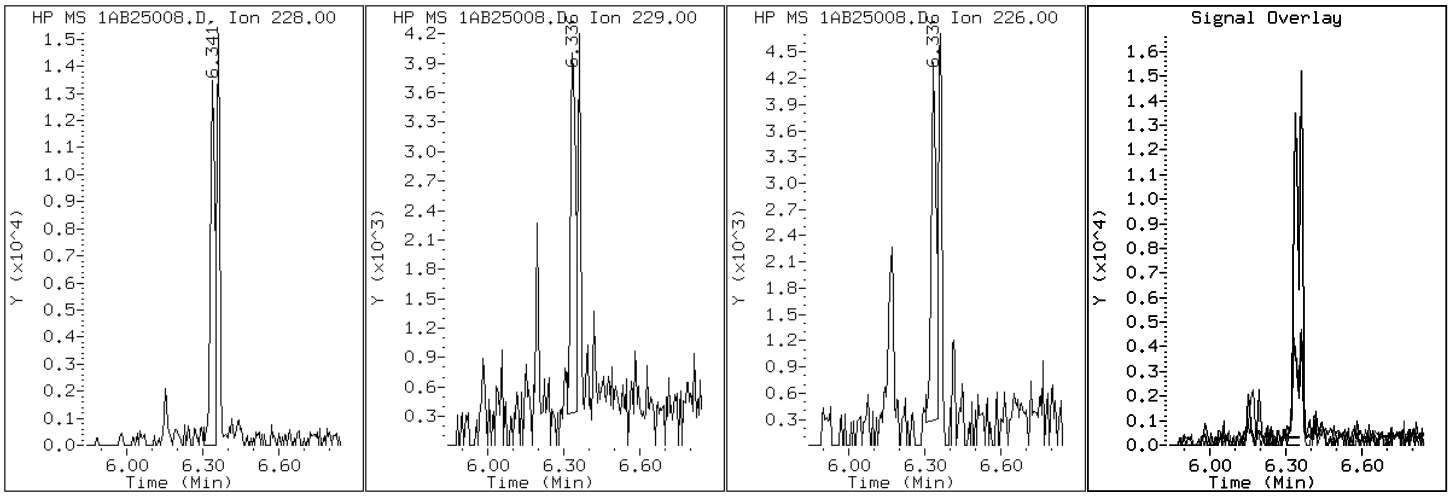
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

17 Benzo(a)anthracene



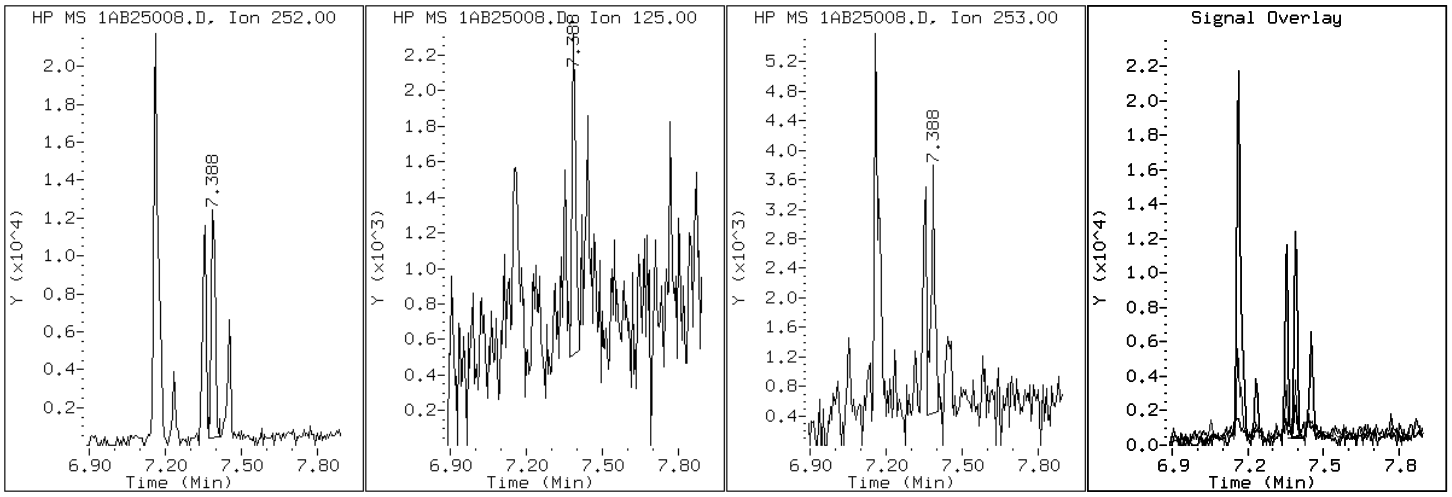
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

22 Benzo(a)pyrene



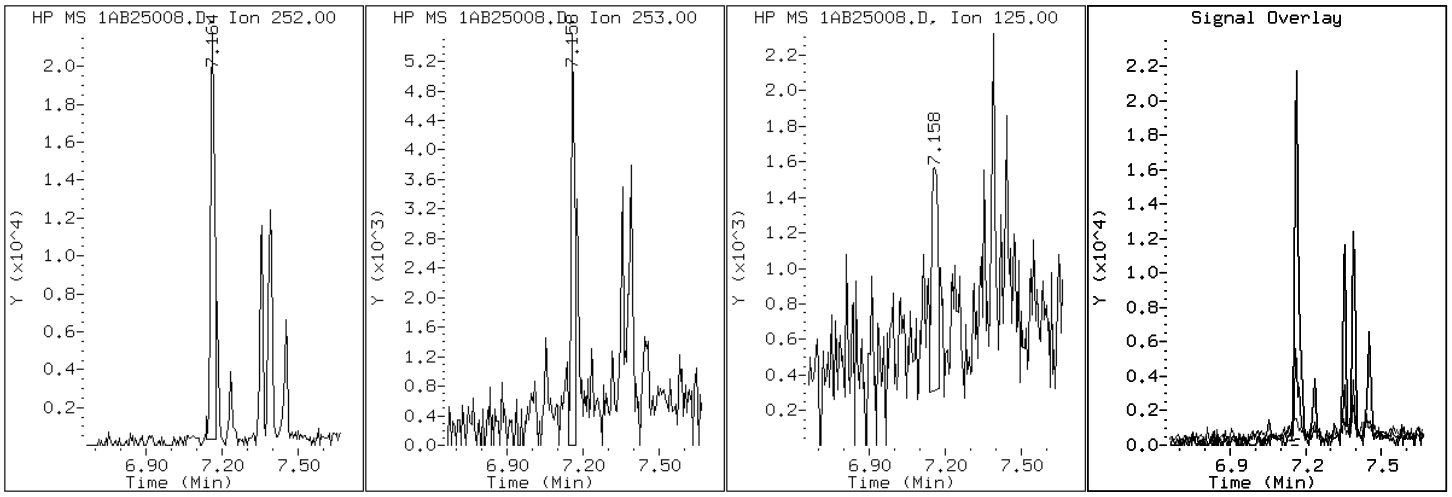
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

20 Benzo(b)fluoranthene



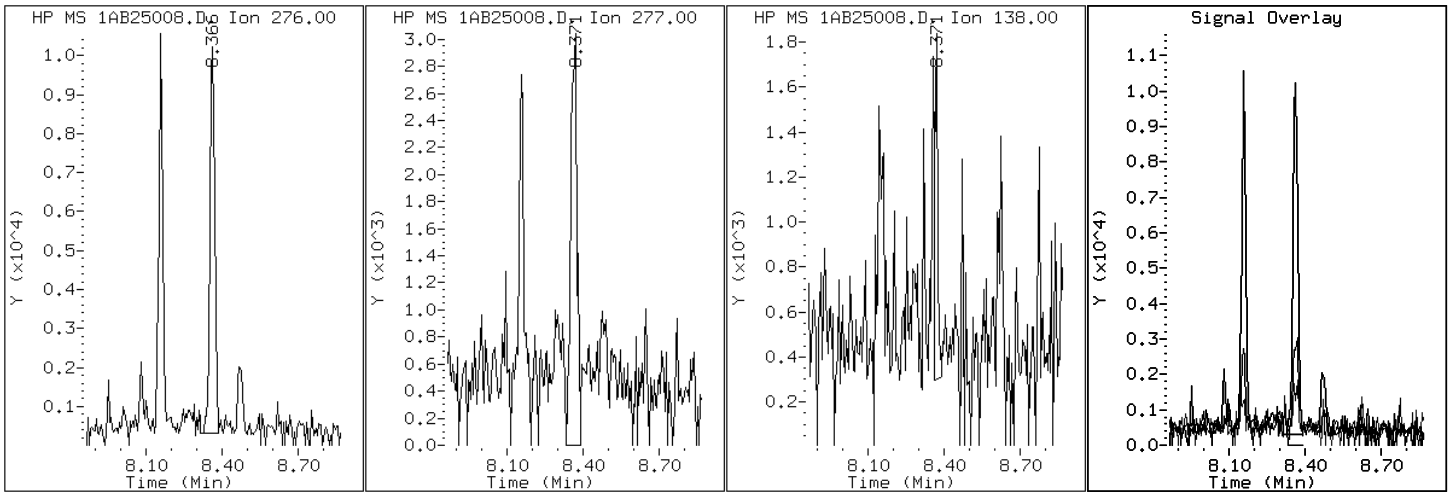
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

26 Benzo(g,h,i)perylene



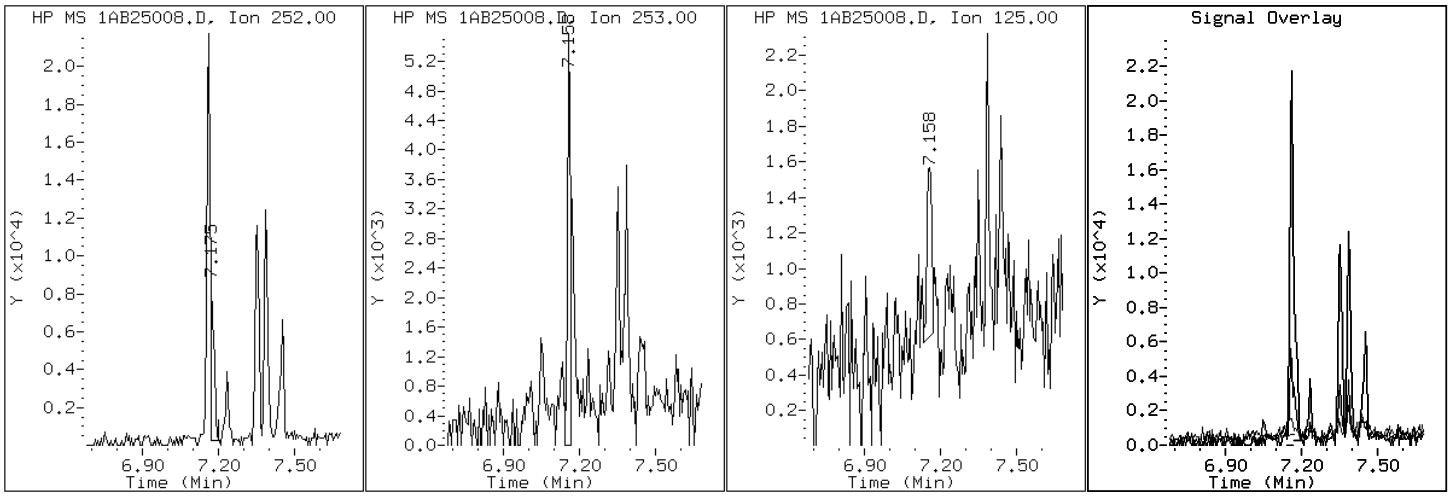
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

21 Benzo(k)fluoranthene



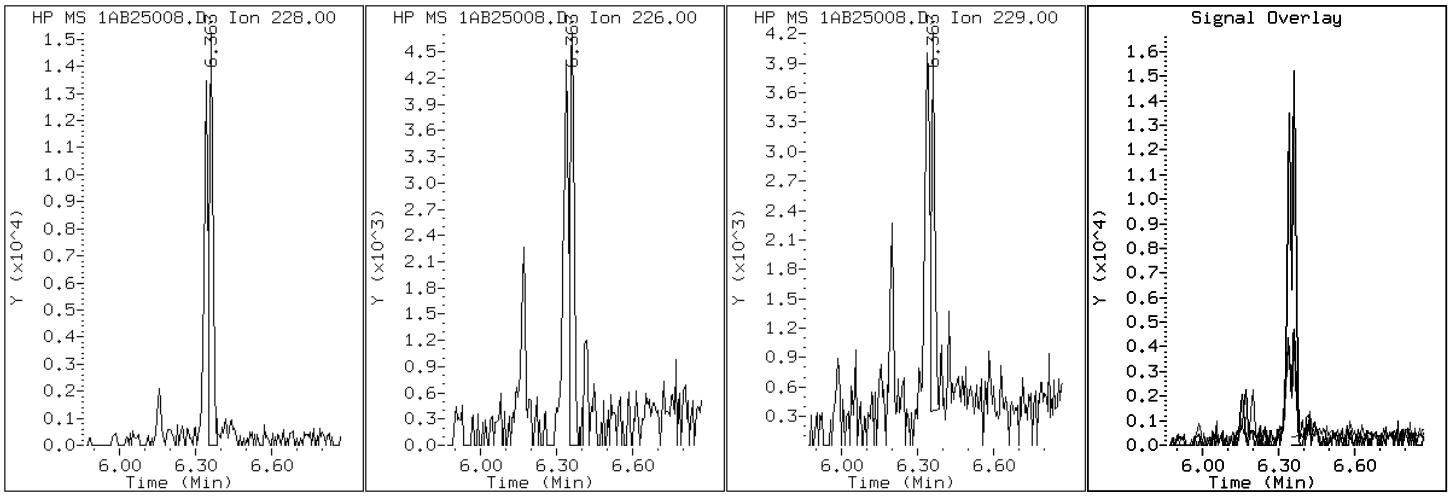
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

19 Chrysene



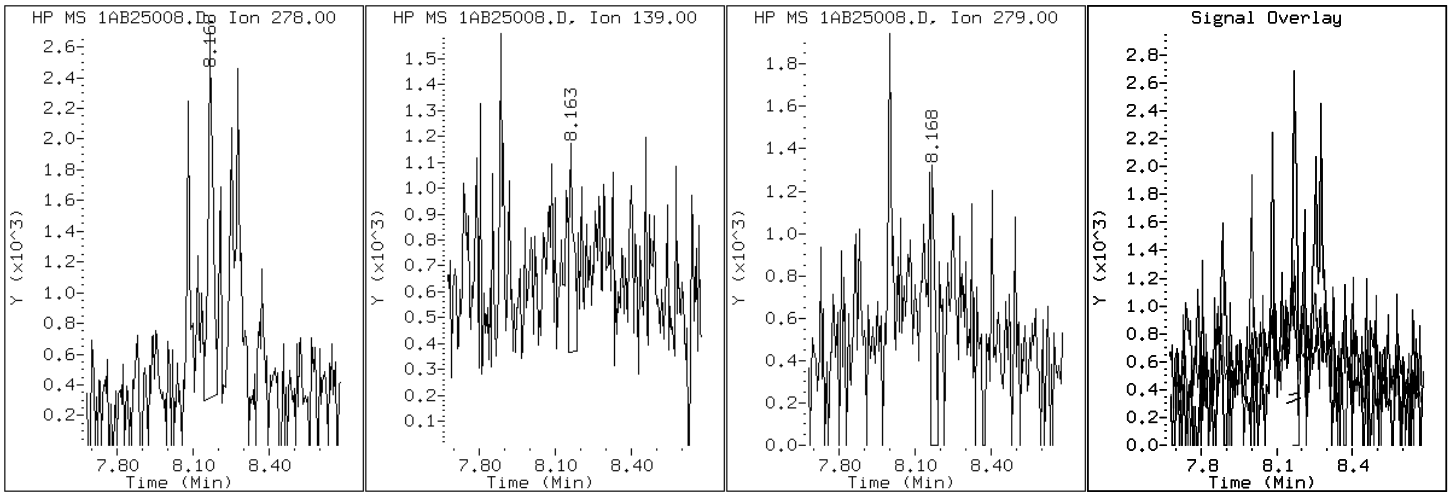
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

25 Dibenzo(a,h)anthracene



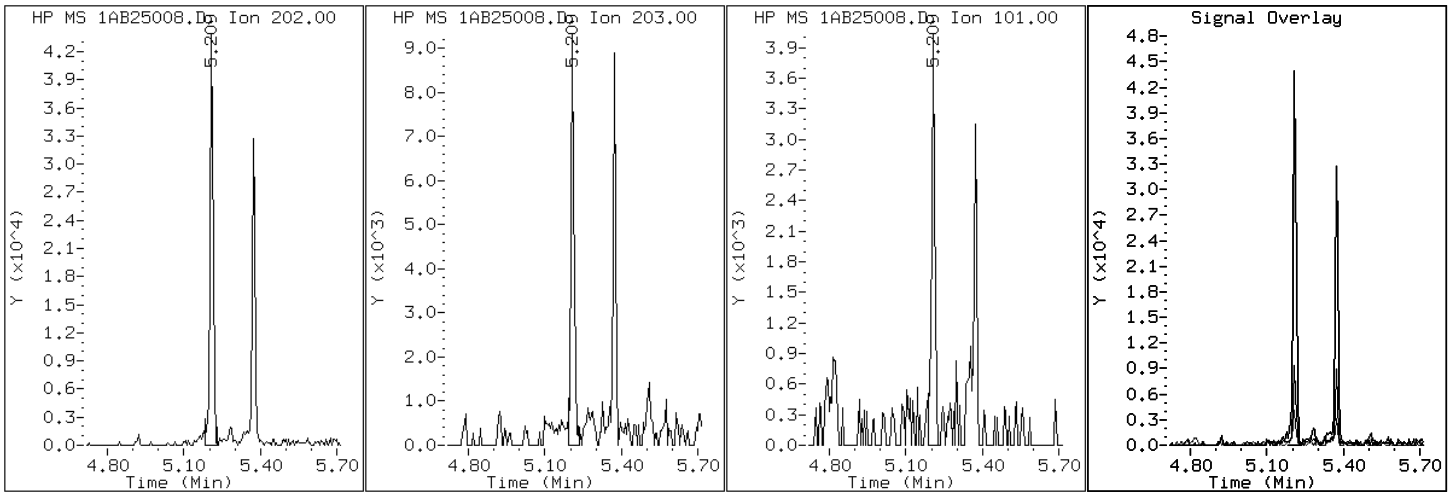
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

15 Fluoranthene



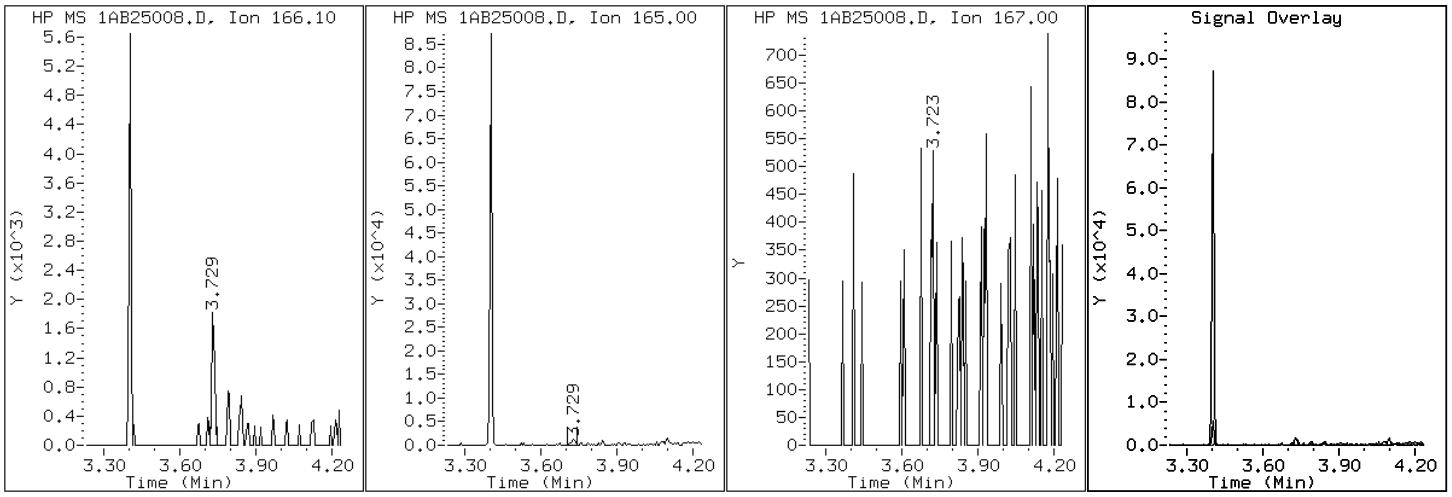
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

9 Fluorene



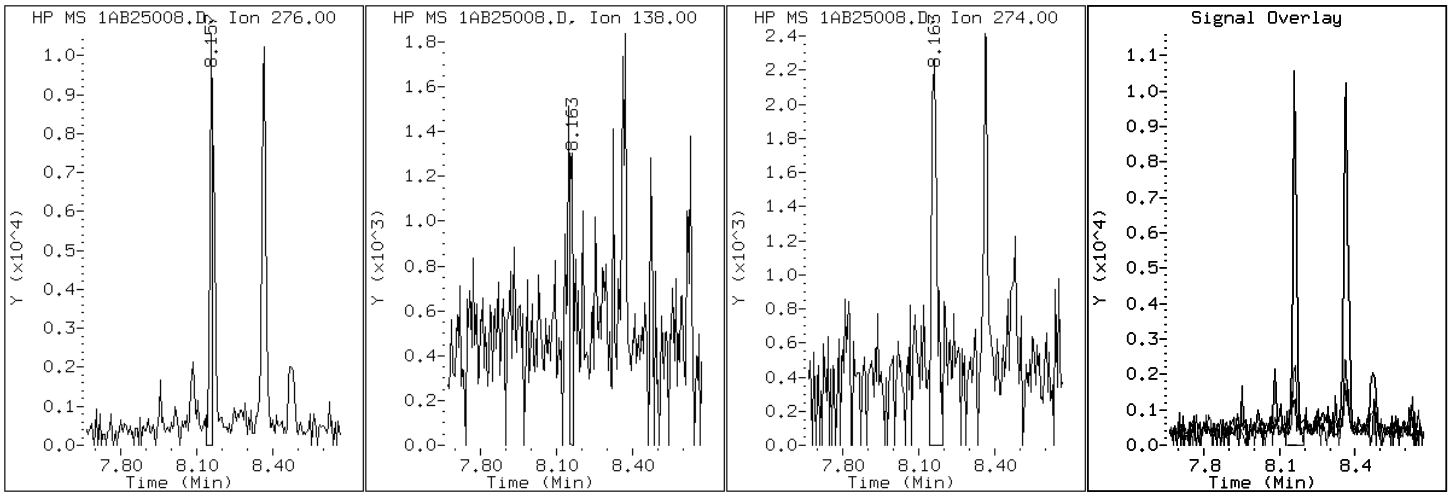
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

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



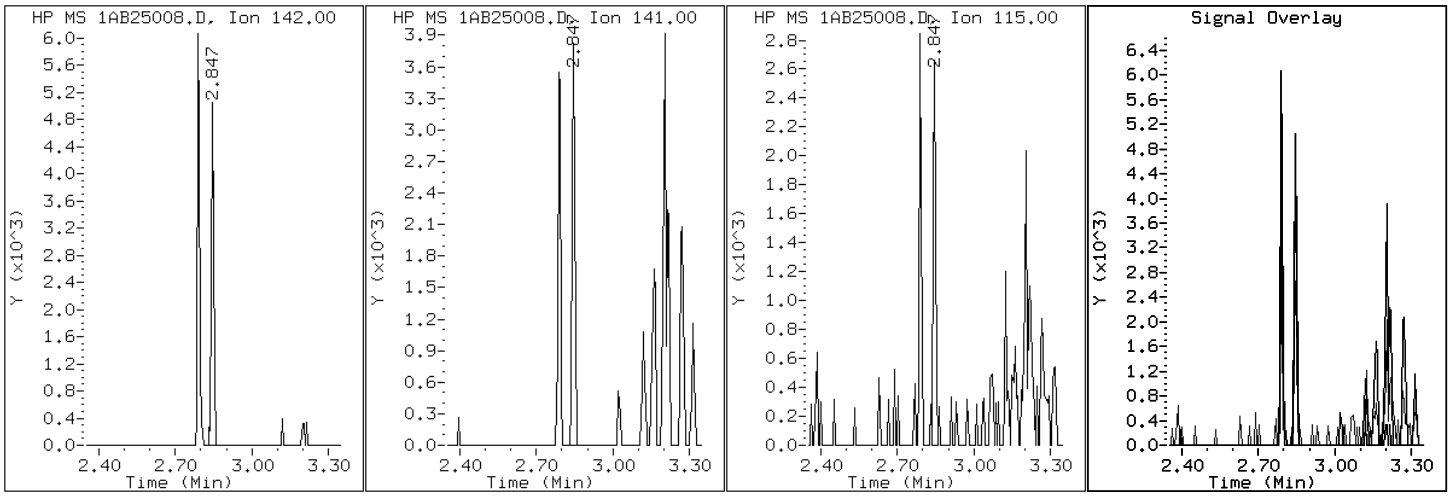
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

4 1-Methylnaphthalene



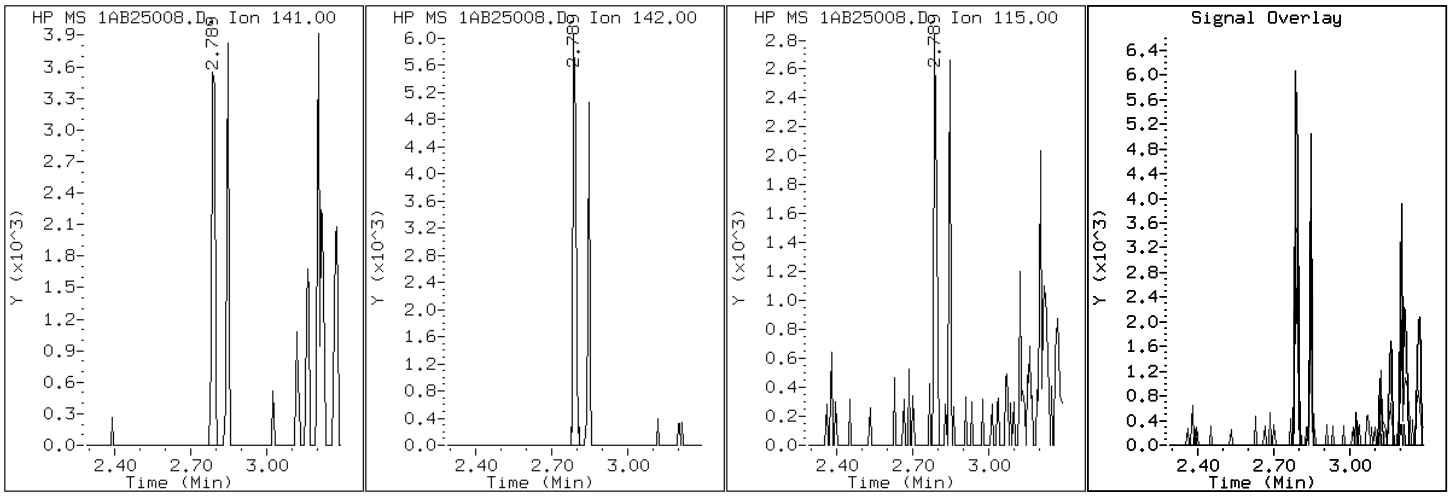
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

3 2-Methylnaphthalene



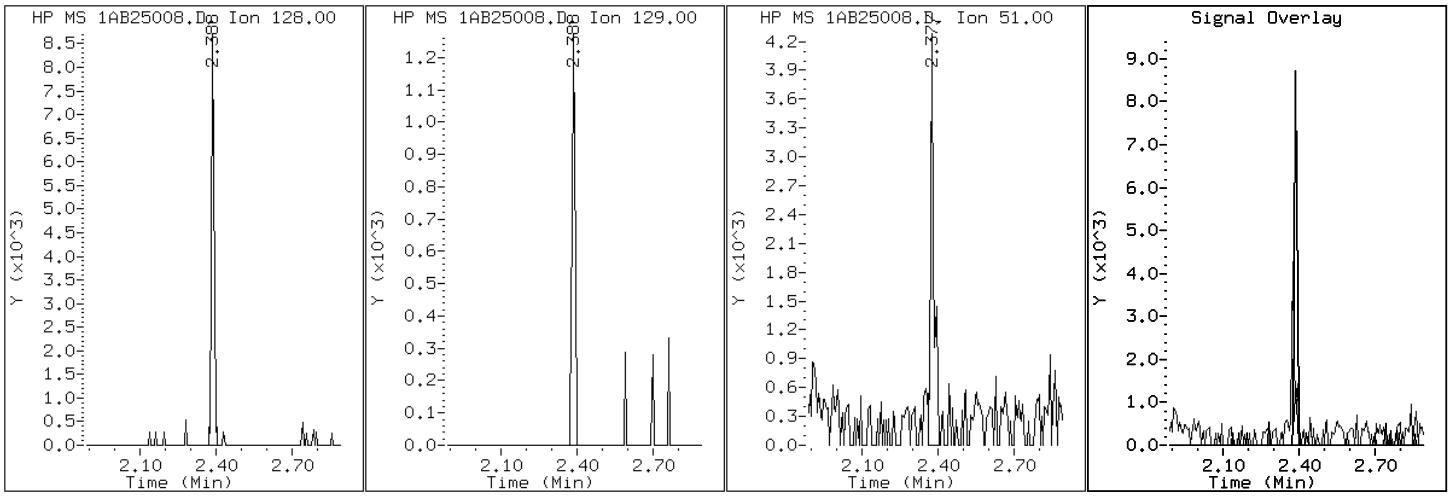
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

2 Naphthalene



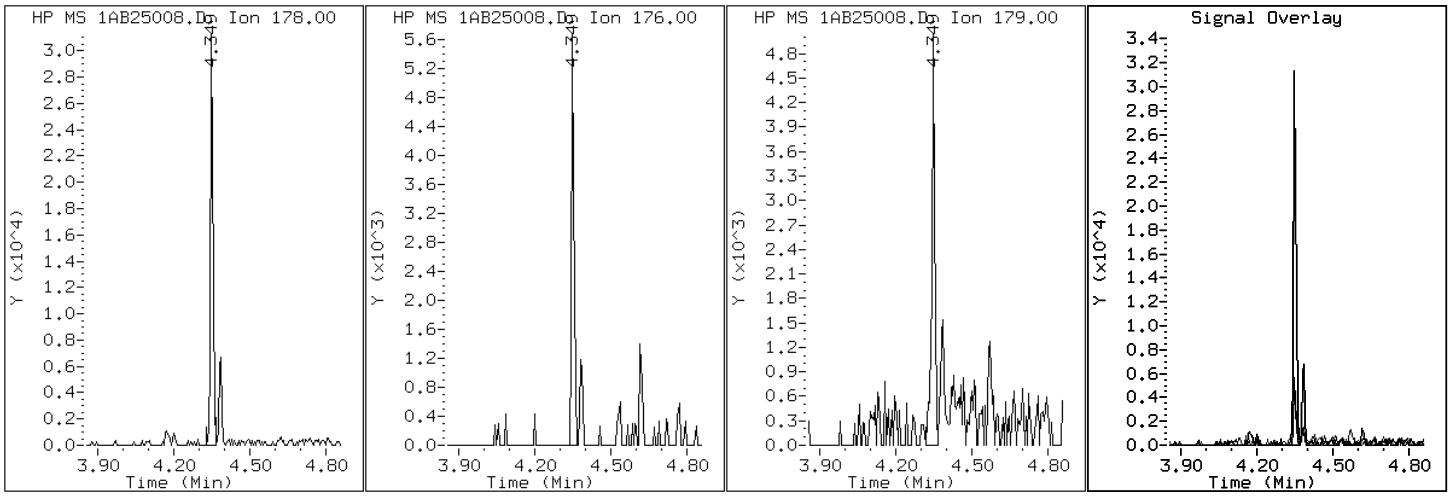
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

11 Phenanthrene



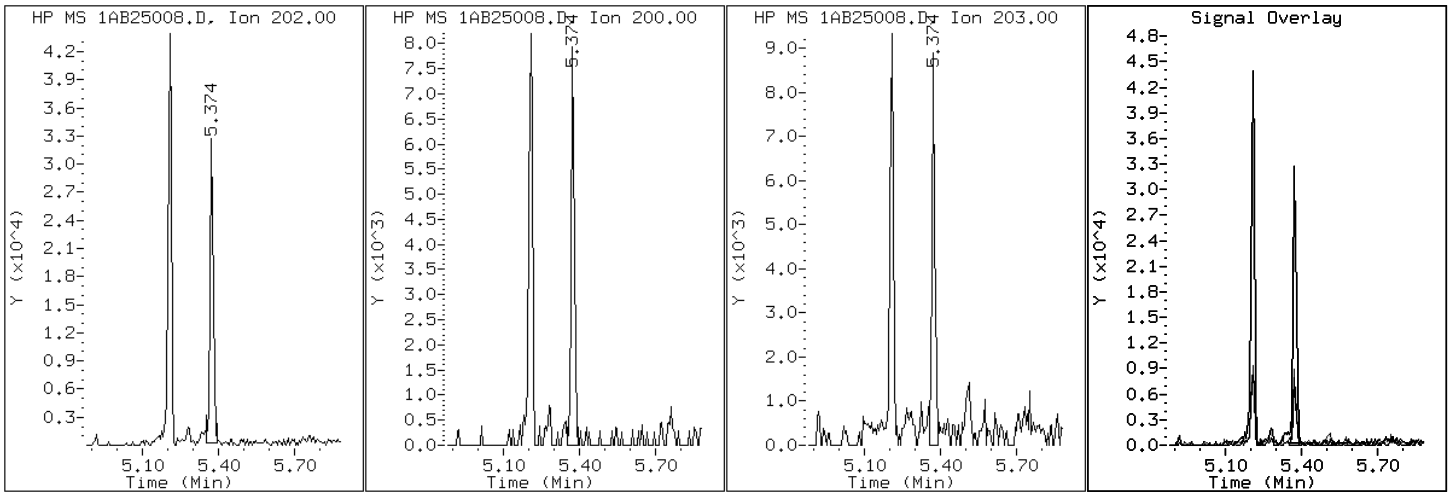
Data File: 1AB25008.D

Date: 25-FEB-2013 15:29

Client ID: CV0971ZZ-CS Instrument: BSMA5973.i

Sample Info: 680-87496-A-46-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB25008.D
Inj. Date and Time: 25-FEB-2013 15:29
Instrument ID: BSMA5973.i
Client ID: CV0971ZZ-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

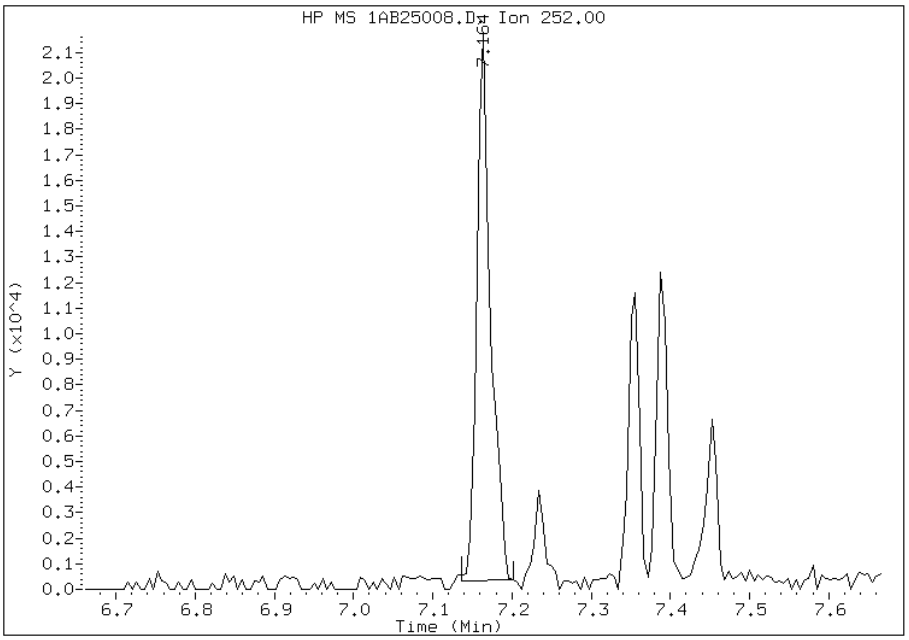
Processing Integration Results

RT: 7.16

Response: 26059

Amount: 2

Conc: 662



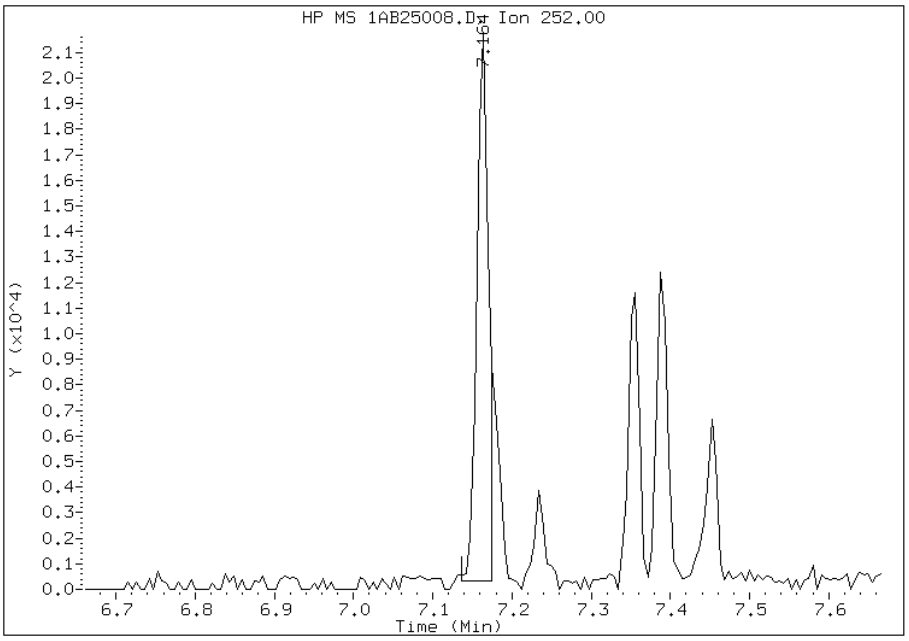
Manual Integration Results

RT: 7.16

Response: 22316

Amount: 2

Conc: 567



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 17:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB25008.D
Inj. Date and Time: 25-FEB-2013 15:29
Instrument ID: BSMA5973.i
Client ID: CV0971ZZ-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

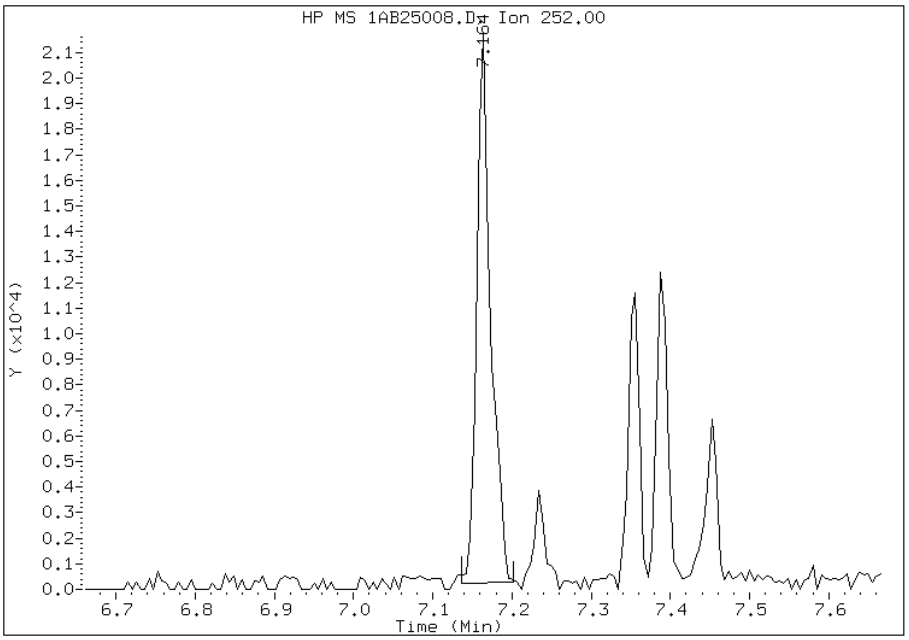
Processing Integration Results

RT: 7.16

Response: 26457

Amount: 2

Conc: 668



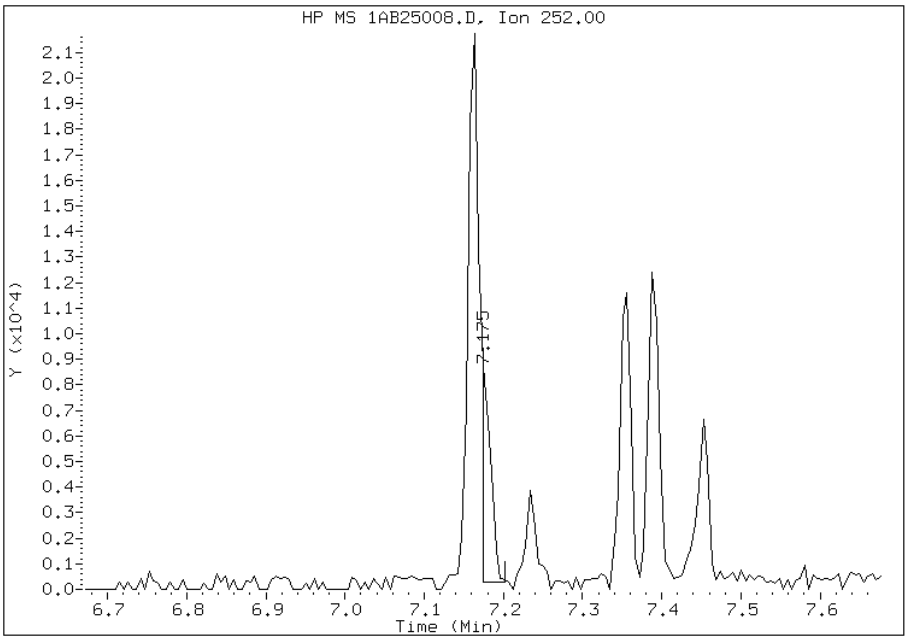
Manual Integration Results

RT: 7.17

Response: 6626

Amount: 1

Conc: 167



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 17:01
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB25008.D
Inj. Date and Time: 25-FEB-2013 15:29
Instrument ID: BSMA5973.i
Client ID: CV0971ZZ-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

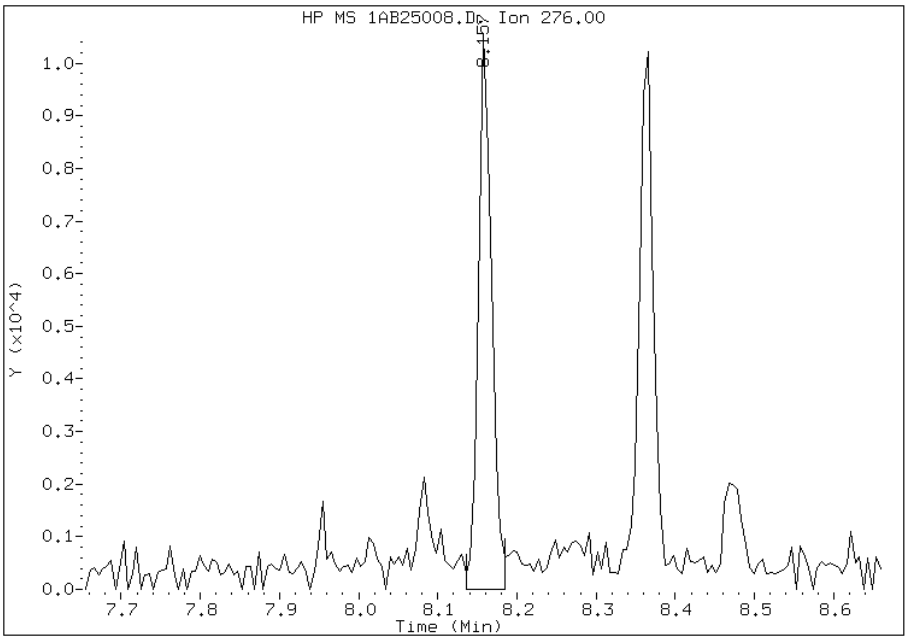
Processing Integration Results

RT: 8.16

Response: 12102

Amount: 1

Conc: 391



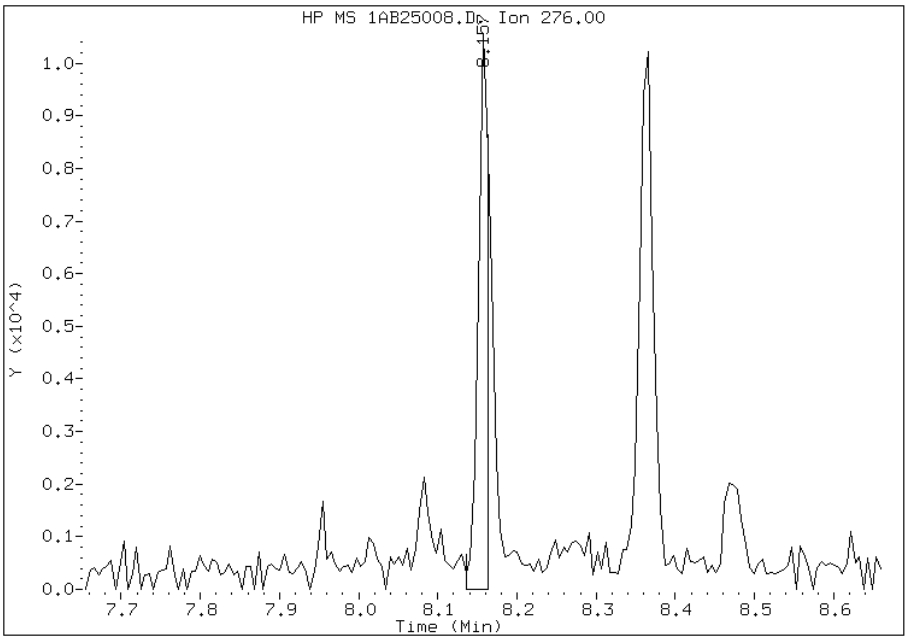
Manual Integration Results

RT: 8.16

Response: 8866

Amount: 1

Conc: 287



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 17:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: CV0971AAA-CS | Lab Sample ID: 680-87496-47

Matrix: Solid | Lab File ID: 1DB21027.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 14:33

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.06(g) | Date Analyzed: 02/21/2013 20:59

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

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

% Moisture: 1.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	90	J	410	81
208-96-8	Acenaphthylene	78	J	160	20
120-12-7	Anthracene	240		34	17
56-55-3	Benzo[a]anthracene	880		32	16
50-32-8	Benzo[a]pyrene	830		42	21
205-99-2	Benzo[b]fluoranthene	1500		49	25
191-24-2	Benzo[g,h,i]perylene	440		81	18
207-08-9	Benzo[k]fluoranthene	560		32	15
218-01-9	Chrysene	1000		36	18
53-70-3	Dibenz(a,h)anthracene	140		81	17
206-44-0	Fluoranthene	2000		81	16
86-73-7	Fluorene	80	J	81	17
193-39-5	Indeno[1,2,3-cd]pyrene	430		81	29
90-12-0	1-Methylnaphthalene	140	J	160	18
91-57-6	2-Methylnaphthalene	160		160	29
91-20-3	Naphthalene	120	J	160	18
85-01-8	Phenanthrene	1100		32	16
129-00-0	Pyrene	1500		81	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	106		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21027.D
Lab Smp Id: 680-87496-A-47-A Client Smp ID: CV0971AAA-CS
Inj Date : 21-FEB-2013 20:59
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-47-A
Misc Info : 680-87496-A-47-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 27
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	1.724	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.196	6.195	(1.000)	3225980	40.0000	
* 6 Acenaphthene-d10	164	7.864	7.863	(1.000)	1946962	40.0000	
* 9 Phenanthrene-d10	188	9.127	9.127	(1.000)	3214643	40.0000	
$ 13 o-Terphenyl	230	9.427	9.432	(1.033)	126954	2.65983	720
* 17 Chrysene-d12	240	11.472	11.477	(1.000)	3132889	40.0000	
* 22 Perylene-d12	264	13.358	13.363	(1.000)	2835811	40.0000	
2 Naphthalene	128	6.213	6.212	(1.003)	38167	0.44737	120
3 2-Methylnaphthalene	142	6.912	6.912	(1.116)	31768	0.58628	160
4 1-Methylnaphthalene	142	7.006	7.006	(1.131)	26339	0.51677	140
5 Acenaphthylene	152	7.735	7.734	(0.984)	24400	0.29027	78
7 Acenaphthene	154	7.888	7.893	(1.003)	17028	0.33215	90
8 Fluorene	166	8.328	8.333	(1.059)	18138	0.29777	80
10 Phenanthrene	178	9.139	9.144	(1.001)	359276	3.91199	1000
11 Anthracene	178	9.180	9.185	(1.006)	79218	0.88038	240

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.315	9.320	(1.021)	54556	0.68455	180
14 Fluoranthene	202	10.126	10.125	(1.109)	671942	7.30411	2000
15 Pyrene	202	10.314	10.313	(0.899)	533687	5.45594	1500
16 Benzo(a)anthracene	228	11.454	11.447	(0.998)	297071	3.24173	880
18 Chrysene	228	11.495	11.500	(1.002)	325737	3.68889	1000
19 Benzo(b)fluoranthene	252	12.794	12.793	(0.958)	386355	5.36701	1400
20 Benzo(k)fluoranthene	252	12.823	12.840	(0.960)	157850	2.07592	560
21 Benzo(a)pyrene	252	13.252	13.263	(0.992)	218031	3.07192	830
23 Indeno(1,2,3-cd)pyrene	276	14.968	14.990	(1.121)	120972	1.59685	430(M)
24 Dibenzo(a,h)anthracene	278	14.991	15.026	(1.122)	36468	0.52460	140
25 Benzo(g,h,i)perylene	276	15.426	15.460	(1.155)	116752	1.61077	440(M)

QC Flag Legend

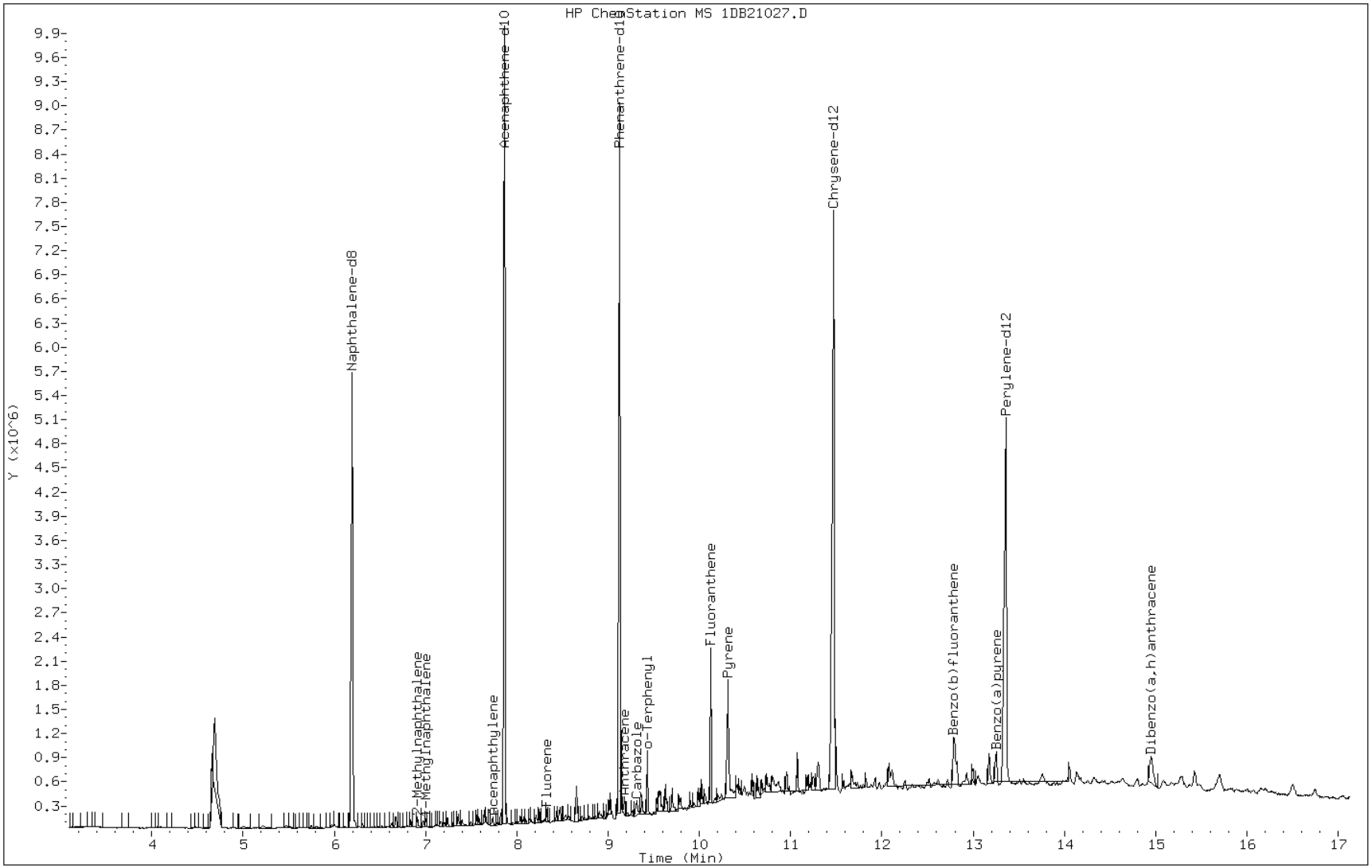
M - Compound response manually integrated.

Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC



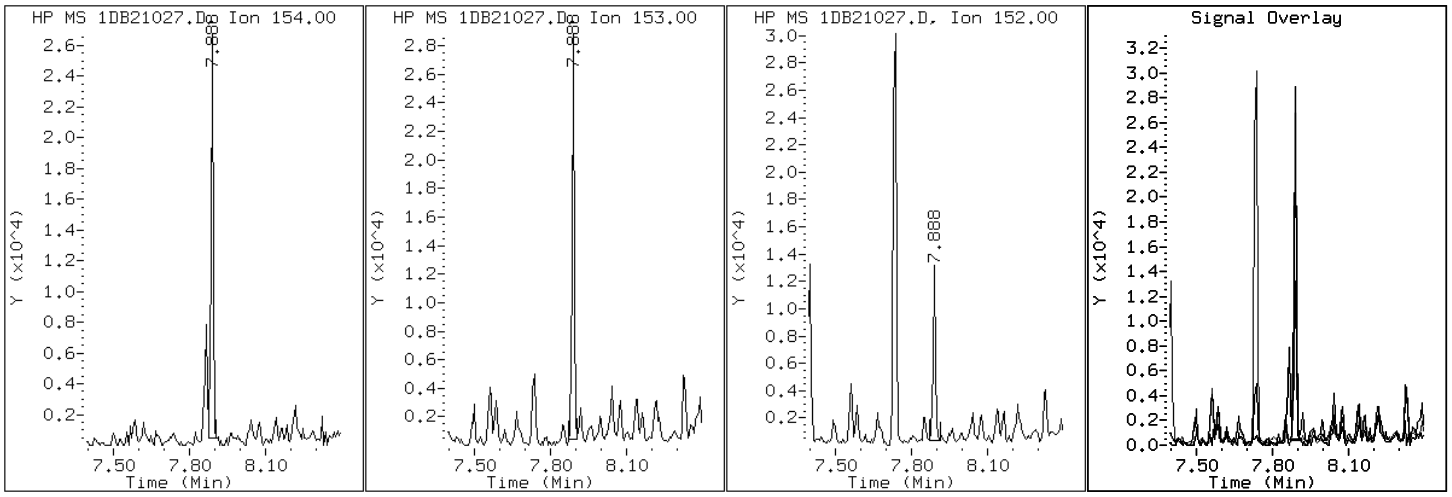
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

7 Acenaphthene



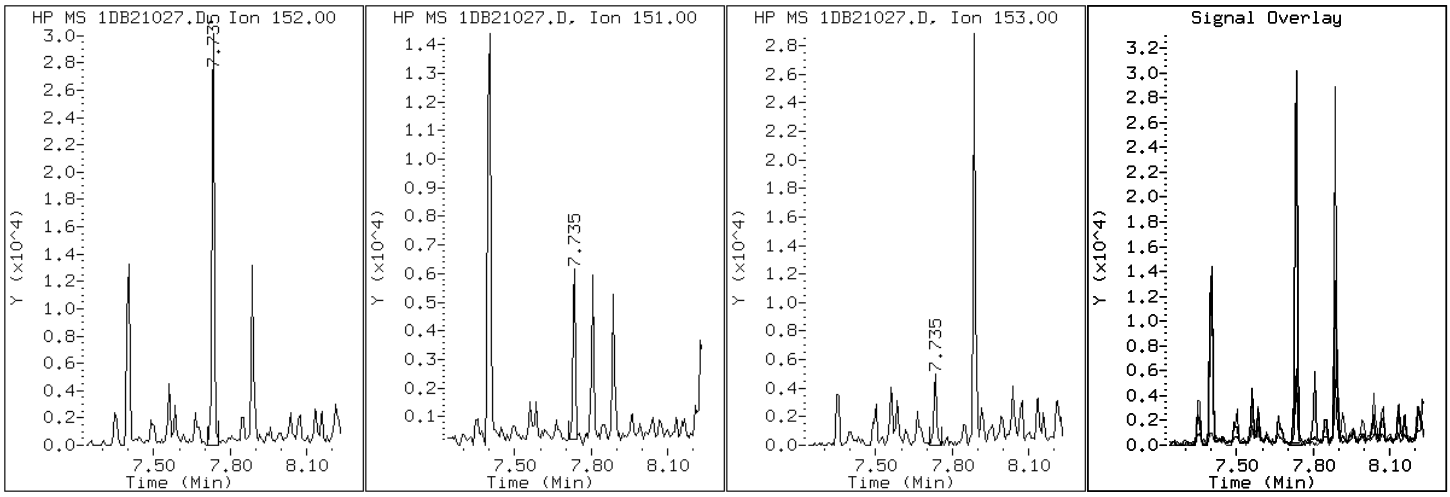
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

5 Acenaphthylene



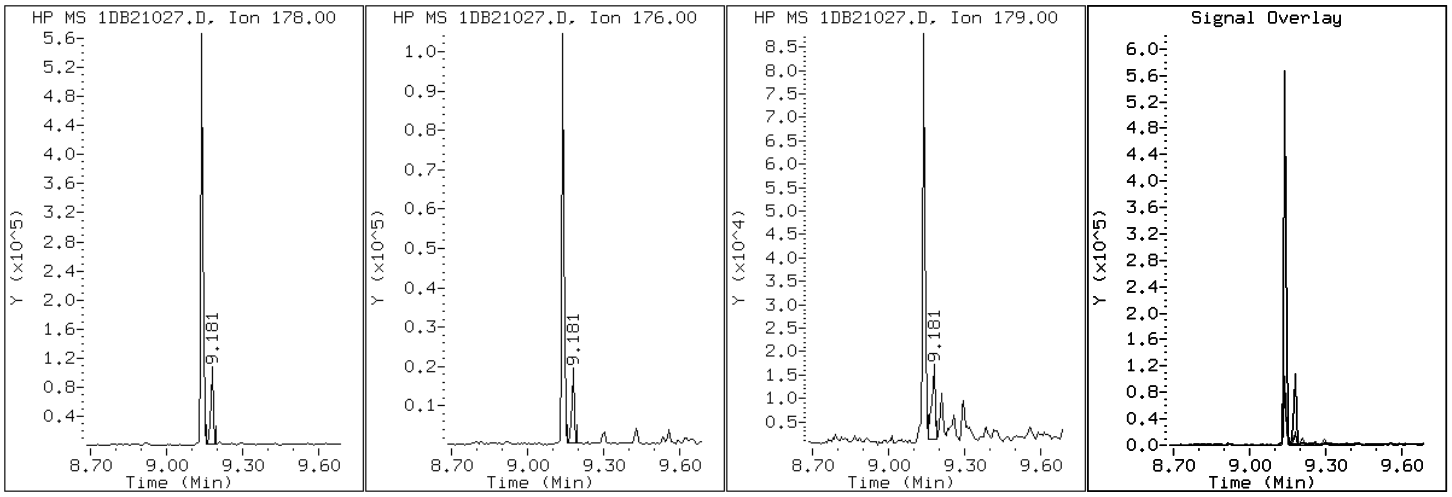
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

11 Anthracene



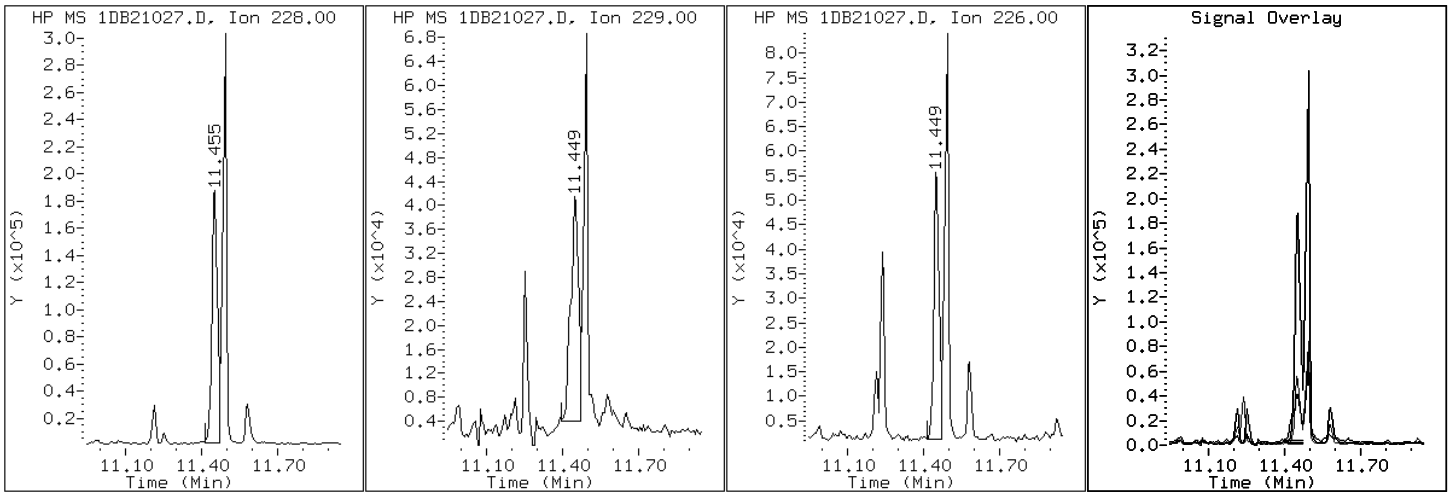
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

16 Benzo(a)anthracene



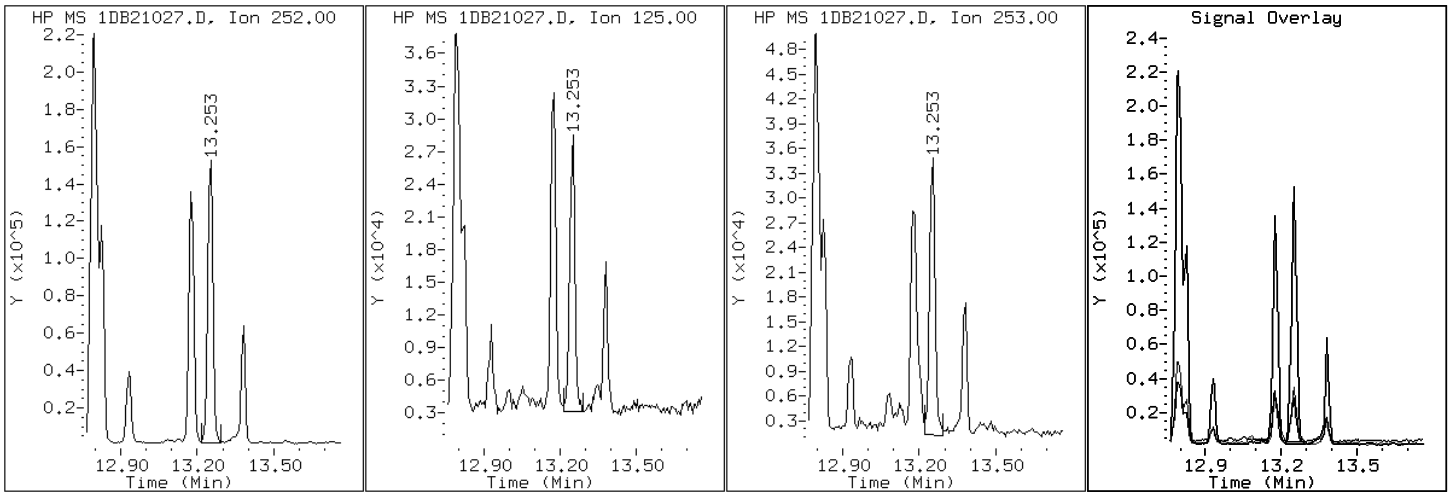
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

21 Benzo(a)pyrene



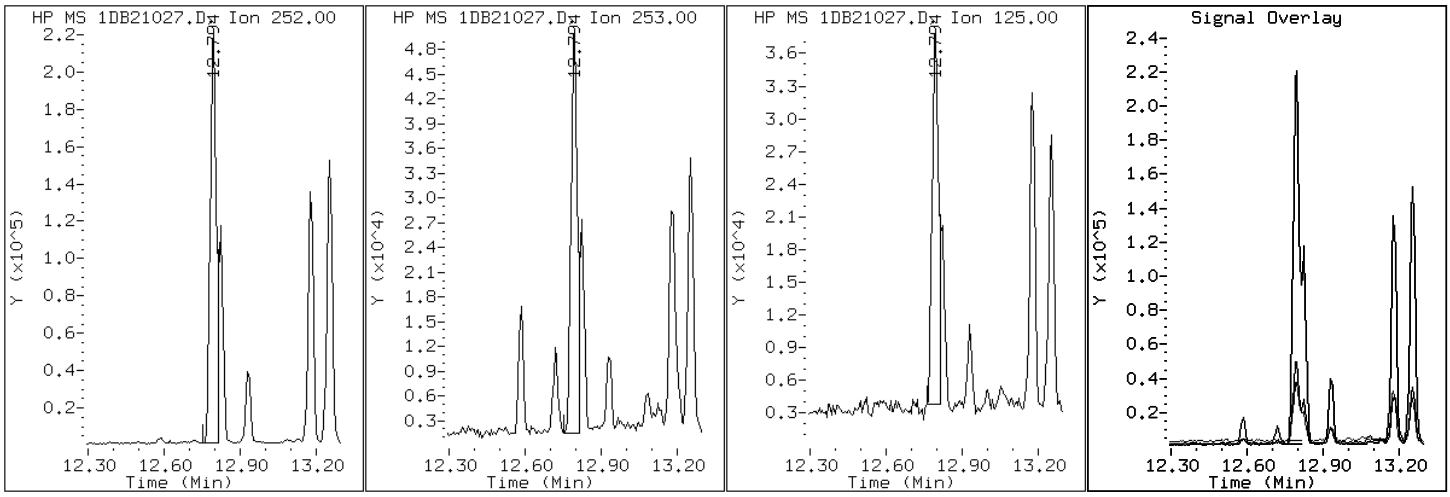
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

19 Benzo(b)fluoranthene



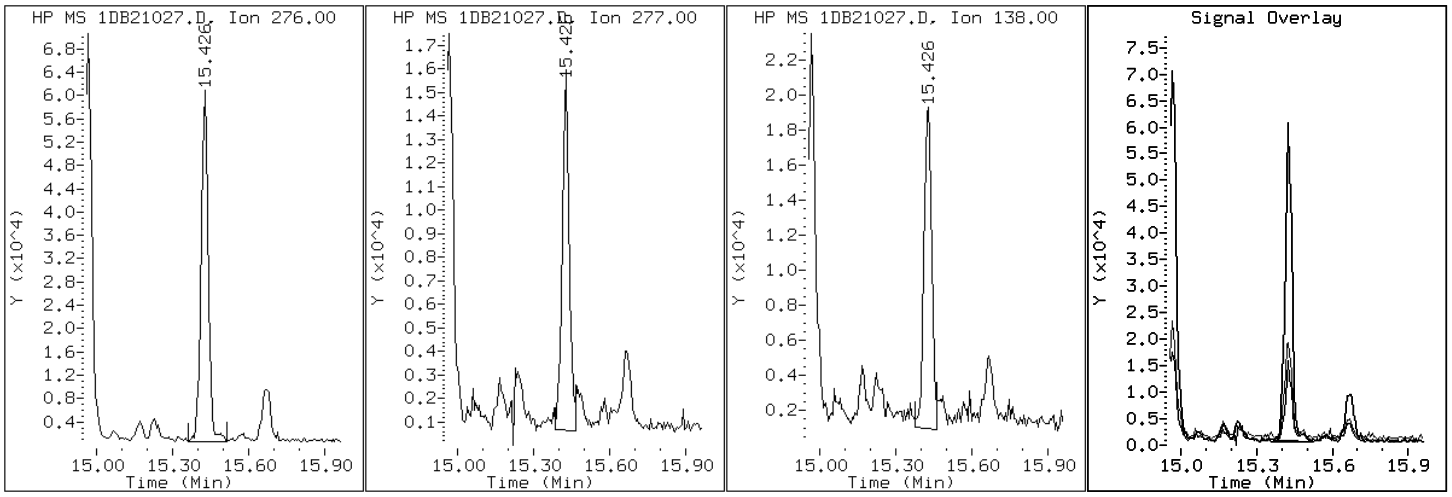
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

25 Benzo(g,h,i)perylene



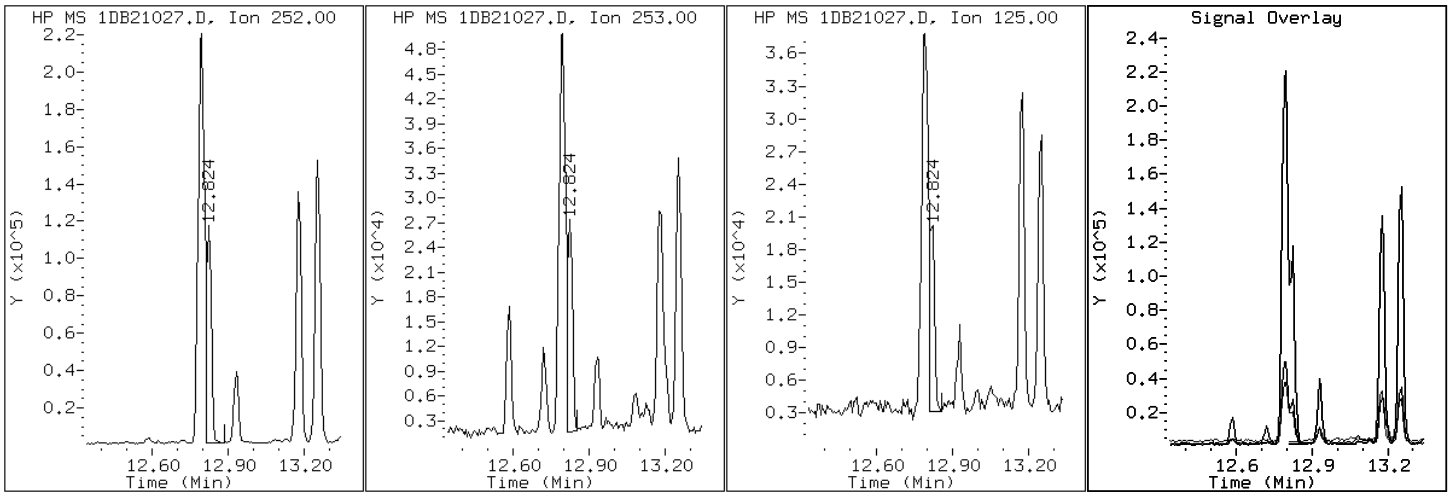
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

20 Benzo(k)fluoranthene



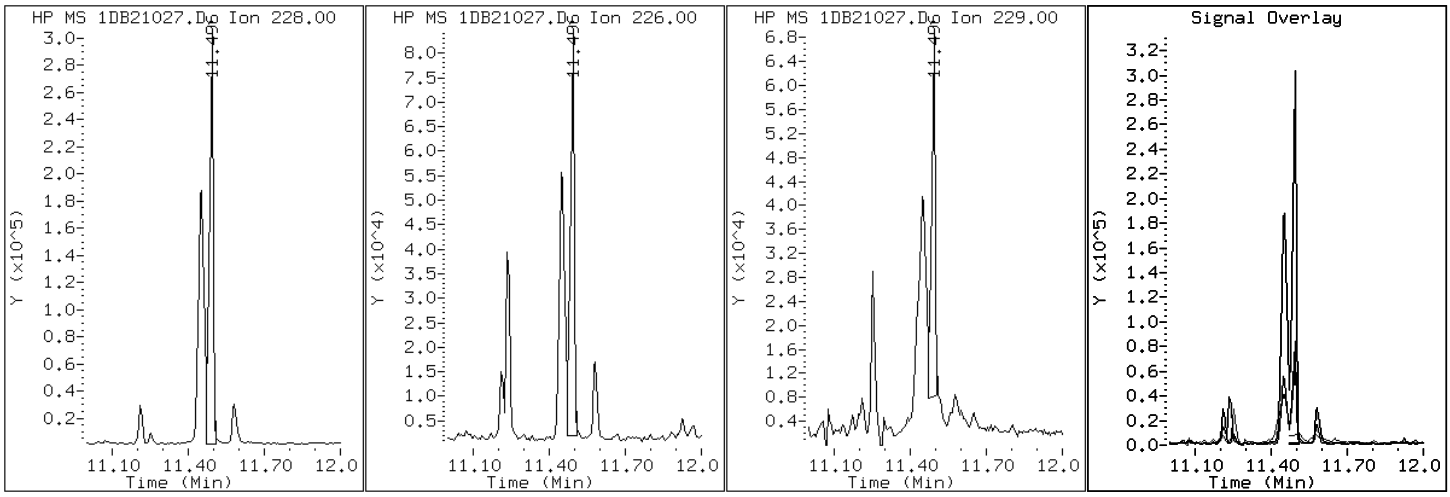
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

18 Chrysene



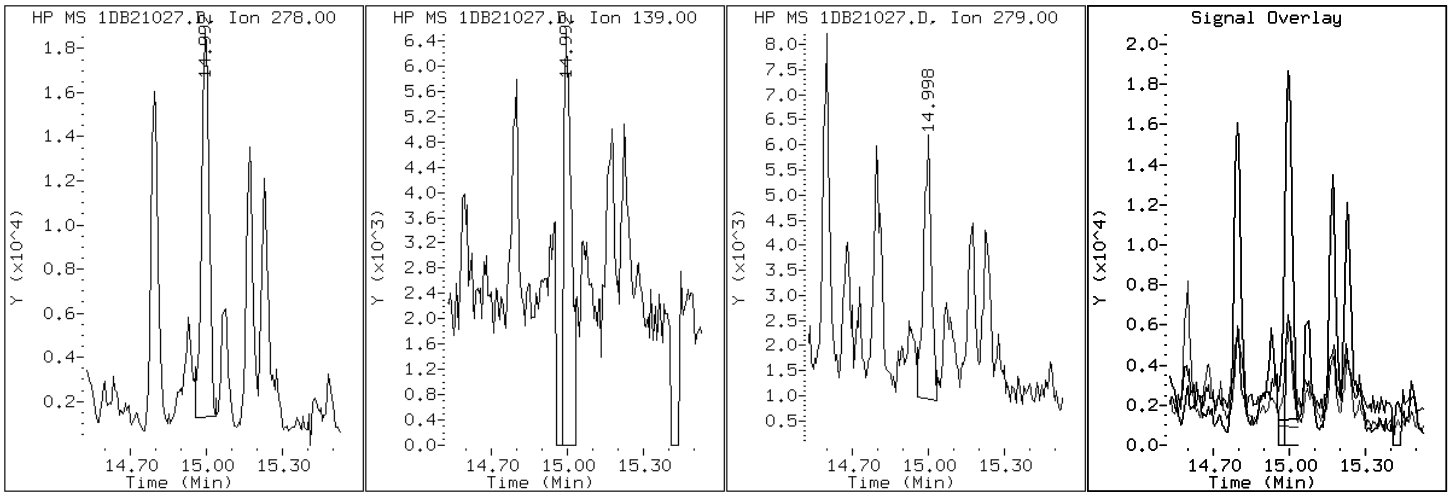
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

24 Dibenzo(a,h)anthracene



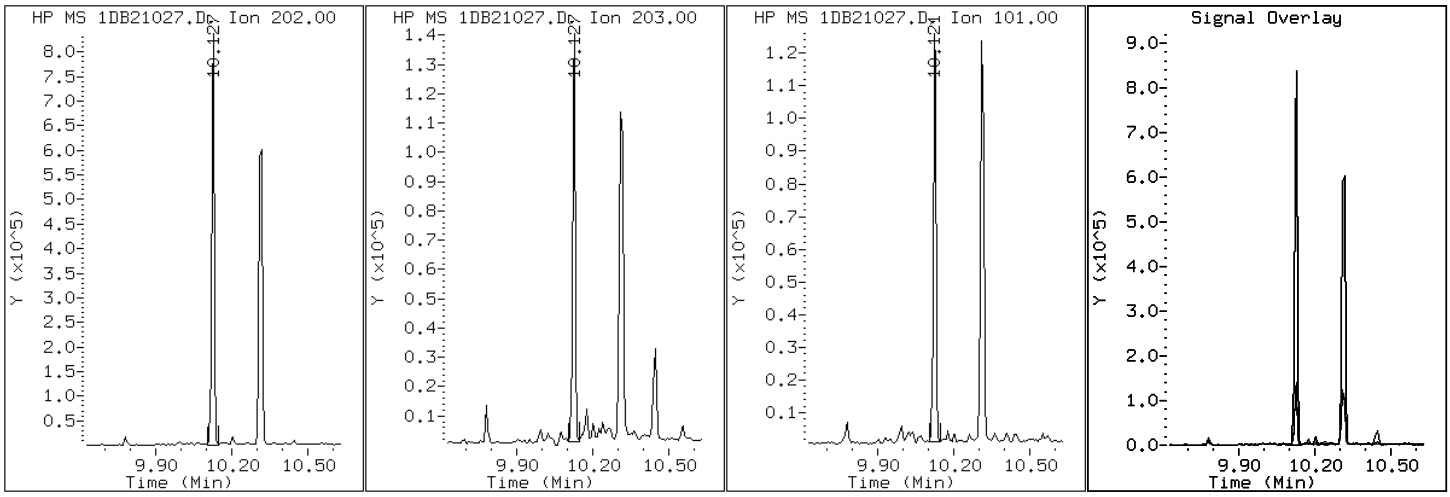
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

14 Fluoranthene



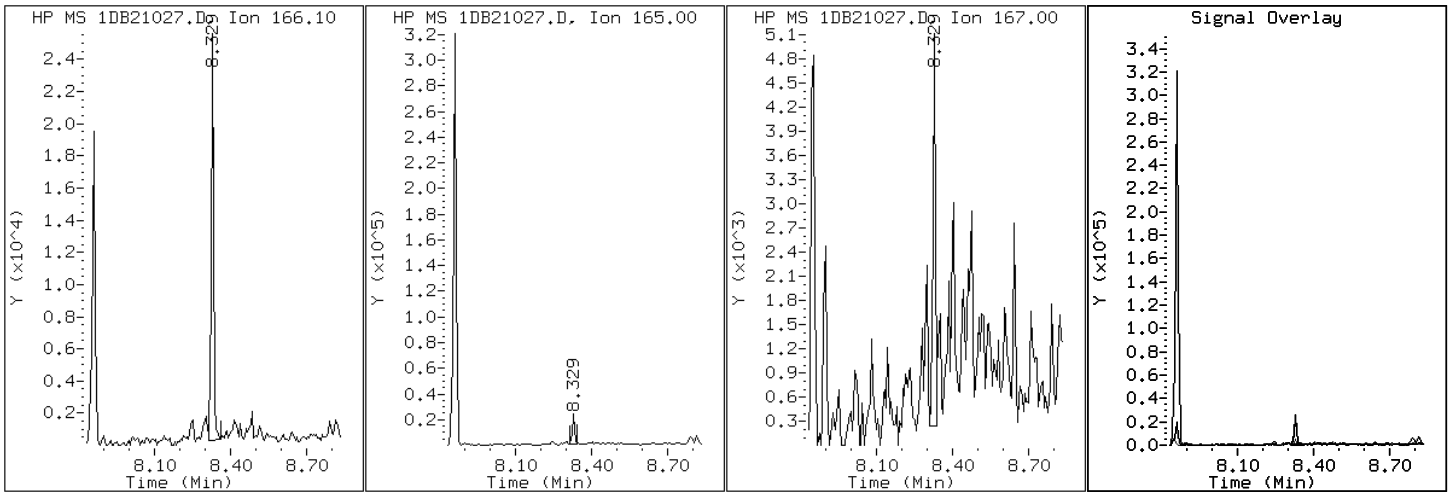
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

8 Fluorene



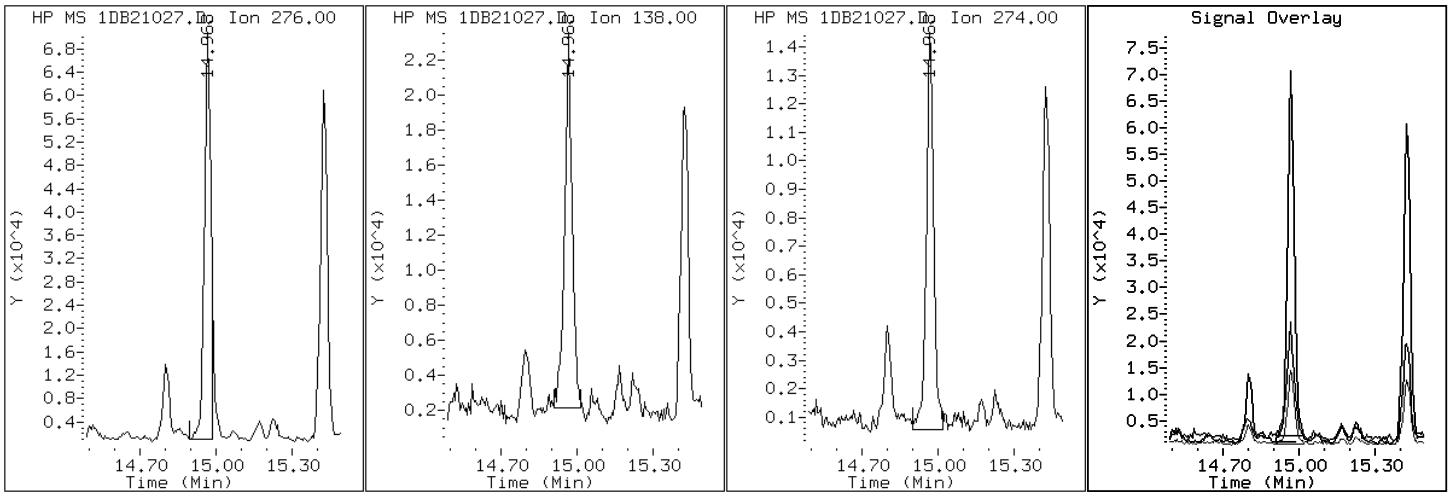
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

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



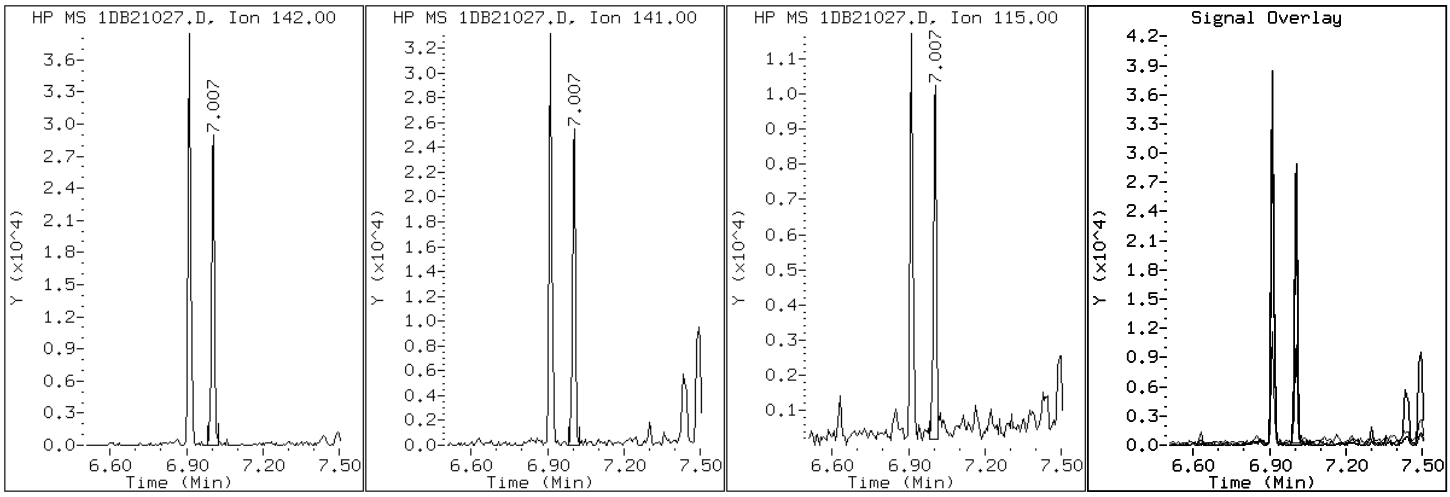
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

4 1-Methylnaphthalene



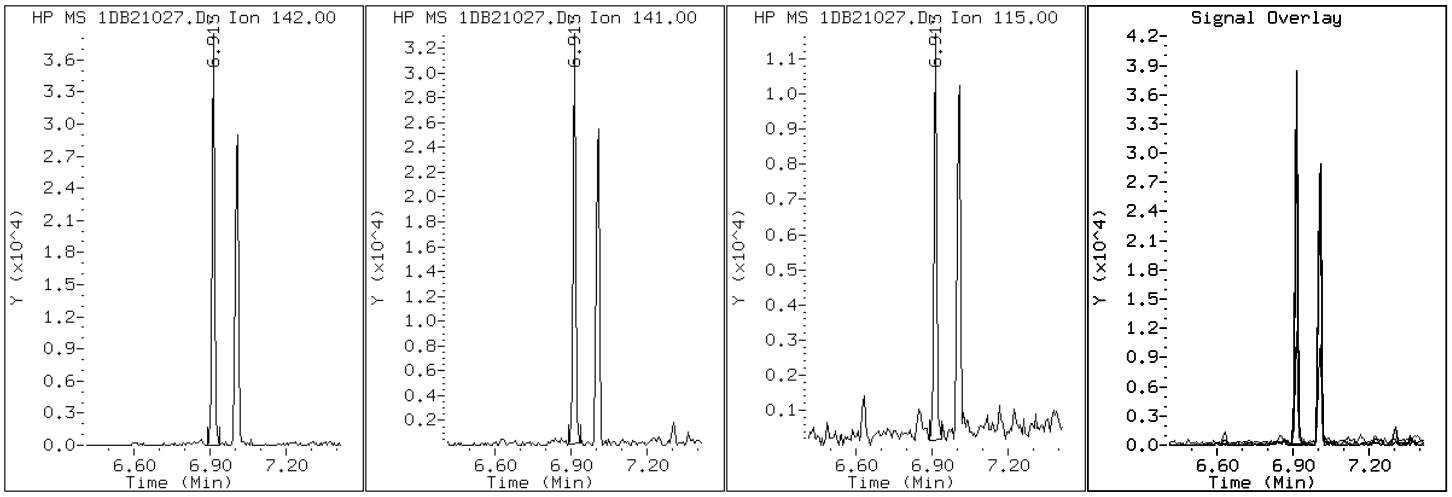
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

3 2-Methylnaphthalene



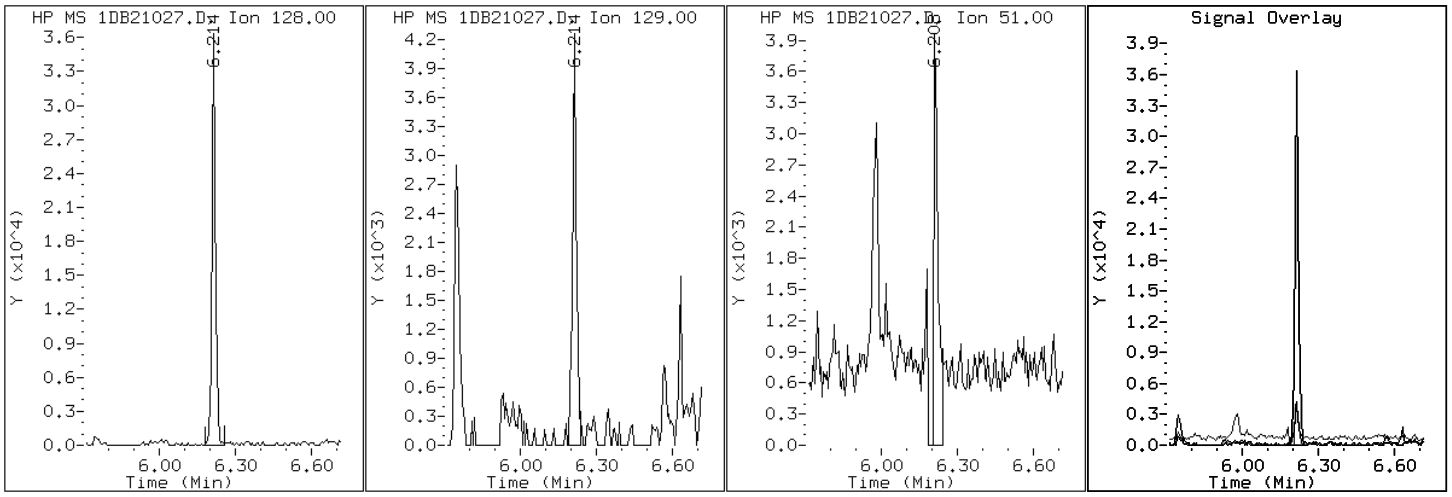
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

2 Naphthalene



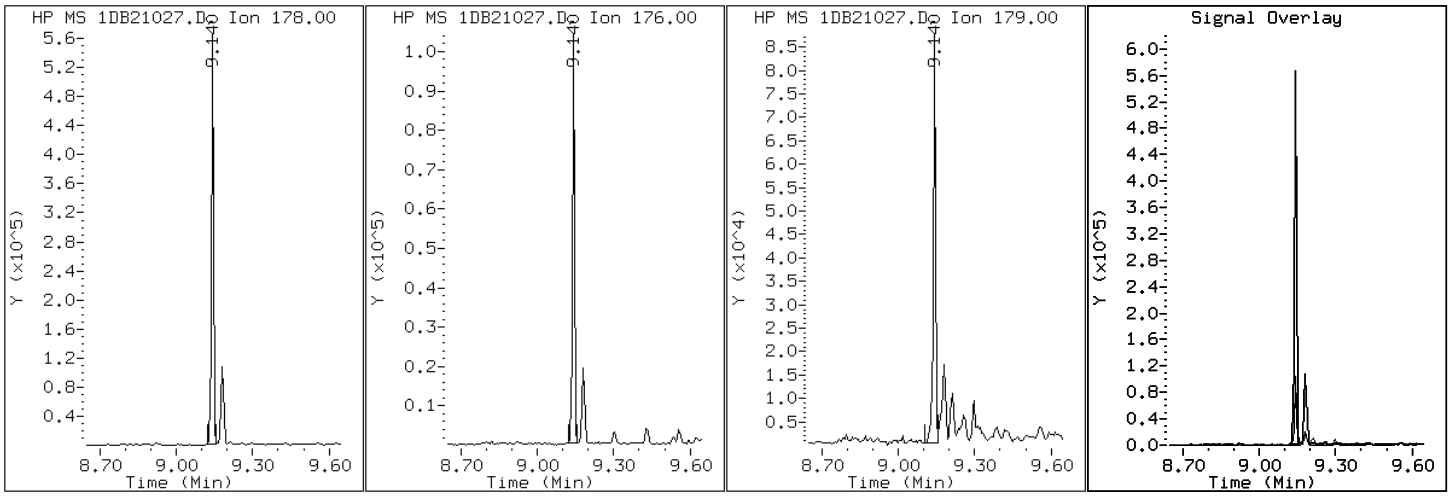
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

10 Phenanthrene



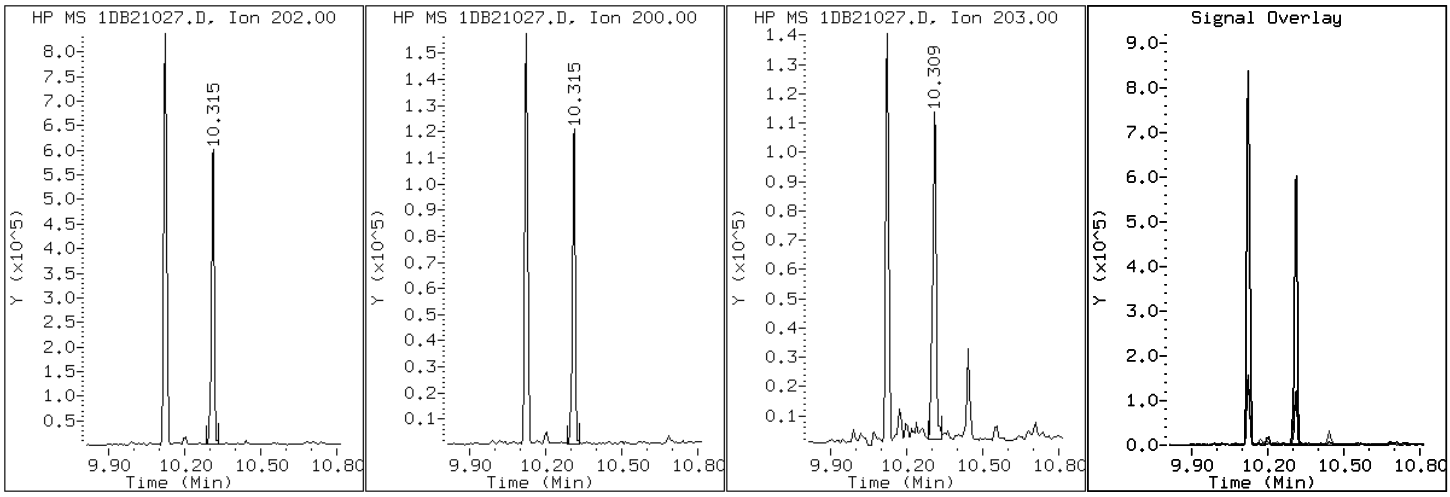
Data File: 1DB21027.D

Date: 21-FEB-2013 20:59

Client ID: CV0971AAA-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-47-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB21027.D
Inj. Date and Time: 21-FEB-2013 20:59
Instrument ID: BSMSD.i
Client ID: CV0971AAA-CS
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/25/2013

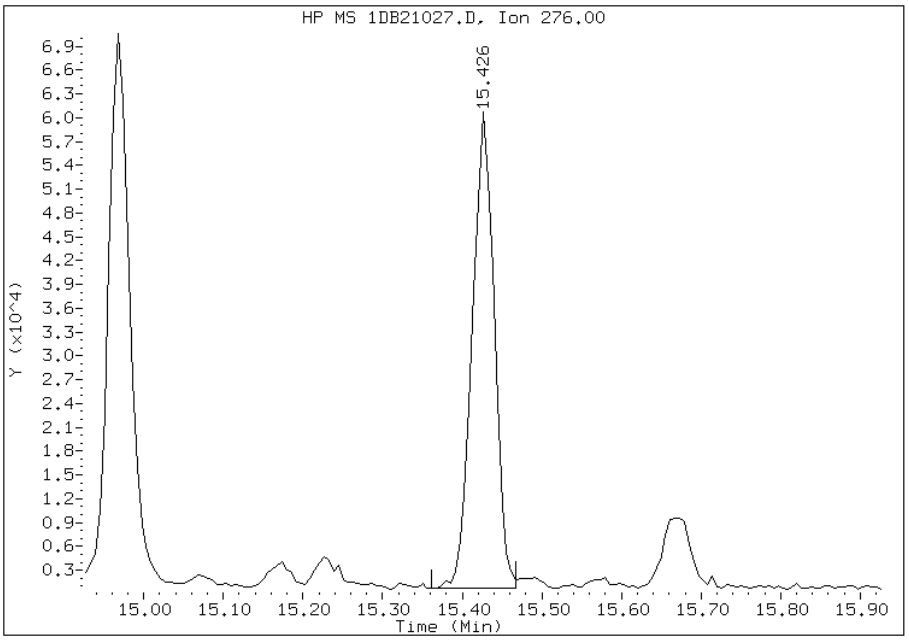
Processing Integration Results

RT: 15.43

Response: 114354

Amount: 2

Conc: 426



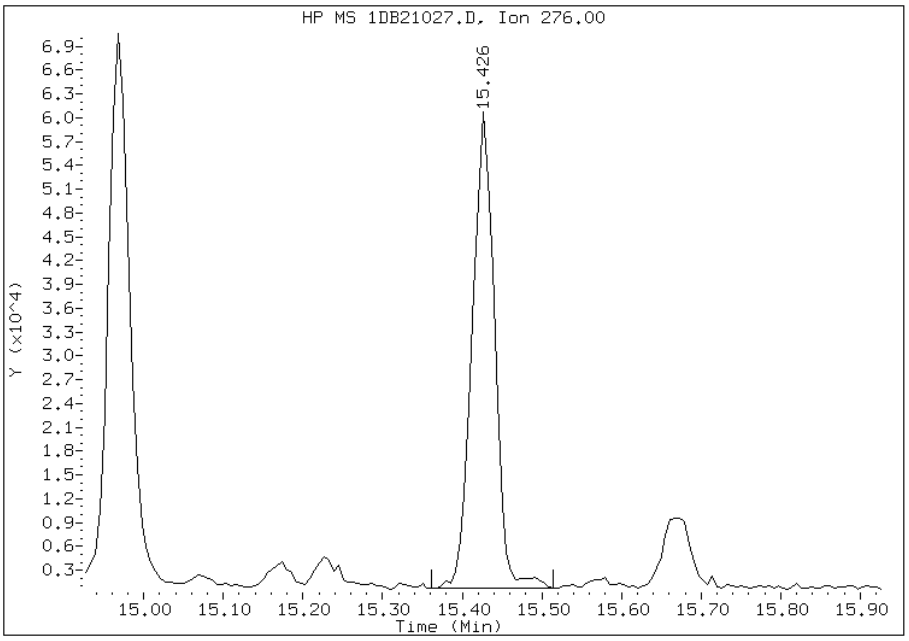
Manual Integration Results

RT: 15.43

Response: 116752

Amount: 2

Conc: 435



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 10:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DB21027.D
Inj. Date and Time: 21-FEB-2013 20:59
Instrument ID: BSMSD.i
Client ID: CV0971AAA-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

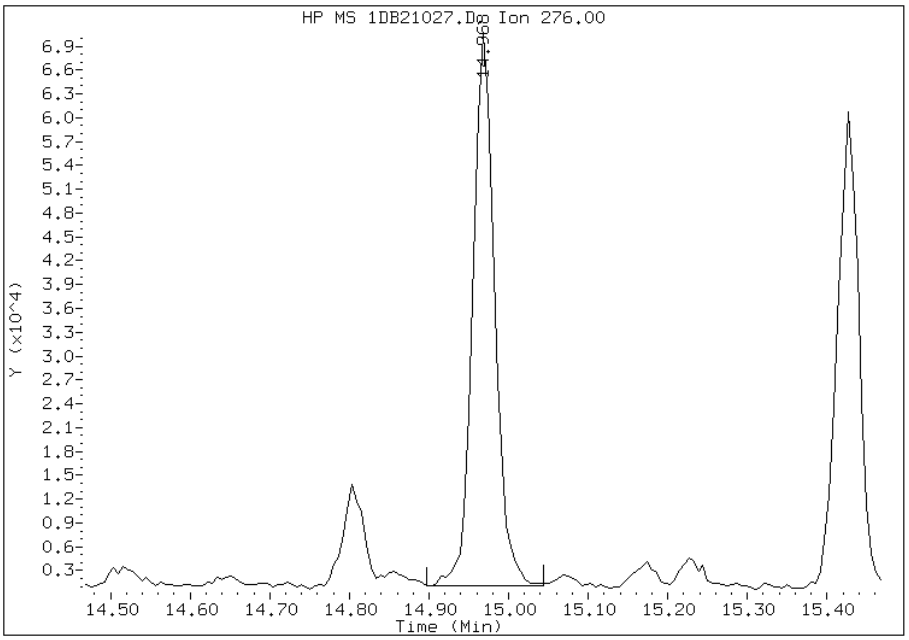
Processing Integration Results

RT: 14.97

Response: 133299

Amount: 2

Conc: 476



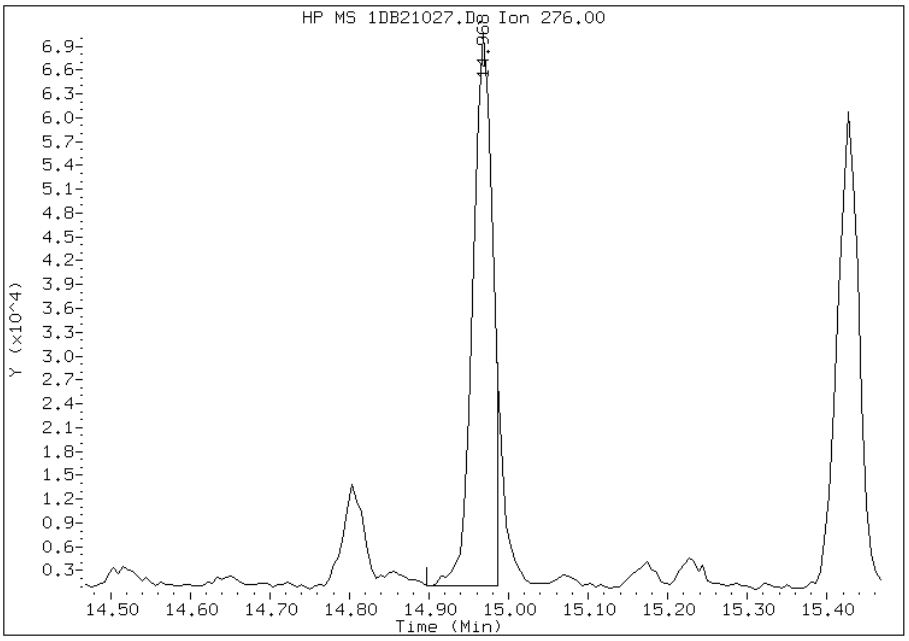
Manual Integration Results

RT: 14.97

Response: 120972

Amount: 2

Conc: 432



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 10:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: CV0971BBB-CS | Lab Sample ID: 680-87496-48

Matrix: Solid | Lab File ID: 1DB21028.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 14:40

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.05(g) | Date Analyzed: 02/21/2013 21:21

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

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

% Moisture: 6.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430	U	430	85
208-96-8	Acenaphthylene	42	J	170	21
120-12-7	Anthracene	57		36	18
56-55-3	Benzo[a]anthracene	200		34	17
50-32-8	Benzo[a]pyrene	210		44	22
205-99-2	Benzo[b]fluoranthene	400	F	52	26
191-24-2	Benzo[g,h,i]perylene	110		85	19
207-08-9	Benzo[k]fluoranthene	130	F	34	15
218-01-9	Chrysene	250		38	19
53-70-3	Dibenz(a,h)anthracene	39	J	85	17
206-44-0	Fluoranthene	350	F	85	17
86-73-7	Fluorene	85	U	85	17
193-39-5	Indeno[1,2,3-cd]pyrene	110		85	30
90-12-0	1-Methylnaphthalene	100	J	170	19
91-57-6	2-Methylnaphthalene	120	J	170	30
91-20-3	Naphthalene	100	J	170	19
85-01-8	Phenanthrene	210		34	17
129-00-0	Pyrene	290	F	85	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	97		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21028.D
Lab Smp Id: 680-87496-A-48-A Client Smp ID: CV0971BBB-CS
Inj Date : 21-FEB-2013 21:21
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-48-A
Misc Info : 680-87496-A-48-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 28
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	6.226	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.195	6.195	(1.000)	3339592	40.0000	
* 6 Acenaphthene-d10	164	7.864	7.863	(1.000)	2021133	40.0000	
* 9 Phenanthrene-d10	188	9.127	9.127	(1.000)	3342597	40.0000	
$ 13 o-Terphenyl	230	9.427	9.432	(1.033)	120193	2.42179	690
* 17 Chrysene-d12	240	11.471	11.477	(1.000)	3262092	40.0000	
* 22 Perylene-d12	264	13.357	13.363	(1.000)	2897932	40.0000	
2 Naphthalene	128	6.213	6.212	(1.003)	31364	0.35512	100
3 2-Methylnaphthalene	142	6.912	6.912	(1.116)	23756	0.42350	120
4 1-Methylnaphthalene	142	7.006	7.006	(1.131)	18696	0.35434	100
5 Acenaphthylene	152	7.735	7.734	(0.984)	13065	0.14972	42
8 Fluorene	166	8.328	8.333	(1.059)	3335	0.05274	15
10 Phenanthrene	178	9.139	9.144	(1.001)	70951	0.74298	210
11 Anthracene	178	9.180	9.185	(1.006)	18896	0.20196	57
12 Carbazole	167	9.315	9.320	(1.021)	9154	0.11046	31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.120	10.125	(1.109)	117385	1.22715	350
15 Pyrene	202	10.308	10.313	(0.899)	105914	1.03988	290
16 Benzo(a)anthracene	228	11.454	11.447	(0.998)	68244	0.71520	200
18 Chrysene	228	11.489	11.500	(1.002)	81917	0.89095	250
19 Benzo(b)fluoranthene	252	12.787	12.793	(0.957)	102837	1.39793	400
20 Benzo(k)fluoranthene	252	12.817	12.840	(0.960)	36088	0.46443	130(Q)
21 Benzo(a)pyrene	252	13.246	13.263	(0.992)	54227	0.74765	210
23 Indeno(1,2,3-cd)pyrene	276	14.961	14.990	(1.120)	30240	0.39061	110(M)
24 Dibenzo(a,h)anthracene	278	14.991	15.026	(1.122)	9769	0.13752	39
25 Benzo(g,h,i)perylene	276	15.420	15.460	(1.154)	29772	0.40194	110(H)

QC Flag Legend

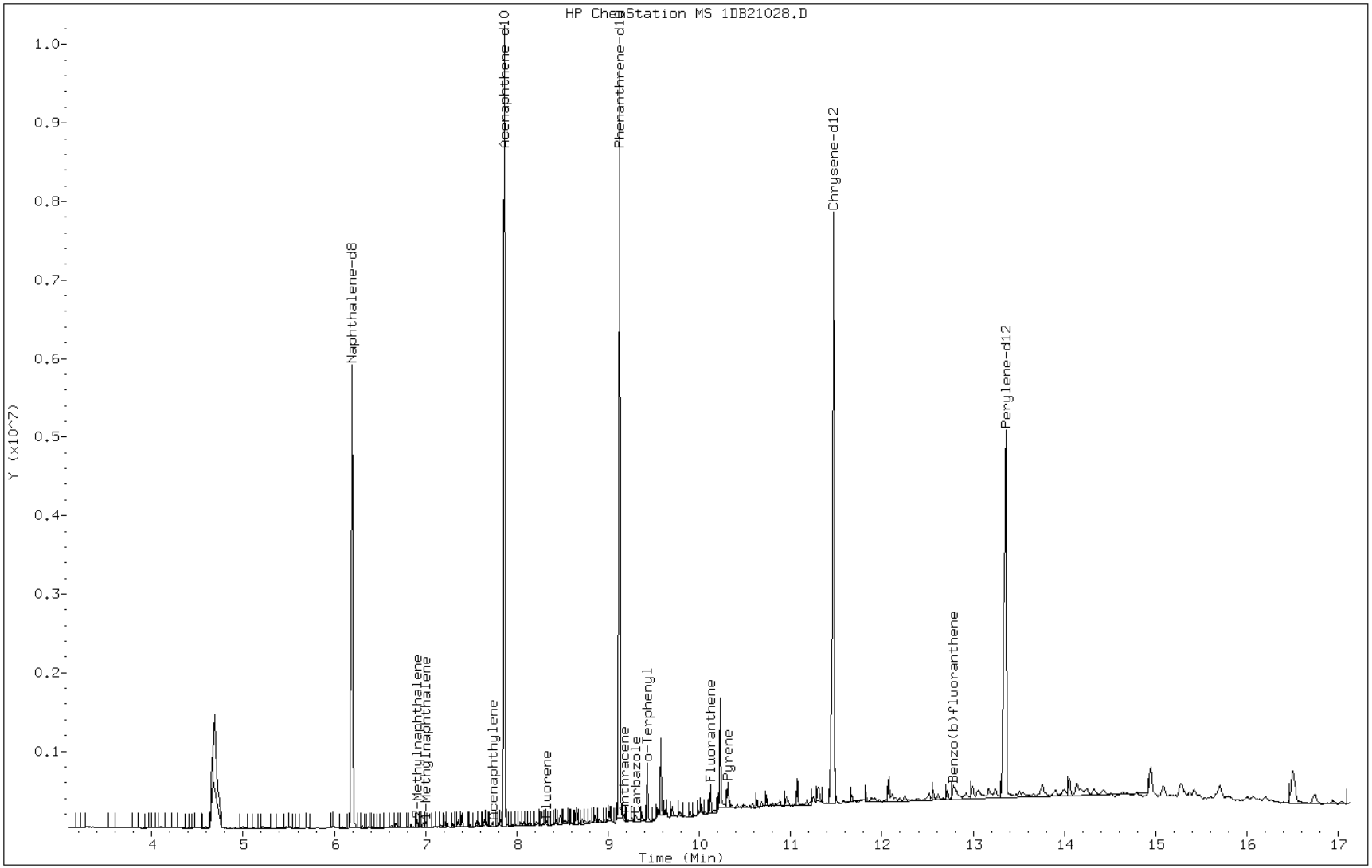
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC



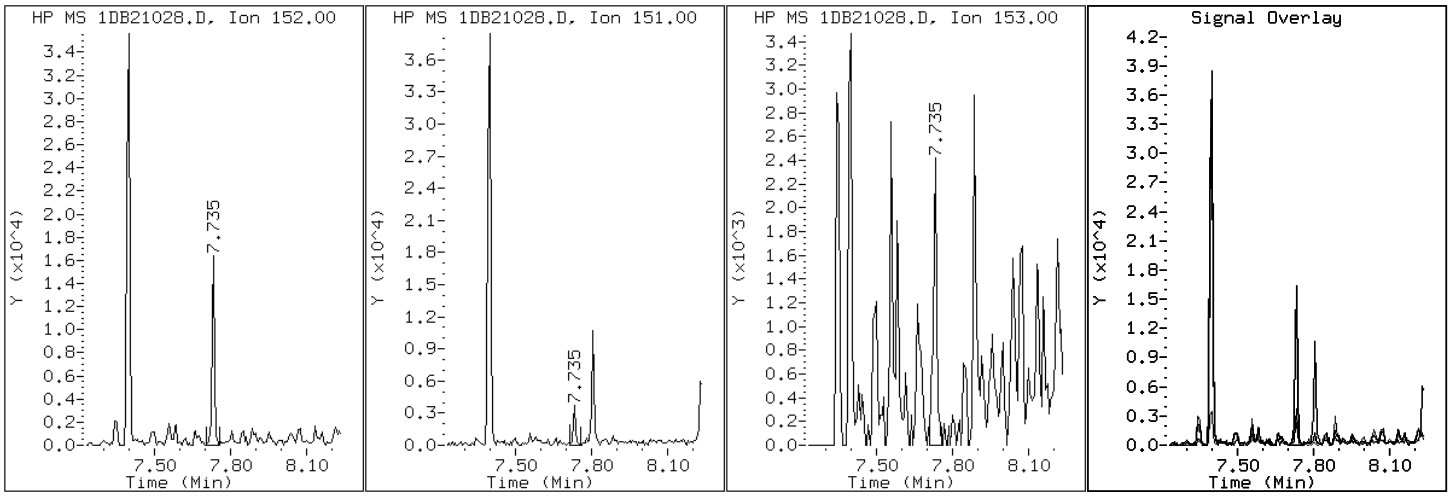
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

5 Acenaphthylene



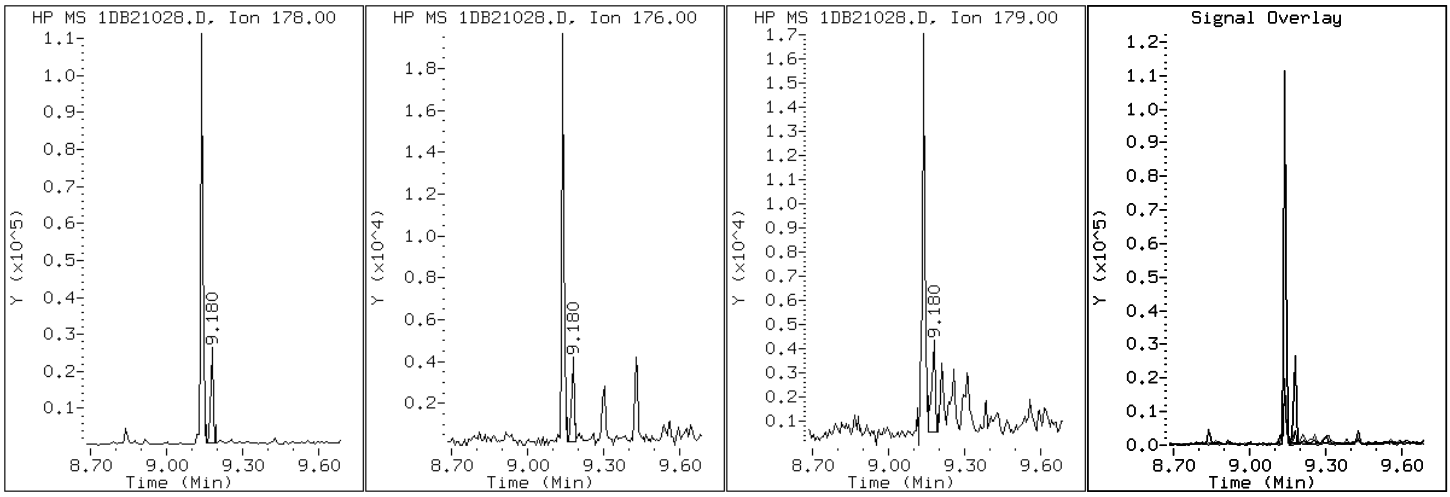
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

11 Anthracene



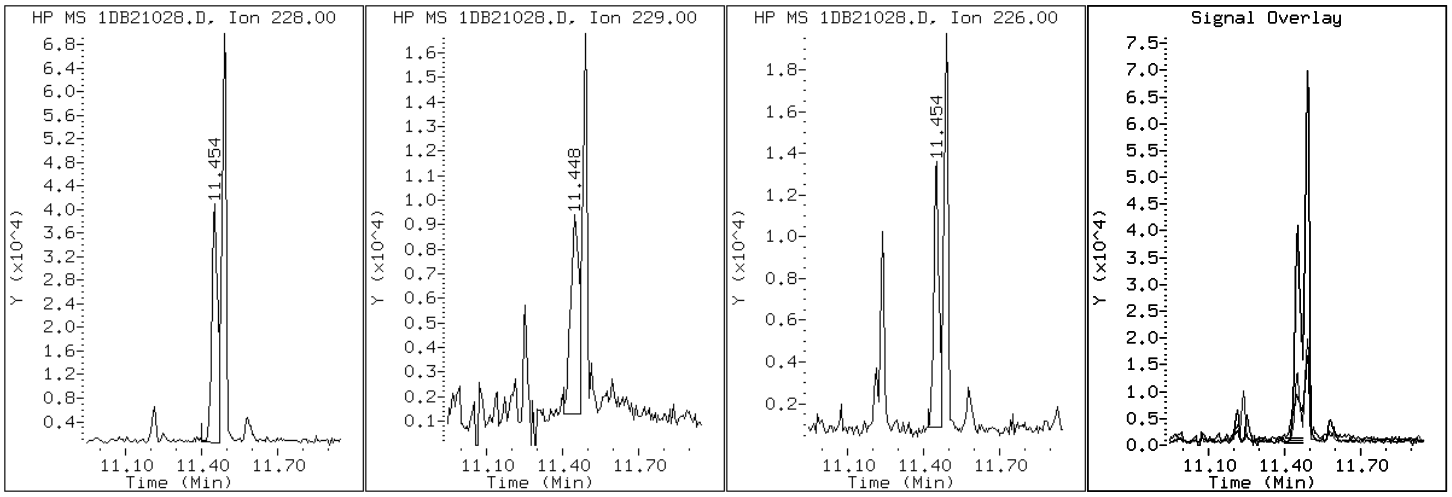
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

16 Benzo(a)anthracene



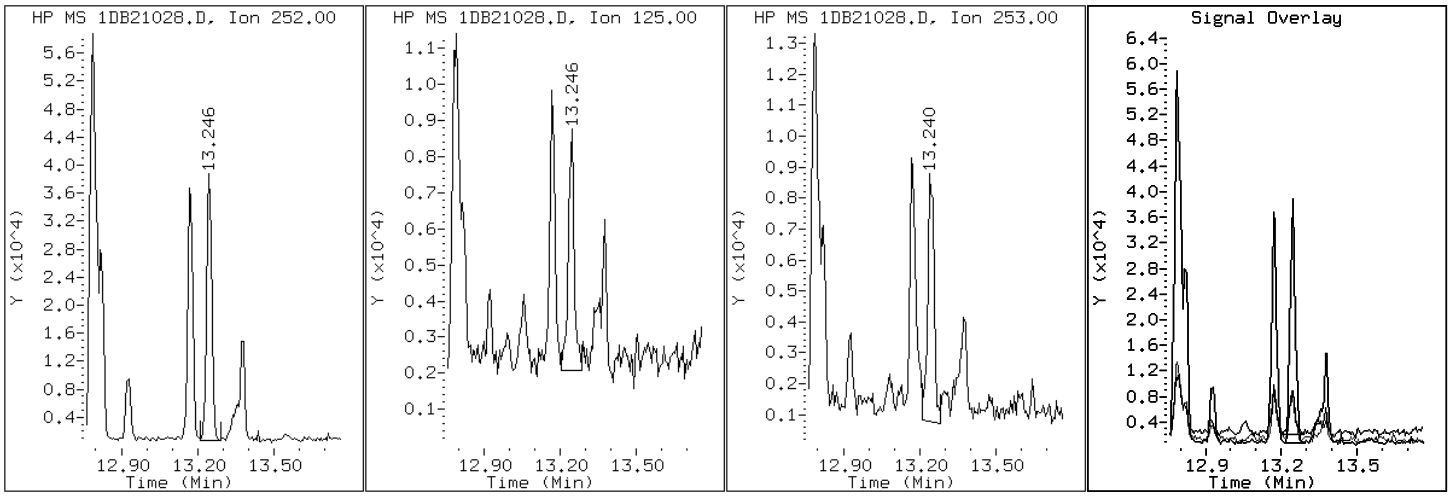
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

21 Benzo(a)pyrene



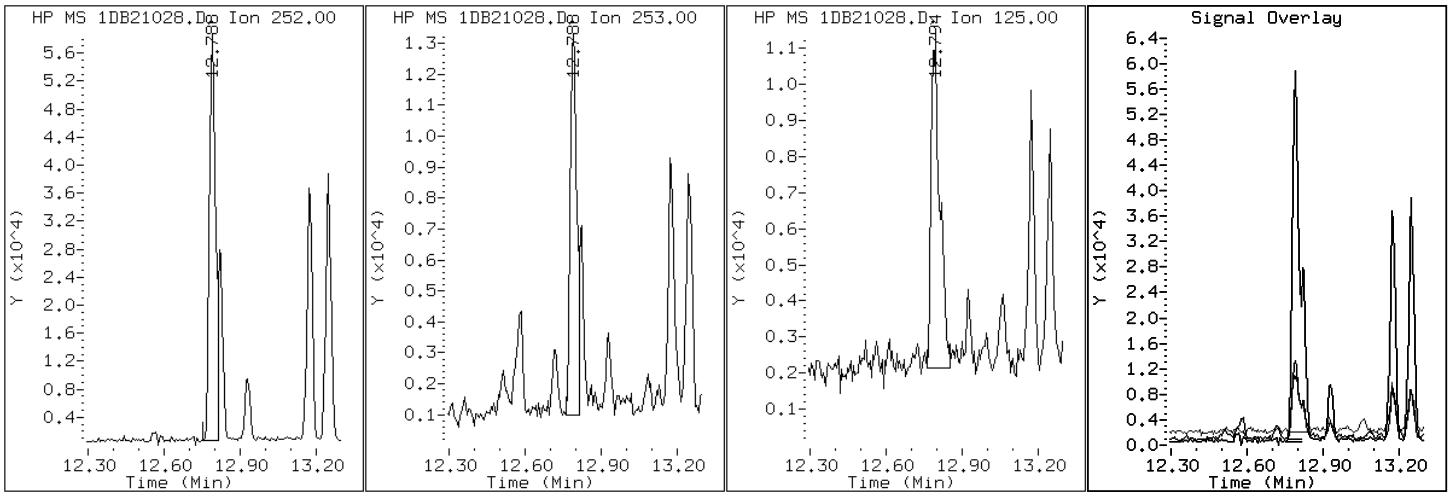
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

19 Benzo(b)fluoranthene



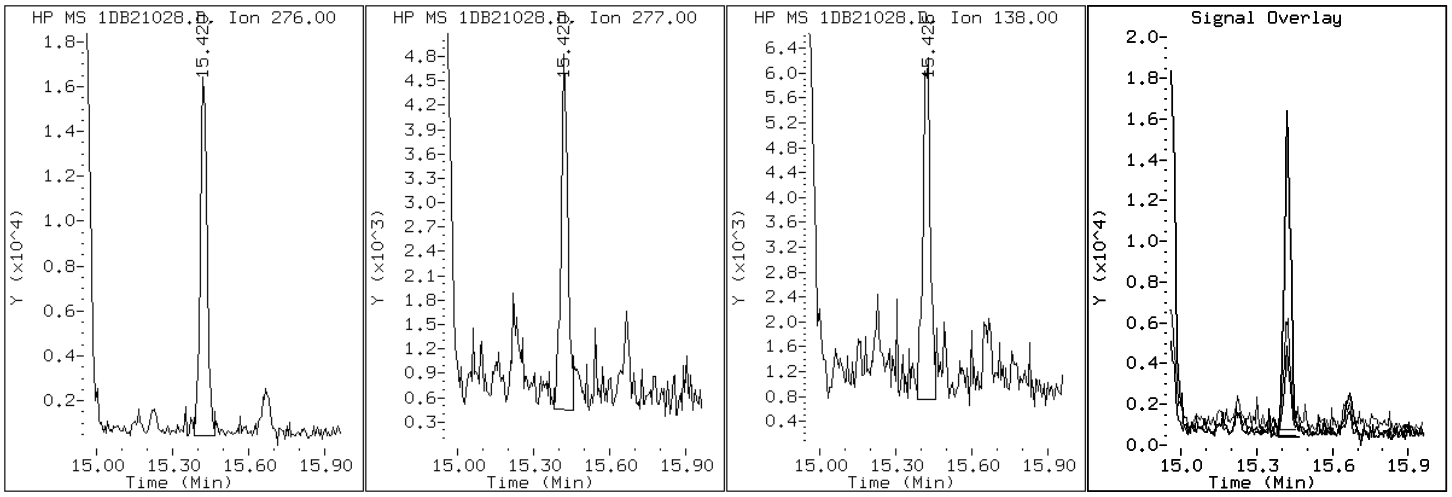
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

25 Benzo(g,h,i)perylene



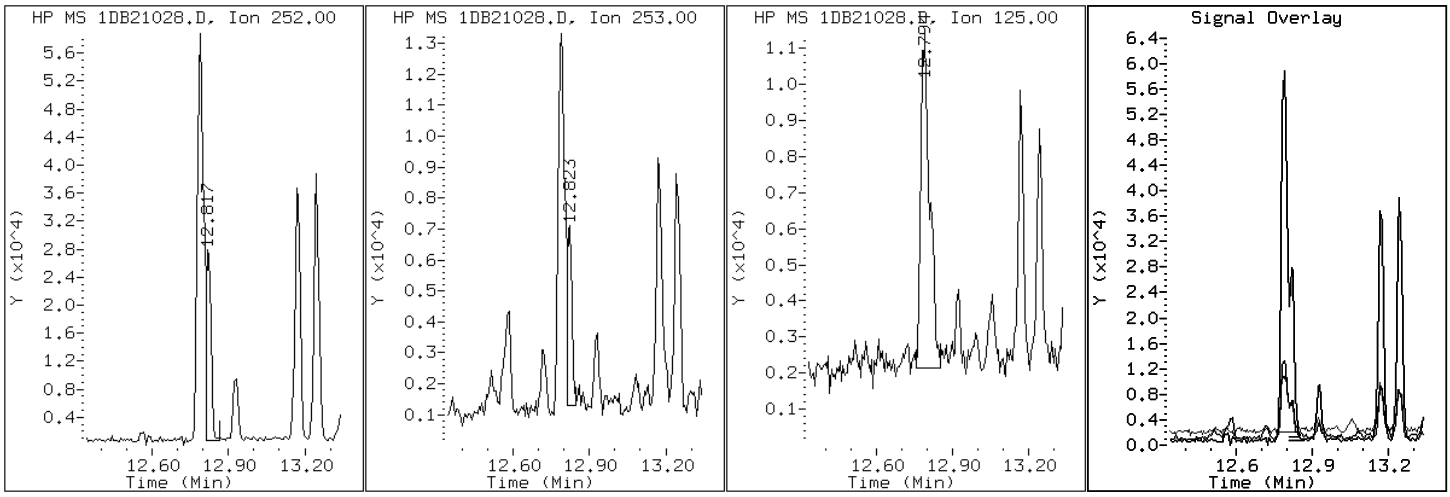
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

20 Benzo(k)fluoranthene



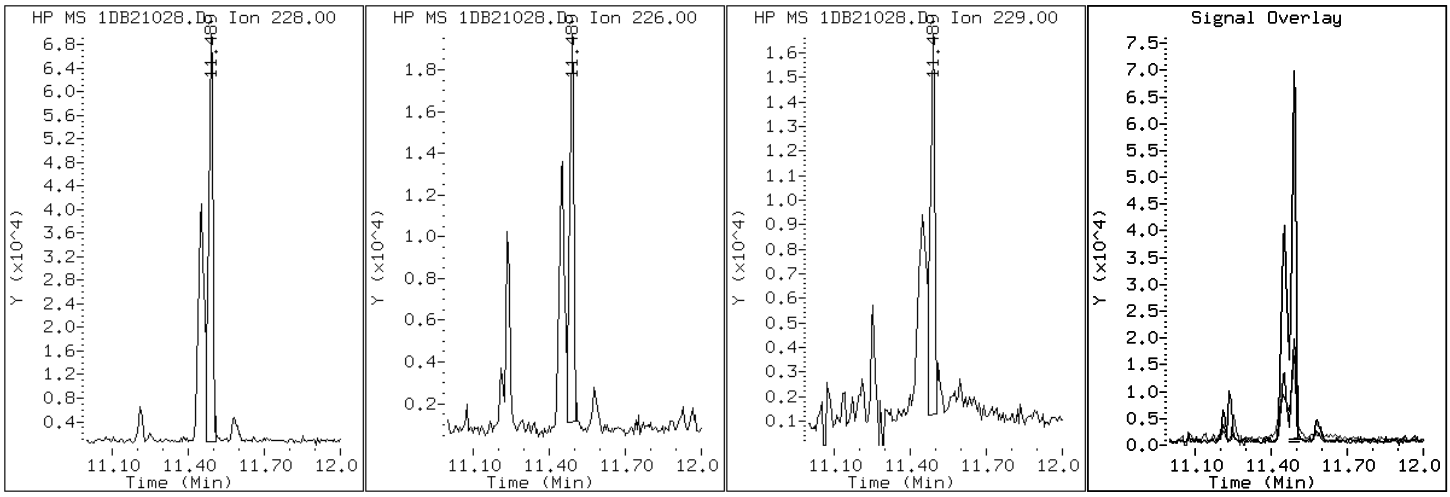
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

18 Chrysene



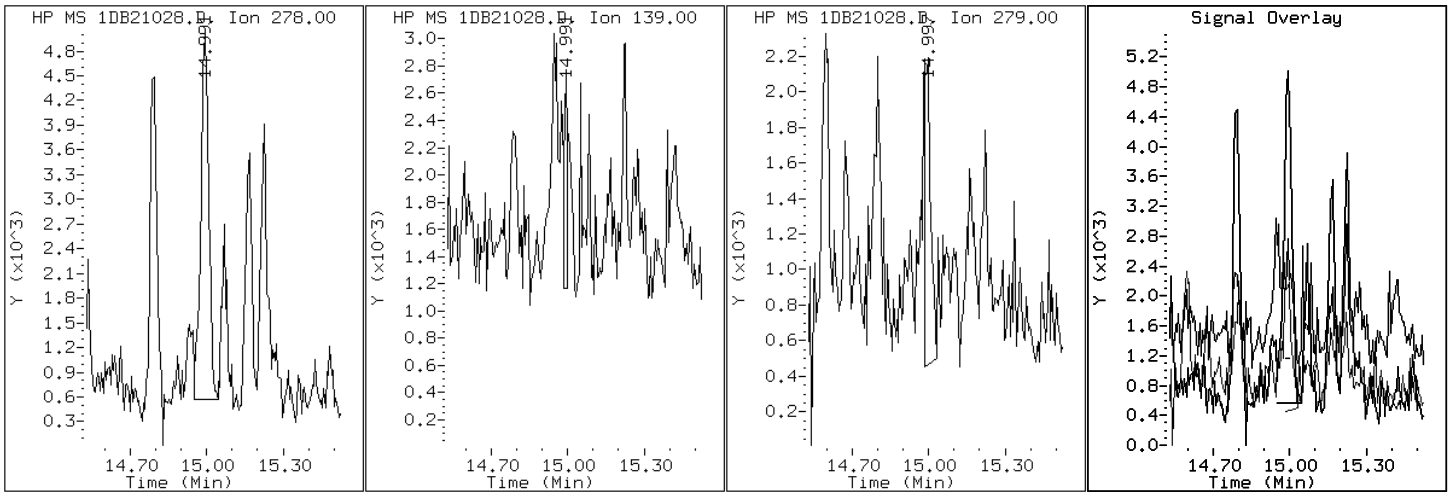
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

24 Dibenzo(a,h)anthracene



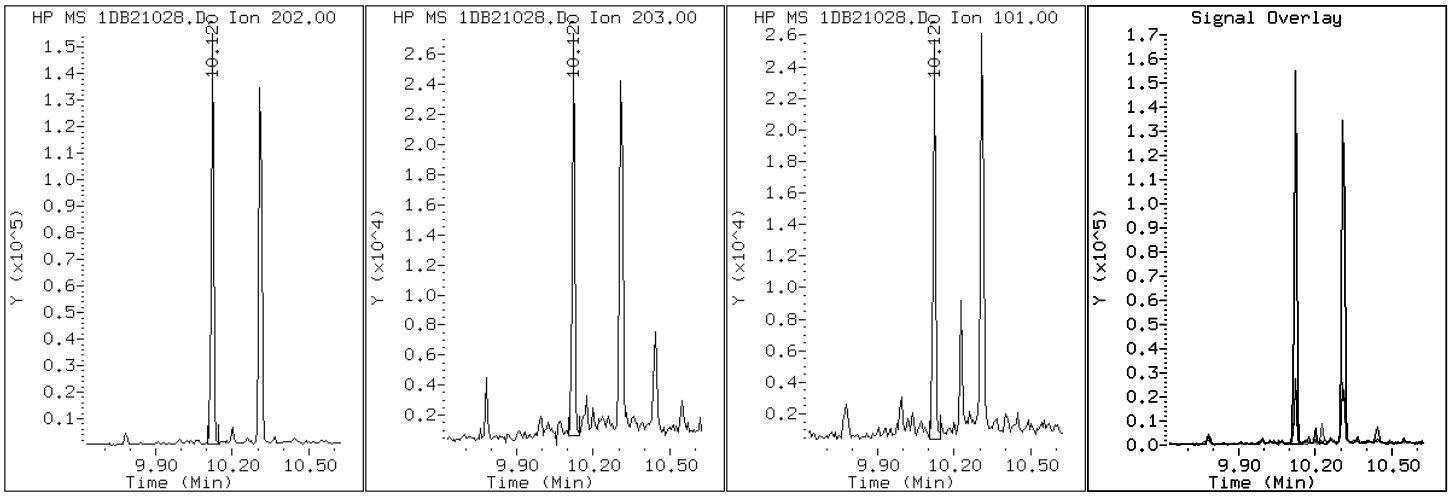
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

14 Fluoranthene



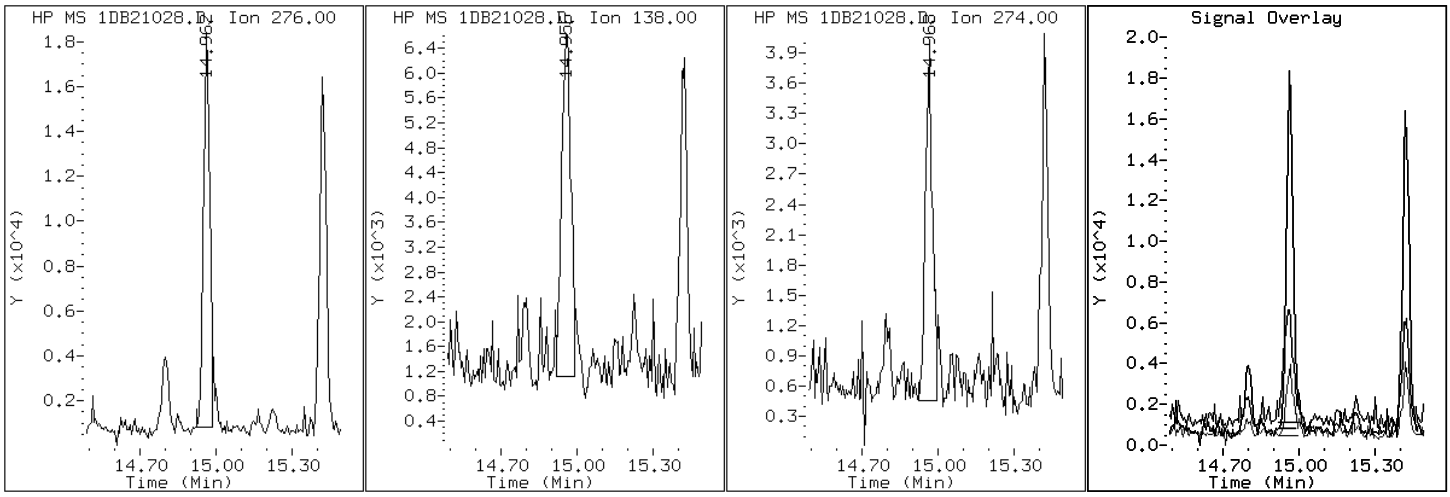
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

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



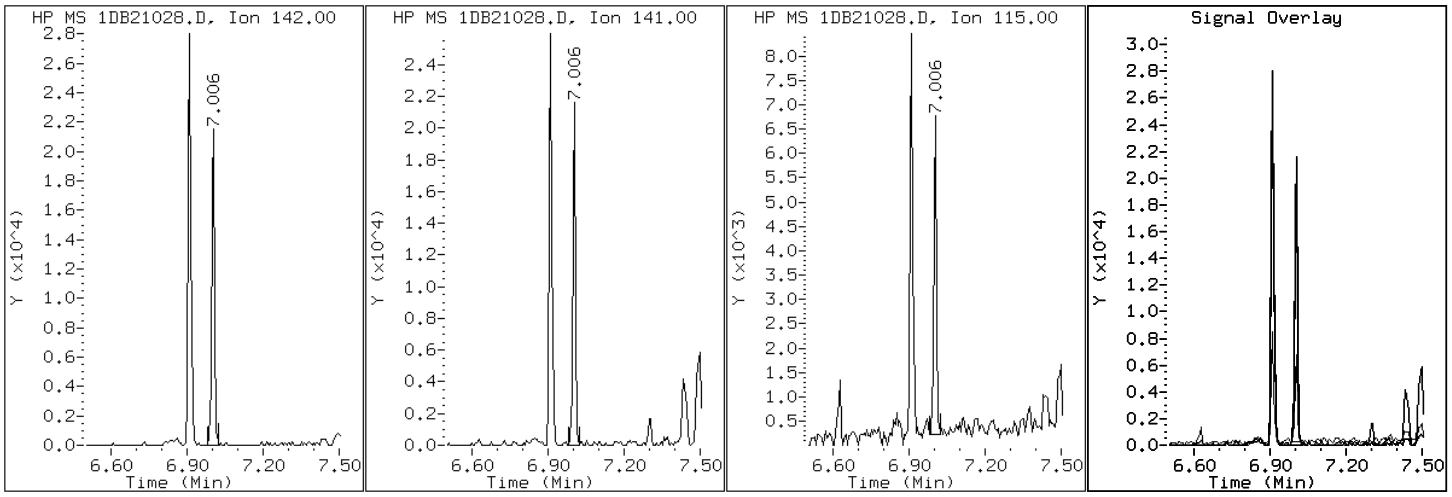
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

4 1-Methylnaphthalene



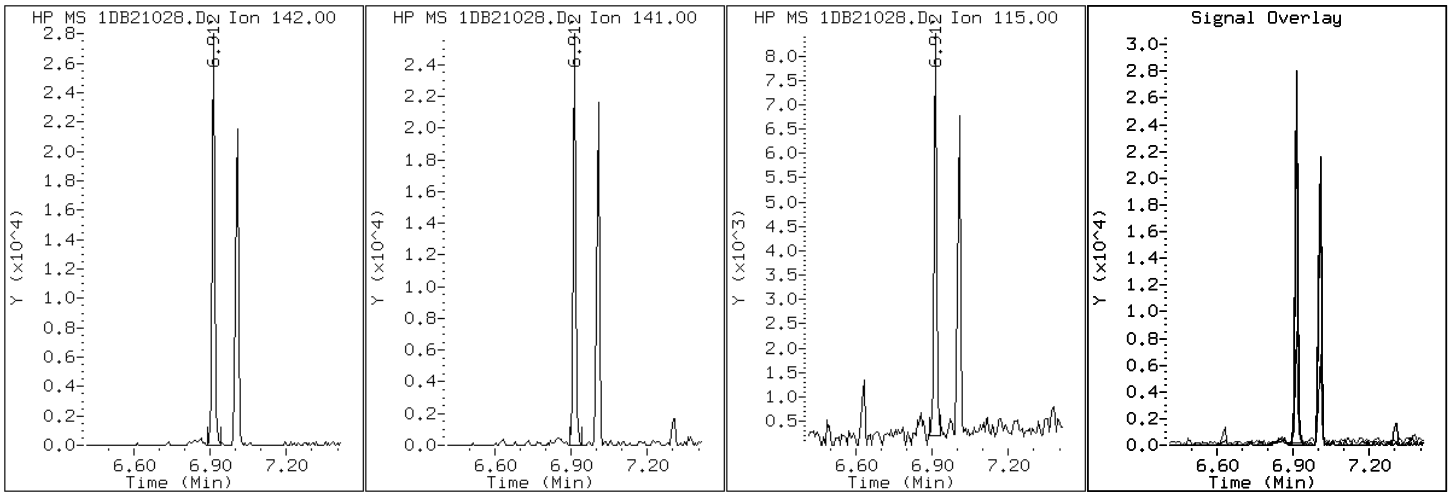
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

3 2-Methylnaphthalene



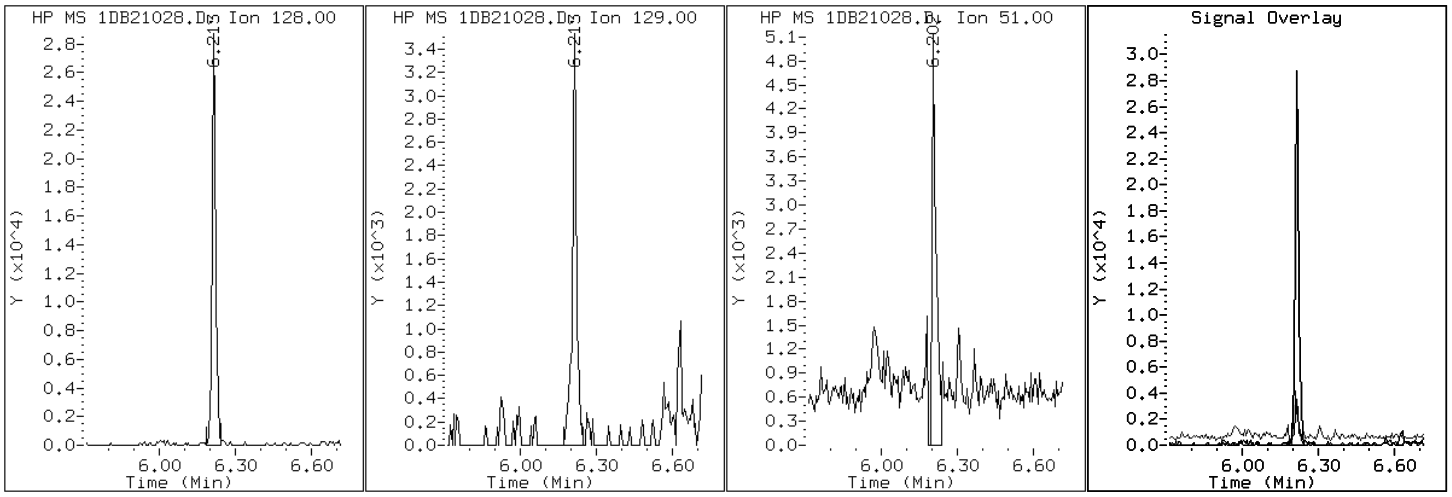
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

2 Naphthalene



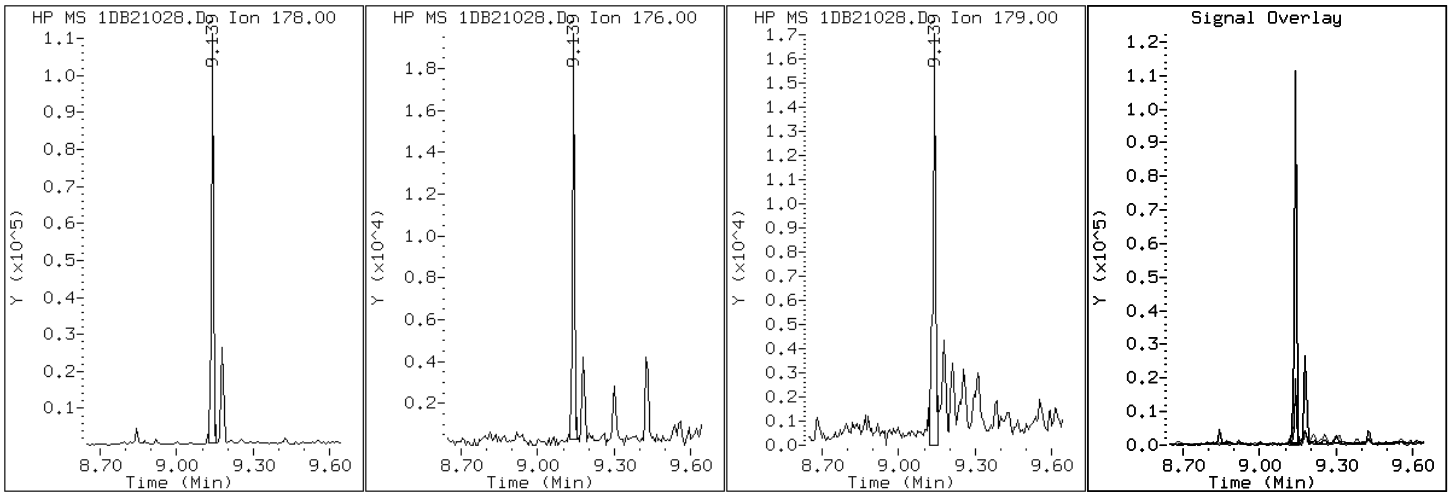
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

10 Phenanthrene



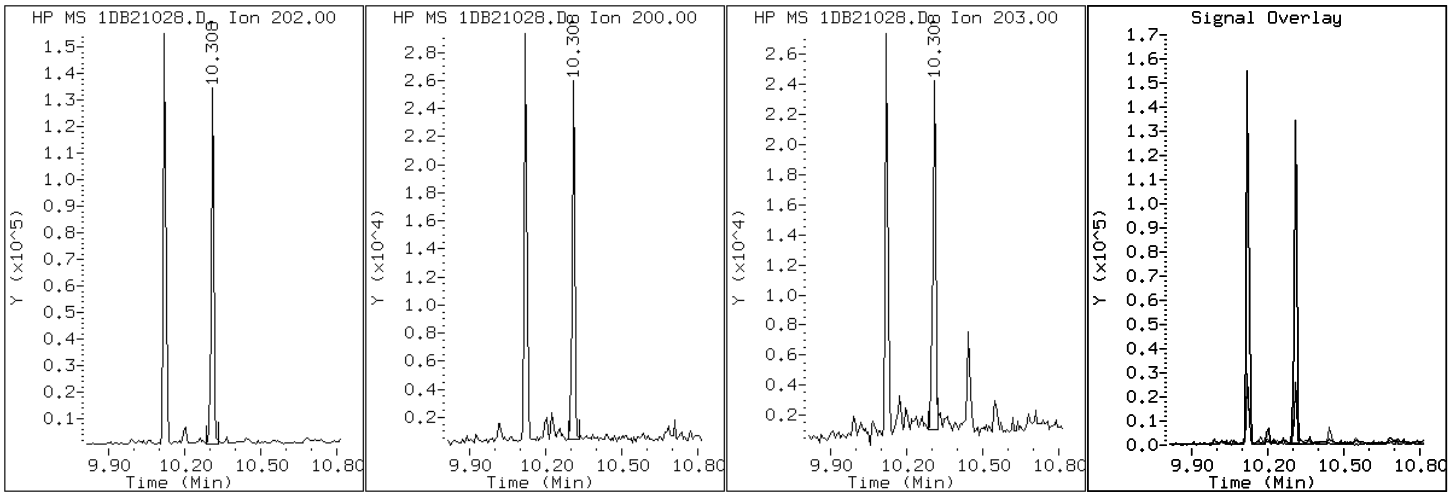
Data File: 1DB21028.D

Date: 21-FEB-2013 21:21

Client ID: CV0971BBB-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-48-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB21028.D
Inj. Date and Time: 21-FEB-2013 21:21
Instrument ID: BSMSD.i
Client ID: CV0971BBB-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

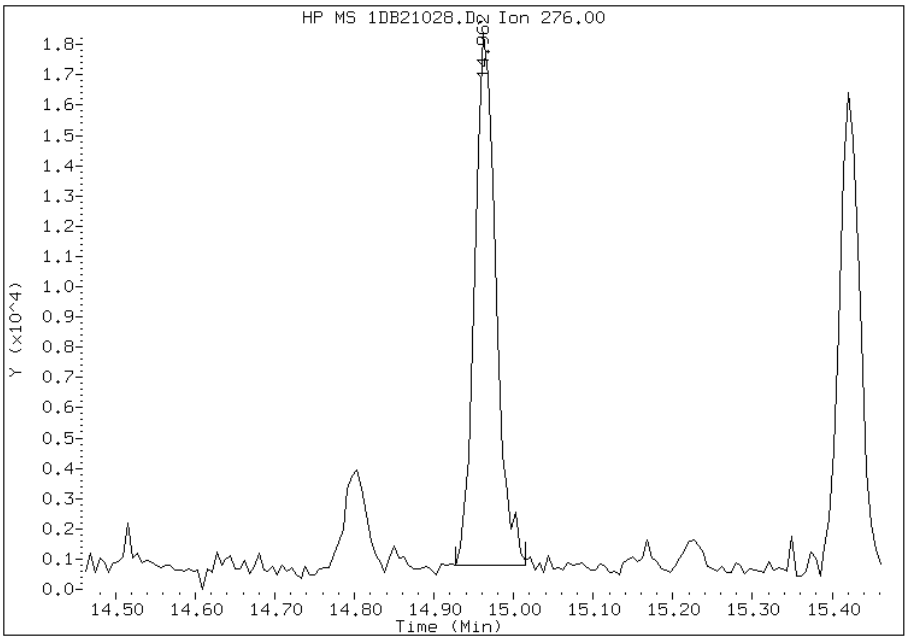
Processing Integration Results

RT: 14.96

Response: 32420

Amount: 0

Conc: 119



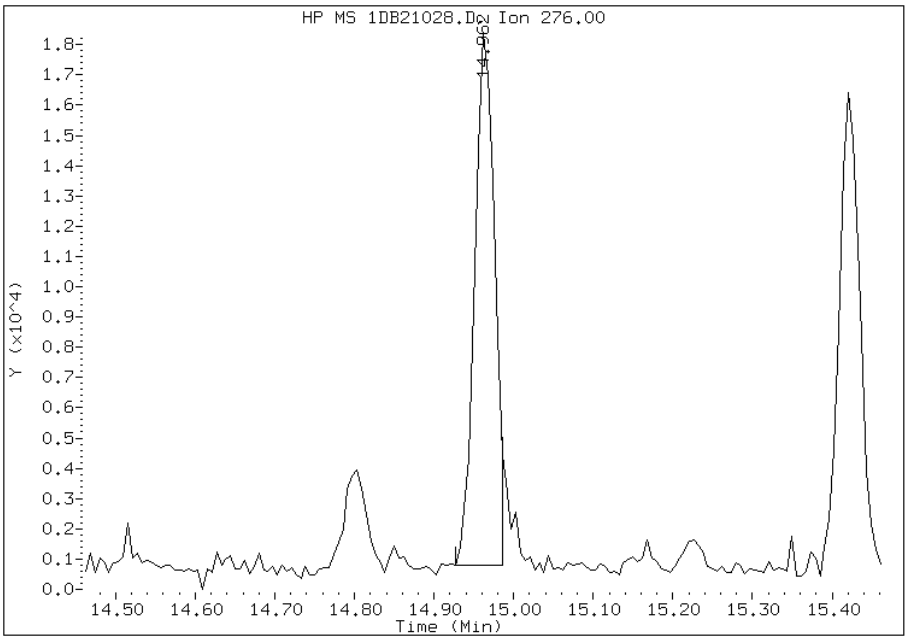
Manual Integration Results

RT: 14.96

Response: 30240

Amount: 0

Conc: 111



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 10:25
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: FM0160A-CS | Lab Sample ID: 680-87496-49

Matrix: Solid | Lab File ID: 1DB21031.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 15:17

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.10(g) | Date Analyzed: 02/21/2013 22:29

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

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

% Moisture: 12.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	45	U	45	5.7
120-12-7	Anthracene	8.4	J	9.5	4.8
56-55-3	Benzo[a]anthracene	23		9.1	4.4
50-32-8	Benzo[a]pyrene	19		12	5.9
205-99-2	Benzo[b]fluoranthene	41		14	6.9
191-24-2	Benzo[g,h,i]perylene	8.9	J	23	5.0
207-08-9	Benzo[k]fluoranthene	15		9.1	4.1
218-01-9	Chrysene	37		10	5.1
53-70-3	Dibenz(a,h)anthracene	23	U	23	4.6
206-44-0	Fluoranthene	53		23	4.5
86-73-7	Fluorene	23	U	23	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	9.6	J	23	8.0
90-12-0	1-Methylnaphthalene	16	J	45	5.0
91-57-6	2-Methylnaphthalene	21	J	45	8.0
91-20-3	Naphthalene	32	J	45	5.0
85-01-8	Phenanthrene	35		9.1	4.4
129-00-0	Pyrene	37		23	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	95		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21031.D
Lab Smp Id: 680-87496-A-49-A Client Smp ID: FM0160A-CS
Inj Date : 21-FEB-2013 22:29
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-49-A
Misc Info : 680-87496-A-49-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 31
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	12.271	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.195	6.195	(1.000)	3405973	40.0000	
* 6 Acenaphthene-d10	164	7.863	7.863	(1.000)	2057771	40.0000	
* 9 Phenanthrene-d10	188	9.127	9.127	(1.000)	3329813	40.0000	
$ 13 o-Terphenyl	230	9.432	9.432	(1.033)	467243	9.45070	710
* 17 Chrysene-d12	240	11.471	11.477	(1.000)	3279366	40.0000	
* 22 Perylene-d12	264	13.357	13.363	(1.000)	2839718	40.0000	
2 Naphthalene	128	6.212	6.212	(1.003)	37908	0.42085	32
3 2-Methylnaphthalene	142	6.911	6.912	(1.116)	15704	0.27450	21
4 1-Methylnaphthalene	142	7.005	7.006	(1.131)	11681	0.21707	16
5 Acenaphthylene	152	7.734	7.734	(0.984)	4491	0.05055	3.8
8 Fluorene	166	8.327	8.333	(1.059)	3356	0.05213	3.9
10 Phenanthrene	178	9.138	9.144	(1.001)	44672	0.46959	35
11 Anthracene	178	9.179	9.185	(1.006)	10374	0.11130	8.4
12 Carbazole	167	9.315	9.320	(1.021)	7936	0.09613	7.2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.119	10.125	(1.109)	66577	0.69867	53
15 Pyrene	202	10.307	10.313	(0.899)	49826	0.48662	37
16 Benzo(a)anthracene	228	11.453	11.447	(0.998)	29726	0.30989	23
18 Chrysene	228	11.494	11.500	(1.002)	45500	0.49226	37
19 Benzo(b)fluoranthene	252	12.781	12.793	(0.957)	38747	0.53751	40
20 Benzo(k)fluoranthene	252	12.822	12.840	(0.960)	15422	0.20254	15(Q)
21 Benzo(a)pyrene	252	13.245	13.263	(0.992)	17777	0.25012	19
23 Indeno(1,2,3-cd)pyrene	276	14.961	14.990	(1.120)	9696	0.12781	9.6(M)
24 Dibenzo(a,h)anthracene	278	14.996	15.026	(1.123)	3807	0.05469	4.1
25 Benzo(g,h,i)perylene	276	15.419	15.460	(1.154)	8548	0.11777	8.9

QC Flag Legend

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

Data File: 1DB21031.D

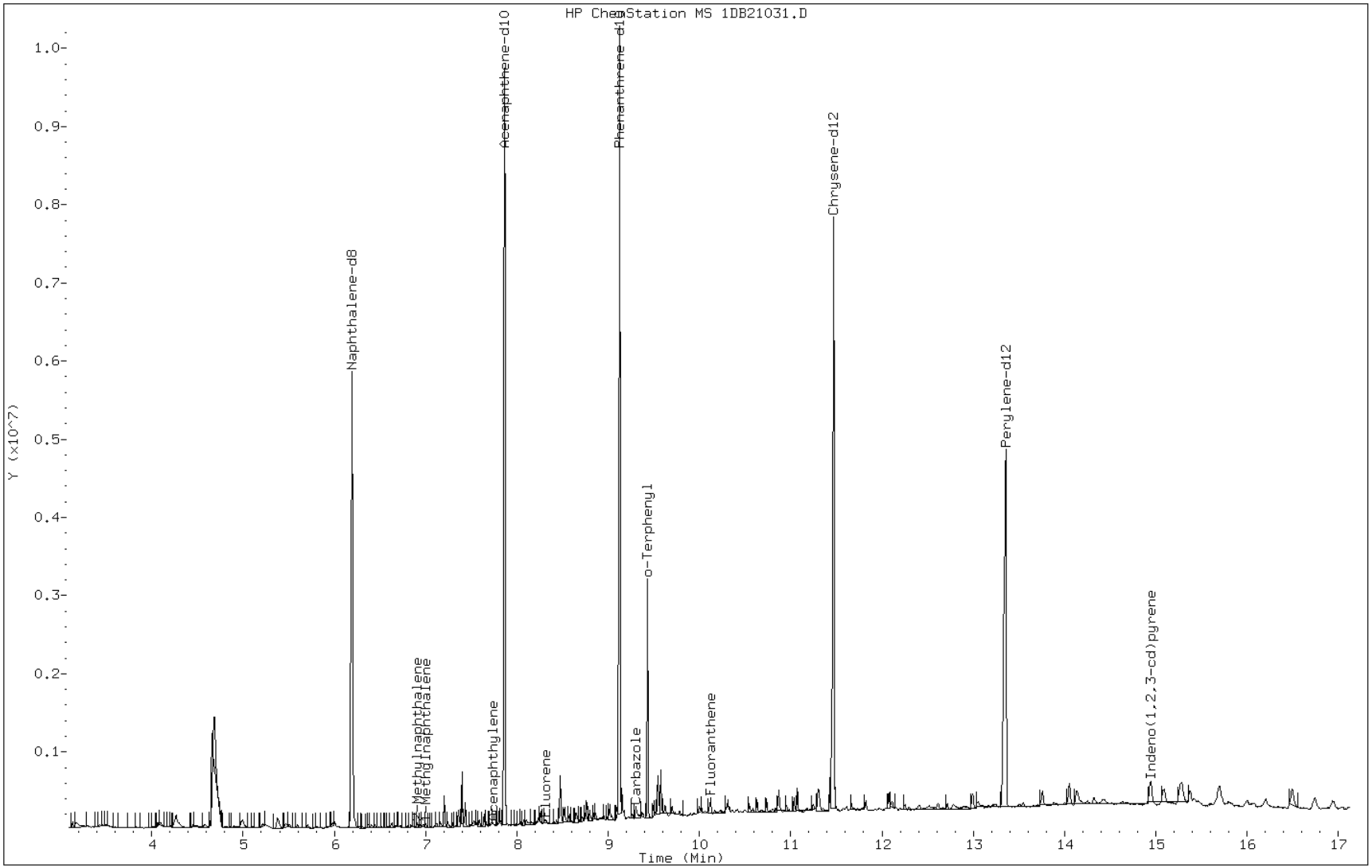
Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS

Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A

Operator: SCC



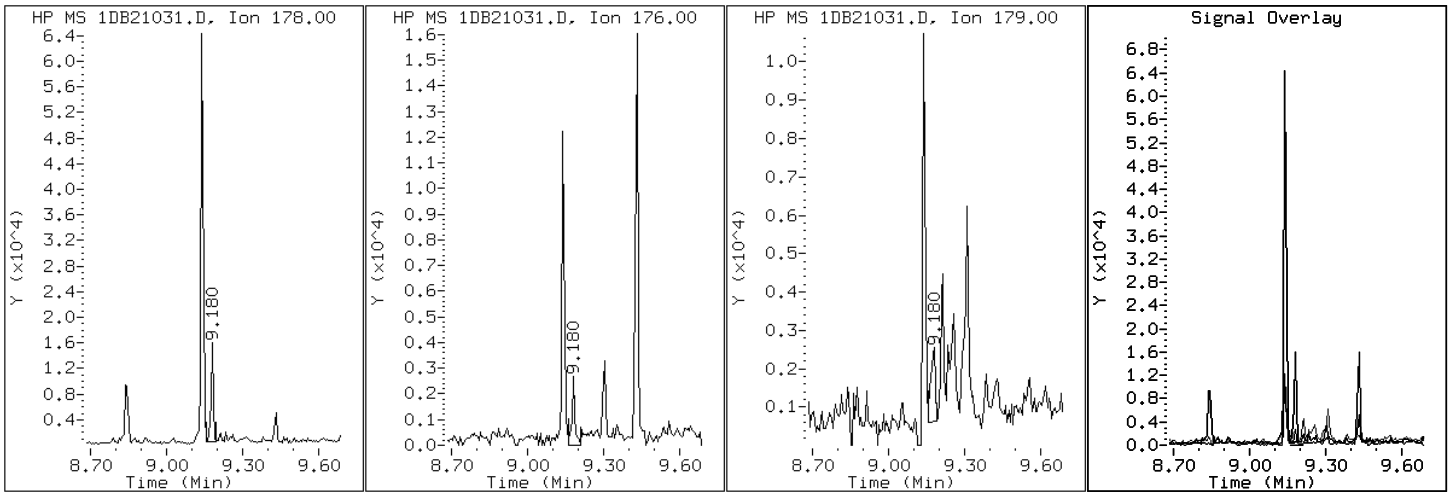
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

11 Anthracene



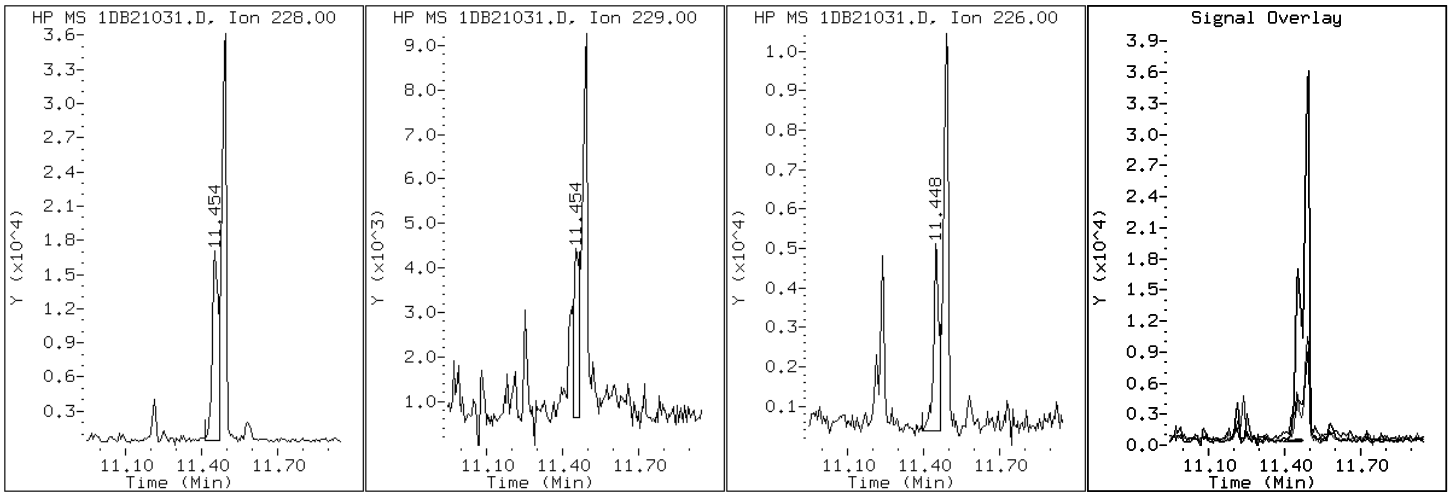
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

16 Benzo(a)anthracene



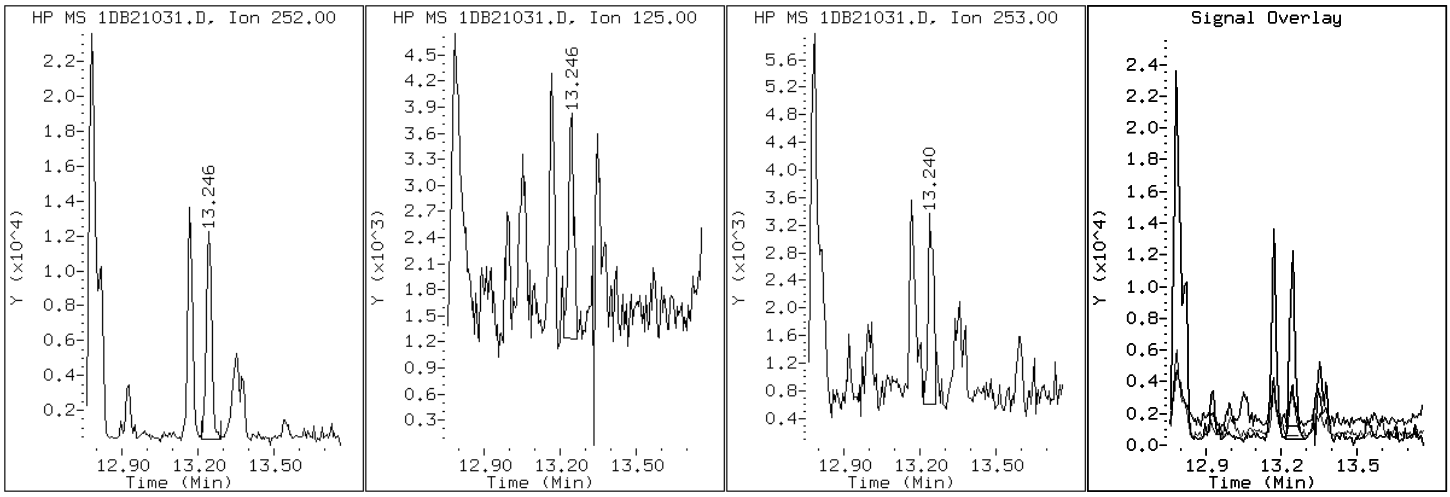
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

21 Benzo(a)pyrene



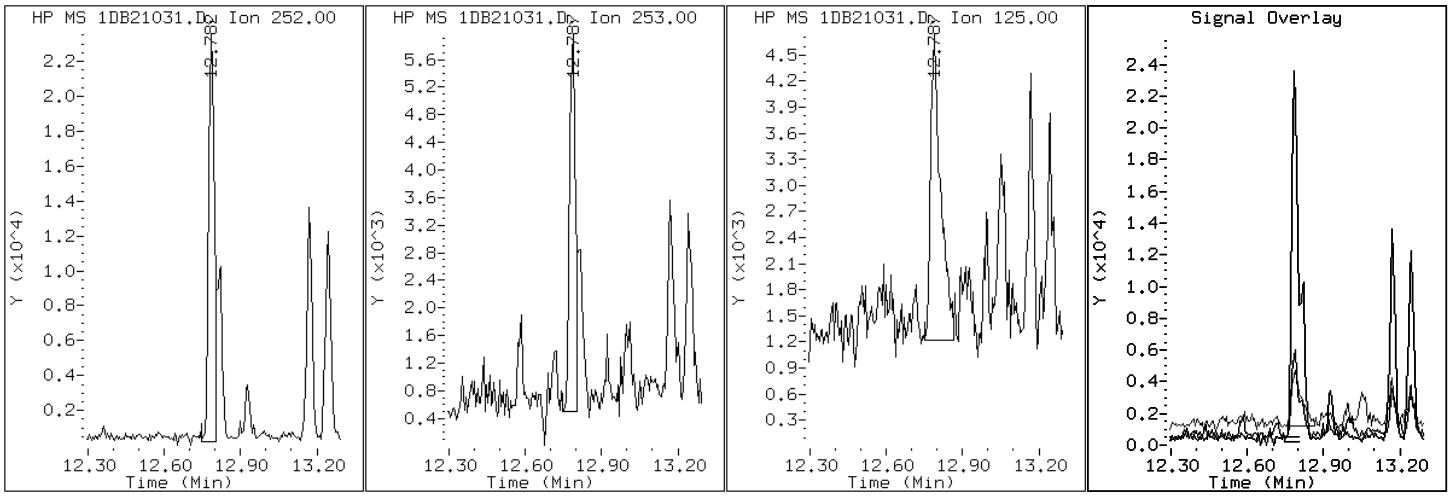
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

19 Benzo(b)fluoranthene



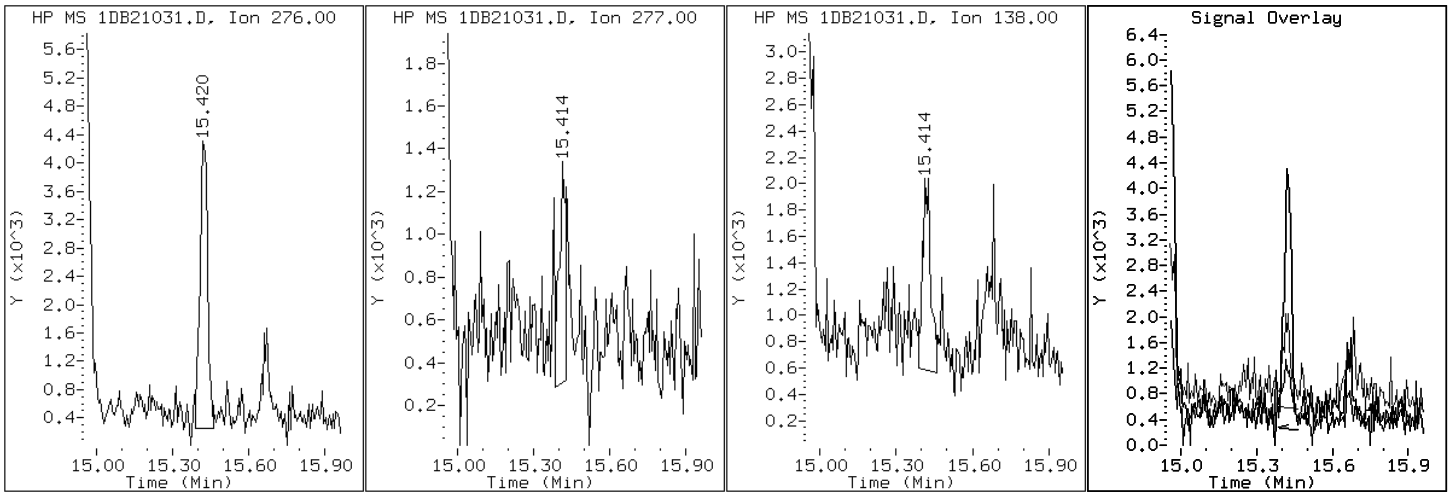
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

25 Benzo(g,h,i)perylene



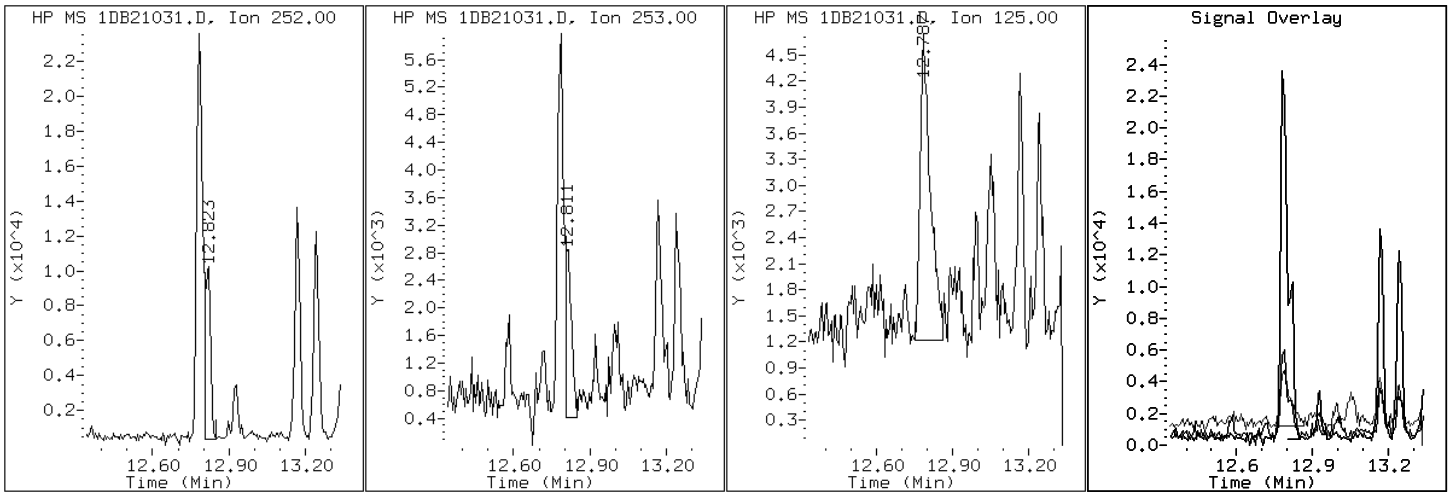
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

20 Benzo(k)fluoranthene



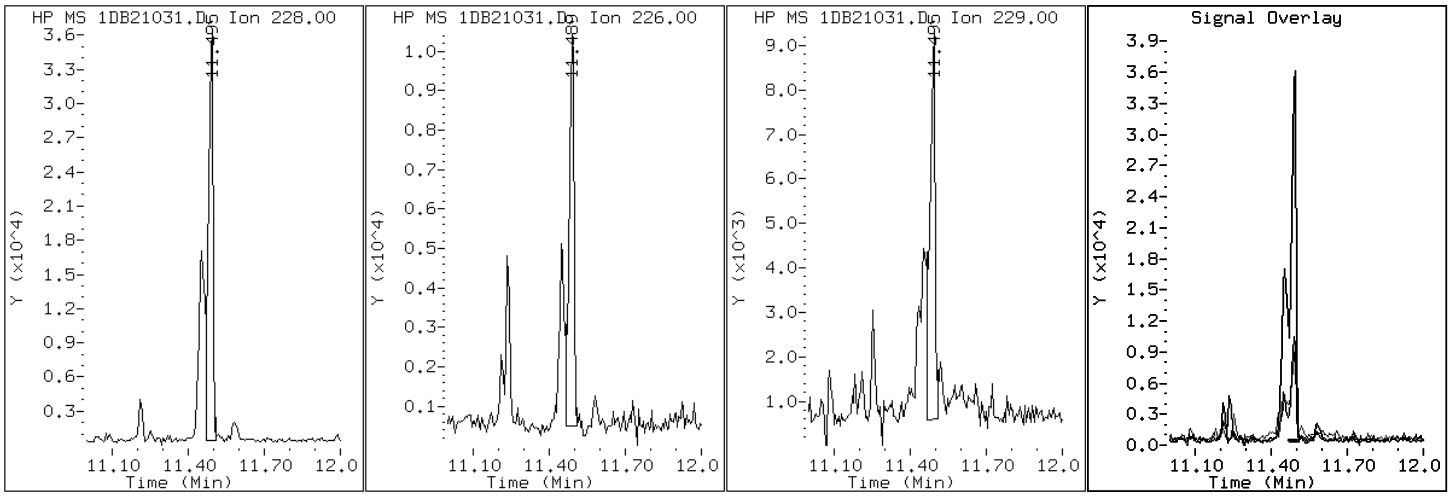
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

18 Chrysene



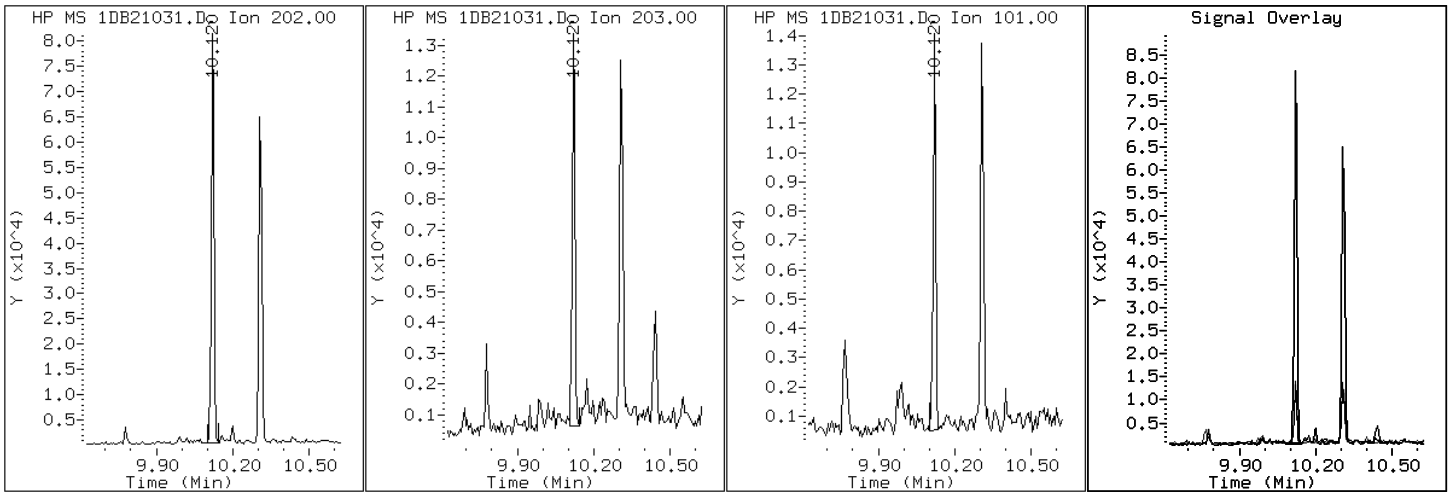
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

14 Fluoranthene



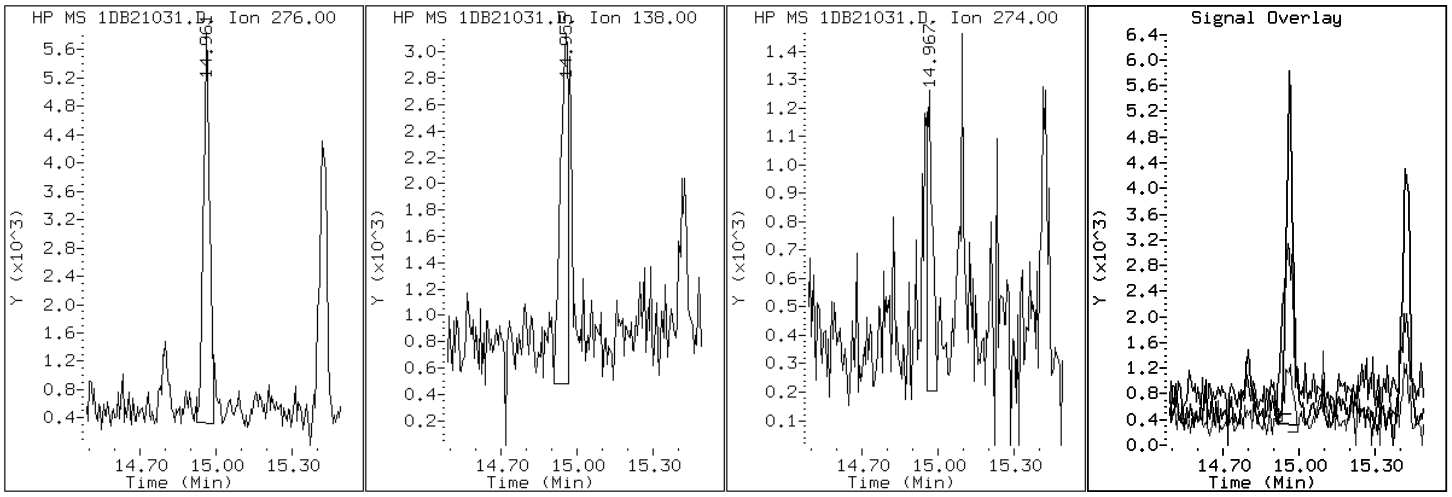
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

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



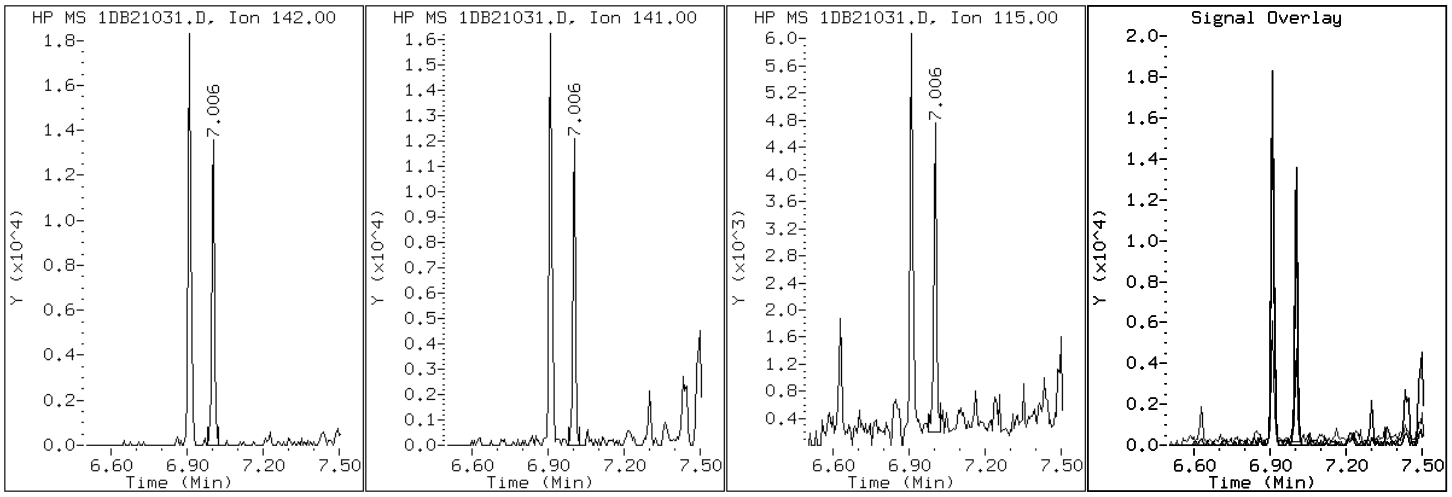
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

4 1-Methylnaphthalene



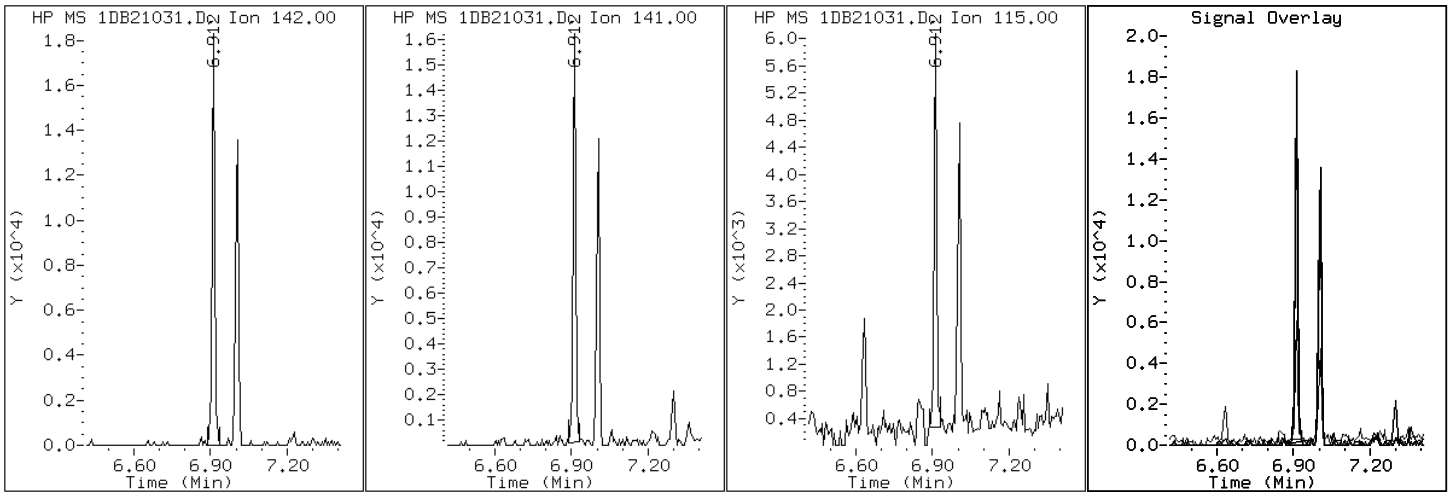
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

3 2-Methylnaphthalene



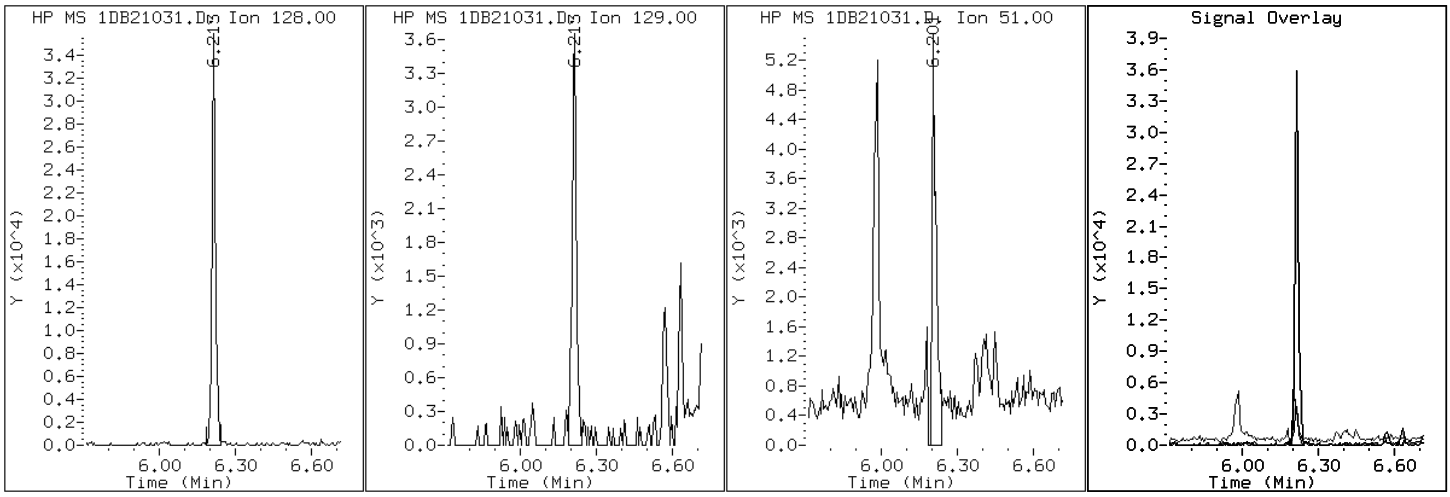
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

2 Naphthalene



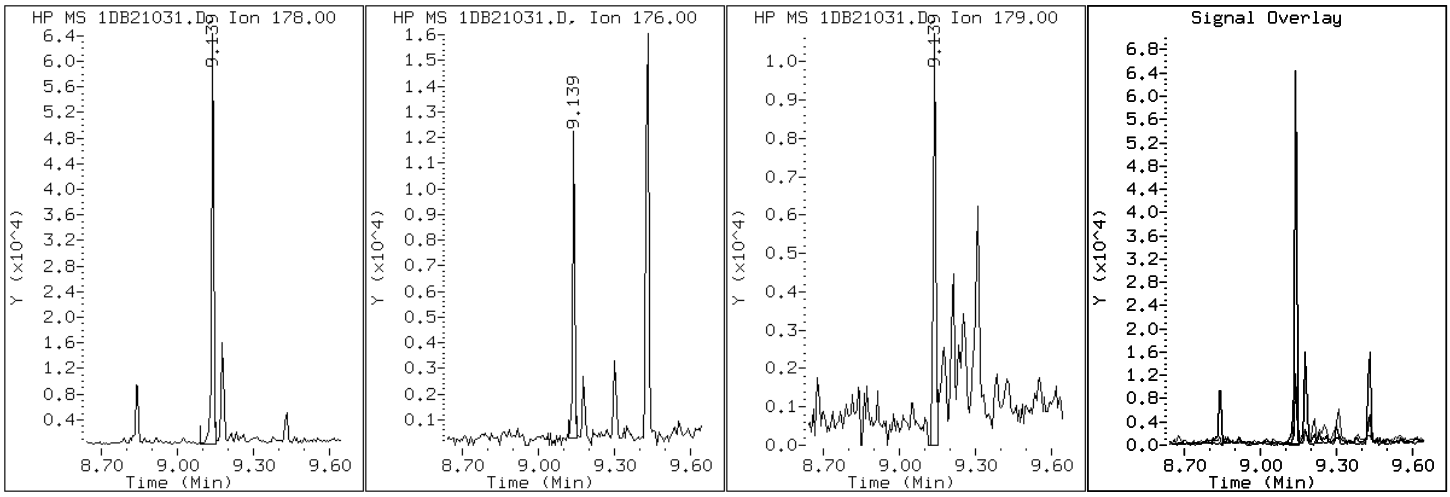
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

10 Phenanthrene



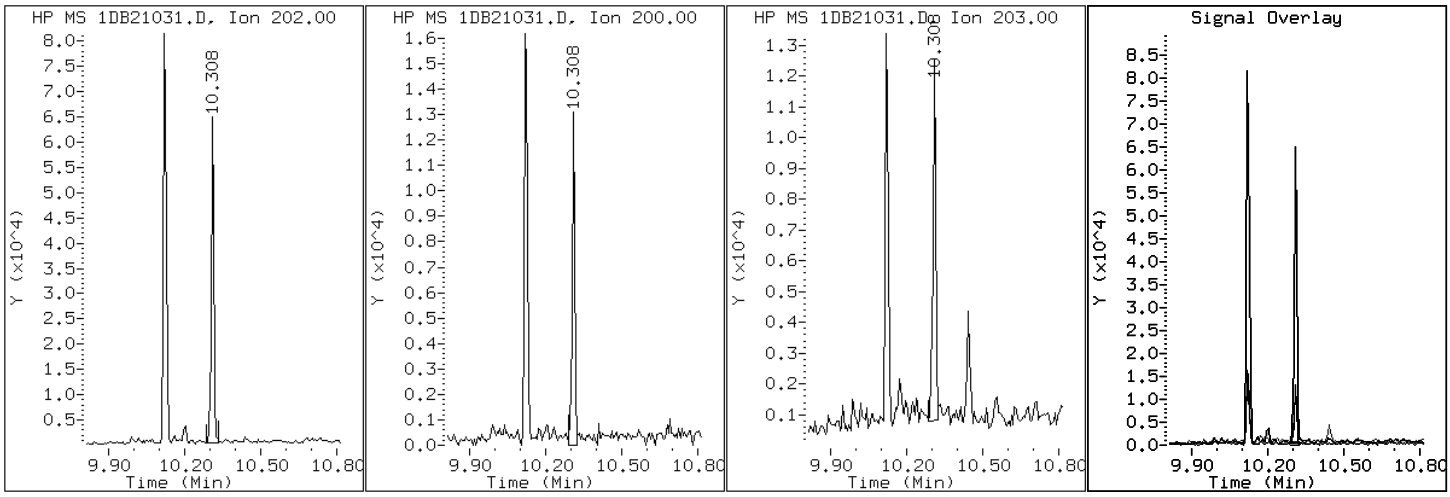
Data File: 1DB21031.D

Date: 21-FEB-2013 22:29

Client ID: FM0160A-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-49-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB21031.D
Inj. Date and Time: 21-FEB-2013 22:29
Instrument ID: BSMSD.i
Client ID: FM0160A-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

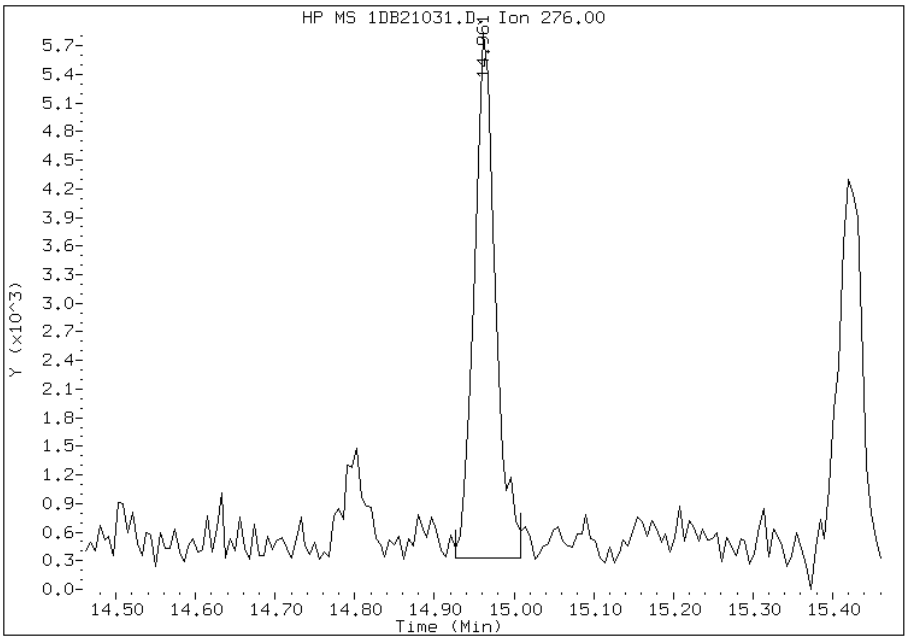
Processing Integration Results

RT: 14.96

Response: 10232

Amount: 0

Conc: 10



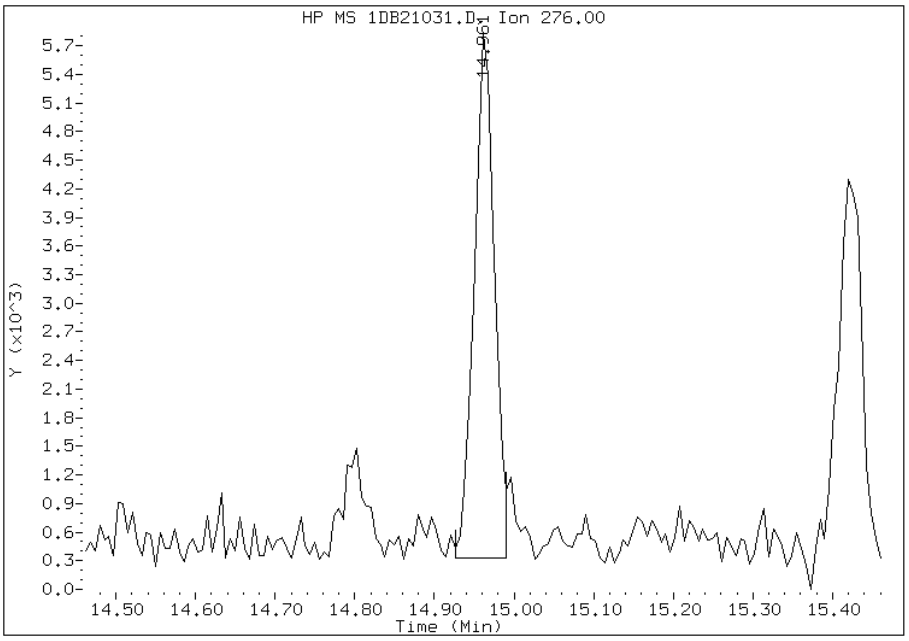
Manual Integration Results

RT: 14.96

Response: 9696

Amount: 0

Conc: 10



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 10:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: FM0160B-CS | Lab Sample ID: 680-87496-50

Matrix: Solid | Lab File ID: 1DB21032.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 15:22

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.11(g) | Date Analyzed: 02/21/2013 22:52

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

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

% Moisture: 16.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	11	J	47	5.9
120-12-7	Anthracene	16		9.9	5.0
56-55-3	Benzo[a]anthracene	33		9.5	4.6
50-32-8	Benzo[a]pyrene	26		12	6.2
205-99-2	Benzo[b]fluoranthene	69		14	7.2
191-24-2	Benzo[g,h,i]perylene	13	J	24	5.2
207-08-9	Benzo[k]fluoranthene	21		9.5	4.3
218-01-9	Chrysene	61		11	5.3
53-70-3	Dibenz(a,h)anthracene	5.1	J	24	4.9
206-44-0	Fluoranthene	78		24	4.7
86-73-7	Fluorene	24	U	24	4.9
193-39-5	Indeno[1,2,3-cd]pyrene	13	J	24	8.4
90-12-0	1-Methylnaphthalene	24	J	47	5.2
91-57-6	2-Methylnaphthalene	31	J	47	8.4
91-20-3	Naphthalene	45	J	47	5.2
85-01-8	Phenanthrene	41		9.5	4.6
129-00-0	Pyrene	60		24	4.4

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21032.D
Lab Smp Id: 680-87496-A-50-A Client Smp ID: FM0160B-CS
Inj Date : 21-FEB-2013 22:52
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-50-A
Misc Info : 680-87496-A-50-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.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	15.110	Weight Extracted
M	16.135	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.190	6.195	(1.000)	3401675	40.0000	
* 6 Acenaphthene-d10	164	7.865	7.863	(1.000)	2031675	40.0000	
* 9 Phenanthrene-d10	188	9.122	9.127	(1.000)	3285448	40.0000	
$ 13 o-Terphenyl	230	9.434	9.432	(1.034)	442770	9.07663	720
* 17 Chrysene-d12	240	11.473	11.477	(1.000)	3220160	40.0000	
* 22 Perylene-d12	264	13.359	13.363	(1.000)	2747346	40.0000	
2 Naphthalene	128	6.214	6.212	(1.004)	51617	0.57377	45
3 2-Methylnaphthalene	142	6.913	6.912	(1.117)	22530	0.39432	31
4 1-Methylnaphthalene	142	7.001	7.006	(1.131)	16363	0.30446	24
5 Acenaphthylene	152	7.736	7.734	(0.984)	11907	0.13574	11
8 Fluorene	166	8.329	8.333	(1.059)	2891	0.04548	3.6
10 Phenanthrene	178	9.140	9.144	(1.002)	48905	0.52103	41
11 Anthracene	178	9.181	9.185	(1.006)	18377	0.19983	16
12 Carbazole	167	9.316	9.320	(1.021)	17733	0.21771	17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.121	10.125	(1.109)	92375	0.98249	78
15 Pyrene	202	10.309	10.313	(0.899)	76527	0.76114	60
16 Benzo(a)anthracene	228	11.449	11.447	(0.998)	38895	0.41293	32
18 Chrysene	228	11.490	11.500	(1.002)	70297	0.77452	61
19 Benzo(b)fluoranthene	252	12.789	12.793	(0.957)	61408	0.88051	69
20 Benzo(k)fluoranthene	252	12.818	12.840	(0.960)	19803	0.26882	21(Q)
21 Benzo(a)pyrene	252	13.247	13.263	(0.992)	22352	0.32507	26
23 Indeno(1,2,3-cd)pyrene	276	14.968	14.990	(1.121)	12369	0.16853	13(M)
24 Dibenzo(a,h)anthracene	278	14.992	15.026	(1.122)	4348	0.06456	5.1(H)
25 Benzo(g,h,i)perylene	276	15.427	15.460	(1.155)	11720	0.16690	13(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: 1DB21032.D

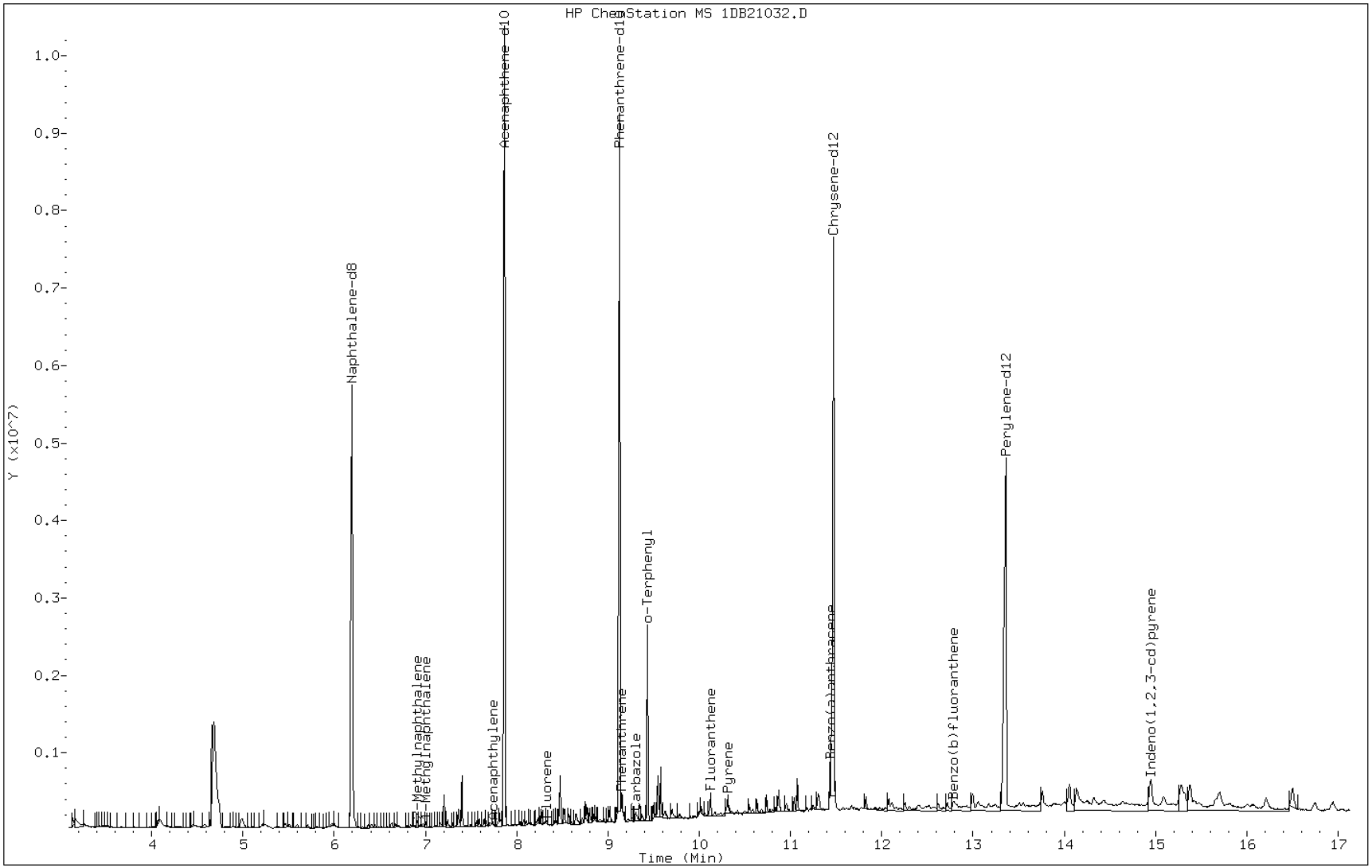
Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS

Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A

Operator: SCC



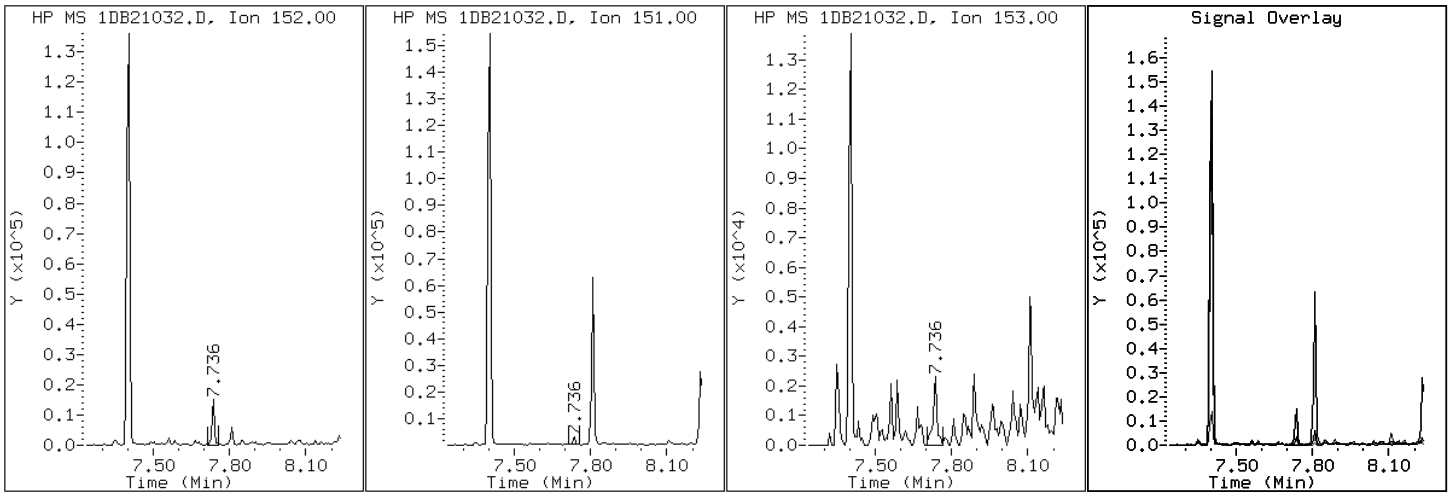
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

5 Acenaphthylene



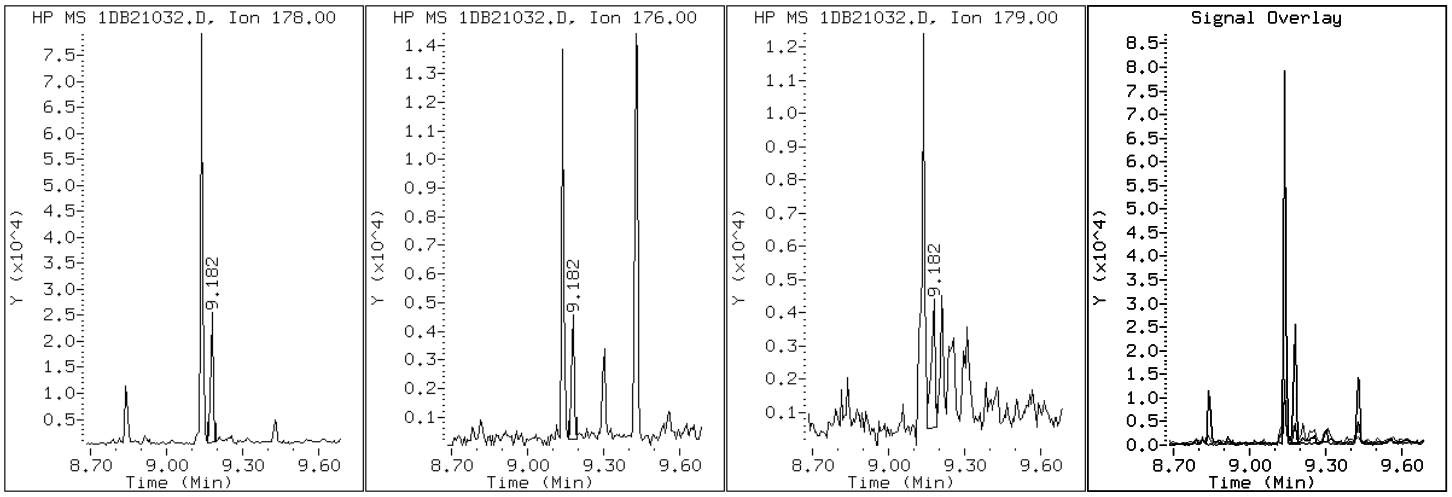
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

11 Anthracene



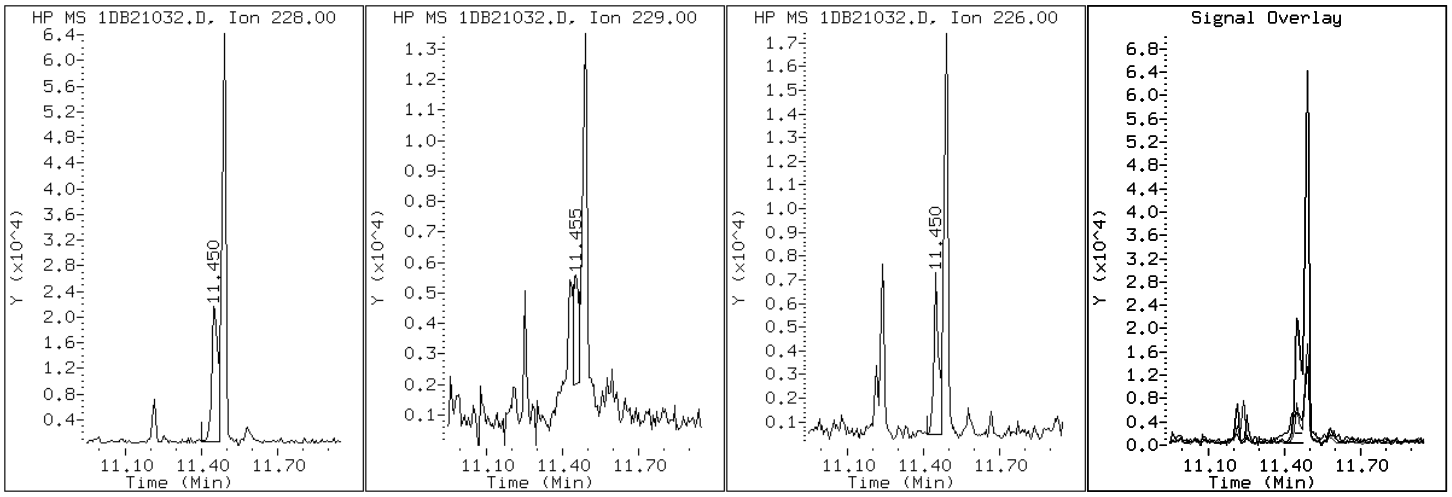
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

16 Benzo(a)anthracene



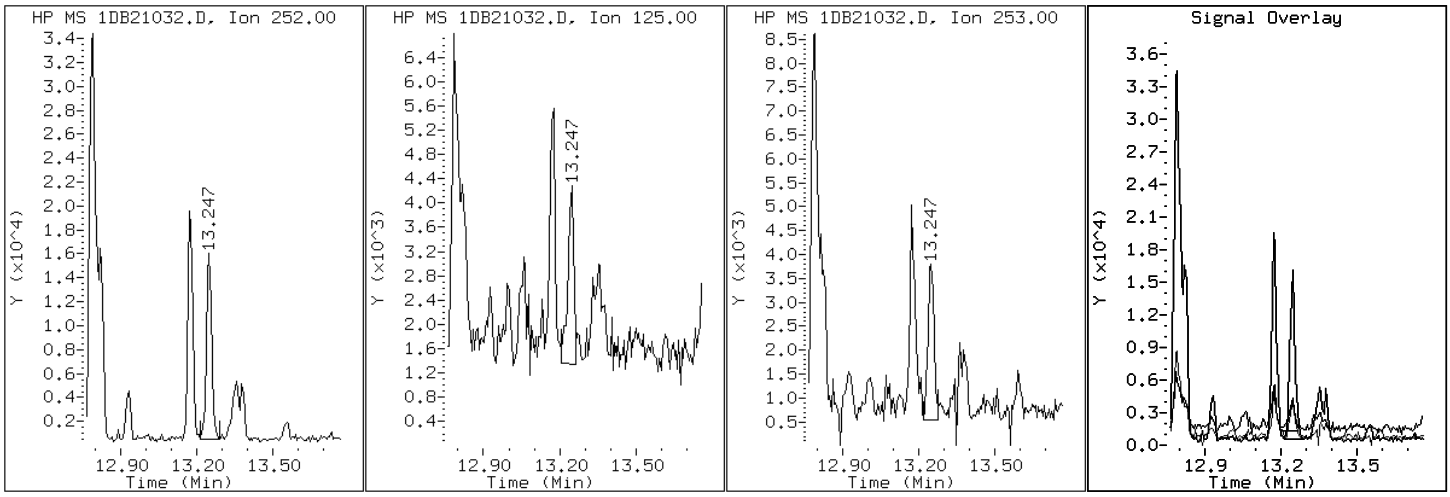
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

21 Benzo(a)pyrene



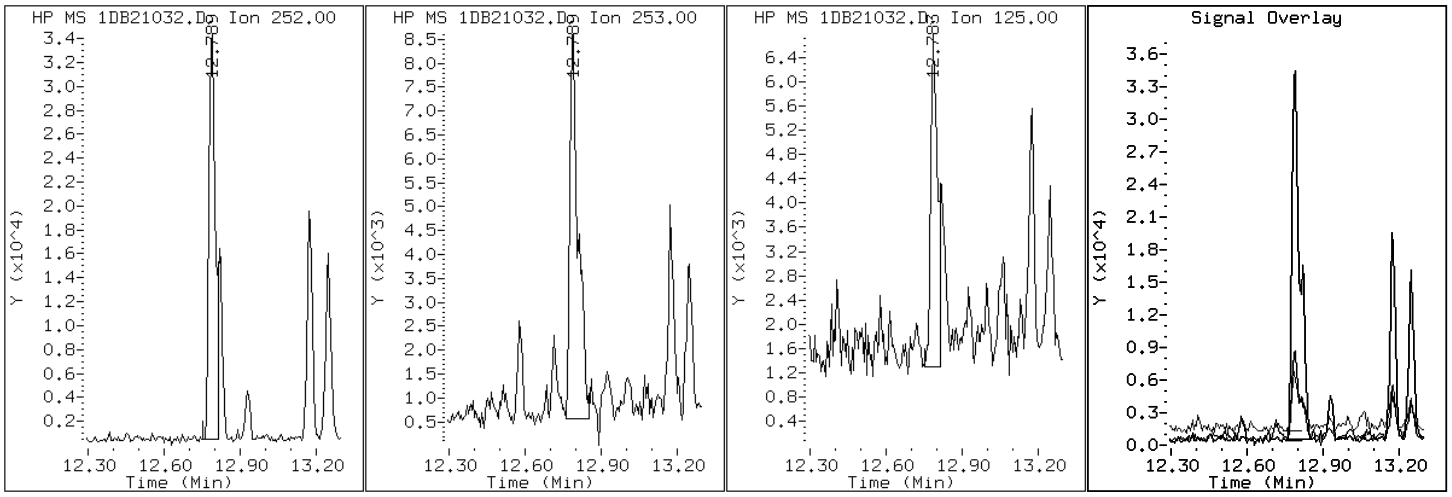
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

19 Benzo(b)fluoranthene



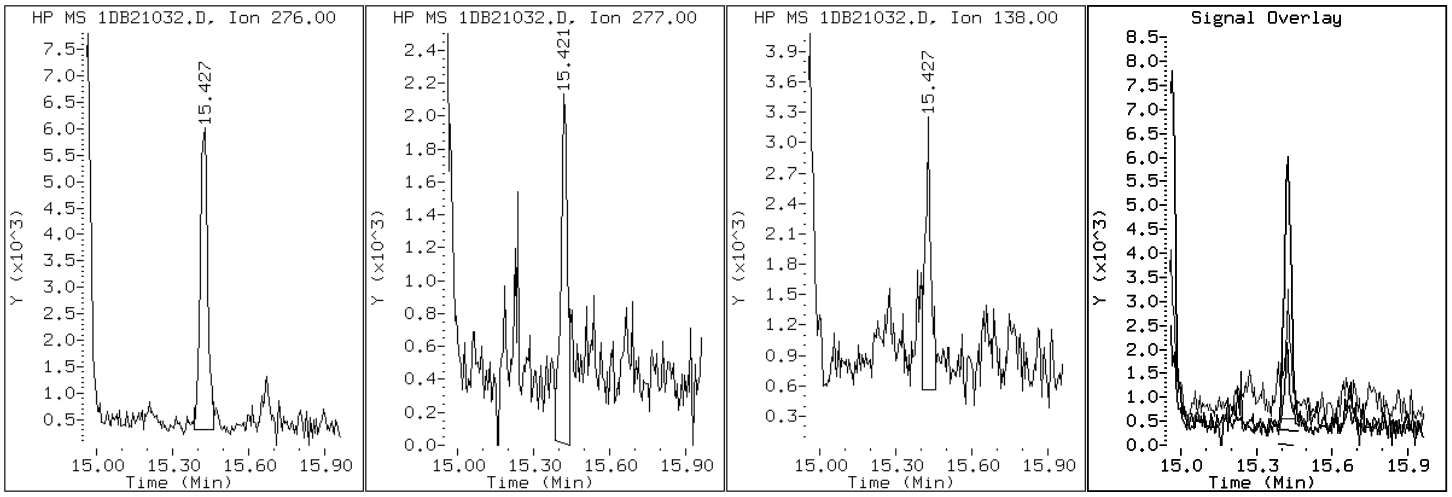
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

25 Benzo(g,h,i)perylene



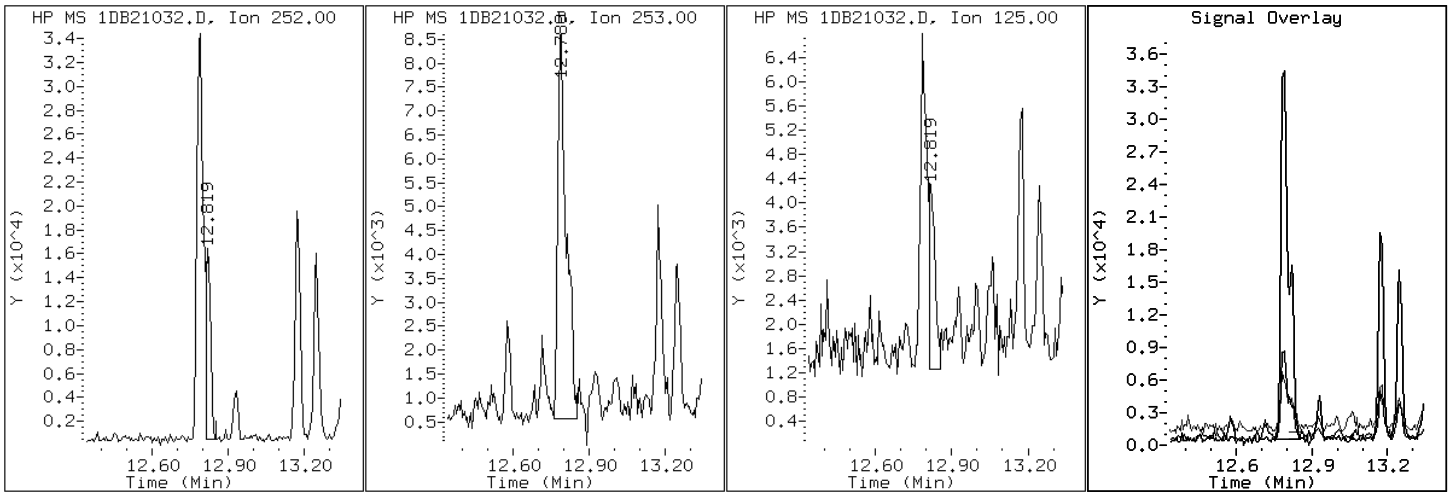
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

20 Benzo(k)fluoranthene



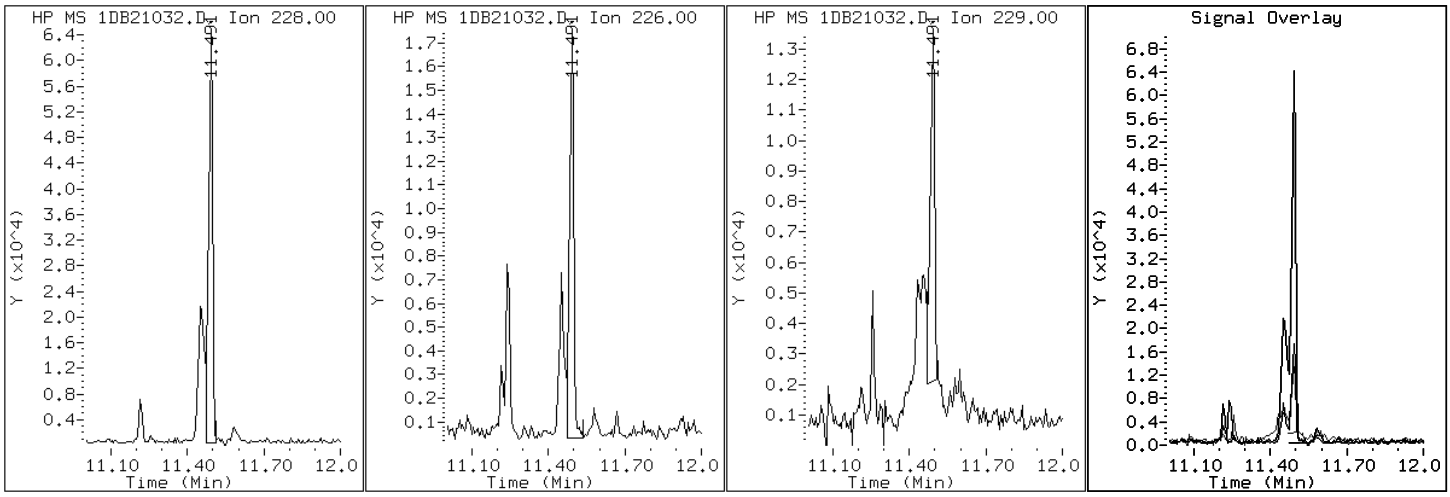
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

18 Chrysene



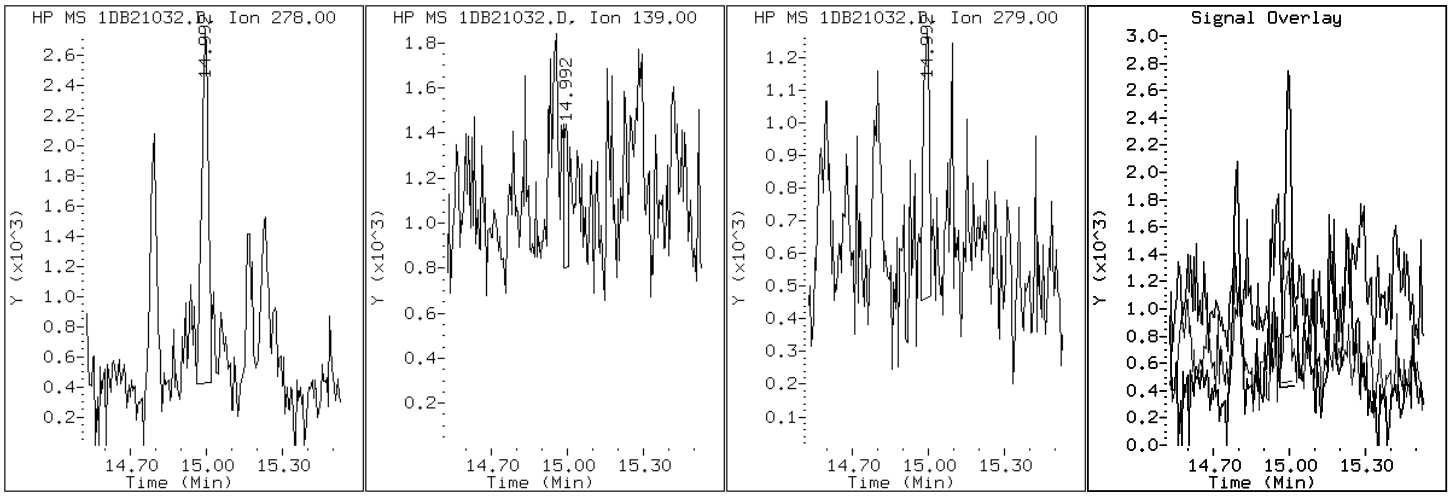
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

24 Dibenzo(a,h)anthracene



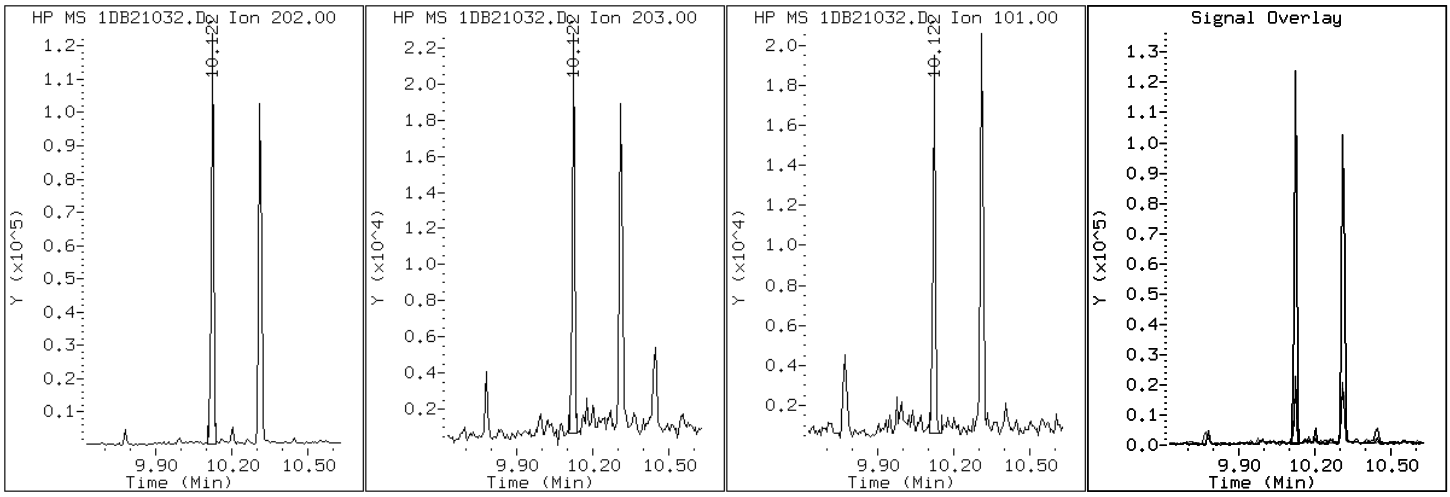
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

14 Fluoranthene



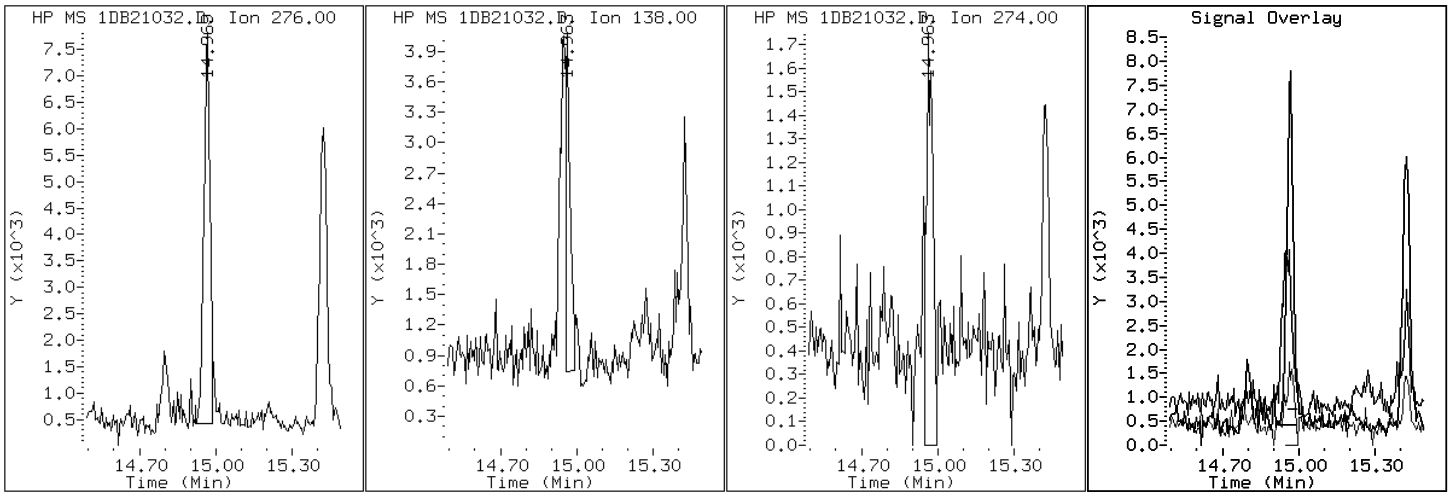
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS | Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A | Operator: SCC

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



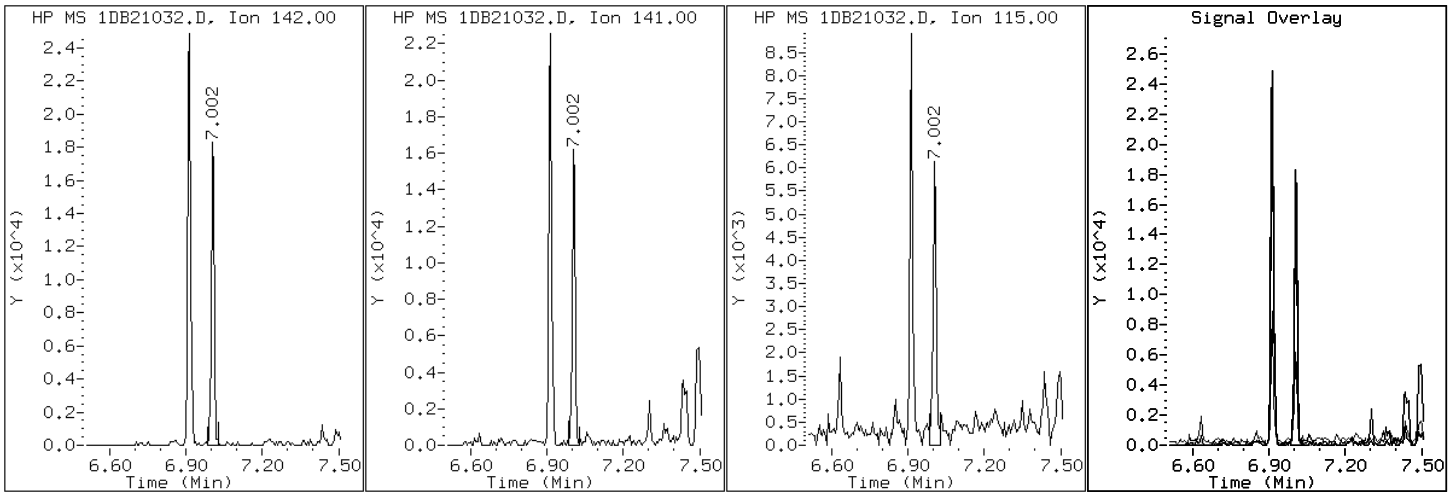
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

4 1-Methylnaphthalene



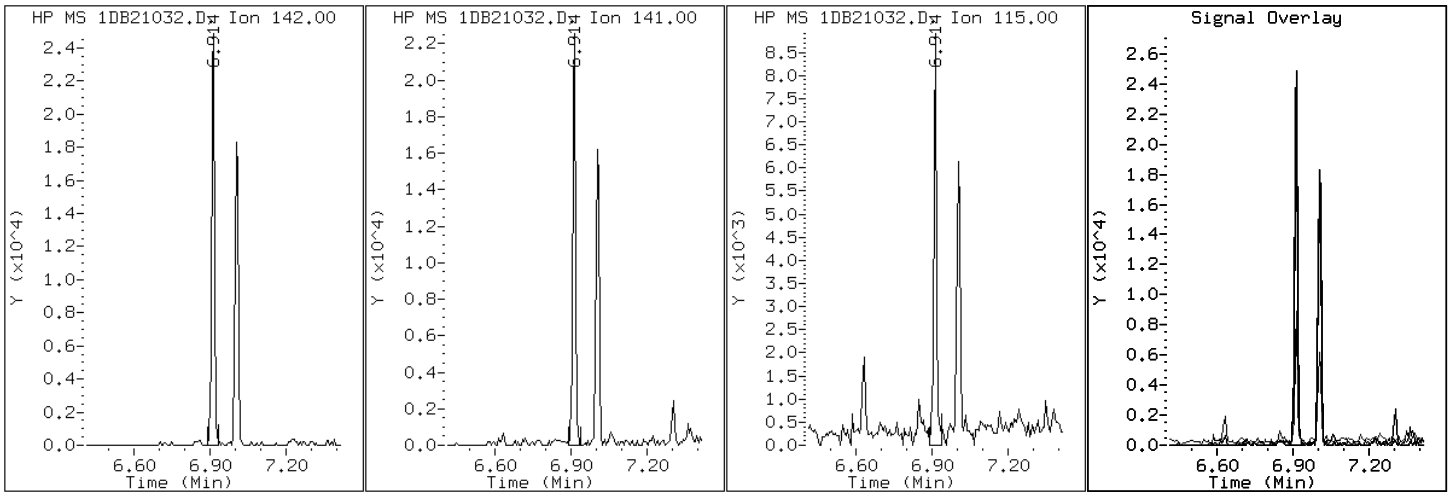
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

3 2-Methylnaphthalene



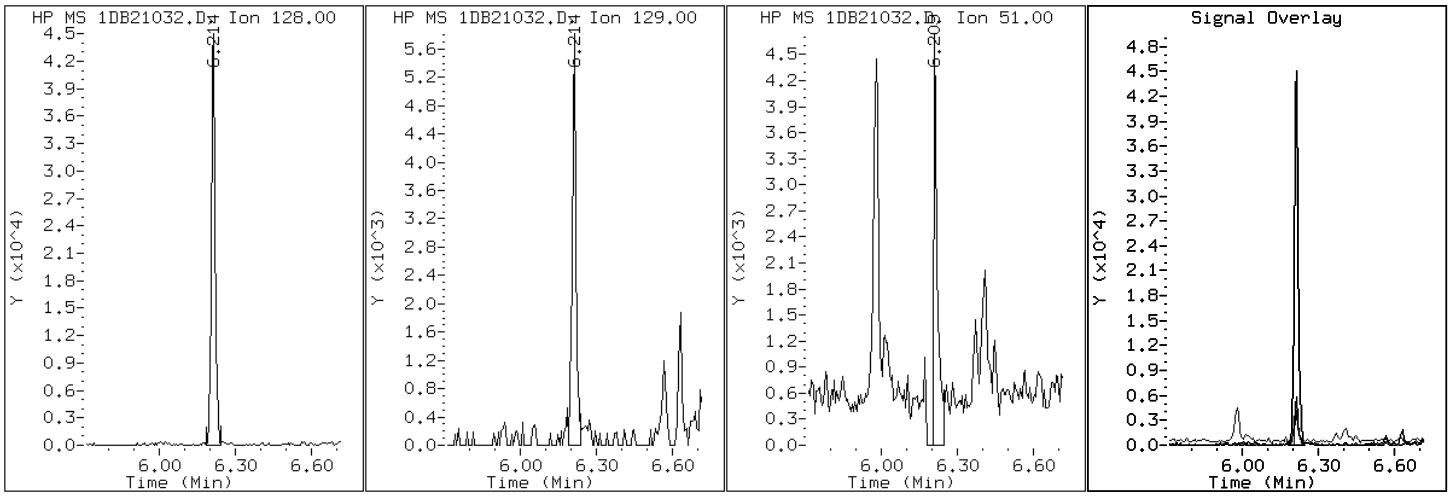
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

2 Naphthalene



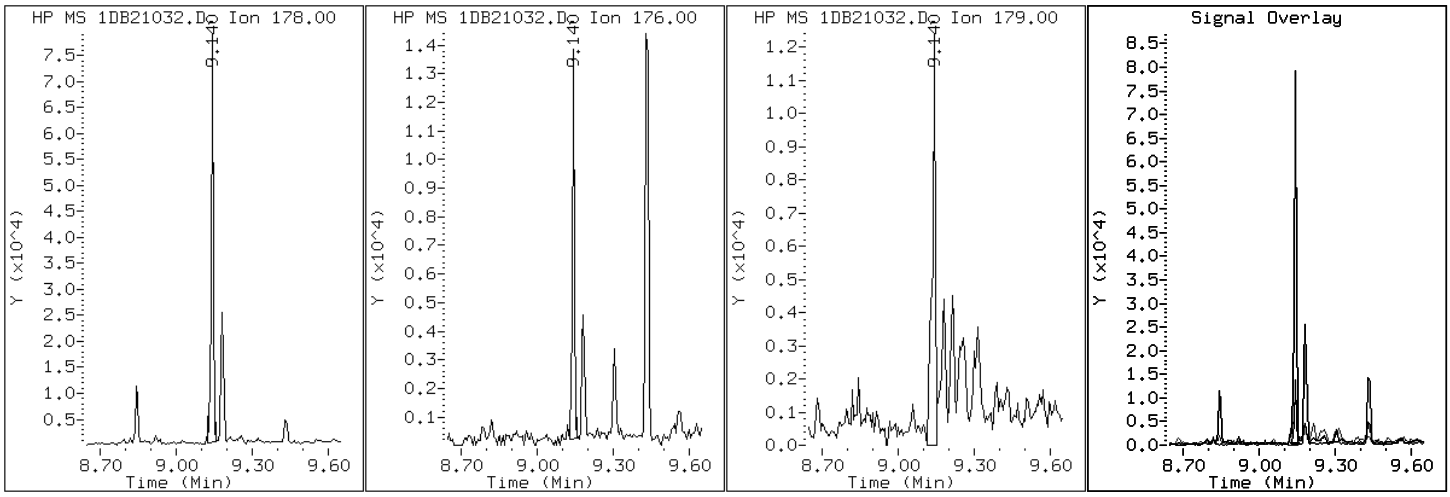
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

10 Phenanthrene



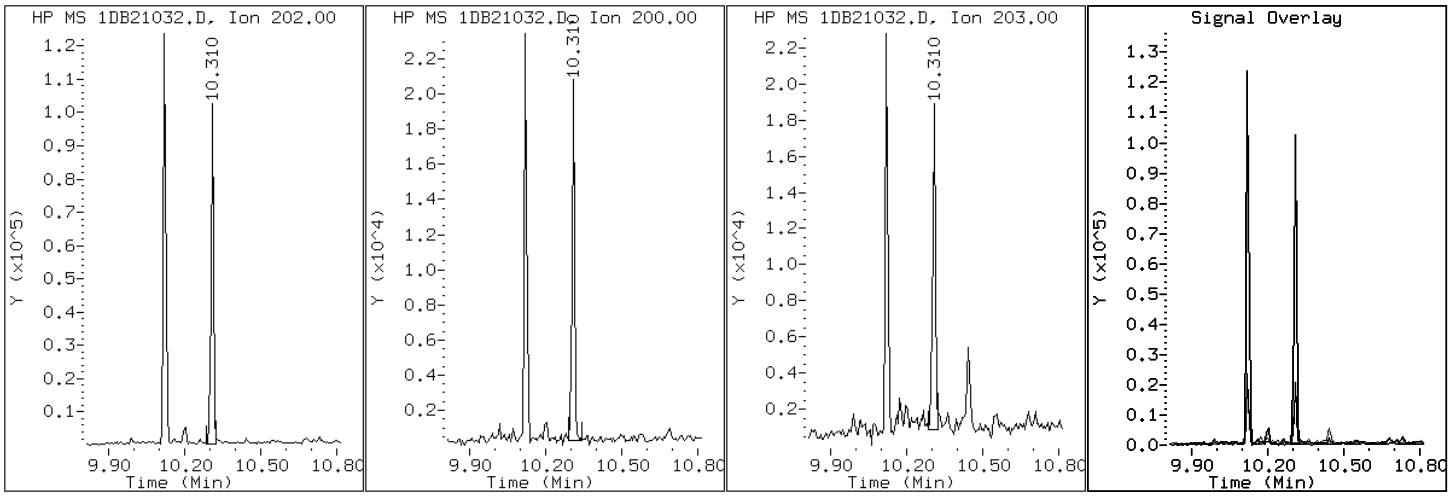
Data File: 1DB21032.D

Date: 21-FEB-2013 22:52

Client ID: FM0160B-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-50-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB21032.D
Inj. Date and Time: 21-FEB-2013 22:52
Instrument ID: BSMSD.i
Client ID: FM0160B-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

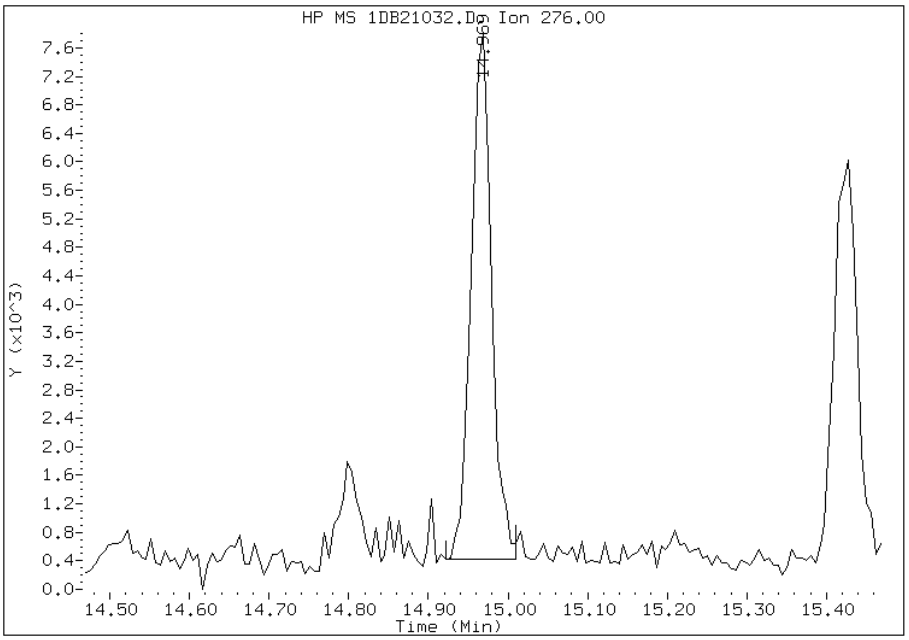
Processing Integration Results

RT: 14.97

Response: 13127

Amount: 0

Conc: 14



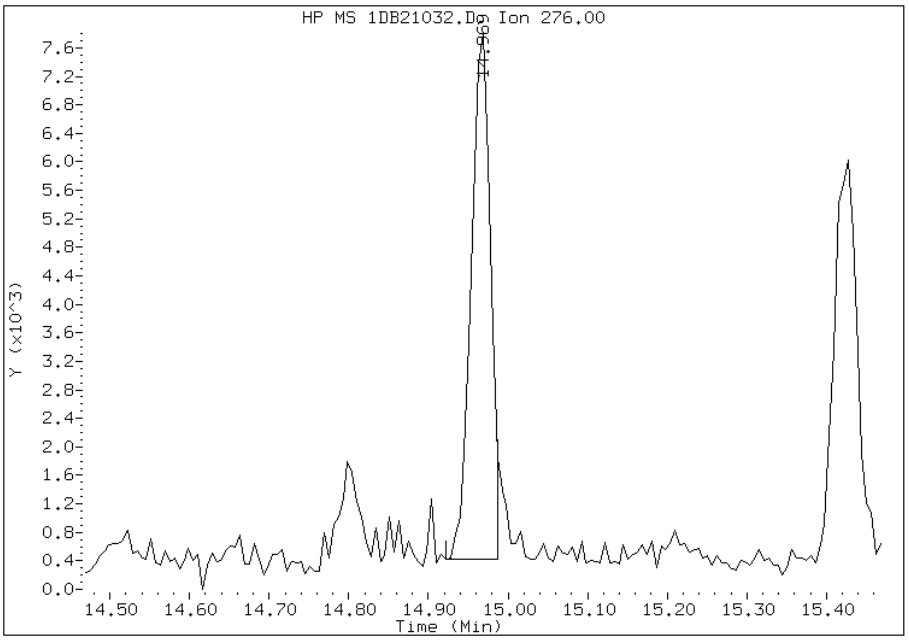
Manual Integration Results

RT: 14.97

Response: 12369

Amount: 0

Conc: 13



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 10:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: FM0160C-CS | Lab Sample ID: 680-87496-51

Matrix: Solid | Lab File ID: 1DB21033.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 15:28

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.48(g) | Date Analyzed: 02/21/2013 23:14

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

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

% Moisture: 14.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	5.9	J	45	5.6
120-12-7	Anthracene	9.6		9.5	4.7
56-55-3	Benzo[a]anthracene	27		9.0	4.4
50-32-8	Benzo[a]pyrene	23		12	5.9
205-99-2	Benzo[b]fluoranthene	42		14	6.9
191-24-2	Benzo[g,h,i]perylene	12	J	23	5.0
207-08-9	Benzo[k]fluoranthene	18		9.0	4.1
218-01-9	Chrysene	34		10	5.1
53-70-3	Dibenz(a,h)anthracene	5.2	J	23	4.6
206-44-0	Fluoranthene	47		23	4.5
86-73-7	Fluorene	23	U	23	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	13	J	23	8.0
90-12-0	1-Methylnaphthalene	20	J	45	5.0
91-57-6	2-Methylnaphthalene	23	J	45	8.0
91-20-3	Naphthalene	38	J	45	5.0
85-01-8	Phenanthrene	32		9.0	4.4
129-00-0	Pyrene	37		23	4.2

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

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21033.D
Lab Smp Id: 680-87496-A-51-A Client Smp ID: FM0160C-CS
Inj Date : 21-FEB-2013 23:14
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-51-A
Misc Info : 680-87496-A-51-A
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
Amt * DF * 1/Vi * Vt/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	15.480	Weight Extracted
M	14.158	% 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/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.190	6.195	(1.000)	3404157	40.0000	
* 6 Acenaphthene-d10	164	7.864	7.863	(1.000)	2043313	40.0000	
* 9 Phenanthrene-d10	188	9.127	9.127	(1.000)	3331381	40.0000	
$ 13 o-Terphenyl	230	9.433	9.432	(1.033)	427792	8.64867	650
* 17 Chrysene-d12	240	11.472	11.477	(1.000)	3186873	40.0000	
* 22 Perylene-d12	264	13.358	13.363	(1.000)	2724426	40.0000	
2 Naphthalene	128	6.213	6.212	(1.004)	45896	0.50980	38
3 2-Methylnaphthalene	142	6.912	6.912	(1.117)	17706	0.30966	23
4 1-Methylnaphthalene	142	7.000	7.006	(1.131)	14347	0.26676	20
5 Acenaphthylene	152	7.735	7.734	(0.984)	6873	0.07791	5.9
8 Fluorene	166	8.328	8.333	(1.059)	2440	0.03817	2.9
10 Phenanthrene	178	9.139	9.144	(1.001)	40494	0.42547	32
11 Anthracene	178	9.180	9.185	(1.006)	11937	0.12801	9.6
12 Carbazole	167	9.315	9.320	(1.021)	6136	0.07429	5.6

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
14 Fluoranthene	202	10.120	10.125	(1.109)	59212	0.62109	47
15 Pyrene	202	10.308	10.313	(0.899)	49254	0.49500	37
16 Benzo(a)anthracene	228	11.448	11.447	(0.998)	33879	0.36344	27
18 Chrysene	228	11.489	11.500	(1.002)	40371	0.44945	34
19 Benzo(b)fluoranthene	252	12.788	12.793	(0.957)	38279	0.55349	42
20 Benzo(k)fluoranthene	252	12.823	12.840	(0.960)	17676	0.24196	18
21 Benzo(a)pyrene	252	13.246	13.263	(0.992)	21043	0.30860	23
23 Indeno(1,2,3-cd)pyrene	276	14.962	14.990	(1.120)	12491	0.17162	13(M)
24 Dibenzo(a,h)anthracene	278	14.985	15.026	(1.122)	4602	0.06891	5.2
25 Benzo(g,h,i)perylene	276	15.420	15.460	(1.154)	11372	0.16331	12(H)

QC Flag Legend

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

Data File: 1DB21033.D

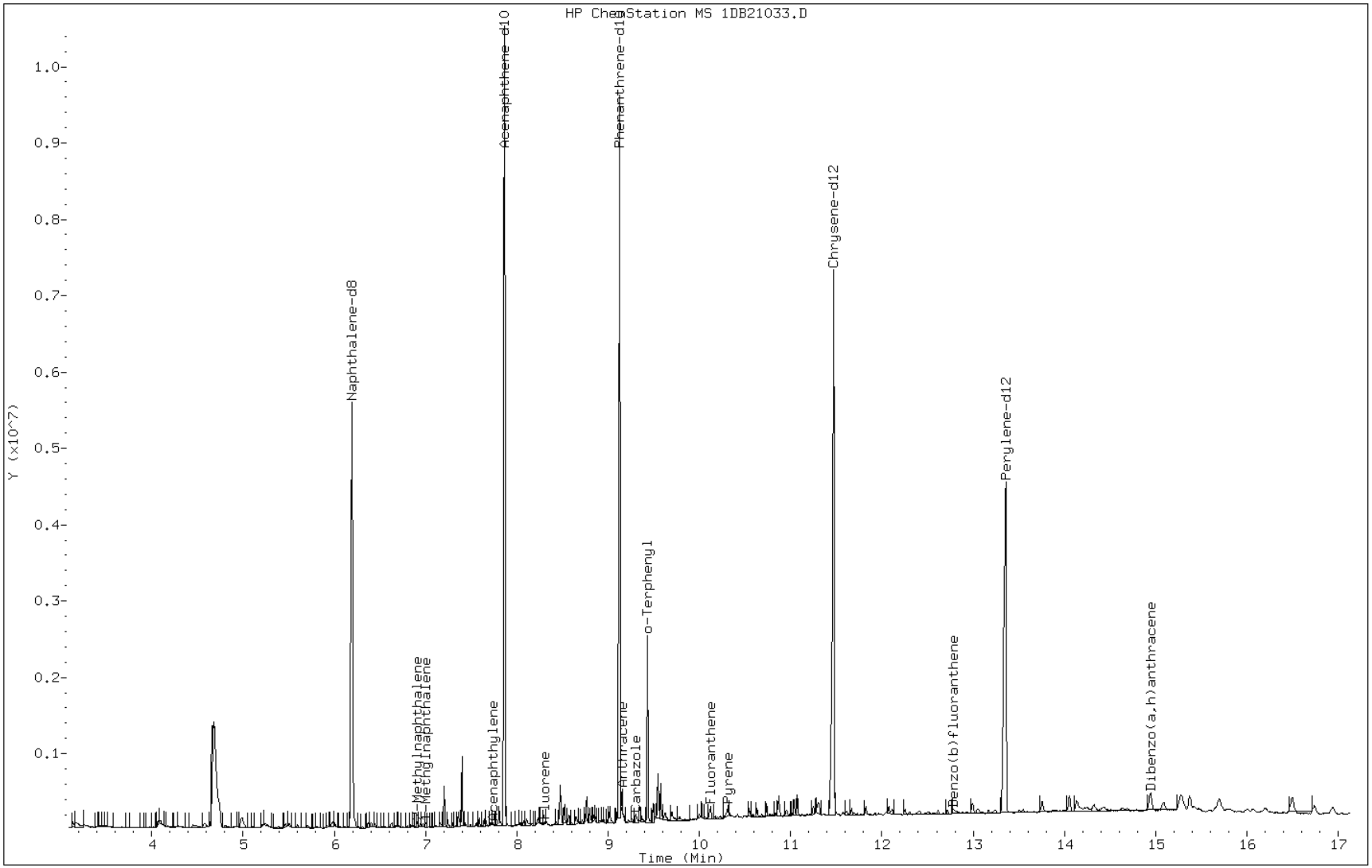
Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS

Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A

Operator: SCC



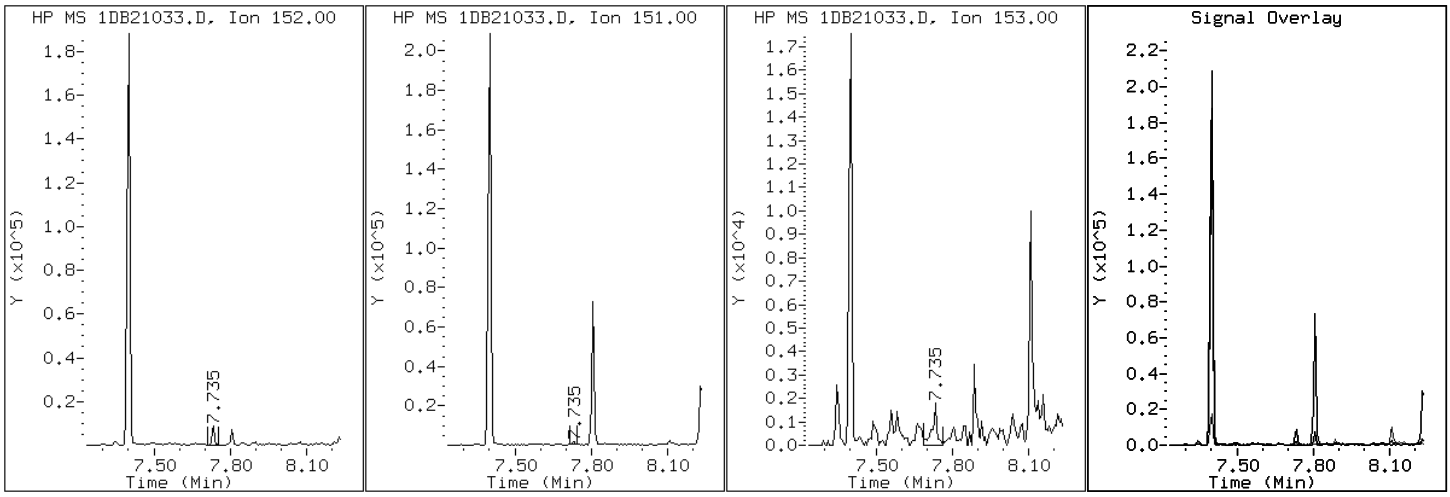
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

5 Acenaphthylene



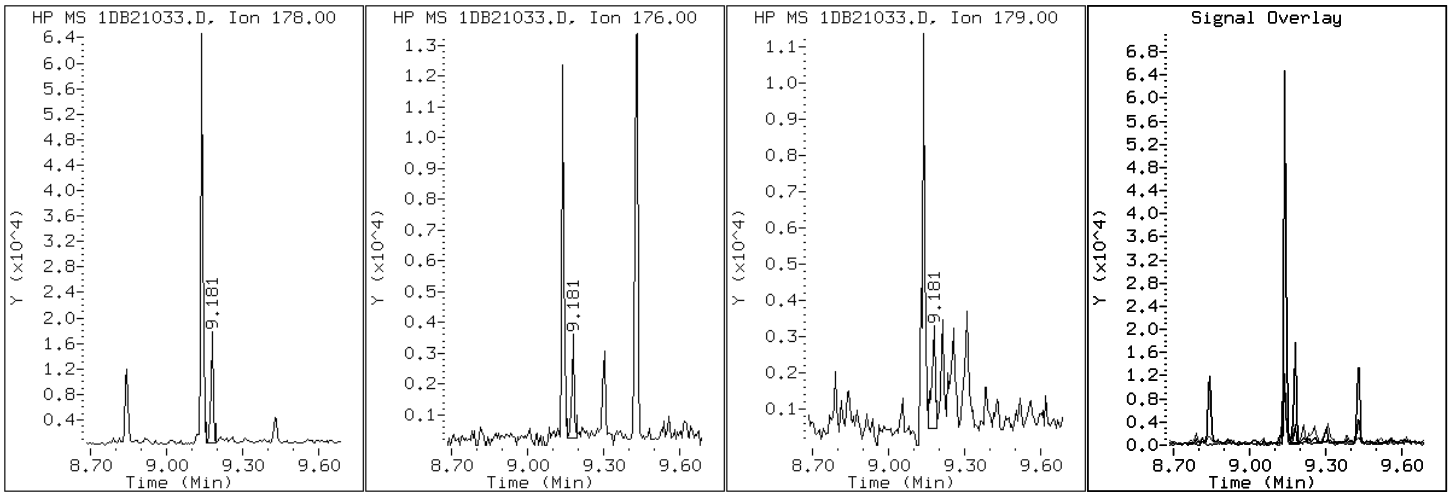
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

11 Anthracene



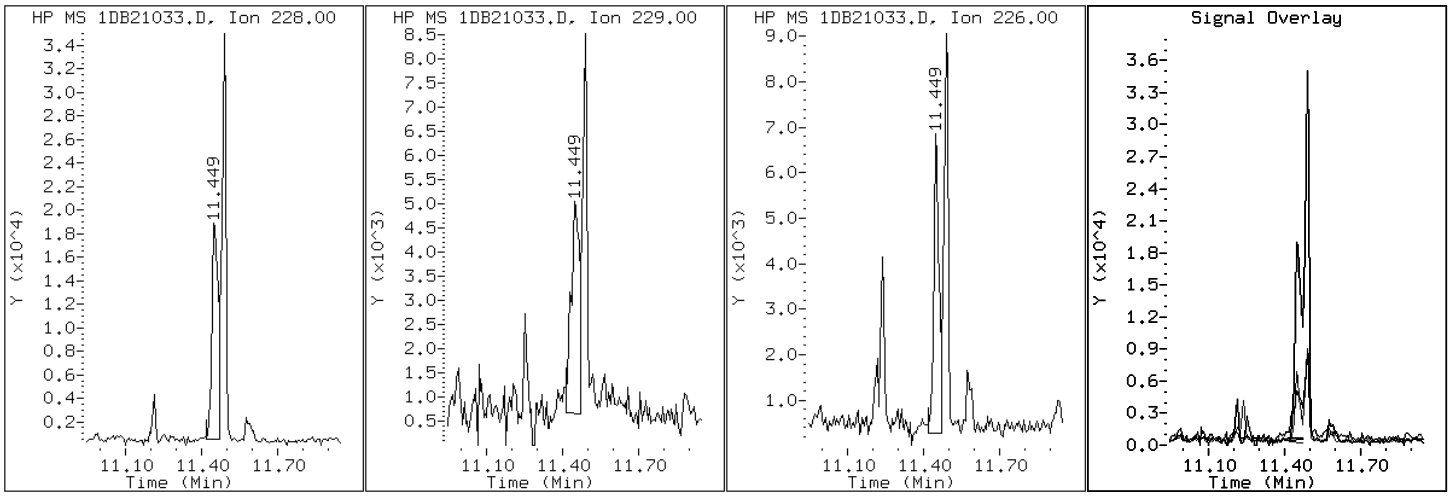
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

16 Benzo(a)anthracene



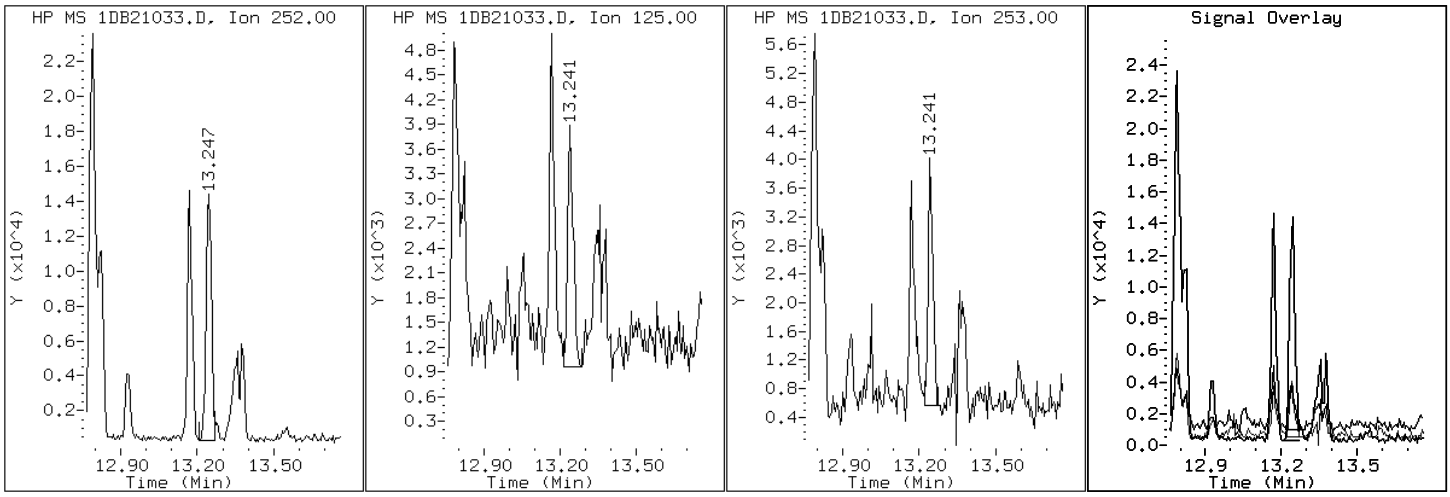
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

21 Benzo(a)pyrene



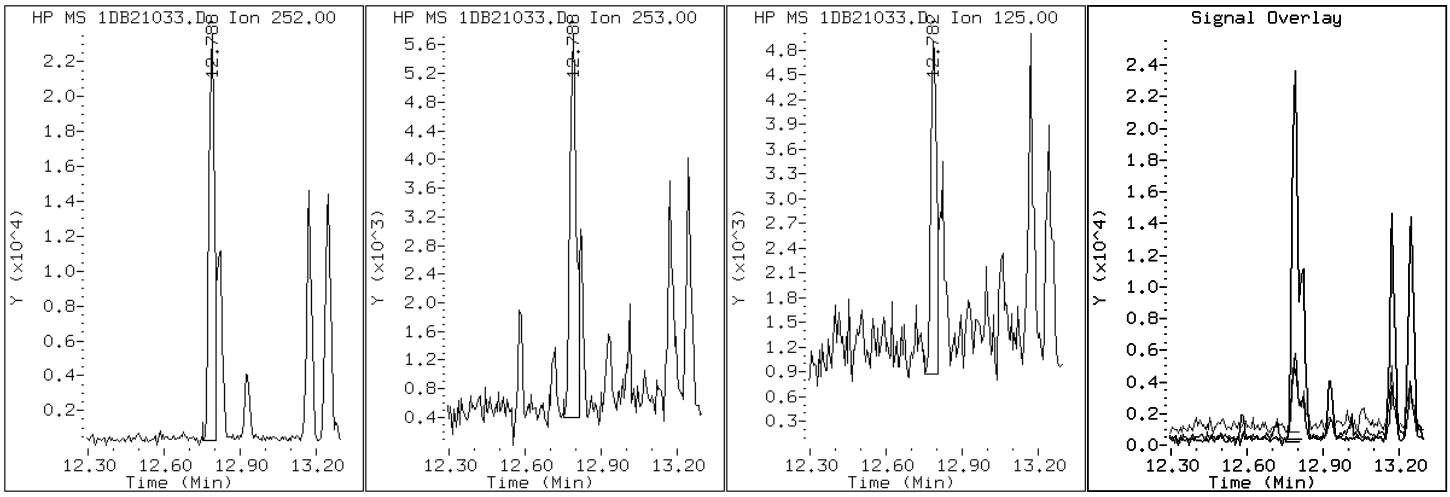
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

19 Benzo(b)fluoranthene



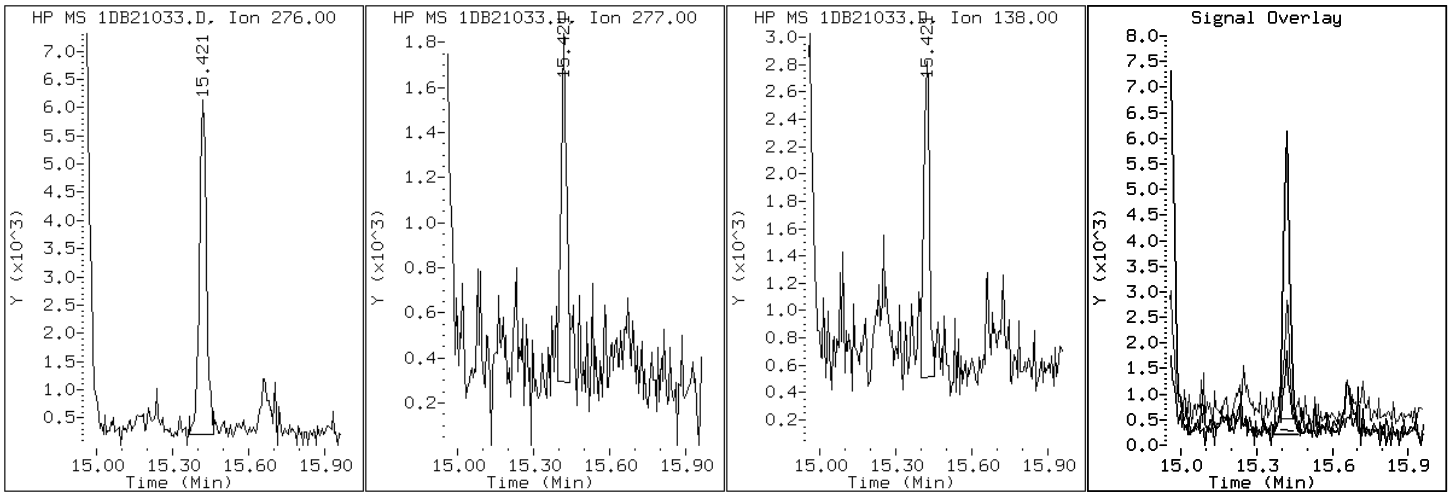
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

25 Benzo(g,h,i)perylene



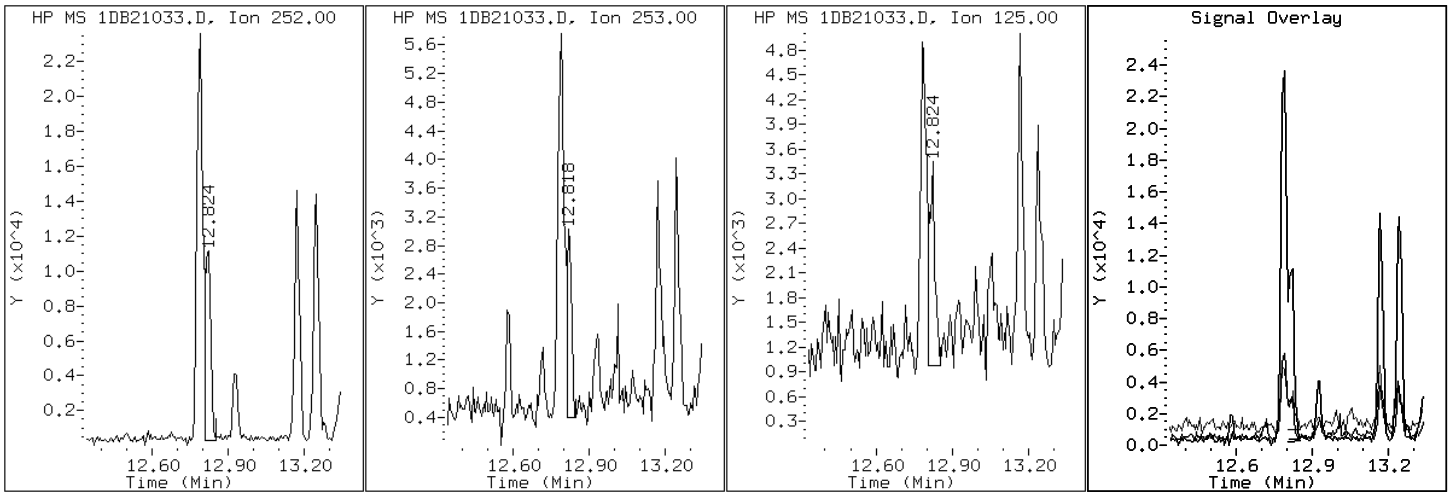
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

20 Benzo(k)fluoranthene



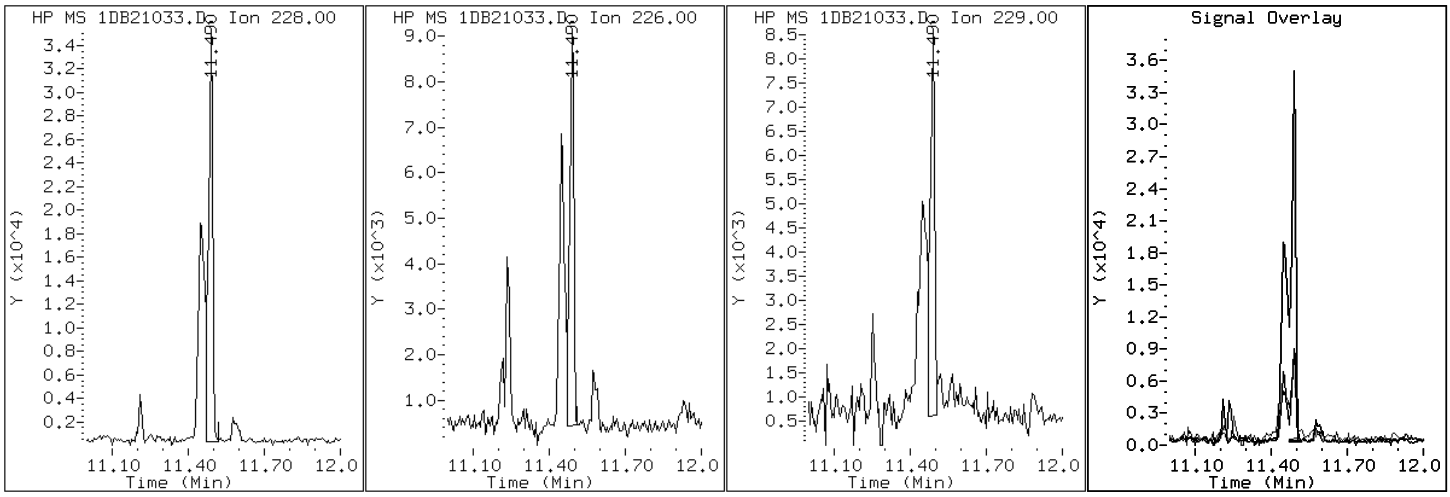
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

18 Chrysene



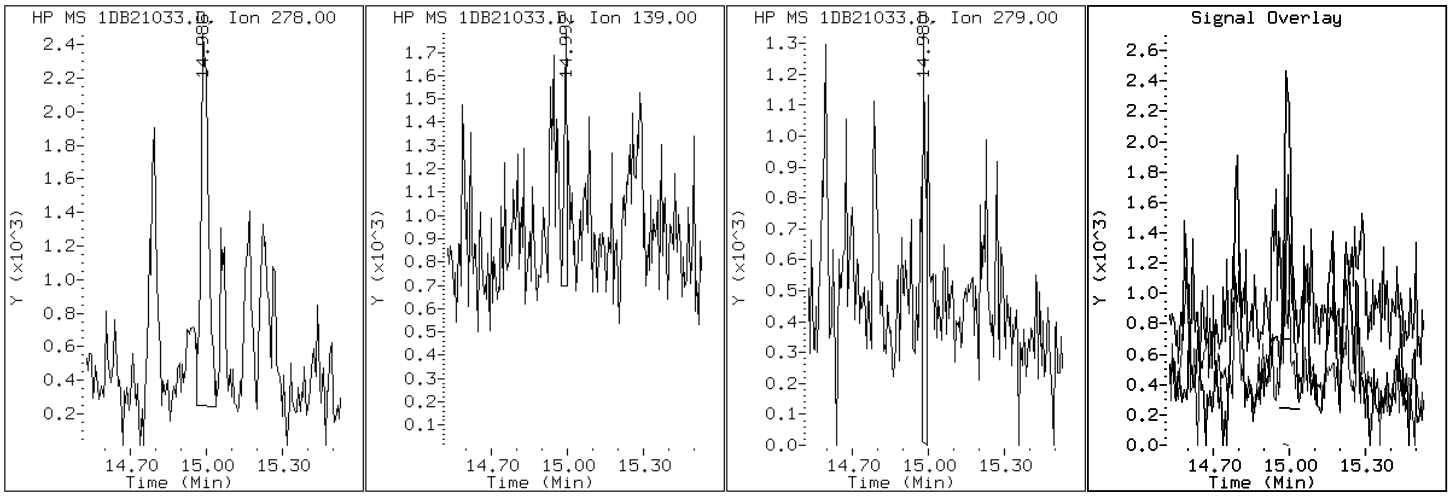
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

24 Dibenzo(a,h)anthracene



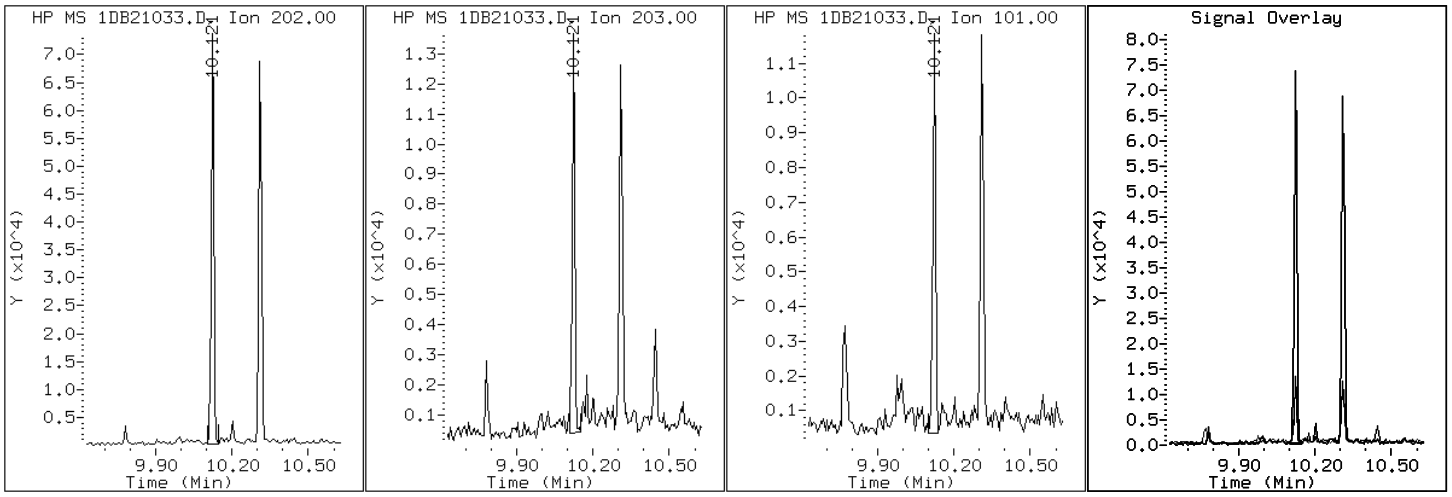
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

14 Fluoranthene



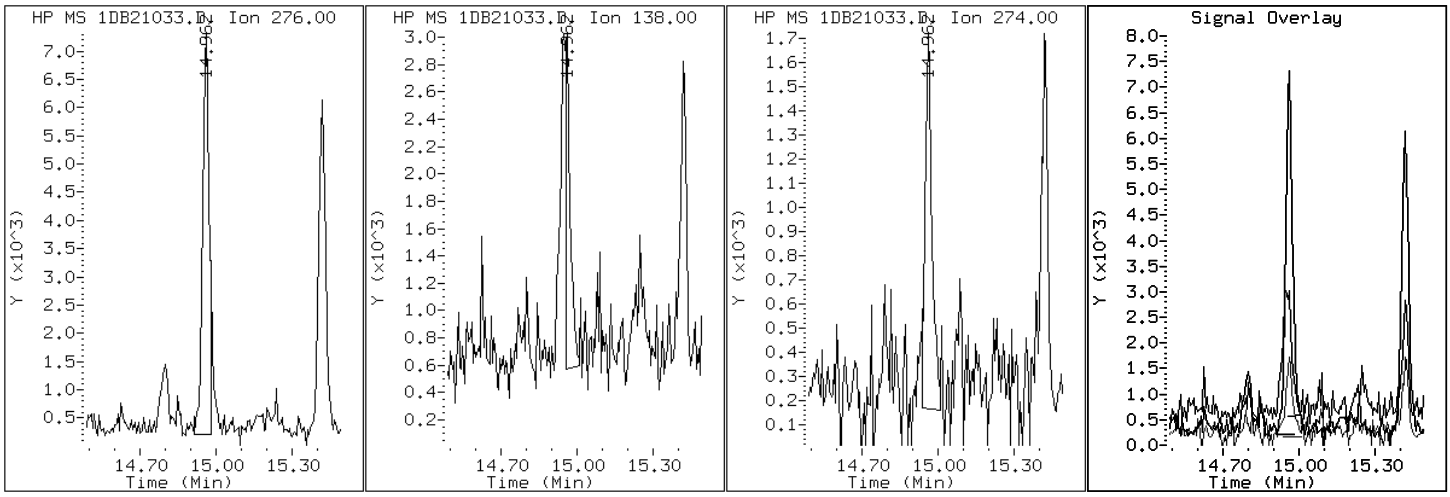
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

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



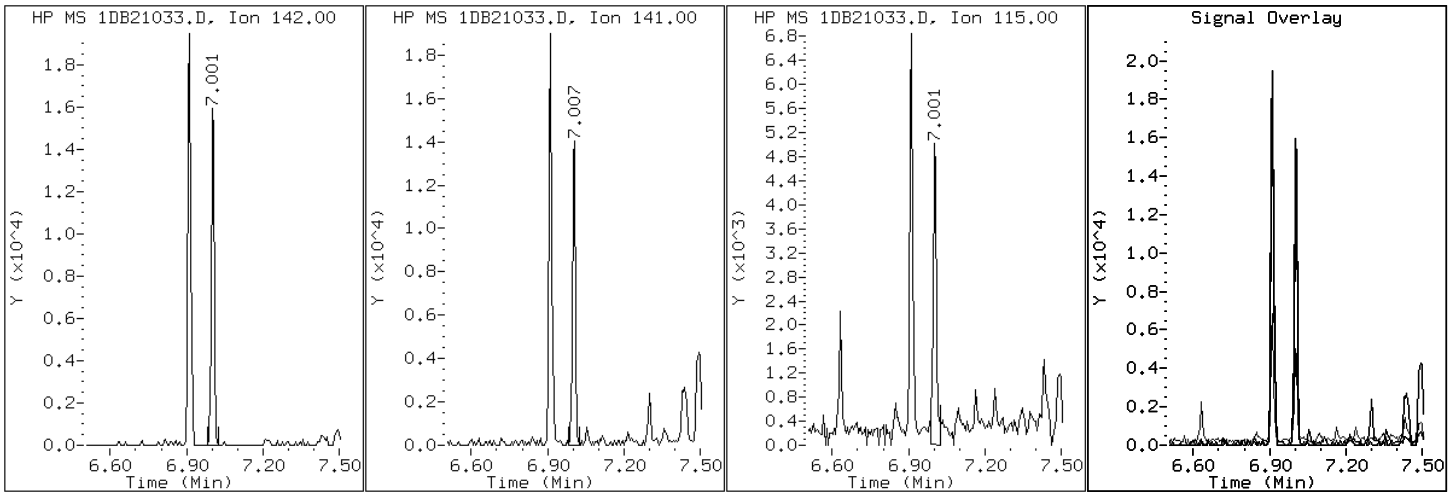
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

4 1-Methylnaphthalene



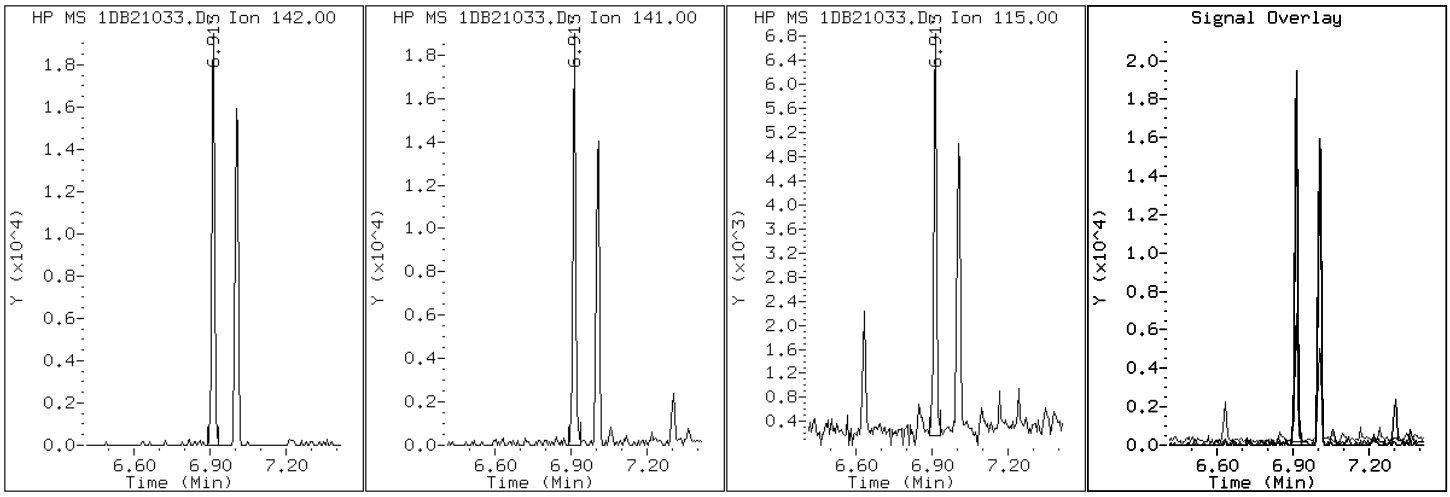
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

3 2-Methylnaphthalene



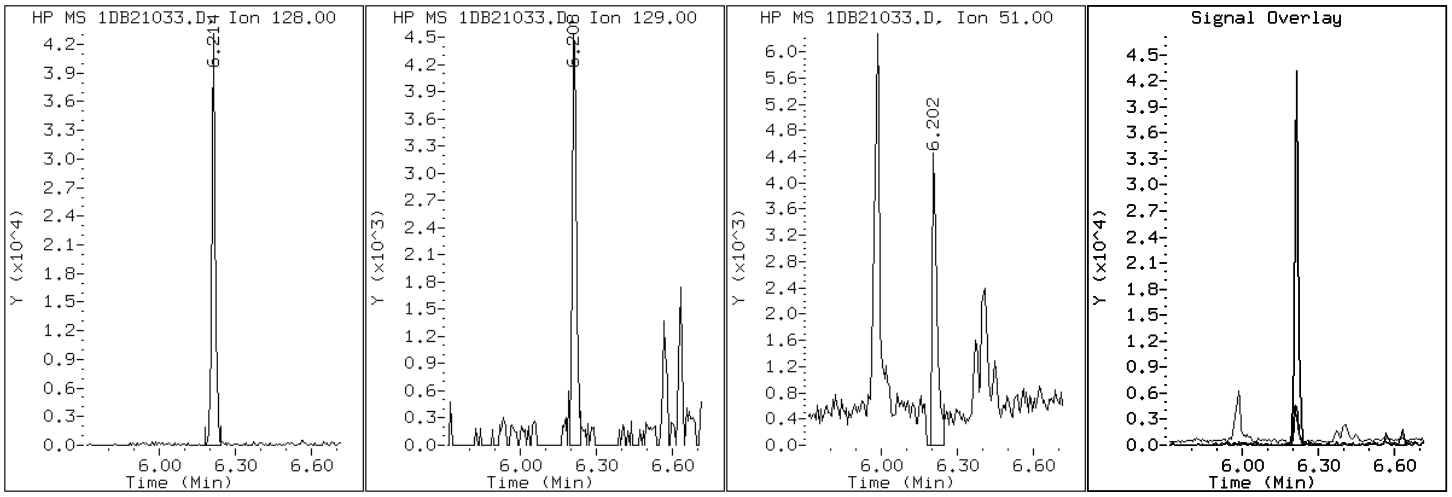
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

2 Naphthalene



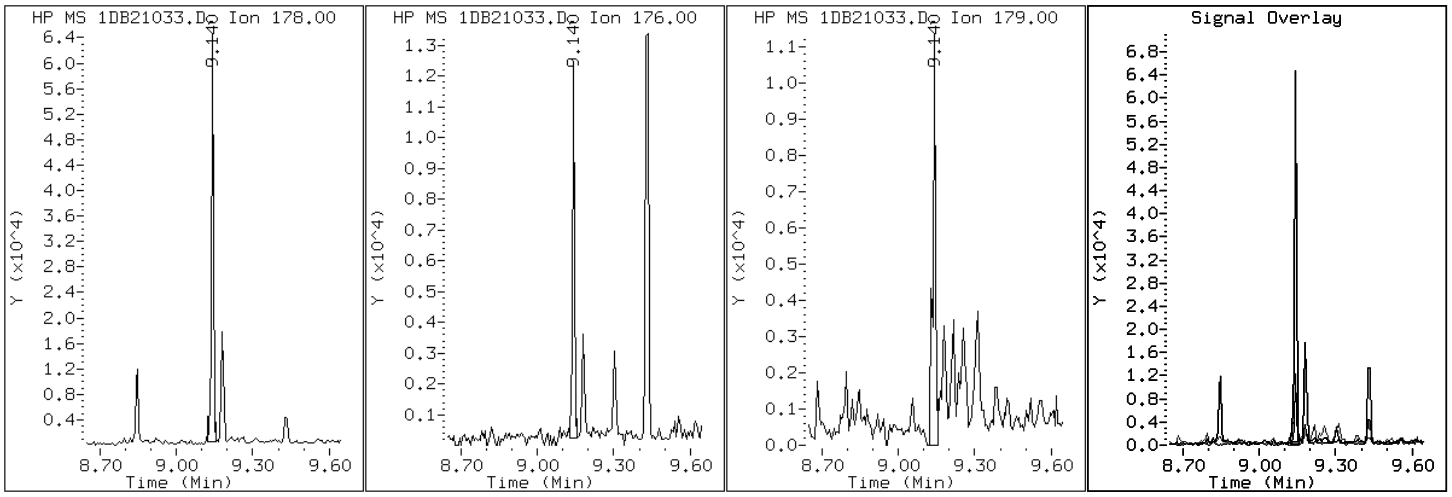
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

10 Phenanthrene



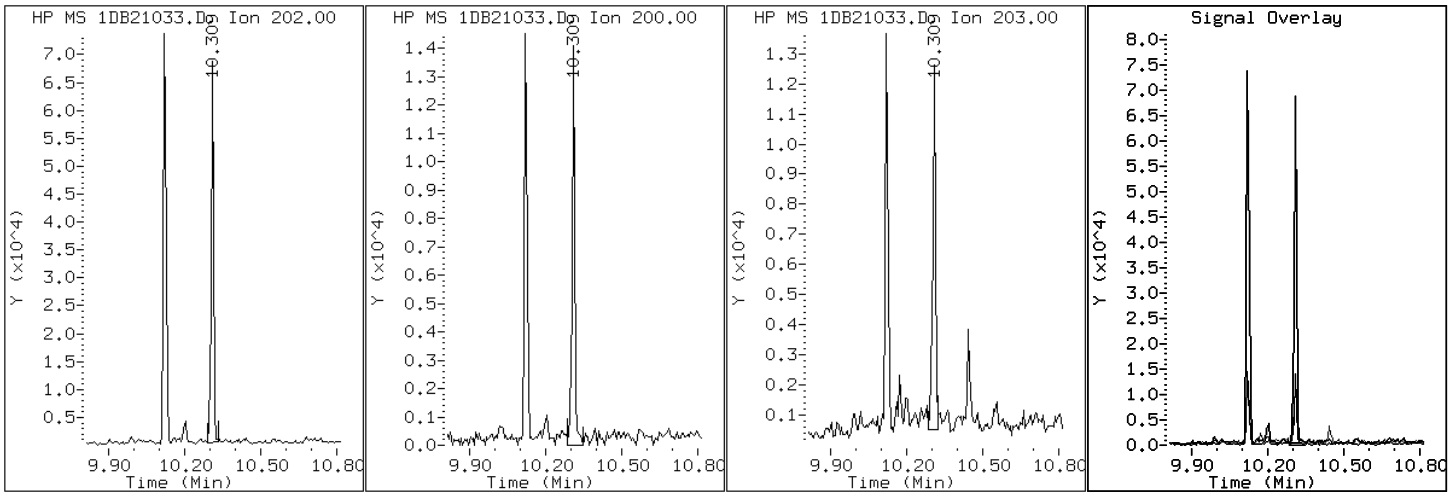
Data File: 1DB21033.D

Date: 21-FEB-2013 23:14

Client ID: FM0160C-CS Instrument: BSMSD.i

Sample Info: 680-87496-A-51-A Operator: SCC

15 Pyrene



Manual Integration Report

Data File: 1DB21033.D
Inj. Date and Time: 21-FEB-2013 23:14
Instrument ID: BSMSD.i
Client ID: FM0160C-CS
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

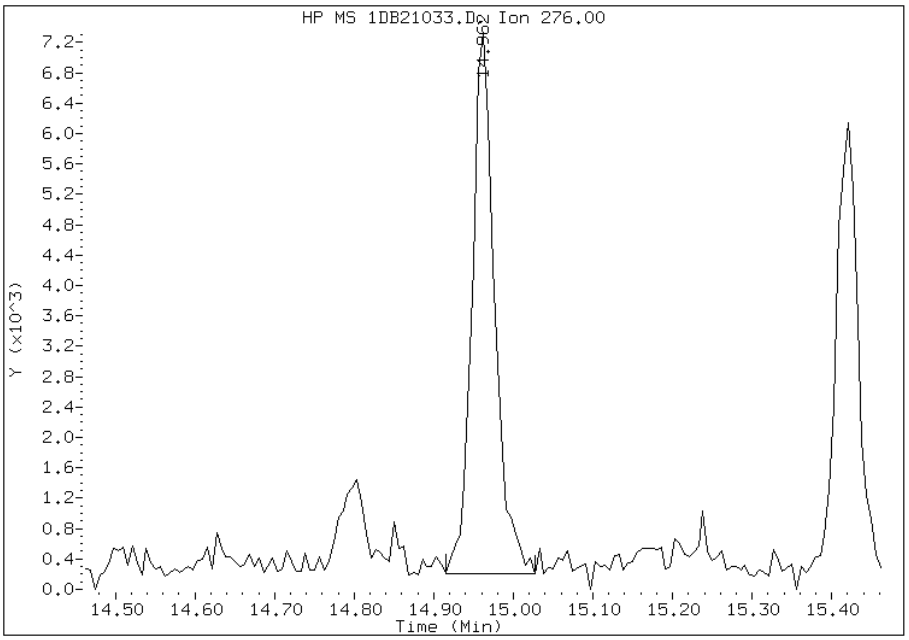
Processing Integration Results

RT: 14.96

Response: 14019

Amount: 0

Conc: 14



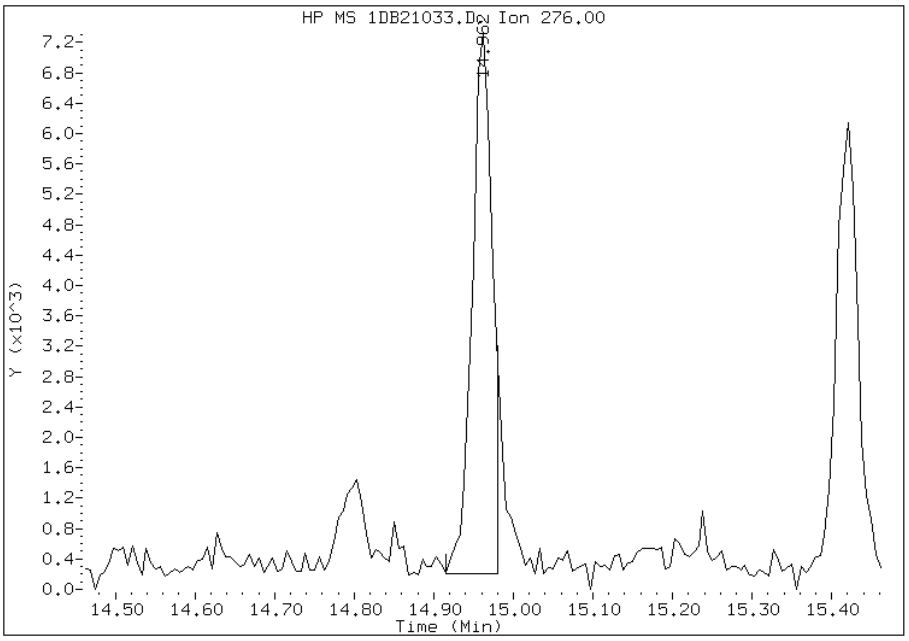
Manual Integration Results

RT: 14.96

Response: 12491

Amount: 0

Conc: 13



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 10:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: FM0160C-CSD | Lab Sample ID: 680-87496-52

Matrix: Solid | Lab File ID: 1AB22012.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 15:30

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 14.95(g) | Date Analyzed: 02/22/2013 13:23

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

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

% Moisture: 11.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	7.3	J	45	5.7
120-12-7	Anthracene	8.3	J	9.5	4.8
56-55-3	Benzo[a]anthracene	47		9.1	4.4
50-32-8	Benzo[a]pyrene	38		12	5.9
205-99-2	Benzo[b]fluoranthene	50		14	6.9
191-24-2	Benzo[g,h,i]perylene	42		23	5.0
207-08-9	Benzo[k]fluoranthene	25		9.1	4.1
218-01-9	Chrysene	57		10	5.1
53-70-3	Dibenz(a,h)anthracene	15	J	23	4.6
206-44-0	Fluoranthene	62		23	4.5
86-73-7	Fluorene	23	U	23	4.6
193-39-5	Indeno[1,2,3-cd]pyrene	43		23	8.0
90-12-0	1-Methylnaphthalene	24	J	45	5.0
91-57-6	2-Methylnaphthalene	32	J	45	8.0
91-20-3	Naphthalene	46		45	5.0
85-01-8	Phenanthrene	49		9.1	4.4
129-00-0	Pyrene	80		23	4.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22012.D
Lab Smp Id: 680-87496-A-52-A Client Smp ID: FM0160C-CSD
Inj Date : 22-FEB-2013 13:23
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-52-a
Misc Info : 680-87496-A-52-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 12
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	14.950	Weight Extracted
M	11.338	% 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	2.394	2.397	(1.000)	1059345	40.0000	
* 6 Acenaphthene-d10	164	3.419	3.417	(1.000)	787950	40.0000	
* 10 Phenanthrene-d10	188	4.354	4.352	(1.000)	1111503	40.0000	
$ 14 o-Terphenyl	230	4.632	4.635	(1.064)	137838	8.52244	642.9640
* 18 Chrysene-d12	240	6.368	6.366	(1.000)	622730	40.0000	
* 23 Perylene-d12	264	7.463	7.456	(1.000)	623892	40.0000	
2 Naphthalene	128	2.404	2.402	(1.004)	15467	0.60593	45.7132(Q)
3 2-Methylnaphthalene	141	2.805	2.808	(1.172)	5554	0.42147	31.7974
4 1-Methylnaphthalene	142	2.858	2.861	(1.194)	4603	0.31368	23.6652
5 Acenaphthylene	152	3.334	3.332	(0.975)	2848	0.09680	7.3030
11 Phenanthrene	178	4.365	4.368	(1.002)	17773	0.64329	48.5322
12 Anthracene	178	4.397	4.400	(1.010)	2952	0.11000	8.2987
13 Carbazole	167	4.557	4.555	(1.047)	3403	0.14365	10.8371
15 Fluoranthene	202	5.225	5.228	(1.200)	22520	0.81522	61.5034

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.390	5.394	(0.846)	19263	1.05461	79.5635
17 Benzo(a)anthracene	228	6.363	6.355	(0.999)	11561	0.62175	46.9072
19 Chrysene	228	6.379	6.387	(1.002)	12529	0.75341	56.8396
20 Benzo(b)fluoranthene	252	7.180	7.178	(0.962)	10388	0.65682	49.5528(M)
21 Benzo(k)fluoranthene	252	7.185	7.199	(0.963)	5329	0.33492	25.2672(QM)
22 Benzo(a)pyrene	252	7.404	7.408	(0.992)	7208	0.49766	37.5453
24 Indeno(1,2,3-cd)pyrene	276	8.179	8.177	(1.096)	7050	0.56737	42.8043(M)
25 Dibenzo(a,h)anthracene	278	8.200	8.193	(1.099)	2563	0.19794	14.9329
26 Benzo(g,h,i)perylene	276	8.387	8.385	(1.124)	7375	0.55803	42.0995

QC Flag Legend

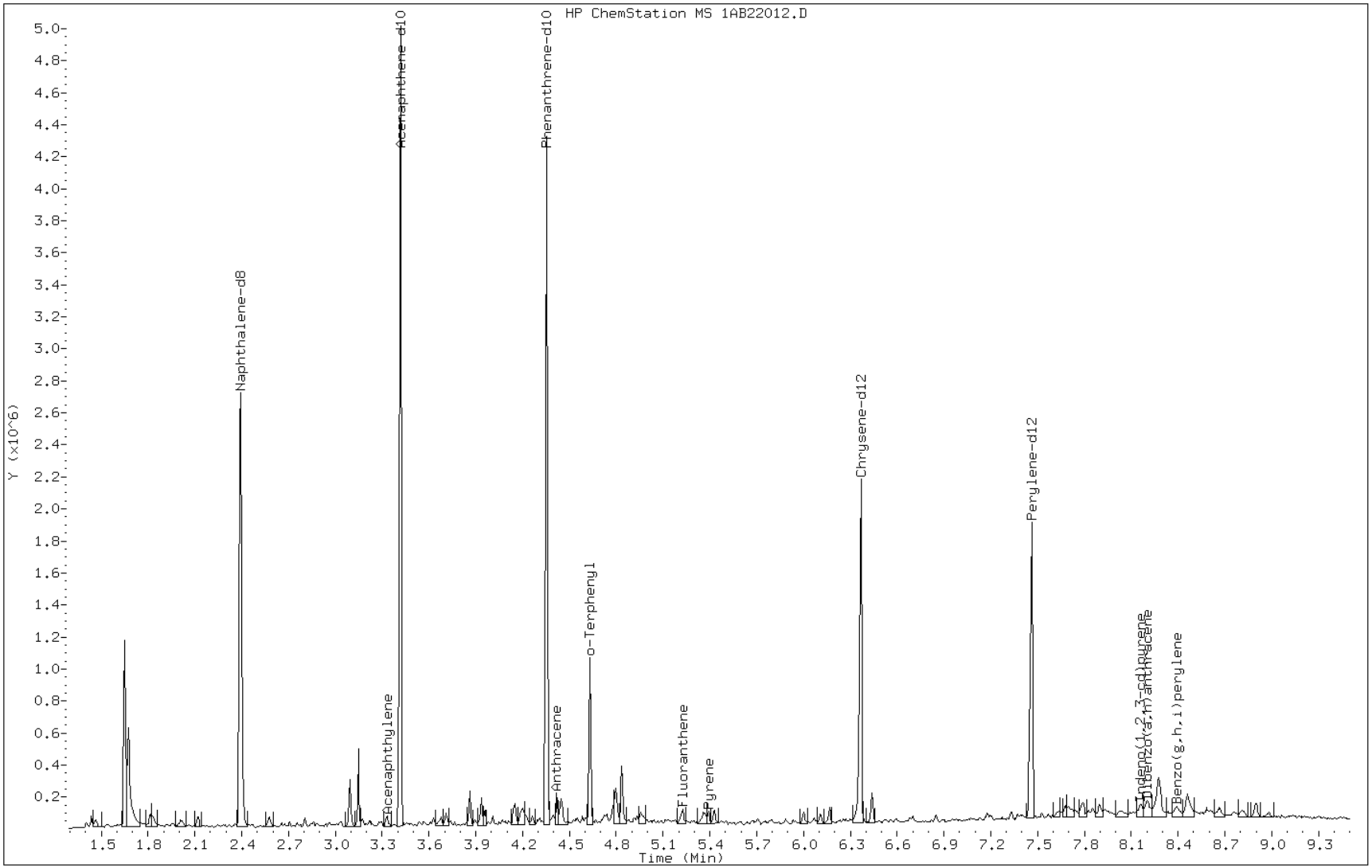
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC



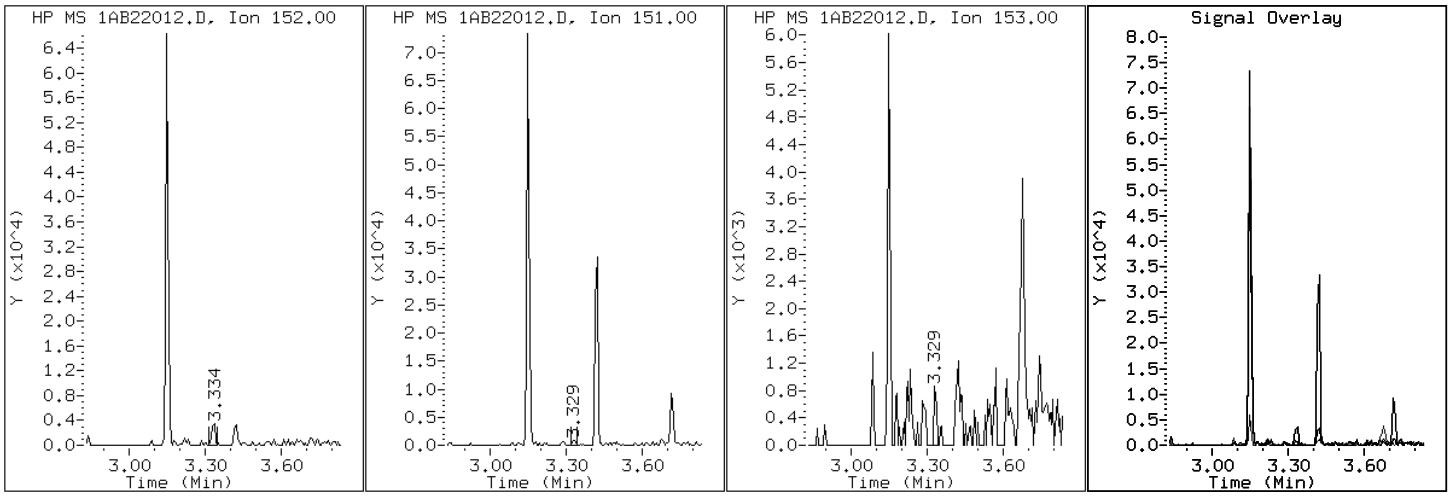
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

5 Acenaphthylene



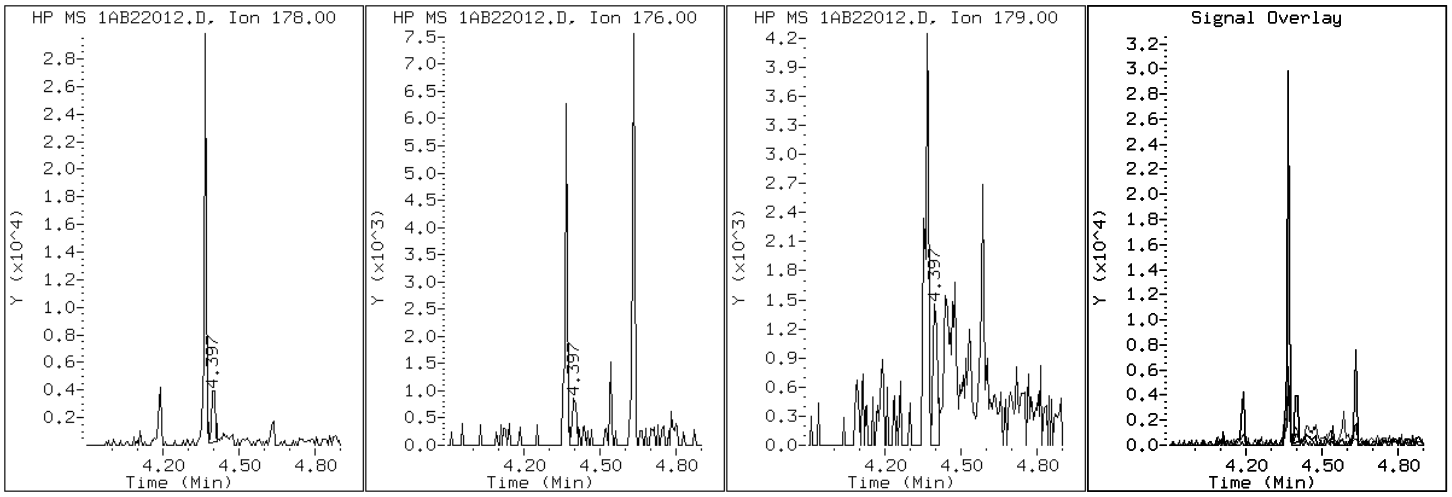
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

12 Anthracene



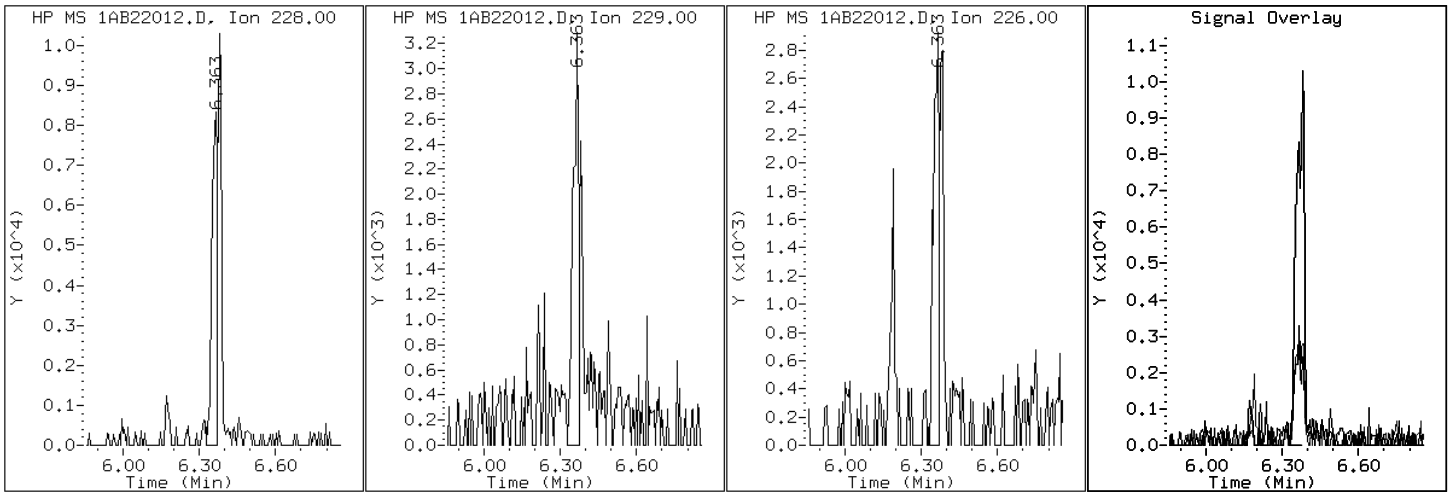
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

17 Benzo(a)anthracene



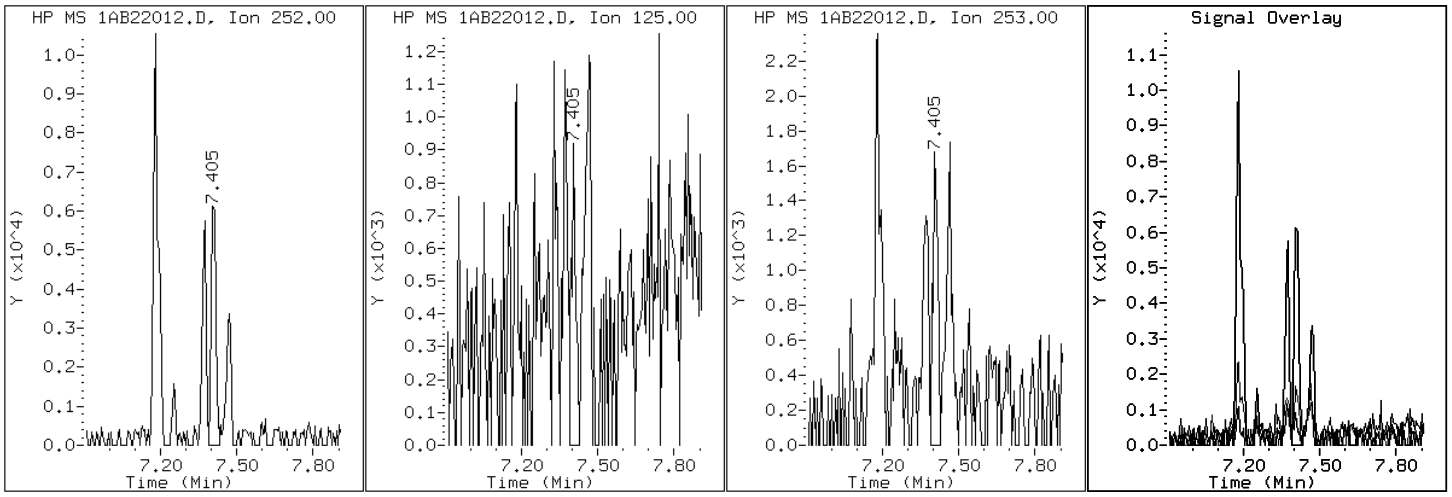
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

22 Benzo(a)pyrene



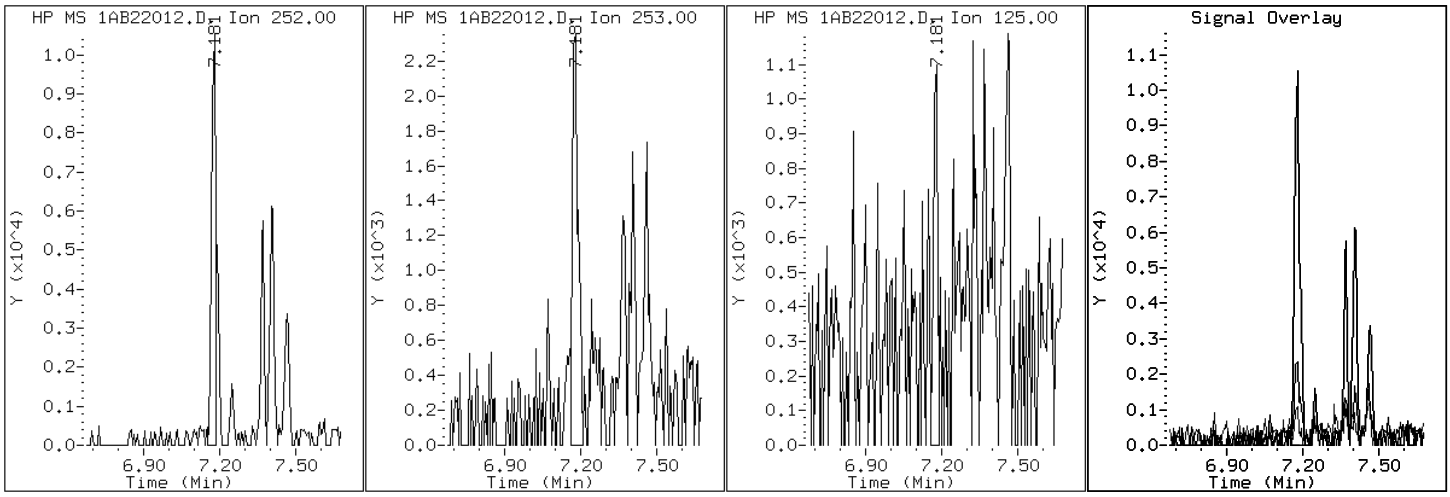
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

20 Benzo(b)fluoranthene



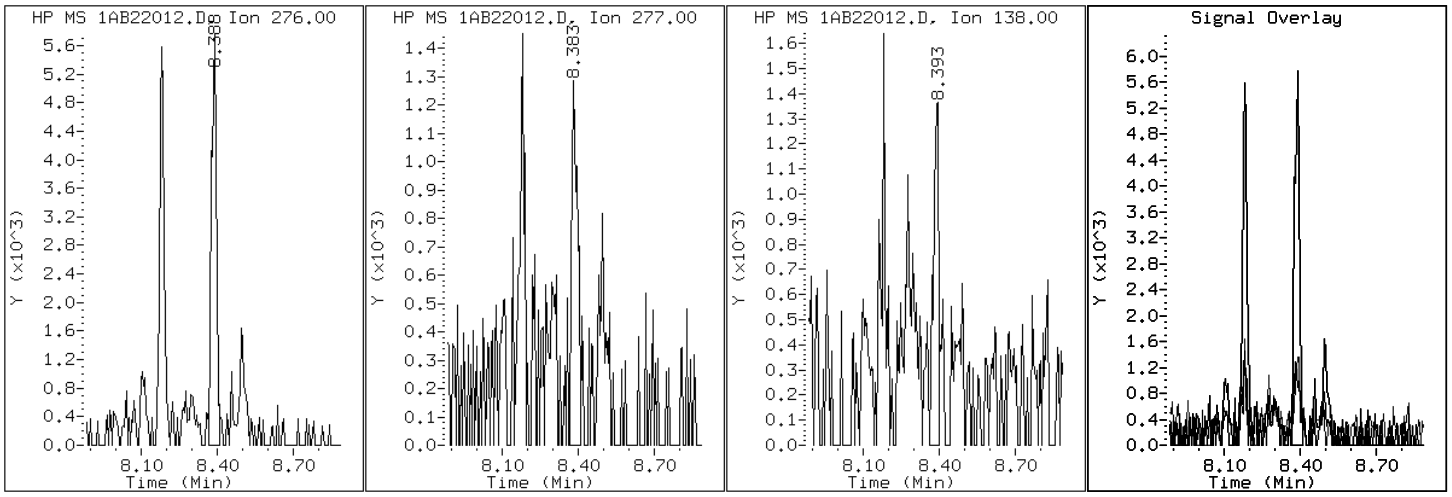
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

26 Benzo(g,h,i)perylene



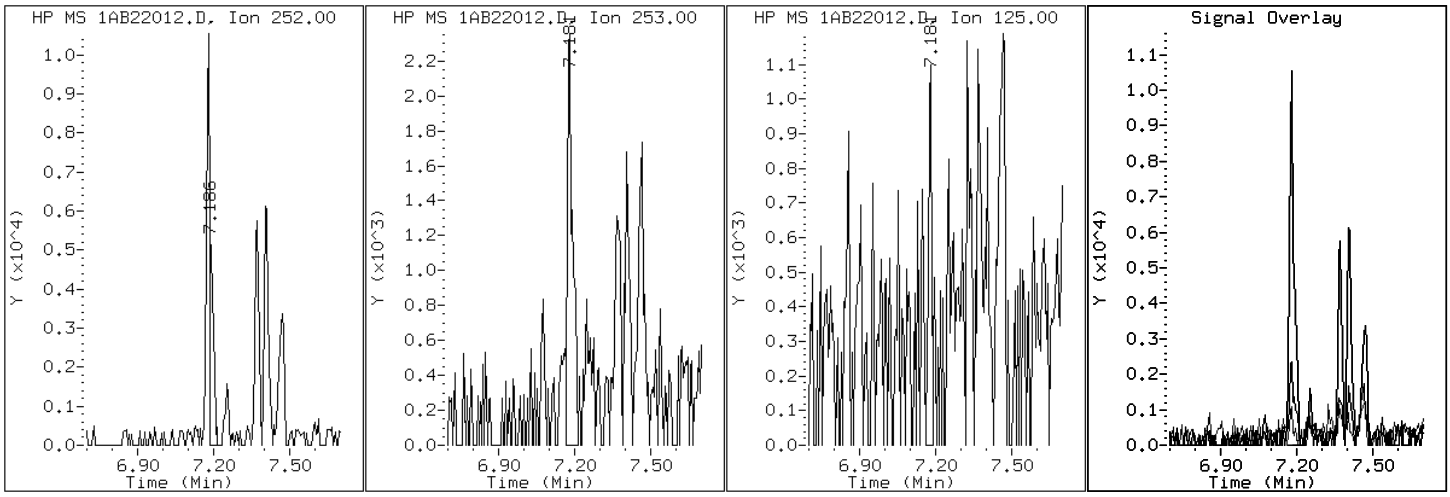
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

21 Benzo(k)fluoranthene



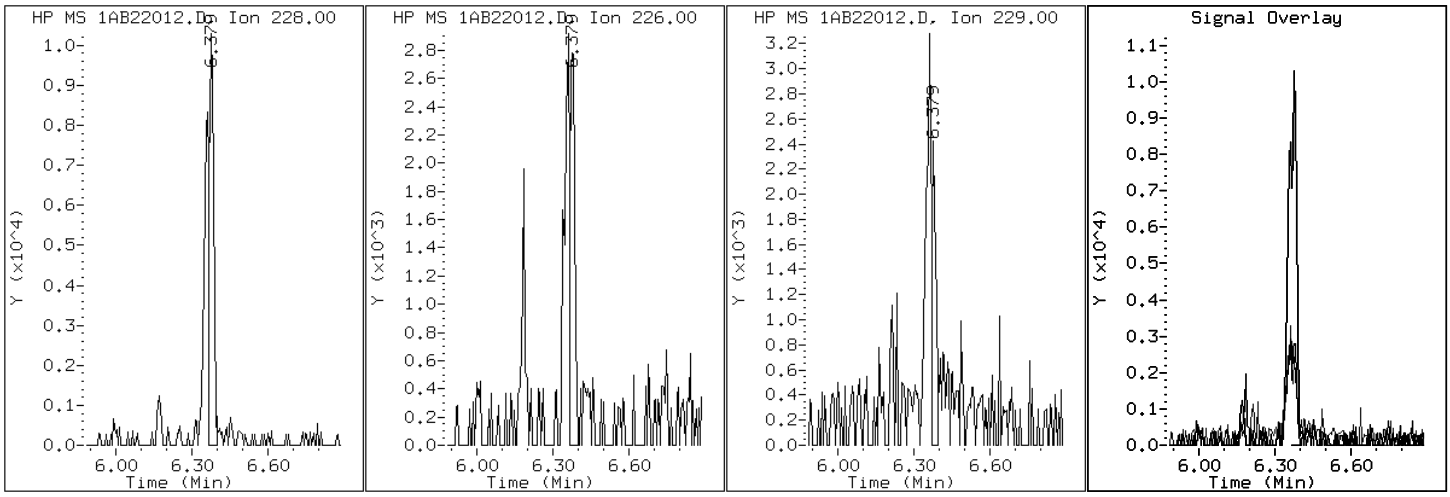
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

19 Chrysene



Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

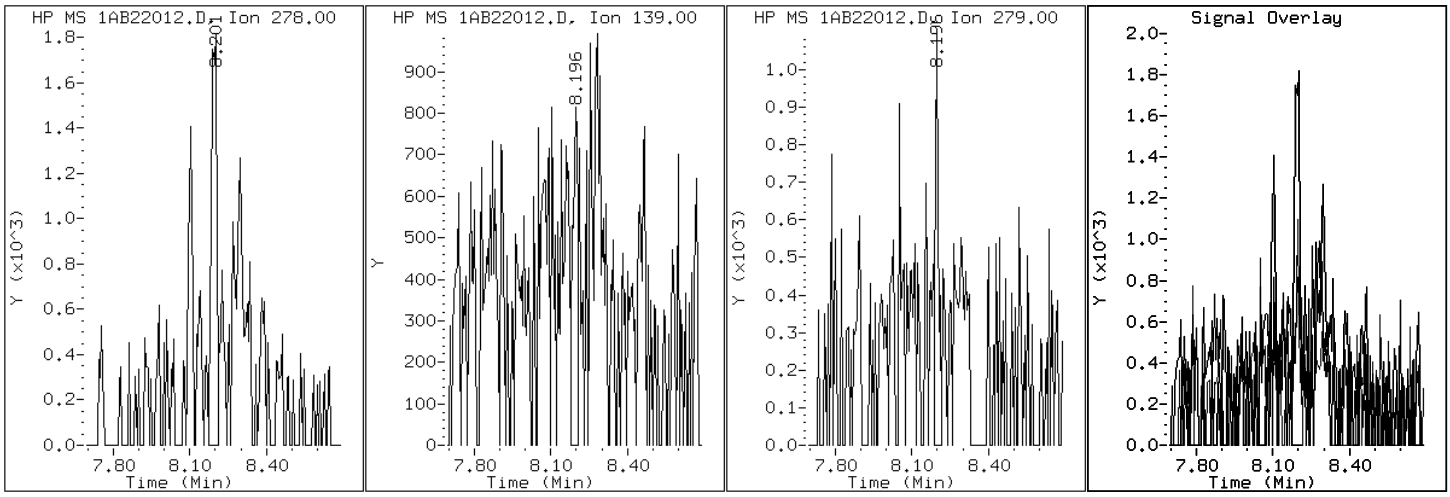
Client ID: FM0160C-CSD

Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a

Operator: SCC

25 Dibenzo(a,h)anthracene



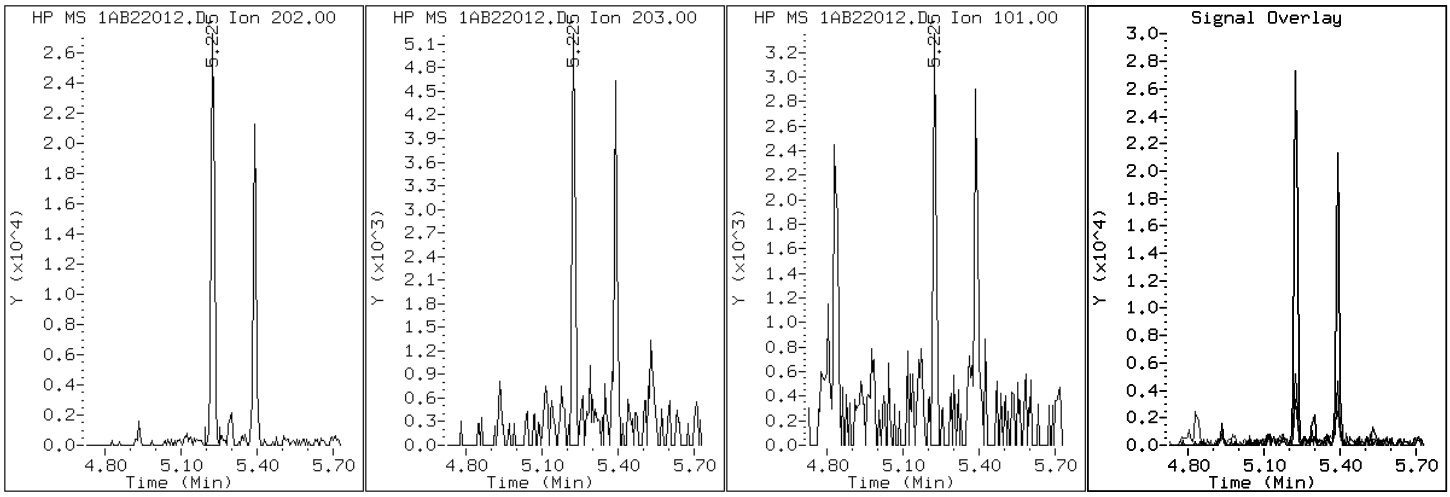
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

15 Fluoranthene



Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

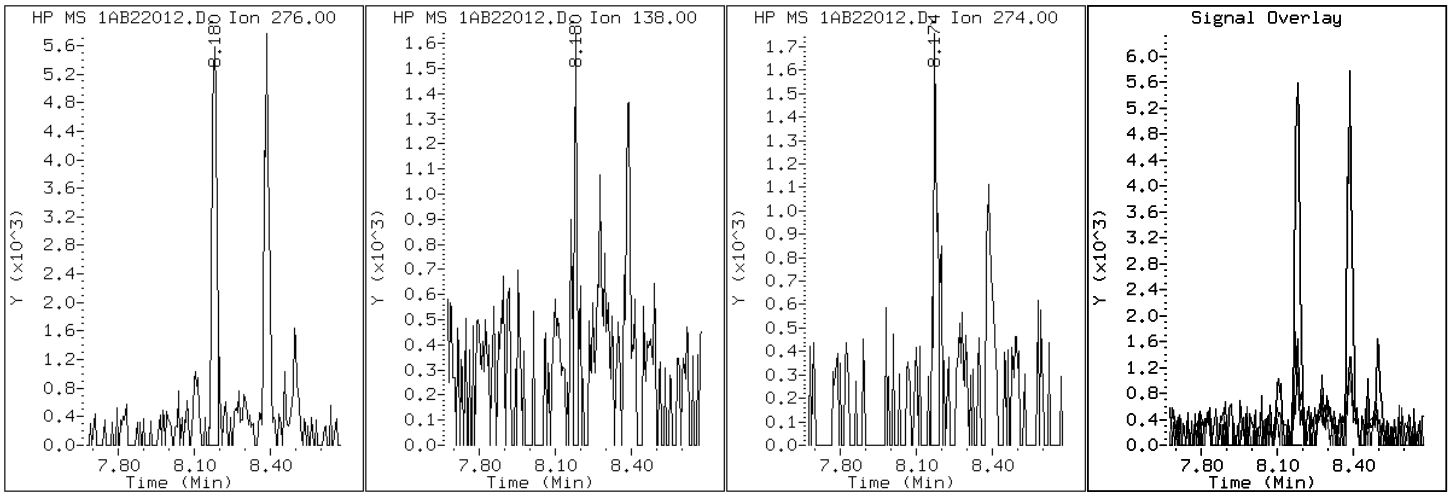
Client ID: FM0160C-CSD

Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a

Operator: SCC

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



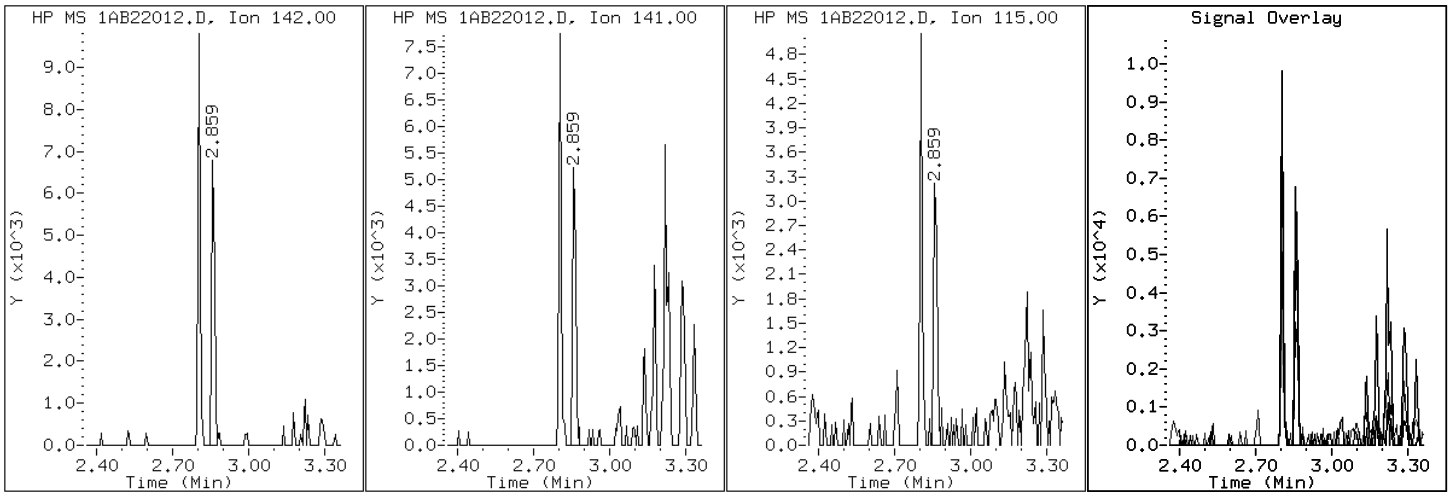
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

4 1-Methylnaphthalene



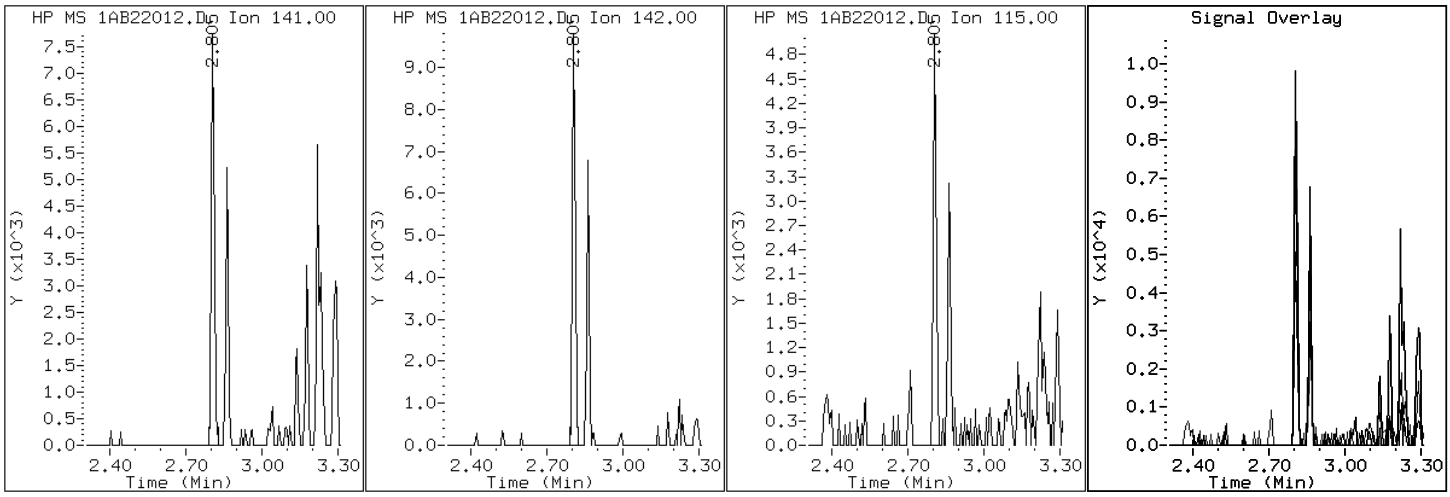
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

3 2-Methylnaphthalene



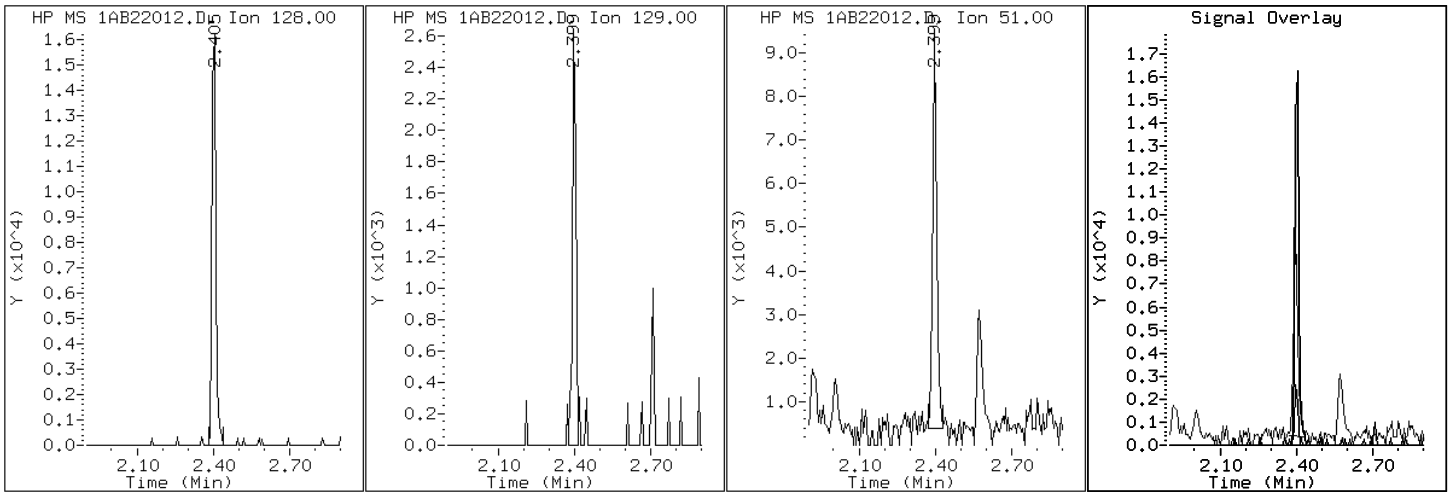
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

2 Naphthalene



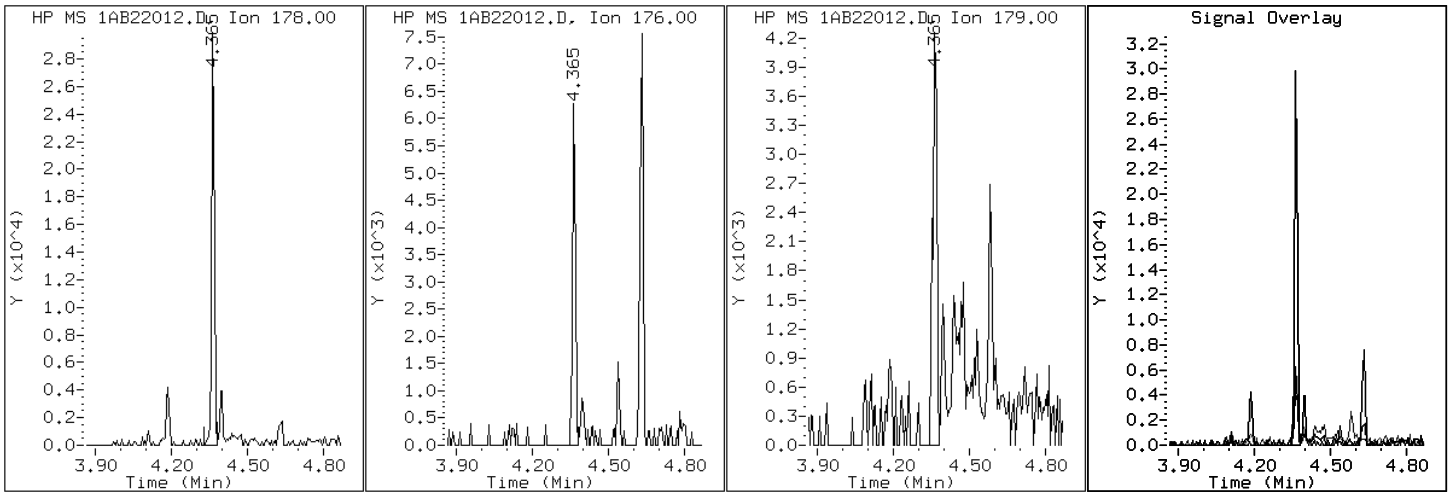
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

11 Phenanthrene



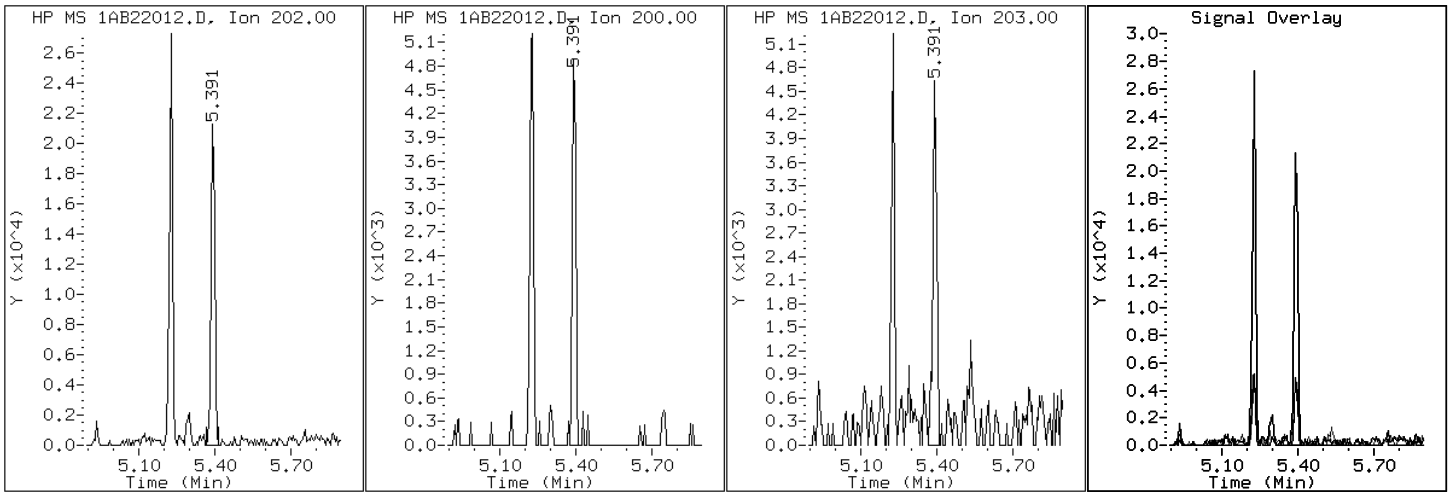
Data File: 1AB22012.D

Date: 22-FEB-2013 13:23

Client ID: FM0160C-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-52-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22012.D
Inj. Date and Time: 22-FEB-2013 13:23
Instrument ID: BSMA5973.i
Client ID: FM0160C-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

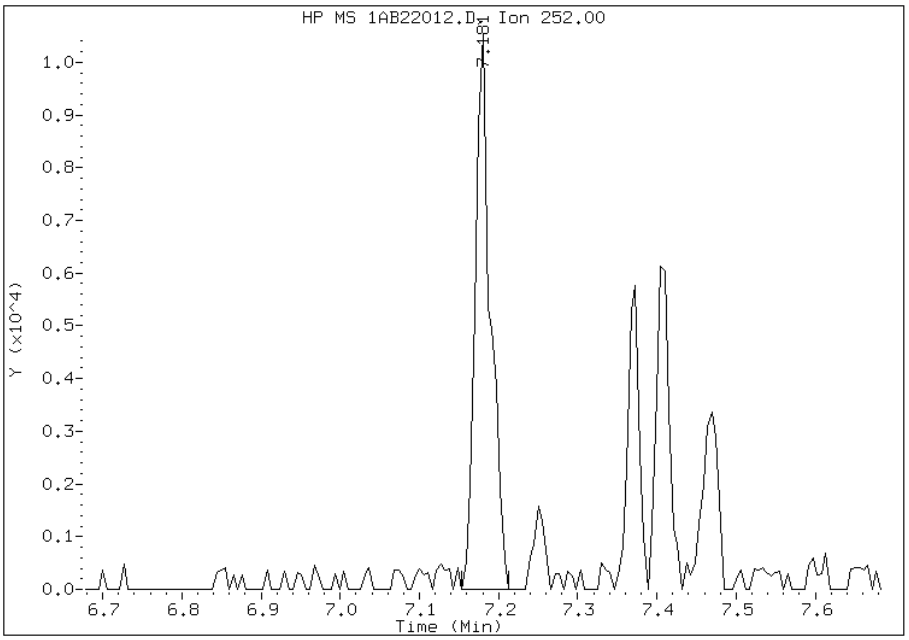
Processing Integration Results

RT: 7.18

Response: 13998

Amount: 1

Conc: 67



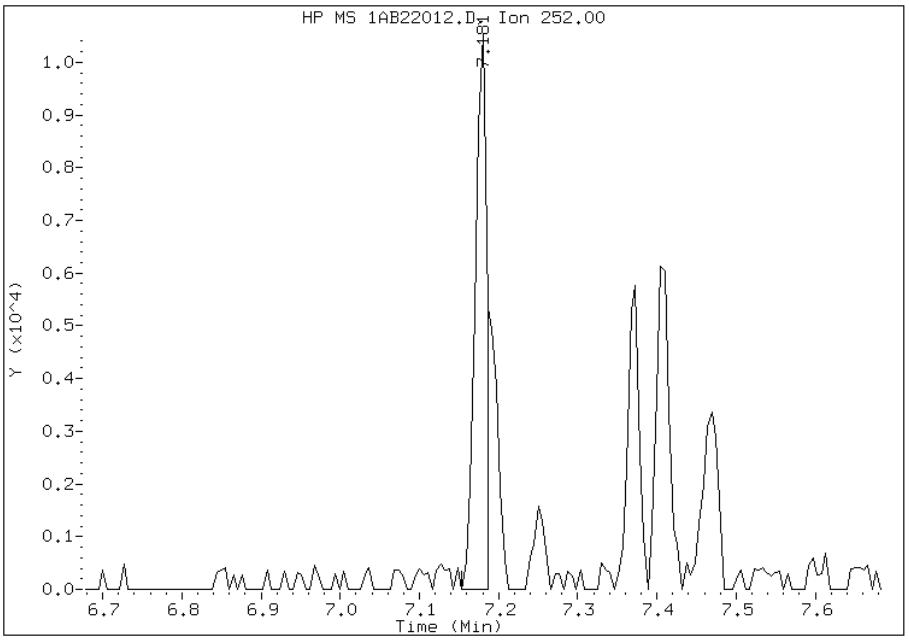
Manual Integration Results

RT: 7.18

Response: 10388

Amount: 1

Conc: 50



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:15
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22012.D
Inj. Date and Time: 22-FEB-2013 13:23
Instrument ID: BSMA5973.i
Client ID: FM0160C-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

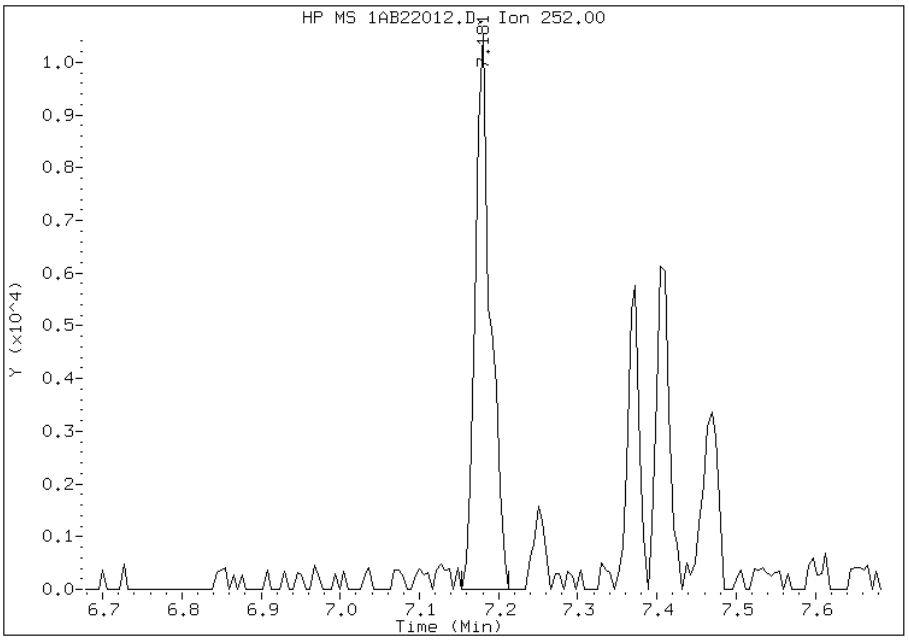
Processing Integration Results

RT: 7.18

Response: 13998

Amount: 1

Conc: 66



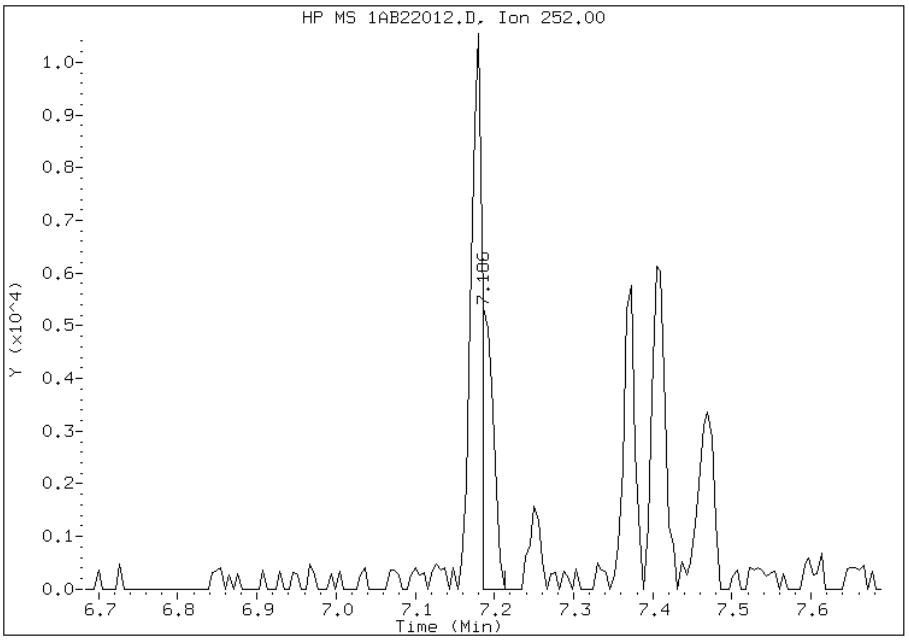
Manual Integration Results

RT: 7.19

Response: 5329

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:15
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22012.D
Inj. Date and Time: 22-FEB-2013 13:23
Instrument ID: BSMA5973.i
Client ID: FM0160C-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

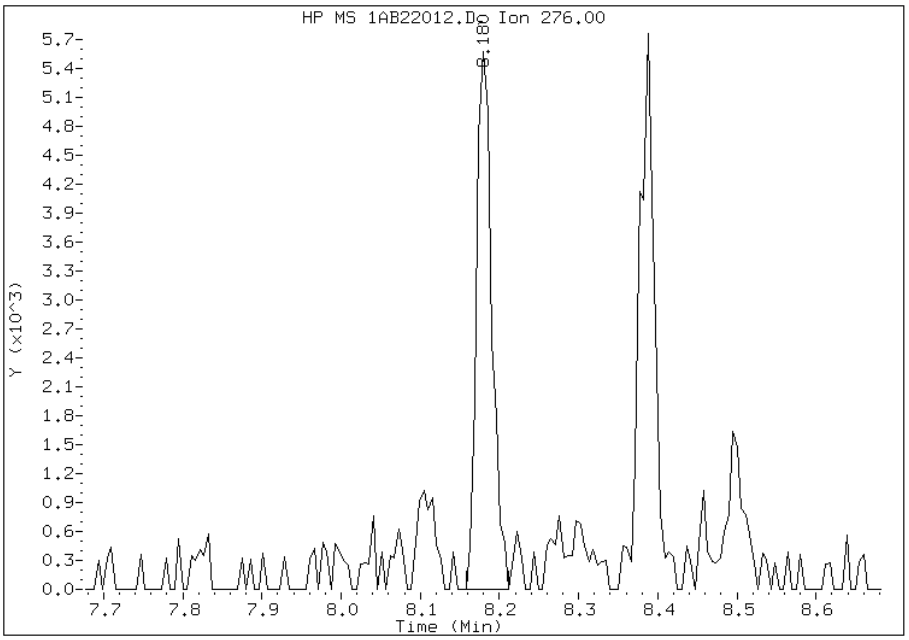
Processing Integration Results

RT: 8.18

Response: 7422

Amount: 1

Conc: 45



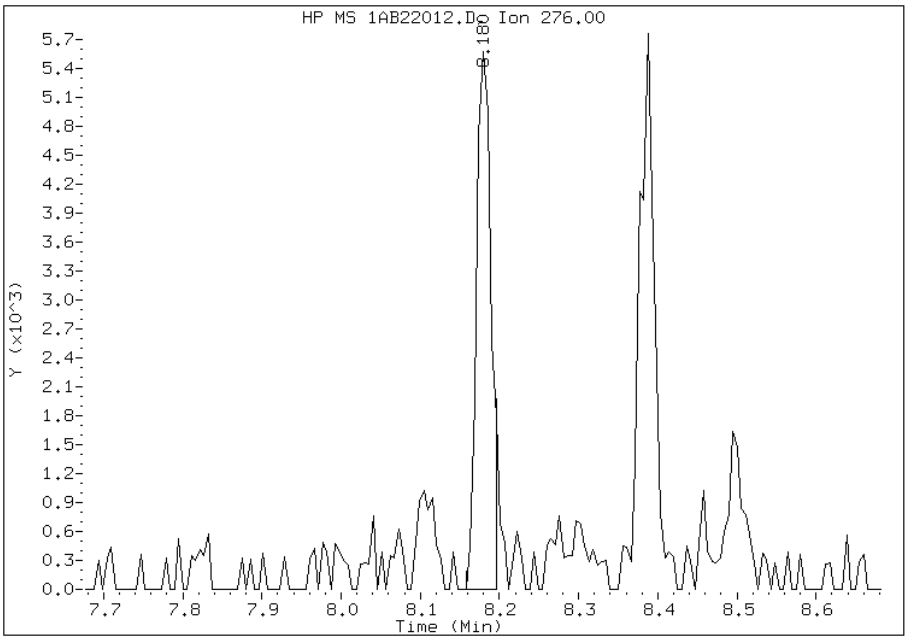
Manual Integration Results

RT: 8.18

Response: 7050

Amount: 1

Conc: 43



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:16
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: FM0160D-CS | Lab Sample ID: 680-87496-53

Matrix: Solid | Lab File ID: 1AB22013.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 15:35

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.38(g) | Date Analyzed: 02/22/2013 13:38

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

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

% Moisture: 14.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	23
208-96-8	Acenaphthylene	45	U	45	5.7
120-12-7	Anthracene	7.3	J	9.5	4.8
56-55-3	Benzo[a]anthracene	33		9.1	4.4
50-32-8	Benzo[a]pyrene	18		12	5.9
205-99-2	Benzo[b]fluoranthene	32		14	6.9
191-24-2	Benzo[g,h,i]perylene	23		23	5.0
207-08-9	Benzo[k]fluoranthene	13		9.1	4.1
218-01-9	Chrysene	31		10	5.1
53-70-3	Dibenz(a,h)anthracene	8.6	J	23	4.7
206-44-0	Fluoranthene	41		23	4.5
86-73-7	Fluorene	23	U	23	4.7
193-39-5	Indeno[1,2,3-cd]pyrene	22	J	23	8.1
90-12-0	1-Methylnaphthalene	16	J	45	5.0
91-57-6	2-Methylnaphthalene	21	J	45	8.1
91-20-3	Naphthalene	32	J	45	5.0
85-01-8	Phenanthrene	38		9.1	4.4
129-00-0	Pyrene	48		23	4.2

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22013.D
Lab Smp Id: 680-87496-A-53-A Client Smp ID: FM0160D-CS
Inj Date : 22-FEB-2013 13:38
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-53-a
Misc Info : 680-87496-A-53-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 13
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	15.380	Weight Extracted
M	14.211	% 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	2.391	2.397	(1.000)	1098495	40.0000	
* 6 Acenaphthene-d10	164	3.417	3.417	(1.000)	750181	40.0000	
* 10 Phenanthrene-d10	188	4.357	4.352	(1.000)	1119189	40.0000	
$ 14 o-Terphenyl	230	4.635	4.635	(1.064)	127799	7.84747	594.7567
* 18 Chrysene-d12	240	6.366	6.366	(1.000)	625353	40.0000	
* 23 Perylene-d12	264	7.461	7.456	(1.000)	713536	40.0000	
2 Naphthalene	128	2.402	2.402	(1.004)	11307	0.42717	32.3749(Q)
3 2-Methylnaphthalene	141	2.803	2.808	(1.172)	3816	0.27926	21.1651
4 1-Methylnaphthalene	142	2.856	2.861	(1.194)	3176	0.20872	15.8189
11 Phenanthrene	178	4.368	4.368	(1.002)	13837	0.49739	37.6969
12 Anthracene	178	4.400	4.400	(1.010)	2612	0.09666	7.3259
13 Carbazole	167	4.555	4.555	(1.045)	1892	0.07932	6.0112
15 Fluoranthene	202	5.228	5.228	(1.200)	14935	0.53693	40.6940
16 Pyrene	202	5.393	5.394	(0.847)	11709	0.63835	48.3806

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
17 Benzo(a)anthracene	228	6.366	6.355	(1.000)	8096	0.43358	32.8606
19 Chrysene	228	6.382	6.387	(1.003)	6900	0.41318	31.3145
20 Benzo(b)fluoranthene	252	7.178	7.178	(0.962)	7732	0.42746	32.3972(M)
21 Benzo(k)fluoranthene	252	7.194	7.199	(0.964)	3118	0.17134	12.9857(QM)
22 Benzo(a)pyrene	252	7.407	7.408	(0.993)	3996	0.24123	18.2830
24 Indeno(1,2,3-cd)pyrene	276	8.177	8.177	(1.096)	4113	0.28942	21.9350(M)
25 Dibenzo(a,h)anthracene	278	8.187	8.193	(1.097)	1675	0.11311	8.5721(M)
26 Benzo(g,h,i)perylene	276	8.385	8.385	(1.124)	4641	0.30704	23.2706

QC Flag Legend

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

Data File: 1AB22013.D

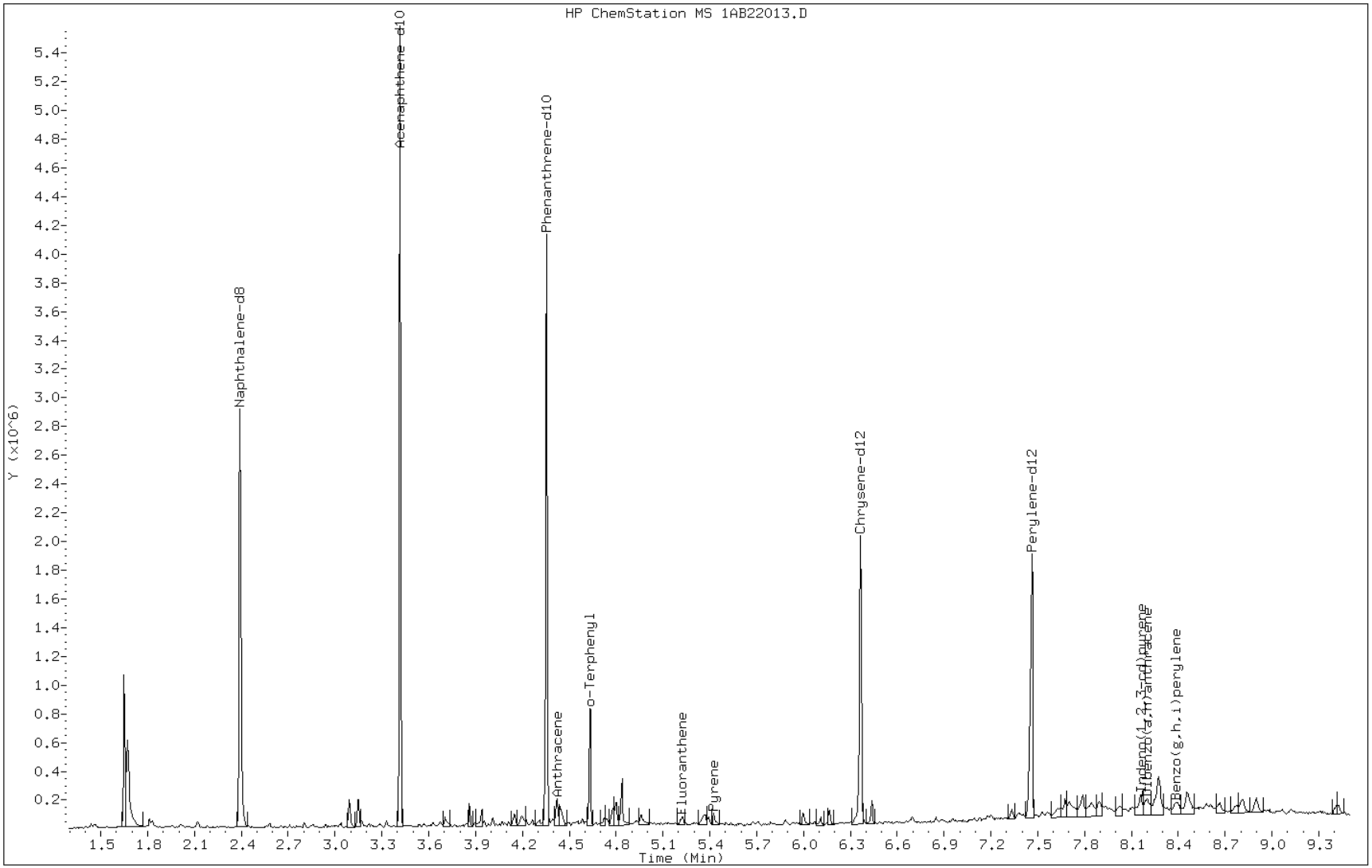
Date: 22-FEB-2013 13:38

Client ID: FM0160D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a

Operator: SCC



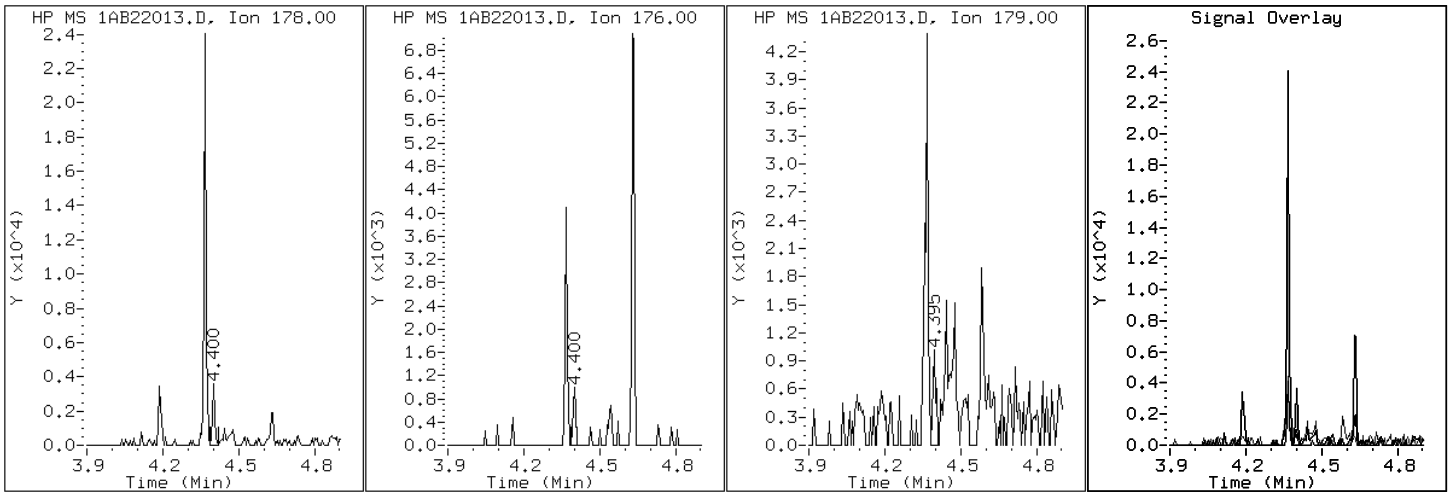
Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

Client ID: FM0160D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a Operator: SCC

12 Anthracene



Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

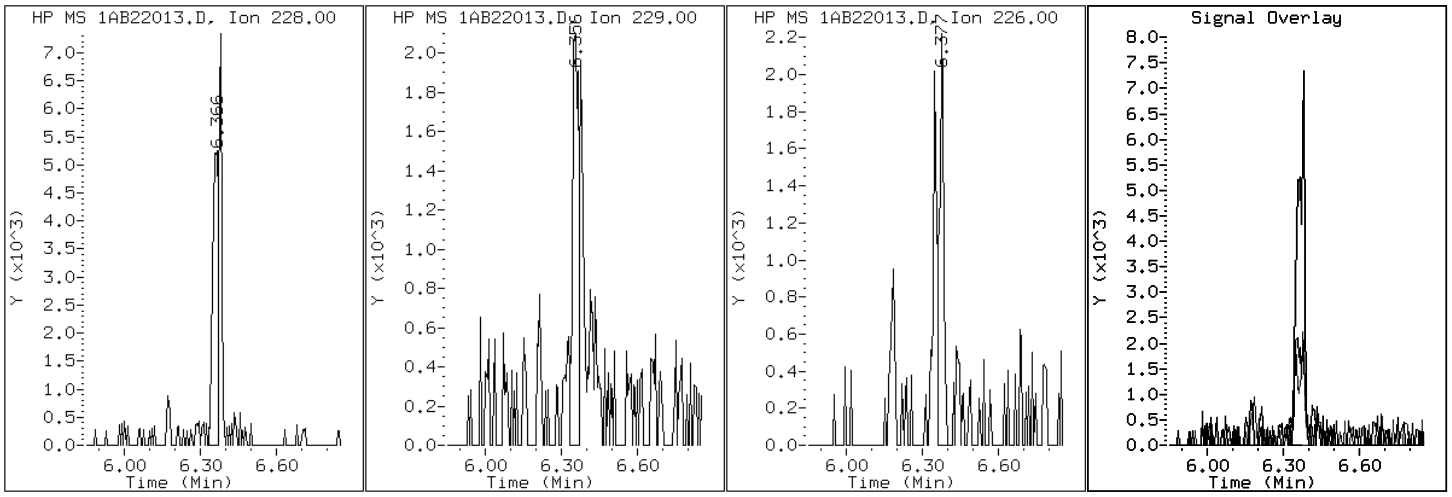
Client ID: FM0160D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

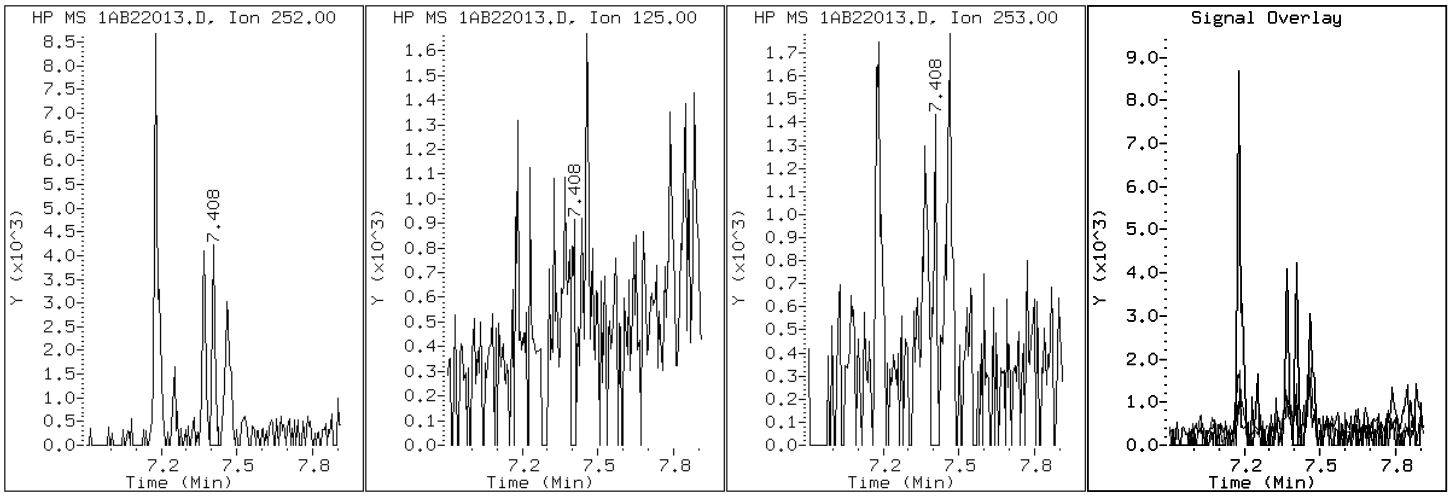
Client ID: FM0160D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

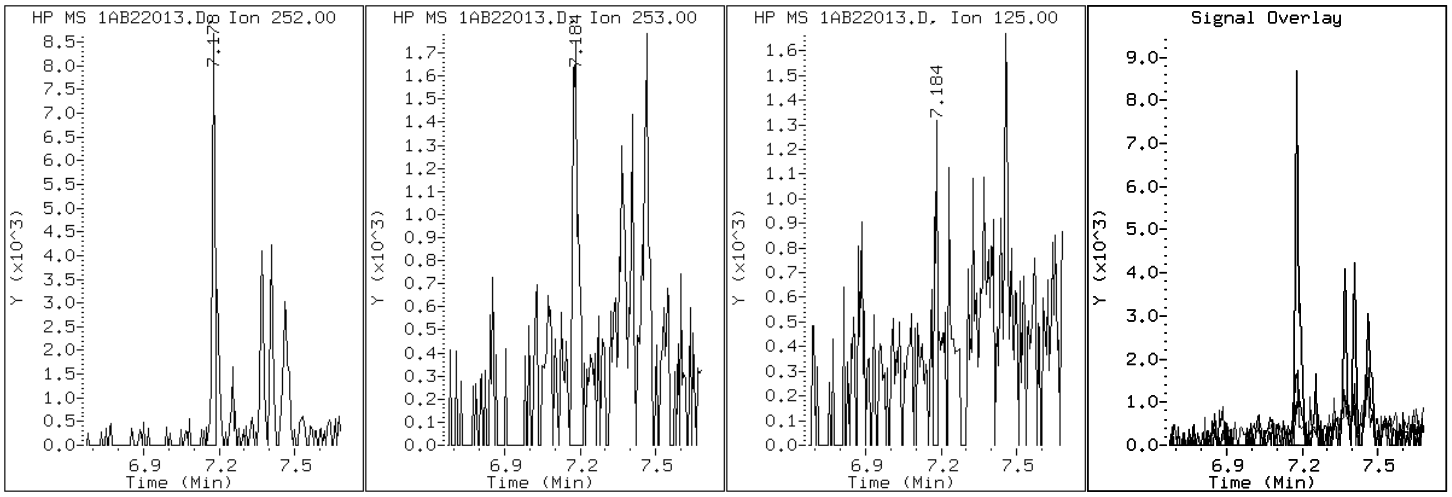
Client ID: FM0160D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

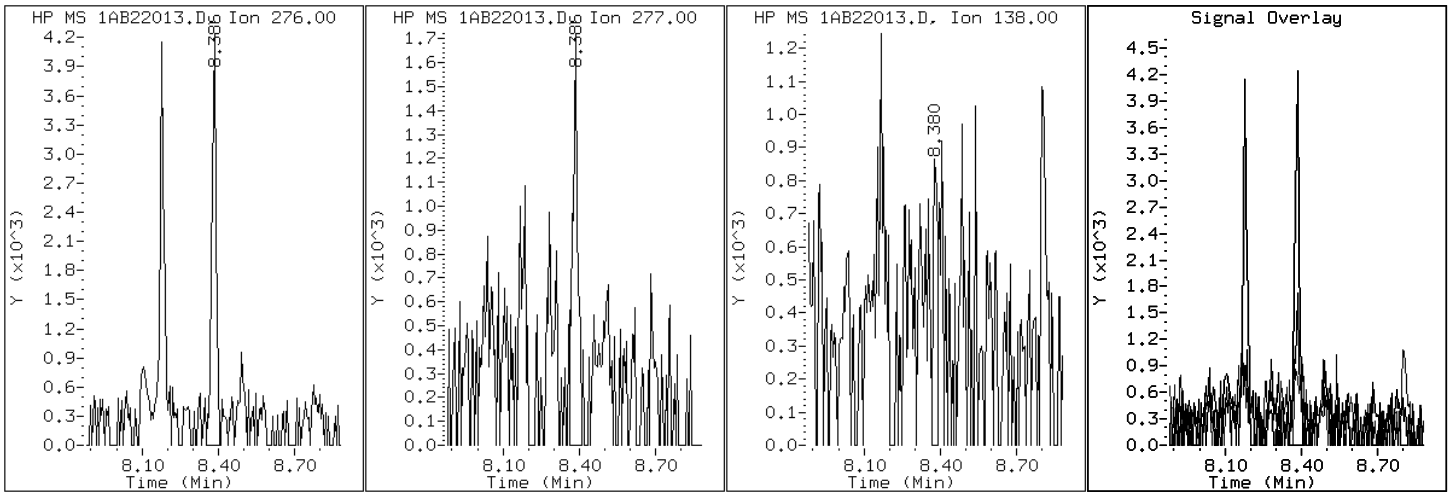
Client ID: FM0160D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a

Operator: SCC

26 Benzo(g,h,i)perylene



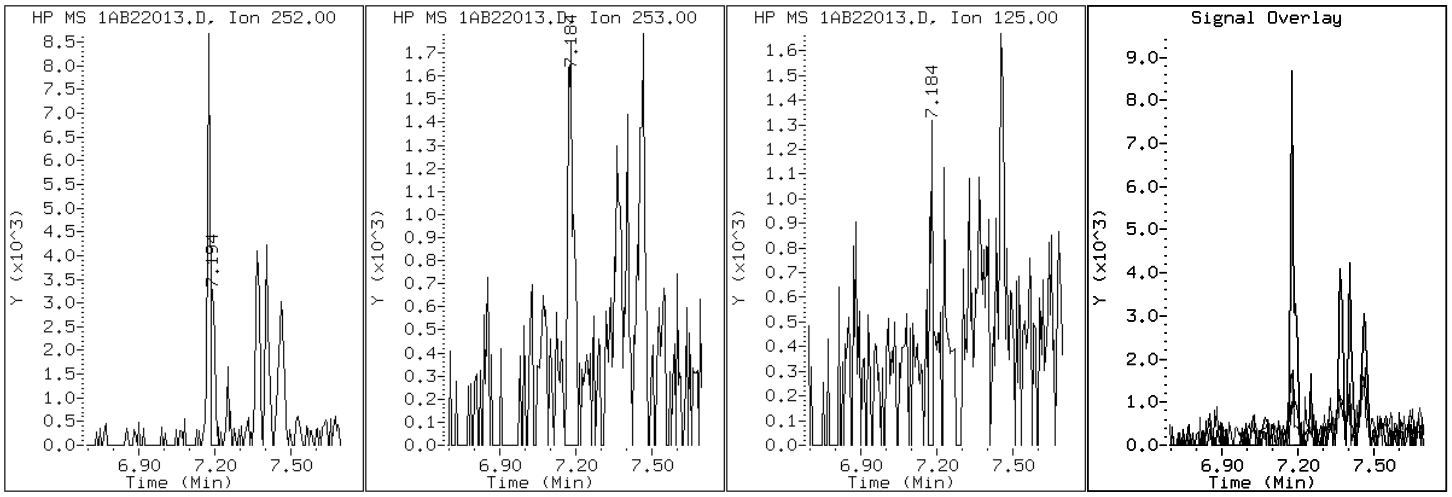
Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

Client ID: FM0160D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a Operator: SCC

21 Benzo(k)fluoranthene



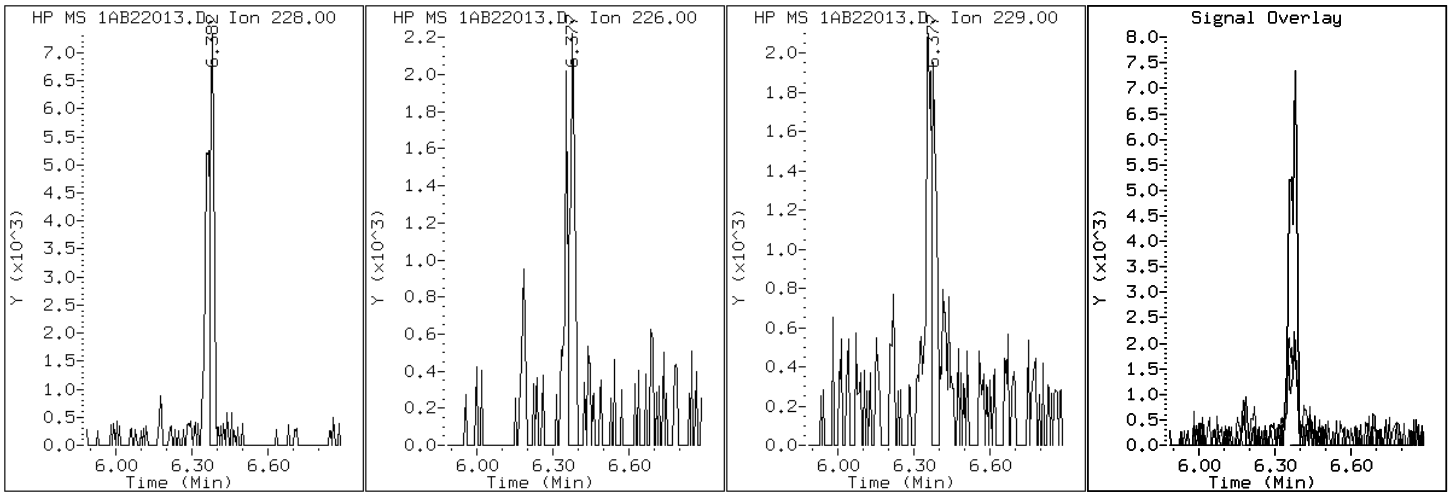
Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

Client ID: FM0160D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a Operator: SCC

19 Chrysene



Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

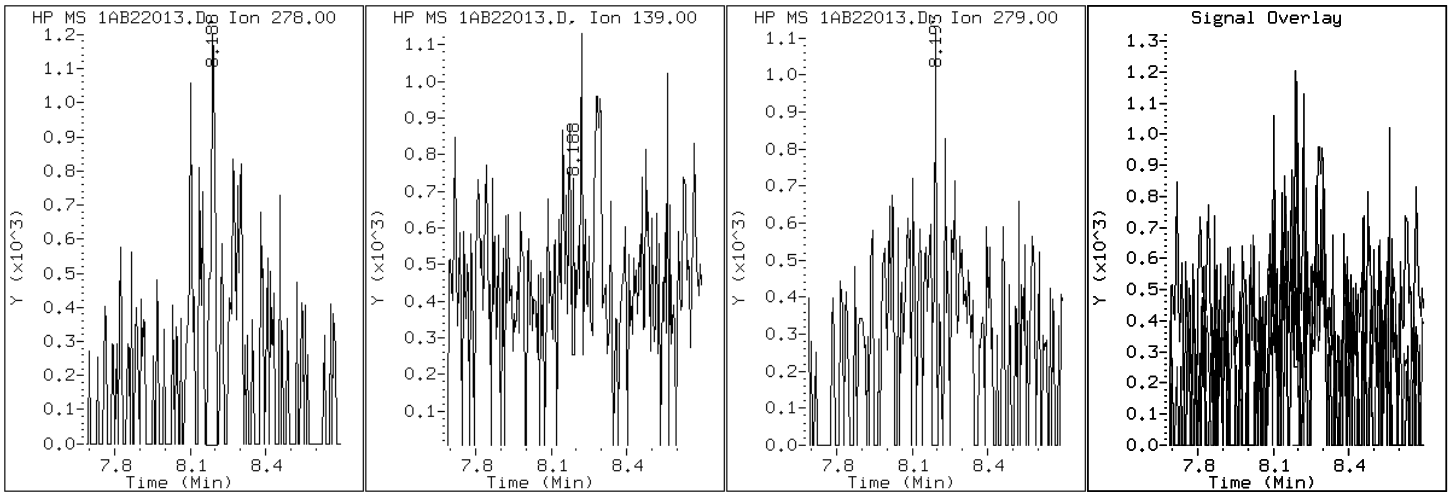
Client ID: FM0160D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

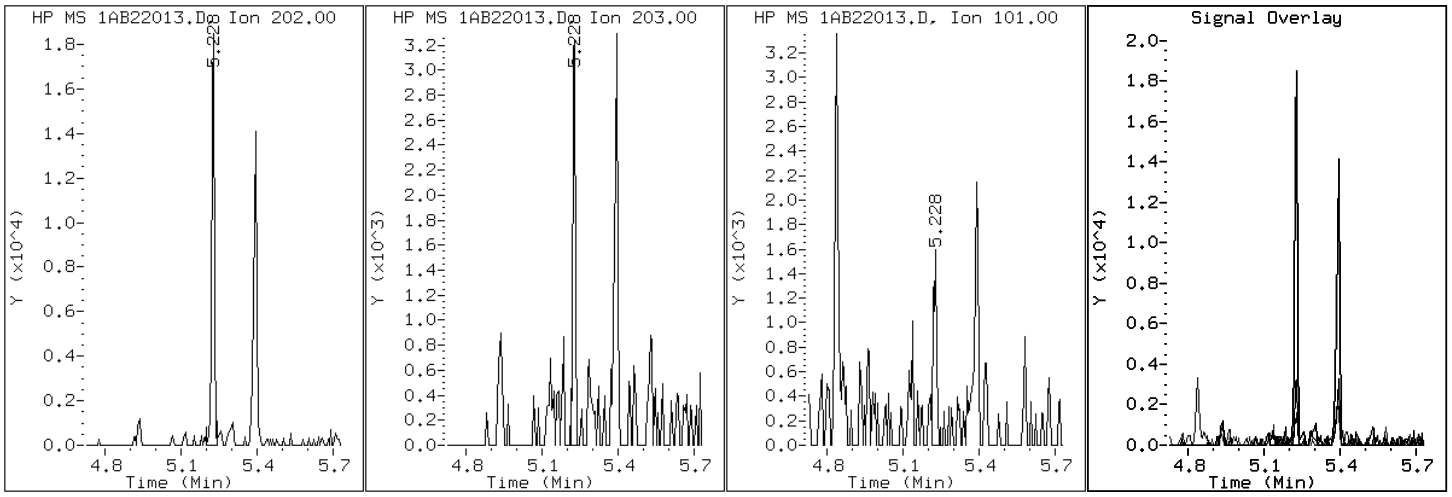
Client ID: FM0160D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a

Operator: SCC

15 Fluoranthene



Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

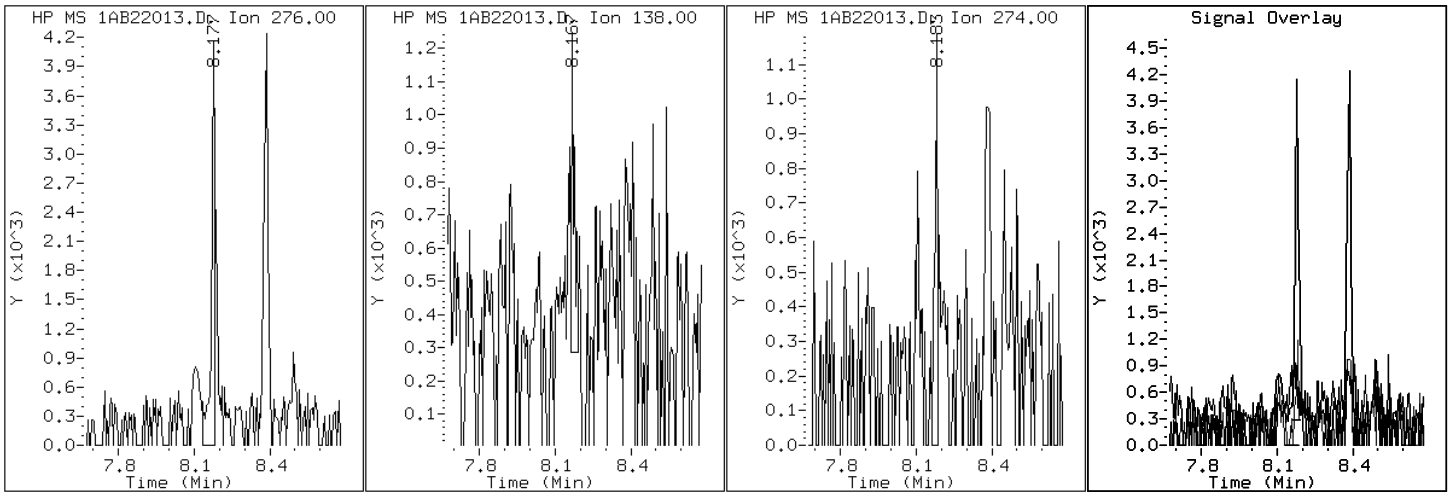
Client ID: FM0160D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a

Operator: SCC

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



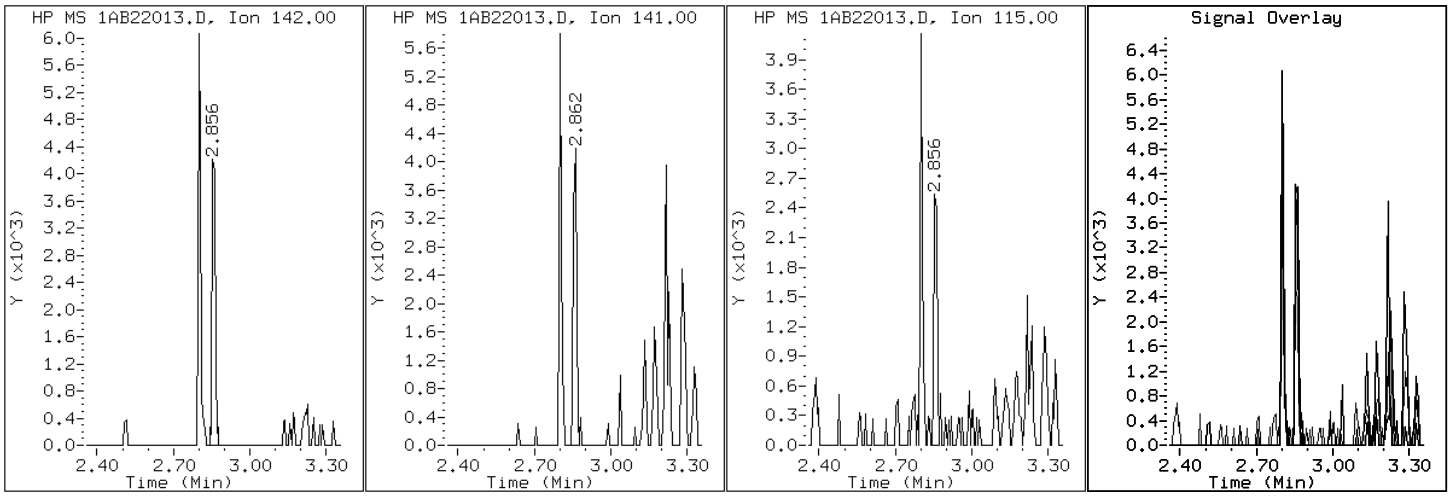
Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

Client ID: FM0160D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a Operator: SCC

4 1-Methylnaphthalene



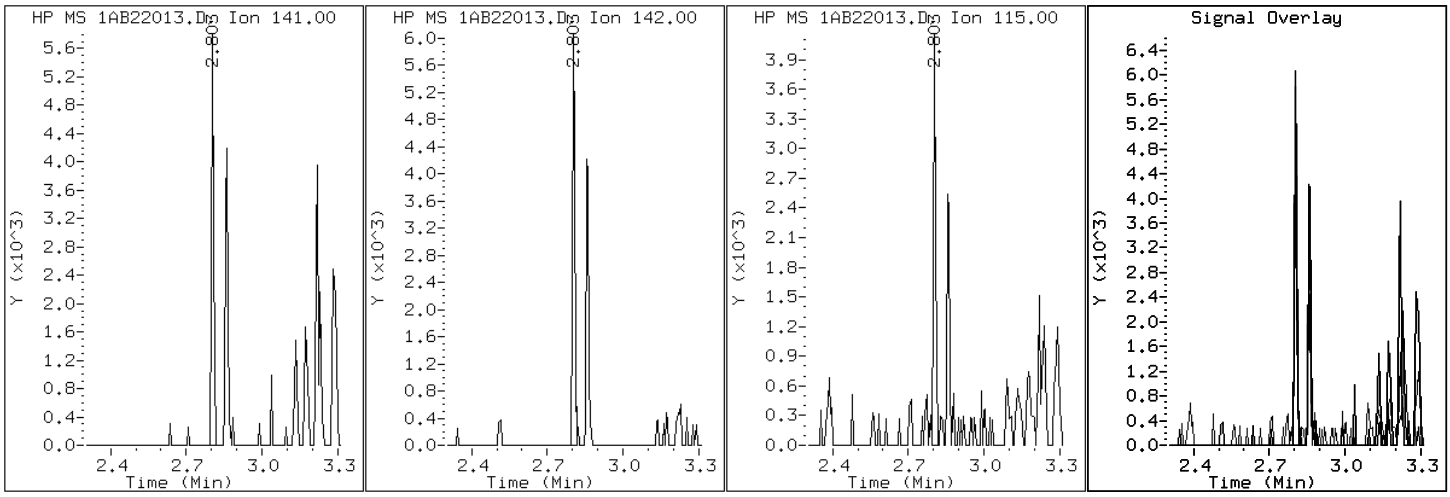
Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

Client ID: FM0160D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

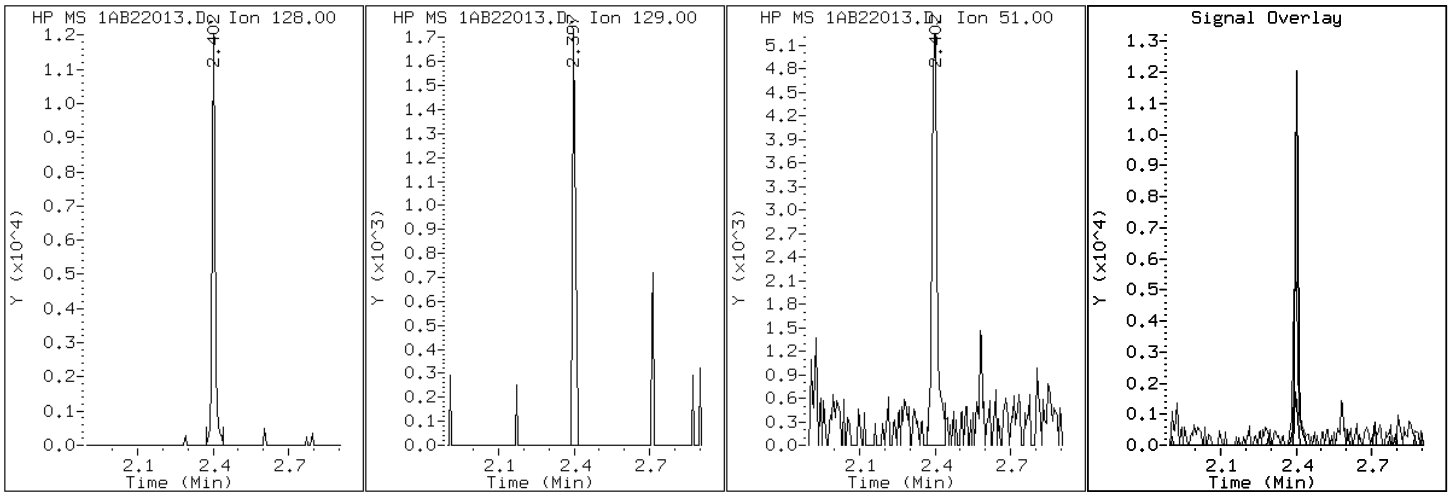
Client ID: FM0160D-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a

Operator: SCC

2 Naphthalene



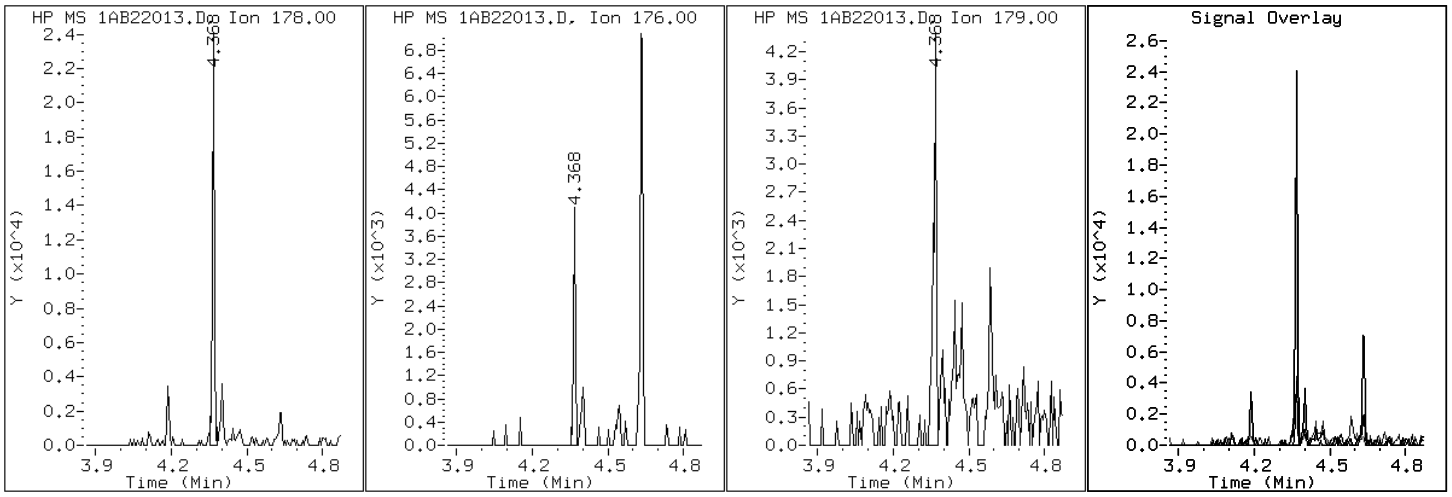
Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

Client ID: FM0160D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a Operator: SCC

11 Phenanthrene



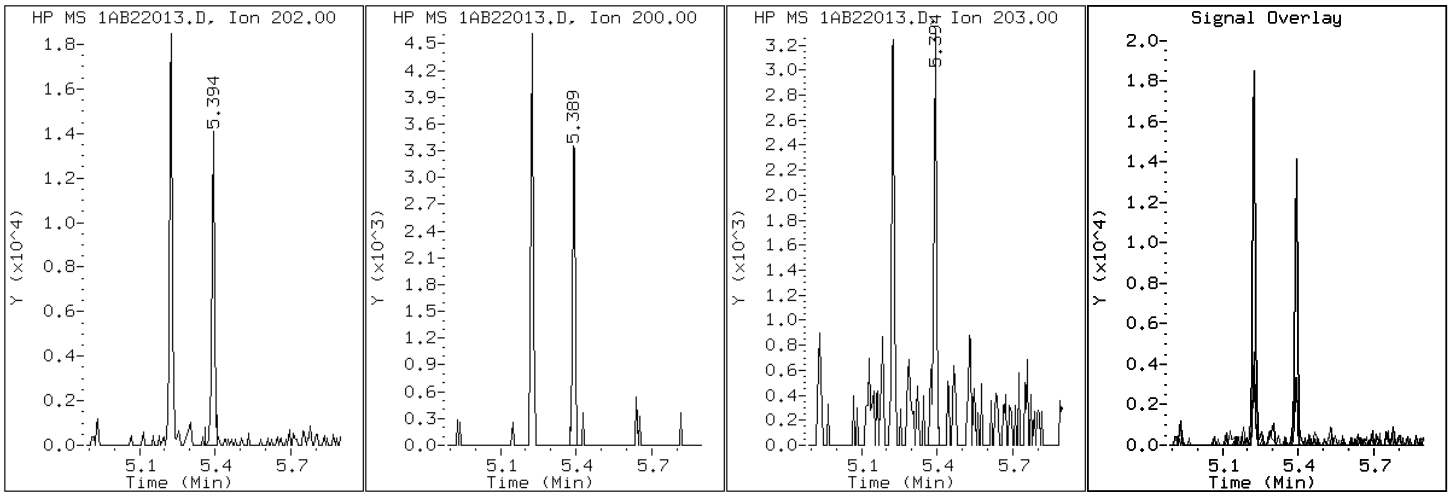
Data File: 1AB22013.D

Date: 22-FEB-2013 13:38

Client ID: FM0160D-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-53-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22013.D
Inj. Date and Time: 22-FEB-2013 13:38
Instrument ID: BSMA5973.i
Client ID: FM0160D-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

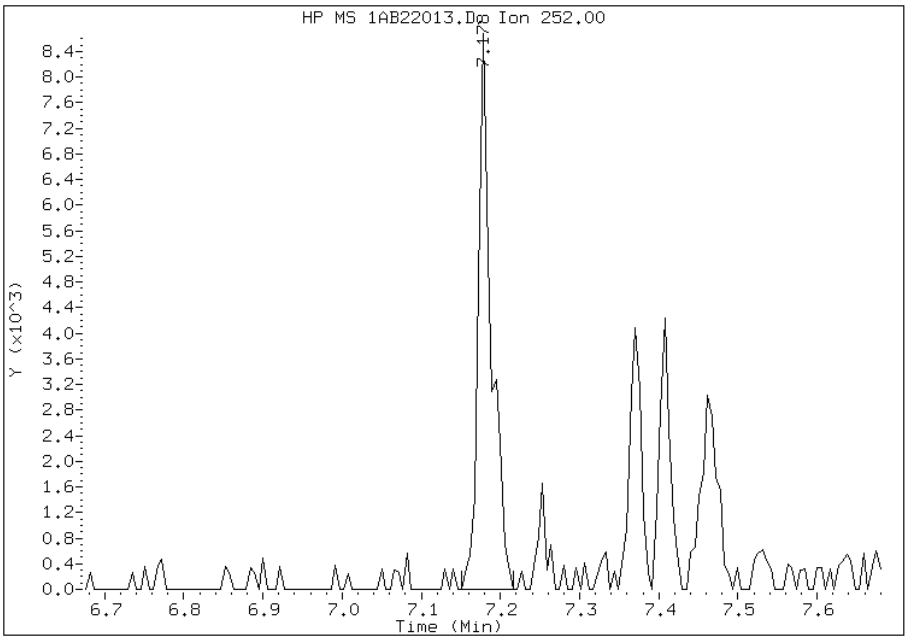
Processing Integration Results

RT: 7.18

Response: 9863

Amount: 1

Conc: 41



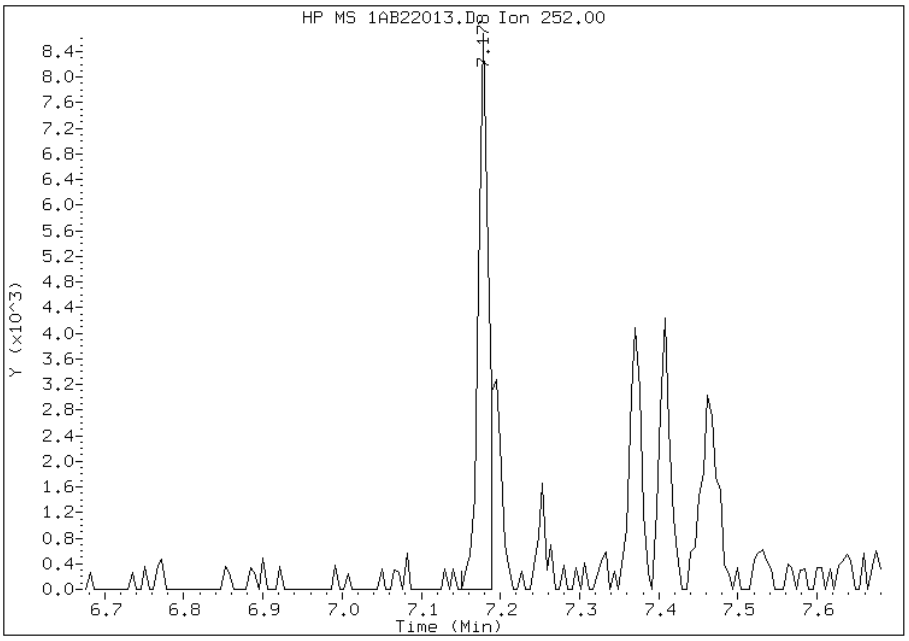
Manual Integration Results

RT: 7.18

Response: 7732

Amount: 0

Conc: 32



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:16
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22013.D
Inj. Date and Time: 22-FEB-2013 13:38
Instrument ID: BSMA5973.i
Client ID: FM0160D-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

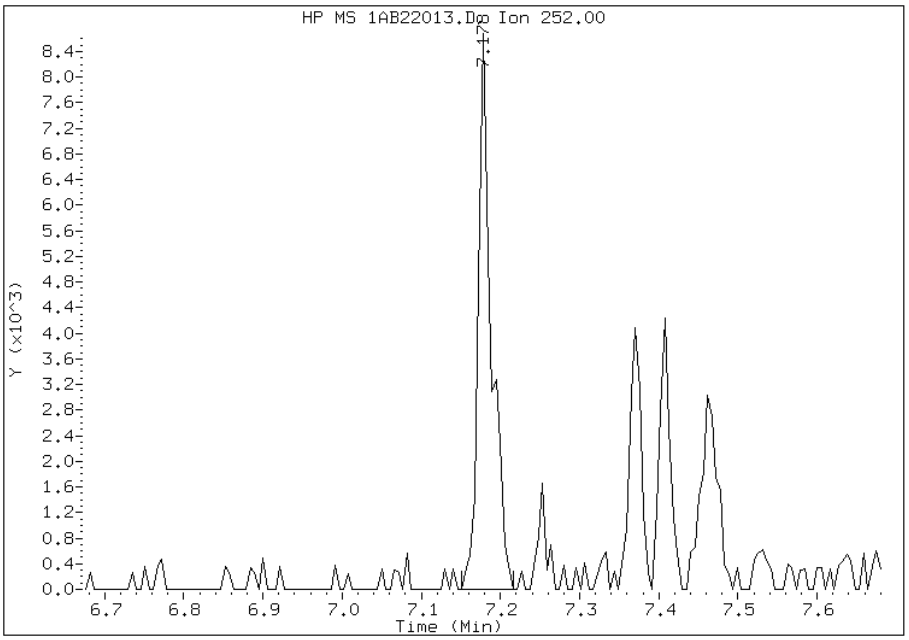
Processing Integration Results

RT: 7.18

Response: 9863

Amount: 1

Conc: 41



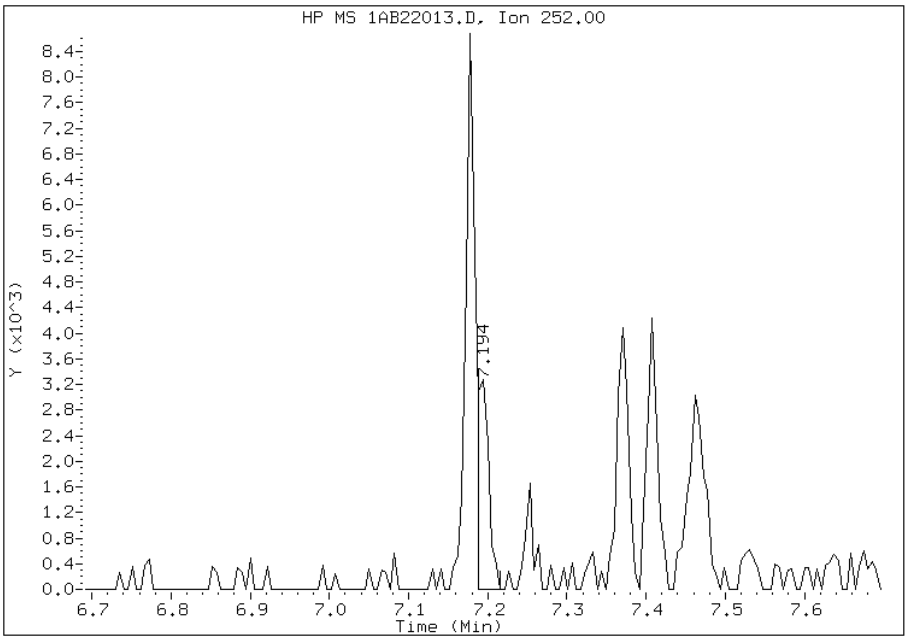
Manual Integration Results

RT: 7.19

Response: 3118

Amount: 0

Conc: 13



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22013.D
Inj. Date and Time: 22-FEB-2013 13:38
Instrument ID: BSMA5973.i
Client ID: FM0160D-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/25/2013

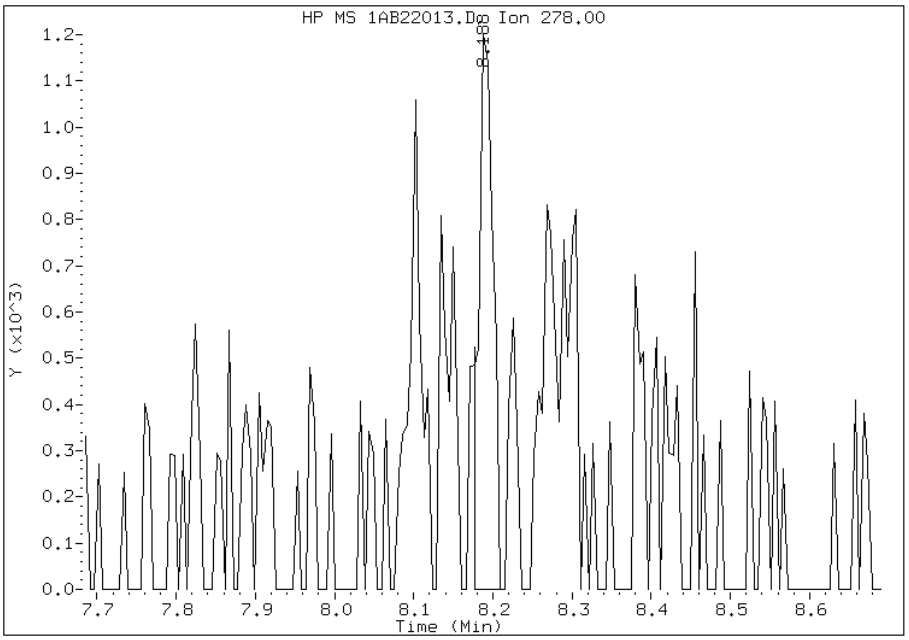
Processing Integration Results

RT: 8.19

Response: 1506

Amount: 0

Conc: 8



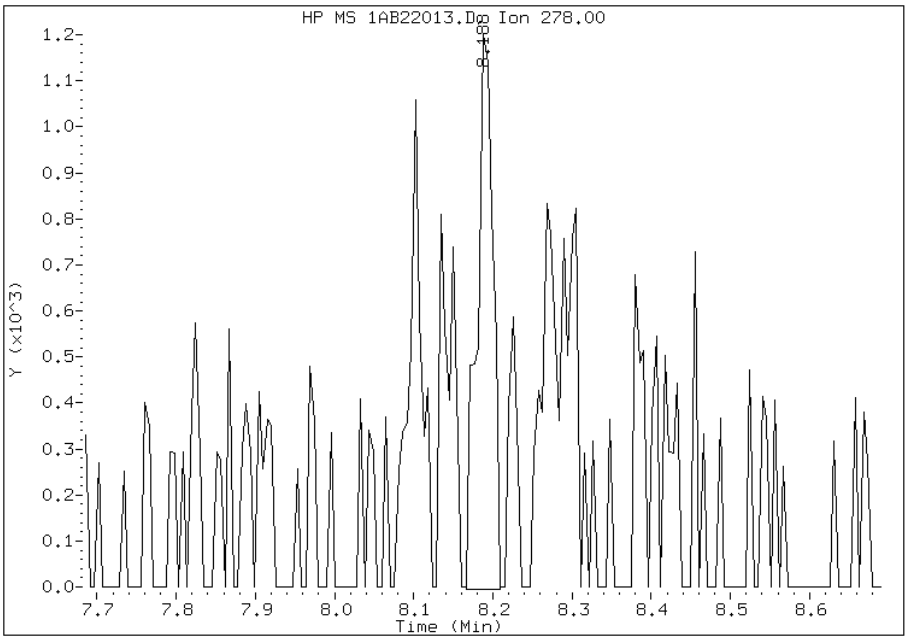
Manual Integration Results

RT: 8.19

Response: 1675

Amount: 0

Conc: 9



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:17
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22013.D
Inj. Date and Time: 22-FEB-2013 13:38
Instrument ID: BSMA5973.i
Client ID: FM0160D-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

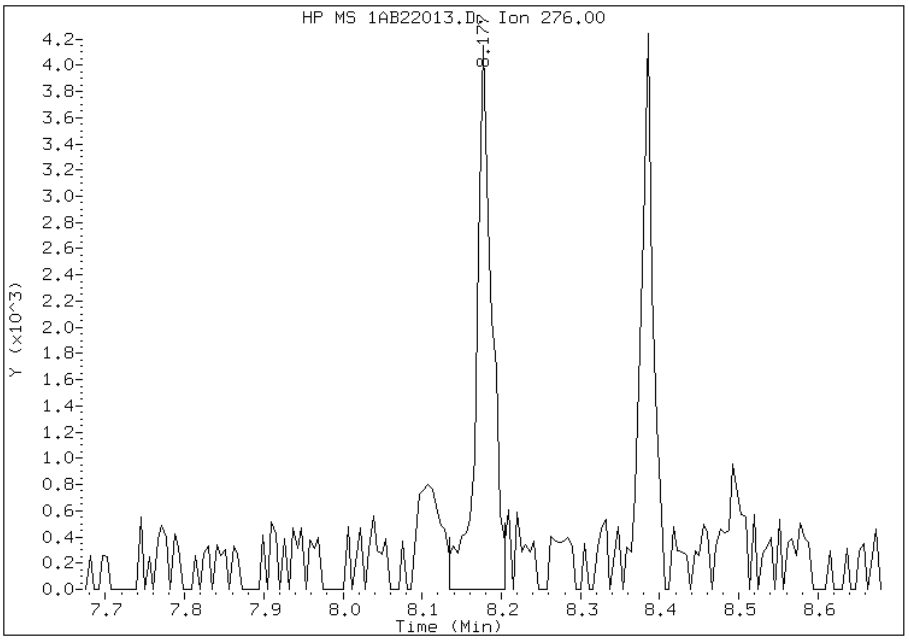
Processing Integration Results

RT: 8.18

Response: 5615

Amount: 0

Conc: 30



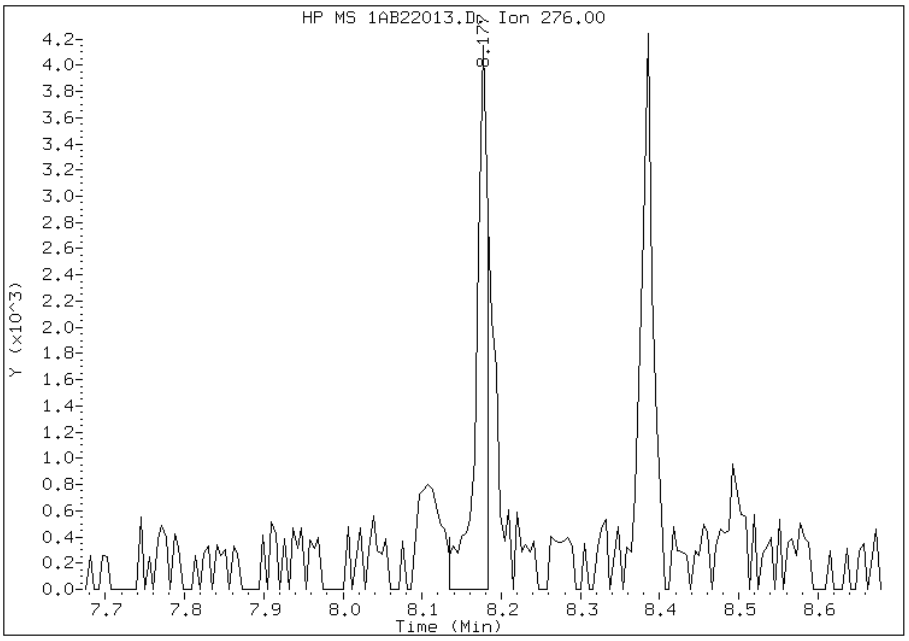
Manual Integration Results

RT: 8.18

Response: 4113

Amount: 0

Conc: 22



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:17
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: FM0160E-CS | Lab Sample ID: 680-87496-54

Matrix: Solid | Lab File ID: 1AB22014.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 15:38

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 14.93(g) | Date Analyzed: 02/22/2013 13:53

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

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

% Moisture: 4.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	30	J	42	5.2
120-12-7	Anthracene	57		8.8	4.4
56-55-3	Benzo[a]anthracene	180		8.4	4.1
50-32-8	Benzo[a]pyrene	100		11	5.4
205-99-2	Benzo[b]fluoranthene	340		13	6.4
191-24-2	Benzo[g,h,i]perylene	110		21	4.6
207-08-9	Benzo[k]fluoranthene	110		8.4	3.8
218-01-9	Chrysene	470		9.4	4.7
53-70-3	Dibenz(a,h)anthracene	36		21	4.3
206-44-0	Fluoranthene	310		21	4.2
86-73-7	Fluorene	8.2	J	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	110		21	7.4
90-12-0	1-Methylnaphthalene	33	J	42	4.6
91-57-6	2-Methylnaphthalene	43		42	7.4
91-20-3	Naphthalene	52		42	4.6
85-01-8	Phenanthrene	81		8.4	4.1
129-00-0	Pyrene	480		21	3.9

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\BSMA5973.i\1A022213_IC.b\1AB22014.D
Lab Smp Id: 680-87496-A-54-A Client Smp ID: FM0160E-CS
Inj Date : 22-FEB-2013 13:53
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-54-a
Misc Info : 680-87496-A-54-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 14
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	14.930	Weight Extracted
M	4.112	% 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	2.394	2.397	(1.000)	965587	40.0000	
* 6 Acenaphthene-d10	164	3.420	3.417	(1.000)	730508	40.0000	
* 10 Phenanthrene-d10	188	4.355	4.352	(1.000)	1053981	40.0000	
$ 14 o-Terphenyl	230	4.633	4.635	(1.064)	115359	7.52185	525.4132
* 18 Chrysene-d12	240	6.374	6.366	(1.000)	560800	40.0000	
* 23 Perylene-d12	264	7.469	7.456	(1.000)	718989	40.0000	
2 Naphthalene	128	2.405	2.402	(1.004)	17231	0.74058	51.7304(Q)
3 2-Methylnaphthalene	141	2.806	2.808	(1.172)	7349	0.61184	42.7380
4 1-Methylnaphthalene	142	2.864	2.861	(1.196)	6278	0.46937	32.7862
5 Acenaphthylene	152	3.329	3.332	(0.973)	11592	0.42499	29.6860
9 Fluorene	166	3.746	3.743	(1.095)	2335	0.11738	8.1994(Q)
11 Phenanthrene	178	4.371	4.368	(1.004)	30334	1.15786	80.8781
12 Anthracene	178	4.403	4.400	(1.011)	20919	0.82204	57.4205
13 Carbazole	167	4.558	4.555	(1.047)	17668	0.78649	54.9378

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.231	5.228	(1.201)	114854	4.38463	306.2733
16 Pyrene	202	5.396	5.394	(0.847)	113779	6.91706	483.1678
17 Benzo(a)anthracene	228	6.369	6.355	(0.999)	43490	2.59719	181.4176
19 Chrysene	228	6.385	6.387	(1.002)	99919	6.67194	466.0460
20 Benzo(b)fluoranthene	252	7.186	7.178	(0.962)	89231	4.89572	341.9740(M)
21 Benzo(k)fluoranthene	252	7.197	7.199	(0.964)	28503	1.55442	108.5784(QMH)
22 Benzo(a)pyrene	252	7.410	7.408	(0.992)	24239	1.45218	101.4372
24 Indeno(1,2,3-cd)pyrene	276	8.185	8.177	(1.096)	22582	1.57698	110.1544(M)
25 Dibenzo(a,h)anthracene	278	8.196	8.193	(1.097)	7779	0.52130	36.4134
26 Benzo(g,h,i)perylene	276	8.393	8.385	(1.124)	24410	1.60268	111.9500

QC Flag Legend

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

Data File: 1AB22014.D

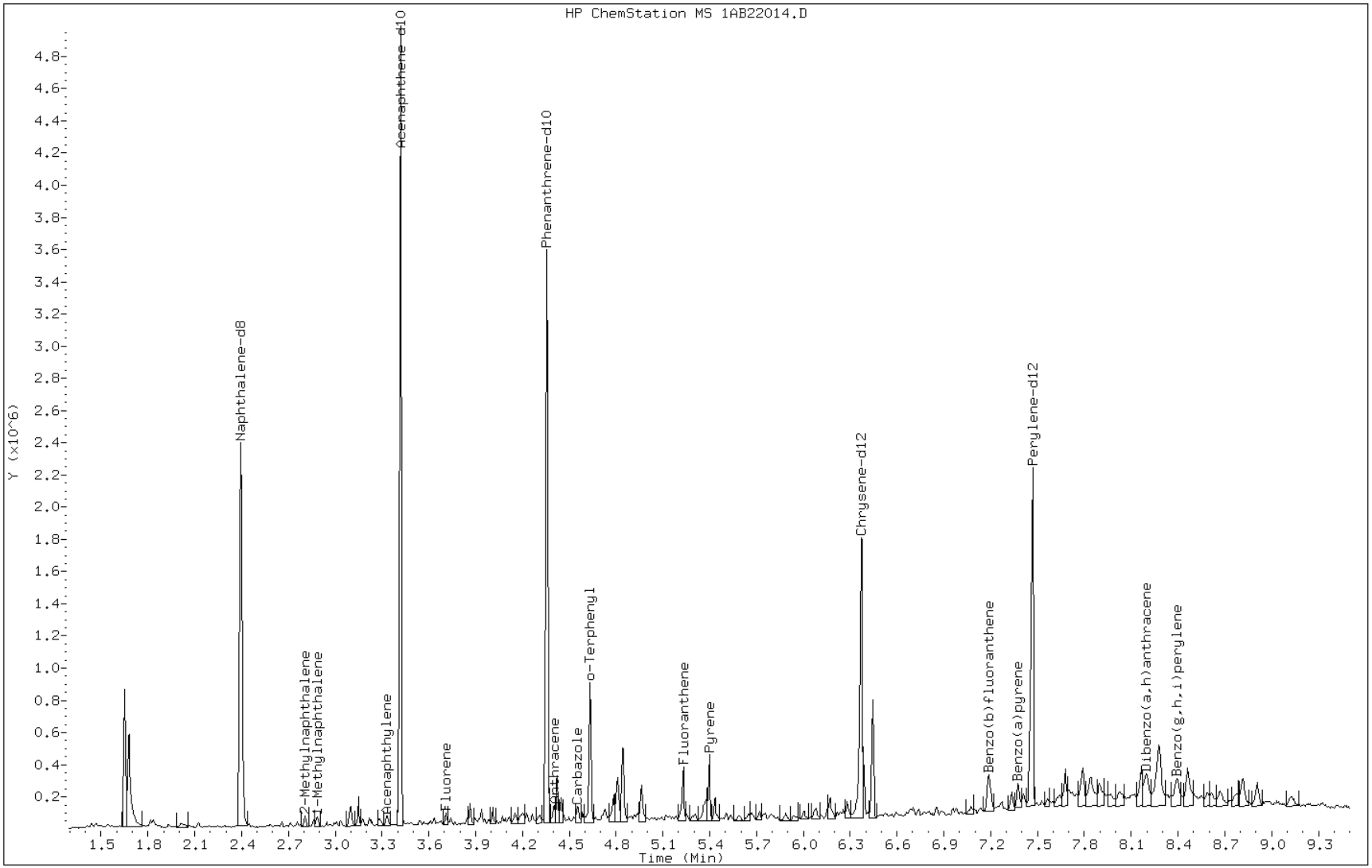
Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a

Operator: SCC



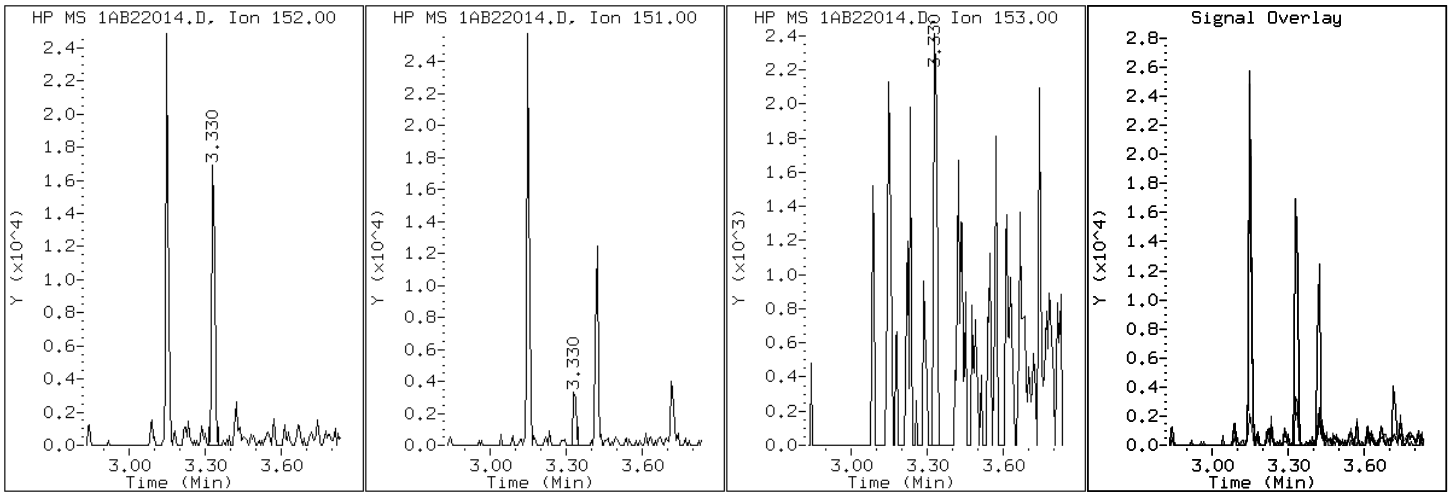
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

5 Acenaphthylene



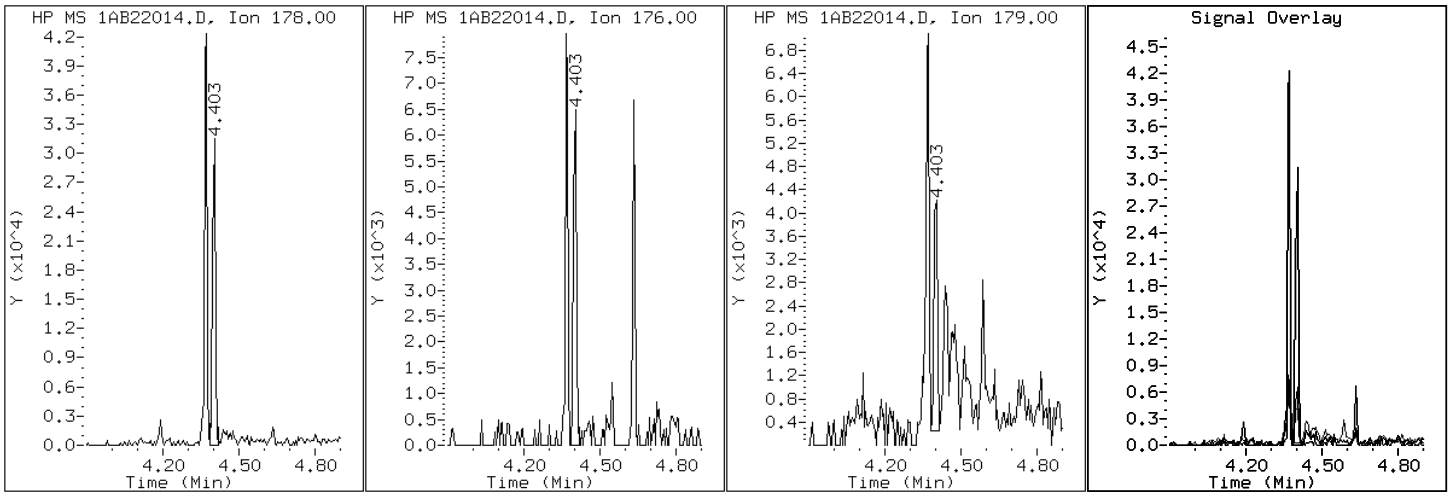
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

12 Anthracene



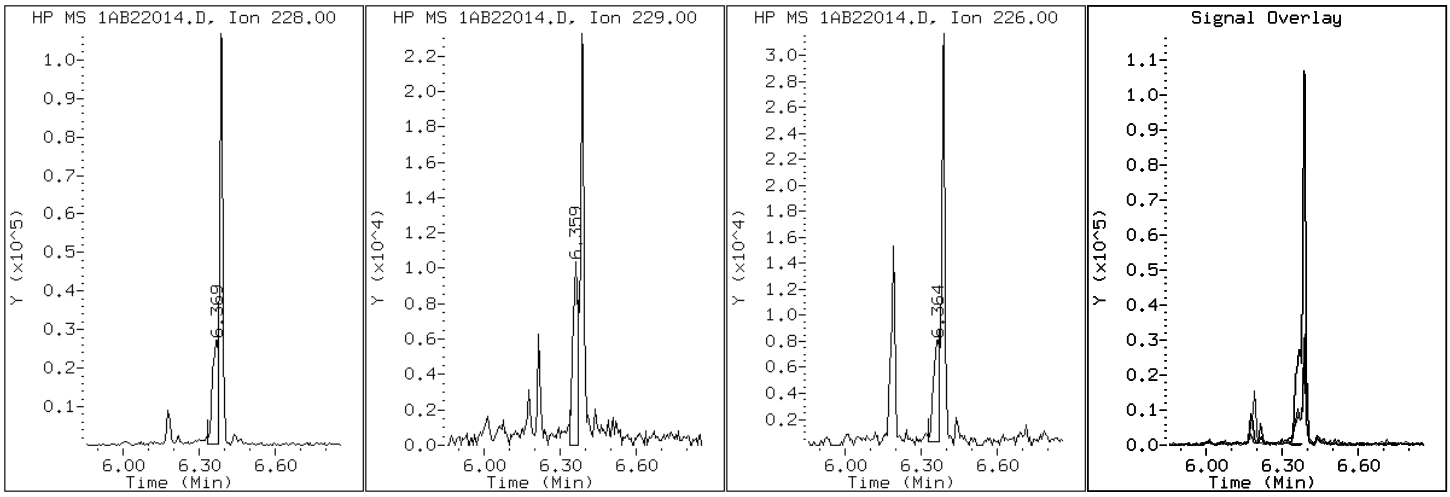
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

17 Benzo(a)anthracene



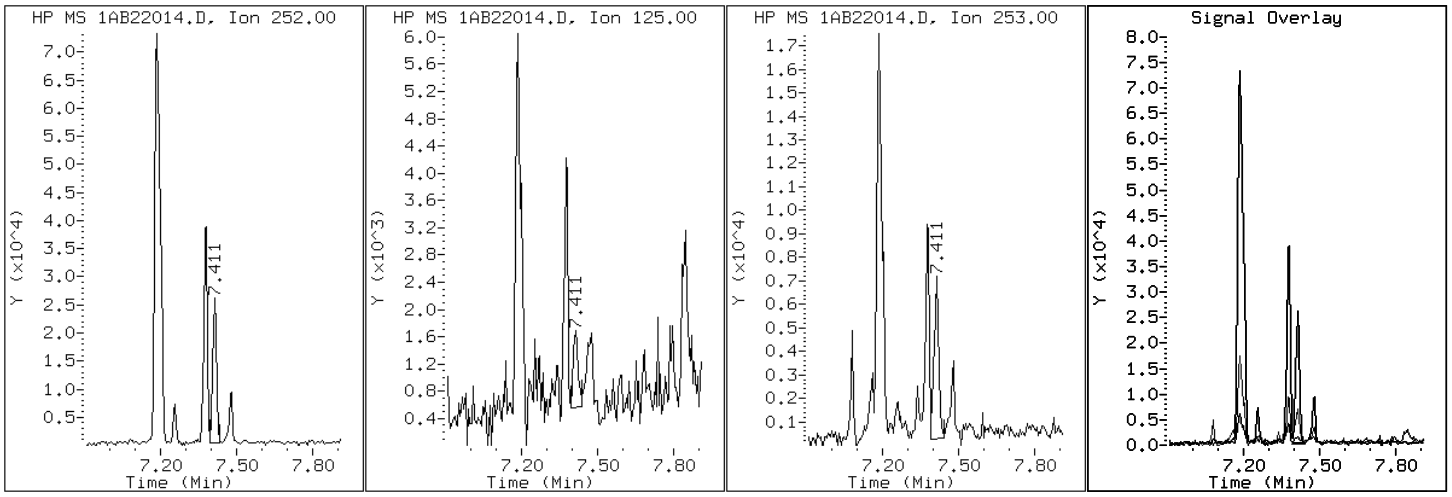
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

22 Benzo(a)pyrene



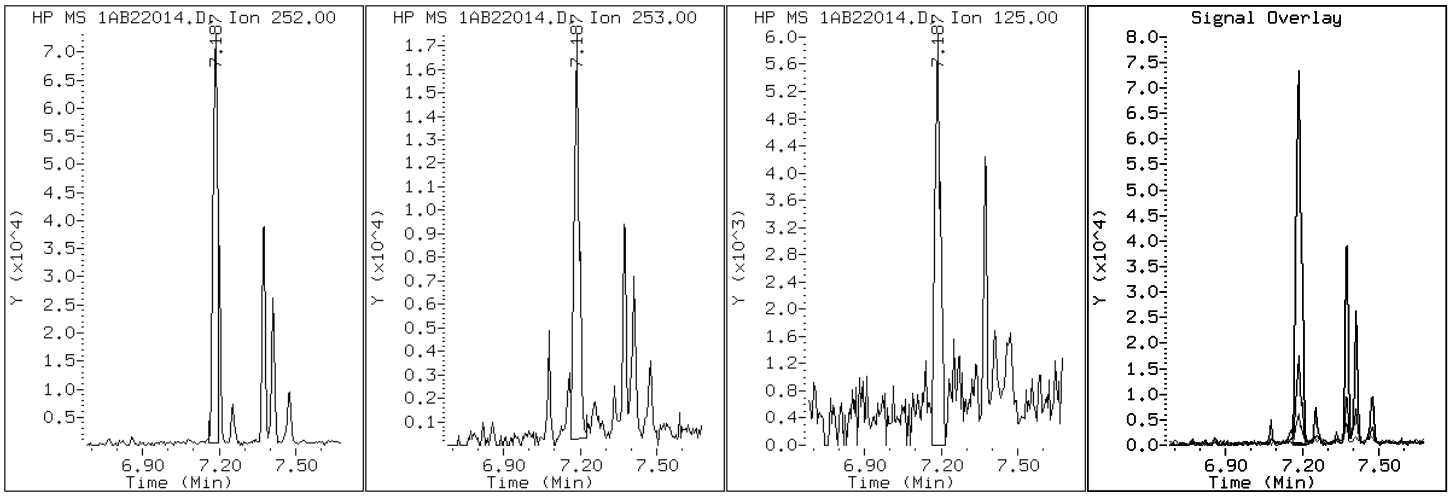
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

20 Benzo(b)fluoranthene



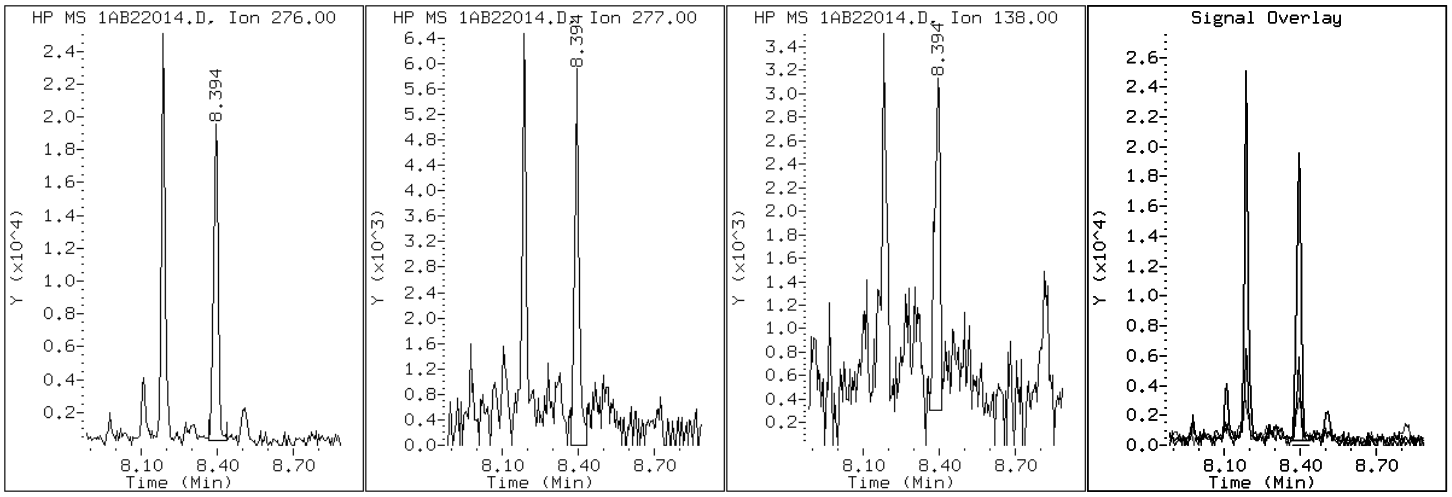
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

26 Benzo(g,h,i)perylene



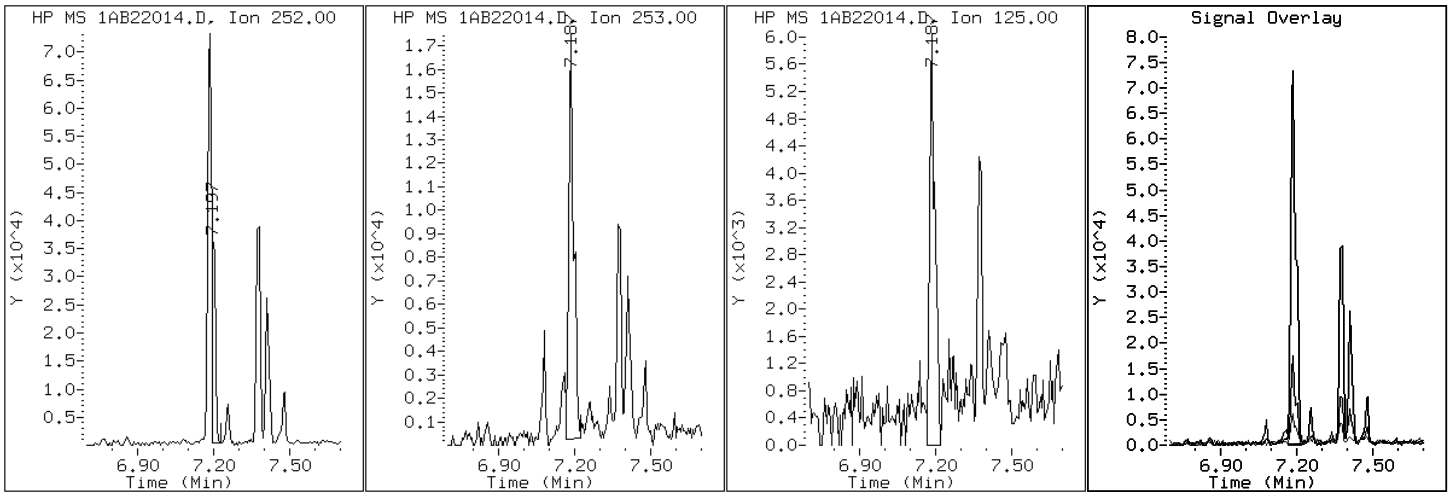
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

21 Benzo(k)fluoranthene



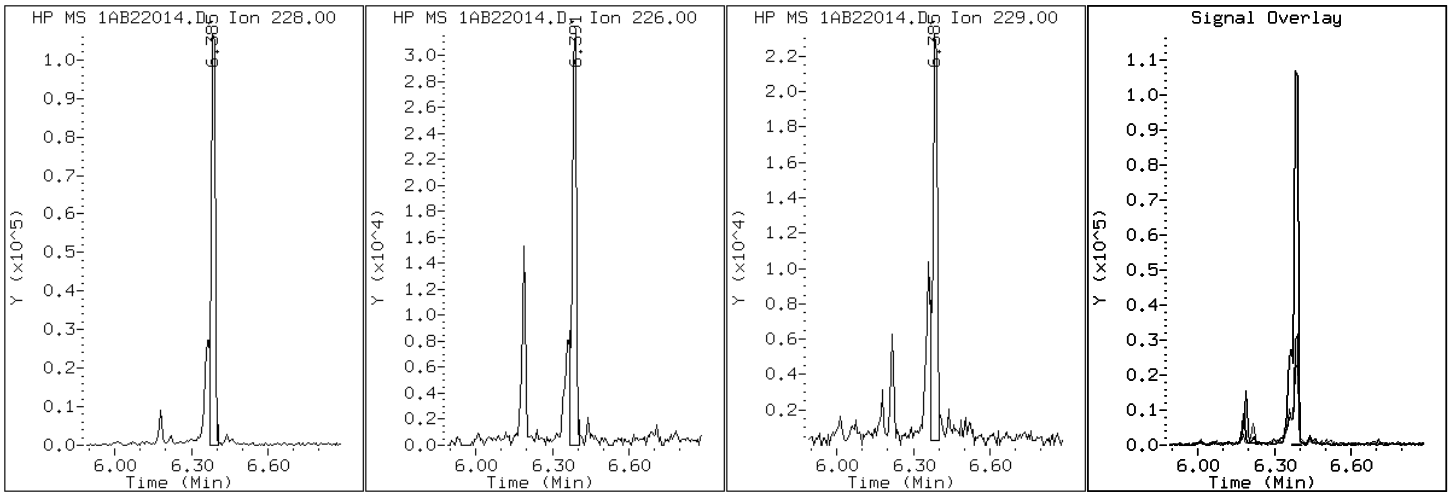
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

19 Chrysene



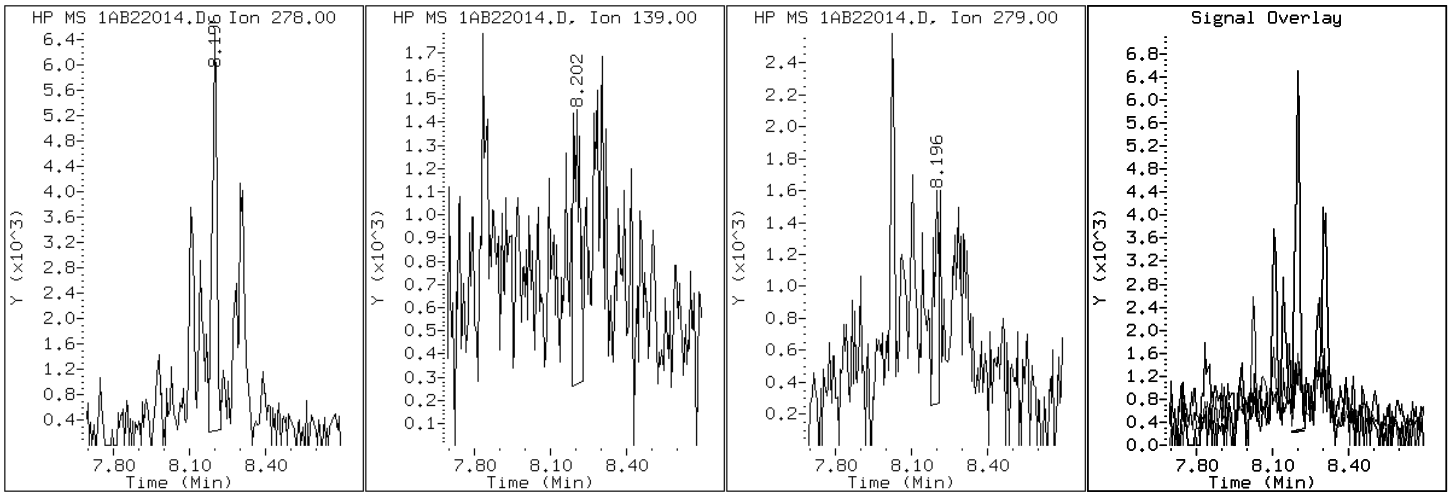
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

25 Dibenzo(a,h)anthracene



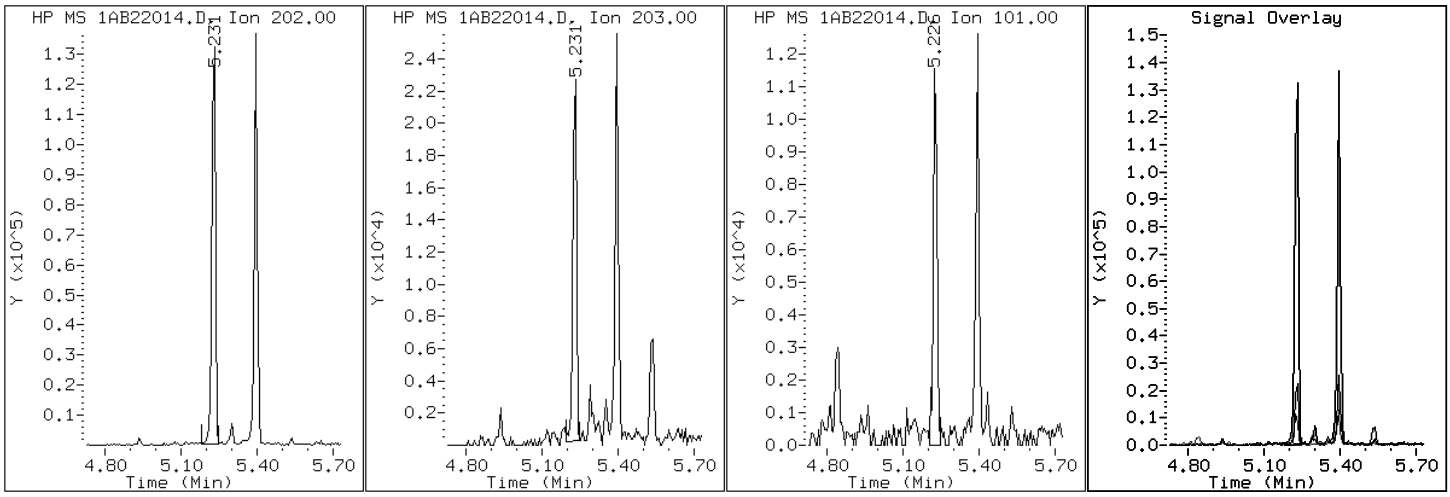
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

15 Fluoranthene



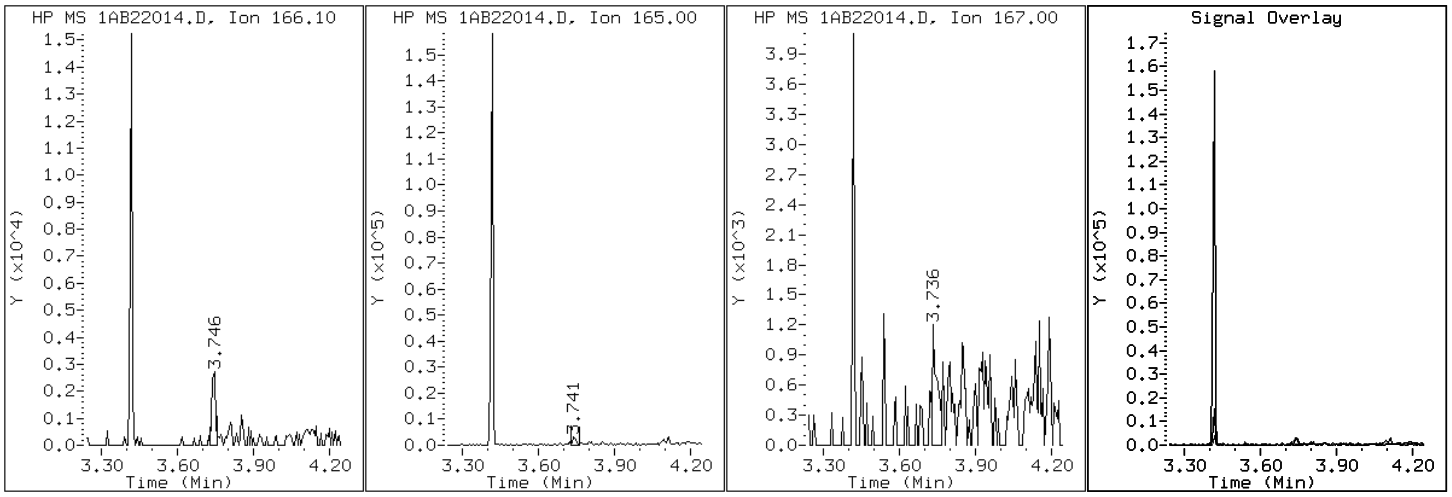
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

9 Fluorene



Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

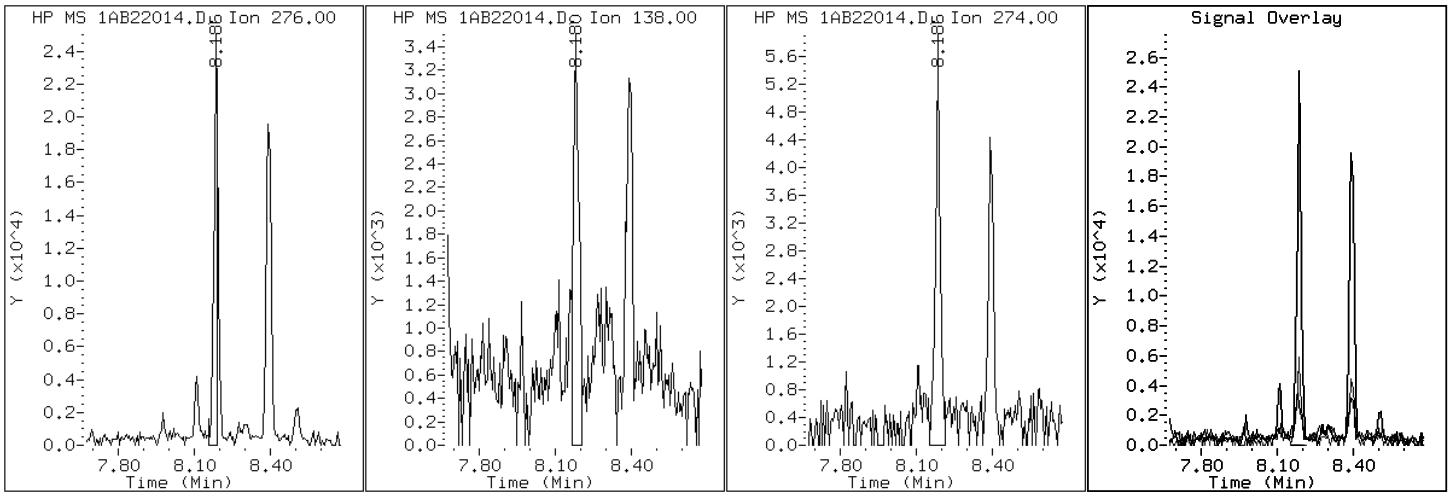
Client ID: FM0160E-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a

Operator: SCC

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



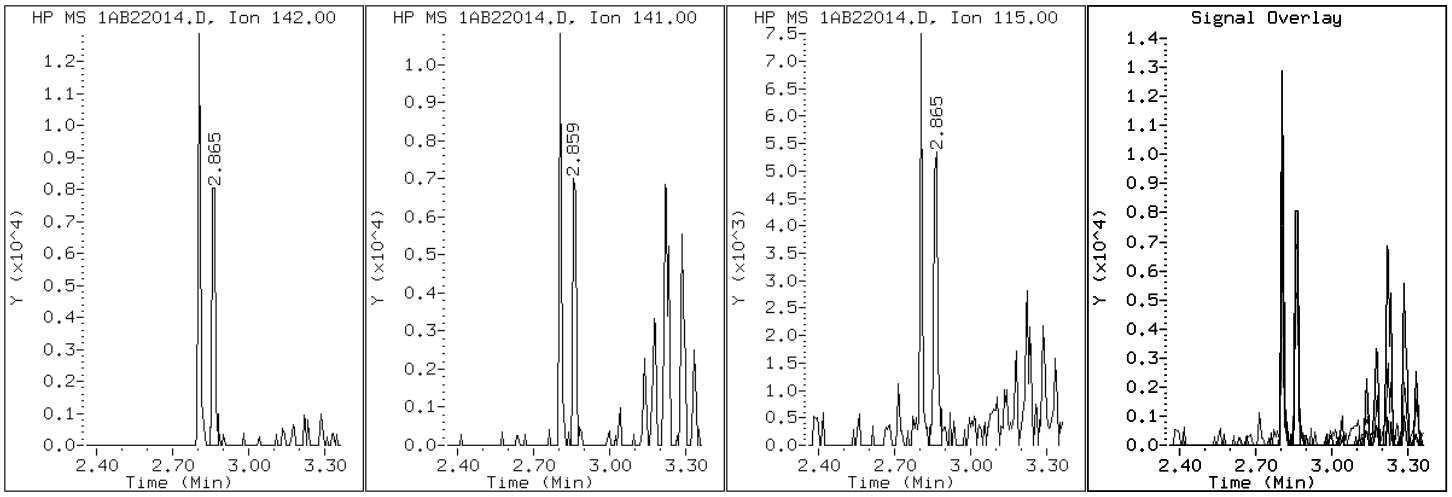
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

4 1-Methylnaphthalene



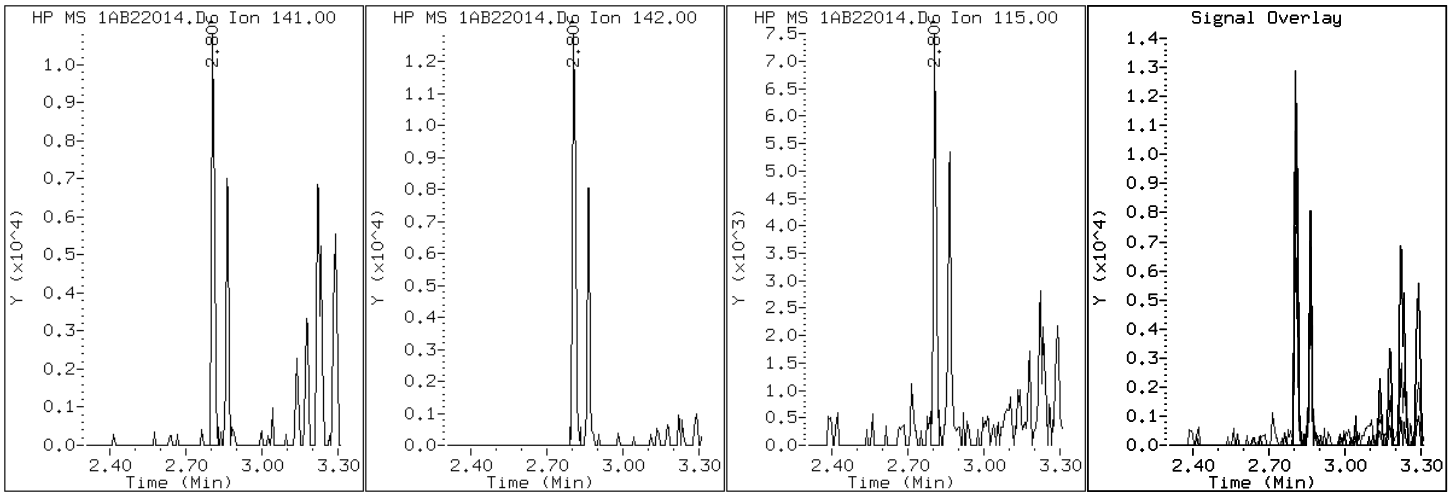
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

3 2-Methylnaphthalene



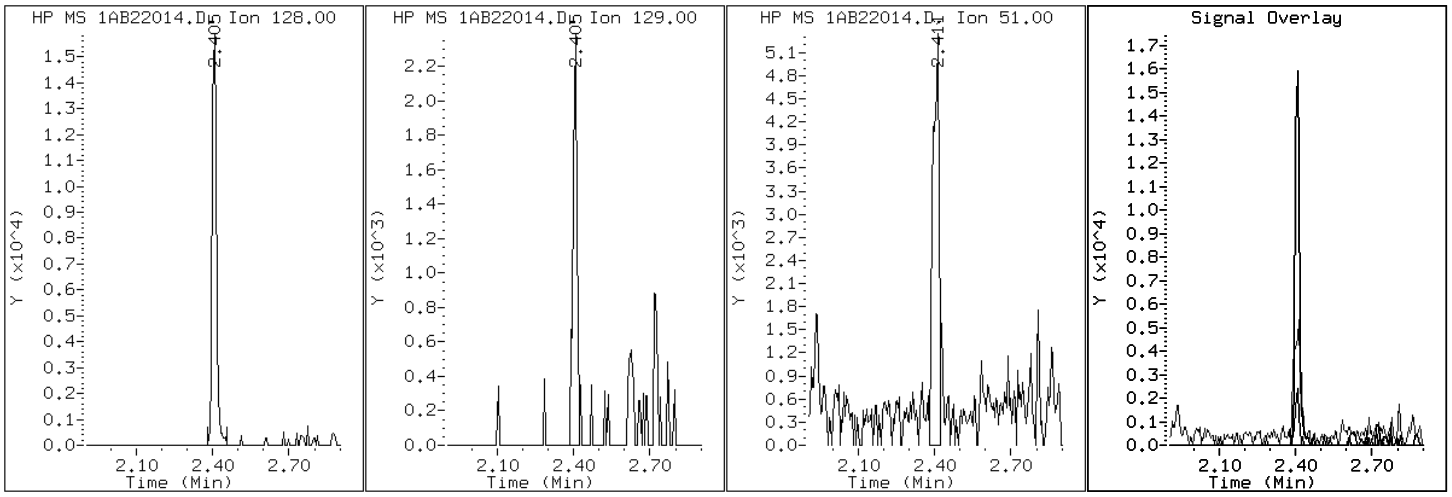
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

2 Naphthalene



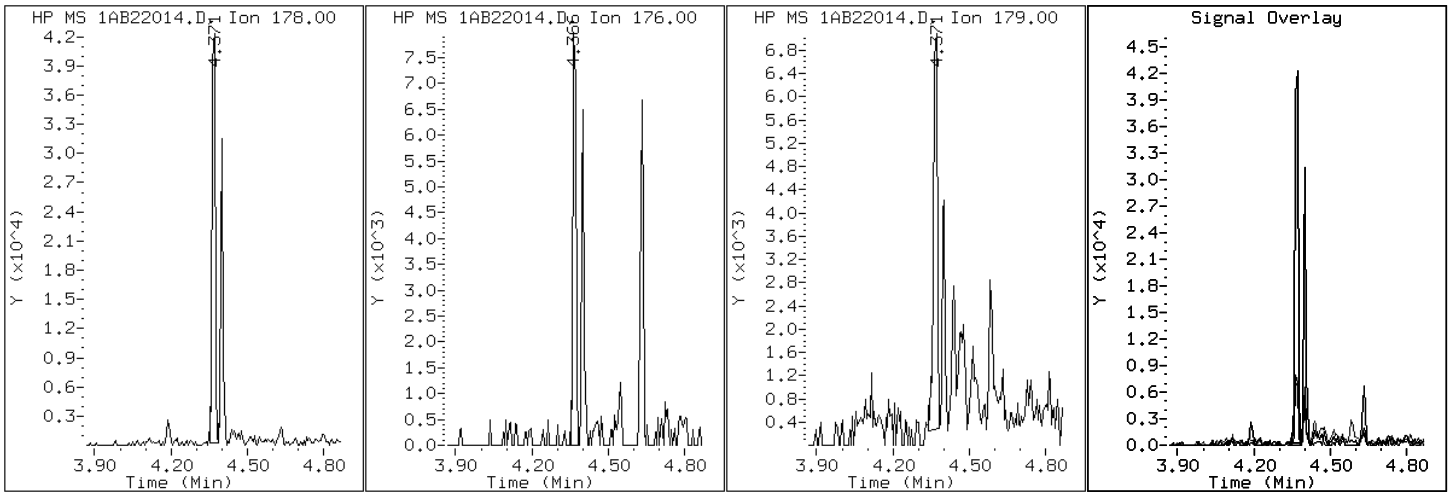
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

11 Phenanthrene



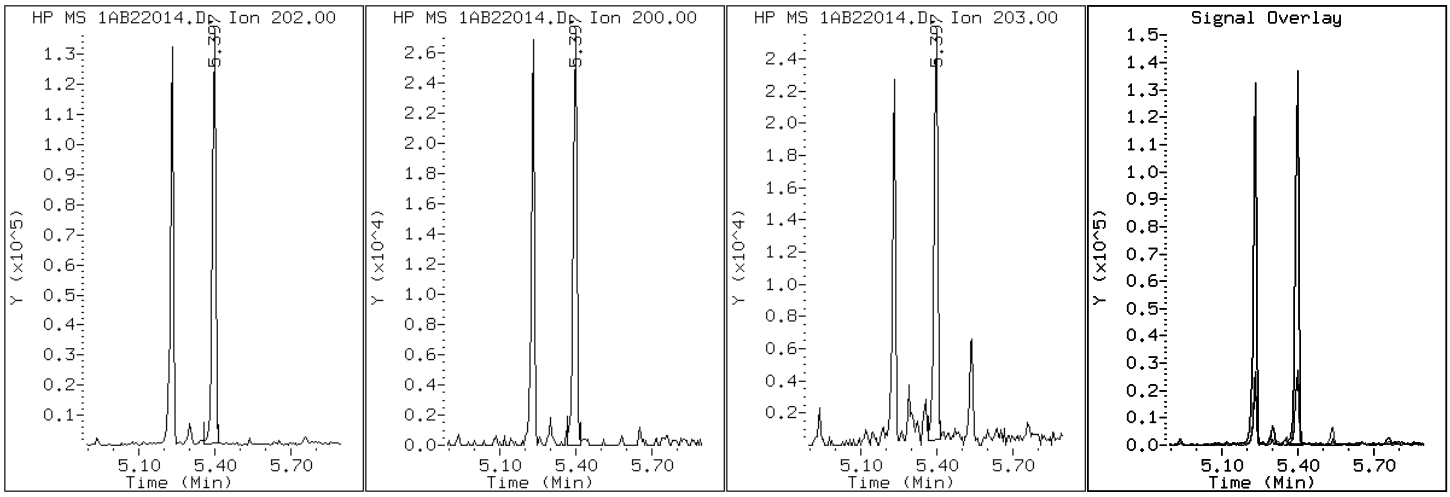
Data File: 1AB22014.D

Date: 22-FEB-2013 13:53

Client ID: FM0160E-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-54-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22014.D
Inj. Date and Time: 22-FEB-2013 13:53
Instrument ID: BSMA5973.i
Client ID: FM0160E-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

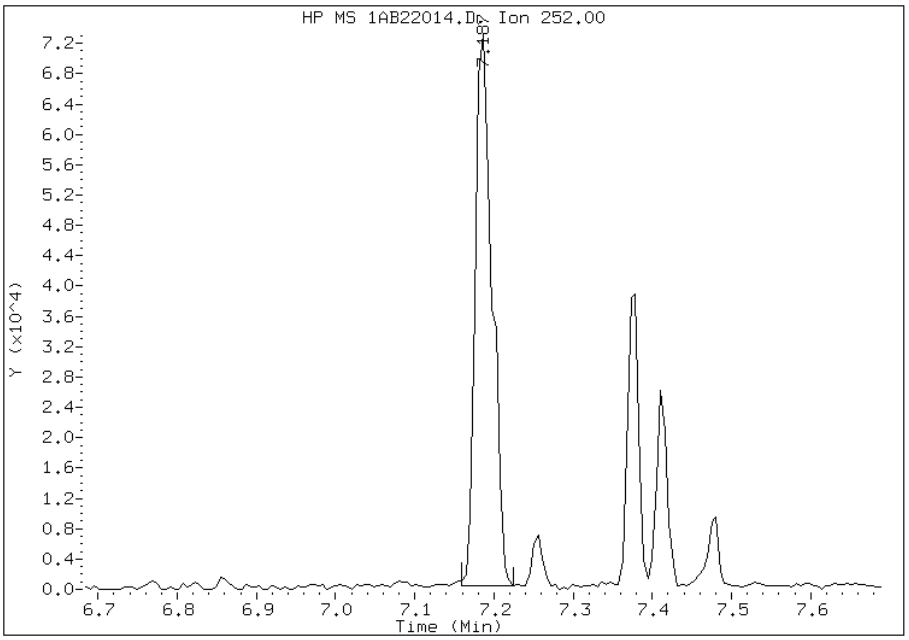
Processing Integration Results

RT: 7.19

Response: 105685

Amount: 6

Conc: 405



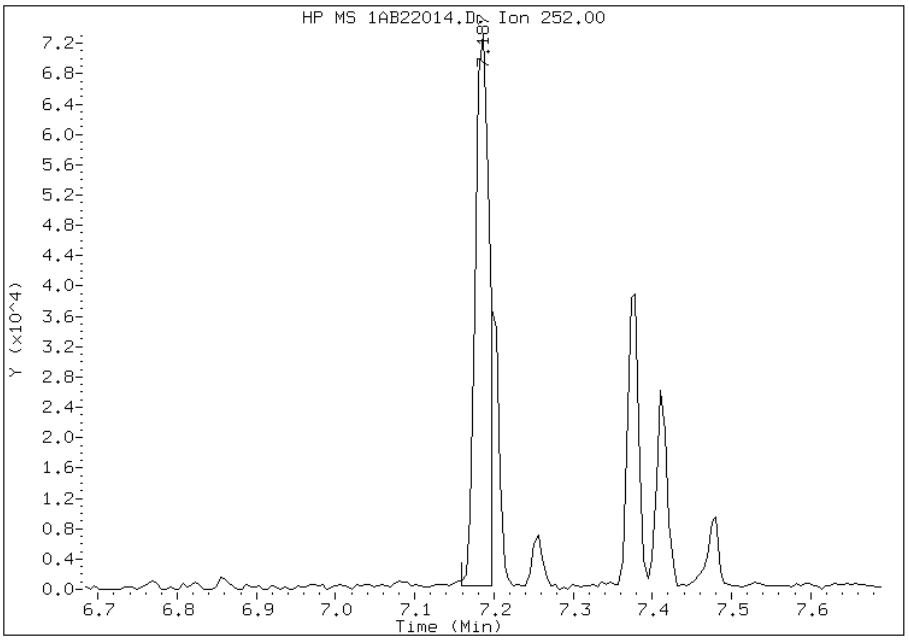
Manual Integration Results

RT: 7.19

Response: 89231

Amount: 5

Conc: 342



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:18
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22014.D
Inj. Date and Time: 22-FEB-2013 13:53
Instrument ID: BSMA5973.i
Client ID: FM0160E-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

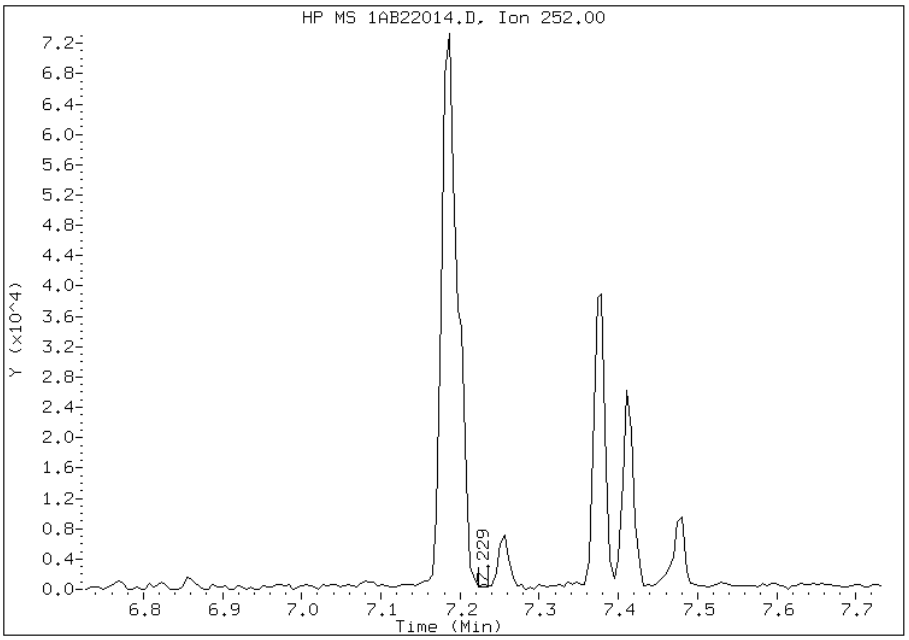
Processing Integration Results

RT: 7.23

Response: 285

Amount: 0

Conc: 1



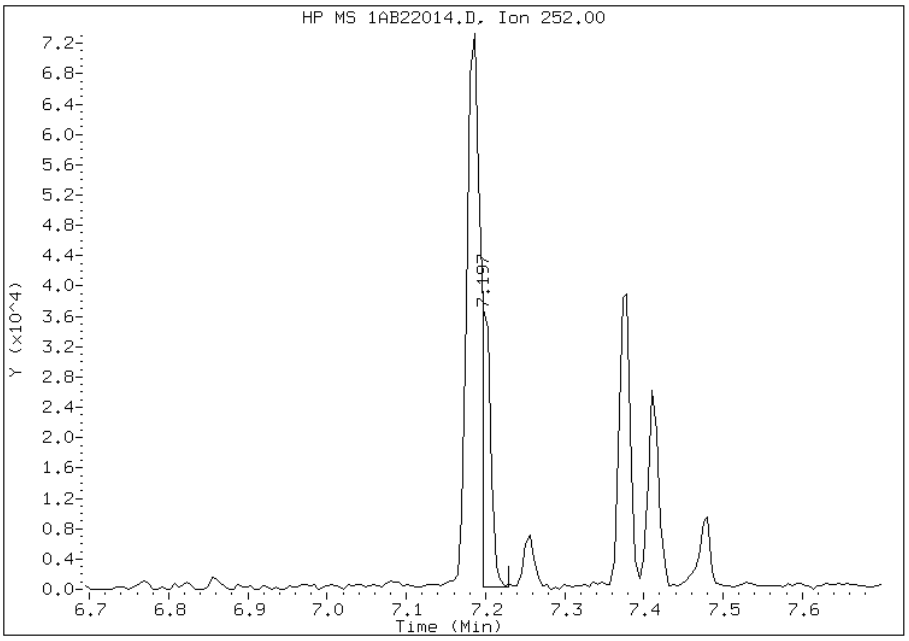
Manual Integration Results

RT: 7.20

Response: 28503

Amount: 2

Conc: 109



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:18
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22014.D
Inj. Date and Time: 22-FEB-2013 13:53
Instrument ID: BSMA5973.i
Client ID: FM0160E-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

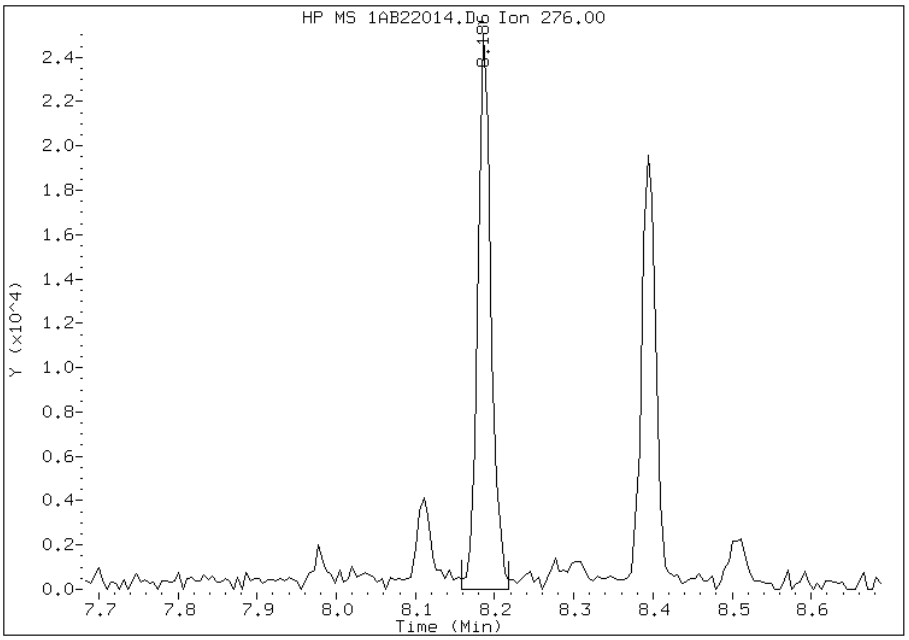
Processing Integration Results

RT: 8.19

Response: 28866

Amount: 2

Conc: 141



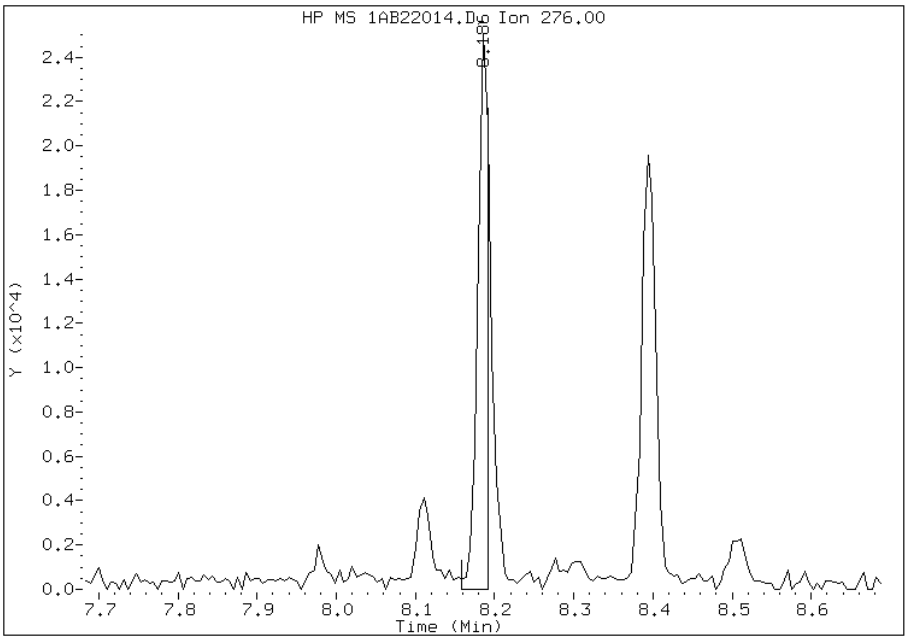
Manual Integration Results

RT: 8.19

Response: 22582

Amount: 2

Conc: 110



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:19
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: FM0160F-CS | Lab Sample ID: 680-87496-55

Matrix: Solid | Lab File ID: 1AB22015.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 15:45

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.50(g) | Date Analyzed: 02/22/2013 14:08

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

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

% Moisture: 20.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	120	U	120	24
208-96-8	Acenaphthylene	49	U	49	6.1
120-12-7	Anthracene	7.5	J	10	5.1
56-55-3	Benzo[a]anthracene	37		9.8	4.8
50-32-8	Benzo[a]pyrene	25		13	6.3
205-99-2	Benzo[b]fluoranthene	35		15	7.4
191-24-2	Benzo[g,h,i]perylene	29		24	5.4
207-08-9	Benzo[k]fluoranthene	15		9.8	4.4
218-01-9	Chrysene	32		11	5.5
53-70-3	Dibenz(a,h)anthracene	13	J	24	5.0
206-44-0	Fluoranthene	44		24	4.9
86-73-7	Fluorene	24	U	24	5.0
193-39-5	Indeno[1,2,3-cd]pyrene	30		24	8.7
90-12-0	1-Methylnaphthalene	16	J	49	5.4
91-57-6	2-Methylnaphthalene	21	J	49	8.7
91-20-3	Naphthalene	26	J	49	5.4
85-01-8	Phenanthrene	34		9.8	4.8
129-00-0	Pyrene	49		24	4.5

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\1A022213_IC.b\1AB22015.D
Lab Smp Id: 680-87496-A-55-A Client Smp ID: FM0160F-CS
Inj Date : 22-FEB-2013 14:08
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-55-a
Misc Info : 680-87496-A-55-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 15
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	15.500	Weight Extracted
M	20.732	% 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	2.395	2.397	(1.000)	1044761	40.0000	
* 6 Acenaphthene-d10	164	3.420	3.417	(1.000)	782003	40.0000	
* 10 Phenanthrene-d10	188	4.355	4.352	(1.000)	1146832	40.0000	
$ 14 o-Terphenyl	230	4.633	4.635	(1.064)	128853	7.72148	628.4478
* 18 Chrysene-d12	240	6.369	6.366	(1.000)	639541	40.0000	
* 23 Perylene-d12	264	7.470	7.456	(1.000)	733759	40.0000	
2 Naphthalene	128	2.405	2.402	(1.004)	7908	0.31412	25.5663(Q)
3 2-Methylnaphthalene	141	2.806	2.808	(1.172)	3316	0.25515	20.7667
4 1-Methylnaphthalene	142	2.859	2.861	(1.194)	2860	0.19762	16.0843
11 Phenanthrene	178	4.371	4.368	(1.004)	11904	0.41759	33.9875
12 Anthracene	178	4.403	4.400	(1.011)	2555	0.09227	7.5100
15 Fluoranthene	202	5.231	5.228	(1.201)	15323	0.53760	43.7554
16 Pyrene	202	5.391	5.394	(0.847)	11247	0.59956	48.7982
17 Benzo(a)anthracene	228	6.364	6.355	(0.999)	8625	0.45166	36.7604

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
19 Chrysene	228	6.385	6.387	(1.003)	6778	0.39687	32.3008
20 Benzo(b)fluoranthene	252	7.181	7.178	(0.961)	8072	0.43396	35.3199(M)
21 Benzo(k)fluoranthene	252	7.192	7.199	(0.963)	3434	0.18350	14.9353(QM)
22 Benzo(a)pyrene	252	7.411	7.408	(0.992)	5321	0.31237	25.4235
24 Indeno(1,2,3-cd)pyrene	276	8.180	8.177	(1.095)	5344	0.36568	29.7623(M)
25 Dibenzo(a,h)anthracene	278	8.196	8.193	(1.097)	2471	0.16226	13.2060
26 Benzo(g,h,i)perylene	276	8.388	8.385	(1.123)	5461	0.35133	28.5949

QC Flag Legend

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

Data File: 1AB22015.D

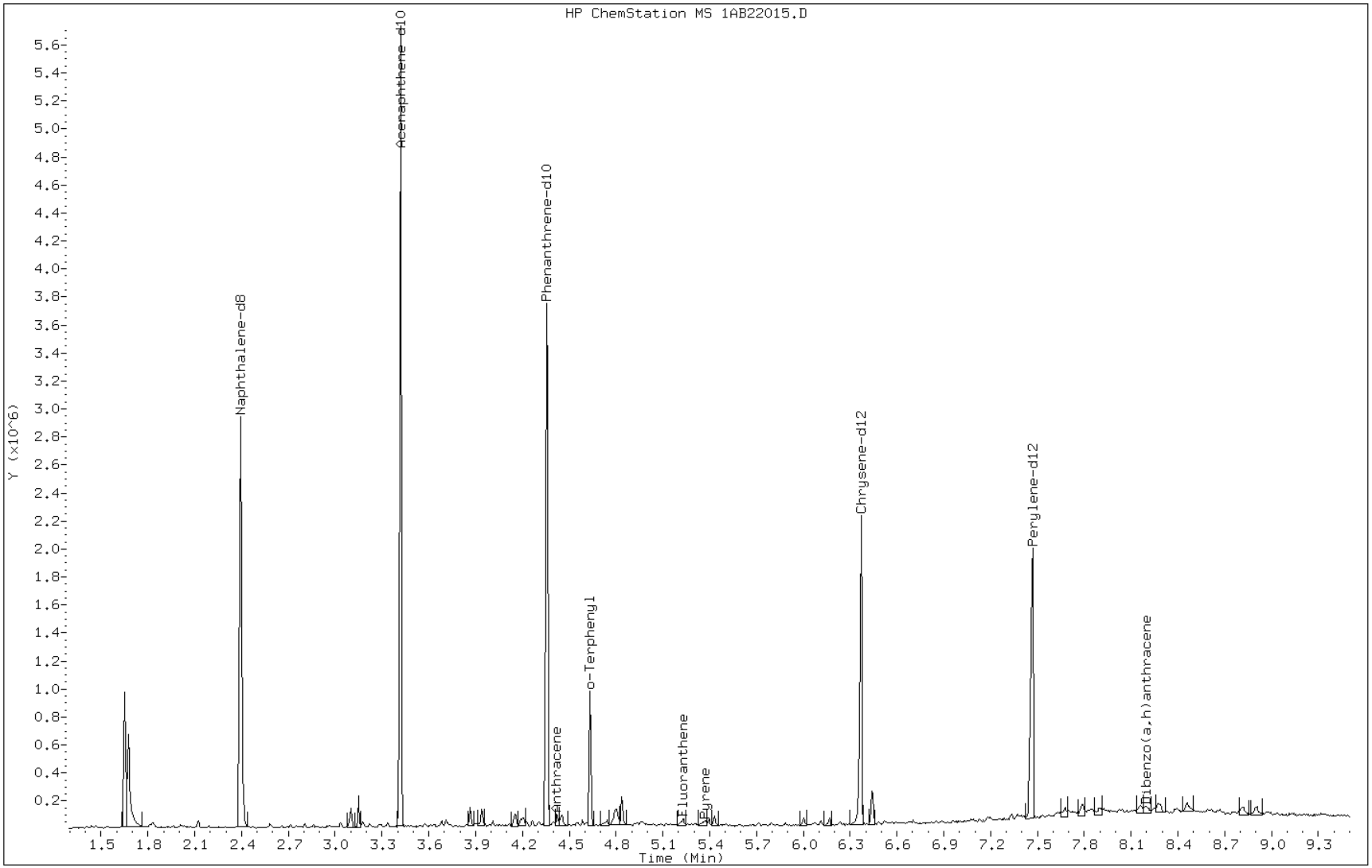
Date: 22-FEB-2013 14:08

Client ID: FM0160F-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a

Operator: SCC



Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

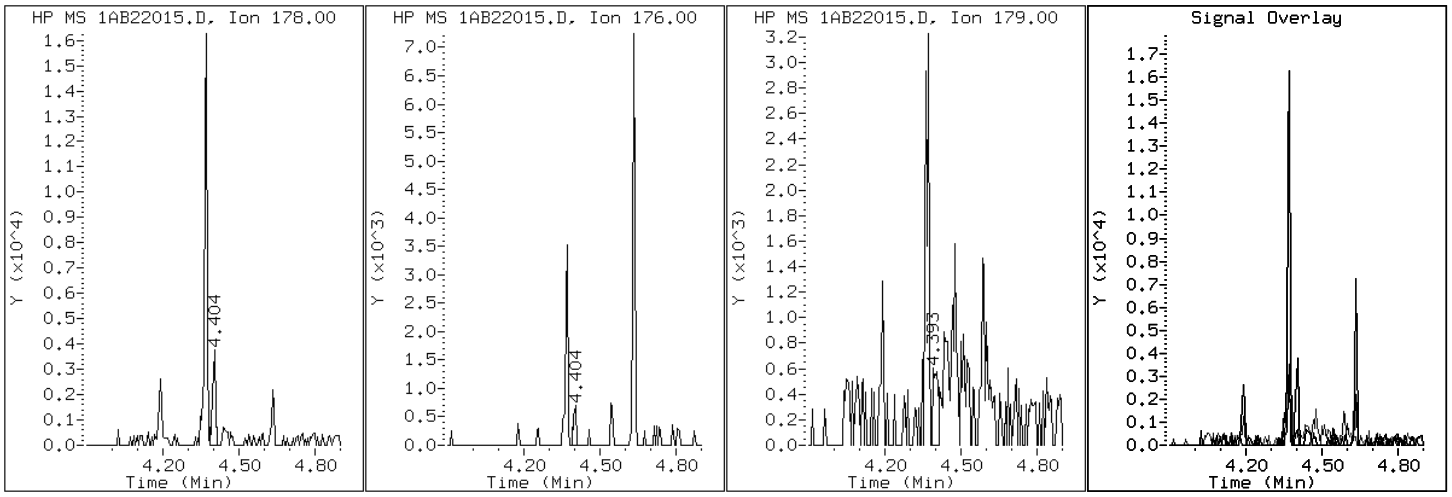
Client ID: FM0160F-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a

Operator: SCC

12 Anthracene



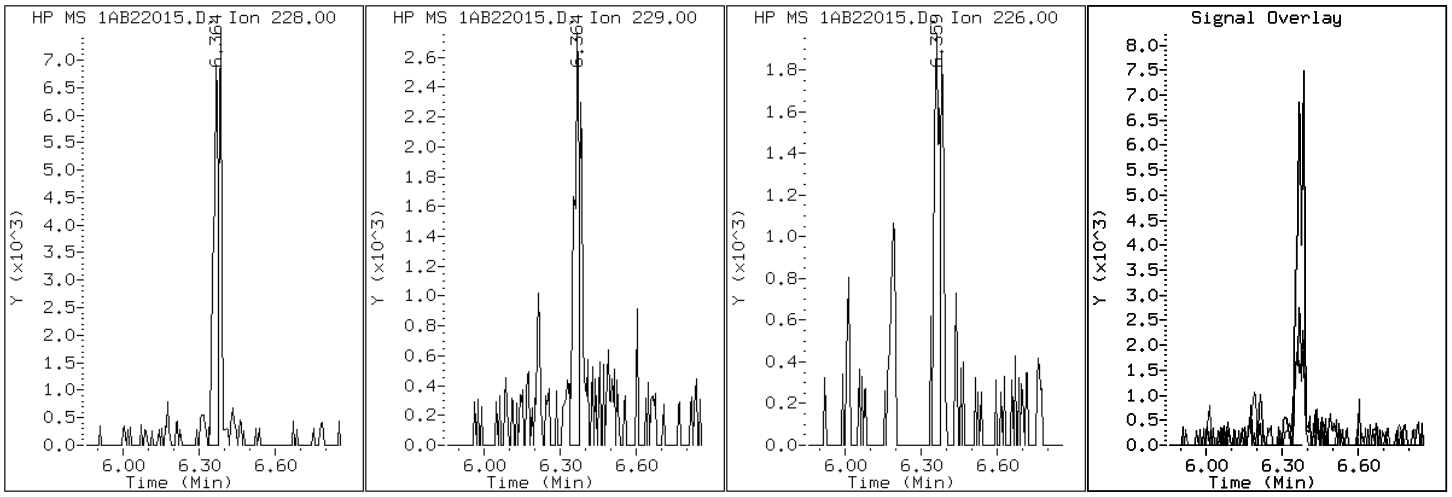
Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

Client ID: FM0160F-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a Operator: SCC

17 Benzo(a)anthracene



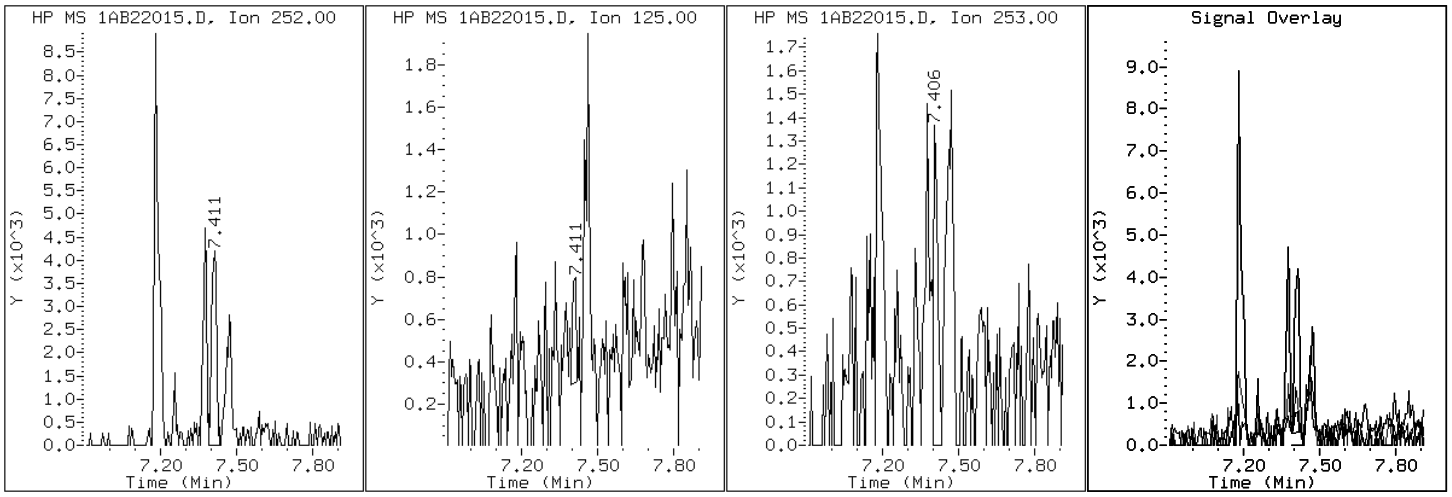
Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

Client ID: FM0160F-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a Operator: SCC

22 Benzo(a)pyrene



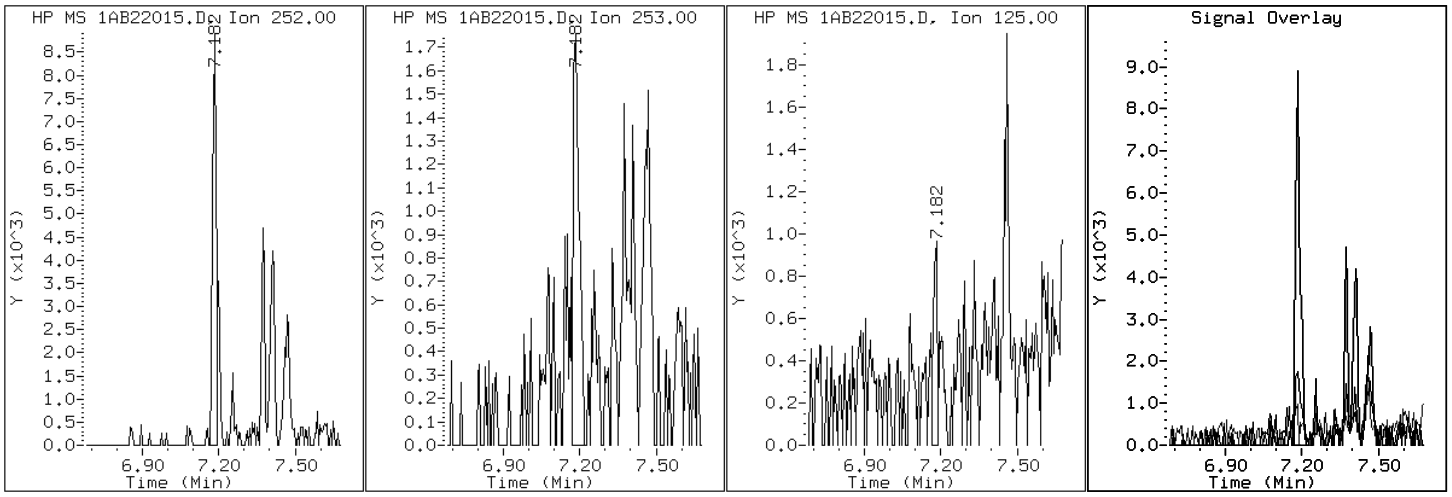
Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

Client ID: FM0160F-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a Operator: SCC

20 Benzo(b)fluoranthene



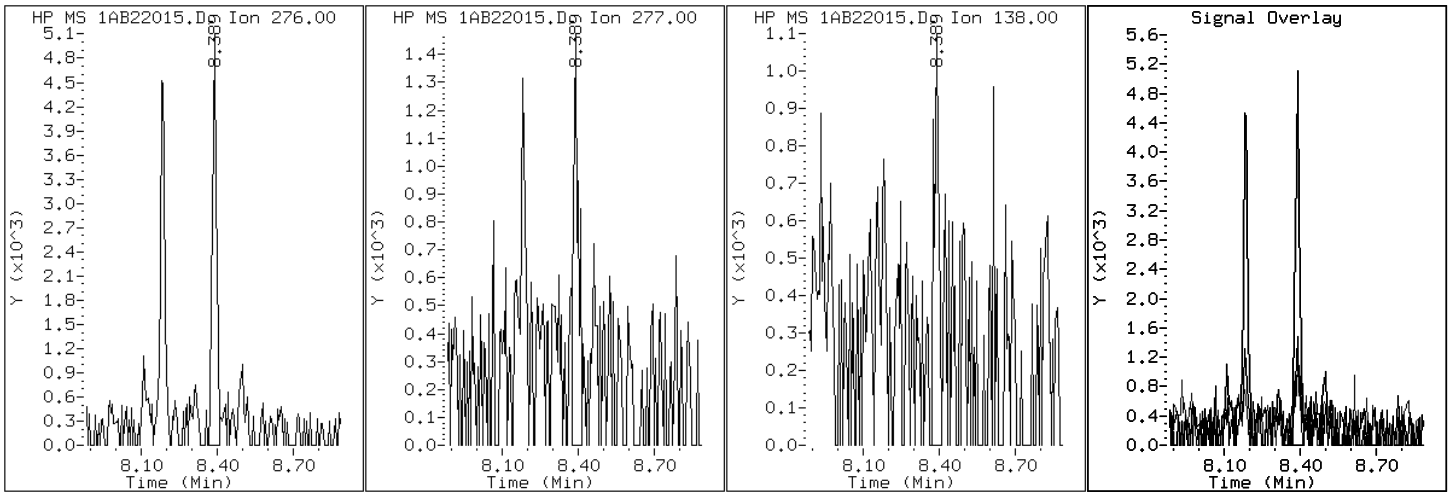
Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

Client ID: FM0160F-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a Operator: SCC

26 Benzo(g,h,i)perylene



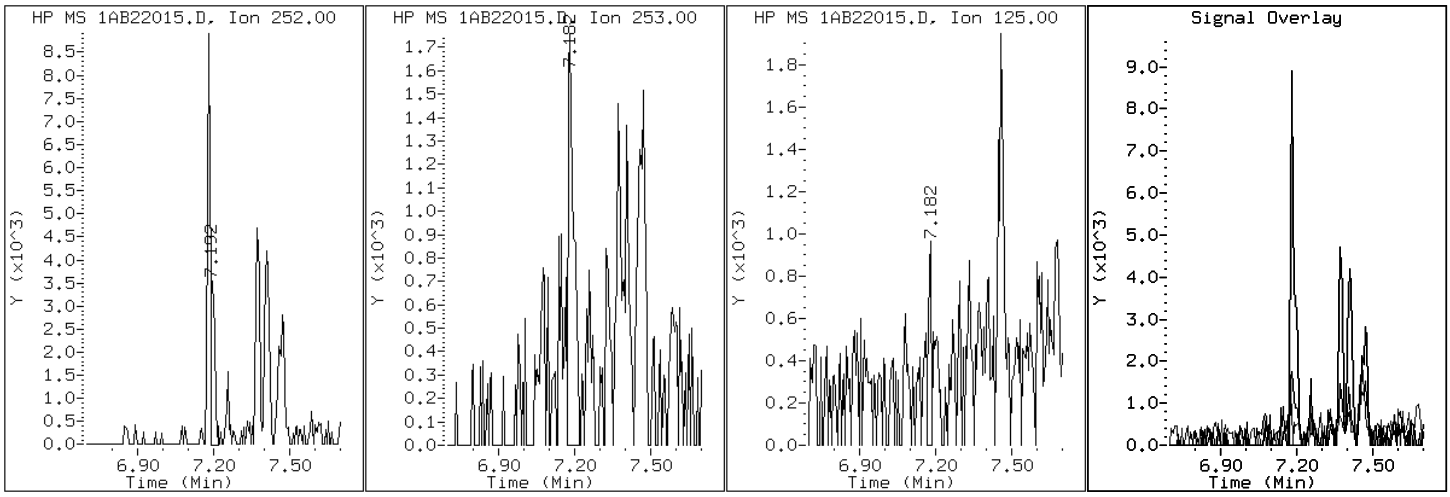
Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

Client ID: FM0160F-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

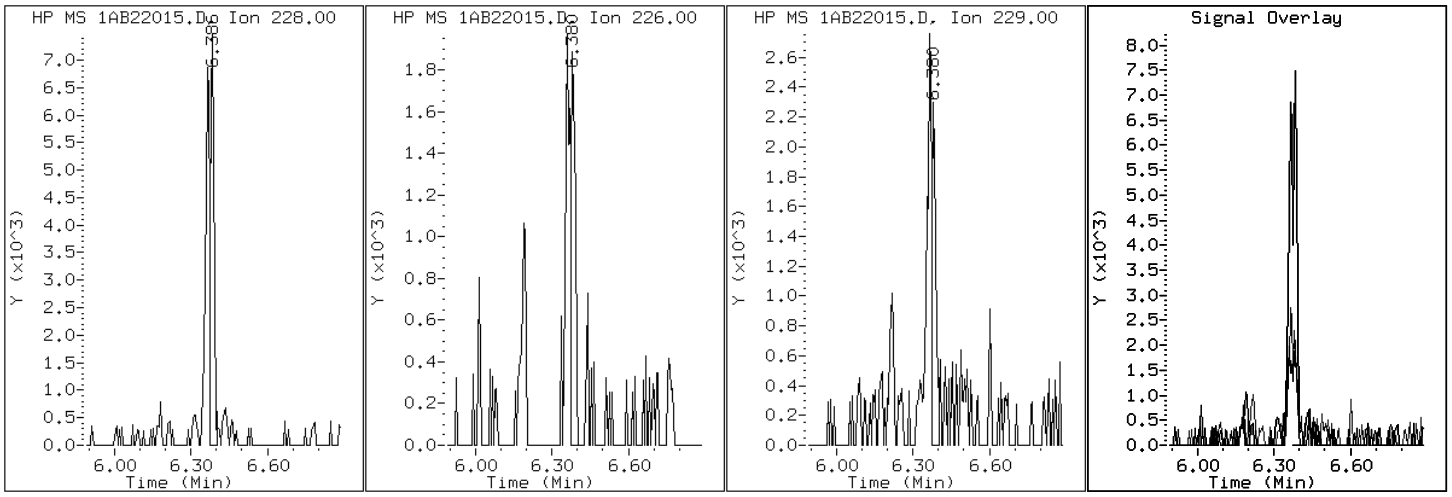
Client ID: FM0160F-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a

Operator: SCC

19 Chrysene



Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

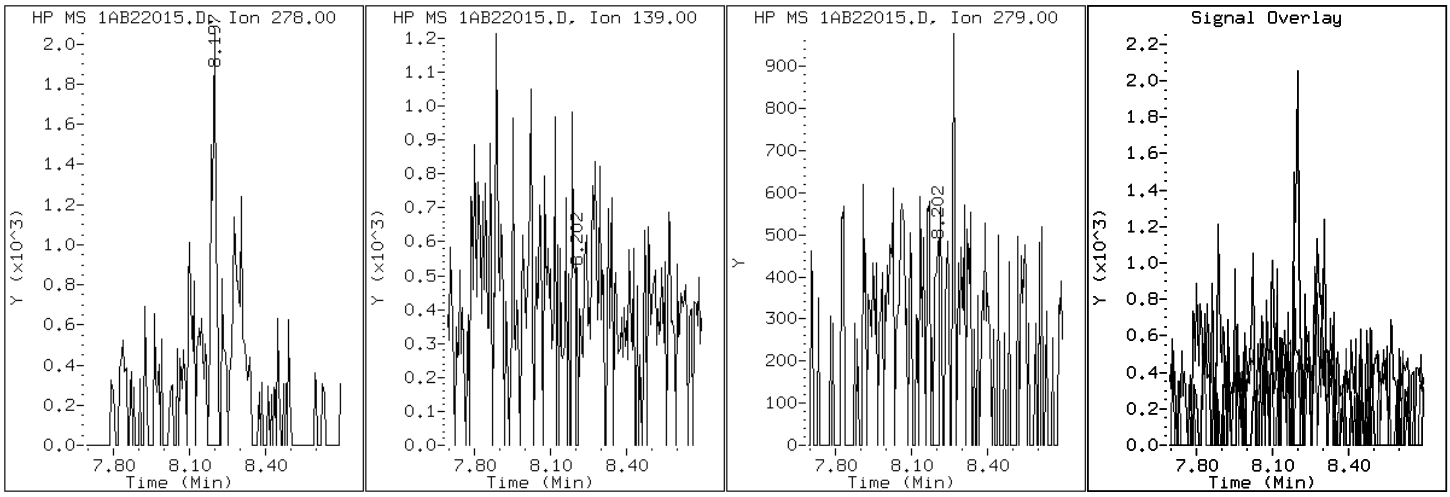
Client ID: FM0160F-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

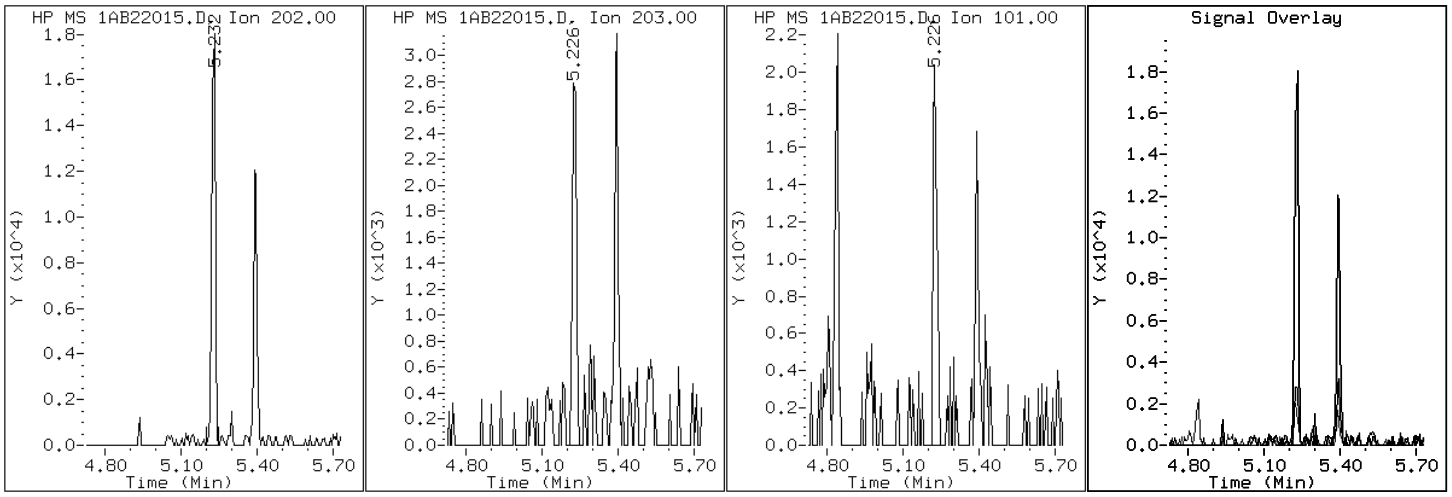
Client ID: FM0160F-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a

Operator: SCC

15 Fluoranthene



Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

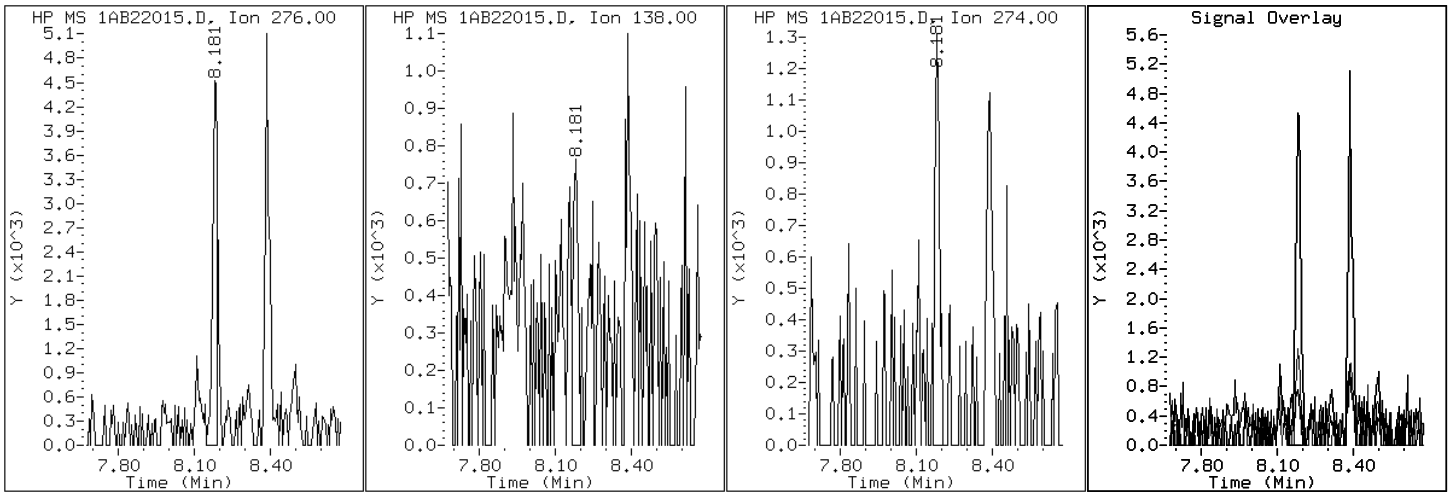
Client ID: FM0160F-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a

Operator: SCC

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



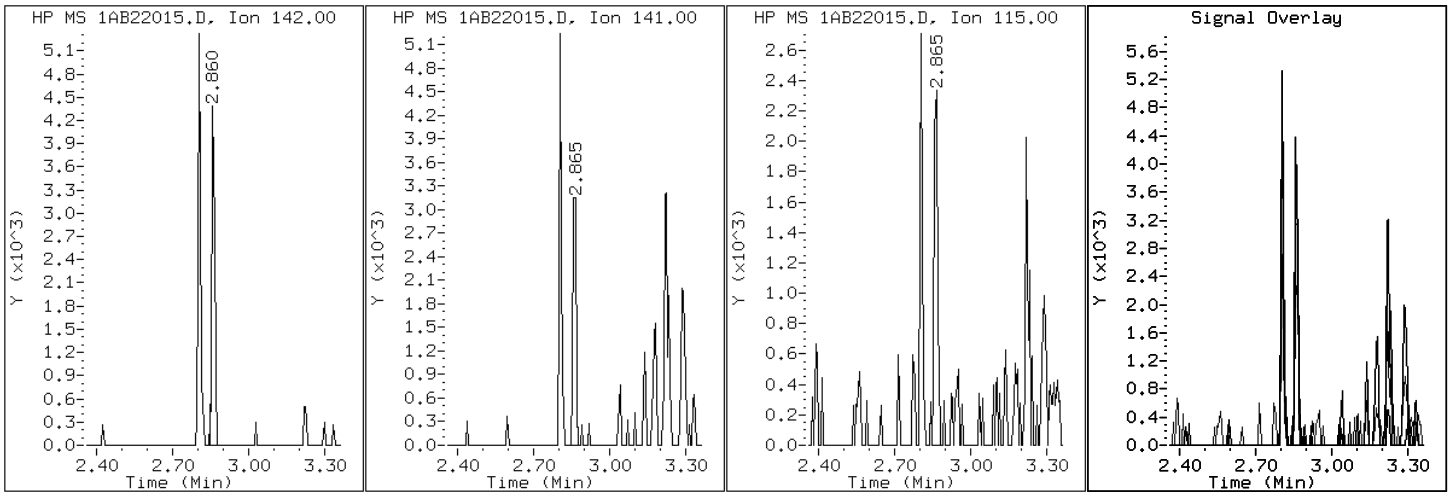
Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

Client ID: FM0160F-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a Operator: SCC

4 1-Methylnaphthalene



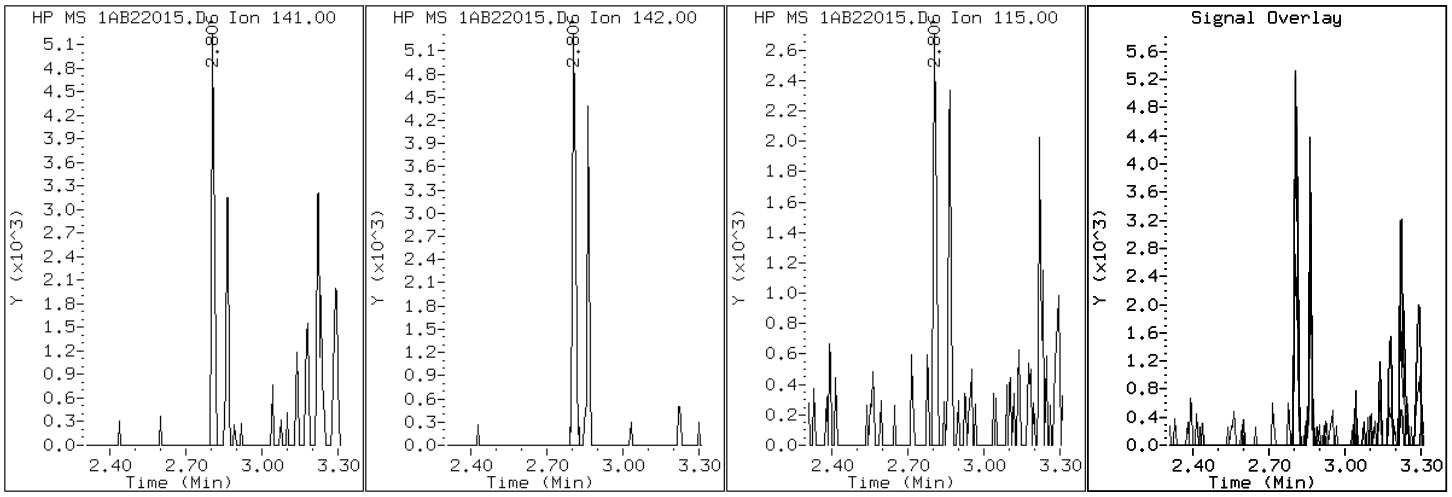
Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

Client ID: FM0160F-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

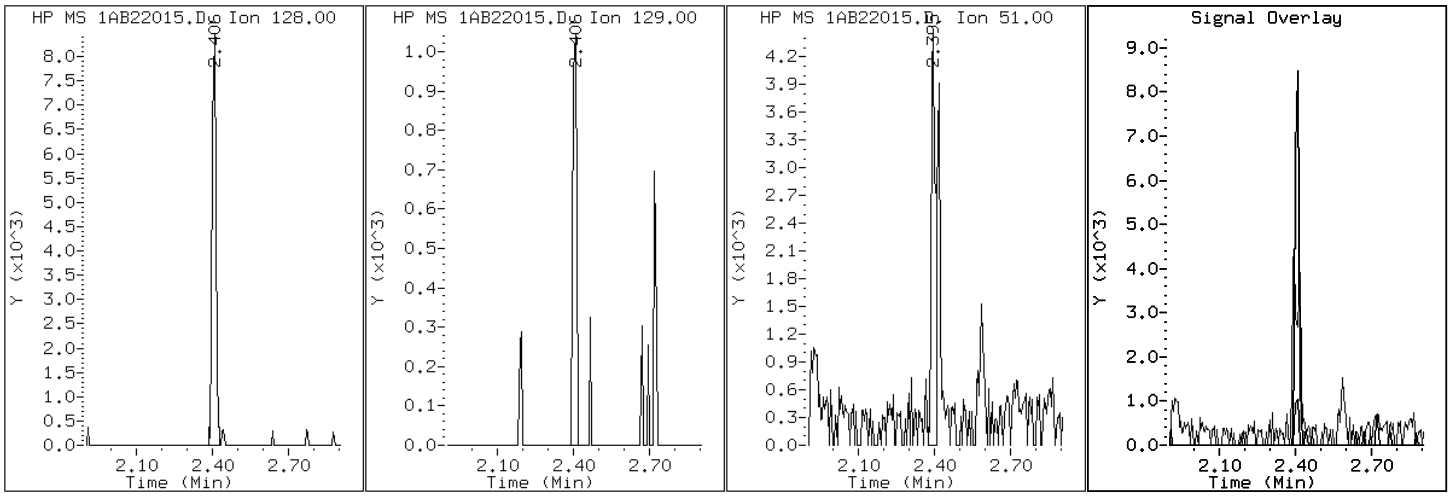
Client ID: FM0160F-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a

Operator: SCC

2 Naphthalene



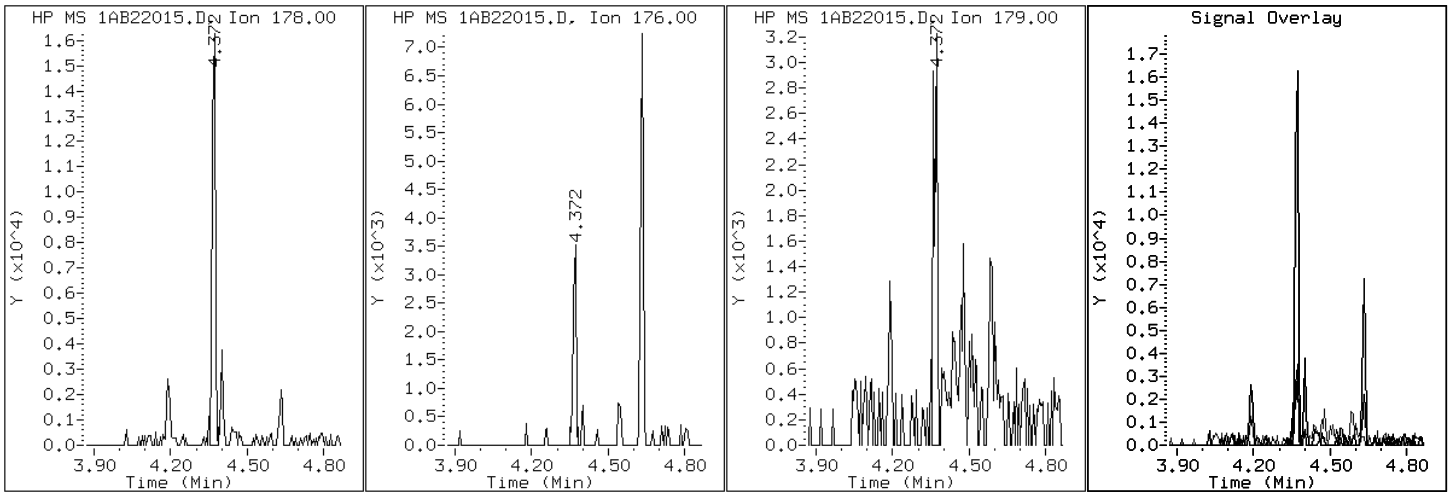
Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

Client ID: FM0160F-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a Operator: SCC

11 Phenanthrene



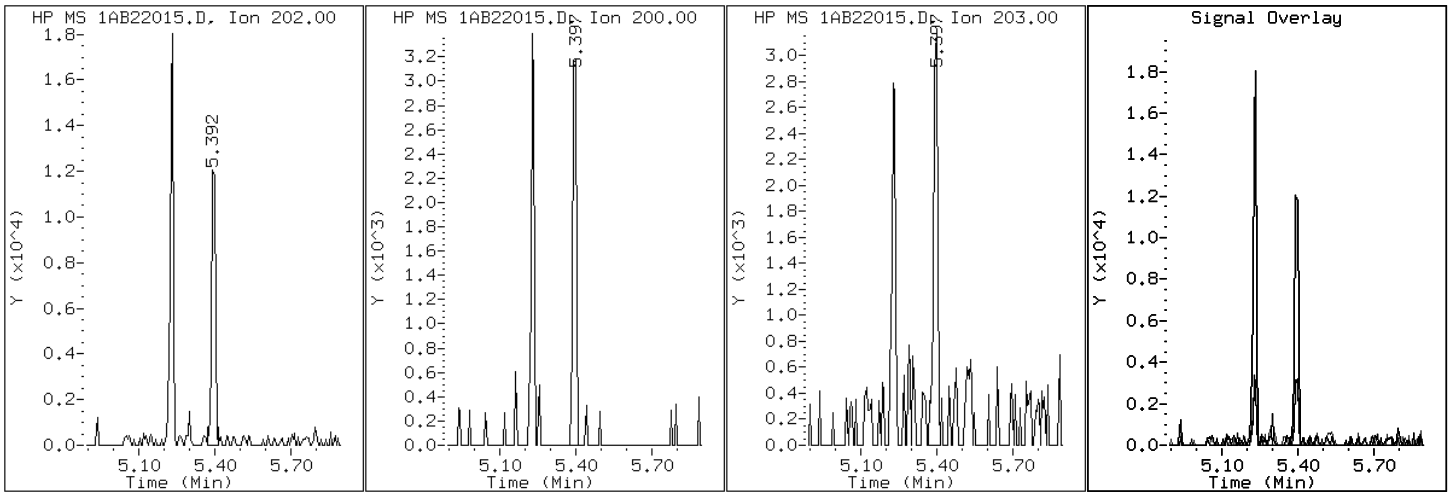
Data File: 1AB22015.D

Date: 22-FEB-2013 14:08

Client ID: FM0160F-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-55-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22015.D
Inj. Date and Time: 22-FEB-2013 14:08
Instrument ID: BSMA5973.i
Client ID: FM0160F-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

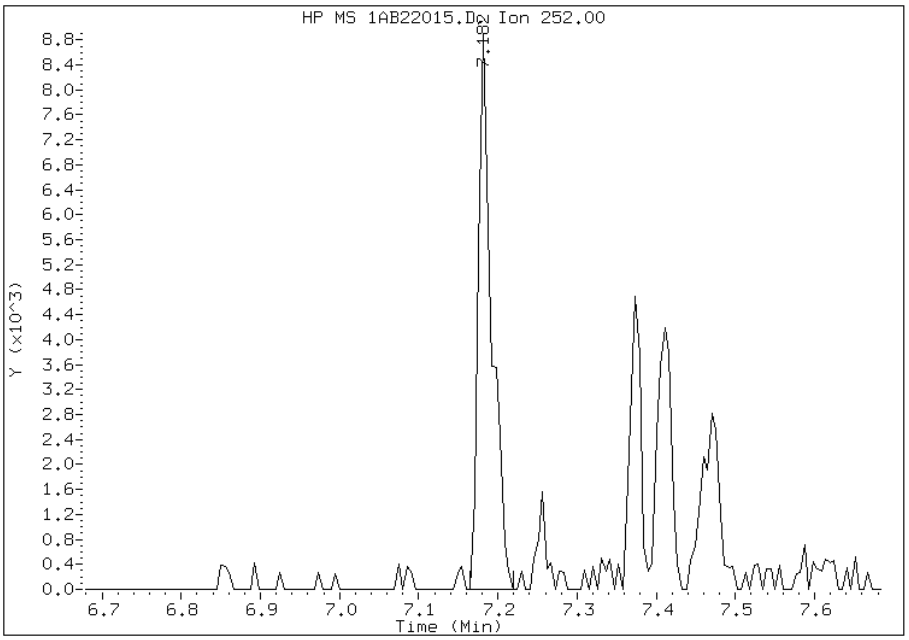
Processing Integration Results

RT: 7.18

Response: 10331

Amount: 1

Conc: 45



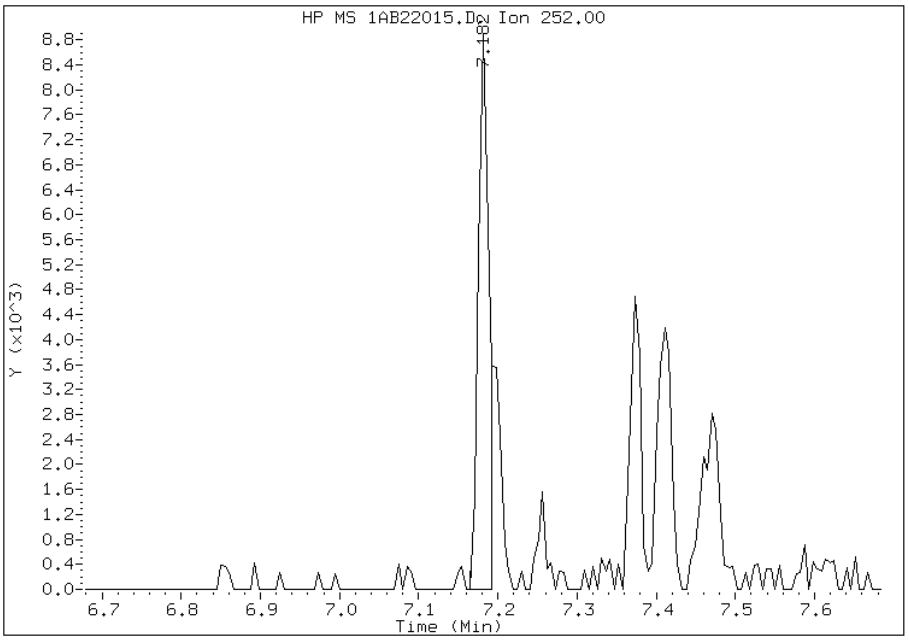
Manual Integration Results

RT: 7.18

Response: 8072

Amount: 0

Conc: 35



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:19
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22015.D
Inj. Date and Time: 22-FEB-2013 14:08
Instrument ID: BSMA5973.i
Client ID: FM0160F-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

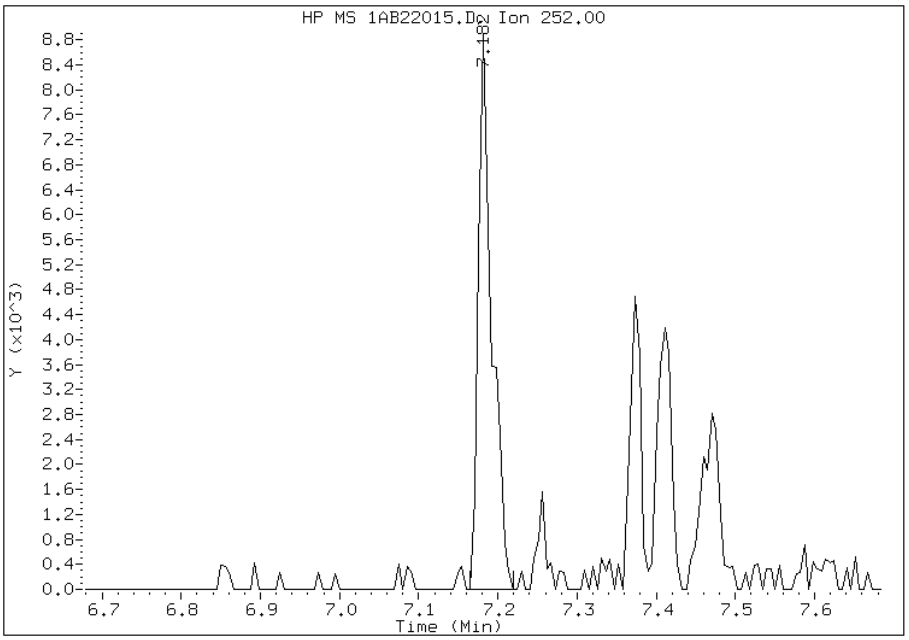
Processing Integration Results

RT: 7.18

Response: 10331

Amount: 1

Conc: 45



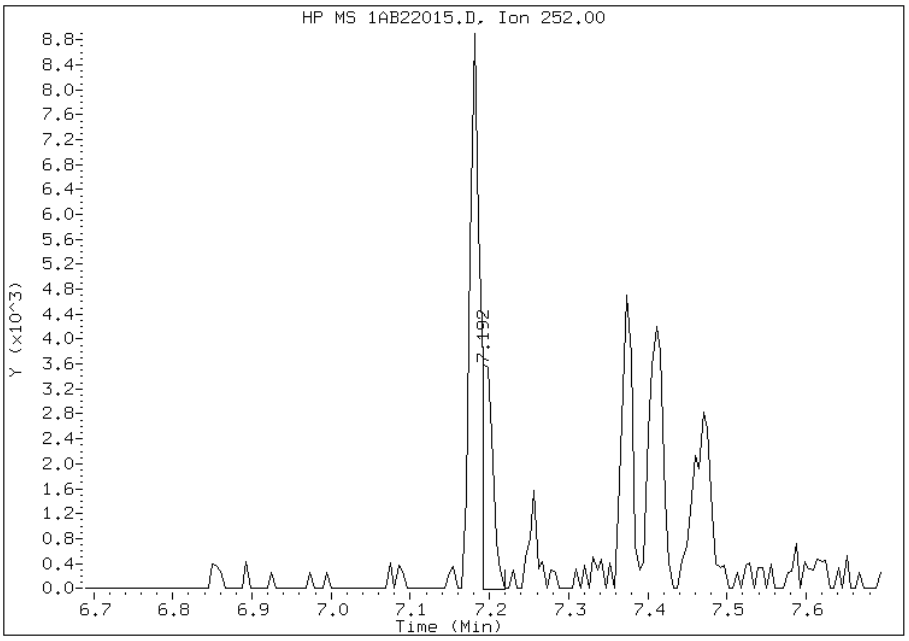
Manual Integration Results

RT: 7.19

Response: 3434

Amount: 0

Conc: 15



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22015.D
Inj. Date and Time: 22-FEB-2013 14:08
Instrument ID: BSMA5973.i
Client ID: FM0160F-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

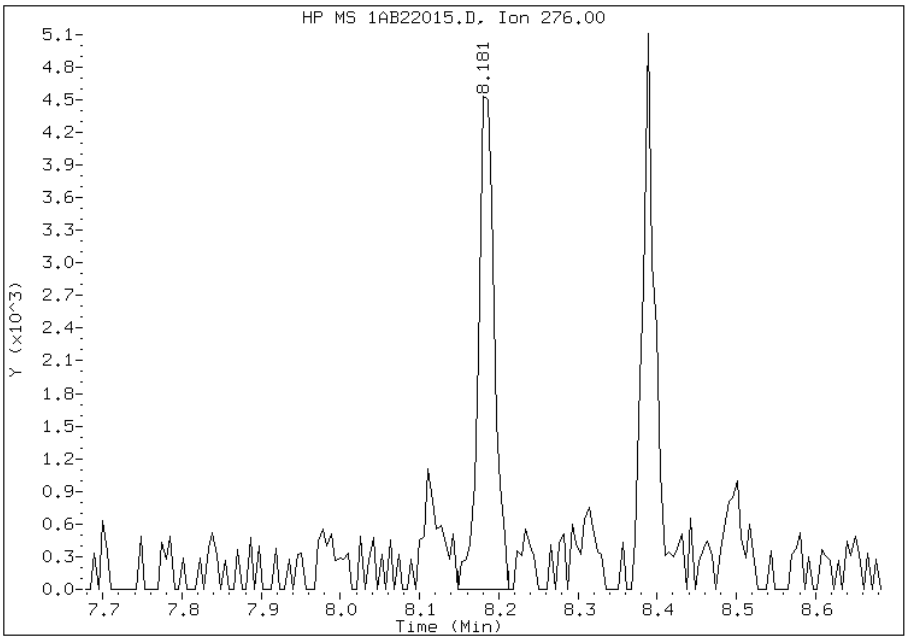
Processing Integration Results

RT: 8.18

Response: 6302

Amount: 0

Conc: 35



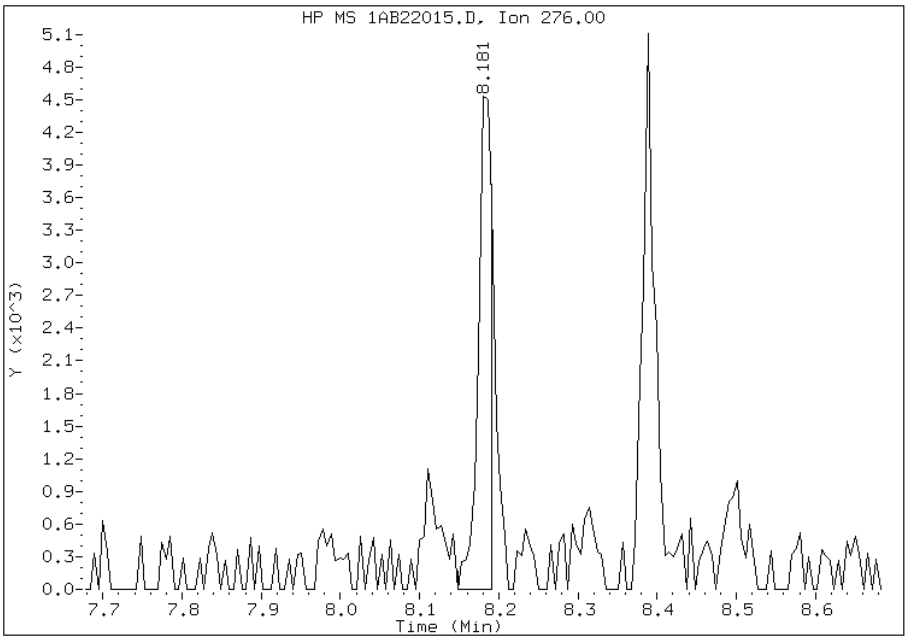
Manual Integration Results

RT: 8.18

Response: 5344

Amount: 0

Conc: 30



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:20
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: FM0160F-CSD | Lab Sample ID: 680-87496-56

Matrix: Solid | Lab File ID: 1AB22016.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 15:48

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.17(g) | Date Analyzed: 02/22/2013 14:24

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

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

% Moisture: 5.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	10	J	42	5.2
120-12-7	Anthracene	19		8.8	4.4
56-55-3	Benzo[a]anthracene	71		8.4	4.1
50-32-8	Benzo[a]pyrene	45		11	5.5
205-99-2	Benzo[b]fluoranthene	75		13	6.4
191-24-2	Benzo[g,h,i]perylene	57		21	4.6
207-08-9	Benzo[k]fluoranthene	25		8.4	3.8
218-01-9	Chrysene	87		9.4	4.7
53-70-3	Dibenz(a,h)anthracene	22		21	4.3
206-44-0	Fluoranthene	77		21	4.2
86-73-7	Fluorene	5.8	J	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	43		21	7.4
90-12-0	1-Methylnaphthalene	41	J	42	4.6
91-57-6	2-Methylnaphthalene	51		42	7.4
91-20-3	Naphthalene	51		42	4.6
85-01-8	Phenanthrene	82		8.4	4.1
129-00-0	Pyrene	98		21	3.9

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\BSMA5973.i\1A022213_IC.b\1AB22016.D
Lab Smp Id: 680-87496-A-56-A Client Smp ID: FM0160F-CSD
Inj Date : 22-FEB-2013 14:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-56-a
Misc Info : 680-87496-A-56-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 16
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	15.170	Weight Extracted
M	5.704	% 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	2.399	2.397	(1.000)	1006536	40.0000	
* 6 Acenaphthene-d10	164	3.419	3.417	(1.000)	746586	40.0000	
* 10 Phenanthrene-d10	188	4.359	4.352	(1.000)	1074962	40.0000	
$ 14 o-Terphenyl	230	4.637	4.635	(1.064)	115087	7.35765	514.3520
* 18 Chrysene-d12	240	6.373	6.366	(1.000)	584170	40.0000	
* 23 Perylene-d12	264	7.468	7.456	(1.000)	829838	40.0000	
2 Naphthalene	128	2.404	2.402	(1.002)	17704	0.72995	51.0286
3 2-Methylnaphthalene	141	2.805	2.808	(1.169)	9169	0.73231	51.1935
4 1-Methylnaphthalene	142	2.863	2.861	(1.194)	8260	0.59243	41.4149
5 Acenaphthylene	152	3.333	3.332	(0.975)	4015	0.14403	10.0686
9 Fluorene	166	3.745	3.743	(1.095)	1691	0.08318	5.8147(Q)
11 Phenanthrene	178	4.370	4.368	(1.002)	31416	1.17575	82.1934
12 Anthracene	178	4.402	4.400	(1.010)	7223	0.27830	19.4548
13 Carbazole	167	4.557	4.555	(1.045)	3108	0.13565	9.4830

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.230	5.228	(1.200)	29586	1.10742	77.4165
16 Pyrene	202	5.395	5.394	(0.847)	23940	1.39718	97.6728
17 Benzo(a)anthracene	228	6.362	6.355	(0.998)	17715	1.01560	70.9978
19 Chrysene	228	6.384	6.387	(1.002)	19358	1.24089	86.7471
20 Benzo(b)fluoranthene	252	7.185	7.178	(0.962)	22441	1.06677	74.5750(M)
21 Benzo(k)fluoranthene	252	7.196	7.199	(0.964)	7541	0.35632	24.9089(M)
22 Benzo(a)pyrene	252	7.409	7.408	(0.992)	12406	0.64397	45.0182
24 Indeno(1,2,3-cd)pyrene	276	8.189	8.177	(1.097)	10100	0.61110	42.7203(M)
25 Dibenzo(a,h)anthracene	278	8.200	8.193	(1.098)	5345	0.31034	21.6949
26 Benzo(g,h,i)perylene	276	8.398	8.385	(1.124)	14355	0.81661	57.0865(M)

QC Flag Legend

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

Data File: 1AB22016.D

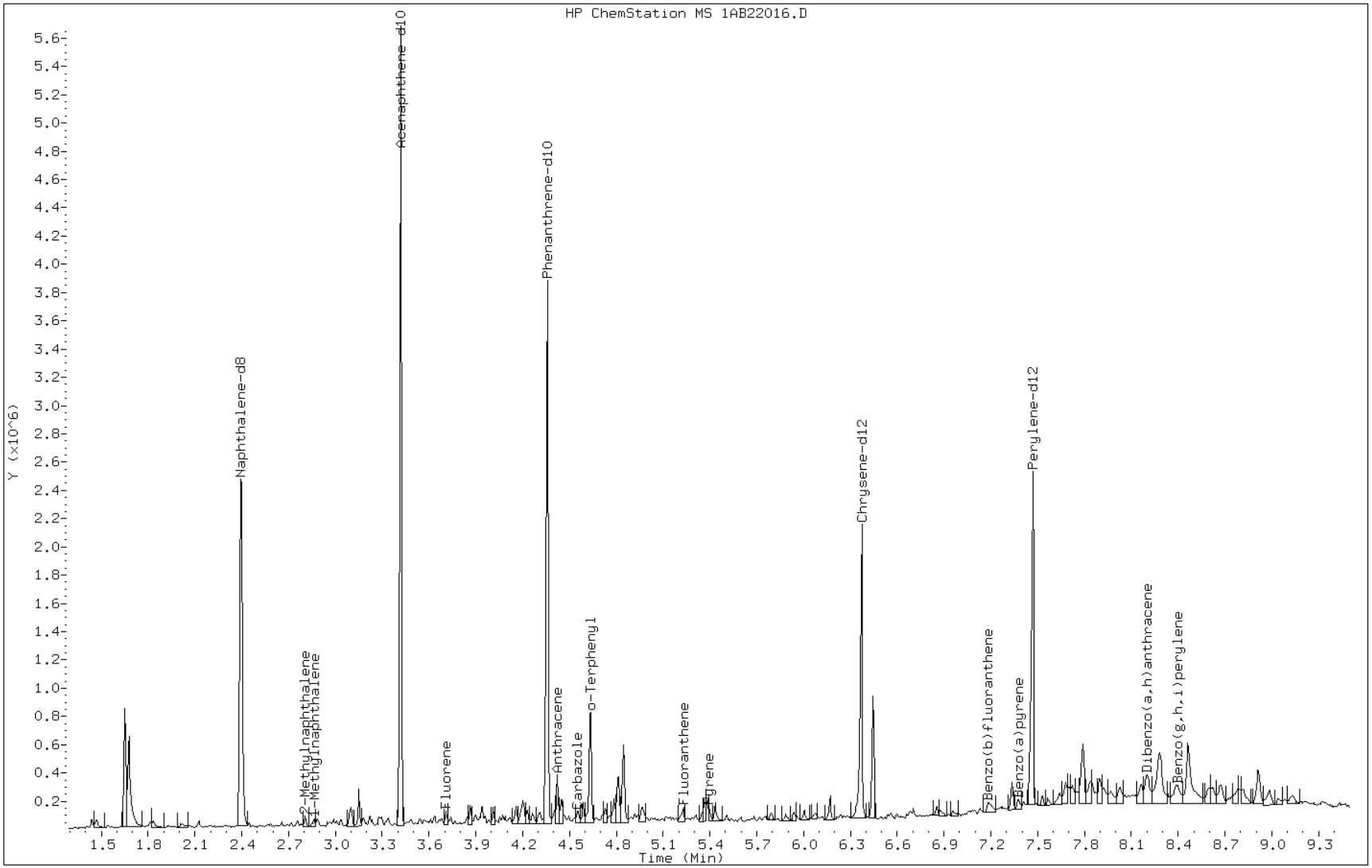
Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD

Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a

Operator: SCC



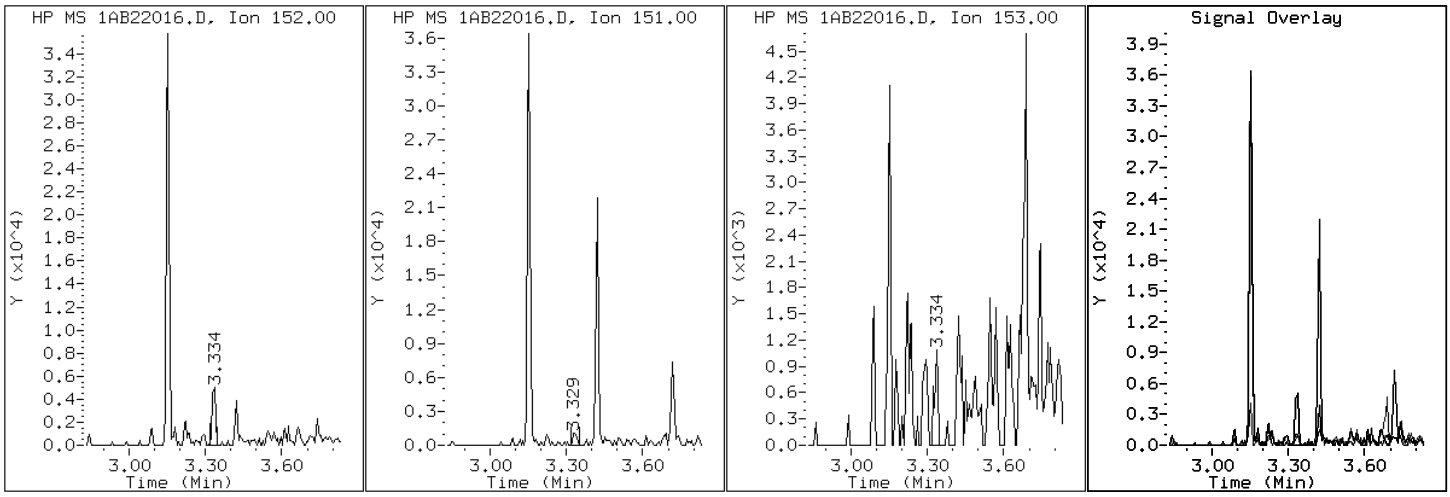
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD | Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a | Operator: SCC

5 Acenaphthylene



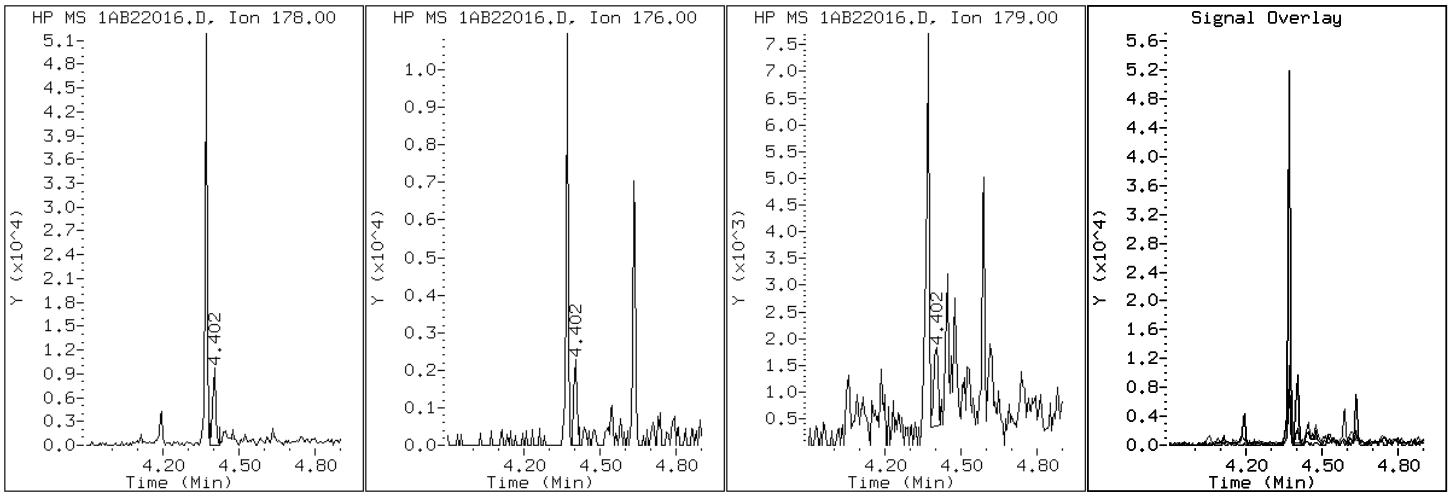
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

12 Anthracene



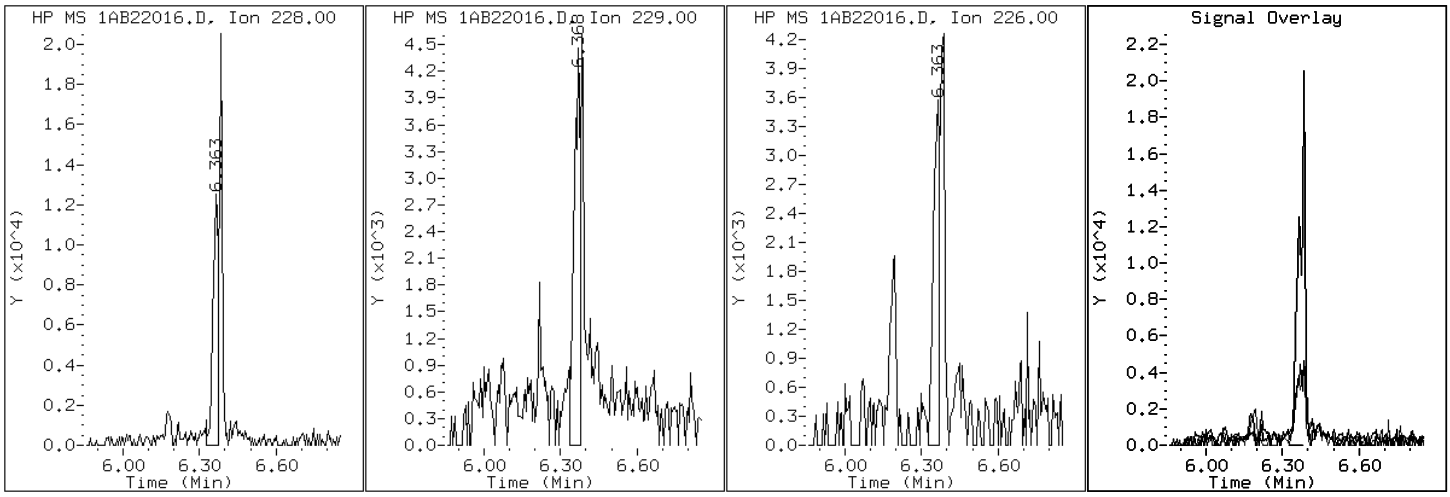
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

17 Benzo(a)anthracene



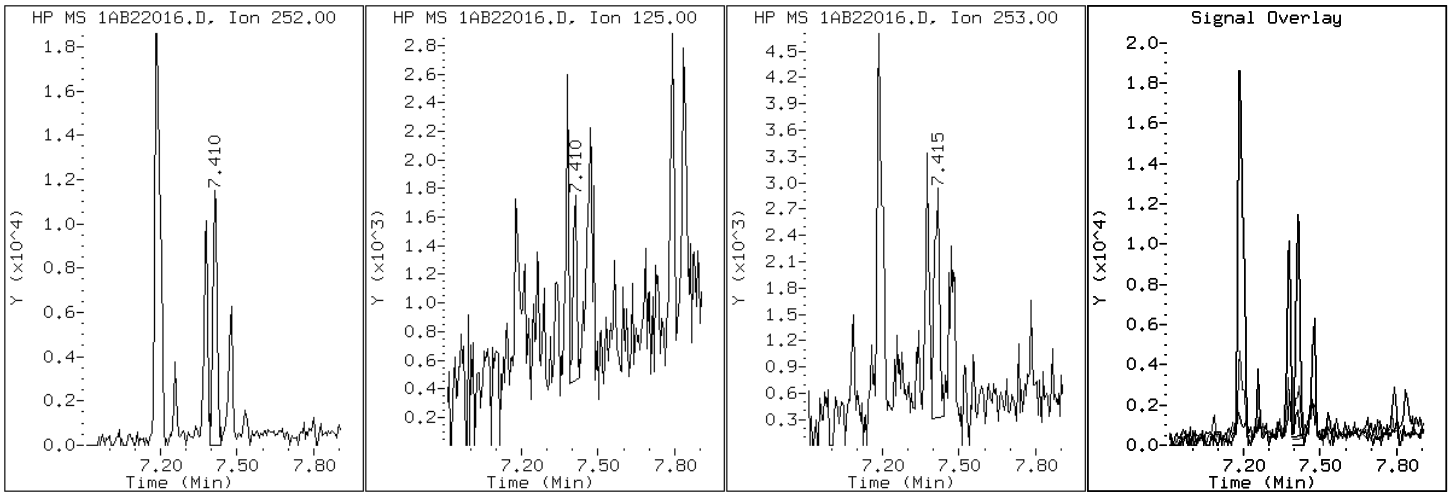
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

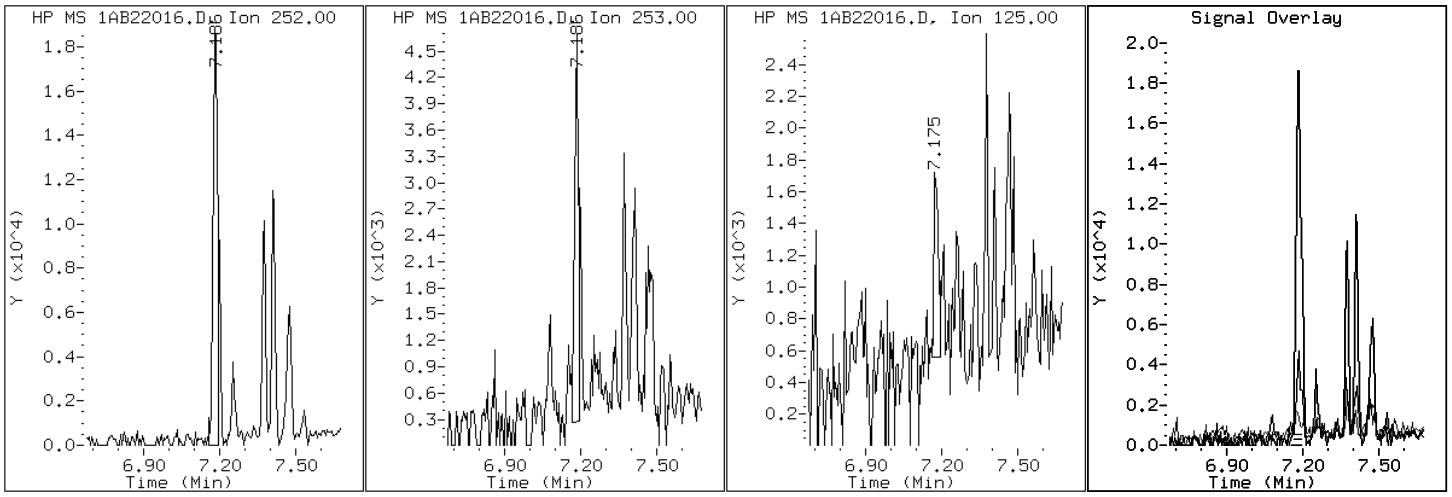
Client ID: FM0160F-CSD

Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a

Operator: SCC

20 Benzo(b)fluoranthene



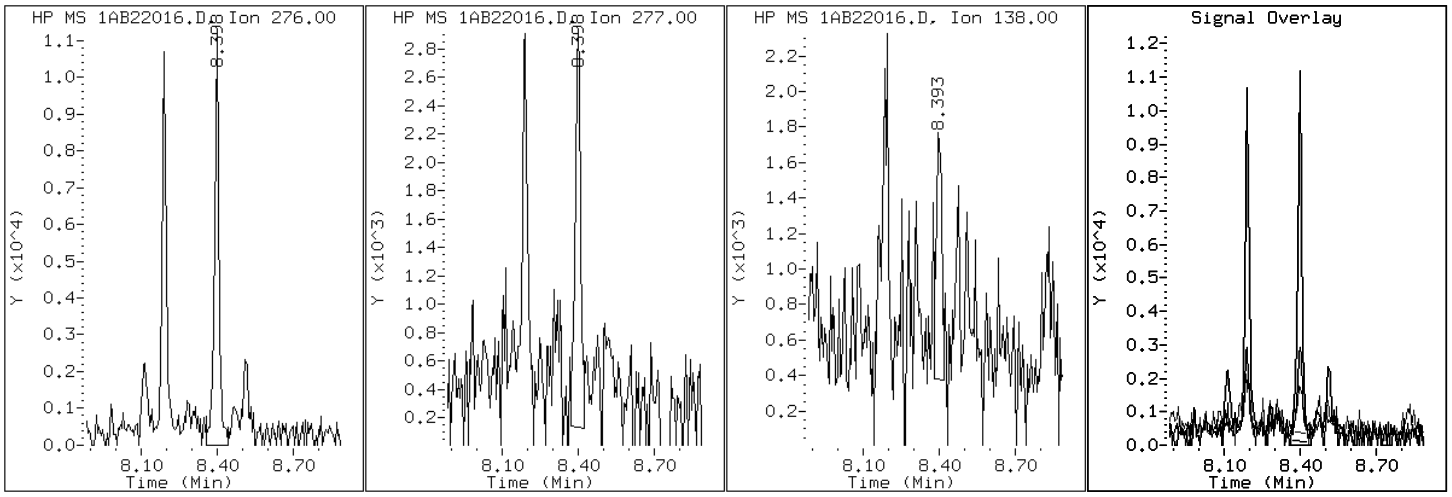
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

26 Benzo(g,h,i)perylene



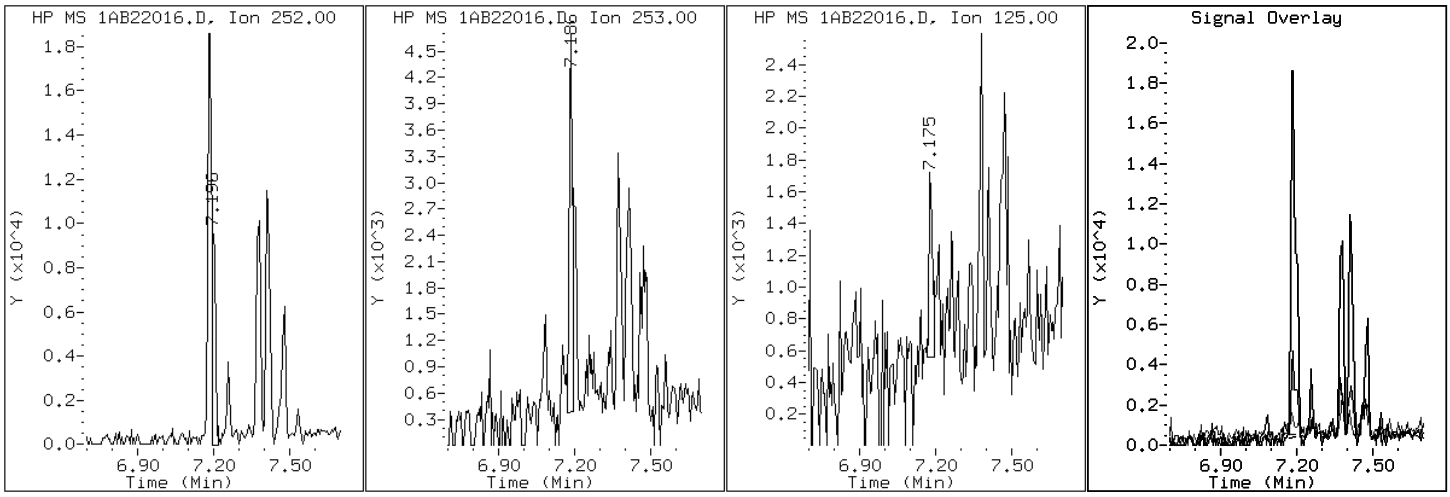
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

21 Benzo(k)fluoranthene



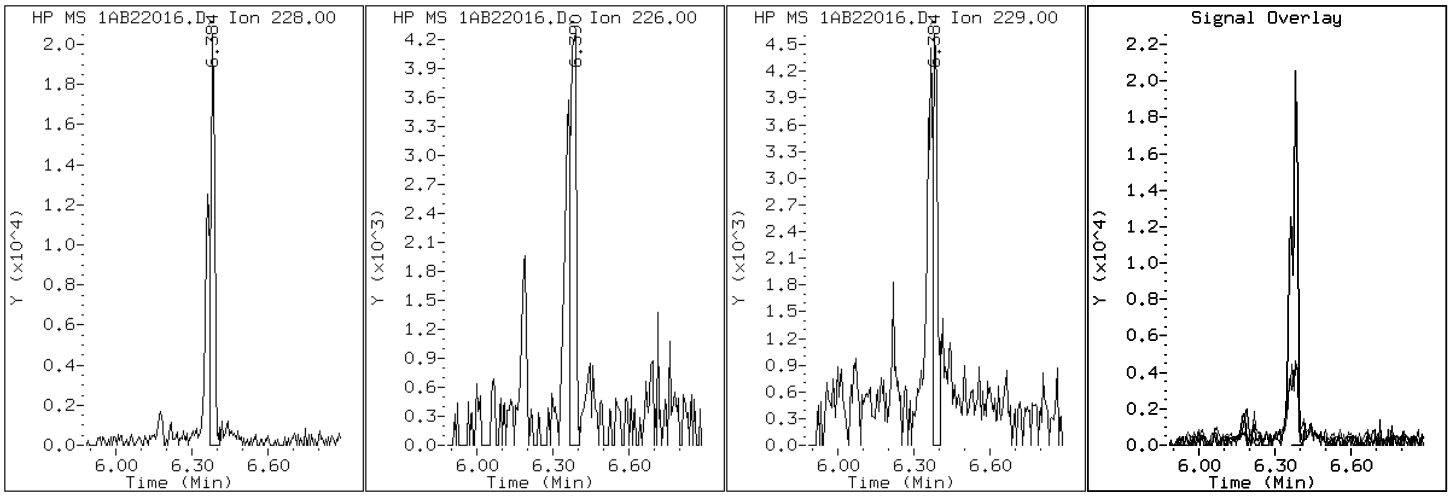
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

19 Chrysene



Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

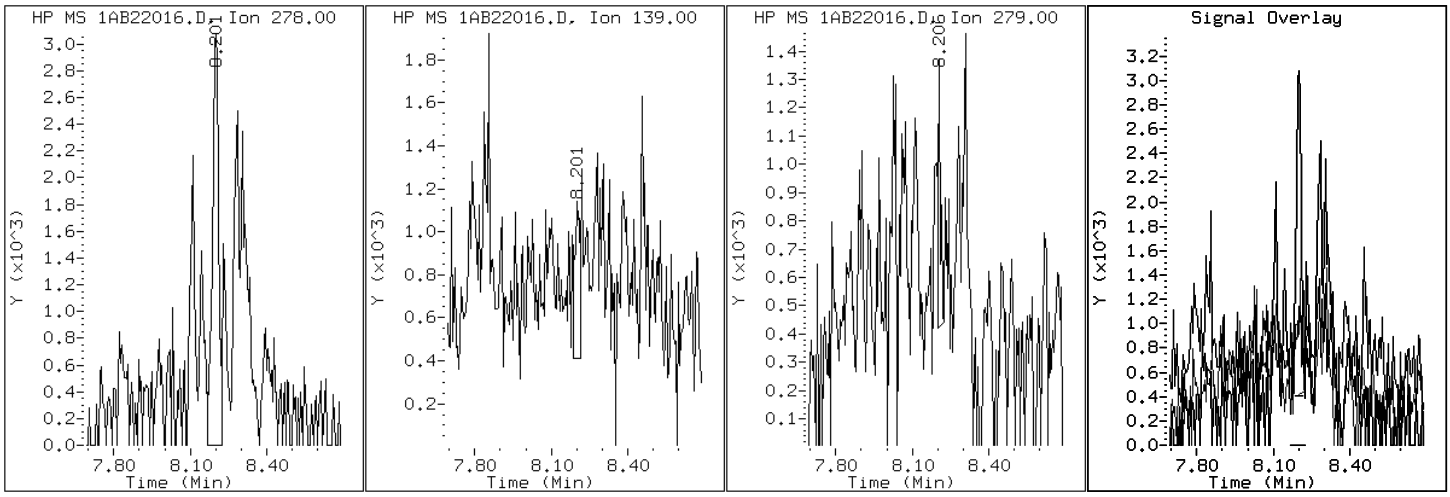
Client ID: FM0160F-CSD

Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a

Operator: SCC

25 Dibenzo(a,h)anthracene



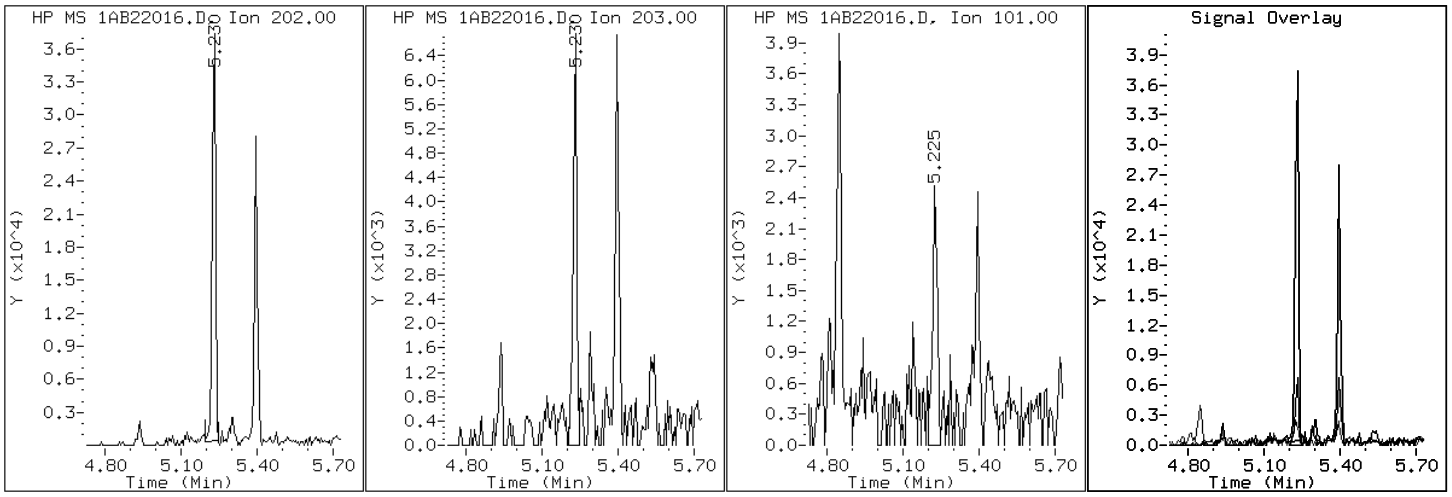
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

15 Fluoranthene



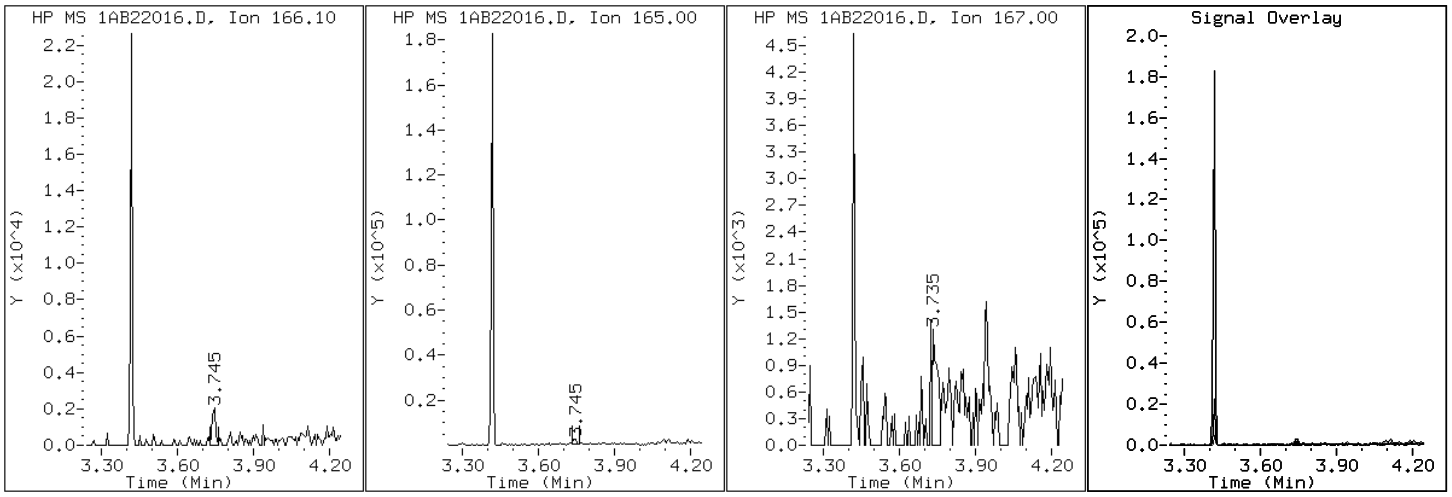
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

9 Fluorene



Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

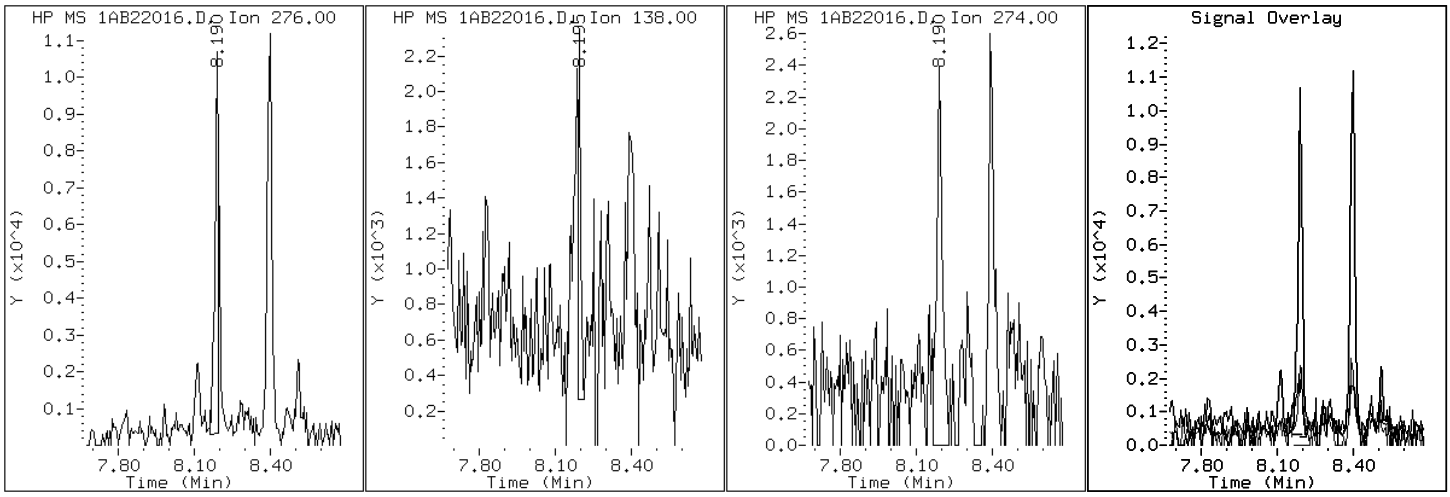
Client ID: FM0160F-CSD

Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a

Operator: SCC

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



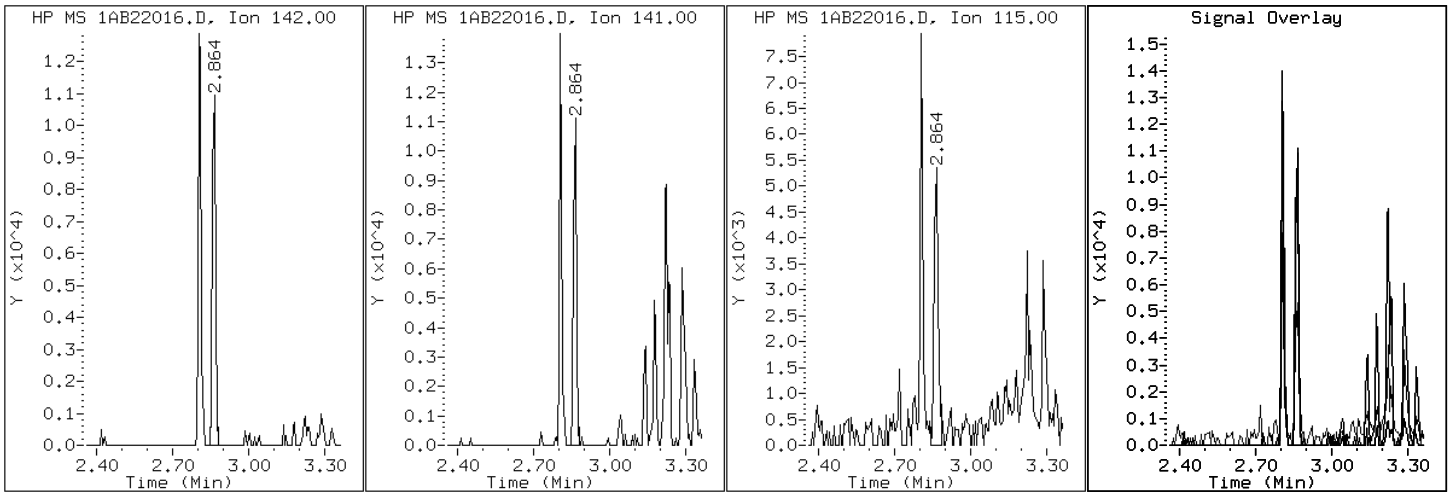
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

4 1-Methylnaphthalene



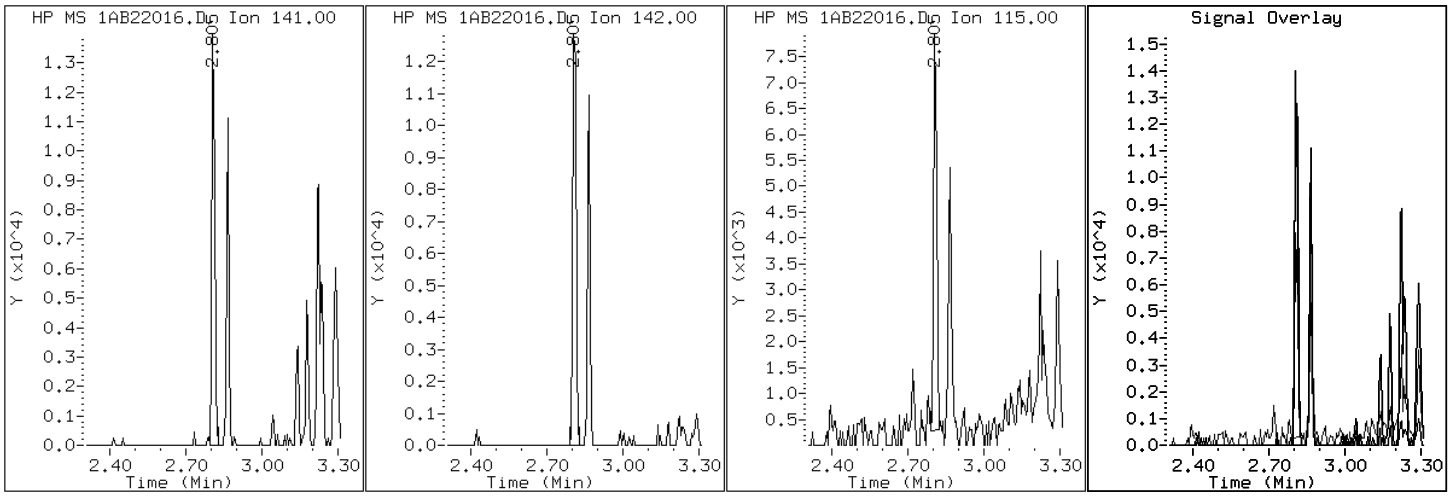
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

3 2-Methylnaphthalene



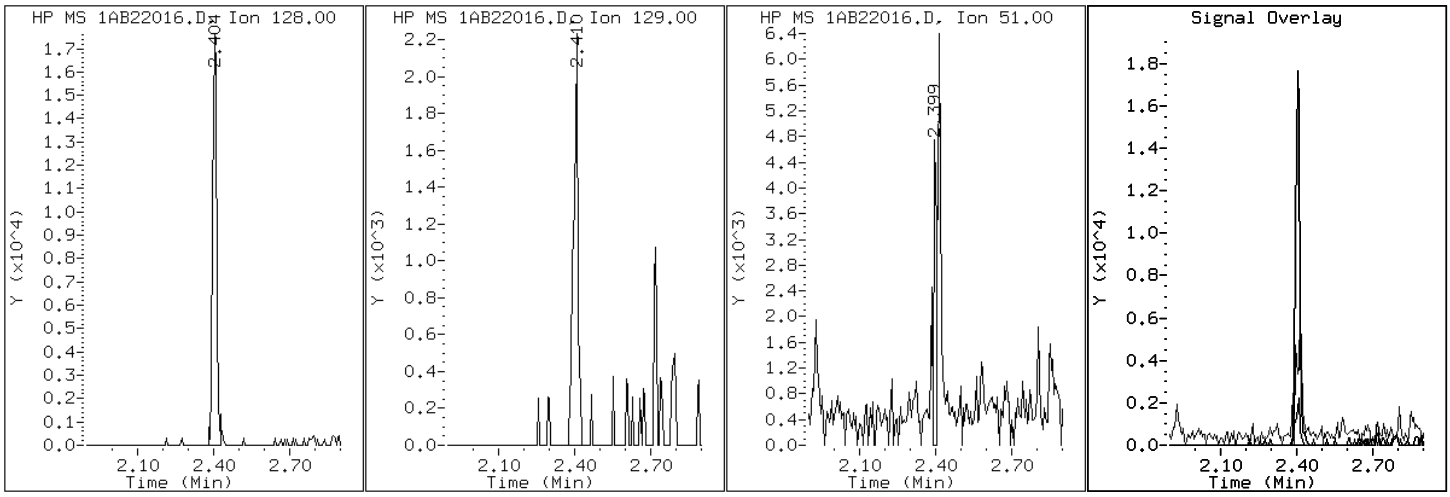
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

2 Naphthalene



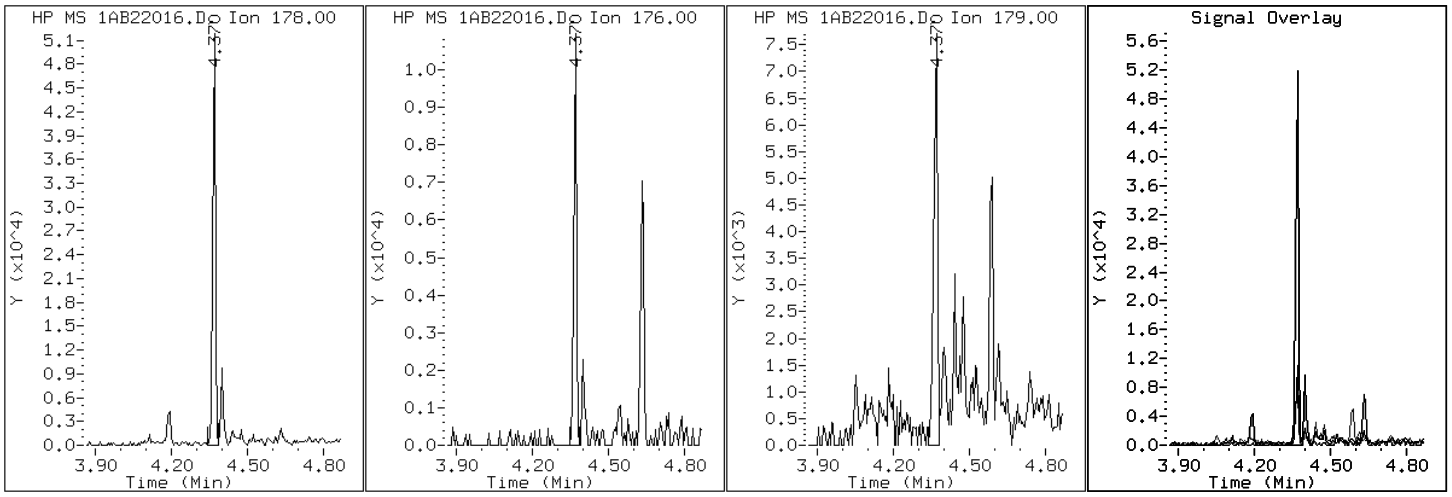
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

11 Phenanthrene



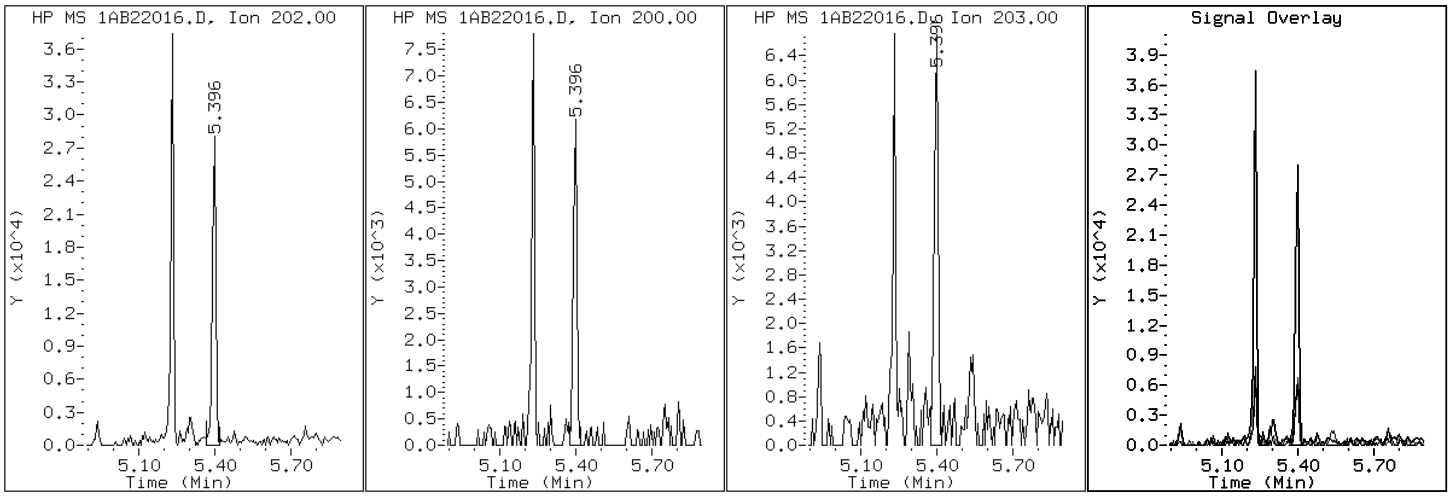
Data File: 1AB22016.D

Date: 22-FEB-2013 14:24

Client ID: FM0160F-CSD Instrument: BSMA5973.i

Sample Info: 680-87496-a-56-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22016.D
Inj. Date and Time: 22-FEB-2013 14:24
Instrument ID: BSMA5973.i
Client ID: FM0160F-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

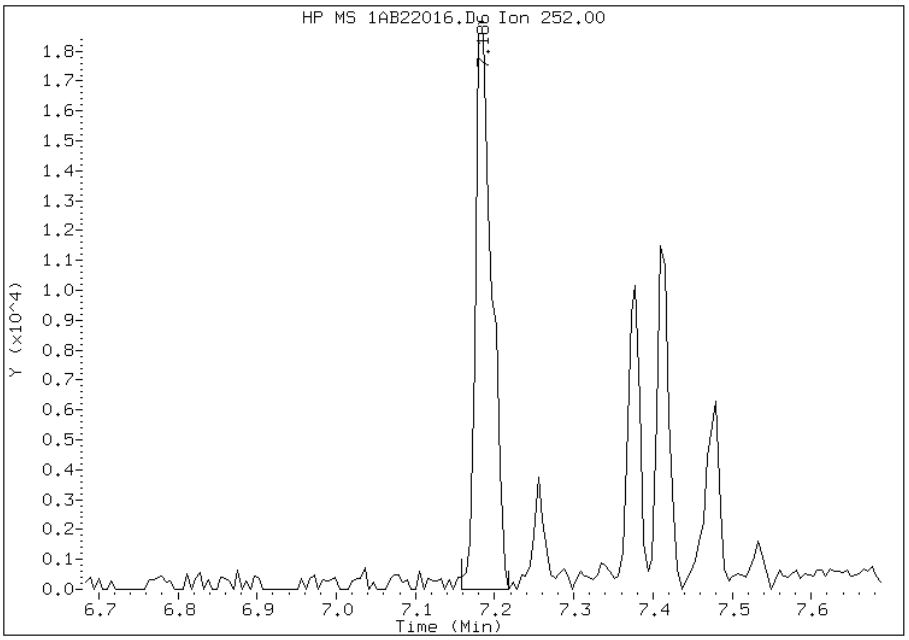
Processing Integration Results

RT: 7.19

Response: 26793

Amount: 1

Conc: 89



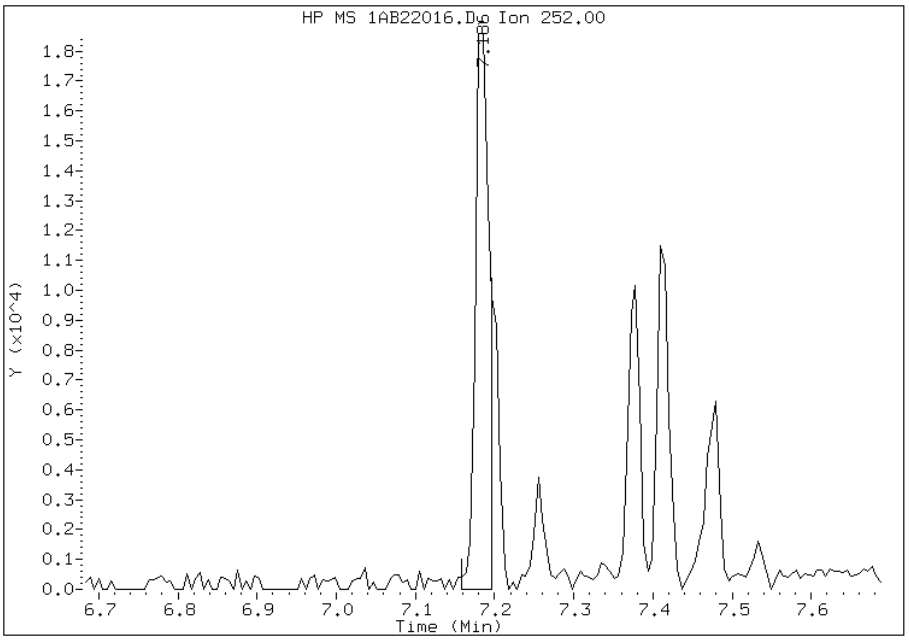
Manual Integration Results

RT: 7.19

Response: 22441

Amount: 1

Conc: 75



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22016.D
Inj. Date and Time: 22-FEB-2013 14:24
Instrument ID: BSMA5973.i
Client ID: FM0160F-CSD
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/25/2013

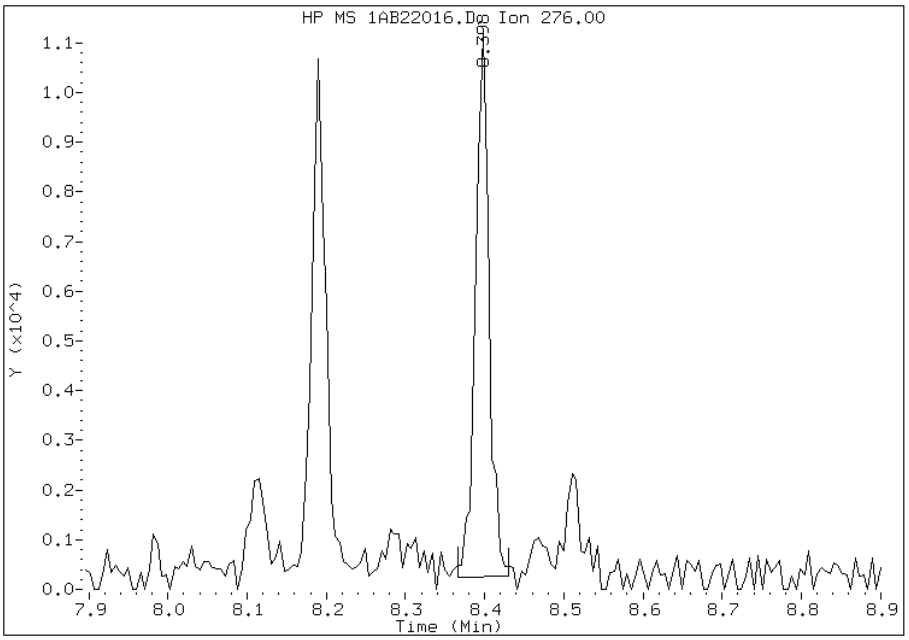
Processing Integration Results

RT: 8.40

Response: 12914

Amount: 1

Conc: 51



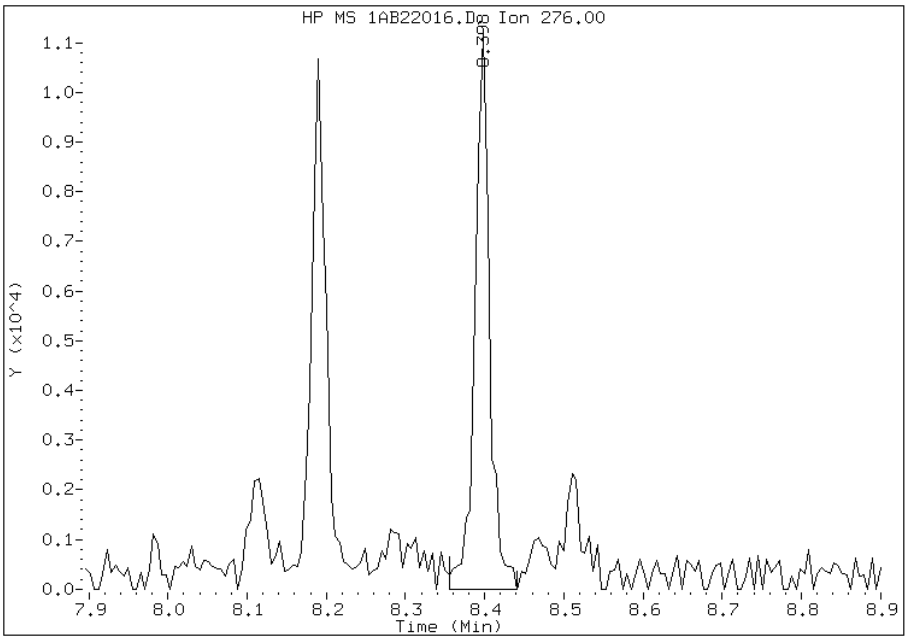
Manual Integration Results

RT: 8.40

Response: 14355

Amount: 1

Conc: 57



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22016.D
Inj. Date and Time: 22-FEB-2013 14:24
Instrument ID: BSMA5973.i
Client ID: FM0160F-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

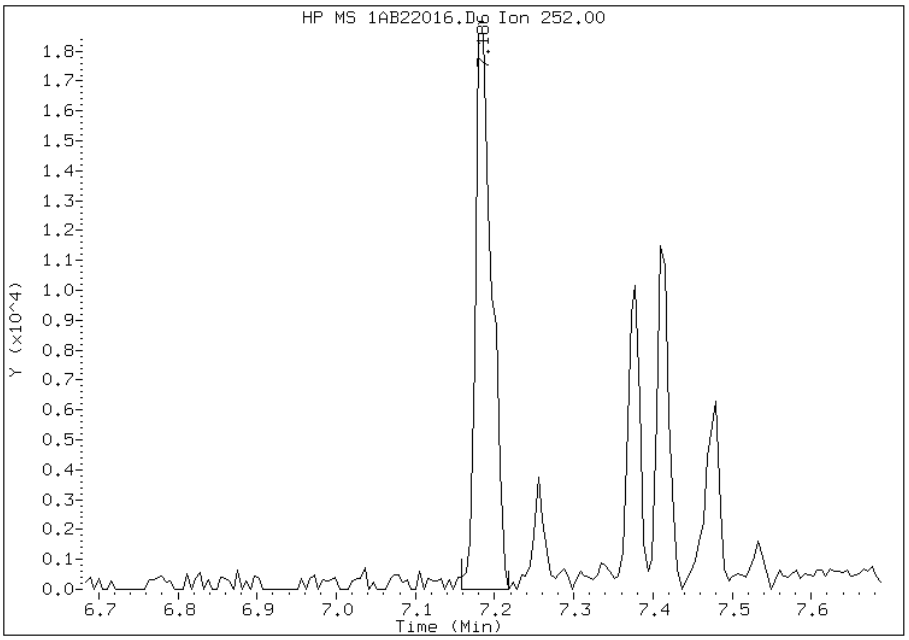
Processing Integration Results

RT: 7.19

Response: 26793

Amount: 1

Conc: 89



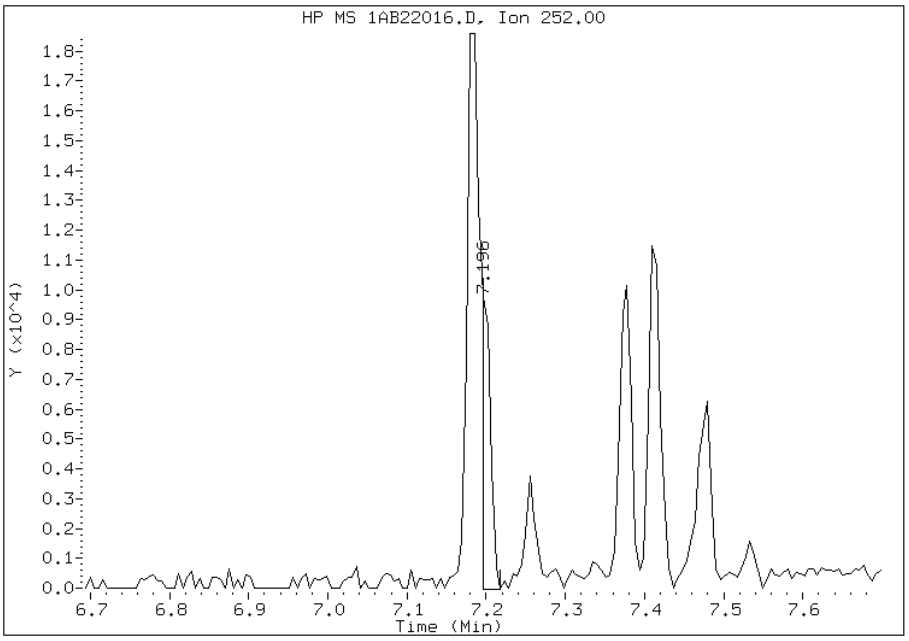
Manual Integration Results

RT: 7.20

Response: 7541

Amount: 0

Conc: 25



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:24
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22016.D
Inj. Date and Time: 22-FEB-2013 14:24
Instrument ID: BSMA5973.i
Client ID: FM0160F-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

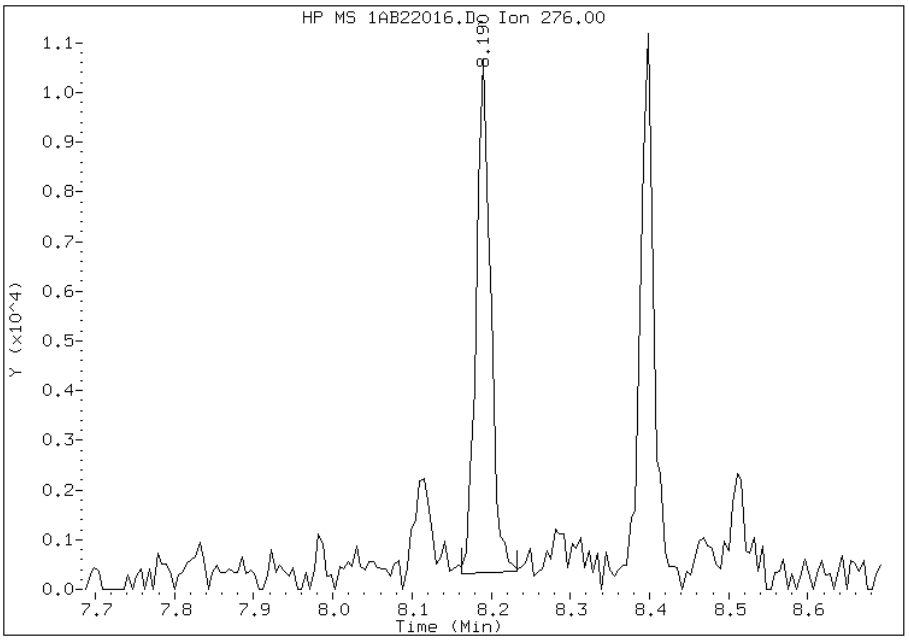
Processing Integration Results

RT: 8.19

Response: 12825

Amount: 1

Conc: 54



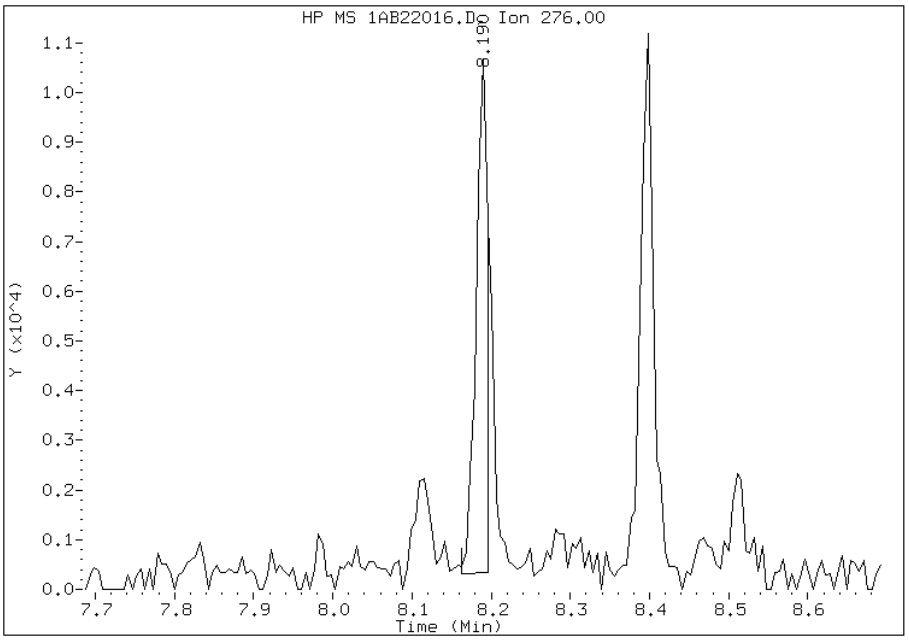
Manual Integration Results

RT: 8.19

Response: 10100

Amount: 1

Conc: 43



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:24
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: FM0160G-CS | Lab Sample ID: 680-87496-57

Matrix: Solid | Lab File ID: 1AB22017.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 15:52

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 14.93(g) | Date Analyzed: 02/22/2013 14:39

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

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

% Moisture: 6.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	5.4	J	43	5.4
120-12-7	Anthracene	7.8	J	9.0	4.5
56-55-3	Benzo[a]anthracene	41		8.6	4.2
50-32-8	Benzo[a]pyrene	26		11	5.6
205-99-2	Benzo[b]fluoranthene	39		13	6.6
191-24-2	Benzo[g,h,i]perylene	34		22	4.7
207-08-9	Benzo[k]fluoranthene	21		8.6	3.9
218-01-9	Chrysene	48		9.7	4.8
53-70-3	Dibenz(a,h)anthracene	14	J	22	4.4
206-44-0	Fluoranthene	39		22	4.3
86-73-7	Fluorene	22	U	22	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	31		22	7.6
90-12-0	1-Methylnaphthalene	31	J	43	4.7
91-57-6	2-Methylnaphthalene	44		43	7.6
91-20-3	Naphthalene	37	J	43	4.7
85-01-8	Phenanthrene	45		8.6	4.2
129-00-0	Pyrene	53		22	4.0

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22017.D
Lab Smp Id: 680-87496-A-57-A Client Smp ID: FM0160G-CS
Inj Date : 22-FEB-2013 14:39
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-57-a
Misc Info : 680-87496-A-57-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 17
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	14.930	Weight Extracted
M	6.667	% 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	2.396	2.397	(1.000)	986249	40.0000	
* 6 Acenaphthene-d10	164	3.421	3.417	(1.000)	772544	40.0000	
* 10 Phenanthrene-d10	188	4.361	4.352	(1.000)	1084337	40.0000	
$ 14 o-Terphenyl	230	4.639	4.635	(1.064)	109508	6.94044	498.0703
* 18 Chrysene-d12	240	6.375	6.366	(1.000)	590454	40.0000	
* 23 Perylene-d12	264	7.471	7.456	(1.000)	769744	40.0000	
2 Naphthalene	128	2.406	2.402	(1.004)	12100	0.50915	36.5386
3 2-Methylnaphthalene	141	2.807	2.808	(1.172)	7516	0.61263	43.9647
4 1-Methylnaphthalene	142	2.860	2.861	(1.194)	5836	0.42718	30.6561
5 Acenaphthylene	152	3.336	3.332	(0.975)	2175	0.07540	5.4110
11 Phenanthrene	178	4.372	4.368	(1.002)	16803	0.62342	44.7387
12 Anthracene	178	4.404	4.400	(1.010)	2854	0.10901	7.8230
13 Carbazole	167	4.559	4.555	(1.045)	1900	0.08221	5.8997(Q)
15 Fluoranthene	202	5.232	5.228	(1.200)	14592	0.54146	38.8573

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	5.398	5.394	(0.847)	12696	0.73307	52.6079
17 Benzo(a)anthracene	228	6.370	6.355	(0.999)	10085	0.57202	41.0501(Q)
19 Chrysene	228	6.386	6.387	(1.002)	10541	0.66851	47.9745
20 Benzo(b)fluoranthene	252	7.182	7.178	(0.961)	10550	0.54067	38.8000(M)
21 Benzo(k)fluoranthene	252	7.193	7.199	(0.963)	5687	0.28969	20.7892(QMH)
22 Benzo(a)pyrene	252	7.412	7.408	(0.992)	6565	0.36738	26.3645
24 Indeno(1,2,3-cd)pyrene	276	8.192	8.177	(1.097)	6639	0.43305	31.0774(M)
25 Dibenzo(a,h)anthracene	278	8.202	8.193	(1.098)	3107	0.19448	13.9566
26 Benzo(g,h,i)perylene	276	8.400	8.385	(1.124)	7677	0.47081	33.7871

QC Flag Legend

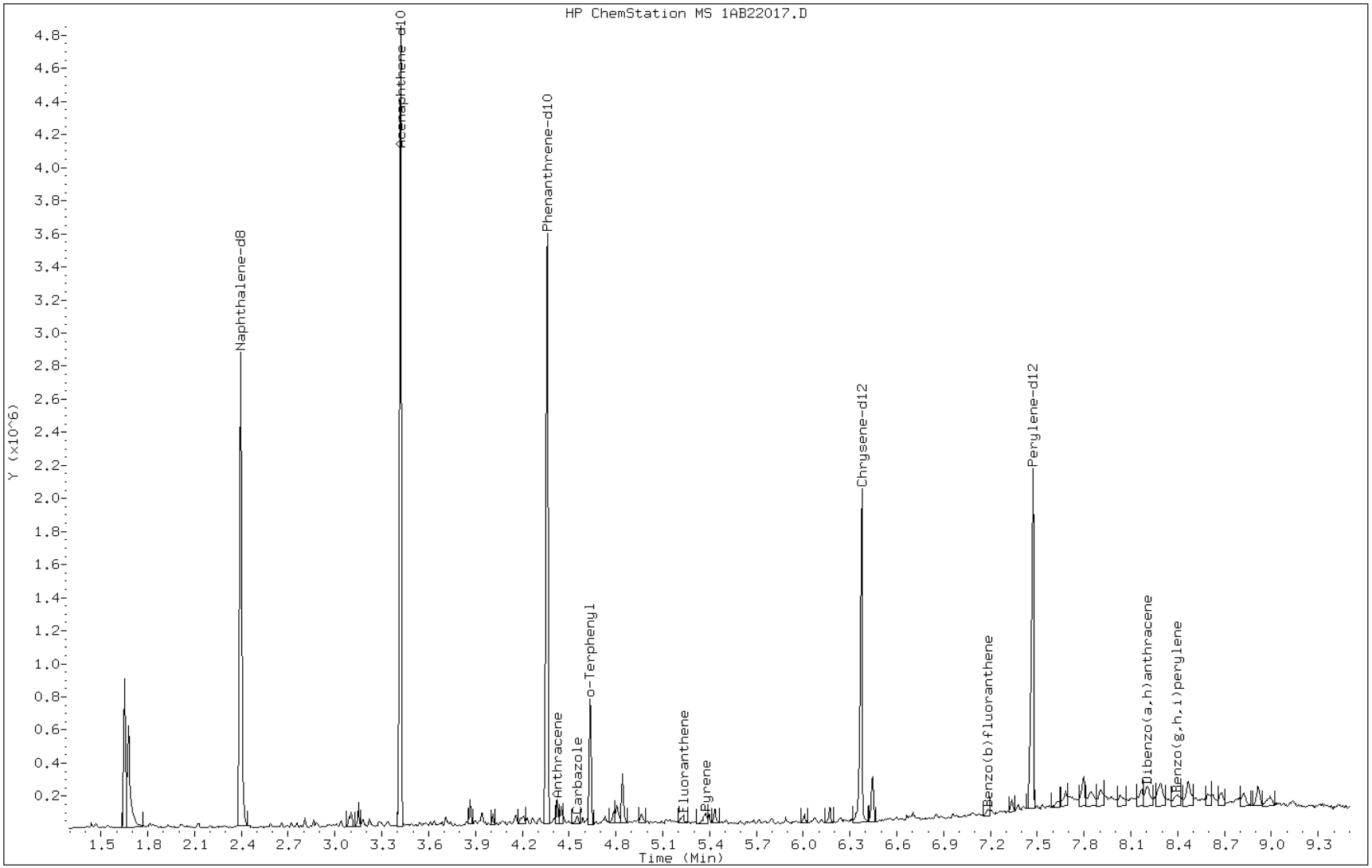
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC



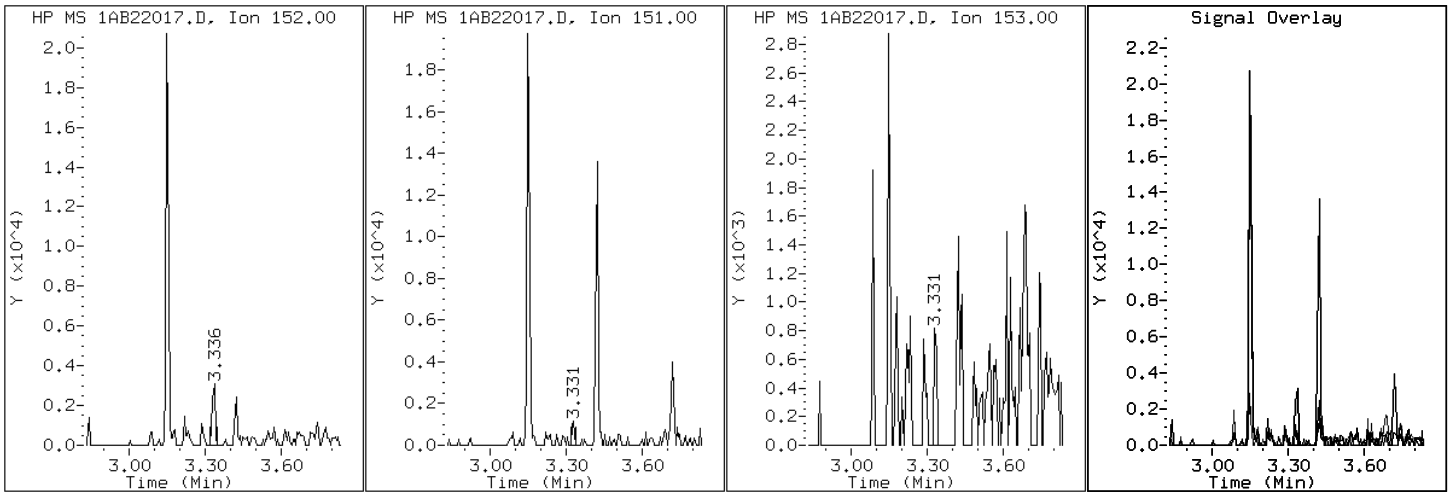
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

5 Acenaphthylene



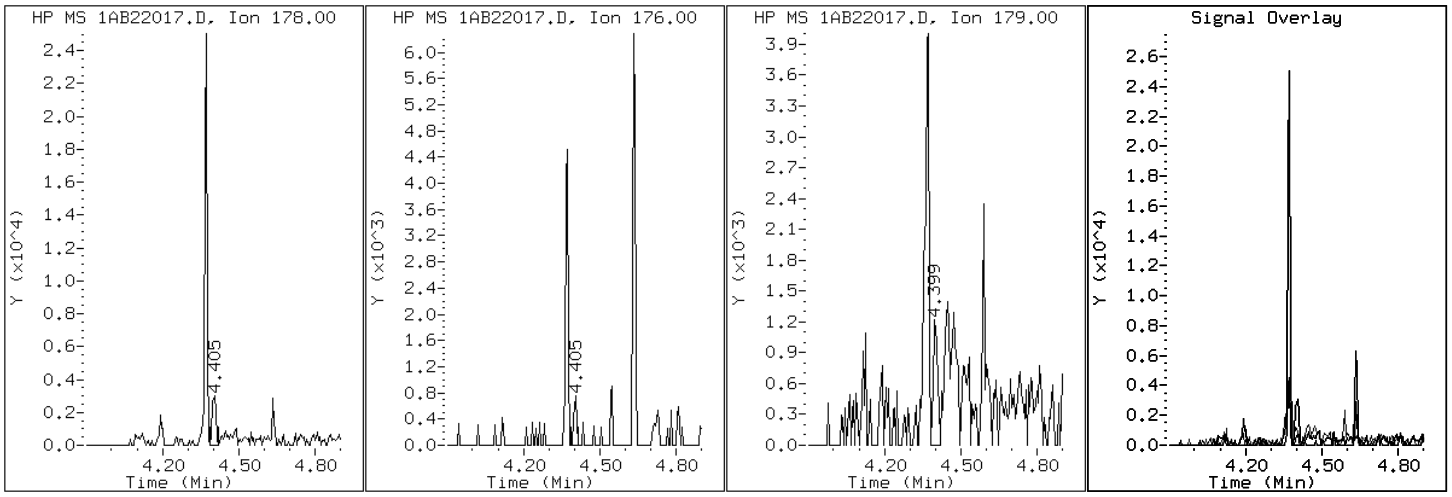
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

12 Anthracene



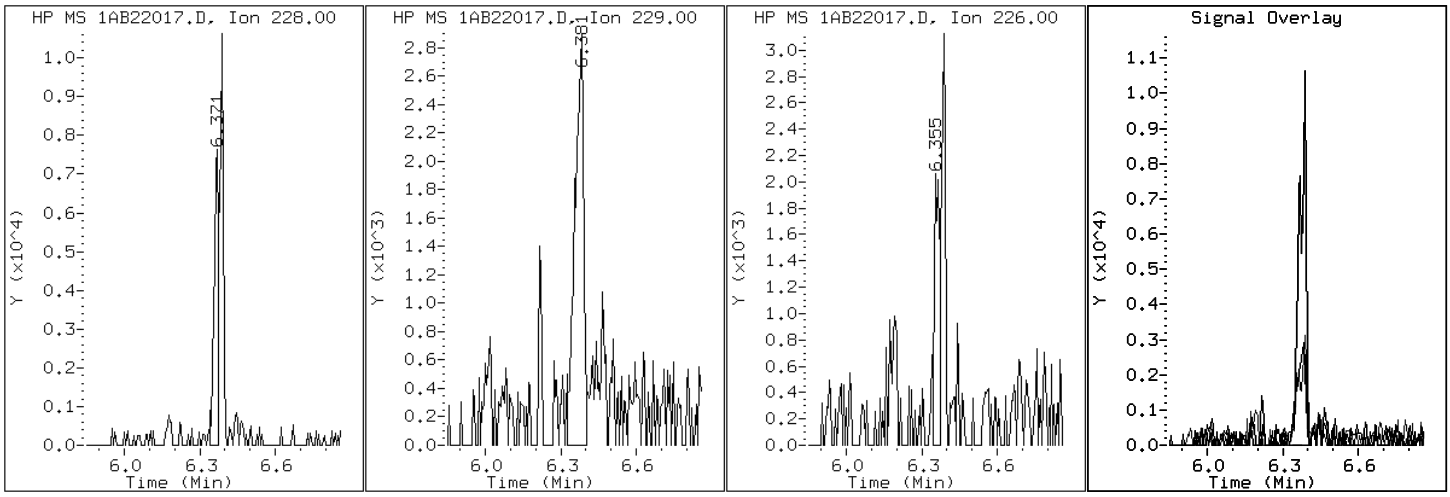
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

17 Benzo(a)anthracene



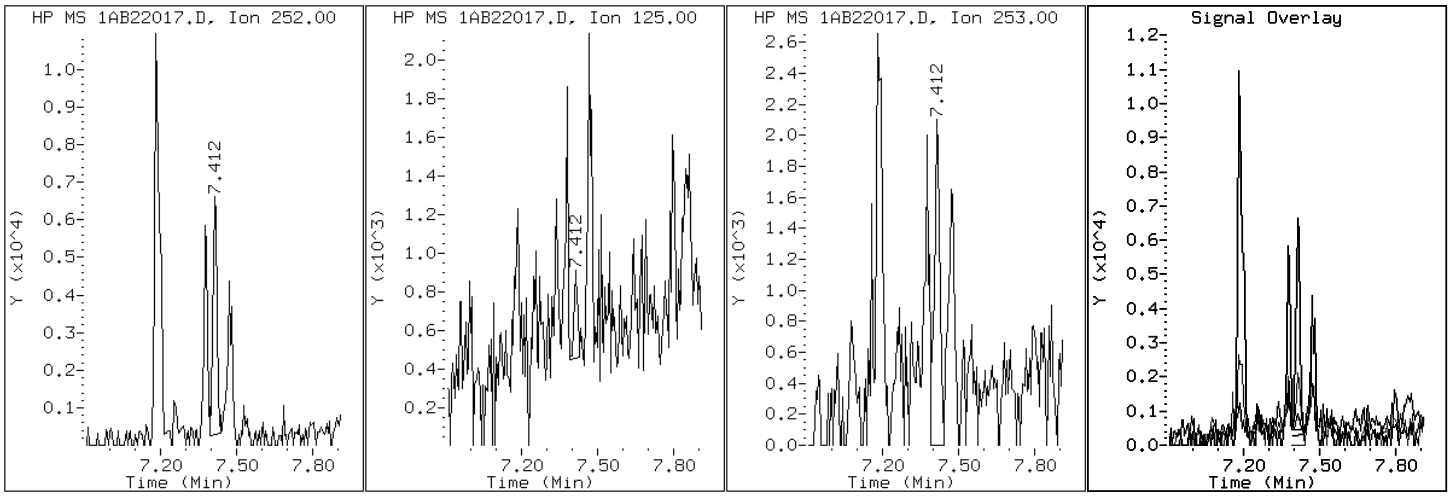
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

22 Benzo(a)pyrene



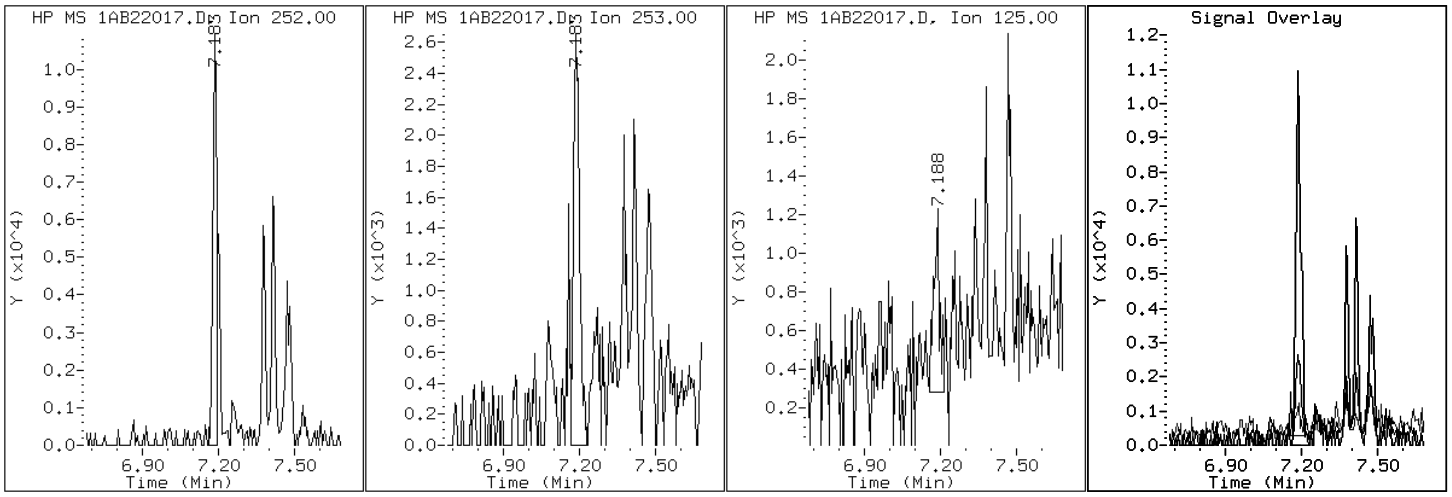
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

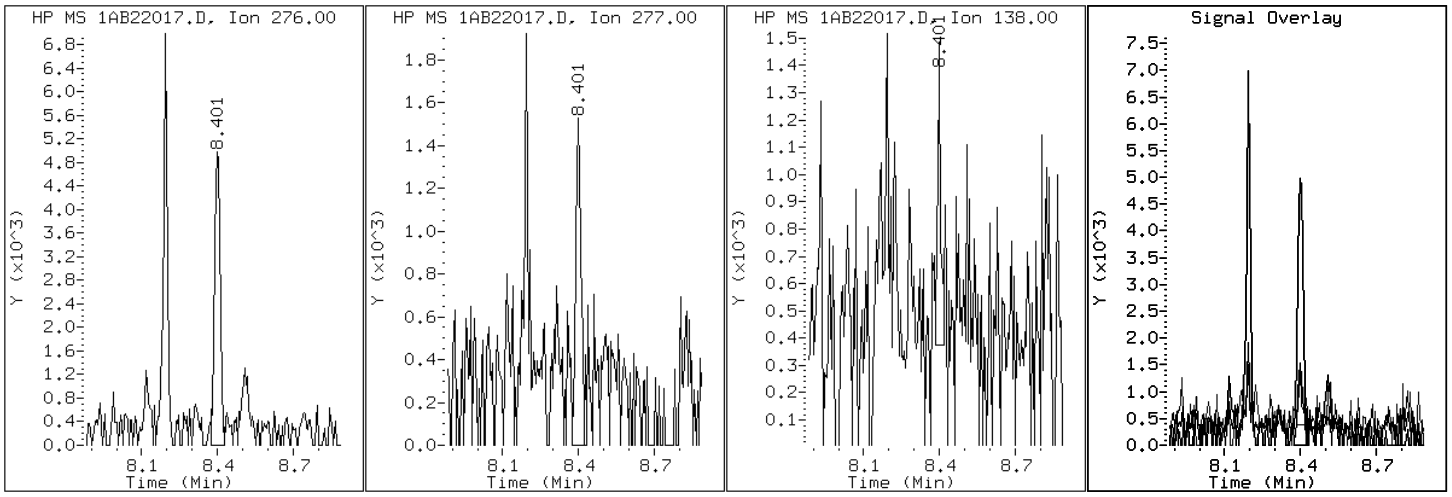
Client ID: FM0160G-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a

Operator: SCC

26 Benzo(g,h,i)perylene



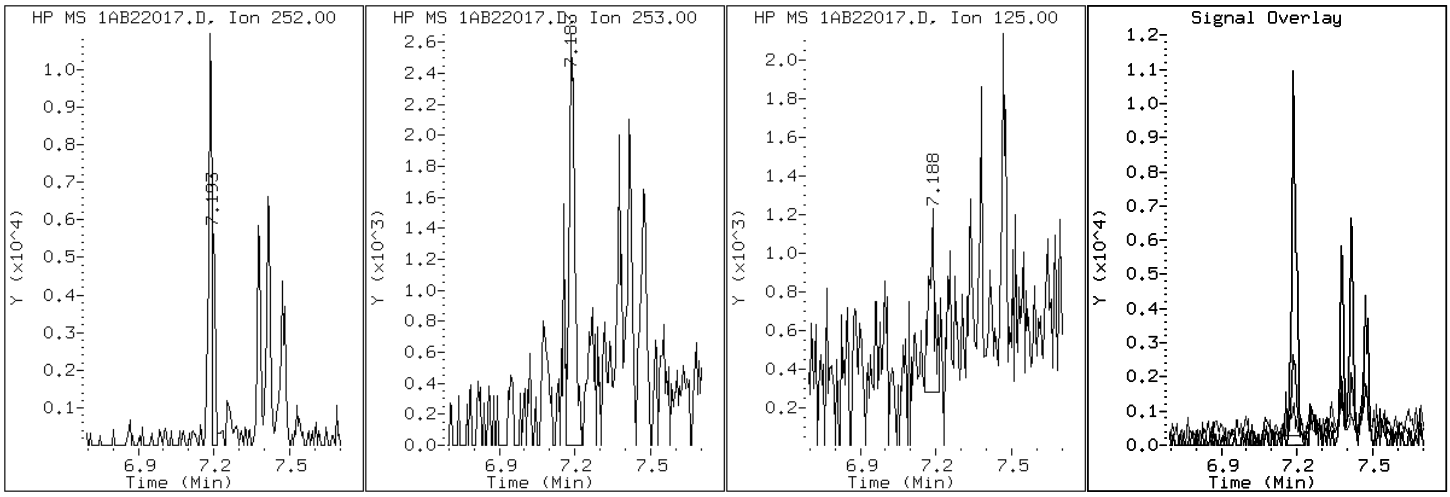
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

21 Benzo(k)fluoranthene



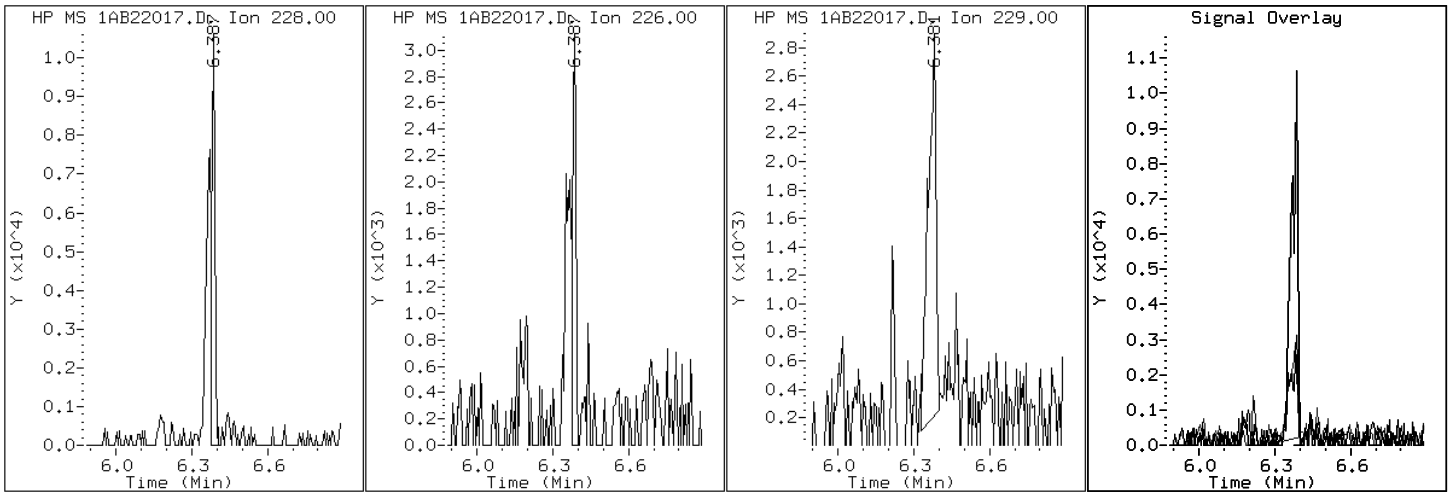
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

19 Chrysene



Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

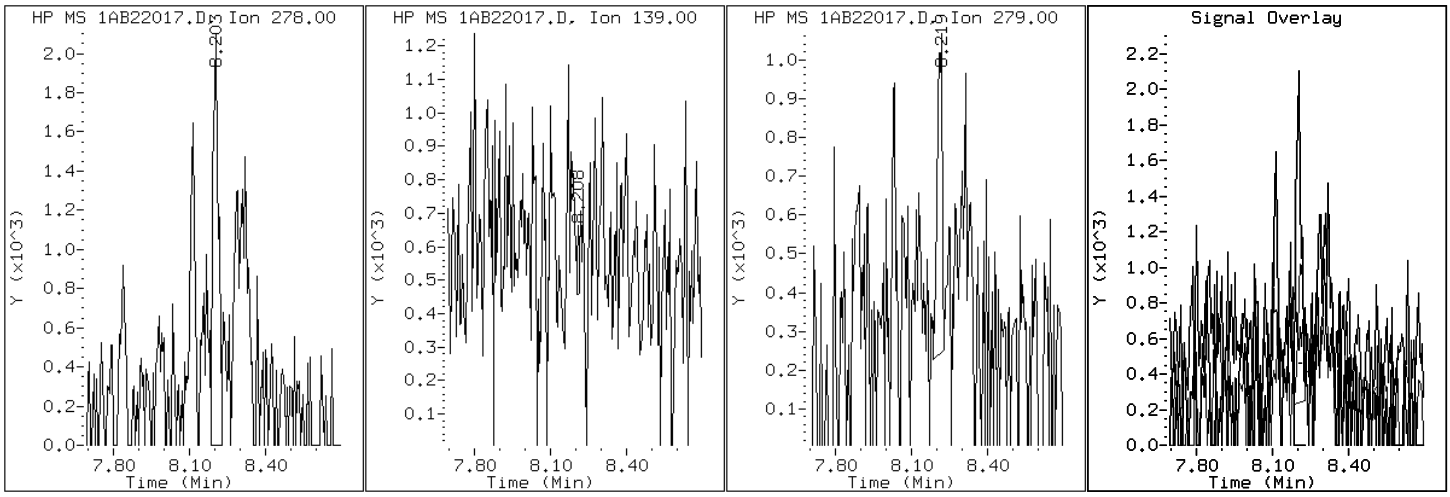
Client ID: FM0160G-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a

Operator: SCC

25 Dibenzo(a,h)anthracene



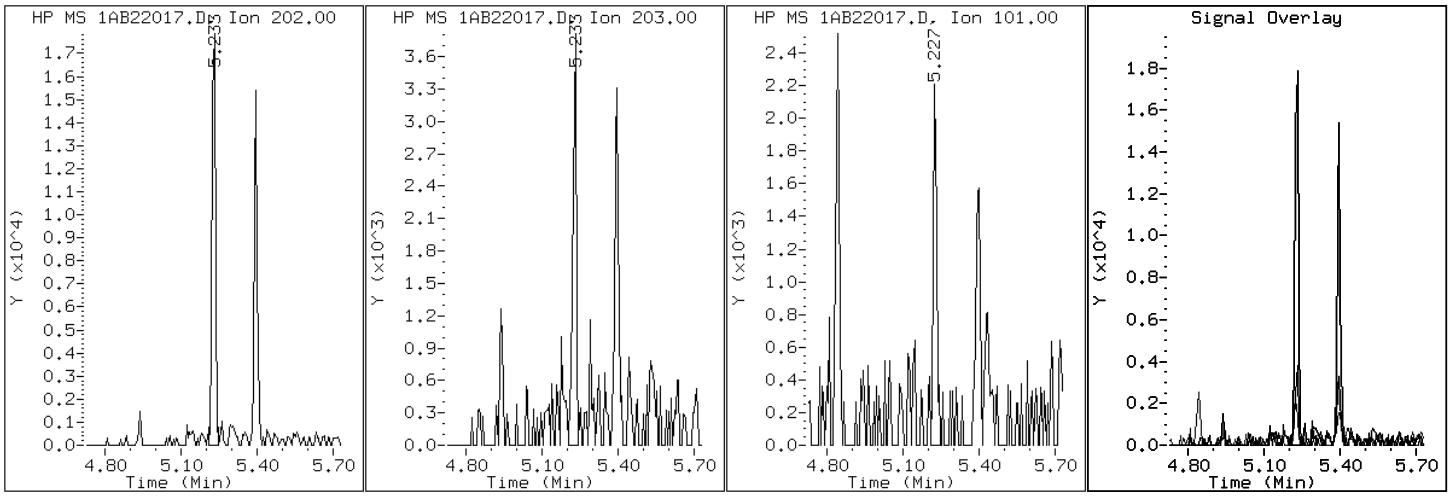
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

15 Fluoranthene



Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

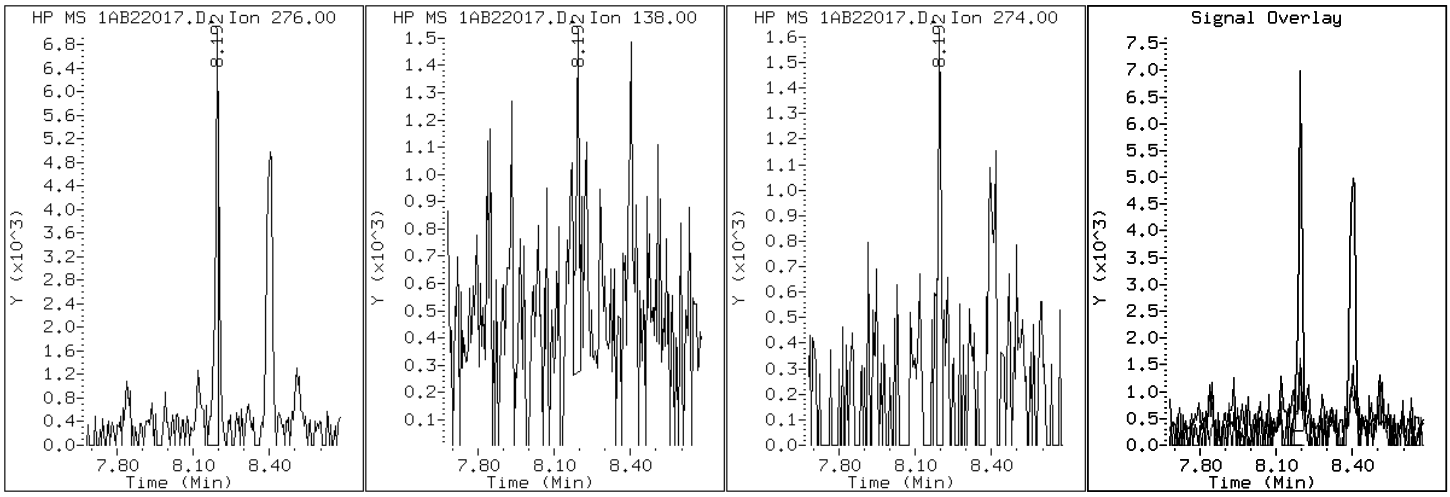
Client ID: FM0160G-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a

Operator: SCC

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



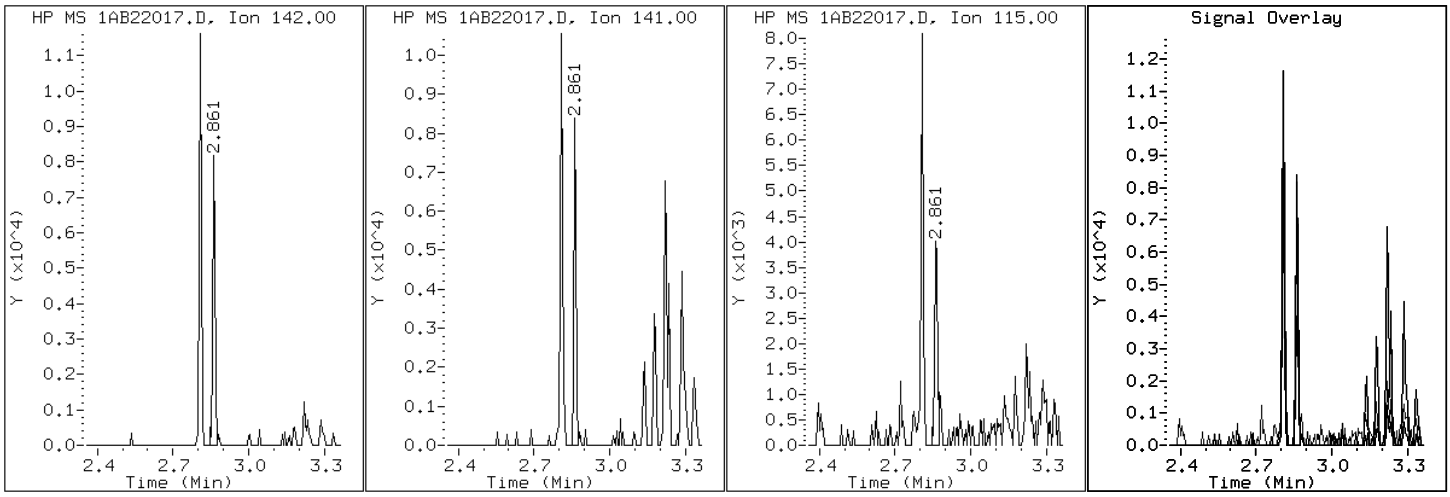
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

4 1-Methylnaphthalene



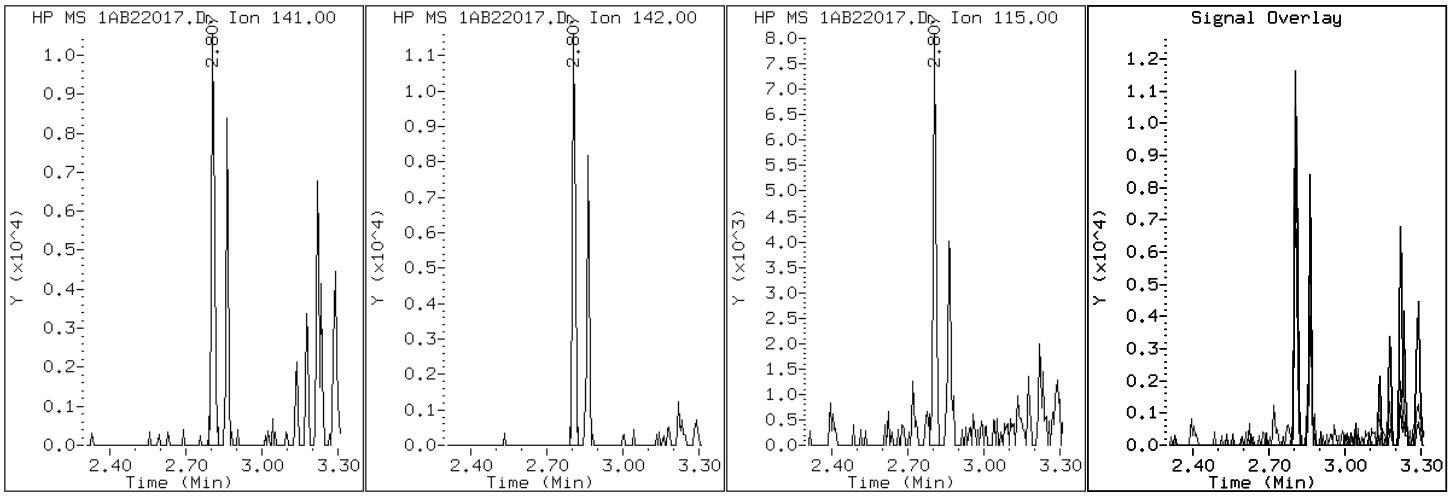
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

3 2-Methylnaphthalene



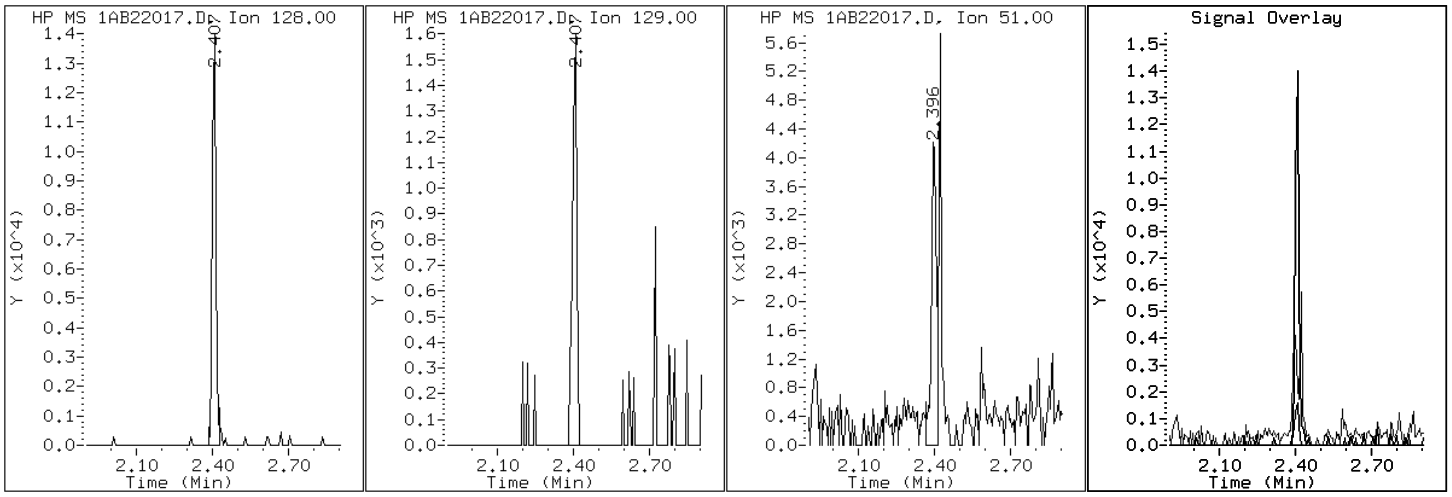
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

2 Naphthalene



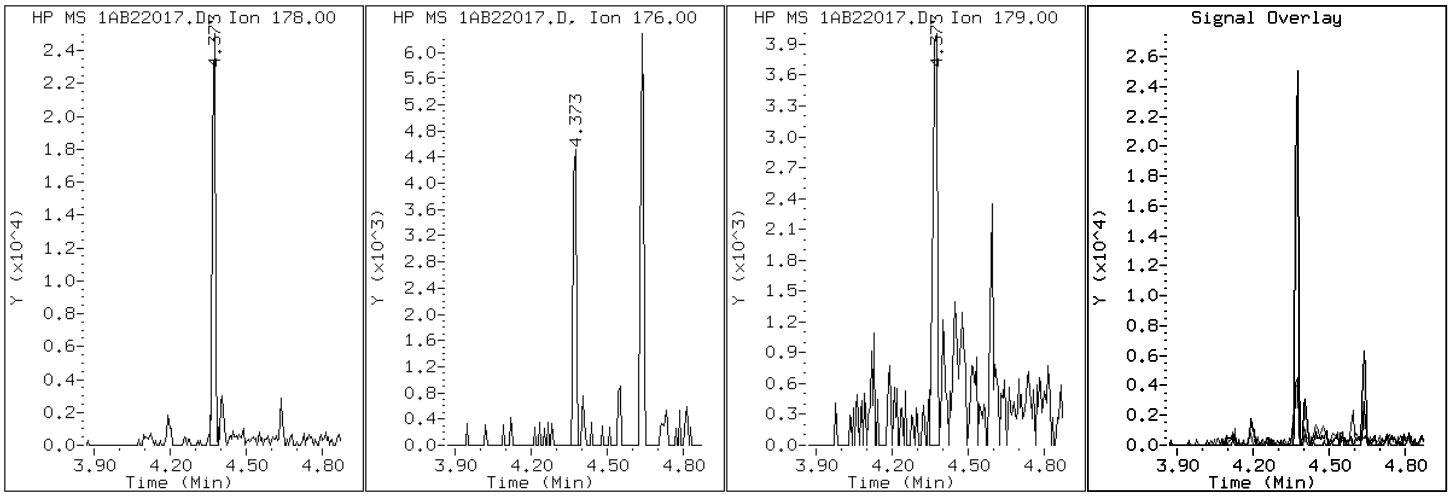
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

11 Phenanthrene



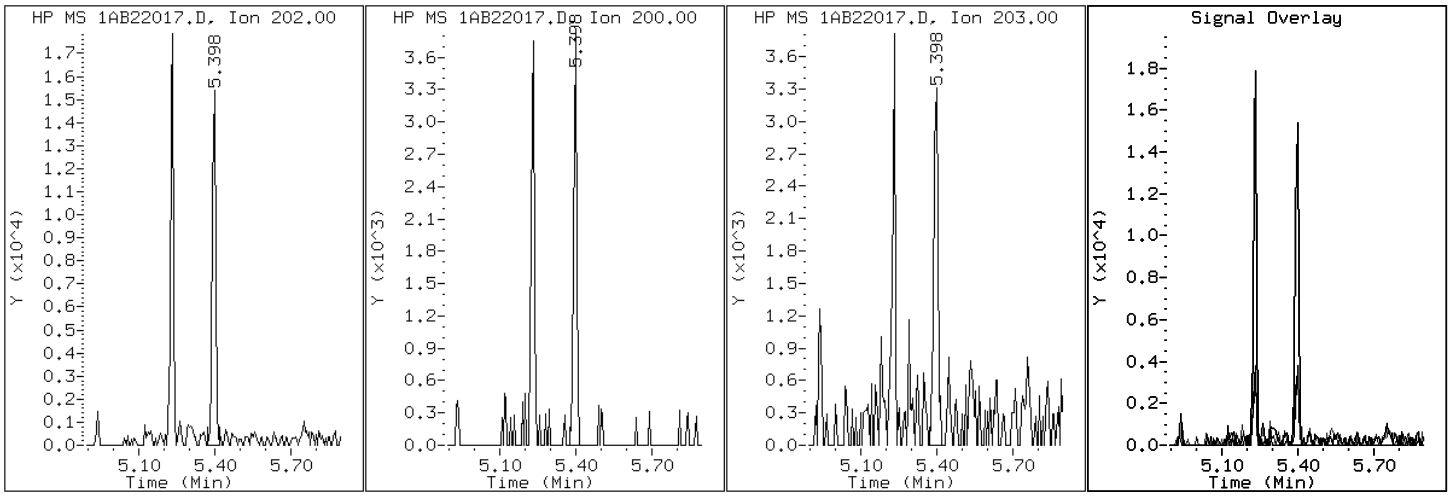
Data File: 1AB22017.D

Date: 22-FEB-2013 14:39

Client ID: FM0160G-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-57-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22017.D
Inj. Date and Time: 22-FEB-2013 14:39
Instrument ID: BSMA5973.i
Client ID: FM0160G-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

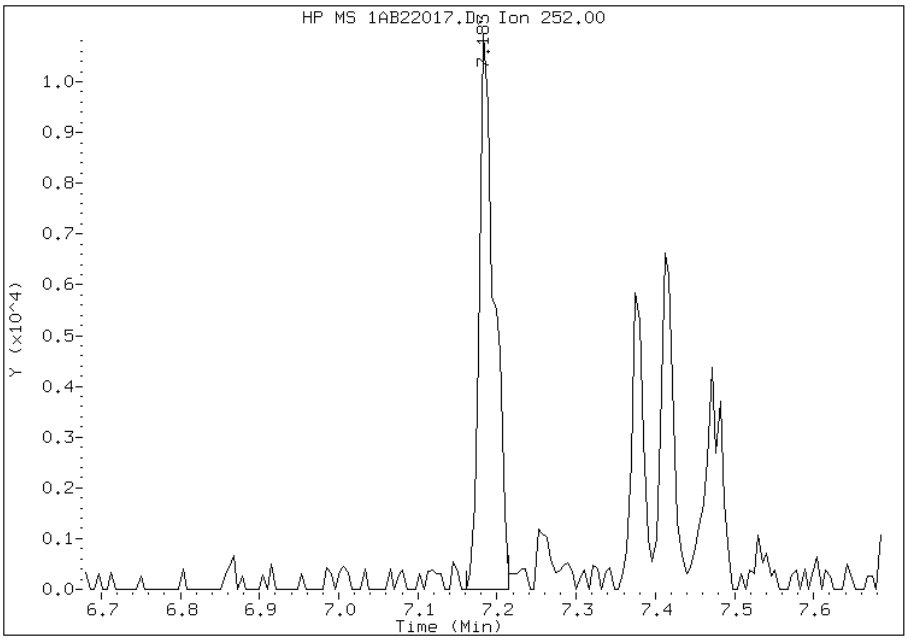
Processing Integration Results

RT: 7.18

Response: 14400

Amount: 1

Conc: 53



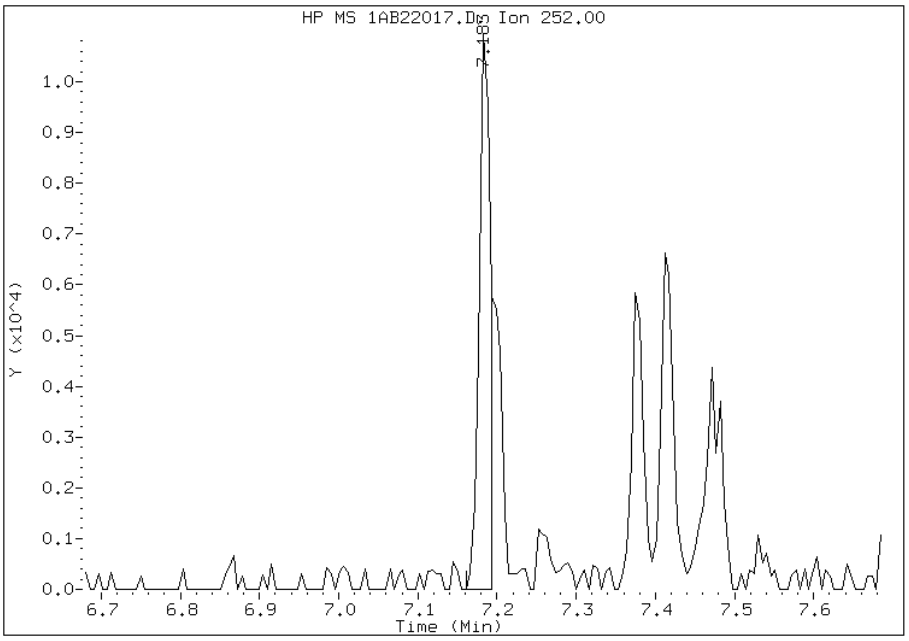
Manual Integration Results

RT: 7.18

Response: 10550

Amount: 1

Conc: 39



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:25
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22017.D
Inj. Date and Time: 22-FEB-2013 14:39
Instrument ID: BSMA5973.i
Client ID: FM0160G-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

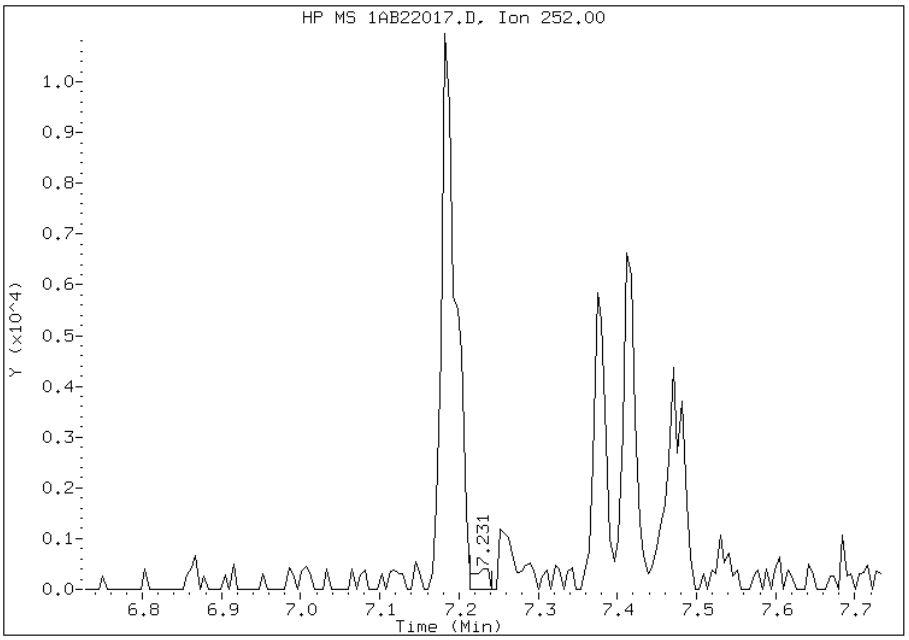
Processing Integration Results

RT: 7.23

Response: 550

Amount: 0

Conc: 2



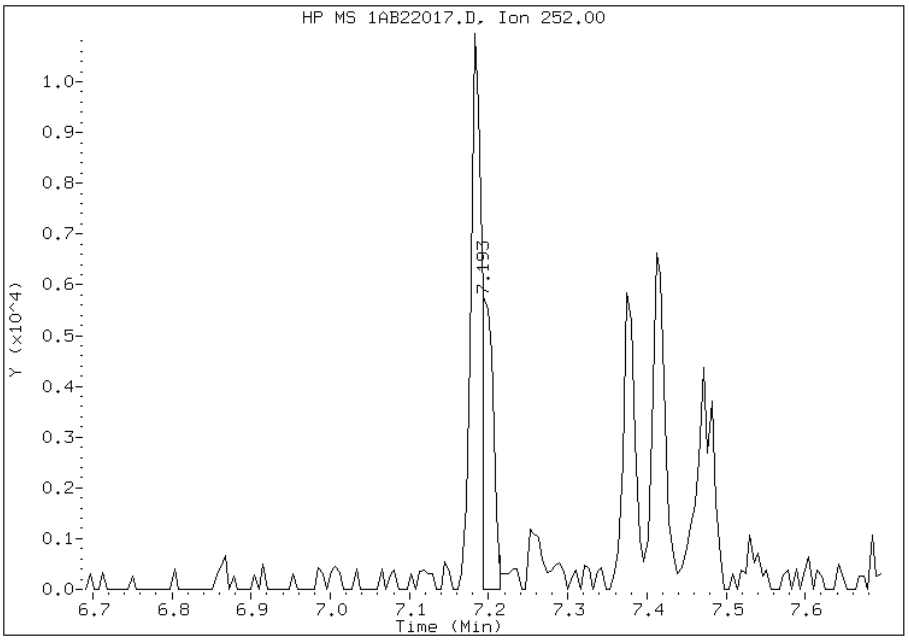
Manual Integration Results

RT: 7.19

Response: 5687

Amount: 0

Conc: 21



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:25
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22017.D
Inj. Date and Time: 22-FEB-2013 14:39
Instrument ID: BSMA5973.i
Client ID: FM0160G-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

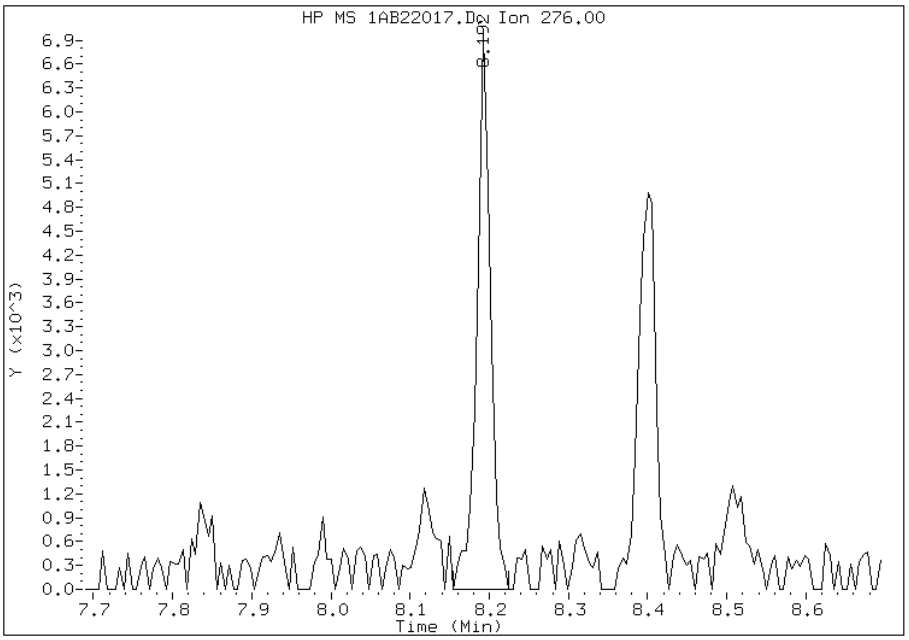
Processing Integration Results

RT: 8.19

Response: 8253

Amount: 1

Conc: 39



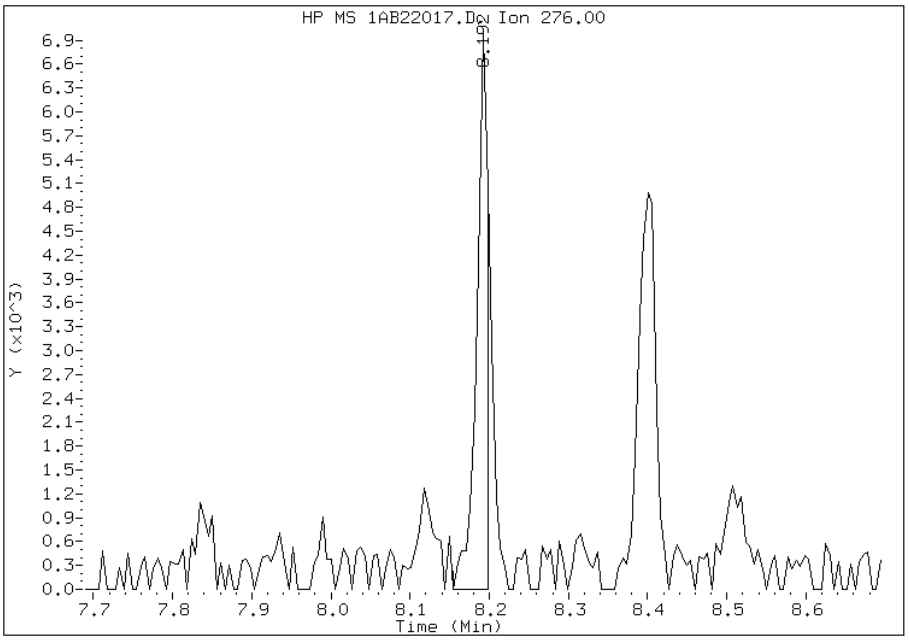
Manual Integration Results

RT: 8.19

Response: 6639

Amount: 0

Conc: 31



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: FM0160H-CS | Lab Sample ID: 680-87496-58

Matrix: Solid | Lab File ID: 1AB22018.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 15:55

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 14.92(g) | Date Analyzed: 02/22/2013 14:54

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

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

% Moisture: 6.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	21
208-96-8	Acenaphthylene	17	J	43	5.3
120-12-7	Anthracene	24		9.0	4.5
56-55-3	Benzo[a]anthracene	110		8.6	4.2
50-32-8	Benzo[a]pyrene	80		11	5.6
205-99-2	Benzo[b]fluoranthene	140		13	6.5
191-24-2	Benzo[g,h,i]perylene	79		21	4.7
207-08-9	Benzo[k]fluoranthene	21		8.6	3.8
218-01-9	Chrysene	120		9.6	4.8
53-70-3	Dibenz(a,h)anthracene	27		21	4.4
206-44-0	Fluoranthene	130		21	4.3
86-73-7	Fluorene	8.7	J	21	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	56		21	7.6
90-12-0	1-Methylnaphthalene	49		43	4.7
91-57-6	2-Methylnaphthalene	72		43	7.6
91-20-3	Naphthalene	61		43	4.7
85-01-8	Phenanthrene	110		8.6	4.2
129-00-0	Pyrene	110		21	4.0

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\1A022213_IC.b\1AB22018.D
Lab Smp Id: 680-87496-A-58-A Client Smp ID: FM0160H-CS
Inj Date : 22-FEB-2013 14:54
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-58-a
Misc Info : 680-87496-A-58-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 18
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	14.920	Weight Extracted
M	5.952	% 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	2.398	2.397	(1.000)	920823	40.0000	
* 6 Acenaphthene-d10	164	3.418	3.417	(1.000)	714780	40.0000	
* 10 Phenanthrene-d10	188	4.359	4.352	(1.000)	911727	40.0000	
$ 14 o-Terphenyl	230	4.636	4.635	(1.064)	101816	7.67462	546.9407
* 18 Chrysene-d12	240	6.389	6.366	(1.000)	821103	40.0000	
* 23 Perylene-d12	264	7.495	7.456	(1.000)	1298964	40.0000	(H)
2 Naphthalene	128	2.409	2.402	(1.004)	19056	0.85883	61.2053
3 2-Methylnaphthalene	141	2.809	2.808	(1.171)	11553	1.00860	71.8791
4 1-Methylnaphthalene	142	2.863	2.861	(1.194)	8734	0.68473	48.7984
5 Acenaphthylene	152	3.333	3.332	(0.975)	6215	0.23287	16.5956
9 Fluorene	166	3.744	3.743	(1.095)	2371	0.12182	8.6813
11 Phenanthrene	178	4.369	4.368	(1.002)	35561	1.56916	111.8279
12 Anthracene	178	4.407	4.400	(1.011)	7324	0.33271	23.7109
13 Carbazole	167	4.562	4.555	(1.047)	3209	0.16514	11.7686

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.235	5.228	(1.201)	42178	1.86140	132.6550
16 Pyrene	202	5.406	5.394	(0.846)	36764	1.52648	108.7866
17 Benzo(a)anthracene	228	6.383	6.355	(0.999)	37858	1.54412	110.0436
19 Chrysene	228	6.399	6.387	(1.002)	37441	1.70750	121.6873
20 Benzo(b)fluoranthene	252	7.211	7.178	(0.962)	63507	1.92862	137.4456(MH)
21 Benzo(k)fluoranthene	252	7.227	7.199	(0.964)	9972	0.30101	21.4519(QMH)
22 Benzo(a)pyrene	252	7.441	7.408	(0.993)	33870	1.12317	80.0441(H)
24 Indeno(1,2,3-cd)pyrene	276	8.226	8.177	(1.098)	20498	0.79232	56.4654(MH)
25 Dibenzo(a,h)anthracene	278	8.237	8.193	(1.099)	10118	0.37530	26.7463(H)
26 Benzo(g,h,i)perylene	276	8.445	8.385	(1.127)	30420	1.10551	78.7857(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: 1AB22018.D

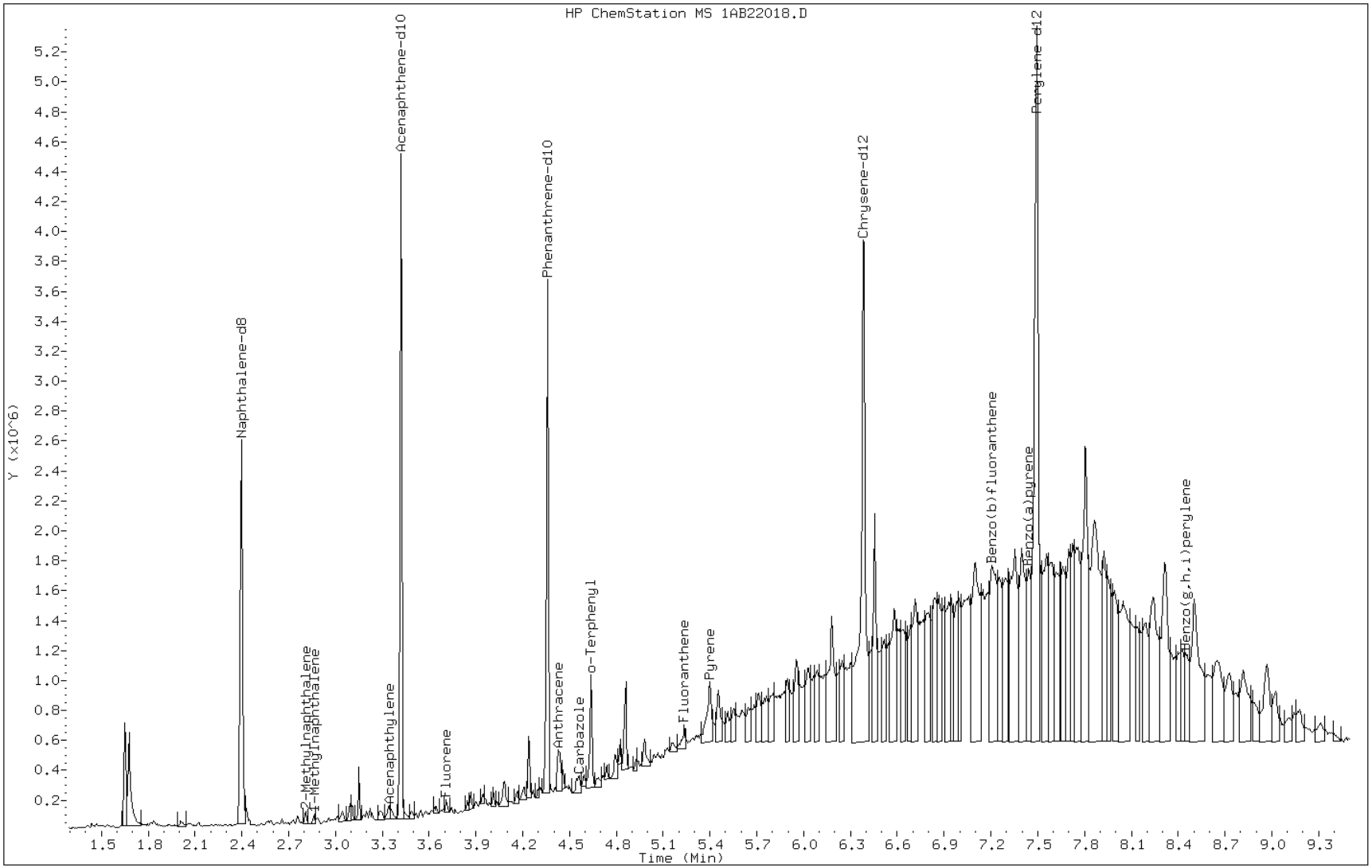
Date: 22-FEB-2013 14:54

Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC



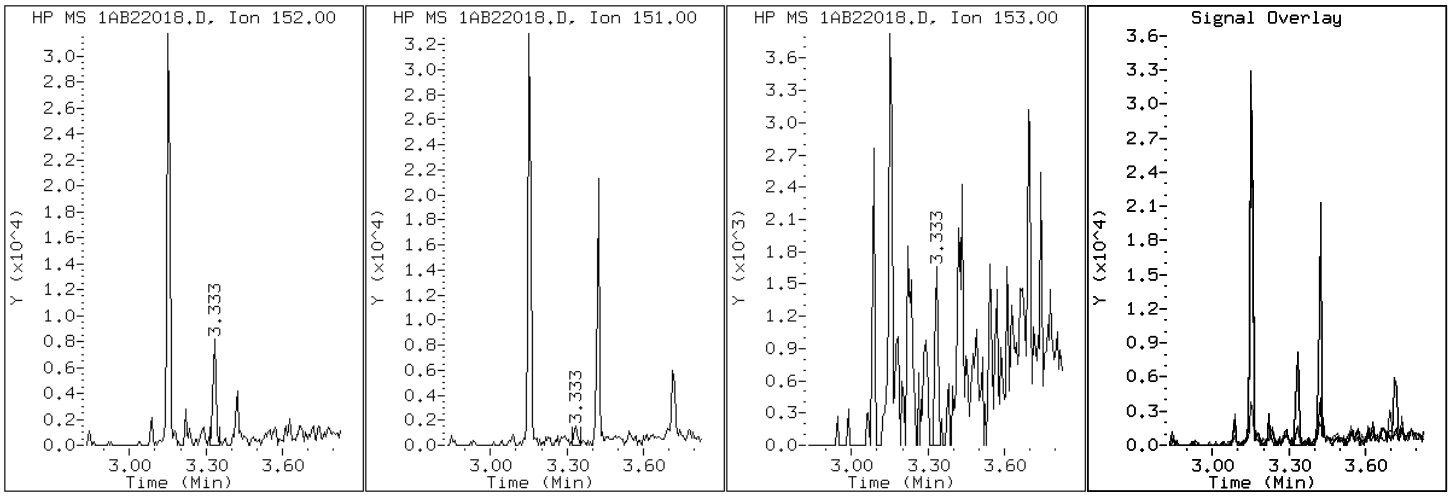
Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

Client ID: FM0160H-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a Operator: SCC

5 Acenaphthylene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

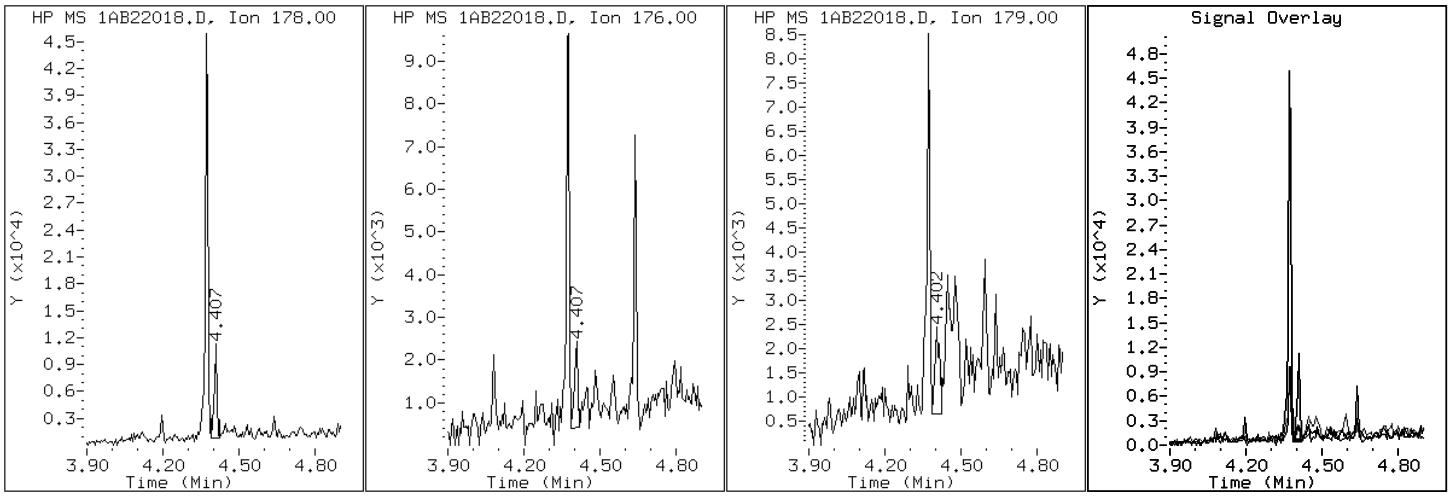
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

12 Anthracene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

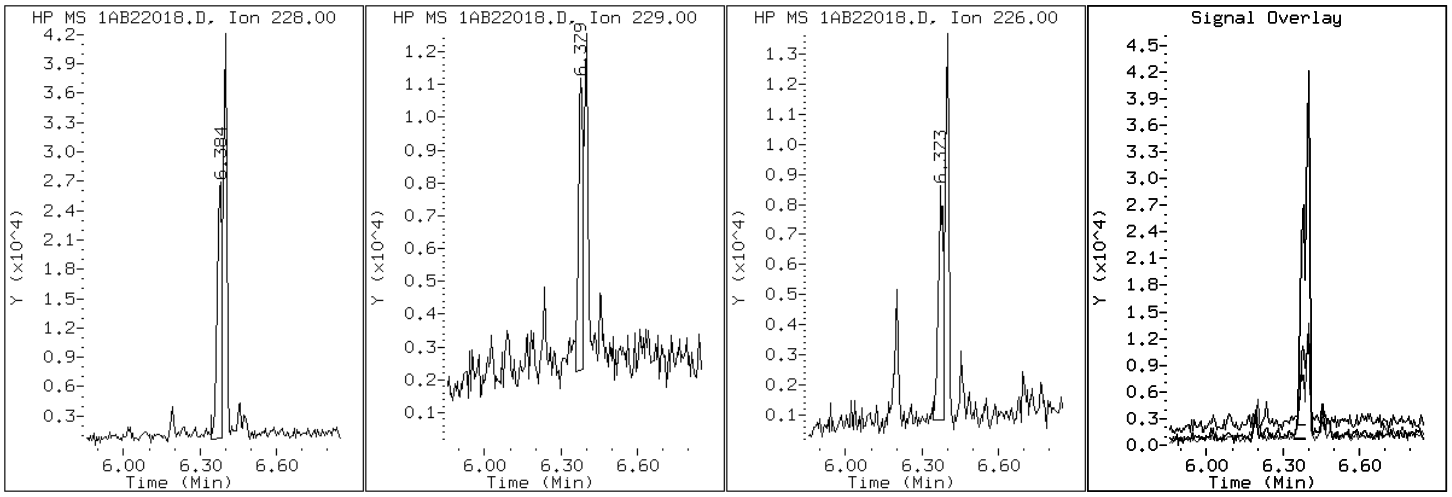
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

17 Benzo(a)anthracene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

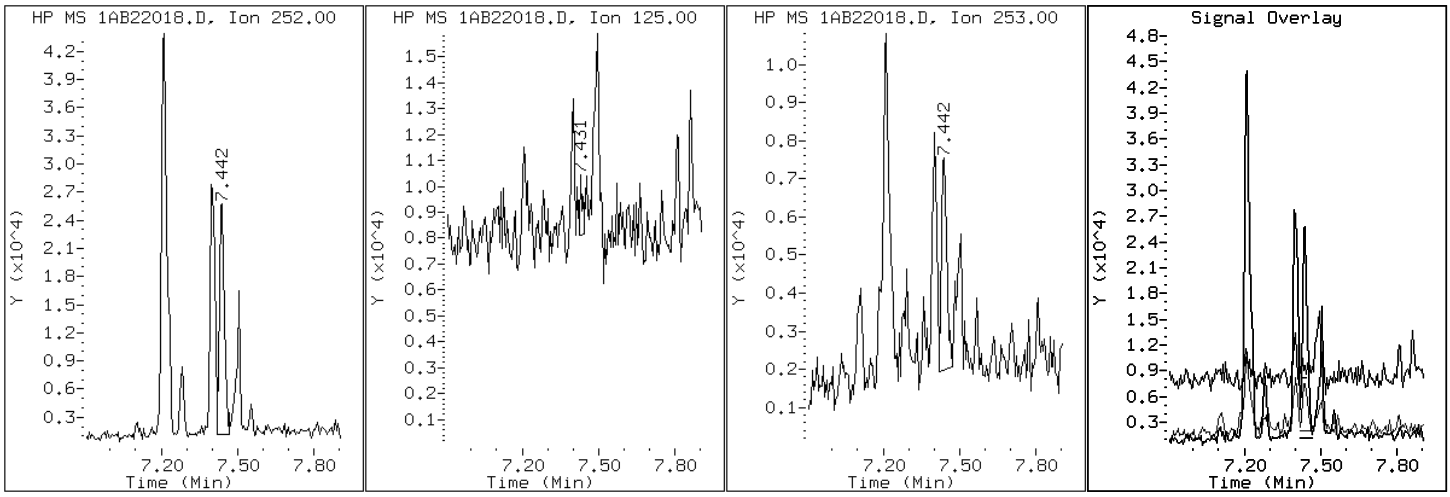
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

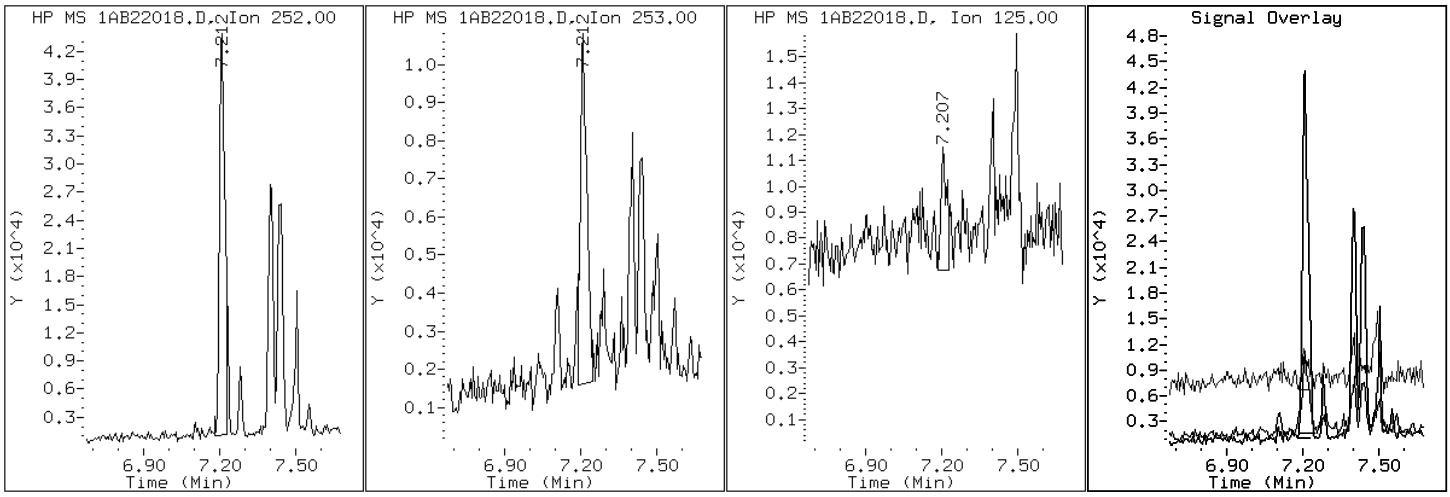
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

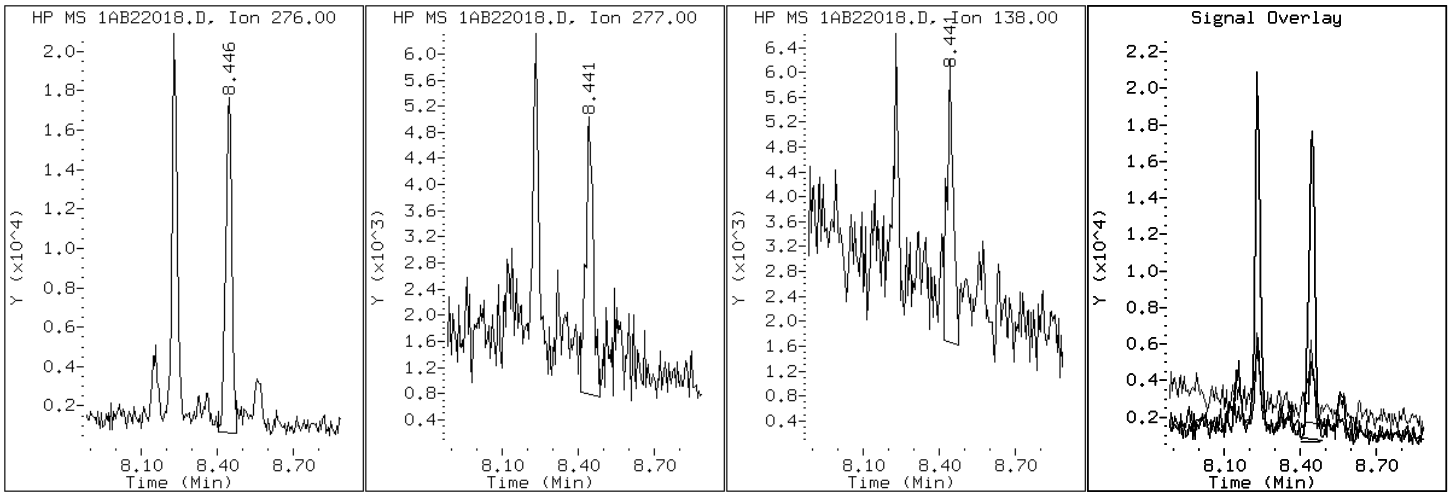
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

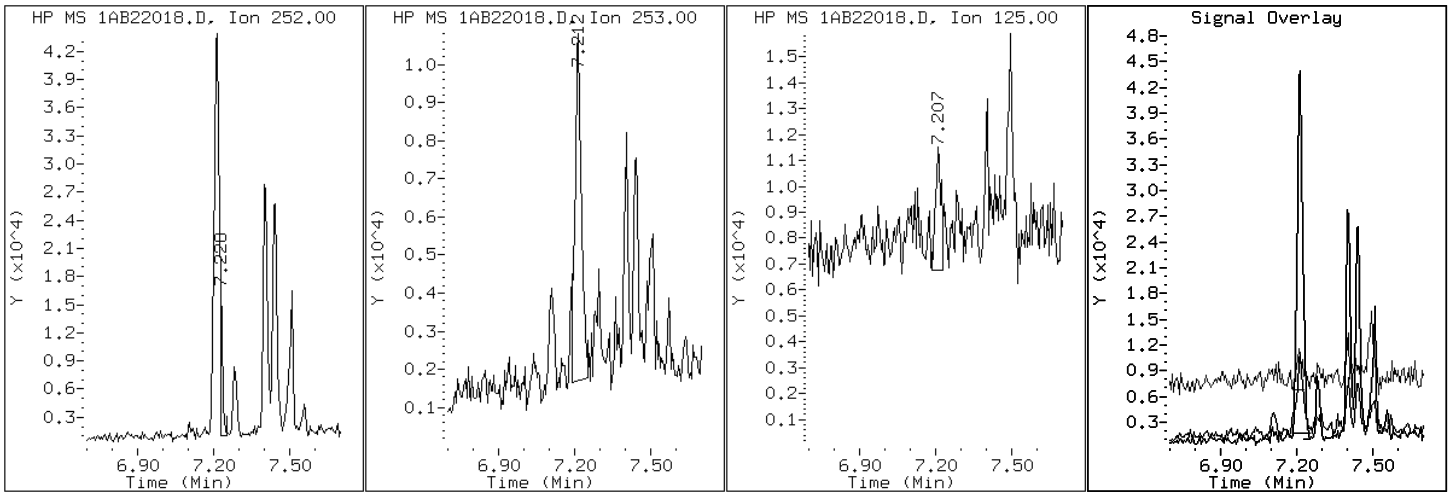
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

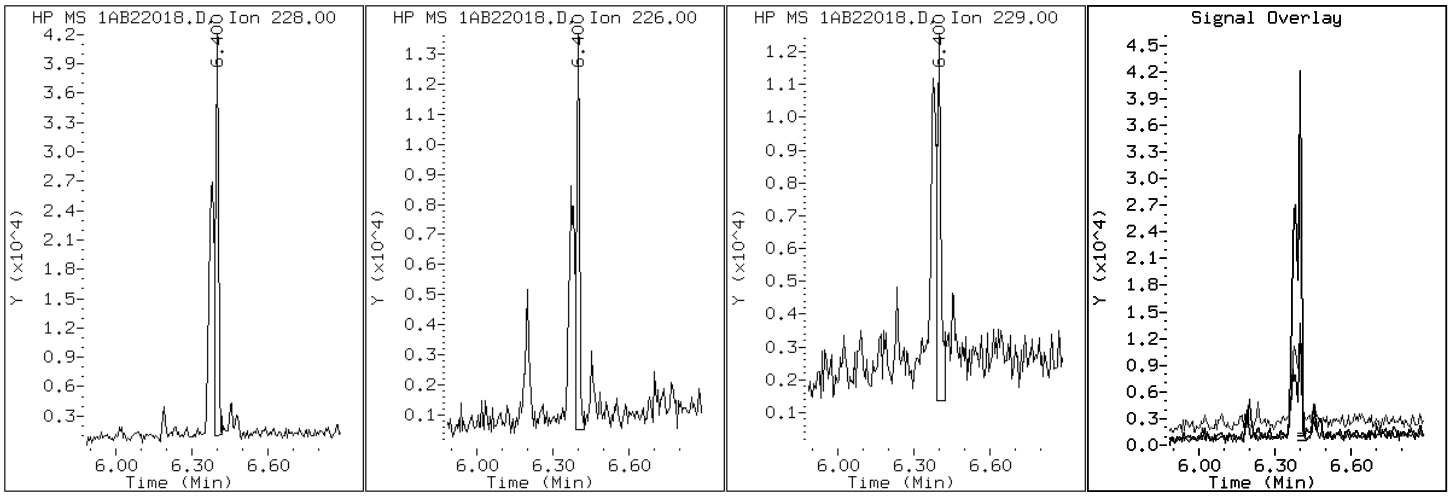
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

19 Chrysene



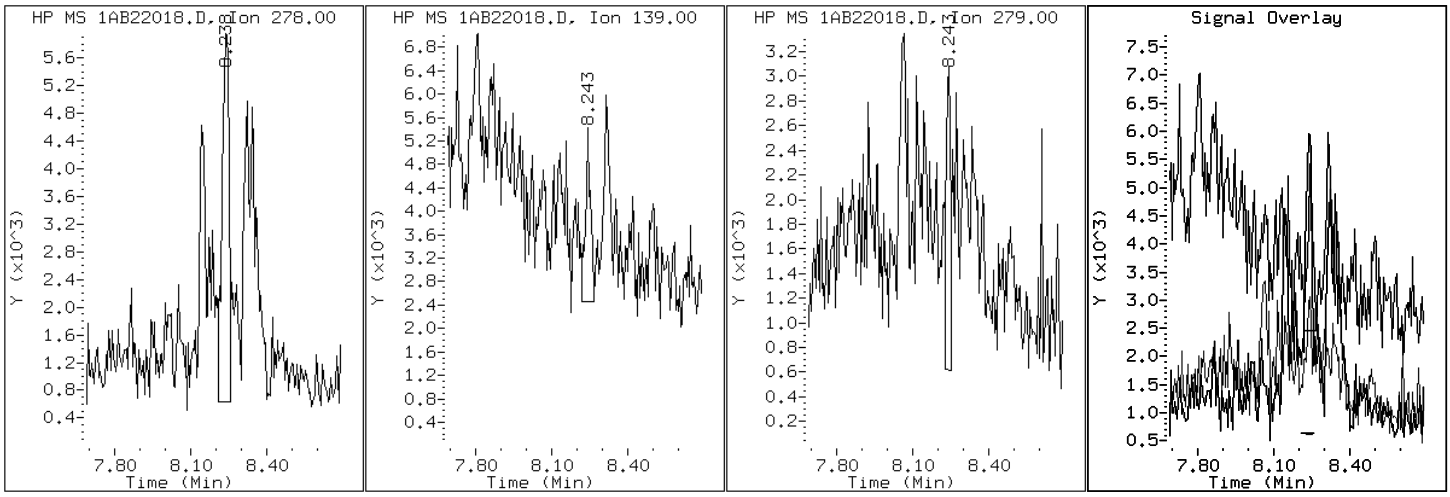
Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

Client ID: FM0160H-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

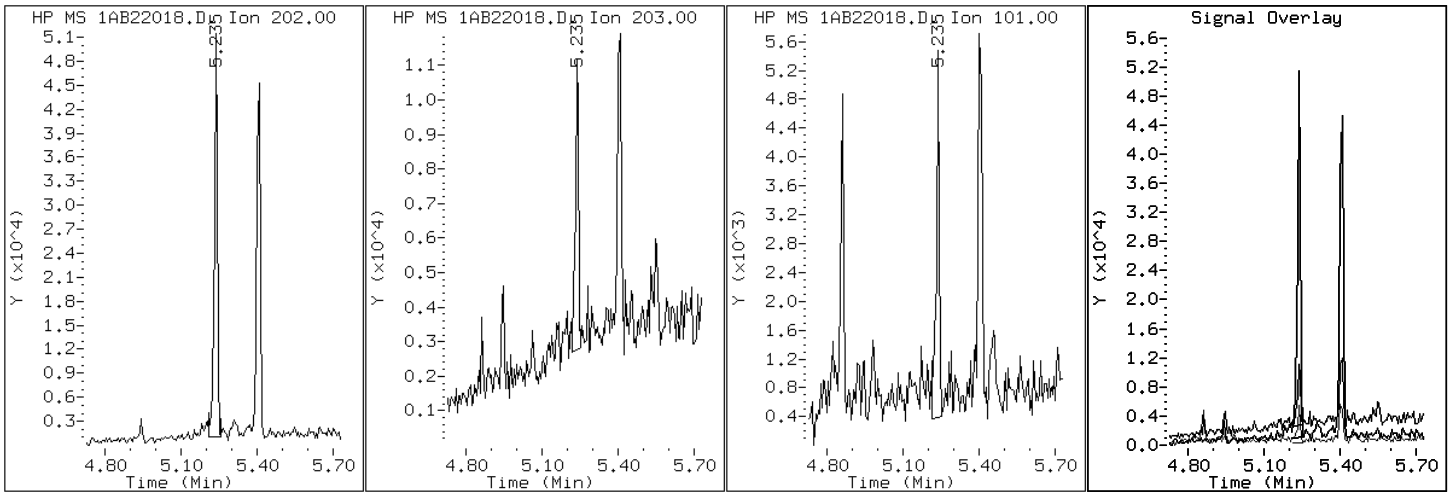
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

15 Fluoranthene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

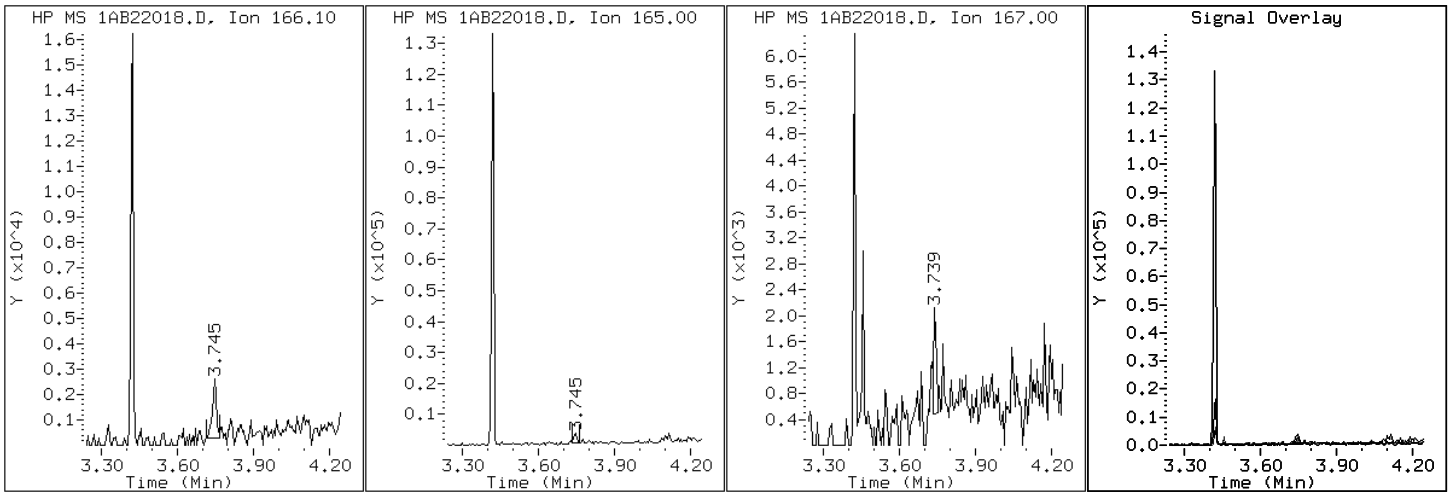
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

9 Fluorene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

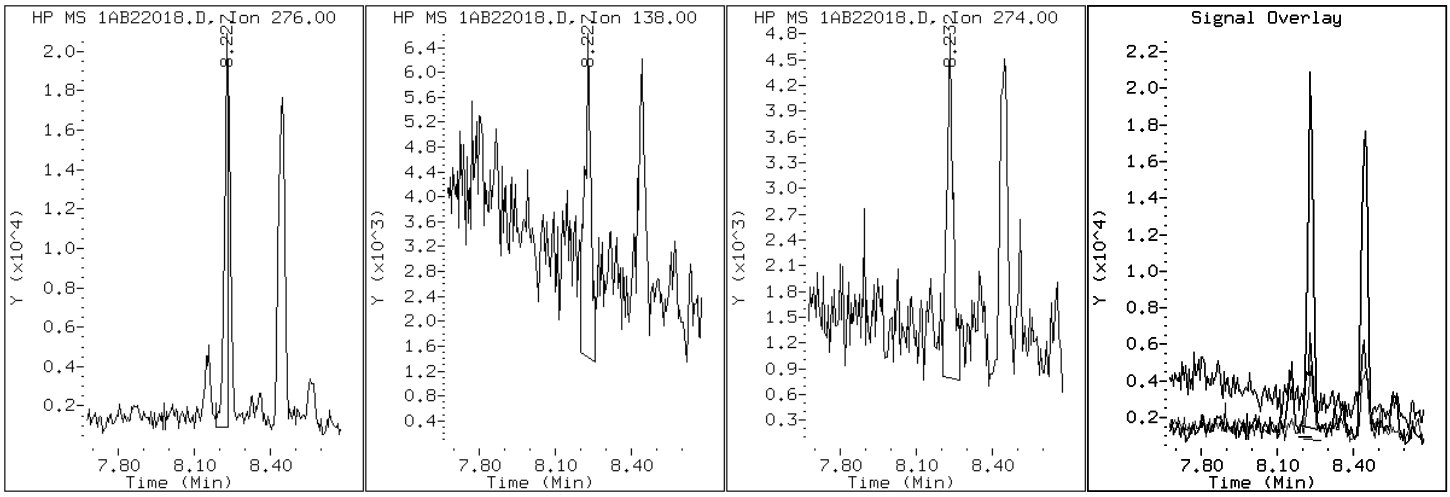
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

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



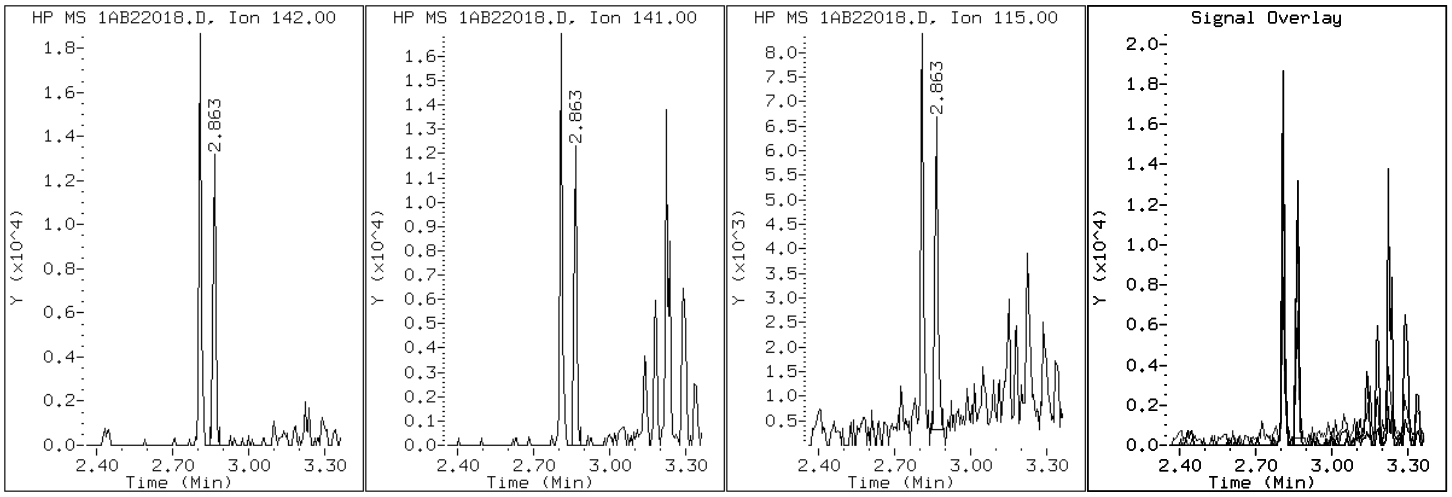
Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

Client ID: FM0160H-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a Operator: SCC

4 1-Methylnaphthalene



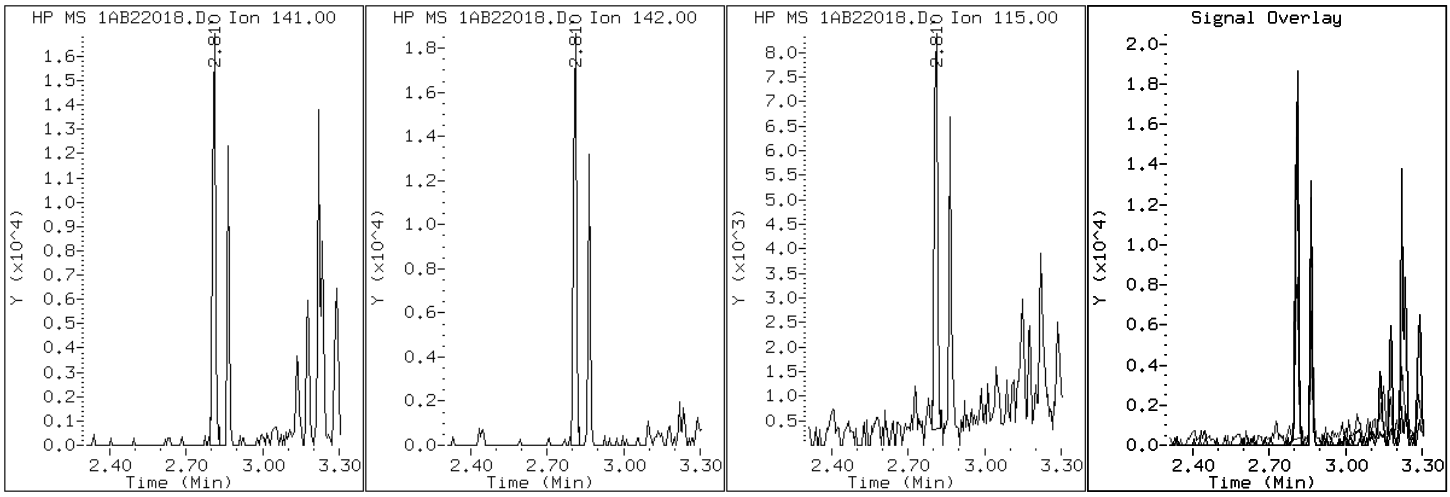
Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

Client ID: FM0160H-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

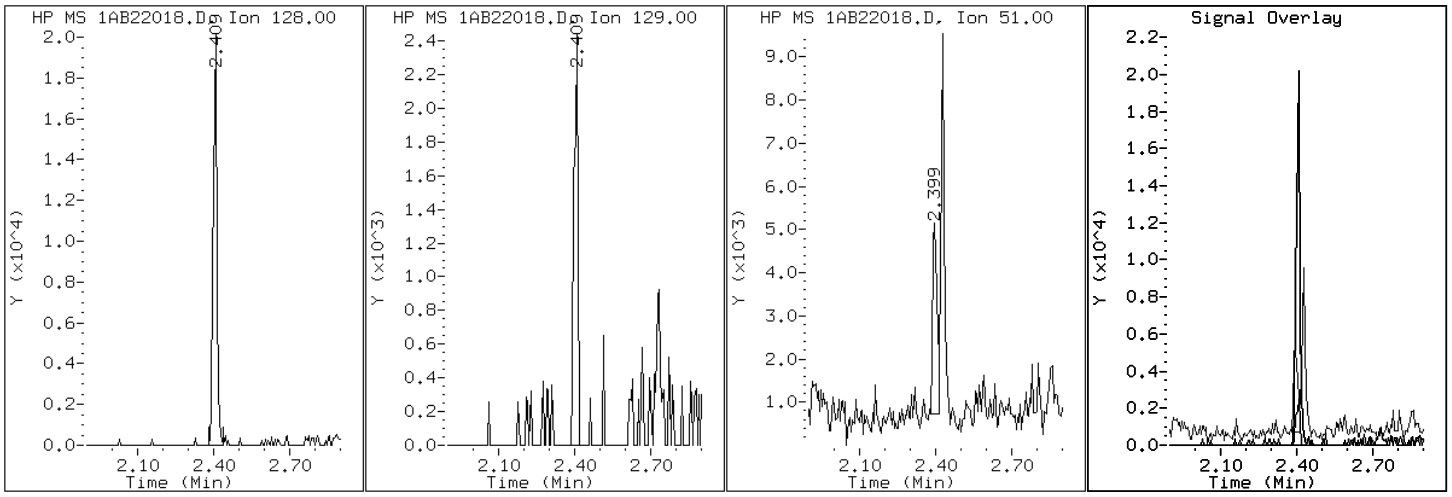
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

2 Naphthalene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

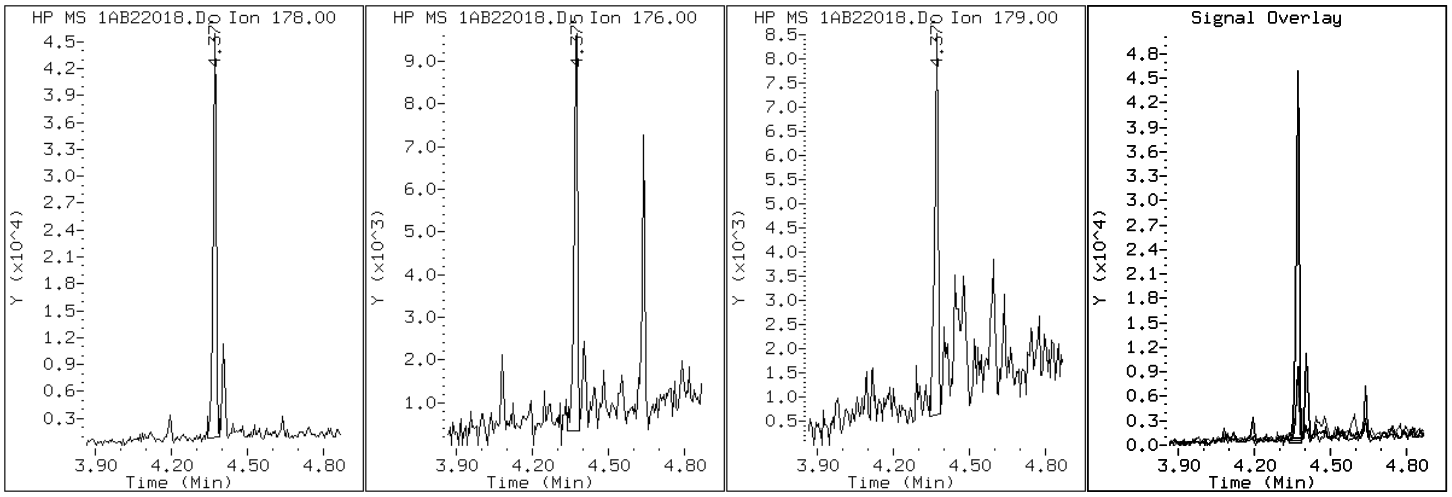
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

11 Phenanthrene



Data File: 1AB22018.D

Date: 22-FEB-2013 14:54

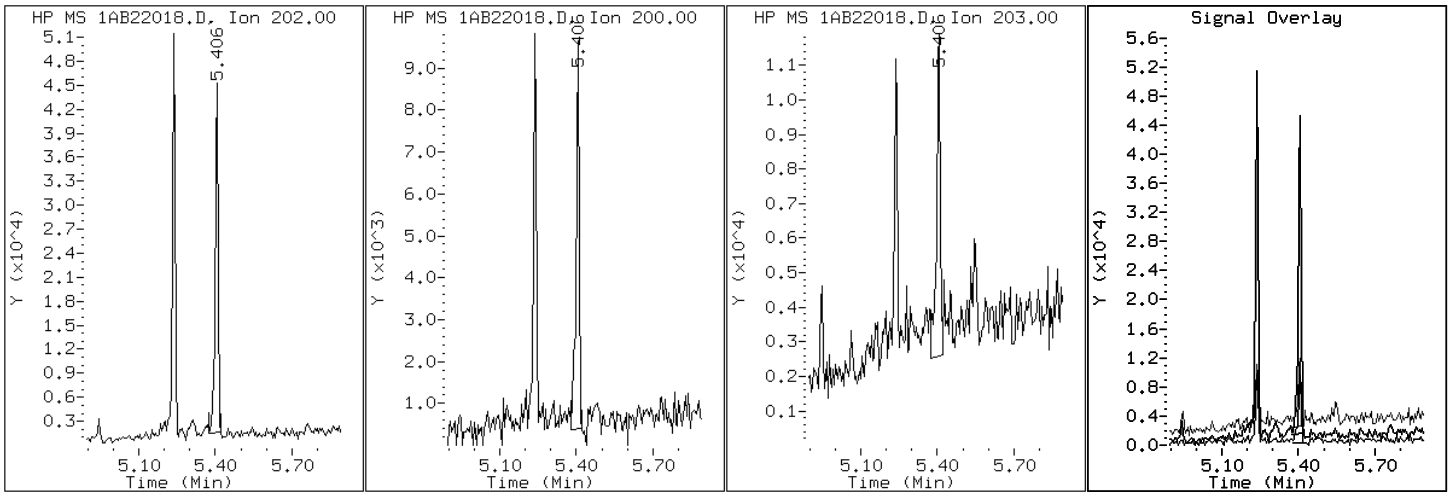
Client ID: FM0160H-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-58-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22018.D
Inj. Date and Time: 22-FEB-2013 14:54
Instrument ID: BSMA5973.i
Client ID: FM0160H-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

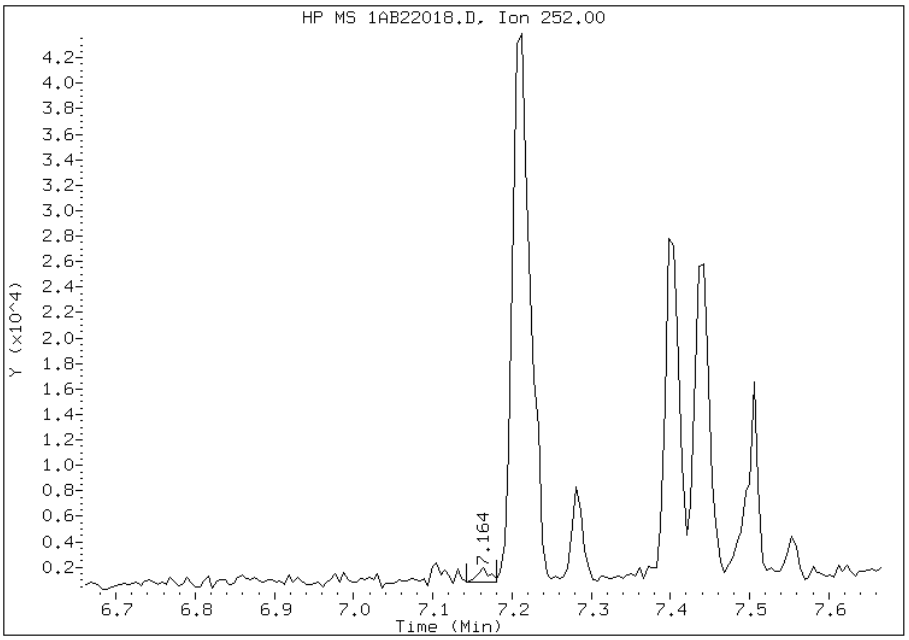
Processing Integration Results

RT: 7.16

Response: 1123

Amount: 0

Conc: 2



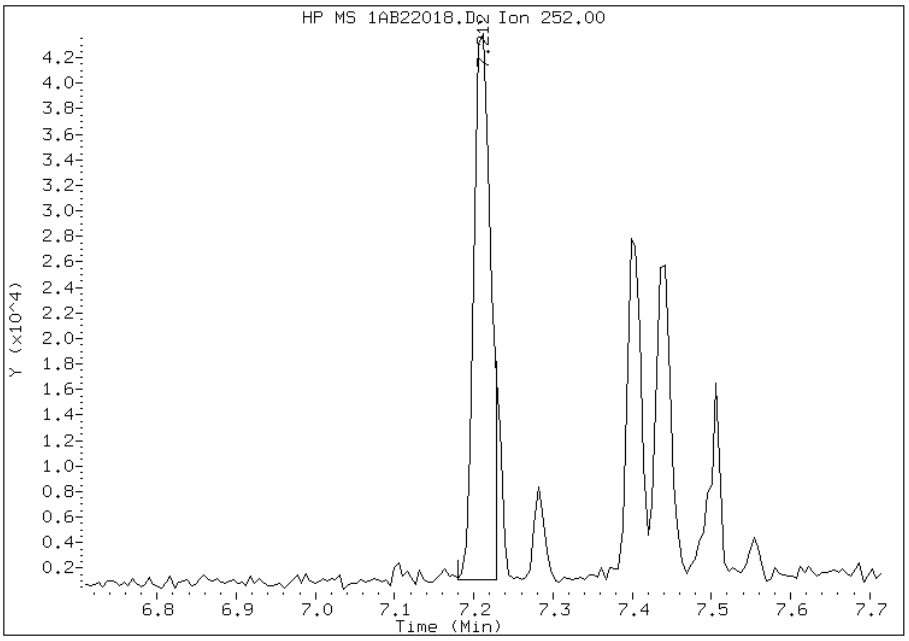
Manual Integration Results

RT: 7.21

Response: 63507

Amount: 2

Conc: 137



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:27
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22018.D
Inj. Date and Time: 22-FEB-2013 14:54
Instrument ID: BSMA5973.i
Client ID: FM0160H-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

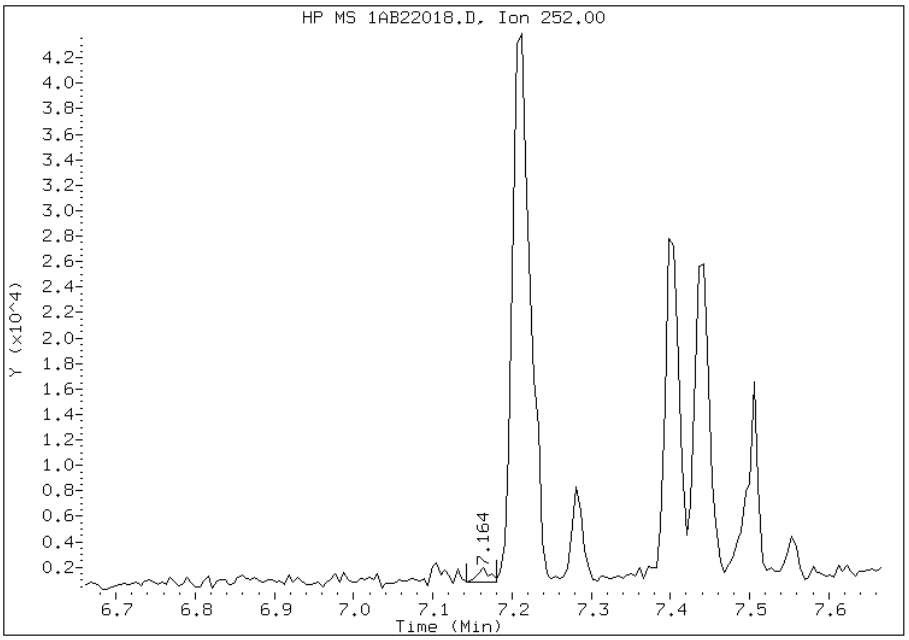
Processing Integration Results

RT: 7.16

Response: 1123

Amount: 0

Conc: 2



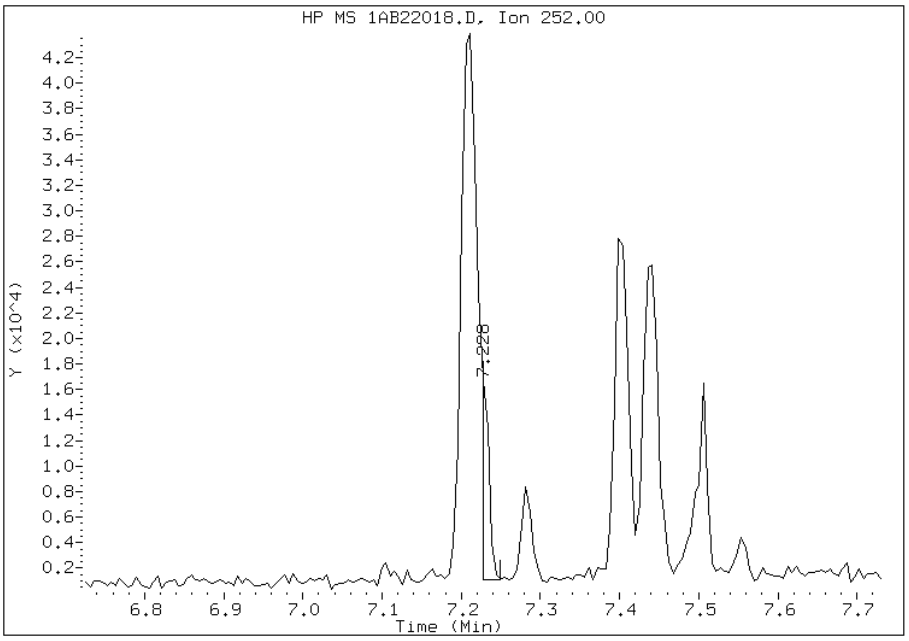
Manual Integration Results

RT: 7.23

Response: 9972

Amount: 0

Conc: 21



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:27
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22018.D
Inj. Date and Time: 22-FEB-2013 14:54
Instrument ID: BSMA5973.i
Client ID: FM0160H-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

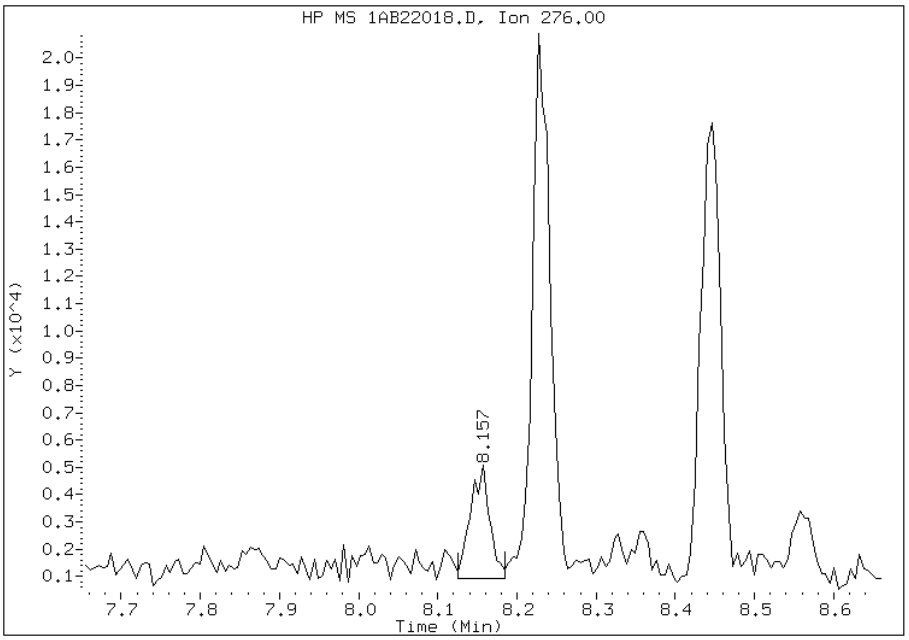
Processing Integration Results

RT: 8.16

Response: 6937

Amount: 0

Conc: 19



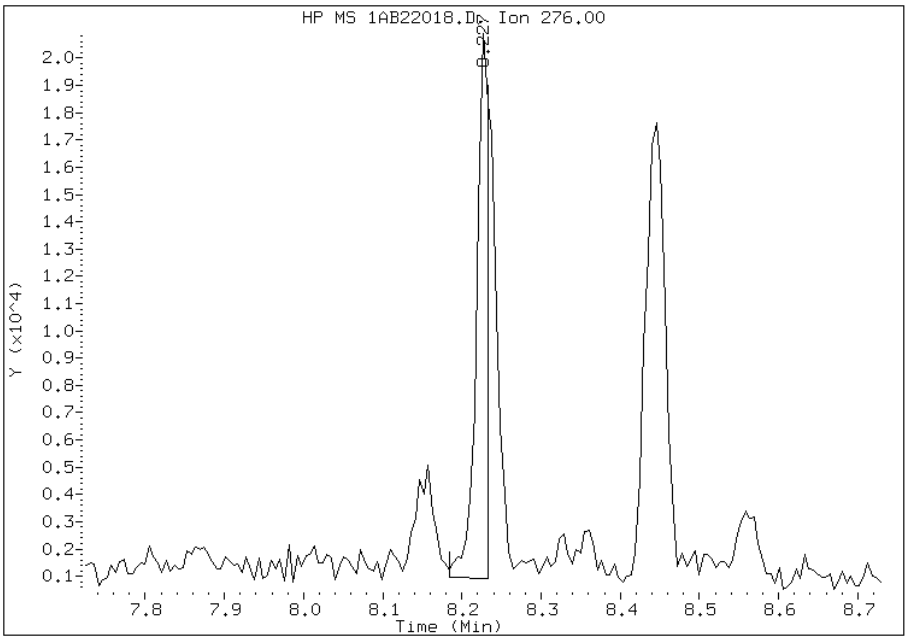
Manual Integration Results

RT: 8.23

Response: 20498

Amount: 1

Conc: 56



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:28
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: FM0160I-CS | Lab Sample ID: 680-87496-59

Matrix: Solid | Lab File ID: 1AB22019.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:02

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.20(g) | Date Analyzed: 02/22/2013 15:09

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.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	100	U	100	21
208-96-8	Acenaphthylene	9.1	J	42	5.2
120-12-7	Anthracene	12		8.8	4.4
56-55-3	Benzo[a]anthracene	69		8.3	4.1
50-32-8	Benzo[a]pyrene	47		11	5.4
205-99-2	Benzo[b]fluoranthene	64		13	6.4
191-24-2	Benzo[g,h,i]perylene	47		21	4.6
207-08-9	Benzo[k]fluoranthene	41		8.3	3.8
218-01-9	Chrysene	84		9.4	4.7
53-70-3	Dibenz(a,h)anthracene	17	J	21	4.3
206-44-0	Fluoranthene	72		21	4.2
86-73-7	Fluorene	6.3	J	21	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	45		21	7.4
90-12-0	1-Methylnaphthalene	49		42	4.6
91-57-6	2-Methylnaphthalene	59		42	7.4
91-20-3	Naphthalene	53		42	4.6
85-01-8	Phenanthrene	68		8.3	4.1
129-00-0	Pyrene	79		21	3.9

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\1A022213_IC.b\1AB22019.D
Lab Smp Id: 680-87496-A-59-A Client Smp ID: FM0160I-CS
Inj Date : 22-FEB-2013 15:09
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-59-a
Misc Info : 680-87496-A-59-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 19
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	15.200	Weight Extracted
M	5.385	% 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	2.399	2.397	(1.000)	928554	40.0000	
* 6 Acenaphthene-d10	164	3.424	3.417	(1.000)	800085	40.0000	
* 10 Phenanthrene-d10	188	4.365	4.352	(1.000)	997823	40.0000	
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* 18 Chrysene-d12	240	6.384	6.366	(1.000)	649137	40.0000	
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2 Naphthalene	128	2.409	2.402	(1.004)	17110	0.76470	53.1726
3 2-Methylnaphthalene	141	2.810	2.808	(1.171)	9803	0.84870	59.0130
4 1-Methylnaphthalene	142	2.869	2.861	(1.196)	8996	0.69940	48.6320
5 Acenaphthylene	152	3.339	3.332	(0.975)	3912	0.13095	9.1054
9 Fluorene	166	3.750	3.743	(1.095)	1968	0.09033	6.2809
11 Phenanthrene	178	4.375	4.368	(1.002)	24391	0.98341	68.3799
12 Anthracene	178	4.407	4.400	(1.010)	4149	0.17222	11.9747
13 Carbazole	167	4.568	4.555	(1.047)	2925	0.13753	9.5632

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.235	5.228	(1.199)	25836	1.04182	72.4412
16 Pyrene	202	5.401	5.394	(0.846)	21717	1.14059	79.3095
17 Benzo(a)anthracene	228	6.373	6.355	(0.998)	19241	0.99269	69.0251
19 Chrysene	228	6.395	6.387	(1.002)	20910	1.20623	83.8734
20 Benzo(b)fluoranthene	252	7.196	7.178	(0.961)	23226	0.92466	64.2946(M)
21 Benzo(k)fluoranthene	252	7.201	7.199	(0.962)	14753	0.58380	40.5934(MH)
22 Benzo(a)pyrene	252	7.426	7.408	(0.992)	15650	0.68034	47.3063
24 Indeno(1,2,3-cd)pyrene	276	8.206	8.177	(1.096)	12780	0.64759	45.0290(M)
25 Dibenzo(a,h)anthracene	278	8.211	8.193	(1.097)	5151	0.25047	17.4161
26 Benzo(g,h,i)perylene	276	8.414	8.385	(1.124)	14165	0.67484	46.9241

QC Flag Legend

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

Data File: 1AB22019.D

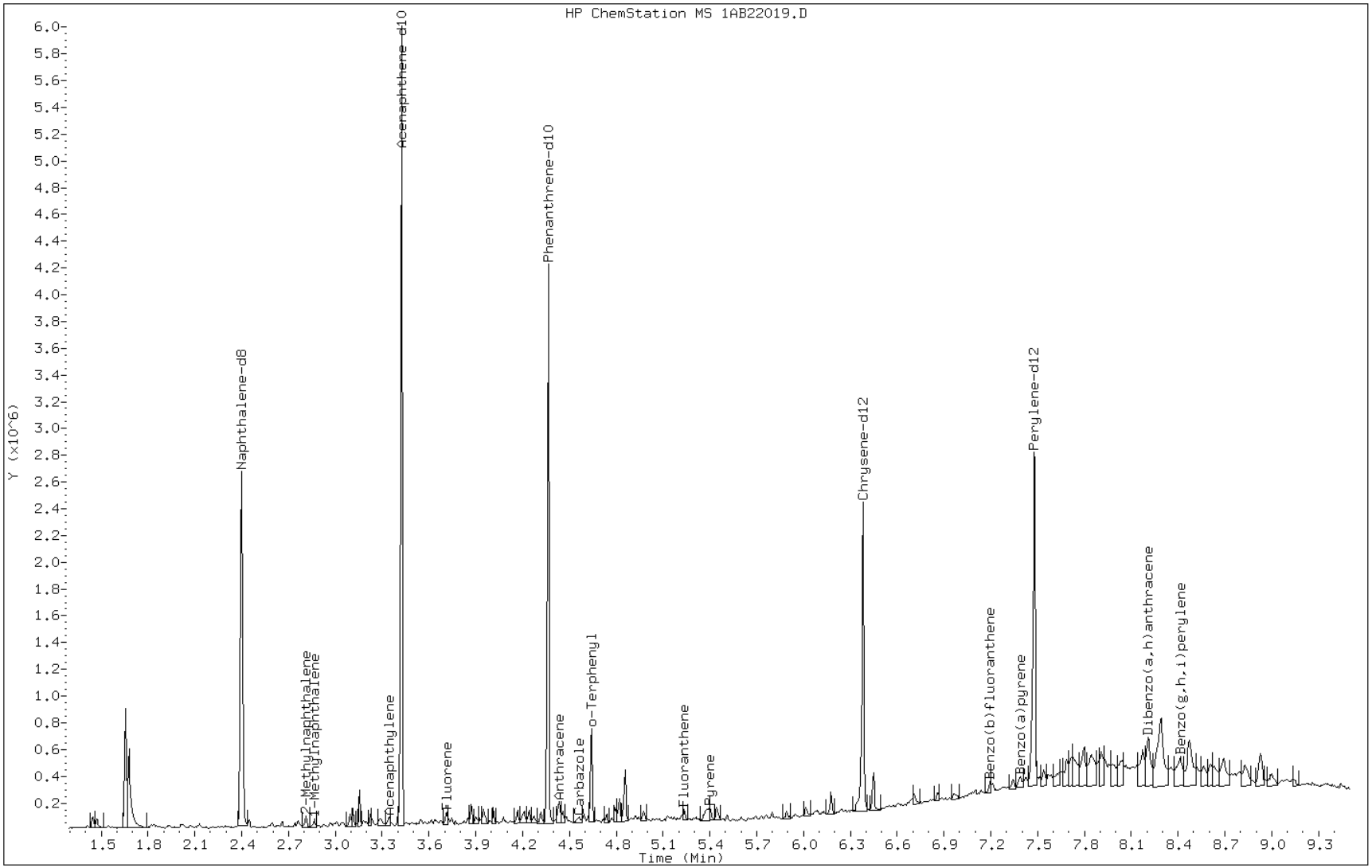
Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a

Operator: SCC



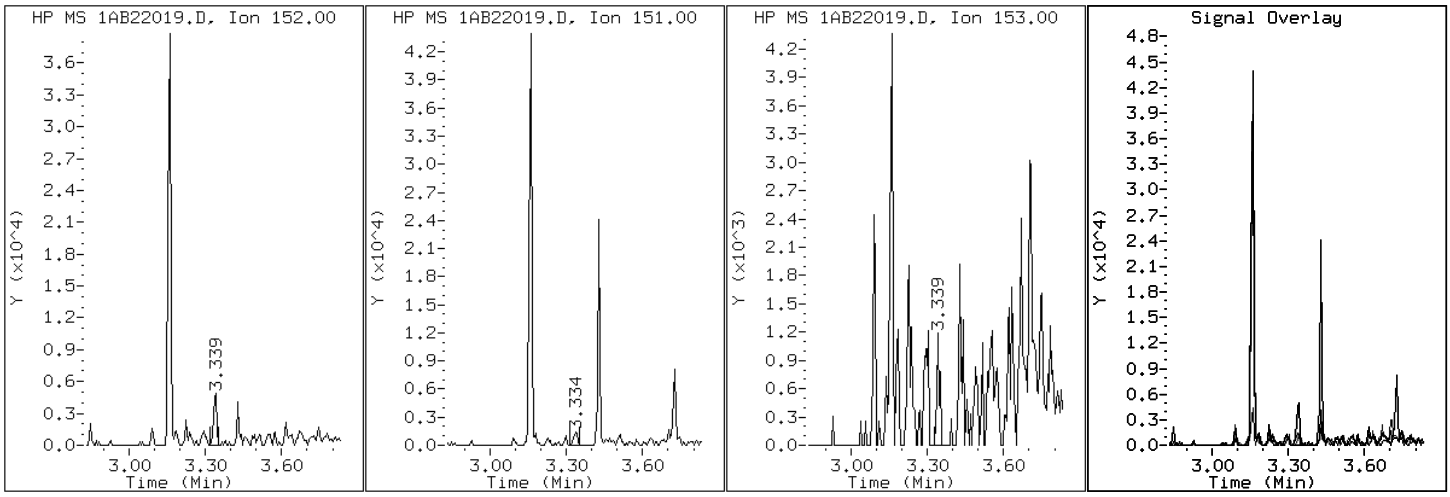
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

5 Acenaphthylene



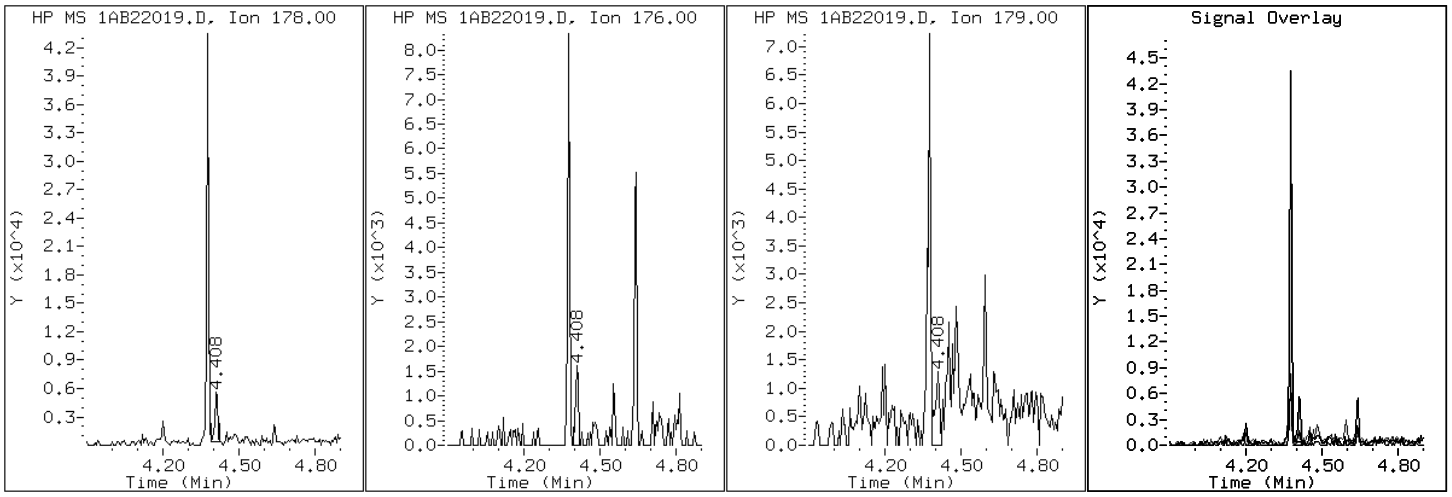
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

12 Anthracene



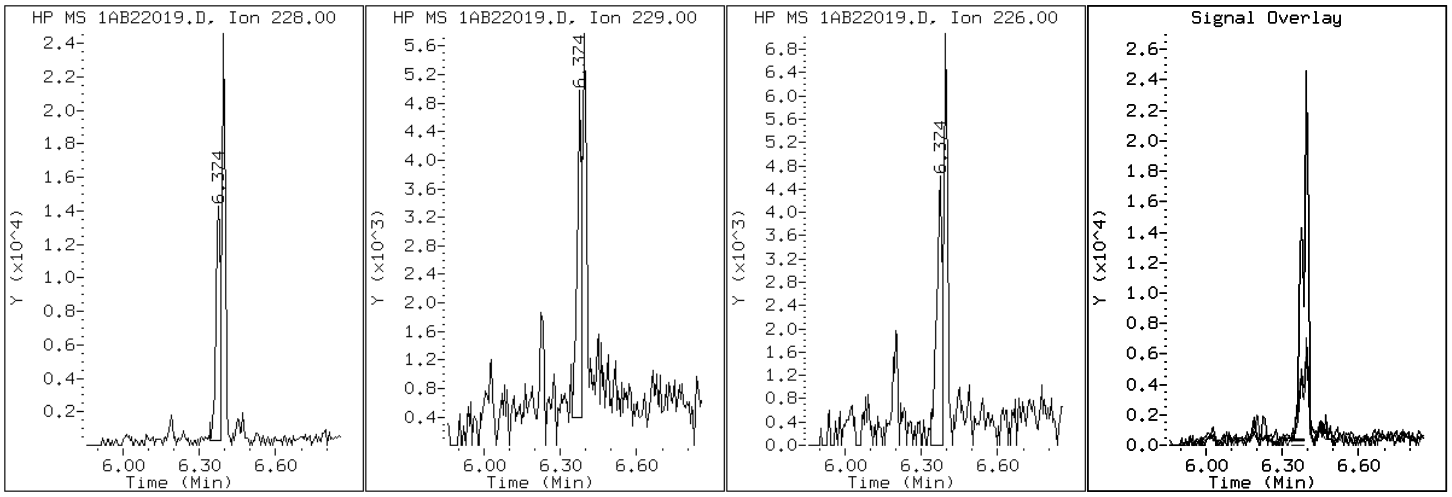
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

17 Benzo(a)anthracene



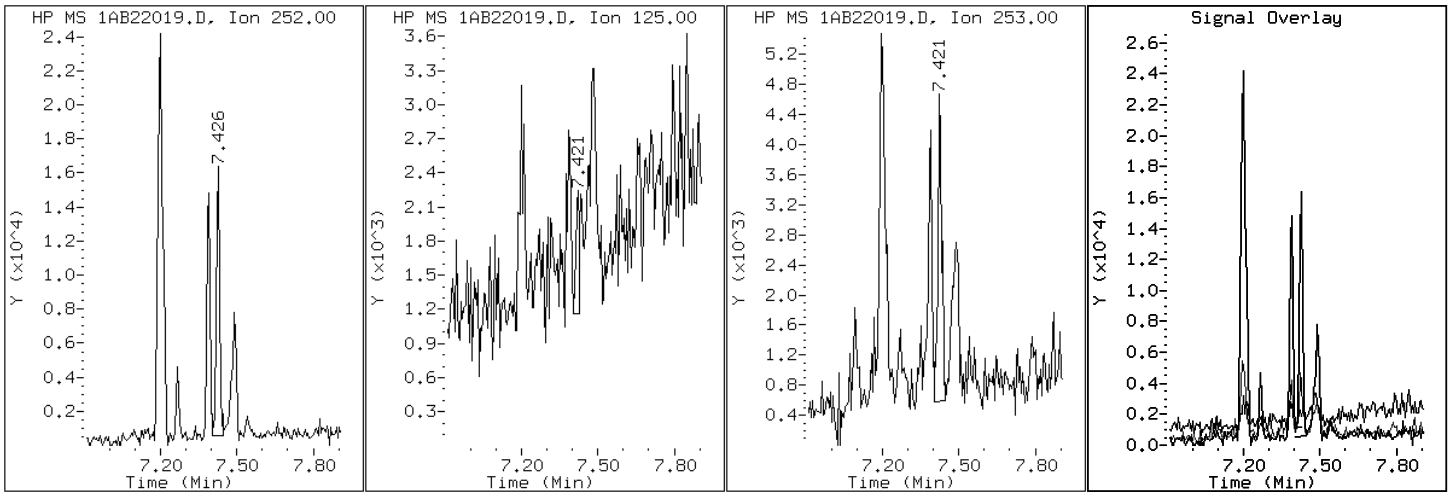
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

22 Benzo(a)pyrene



Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

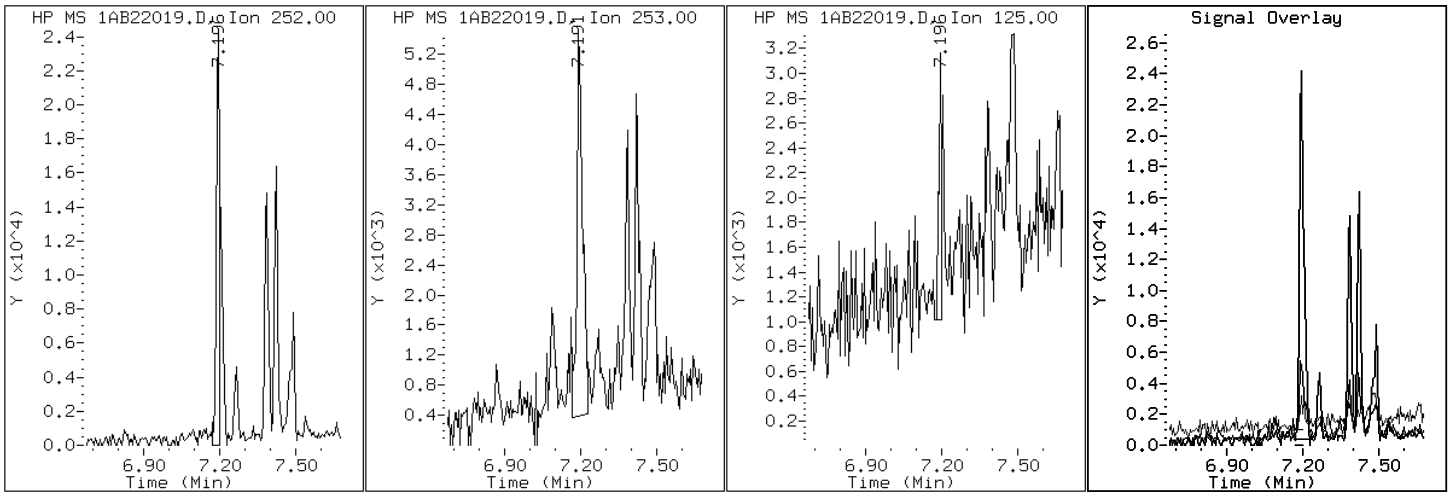
Client ID: FM0160I-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a

Operator: SCC

20 Benzo(b)fluoranthene



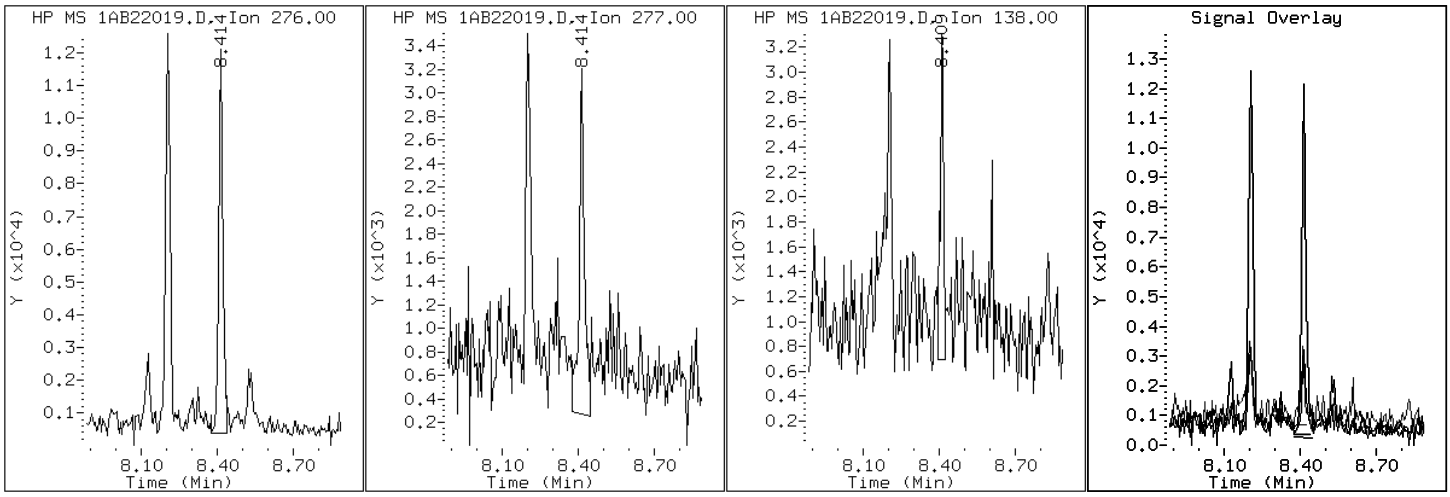
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

26 Benzo(g,h,i)perylene



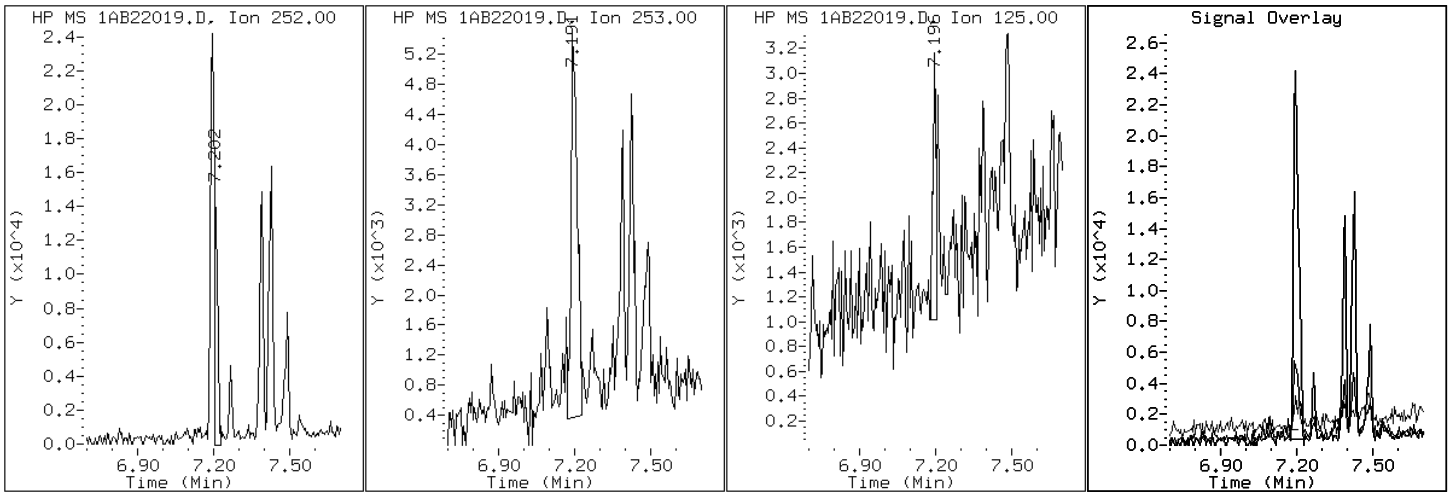
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

21 Benzo(k)fluoranthene



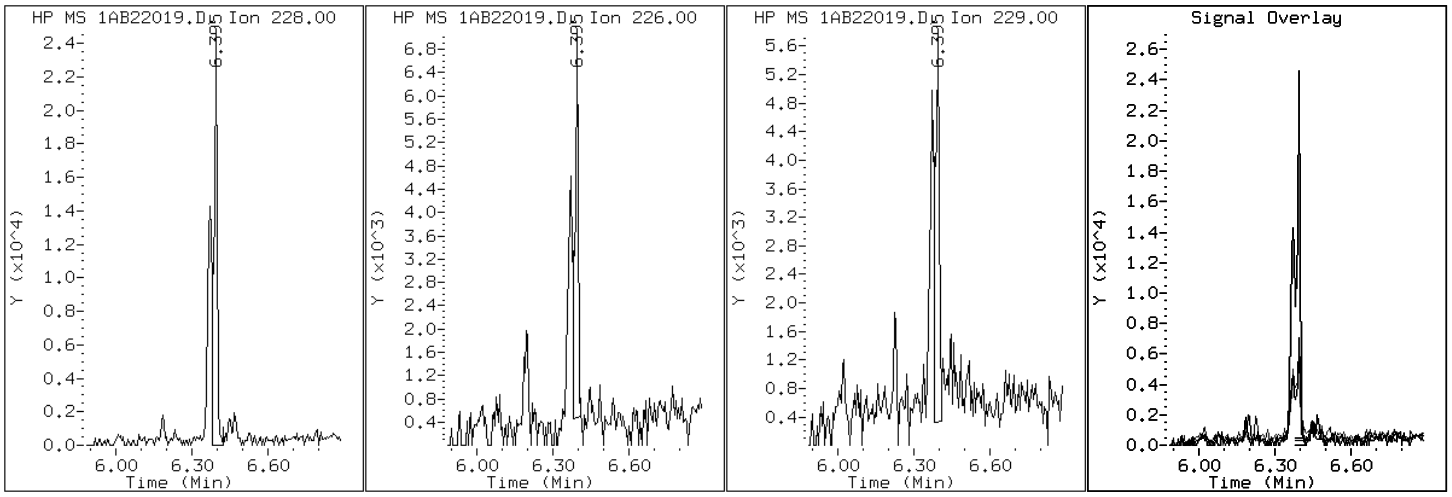
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

19 Chrysene



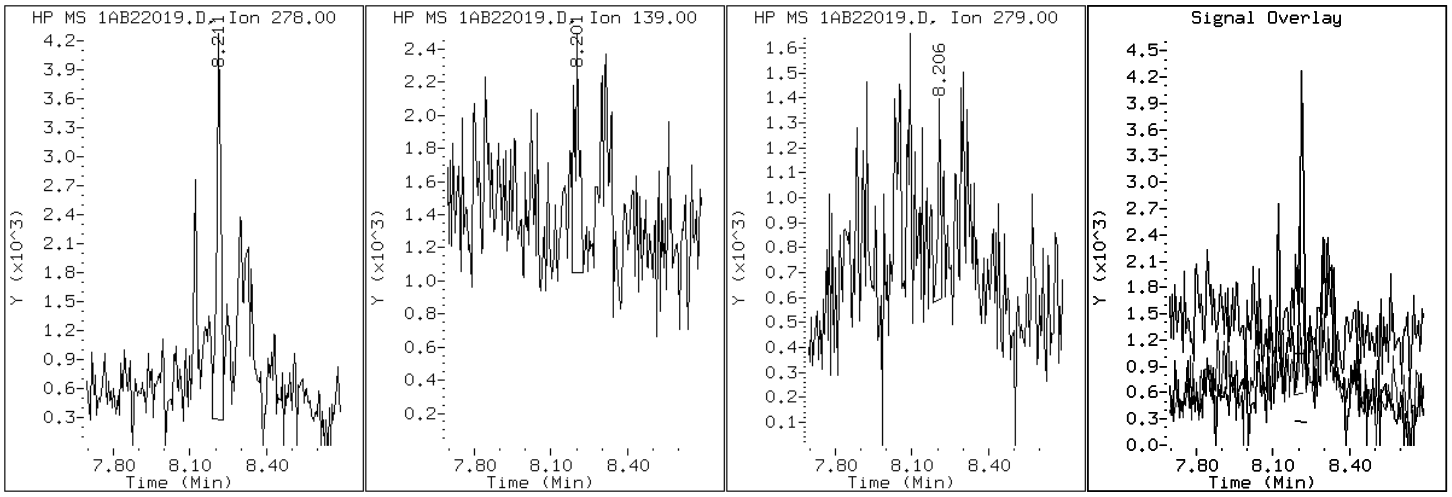
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

25 Dibenzo(a,h)anthracene



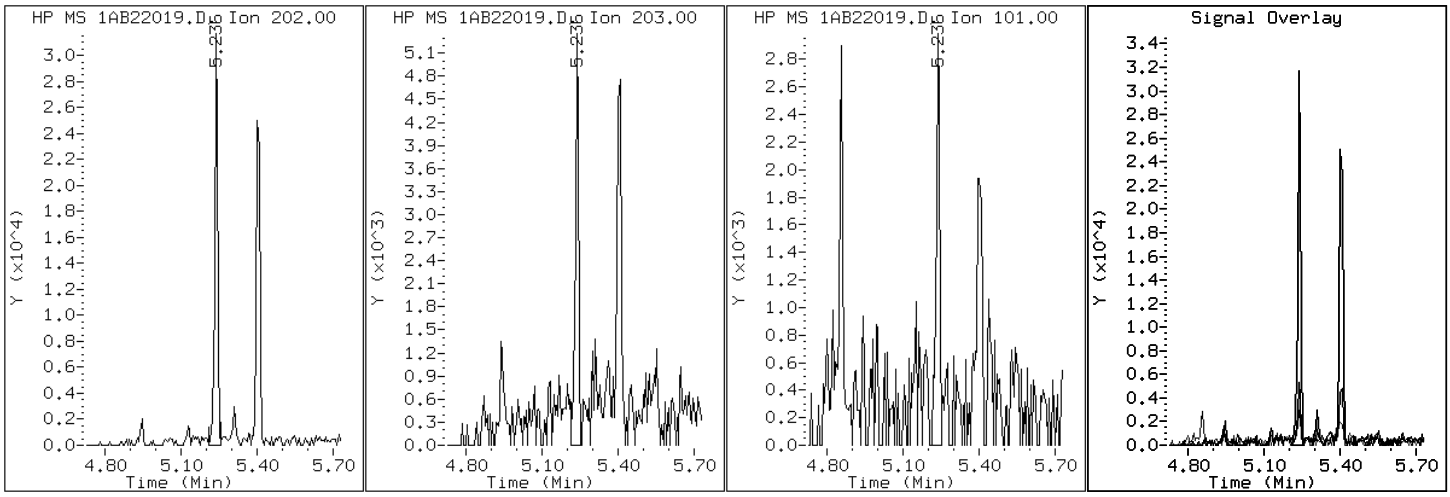
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

15 Fluoranthene



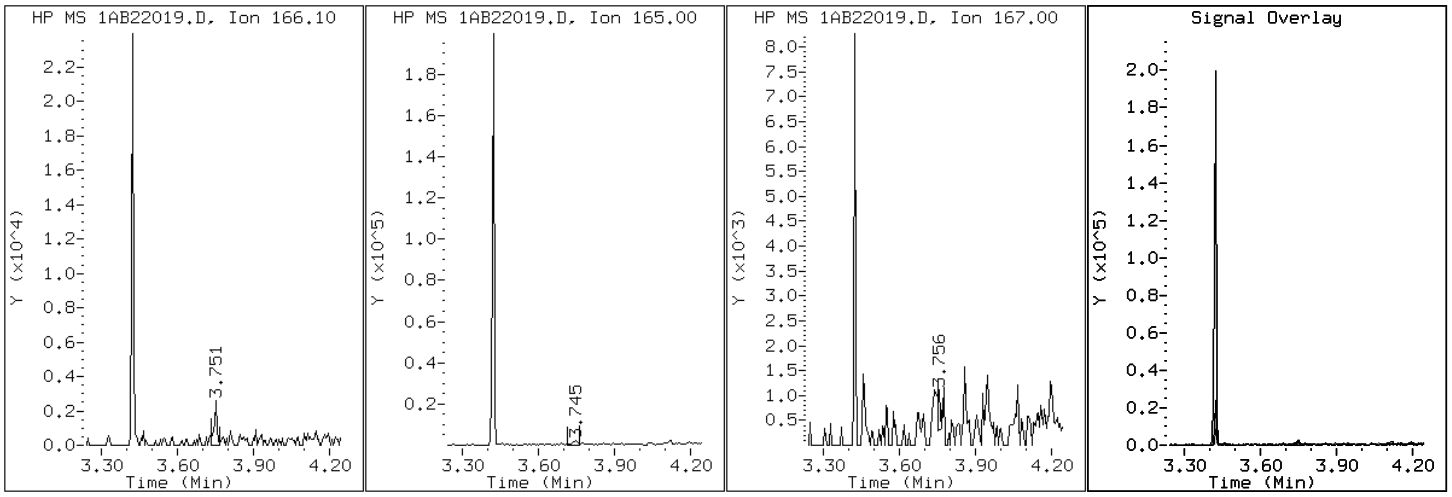
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

9 Fluorene



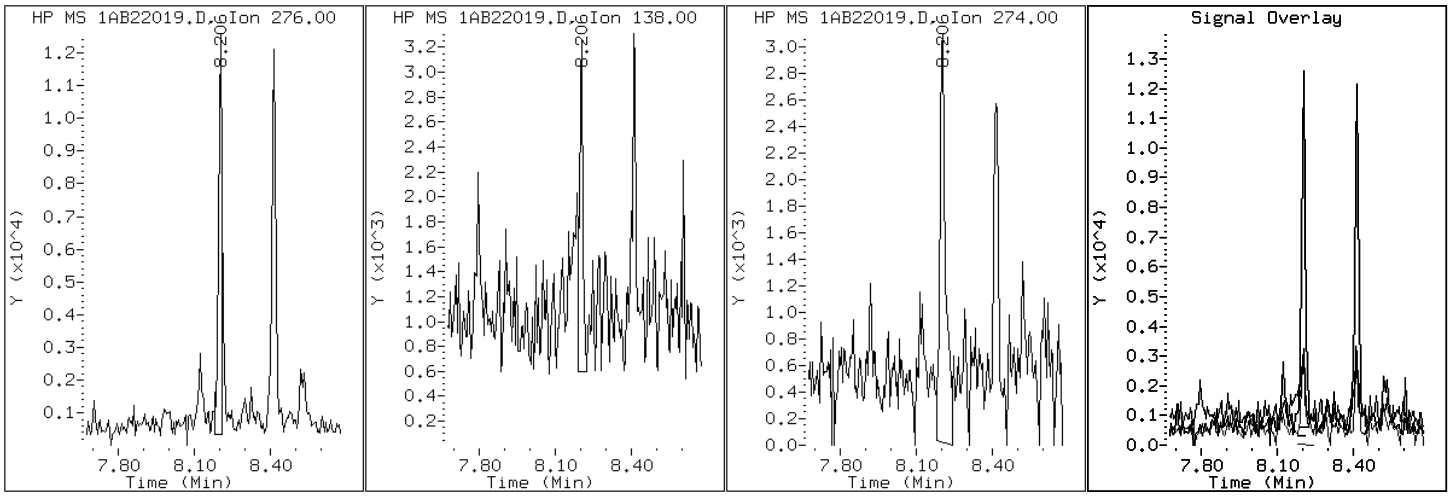
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

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



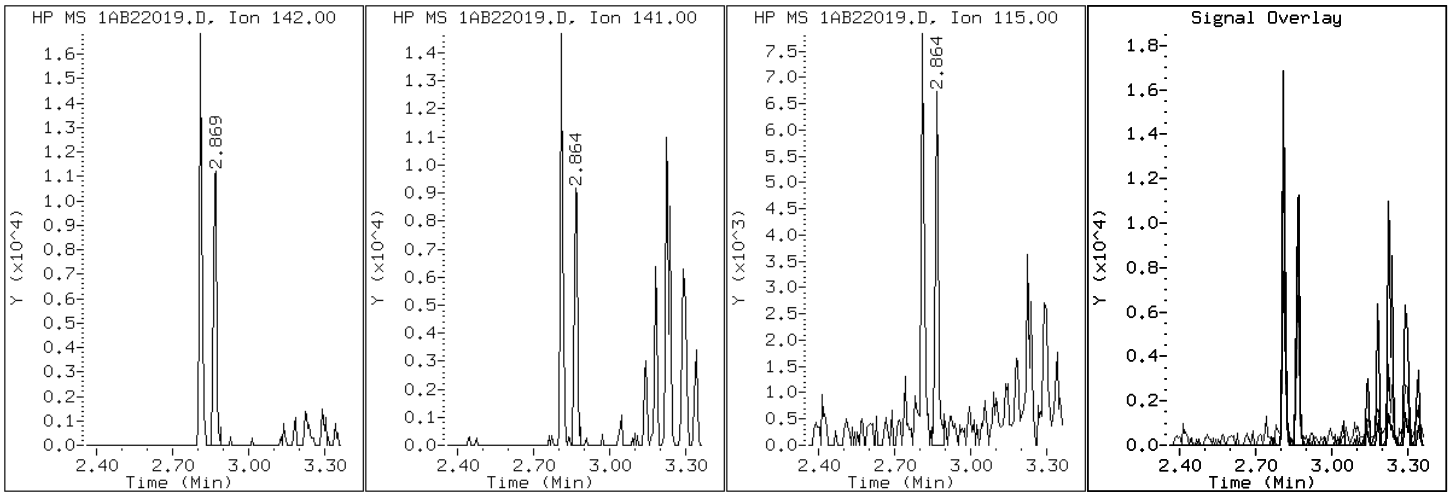
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

4 1-Methylnaphthalene



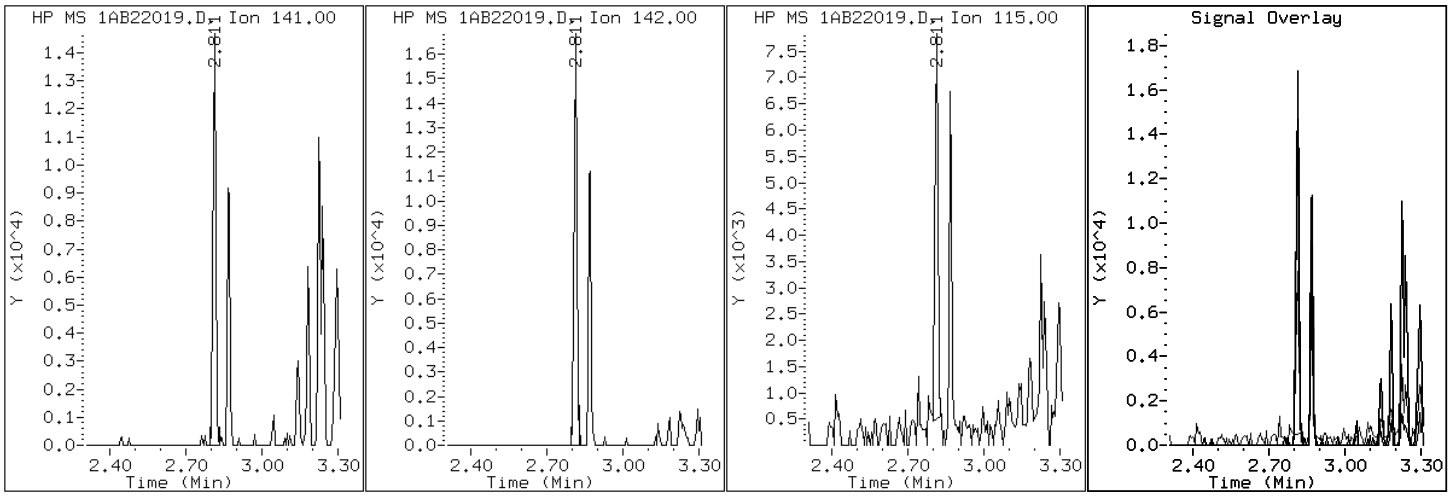
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

3 2-Methylnaphthalene



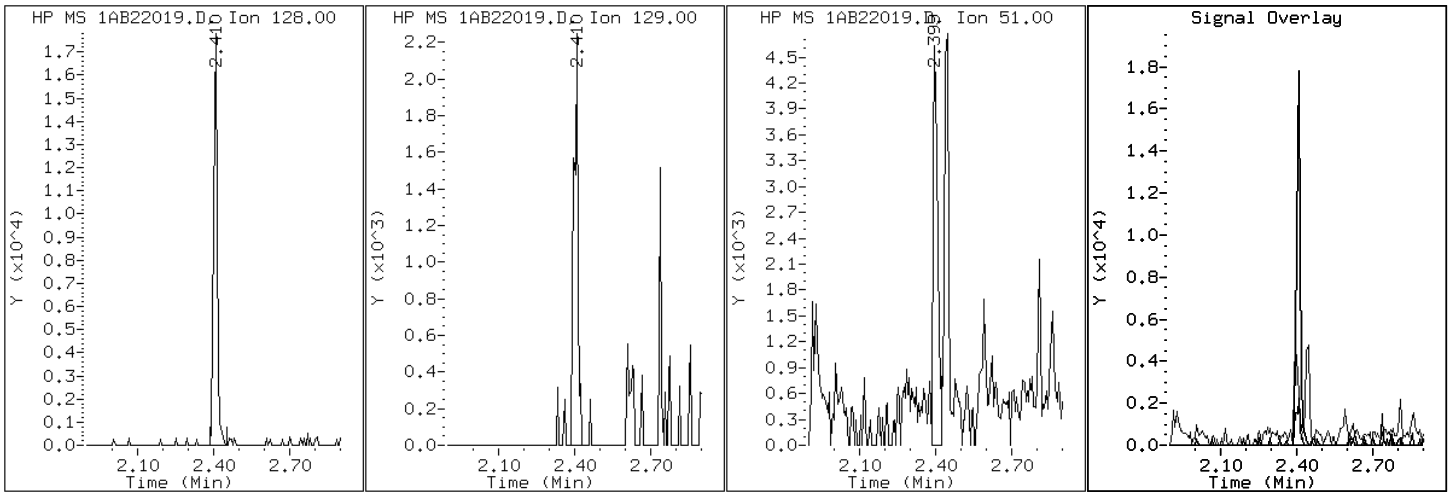
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

2 Naphthalene



Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

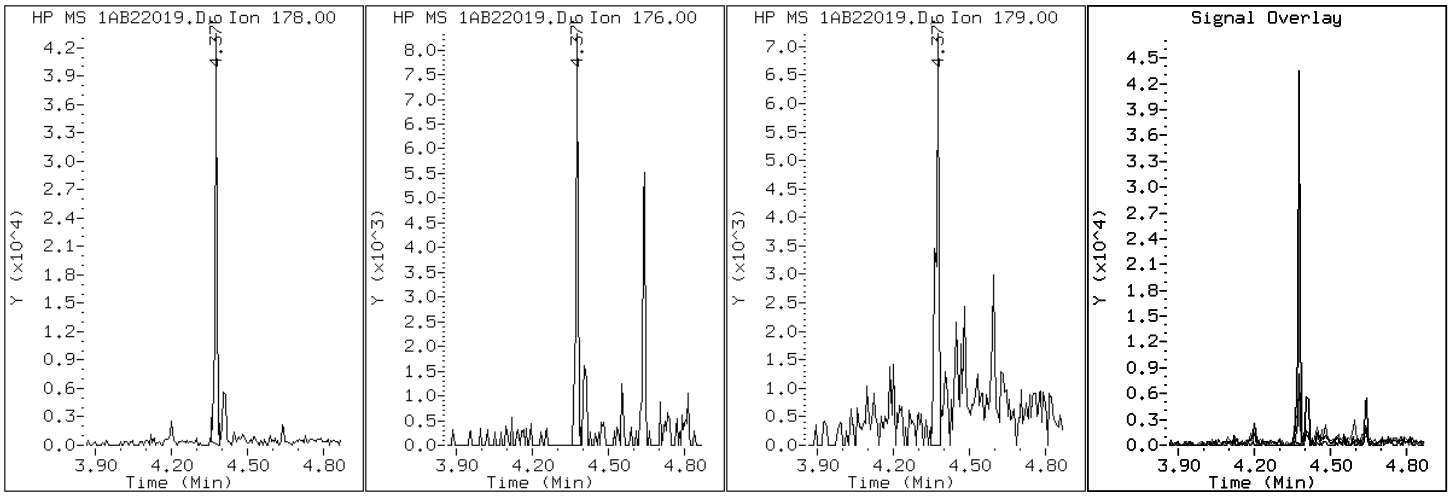
Client ID: FM0160I-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a

Operator: SCC

11 Phenanthrene



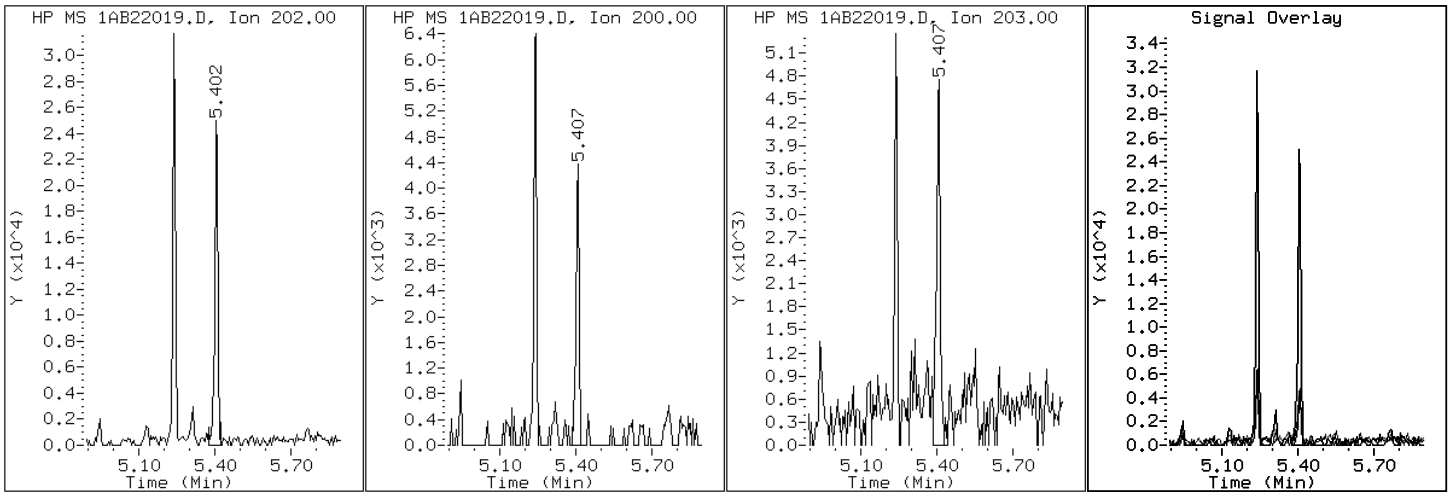
Data File: 1AB22019.D

Date: 22-FEB-2013 15:09

Client ID: FM0160I-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-59-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22019.D
Inj. Date and Time: 22-FEB-2013 15:09
Instrument ID: BSMA5973.i
Client ID: FM0160I-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

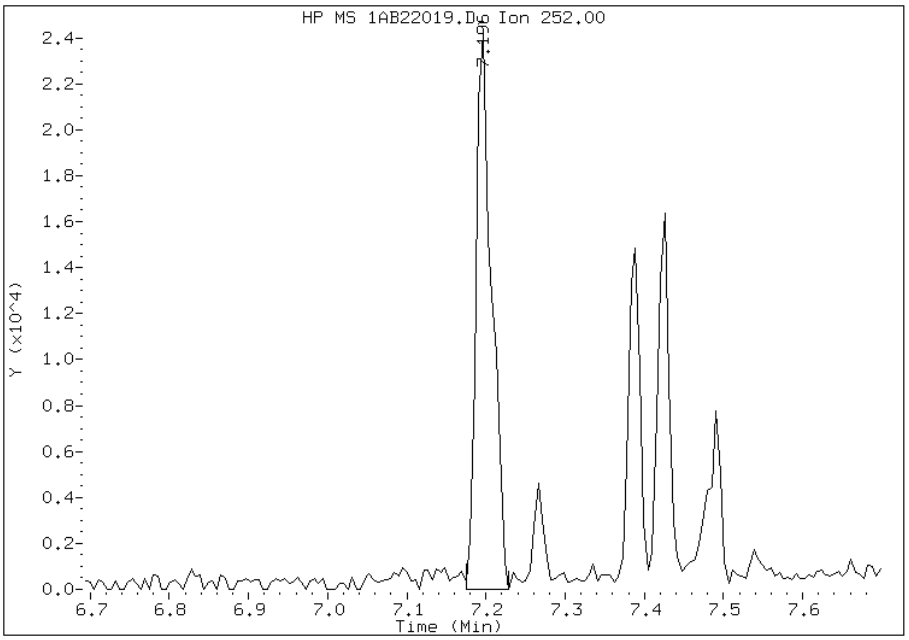
Processing Integration Results

RT: 7.20

Response: 32923

Amount: 1

Conc: 91



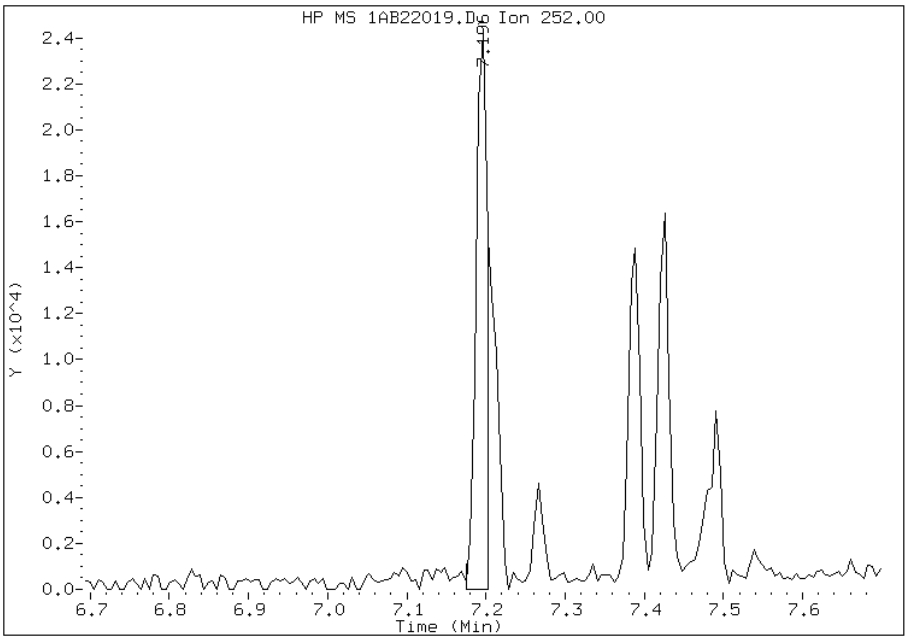
Manual Integration Results

RT: 7.20

Response: 23226

Amount: 1

Conc: 64



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:36
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22019.D
Inj. Date and Time: 22-FEB-2013 15:09
Instrument ID: BSMA5973.i
Client ID: FM0160I-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

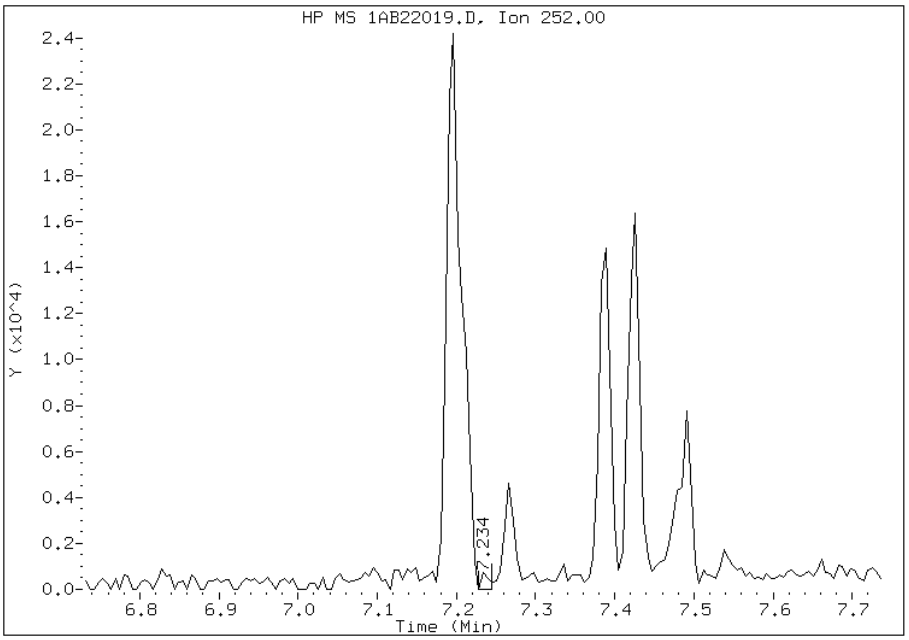
Processing Integration Results

RT: 7.23

Response: 494

Amount: 0

Conc: 1



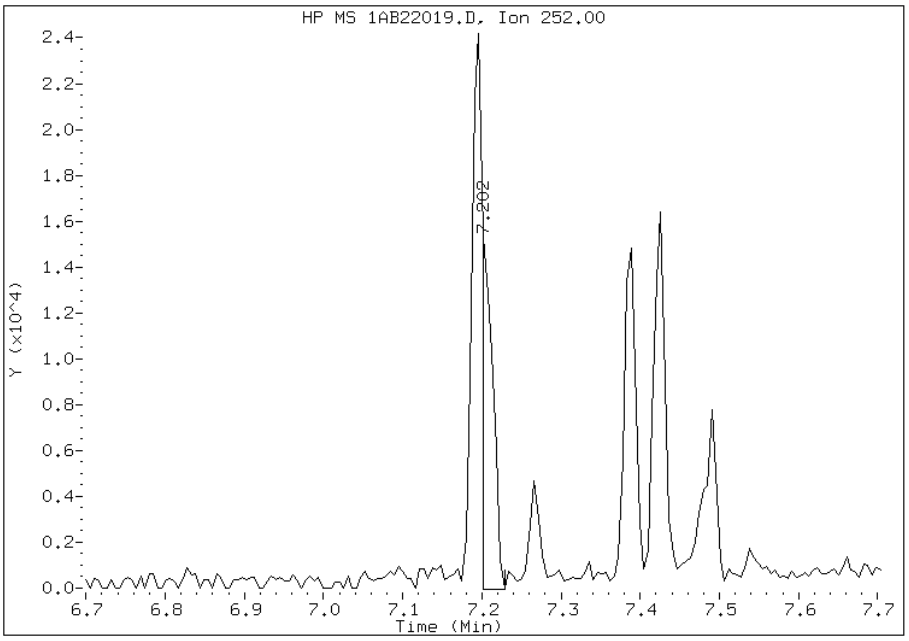
Manual Integration Results

RT: 7.20

Response: 14753

Amount: 1

Conc: 41



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22019.D
Inj. Date and Time: 22-FEB-2013 15:09
Instrument ID: BSMA5973.i
Client ID: FM0160I-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

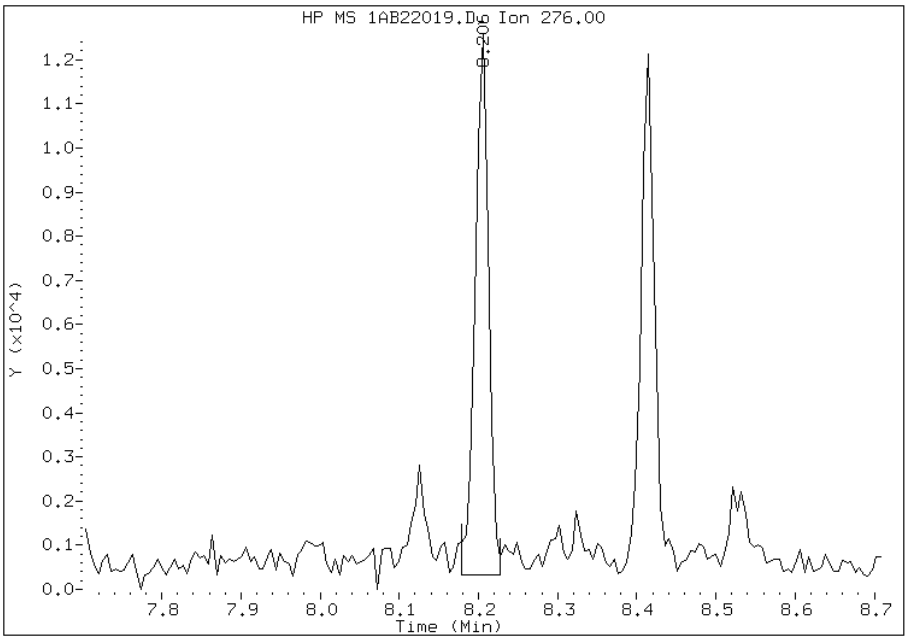
Processing Integration Results

RT: 8.21

Response: 14286

Amount: 1

Conc: 50



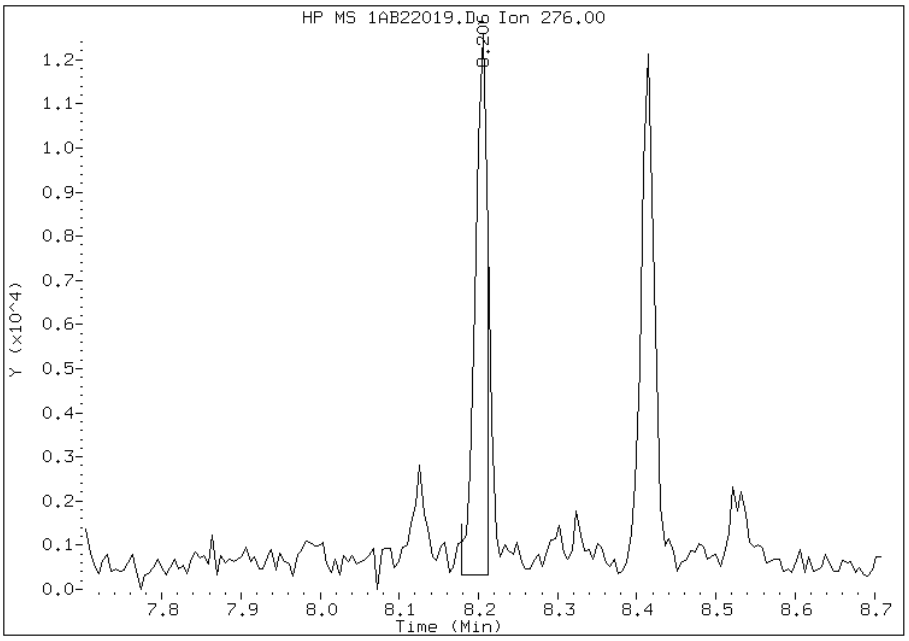
Manual Integration Results

RT: 8.21

Response: 12780

Amount: 1

Conc: 45



Manually Integrated By: cantins
Modification Date: 25-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.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: FM0160J-CS | Lab Sample ID: 680-87496-60

Matrix: Solid | Lab File ID: 1AB22020.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 16:03

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.41(g) | Date Analyzed: 02/22/2013 15:24

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

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

% Moisture: 10.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134771 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	110	U	110	22
208-96-8	Acenaphthylene	7.0	J	43	5.4
120-12-7	Anthracene	11		9.1	4.6
56-55-3	Benzo[a]anthracene	53		8.7	4.2
50-32-8	Benzo[a]pyrene	36		11	5.6
205-99-2	Benzo[b]fluoranthene	52		13	6.6
191-24-2	Benzo[g,h,i]perylene	38		22	4.8
207-08-9	Benzo[k]fluoranthene	20		8.7	3.9
218-01-9	Chrysene	60		9.8	4.9
53-70-3	Dibenz(a,h)anthracene	11	J	22	4.4
206-44-0	Fluoranthene	53		22	4.3
86-73-7	Fluorene	4.9	J	22	4.4
193-39-5	Indeno[1,2,3-cd]pyrene	31		22	7.7
90-12-0	1-Methylnaphthalene	100		43	4.8
91-57-6	2-Methylnaphthalene	120		43	7.7
91-20-3	Naphthalene	76		43	4.8
85-01-8	Phenanthrene	74		8.7	4.2
129-00-0	Pyrene	67		22	4.0

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22020.D
Lab Smp Id: 680-87496-A-60-A Client Smp ID: FM0160J-CS
Inj Date : 22-FEB-2013 15:24
Operator : SCC Inst ID: BSMA5973.i
Smp Info : 680-87496-a-60-a
Misc Info : 680-87496-A-60-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 20
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	15.410	Weight Extracted
M	10.184	% 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	2.402	2.397	(1.000)	908419	40.0000	
* 6 Acenaphthene-d10	164	3.422	3.417	(1.000)	729424	40.0000	
* 10 Phenanthrene-d10	188	4.363	4.352	(1.000)	1049240	40.0000	
$ 14 o-Terphenyl	230	4.640	4.635	(1.064)	104690	6.85703	495.4250
* 18 Chrysene-d12	240	6.382	6.366	(1.000)	592032	40.0000	
* 23 Perylene-d12	264	7.482	7.456	(1.000)	858327	40.0000	
2 Naphthalene	128	2.407	2.402	(1.002)	23023	1.05178	75.9920
3 2-Methylnaphthalene	141	2.813	2.808	(1.171)	18649	1.65033	119.2373
4 1-Methylnaphthalene	142	2.867	2.861	(1.193)	17604	1.39898	101.0769
5 Acenaphthylene	152	3.337	3.332	(0.975)	2626	0.09642	6.9662
9 Fluorene	166	3.748	3.743	(1.095)	1340	0.06746	4.8742(Q)
11 Phenanthrene	178	4.373	4.368	(1.002)	26574	1.01892	73.6176
12 Anthracene	178	4.411	4.400	(1.011)	3899	0.15391	11.1199
13 Carbazole	167	4.566	4.555	(1.047)	2560	0.11447	8.2707(Q)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	5.239	5.228	(1.201)	19049	0.73049	52.7786
16 Pyrene	202	5.404	5.394	(0.847)	16012	0.92208	66.6207
17 Benzo(a)anthracene	228	6.371	6.355	(0.998)	12945	0.73228	52.9078
19 Chrysene	228	6.398	6.387	(1.002)	13175	0.83333	60.2087
20 Benzo(b)fluoranthene	252	7.194	7.178	(0.961)	15724	0.72266	52.2125(M)
21 Benzo(k)fluoranthene	252	7.205	7.199	(0.963)	6123	0.27971	20.2093(M)
22 Benzo(a)pyrene	252	7.424	7.408	(0.992)	9832	0.49342	35.6499
24 Indeno(1,2,3-cd)pyrene	276	8.198	8.177	(1.096)	7251	0.42416	30.6458(M)
25 Dibenzo(a,h)anthracene	278	8.209	8.193	(1.097)	2597	0.14578	10.5328
26 Benzo(g,h,i)perylene	276	8.412	8.385	(1.124)	9595	0.52771	38.1273

QC Flag Legend

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

Data File: 1AB22020.D

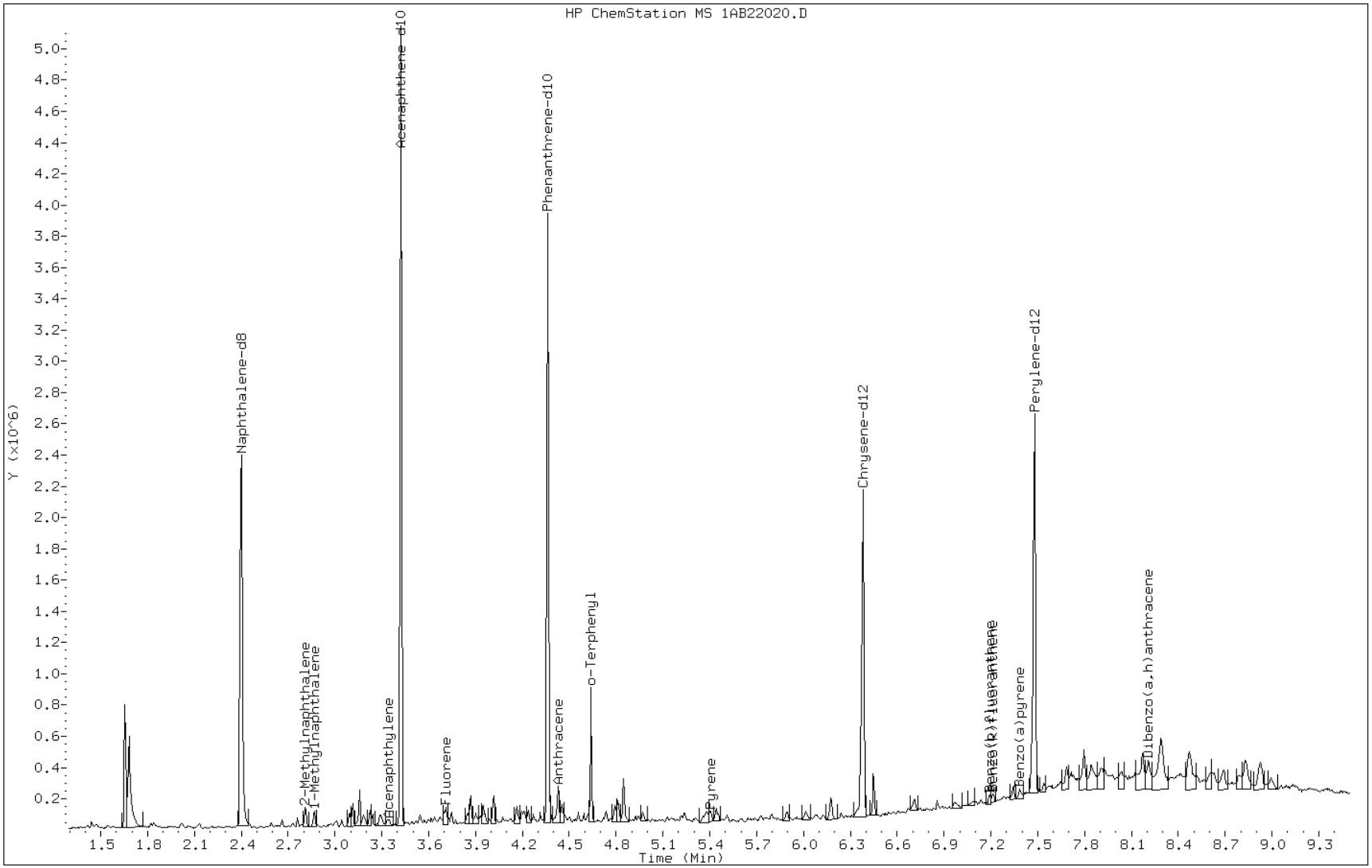
Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a

Operator: SCC



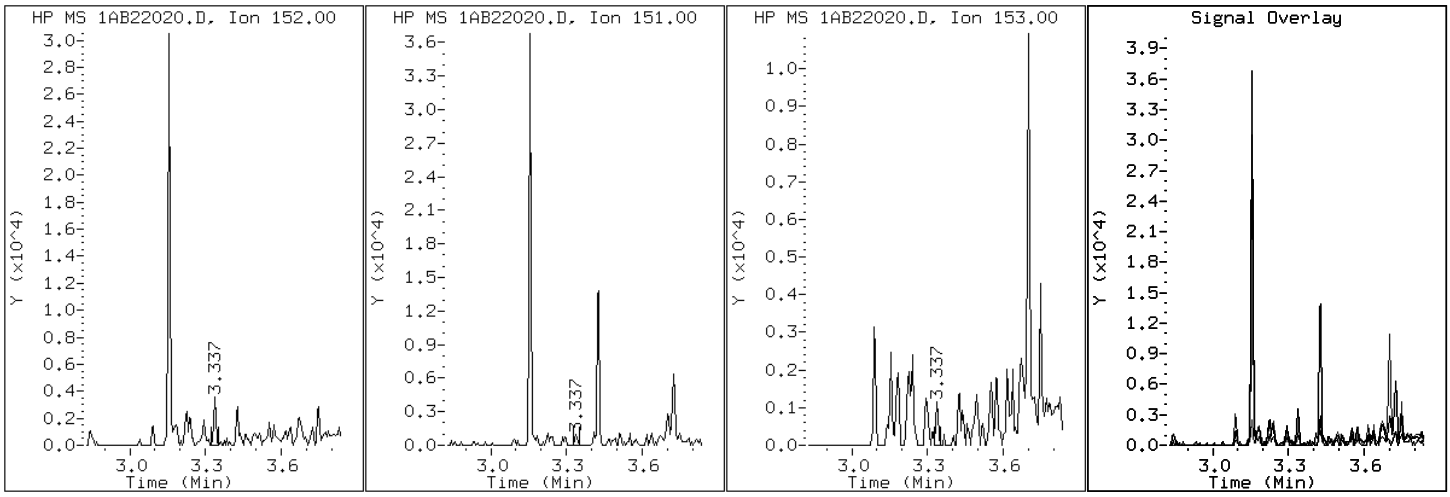
Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a Operator: SCC

5 Acenaphthylene



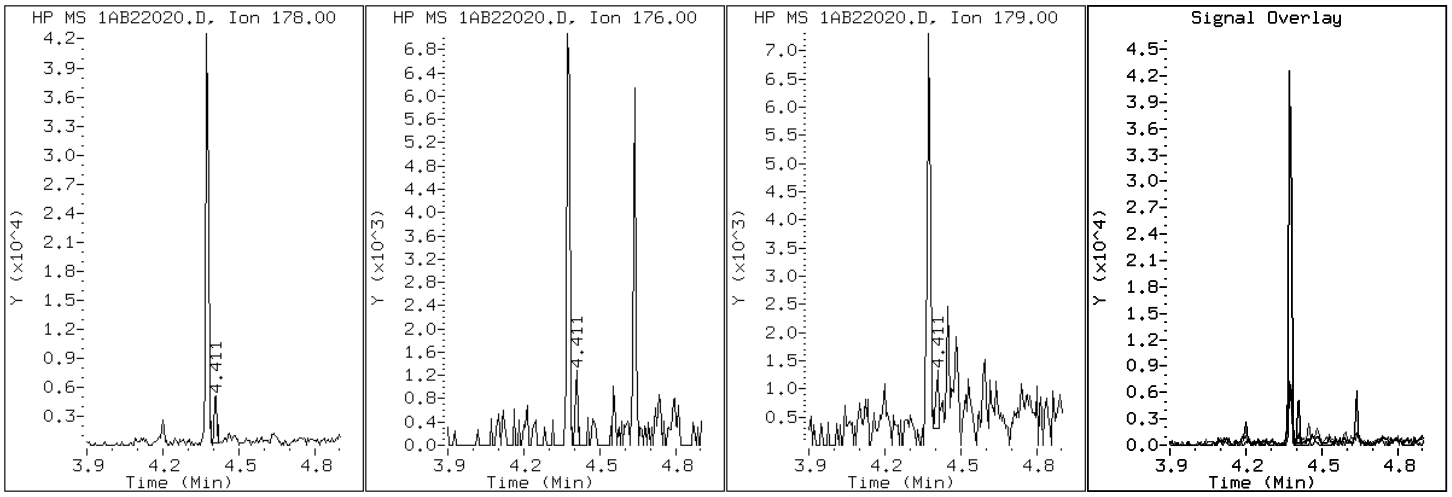
Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a Operator: SCC

12 Anthracene



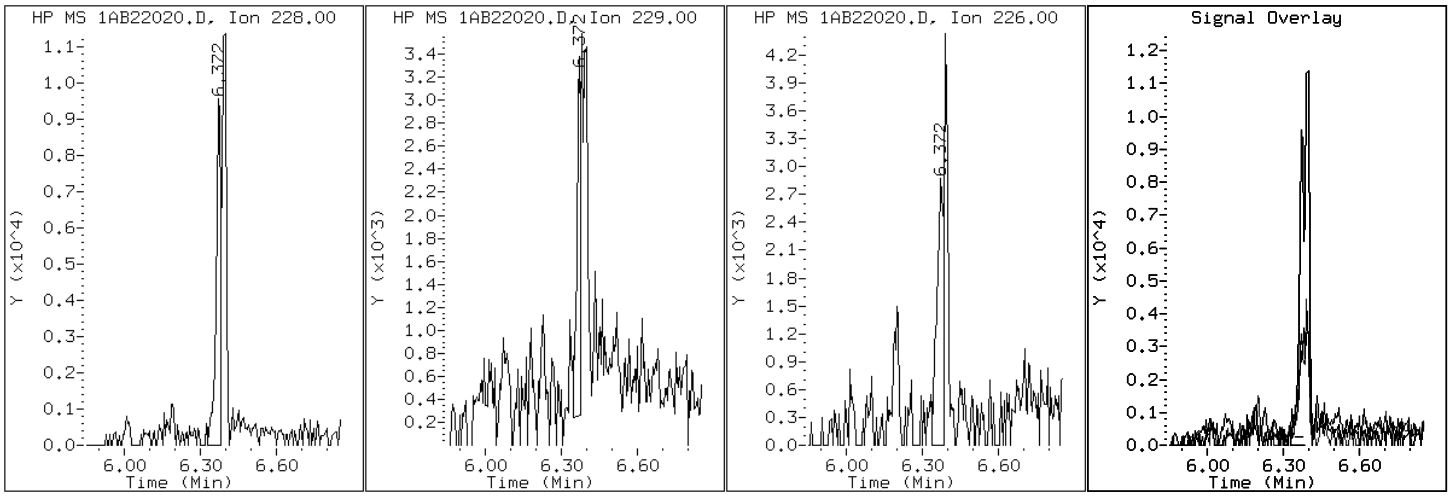
Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a Operator: SCC

17 Benzo(a)anthracene



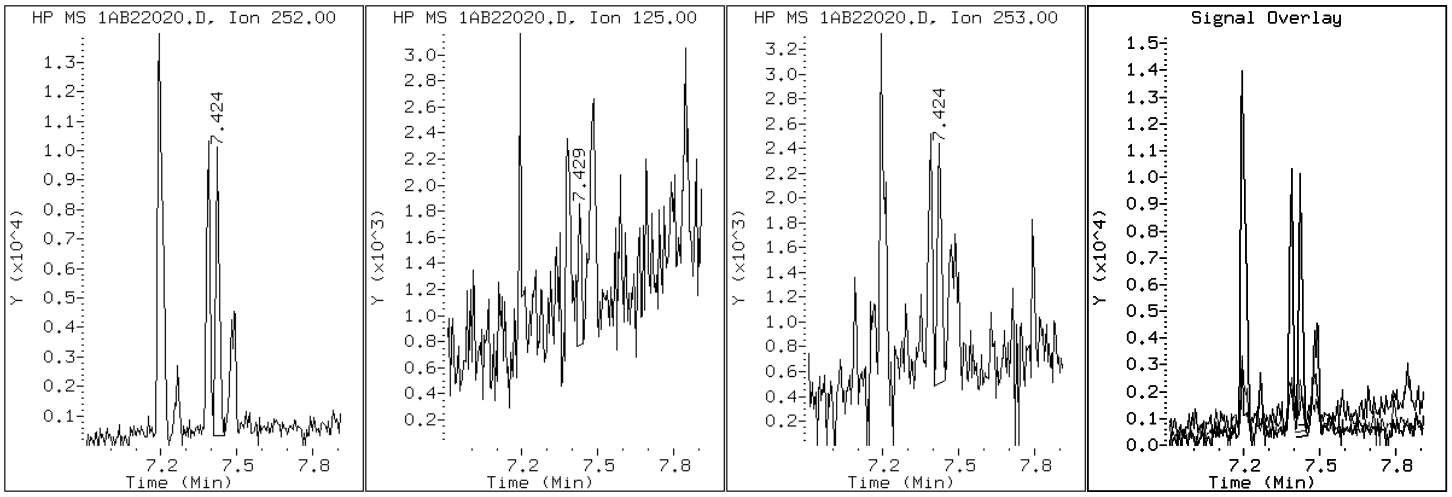
Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a Operator: SCC

22 Benzo(a)pyrene



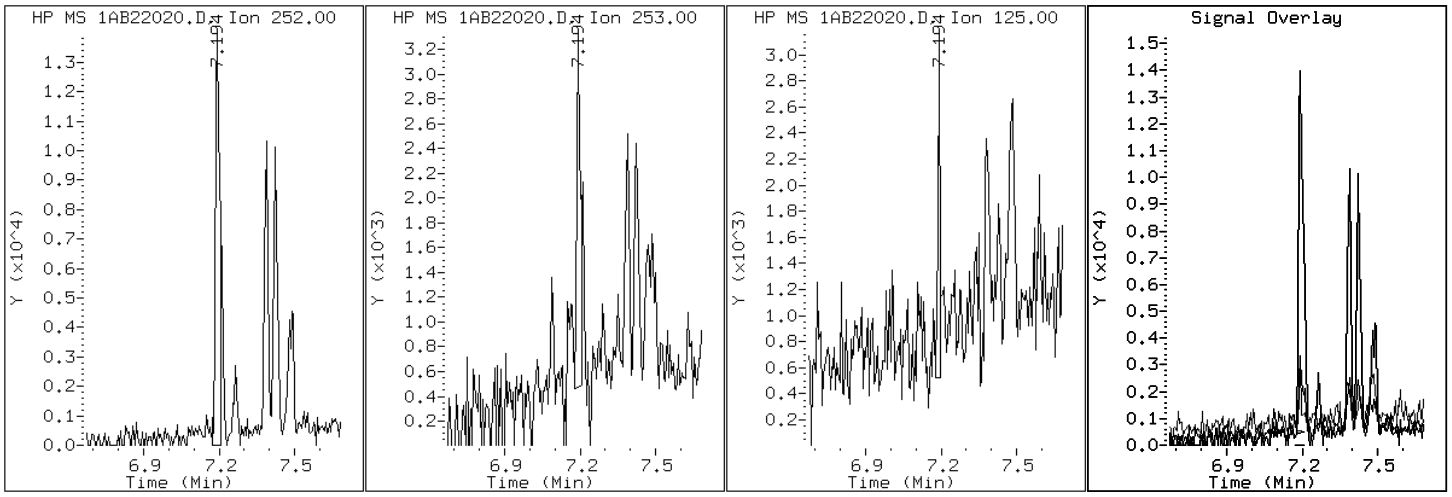
Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

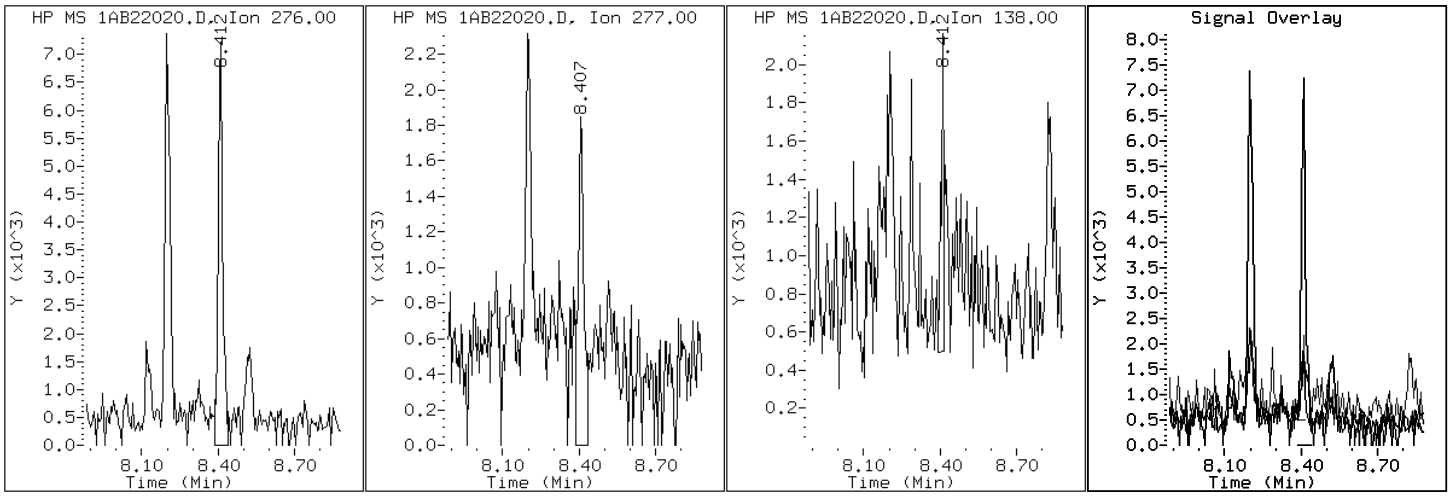
Client ID: FM0160J-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a

Operator: SCC

26 Benzo(g,h,i)perylene



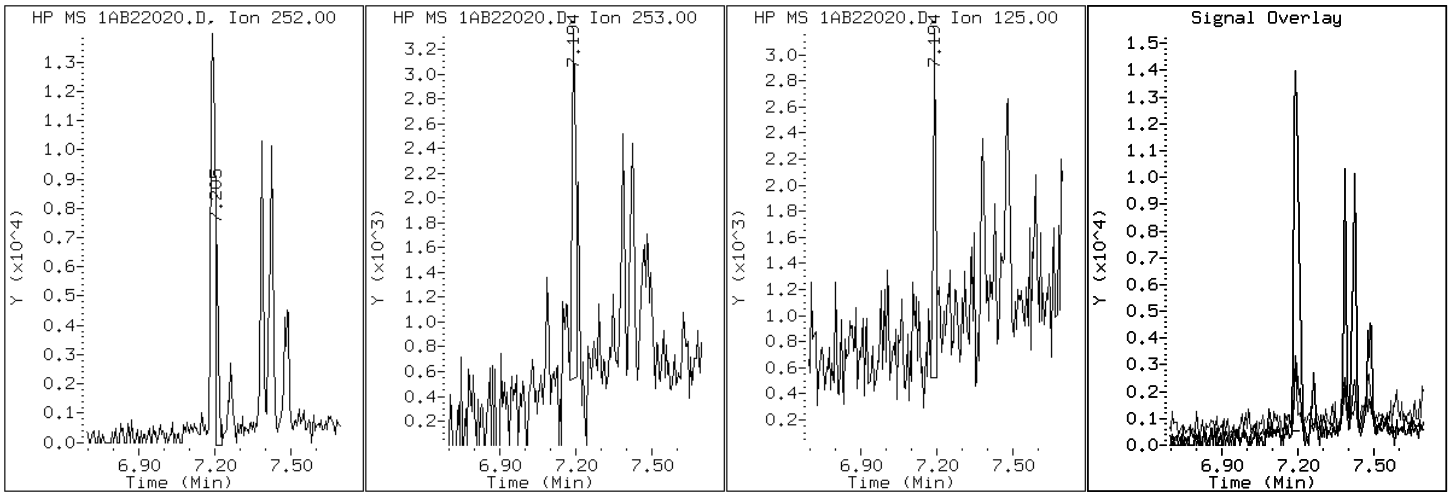
Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

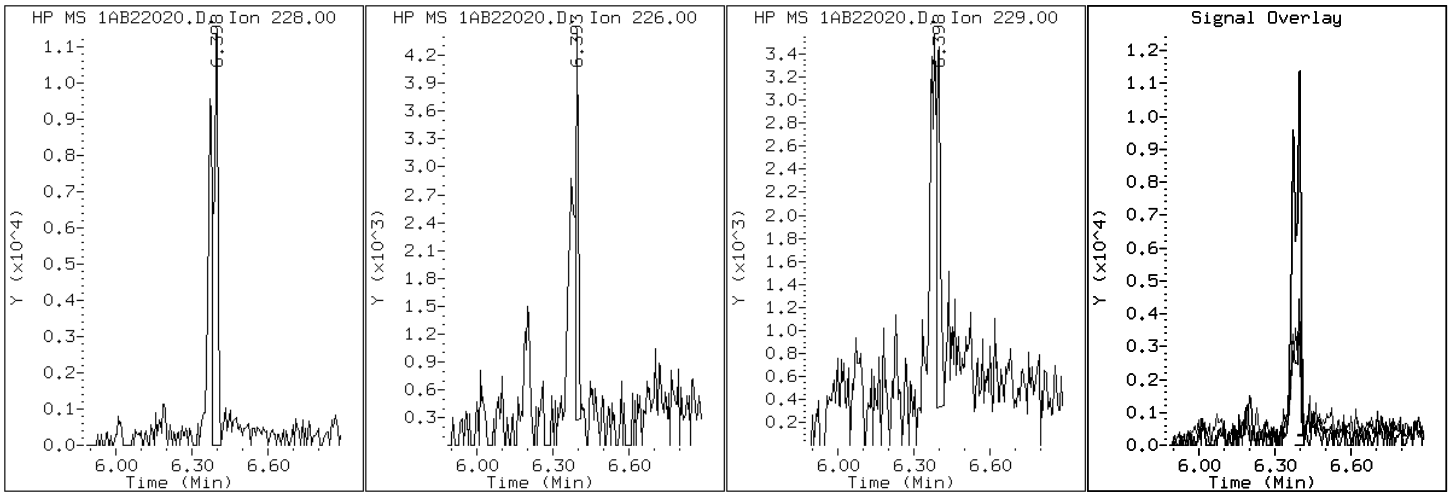
Client ID: FM0160J-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a

Operator: SCC

19 Chrysene



Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

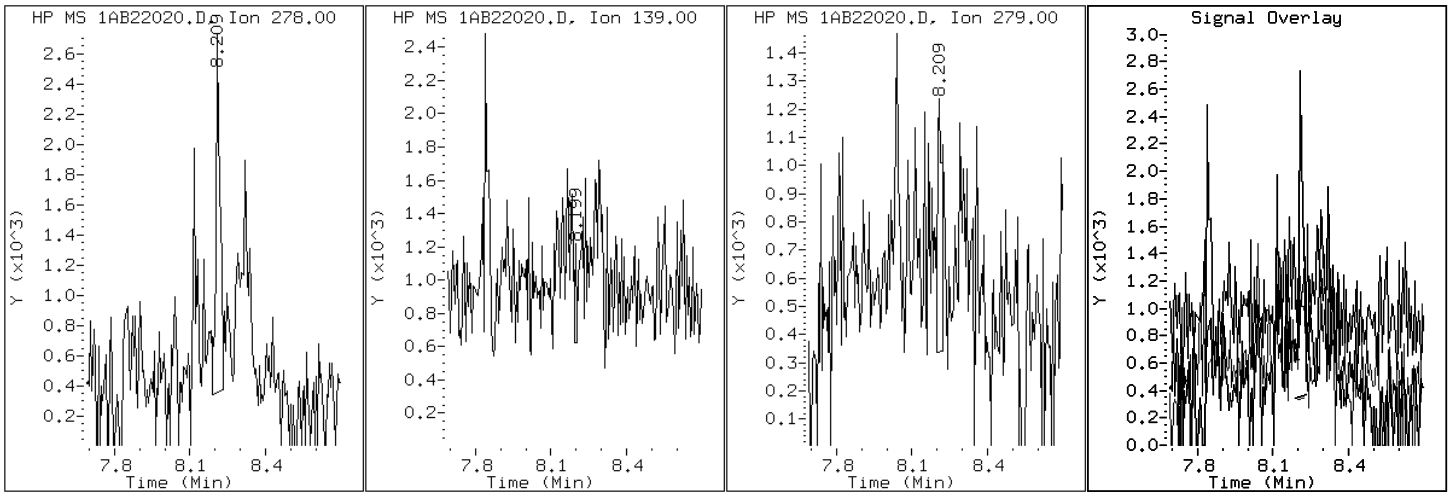
Client ID: FM0160J-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a

Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

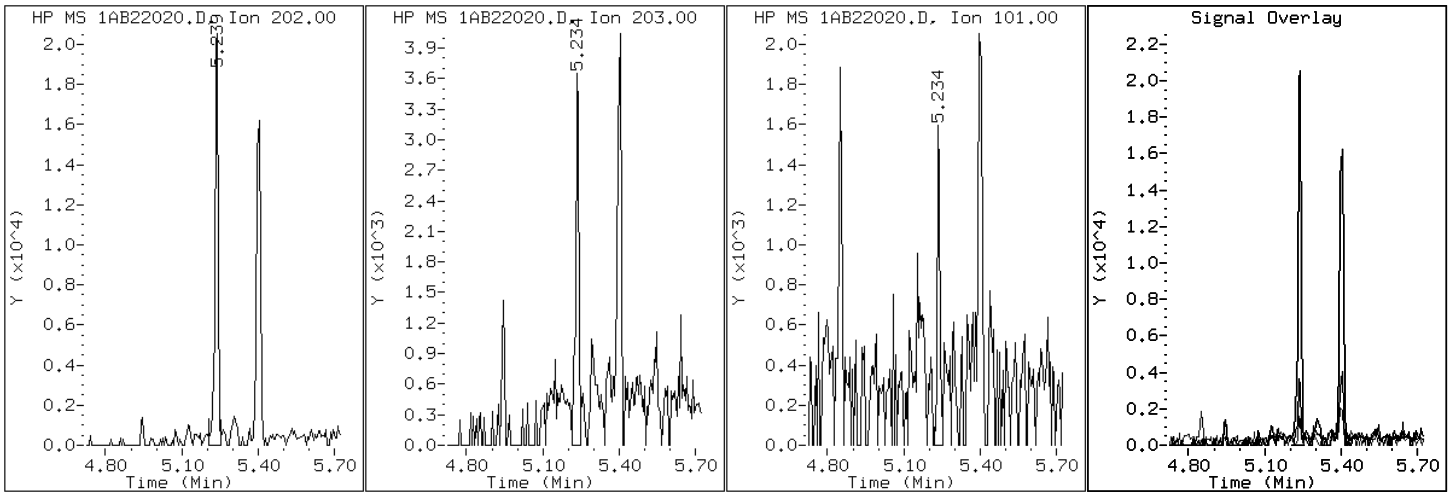
Client ID: FM0160J-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a

Operator: SCC

15 Fluoranthene



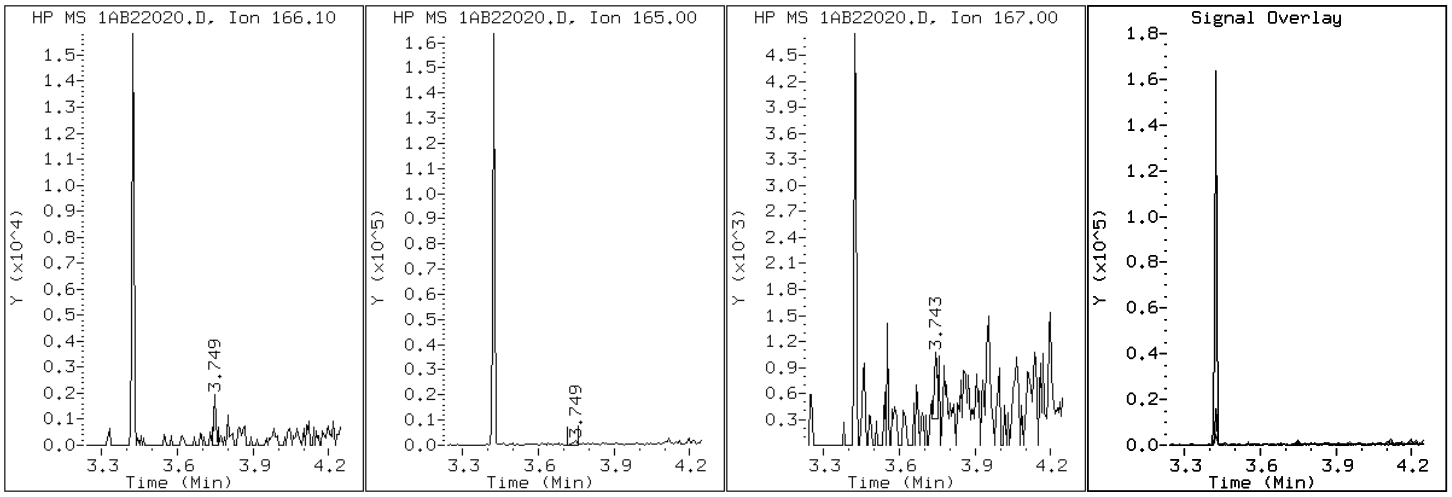
Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a Operator: SCC

9 Fluorene



Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

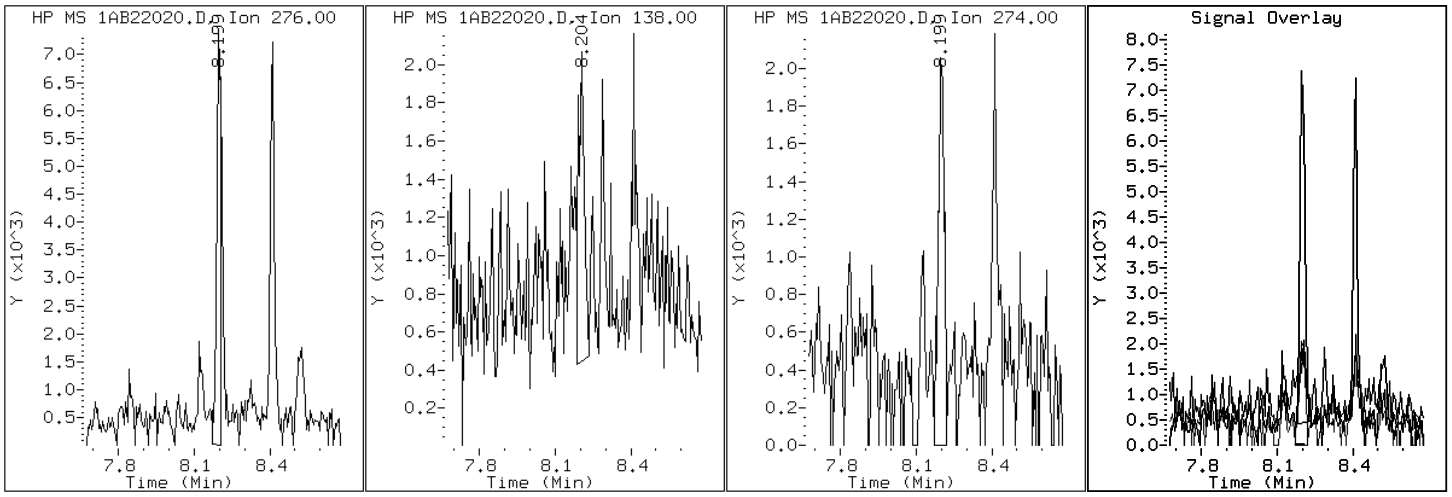
Client ID: FM0160J-CS

Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a

Operator: SCC

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



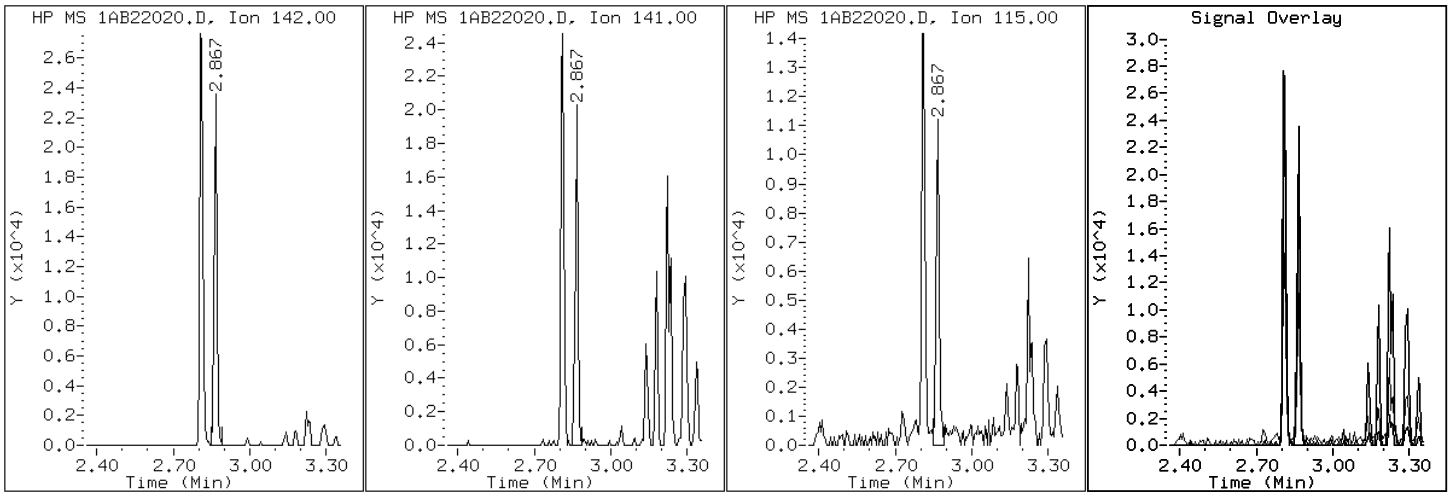
Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a Operator: SCC

4 1-Methylnaphthalene



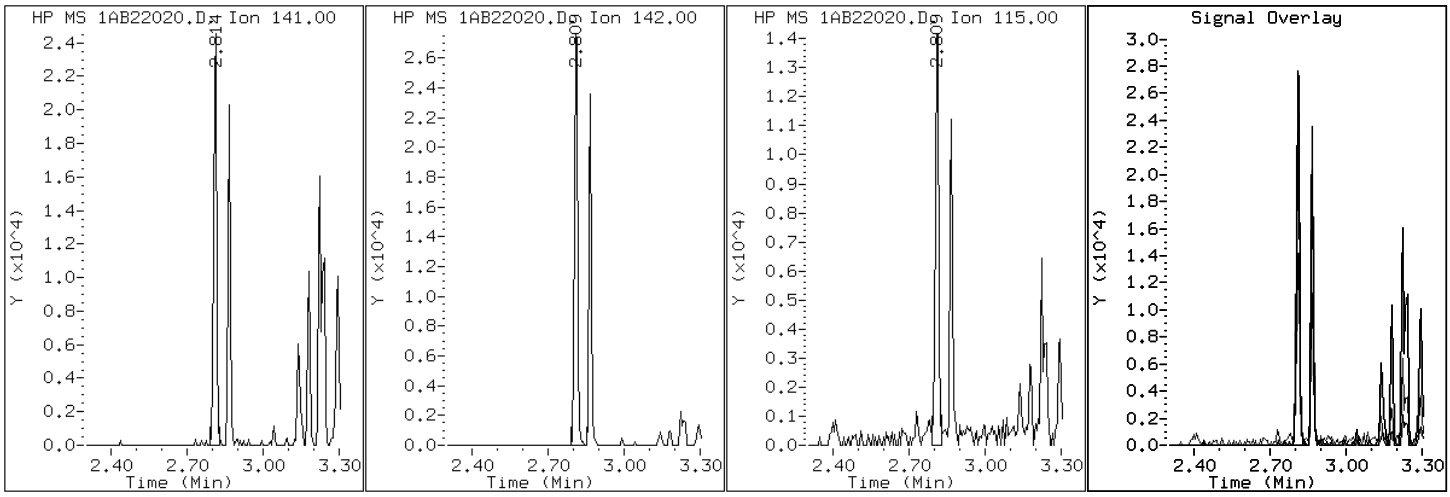
Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a Operator: SCC

3 2-Methylnaphthalene



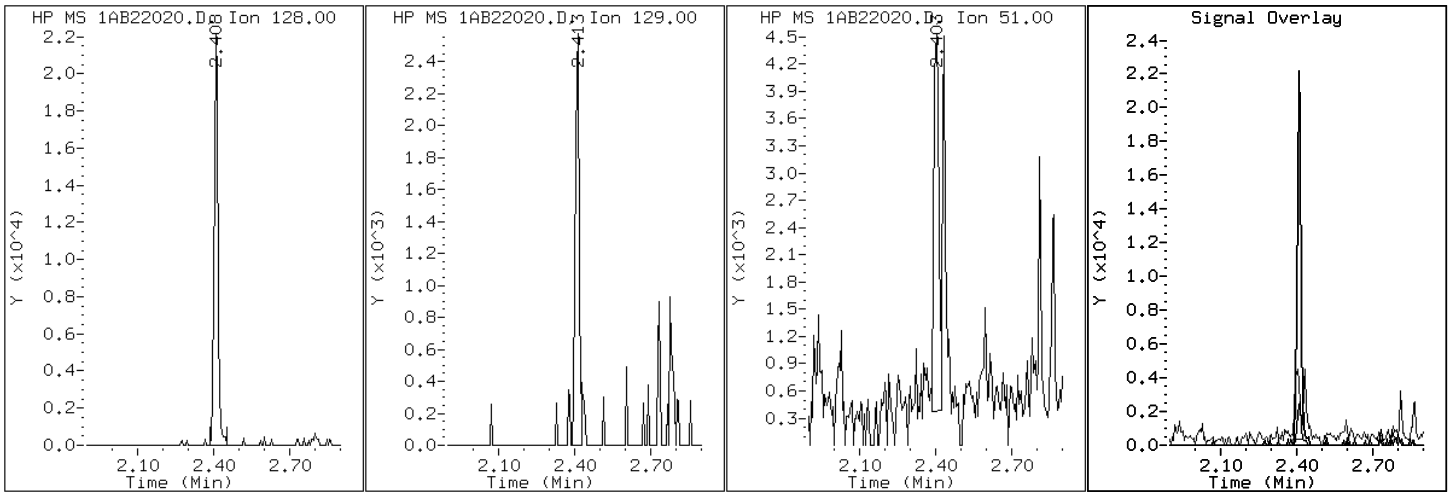
Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a Operator: SCC

2 Naphthalene



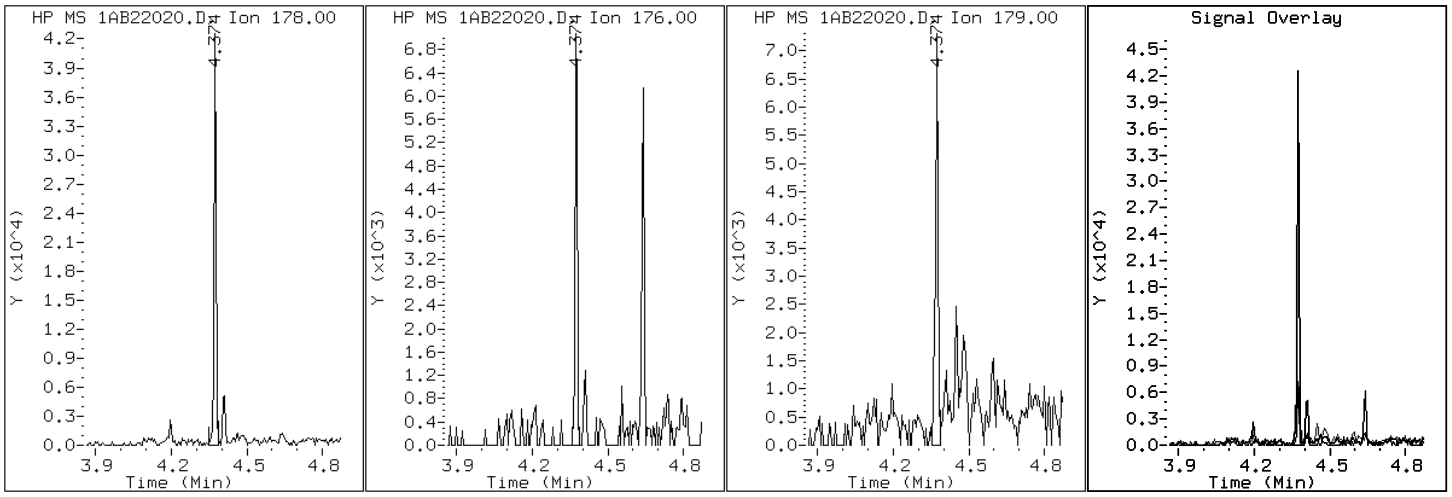
Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a Operator: SCC

11 Phenanthrene



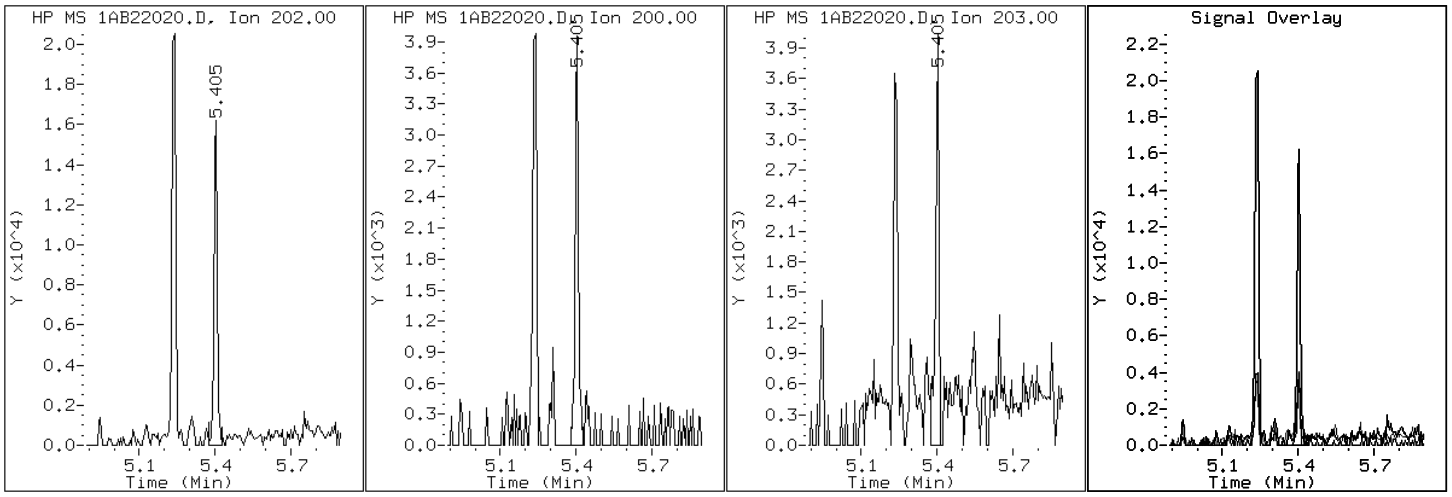
Data File: 1AB22020.D

Date: 22-FEB-2013 15:24

Client ID: FM0160J-CS Instrument: BSMA5973.i

Sample Info: 680-87496-a-60-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1AB22020.D
Inj. Date and Time: 22-FEB-2013 15:24
Instrument ID: BSMA5973.i
Client ID: FM0160J-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/25/2013

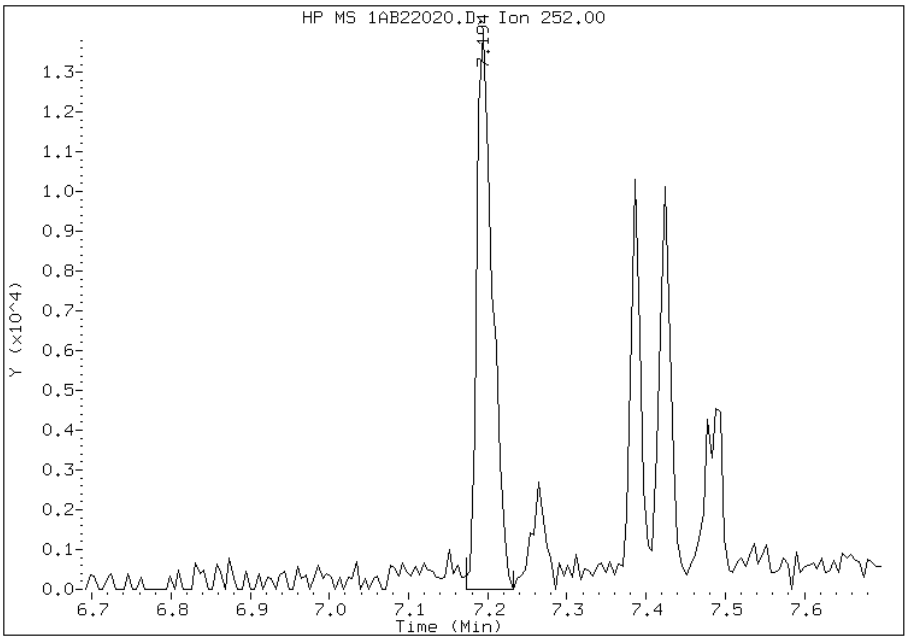
Processing Integration Results

RT: 7.19

Response: 19253

Amount: 1

Conc: 64



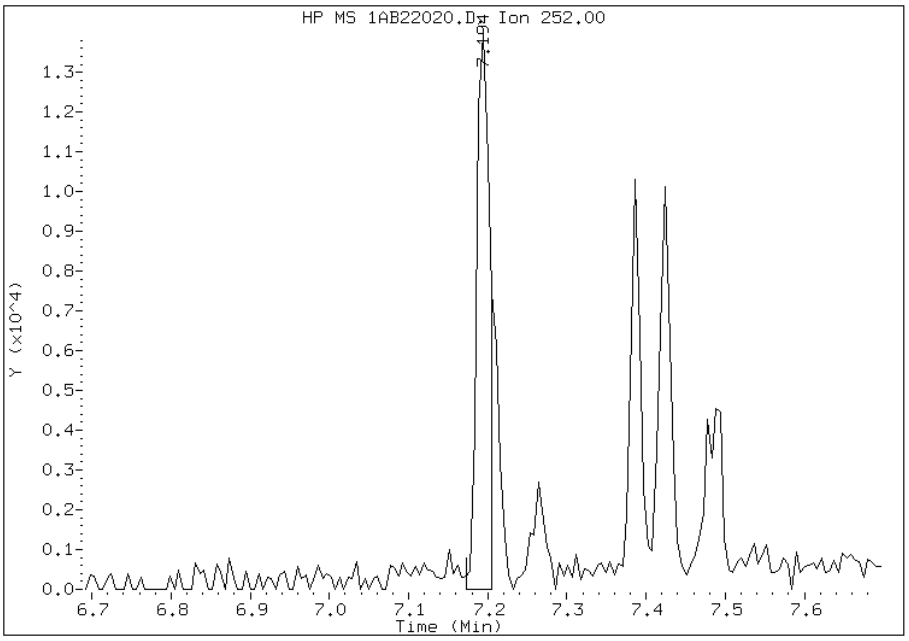
Manual Integration Results

RT: 7.19

Response: 15724

Amount: 1

Conc: 52



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1AB22020.D
Inj. Date and Time: 22-FEB-2013 15:24
Instrument ID: BSMA5973.i
Client ID: FM0160J-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/25/2013

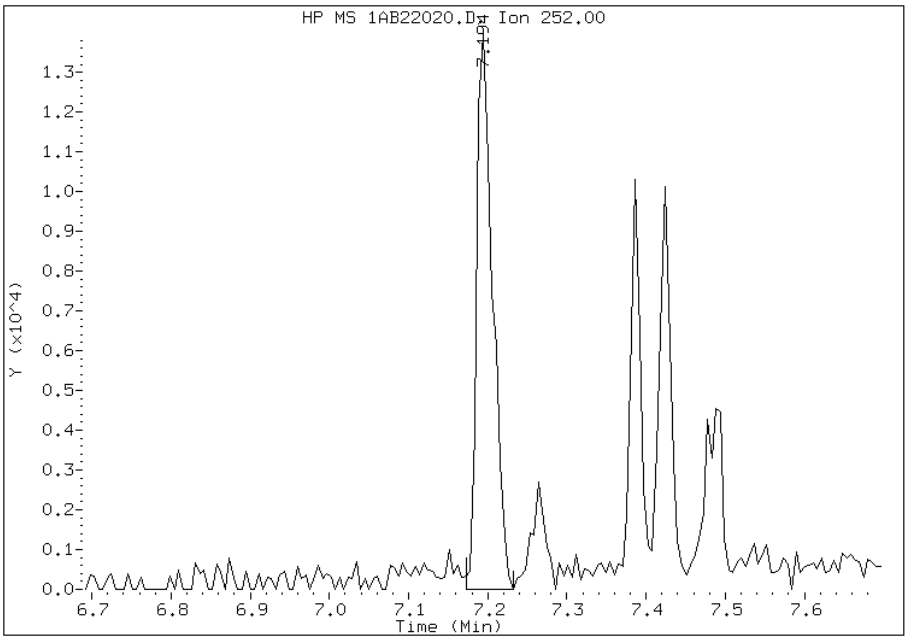
Processing Integration Results

RT: 7.19

Response: 19253

Amount: 1

Conc: 64



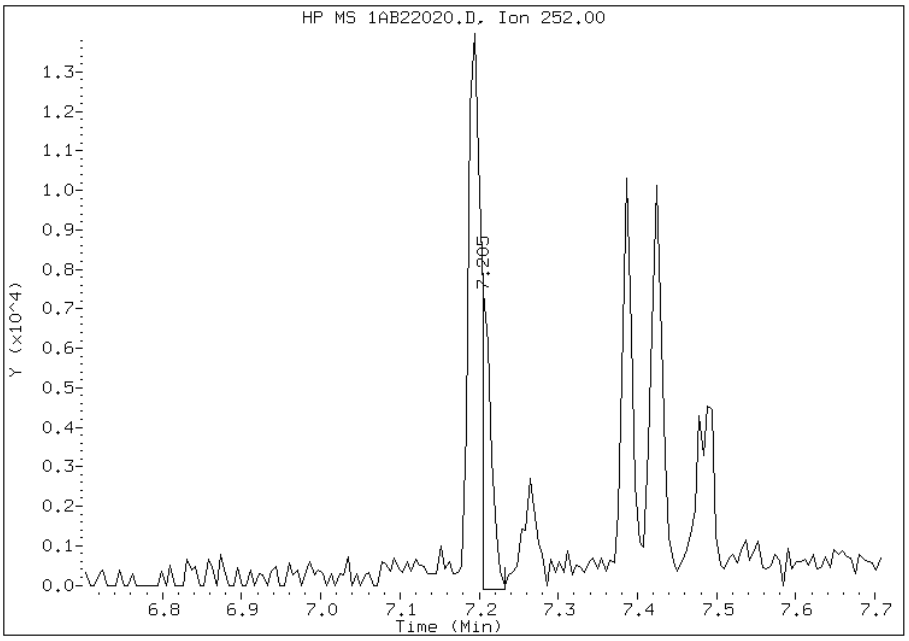
Manual Integration Results

RT: 7.21

Response: 6123

Amount: 0

Conc: 20



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22020.D
Inj. Date and Time: 22-FEB-2013 15:24
Instrument ID: BSMA5973.i
Client ID: FM0160J-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

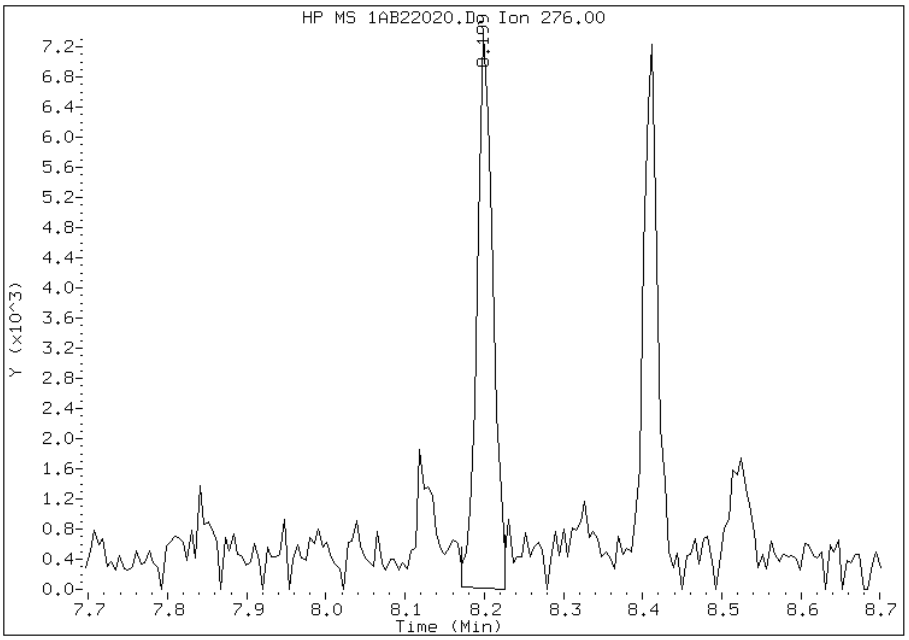
Processing Integration Results

RT: 8.20

Response: 10194

Amount: 1

Conc: 43



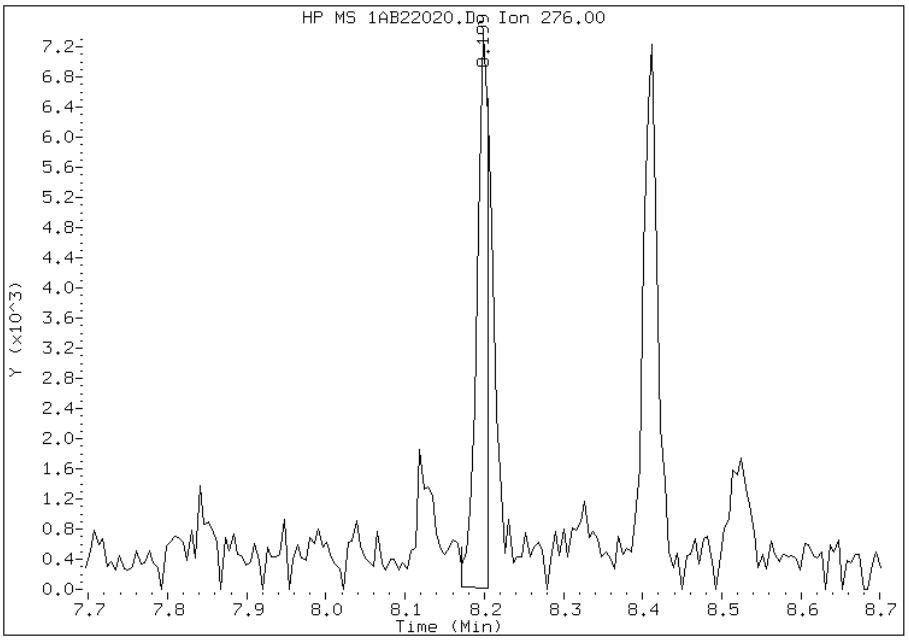
Manual Integration Results

RT: 8.20

Response: 7251

Amount: 0

Conc: 31



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 11:39
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-3 Analy Batch No.: 134771

SDG No.: 68087496-3

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

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134771/3	1AB22003.D
Level 2	IC 660-134771/4	1AB22004.D
Level 3	IC 660-134771/5	1AB22005.D
Level 4	IC 660-134771/6	1AB22006.D
Level 5	ICIS 660-134771/7	1AB22007.D
Level 6	IC 660-134771/8	1AB22008.D
Level 7	IC 660-134771/9	1AB22009.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	0.8964 1.0153	0.9159 1.0399	0.9668	0.9629	0.9496	Ave		0.9639			0.0000	5.3		15.0			
2-Methylnaphthalene	0.5063 0.5277	0.4390 0.5498	0.4723	0.4869	0.5011	Ave		0.4976			0.0000	7.3		15.0			
1-Methylnaphthalene	0.5486 0.5967	0.4750 0.6283	0.5452	0.5377	0.5470	Ave		0.5541			0.0000	8.7		15.0			
Acenaphthylene	1.1966 1.6216	1.3446 1.8173	1.4050	1.4842	1.5855	Ave		1.4935			0.0000	13.6		15.0			
Acenaphthene	0.8808 0.9421	0.7126 1.0791	0.7647	0.8116	0.8502	Ave		0.8630			0.0000	14.1		15.0			
Fluorene	1.1431 1.1704	0.9064 1.3325	0.9874	1.0111	1.0737	Ave		1.0892			0.0000	12.9		15.0			
Phenanthrene	0.9312 1.0691	0.9111 1.1691	0.9176	0.9689	0.9927	Ave		0.9943			0.0000	9.5		15.0			
Anthracene	0.7803 1.0576	0.9213 1.1455	0.8949	0.9850	0.9759	Ave		0.9658			0.0000	12.1		15.0			
Carbazole	0.8186 0.9329	0.8109 0.9551	0.7765	0.8355	0.8385	Ave		0.8526			0.0000	7.7		15.0			
Fluoranthene	0.8986 1.1004	0.8625 1.1530	0.9211	1.0002	1.0230	Ave		0.9941			0.0000	10.8		15.0			
Pyrene	1.0843 1.2795	0.9905 1.3394	1.0929	1.1780	1.2482	Ave		1.1733			0.0000	10.6		15.0			
Benzo[a]anthracene	1.7411 1.1723	1.2086 1.2117	1.1255	1.1892	1.1354	LinF		1.1944			0.0000				0.9990		0.9900
Chrysene	1.1973 1.0763	0.9703 1.0809	1.0168	1.0640	1.0717	Ave		1.0682			0.0000	6.5		15.0			
Benzo[b]fluoranthene	0.9061 1.0772	0.9726 1.1120	0.9385	1.0042	1.0873	Ave		1.0140			0.0000	7.9		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.: 680-87496-3 Analy Batch No.: 134771

SDG No.: 68087496-3

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

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

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	0.9231 1.0263	0.9685 1.1087	1.0370	1.0317	1.0456	Ave		1.0201			0.0000	5.8		15.0			
Benzo[a]pyrene	0.8117 0.9918	0.8272 1.0398	0.9008	0.9421	0.9868	Ave		0.9286			0.0000	9.3		15.0			
Indeno[1,2,3-cd]pyrene	0.7333 0.8566	0.6724 0.8736	0.7089	0.8640	0.8679	Ave		0.7967			0.0000	11.0		15.0			
Dibenz(a,h)anthracene	0.7469 0.8730	0.7508 0.9377	0.7976	0.8318	0.8737	Ave		0.8302			0.0000	8.5		15.0			
Benzo[g,h,i]perylene	0.7605 0.8858	0.7997 0.9208	0.8165	0.8606	0.8875	Ave		0.8473			0.0000	6.7		15.0			
o-Terphenyl	0.6186 0.6322	0.5097 0.6801	0.5130	0.5639	0.5567	Ave		0.5820			0.0000	11.0		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.: 680-87496-3 Analy Batch No.: 134771

SDG No.: 68087496-3

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

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-134771/3	1AB22003.D
Level 2	IC 660-134771/4	1AB22004.D
Level 3	IC 660-134771/5	1AB22005.D
Level 4	IC 660-134771/6	1AB22006.D
Level 5	ICIS 660-134771/7	1AB22007.D
Level 6	IC 660-134771/8	1AB22008.D
Level 7	IC 660-134771/9	1AB22009.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	4492 755068	23071 1297783	116527	240277	470879	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	2537 392415	11057 686127	56925	121491	248487	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	2749 443774	11965 784083	65710	134180	271250	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	4028 777111	22465 1395142	113930	243677	493767	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	2965 451477	11906 828395	62010	133244	264764	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	3848 560865	15143 1022945	80068	165999	334396	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	4653 768793	22599 1384065	115139	234292	480919	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	3899 760474	22852 1356027	112287	238178	472782	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	4090 670812	20113 1130623	97425	202035	406225	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	4490 791244	21394 1364989	115579	241853	495614	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	4786 842188	22037 1493658	120317	254540	525727	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	LinF	7685 771629	26890 1351230	123907	256962	478213	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	5285 708418	21588 1205320	111943	229916	451380	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	4262 734907	23073 1222288	108525	230016	467596	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	4342 700196	22977 1218648	119915	236303	449664	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.: 680-87496-3 Analy Batch No.: 134771

SDG No.: 68087496-3

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

Calibration Start Date: 02/22/2013 11:01 Calibration End Date: 02/22/2013 12:32 Calibration ID: 2759

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	3818 676641	19624 1142888	104167	215789	424369	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	3449 584416	15951 960232	81971	197900	373229	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	3513 595548	17811 1030642	92232	190519	375714	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	3577 604332	18973 1012084	94413	197121	381649	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	3091 454607	12643 805122	64371	136353	269717	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\1A022213.b\1AB22003.D
Lab Smp Id: IC-1512358
Inj Date : 22-FEB-2013 11:01
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512358
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.389	2.396	(1.000)	1002176	40.0000	
* 6 Acenaphthene-d10	164	3.415	3.416	(1.000)	673260	40.0000	
* 10 Phenanthrene-d10	188	4.355	4.351	(1.000)	999327	40.0000	
$ 14 o-Terphenyl	230	4.628	4.634	(1.063)	3091	0.20000	0.2125
* 18 Chrysene-d12	240	6.364	6.365	(1.000)	882800	40.0000	
* 23 Perylene-d12	264	7.459	7.455	(1.000)	940724	40.0000	
2 Naphthalene	128	2.405	2.401	(1.007)	4492	0.20000	0.1860(Q)
3 2-Methylnaphthalene	141	2.806	2.807	(1.174)	2537	0.20000	0.2035
4 1-Methylnaphthalene	142	2.859	2.861	(1.197)	2749	0.20000	0.1980
5 Acenaphthylene	152	3.330	3.331	(0.975)	4028	0.20000	0.1602
7 Acenaphthene	154	3.431	3.433	(1.005)	2965	0.20000	0.2041
9 Fluorene	166	3.741	3.742	(1.095)	3848	0.20000	0.2098
11 Phenanthrene	178	4.366	4.367	(1.002)	4653	0.20000	0.1873
12 Anthracene	178	4.398	4.399	(1.010)	3899	0.20000	0.1615
13 Carbazole	167	4.553	4.554	(1.045)	4090	0.20000	0.1920
15 Fluoranthene	202	5.226	5.227	(1.200)	4490	0.20000	0.1807
16 Pyrene	202	5.392	5.393	(0.847)	4786	0.20000	0.1848
17 Benzo(a)anthracene	228	6.359	6.355	(0.999)	7685	0.20000	0.2915
19 Chrysene	228	6.375	6.387	(1.002)	5285	0.20000	0.2241
20 Benzo(b)fluoranthene	252	7.171	7.177	(0.961)	4262	0.20000	0.1787
21 Benzo(k)fluoranthene	252	7.192	7.199	(0.964)	4342	0.20000	0.1809
22 Benzo(a)pyrene	252	7.400	7.407	(0.992)	3818	0.20000	0.1748
24 Indeno(1,2,3-cd)pyrene	276	8.175	8.176	(1.096)	3449	0.20000	0.1840(M)
25 Dibenzo(a,h)anthracene	278	8.191	8.192	(1.098)	3513	0.20000	0.1799
26 Benzo(g,h,i)perylene	276	8.378	8.385	(1.123)	3577	0.20000	0.1794

QC Flag Legend

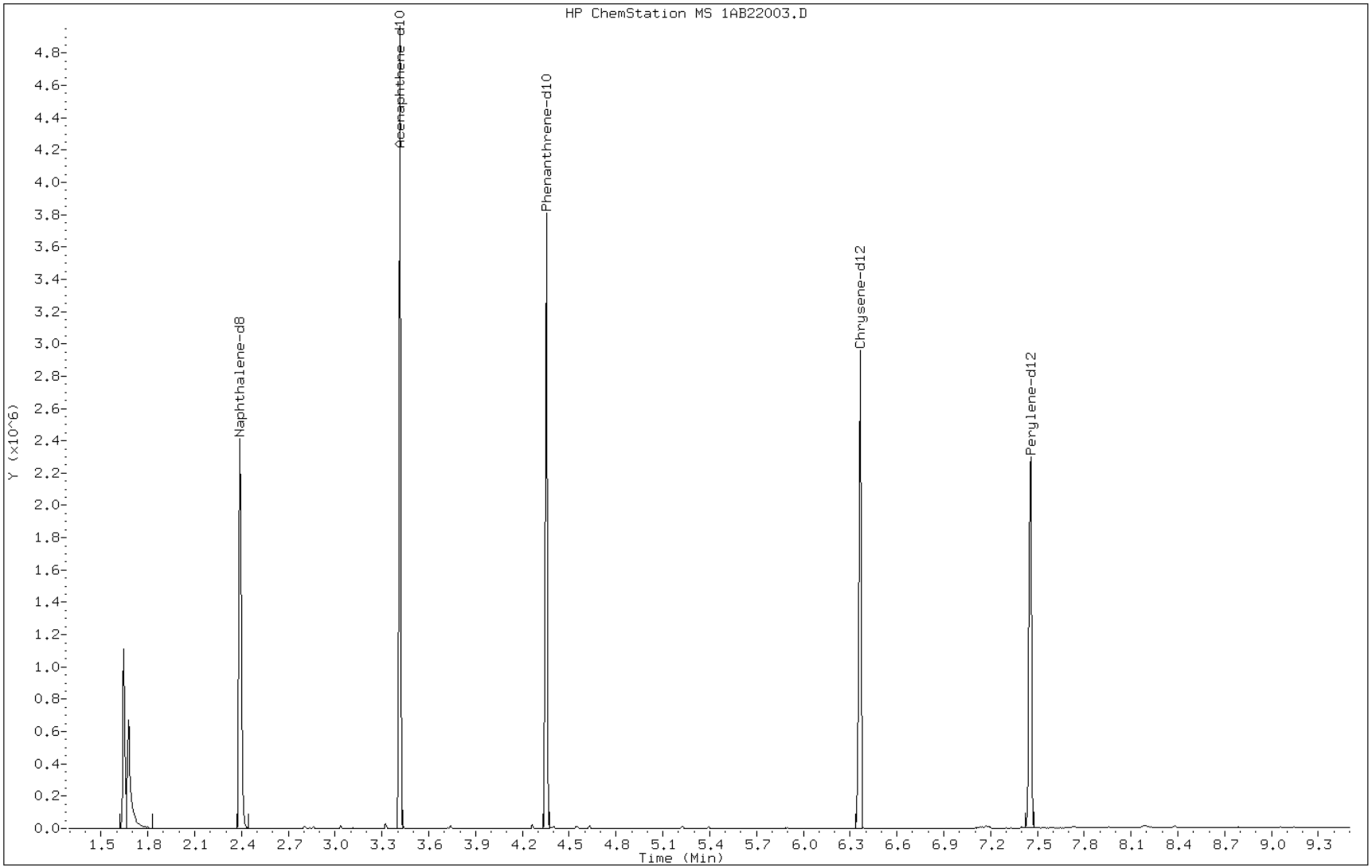
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB22003.D

Date: 22-FEB-2013 11:01

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512358 Operator: SCC



Manual Integration Report

Data File: 1AB22003.D
Inj. Date and Time: 22-FEB-2013 11:01
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

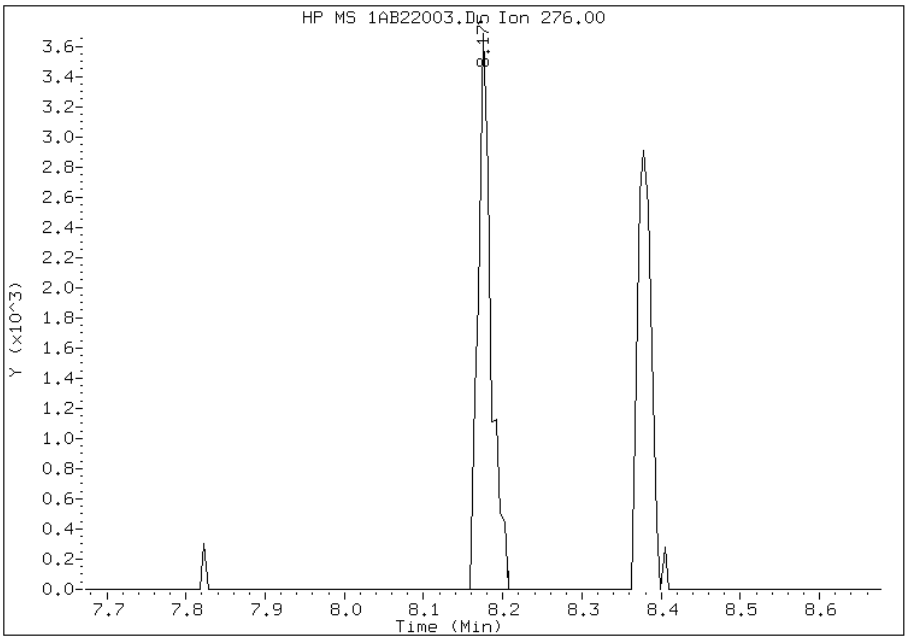
Processing Integration Results

RT: 8.18

Response: 4114

Amount: 0

Conc: 0



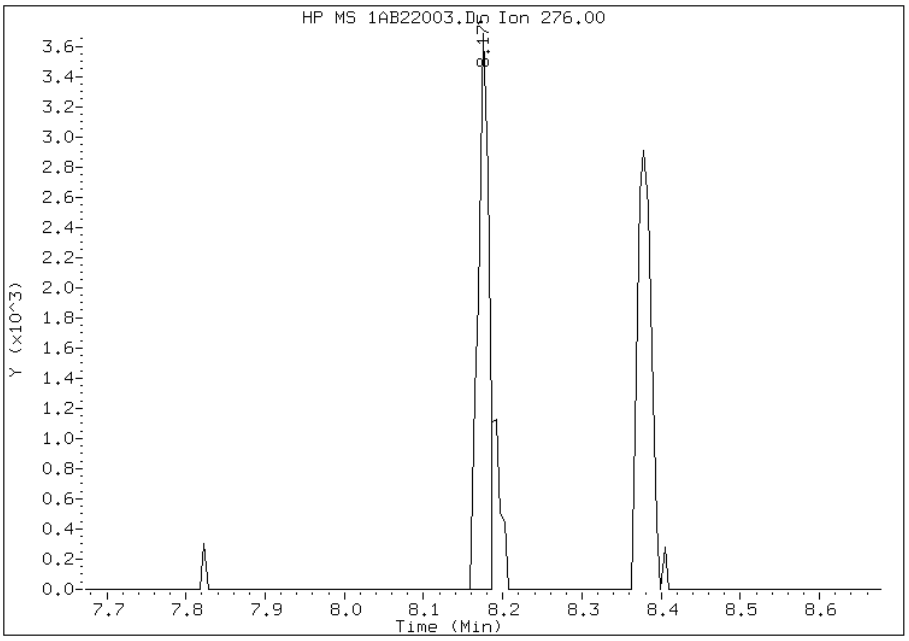
Manual Integration Results

RT: 8.18

Response: 3449

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:53
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22004.D
Lab Smp Id: IC-1512359
Inj Date : 22-FEB-2013 11:16
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512359
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:01 Cal File: 1AB22003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.389	2.396	(1.000)	1007546	40.0000	
* 6 Acenaphthene-d10	164	3.414	3.416	(1.000)	668302	40.0000	
* 10 Phenanthrene-d10	188	4.354	4.351	(1.000)	992180	40.0000	
$ 14 o-Terphenyl	230	4.627	4.634	(1.063)	12643	1.00000	0.8757
* 18 Chrysene-d12	240	6.363	6.365	(1.000)	889971	40.0000	
* 23 Perylene-d12	264	7.453	7.455	(1.000)	948962	40.0000	
2 Naphthalene	128	2.399	2.401	(1.004)	23071	1.00000	0.9502(Q)
3 2-Methylnaphthalene	141	2.805	2.807	(1.174)	11057	1.00000	0.8822
4 1-Methylnaphthalene	142	2.859	2.861	(1.197)	11965	1.00000	0.8573
5 Acenaphthylene	152	3.329	3.331	(0.975)	22465	1.00000	0.9002
7 Acenaphthene	154	3.430	3.433	(1.005)	11906	1.00000	0.8257
9 Fluorene	166	3.740	3.742	(1.095)	15143	1.00000	0.8321
11 Phenanthrene	178	4.365	4.367	(1.002)	22599	1.00000	0.9163
12 Anthracene	178	4.397	4.399	(1.010)	22852	1.00000	0.9539
13 Carbazole	167	4.552	4.554	(1.045)	20113	1.00000	0.9511
15 Fluoranthene	202	5.225	5.227	(1.200)	21394	1.00000	0.8676
16 Pyrene	202	5.386	5.393	(0.846)	22037	1.00000	0.8441
17 Benzo(a)anthracene	228	6.347	6.355	(0.997)	26890	1.00000	1.0118
19 Chrysene	228	6.379	6.387	(1.003)	21588	1.00000	0.9083
20 Benzo(b)fluoranthene	252	7.170	7.177	(0.962)	23073	1.00000	0.9591
21 Benzo(k)fluoranthene	252	7.191	7.199	(0.965)	22977	1.00000	0.9493
22 Benzo(a)pyrene	252	7.399	7.407	(0.993)	19624	1.00000	0.8907
24 Indeno(1,2,3-cd)pyrene	276	8.169	8.176	(1.096)	15951	1.00000	0.8439(M)
25 Dibenzo(a,h)anthracene	278	8.179	8.192	(1.097)	17811	1.00000	0.9043
26 Benzo(g,h,i)perylene	276	8.372	8.385	(1.123)	18973	1.00000	0.9438

QC Flag Legend

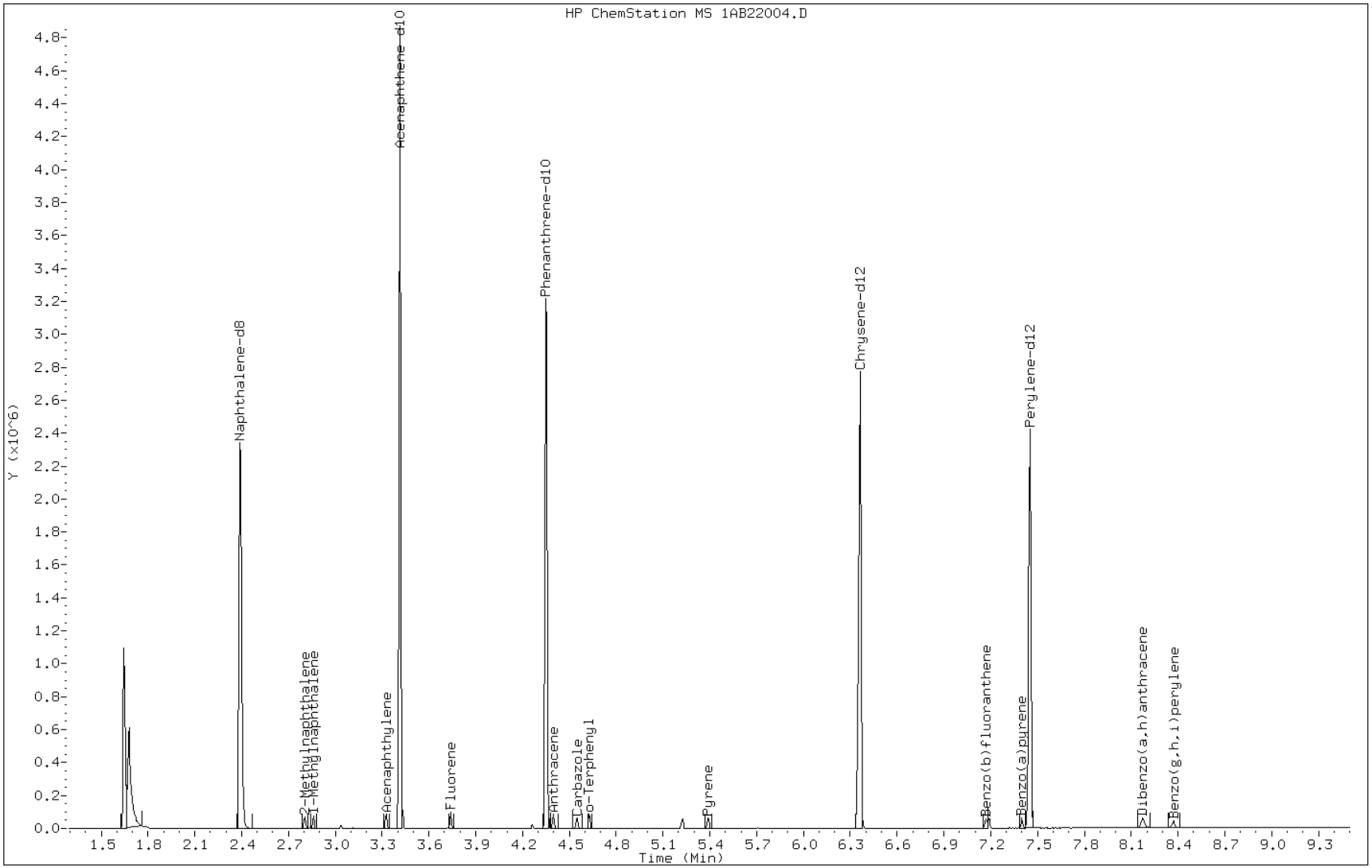
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1AB22004.D

Date: 22-FEB-2013 11:16

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512359 Operator: SCC



Manual Integration Report

Data File: 1AB22004.D
Inj. Date and Time: 22-FEB-2013 11:16
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

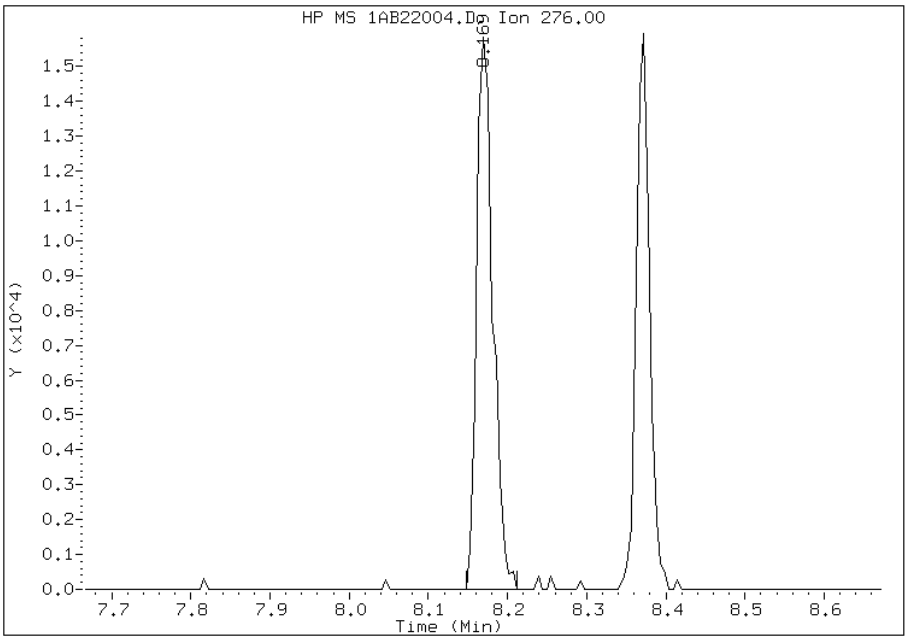
Processing Integration Results

RT: 8.17

Response: 22224

Amount: 1

Conc: 1



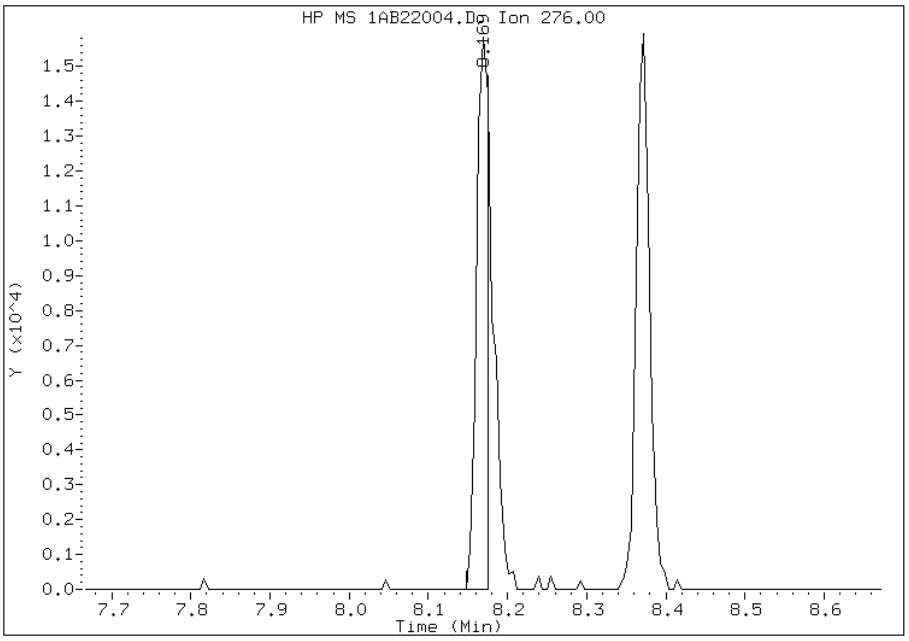
Manual Integration Results

RT: 8.17

Response: 15951

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:54
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22005.D
Lab Smp Id: IC-1512360
Inj Date : 22-FEB-2013 11:31
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512360
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:16 Cal File: 1AB22004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.394	2.396	(1.000)	964215	40.0000	
* 6 Acenaphthene-d10	164	3.414	3.416	(1.000)	648695	40.0000	
* 10 Phenanthrene-d10	188	4.349	4.351	(1.000)	1003789	40.0000	
$ 14 o-Terphenyl	230	4.627	4.634	(1.064)	64371	5.00000	4.4071
* 18 Chrysene-d12	240	6.363	6.365	(1.000)	880707	40.0000	
* 23 Perylene-d12	264	7.453	7.455	(1.000)	925085	40.0000	
2 Naphthalene	128	2.404	2.401	(1.004)	116527	5.00000	5.0153
3 2-Methylnaphthalene	141	2.805	2.807	(1.172)	56925	5.00000	4.7460
4 1-Methylnaphthalene	142	2.858	2.861	(1.194)	65710	5.00000	4.9197
5 Acenaphthylene	152	3.329	3.331	(0.975)	113930	5.00000	4.7037
7 Acenaphthene	154	3.430	3.433	(1.005)	62010	5.00000	4.4306
9 Fluorene	166	3.740	3.742	(1.095)	80068	5.00000	4.5327
11 Phenanthrene	178	4.365	4.367	(1.004)	115139	5.00000	4.6146
12 Anthracene	178	4.397	4.399	(1.011)	112287	5.00000	4.6330
13 Carbazole	167	4.547	4.554	(1.045)	97425	5.00000	4.5537
15 Fluoranthene	202	5.220	5.227	(1.200)	115579	5.00000	4.6329
16 Pyrene	202	5.391	5.393	(0.847)	120317	5.00000	4.6576
17 Benzo(a)anthracene	228	6.352	6.355	(0.998)	123907	5.00000	4.7117
19 Chrysene	228	6.379	6.387	(1.003)	111943	5.00000	4.7596
20 Benzo(b)fluoranthene	252	7.170	7.177	(0.962)	108525	5.00000	4.6277
21 Benzo(k)fluoranthene	252	7.191	7.199	(0.965)	119915	5.00000	5.0826
22 Benzo(a)pyrene	252	7.399	7.407	(0.993)	104167	5.00000	4.8503
24 Indeno(1,2,3-cd)pyrene	276	8.169	8.176	(1.096)	81971	5.00000	4.4490(M)
25 Dibenzo(a,h)anthracene	278	8.185	8.192	(1.098)	92232	5.00000	4.8037
26 Benzo(g,h,i)perylene	276	8.372	8.385	(1.123)	94413	5.00000	4.8178

QC Flag Legend

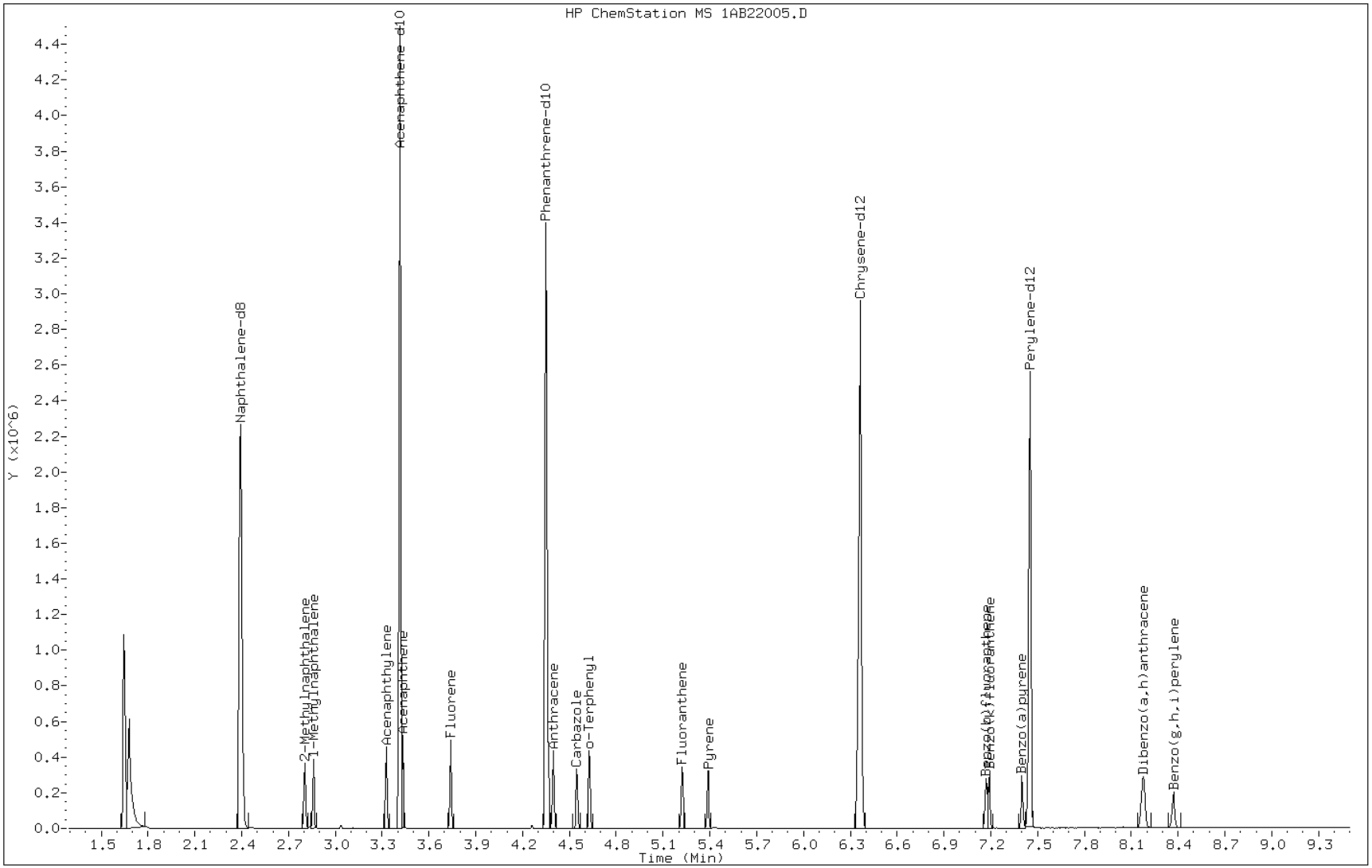
M - Compound response manually integrated.

Data File: 1AB22005.D

Date: 22-FEB-2013 11:31

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512360 Operator: SCC



Manual Integration Report

Data File: 1AB22005.D
Inj. Date and Time: 22-FEB-2013 11:31
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

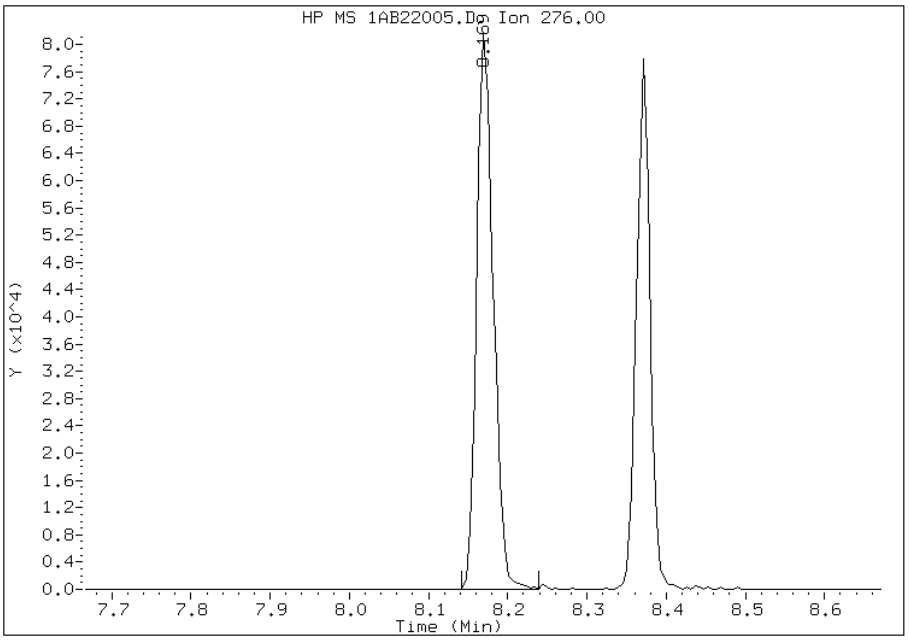
Processing Integration Results

RT: 8.17

Response: 116998

Amount: 6

Conc: 6



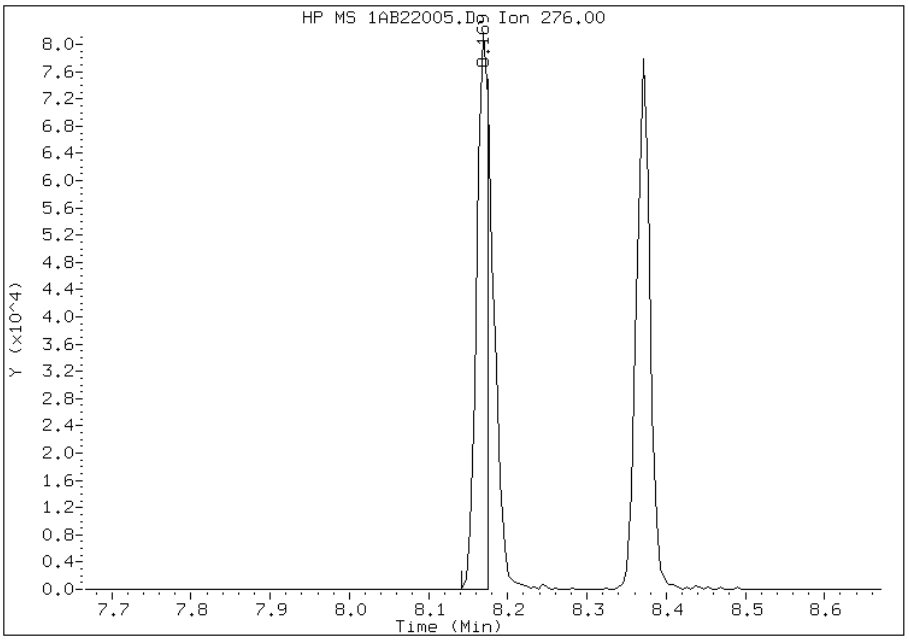
Manual Integration Results

RT: 8.17

Response: 81971

Amount: 4

Conc: 4



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:54
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22006.D
Lab Smp Id: IC-1512361
Inj Date : 22-FEB-2013 11:47
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512361
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:31 Cal File: 1AB22005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.391	2.396	(1.000)	998088	40.0000	
* 6 Acenaphthene-d10	164	3.417	3.416	(1.000)	656726	40.0000	
* 10 Phenanthrene-d10	188	4.352	4.351	(1.000)	967220	40.0000	
$ 14 o-Terphenyl	230	4.630	4.634	(1.064)	136353	10.0000	9.6882
* 18 Chrysene-d12	240	6.366	6.365	(1.000)	864311	40.0000	
* 23 Perylene-d12	264	7.456	7.455	(1.000)	916189	40.0000	
2 Naphthalene	128	2.402	2.401	(1.004)	240277	10.0000	9.9906
3 2-Methylnaphthalene	141	2.803	2.807	(1.172)	121491	10.0000	9.7853
4 1-Methylnaphthalene	142	2.861	2.861	(1.197)	134180	10.0000	9.7051
5 Acenaphthylene	152	3.331	3.331	(0.975)	243677	10.0000	9.9374
7 Acenaphthene	154	3.433	3.433	(1.005)	133244	10.0000	9.4039
9 Fluorene	166	3.743	3.742	(1.095)	165999	10.0000	9.2825
11 Phenanthrene	178	4.368	4.367	(1.004)	234292	10.0000	9.7451
12 Anthracene	178	4.400	4.399	(1.011)	238178	10.0000	10.1990
13 Carbazole	167	4.549	4.554	(1.045)	202035	10.0000	9.8003
15 Fluoranthene	202	5.222	5.227	(1.200)	241853	10.0000	10.0611
16 Pyrene	202	5.393	5.393	(0.847)	254540	10.0000	10.0404
17 Benzo(a)anthracene	228	6.355	6.355	(0.998)	256962	10.0000	9.9568
19 Chrysene	228	6.382	6.387	(1.003)	229916	10.0000	9.9611
20 Benzo(b)fluoranthene	252	7.172	7.177	(0.962)	230016	10.0000	9.9036
21 Benzo(k)fluoranthene	252	7.194	7.199	(0.965)	236303	10.0000	10.1130
22 Benzo(a)pyrene	252	7.402	7.407	(0.993)	215789	10.0000	10.1454
24 Indeno(1,2,3-cd)pyrene	276	8.171	8.176	(1.096)	197900	10.0000	10.8454(M)
25 Dibenzo(a,h)anthracene	278	8.187	8.192	(1.098)	190519	10.0000	10.0192
26 Benzo(g,h,i)perylene	276	8.374	8.385	(1.123)	197121	10.0000	10.1566

QC Flag Legend

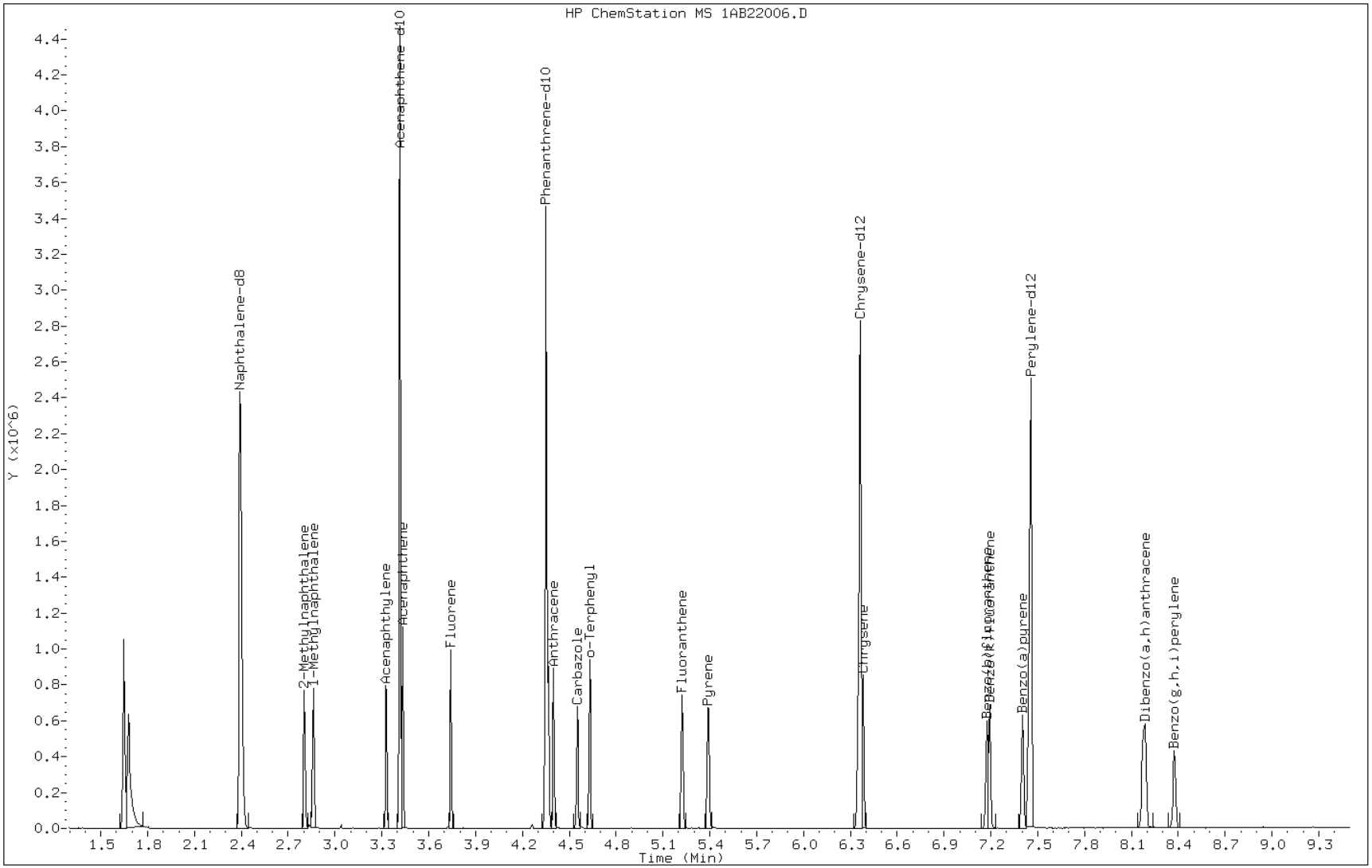
M - Compound response manually integrated.

Data File: 1AB22006.D

Date: 22-FEB-2013 11:47

Client ID: Instrument: BSMA5973.i

Sample Info: IC-1512361 Operator: SCC



Manual Integration Report

Data File: 1AB22006.D
Inj. Date and Time: 22-FEB-2013 11:47
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

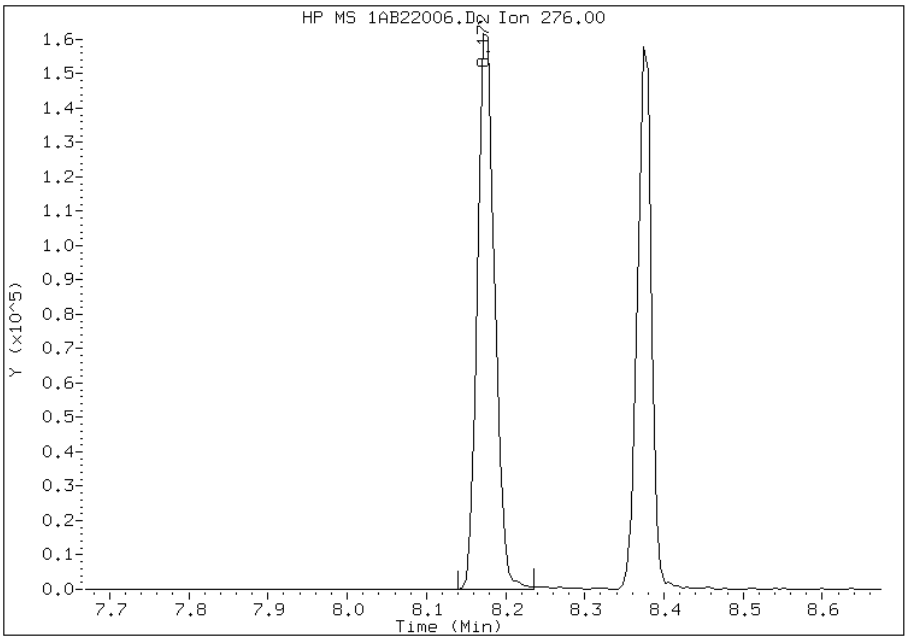
Processing Integration Results

RT: 8.17

Response: 242829

Amount: 11

Conc: 11



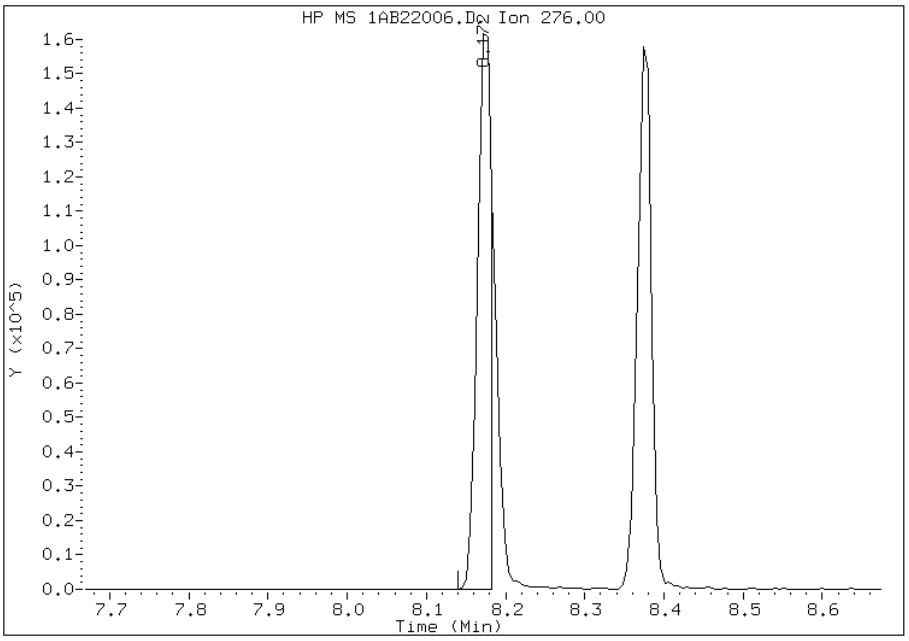
Manual Integration Results

RT: 8.17

Response: 197900

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:54
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22007.D
Lab Smp Id: ICIS-1512372
Inj Date : 22-FEB-2013 12:02
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 11:47 Cal File: 1AB22006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	2.396	2.396	(1.000)	991704	40.0000	
* 6 Acenaphthene-d10	164	3.416	3.416	(1.000)	622858	40.0000	
* 10 Phenanthrene-d10	188	4.351	4.351	(1.000)	968921	40.0000	
$ 14 o-Terphenyl	230	4.634	4.634	(1.065)	269717	20.0000	19.1304
* 18 Chrysene-d12	240	6.365	6.365	(1.000)	842371	40.0000	
* 23 Perylene-d12	264	7.455	7.455	(1.000)	860097	40.0000	
2 Naphthalene	128	2.401	2.401	(1.002)	470879	20.0000	19.7050
3 2-Methylnaphthalene	141	2.807	2.807	(1.172)	248487	20.0000	20.1429
4 1-Methylnaphthalene	142	2.861	2.861	(1.194)	271250	20.0000	19.7457
5 Acenaphthylene	152	3.331	3.331	(0.975)	493767	20.0000	21.2312
7 Acenaphthene	154	3.433	3.433	(1.005)	264764	20.0000	19.7023
9 Fluorene	166	3.742	3.742	(1.095)	334396	20.0000	19.7158
11 Phenanthrene	178	4.367	4.367	(1.004)	480919	20.0000	19.9683
12 Anthracene	178	4.399	4.399	(1.011)	472782	20.0000	20.2094
13 Carbazole	167	4.554	4.554	(1.047)	406225	20.0000	19.6706
15 Fluoranthene	202	5.227	5.227	(1.201)	495614	20.0000	20.5813
16 Pyrene	202	5.393	5.393	(0.847)	525727	20.0000	21.2776
17 Benzo(a)anthracene	228	6.355	6.355	(0.998)	478213	20.0000	19.0125
19 Chrysene	228	6.387	6.387	(1.003)	451380	20.0000	20.0655
20 Benzo(b)fluoranthene	252	7.177	7.177	(0.963)	467596	20.0000	21.4460
21 Benzo(k)fluoranthene	252	7.199	7.199	(0.966)	449664	20.0000	20.4993
22 Benzo(a)pyrene	252	7.407	7.407	(0.994)	424369	20.0000	21.2532
24 Indeno(1,2,3-cd)pyrene	276	8.176	8.176	(1.097)	373229	20.0000	21.7877(M)
25 Dibenzo(a,h)anthracene	278	8.192	8.192	(1.099)	375714	20.0000	21.0471
26 Benzo(g,h,i)perylene	276	8.385	8.385	(1.125)	381649	20.0000	20.9468

QC Flag Legend

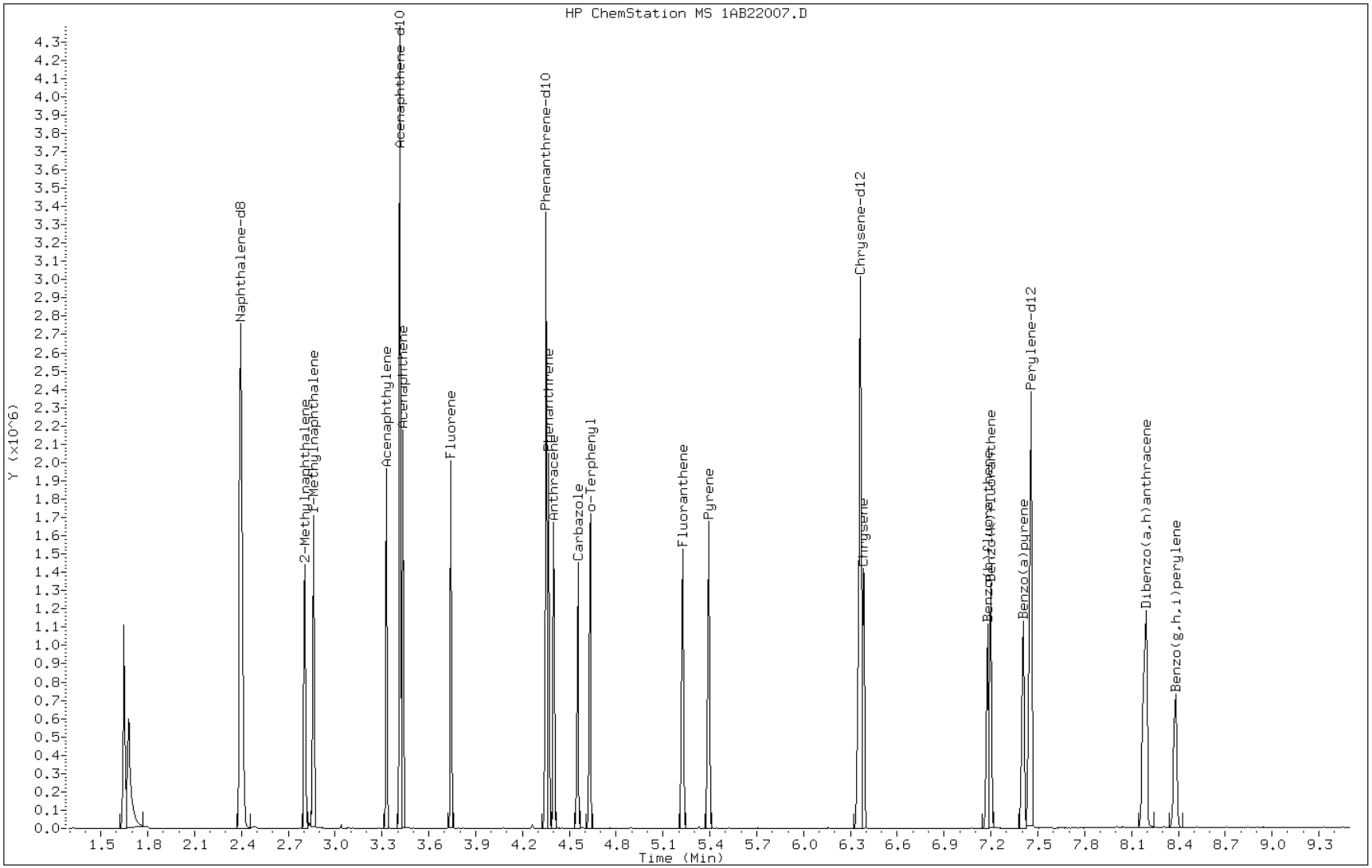
M - Compound response manually integrated.

Data File: 1AB22007.D

Date: 22-FEB-2013 12:02

Client ID: Instrument: BSMA5973.i

Sample Info: ICIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1AB22007.D
Inj. Date and Time: 22-FEB-2013 12:02
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

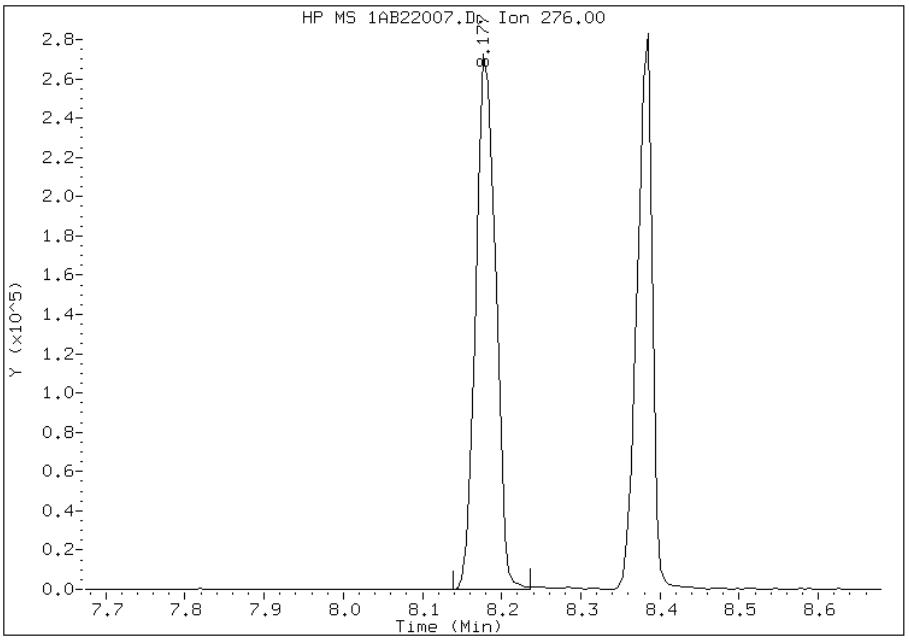
Processing Integration Results

RT: 8.18

Response: 469388

Amount: 25

Conc: 25



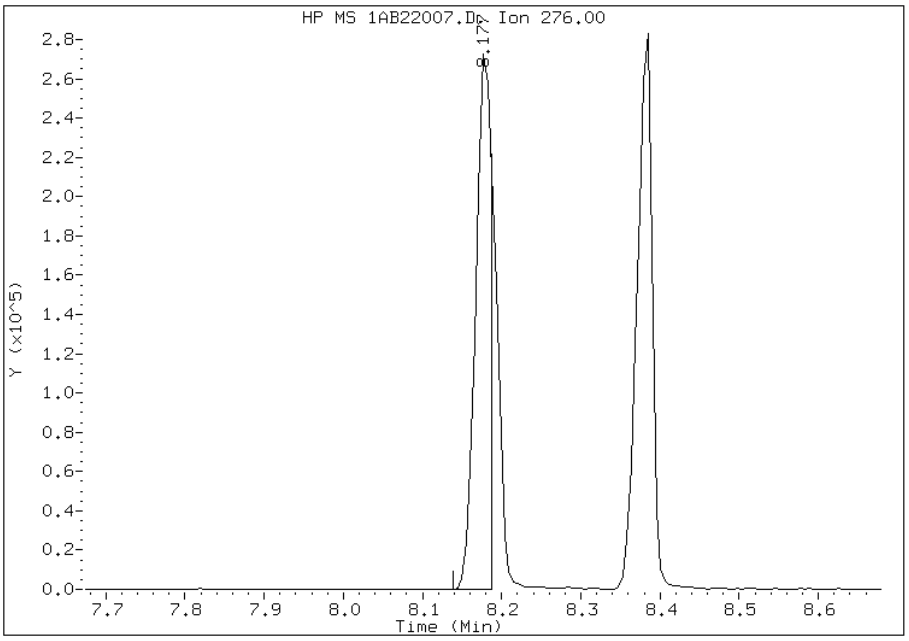
Manual Integration Results

RT: 8.18

Response: 373229

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:51
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22008.D
Lab Smp Id: IC-1512373
Inj Date : 22-FEB-2013 12:17
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512373
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:02 Cal File: 1AB22007.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	2.389	2.396	(1.000)	991596	40.0000	
* 6 Acenaphthene-d10	164	3.415	3.416	(1.000)	638966	40.0000	
* 10 Phenanthrene-d10	188	4.355	4.351	(1.000)	958764	40.0000	
$ 14 o-Terphenyl	230	4.633	4.634	(1.064)	454607	30.0000	32.5859
* 18 Chrysene-d12	240	6.369	6.365	(1.000)	877633	40.0000	
* 23 Perylene-d12	264	7.459	7.455	(1.000)	909629	40.0000	
2 Naphthalene	128	2.405	2.401	(1.007)	755068	30.0000	31.6010
3 2-Methylnaphthalene	141	2.806	2.807	(1.174)	392415	30.0000	31.8135
4 1-Methylnaphthalene	142	2.859	2.861	(1.197)	443774	30.0000	32.3081
5 Acenaphthylene	152	3.329	3.331	(0.975)	777111	30.0000	32.5722
7 Acenaphthene	154	3.436	3.433	(1.006)	451477	30.0000	32.7495
9 Fluorene	166	3.746	3.742	(1.097)	560865	30.0000	32.2347
11 Phenanthrene	178	4.371	4.367	(1.004)	768793	30.0000	32.2593
12 Anthracene	178	4.403	4.399	(1.011)	760474	30.0000	32.8515
13 Carbazole	167	4.558	4.554	(1.047)	670812	30.0000	32.8268
15 Fluoranthene	202	5.231	5.227	(1.201)	791244	30.0000	33.2061
16 Pyrene	202	5.397	5.393	(0.847)	842188	30.0000	32.7162
17 Benzo(a)anthracene	228	6.358	6.355	(0.998)	771629	30.0000	29.4453
19 Chrysene	228	6.390	6.387	(1.003)	708418	30.0000	30.2265
20 Benzo(b)fluoranthene	252	7.181	7.177	(0.963)	734907	30.0000	31.8706
21 Benzo(k)fluoranthene	252	7.202	7.199	(0.966)	700196	30.0000	30.1824
22 Benzo(a)pyrene	252	7.411	7.407	(0.994)	676641	30.0000	32.0421
24 Indeno(1,2,3-cd)pyrene	276	8.191	8.176	(1.098)	584416	30.0000	32.2584(M)
25 Dibenzo(a,h)anthracene	278	8.207	8.192	(1.100)	595548	30.0000	31.5453
26 Benzo(g,h,i)perylene	276	8.394	8.385	(1.125)	604332	30.0000	31.3627

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AB22008.D

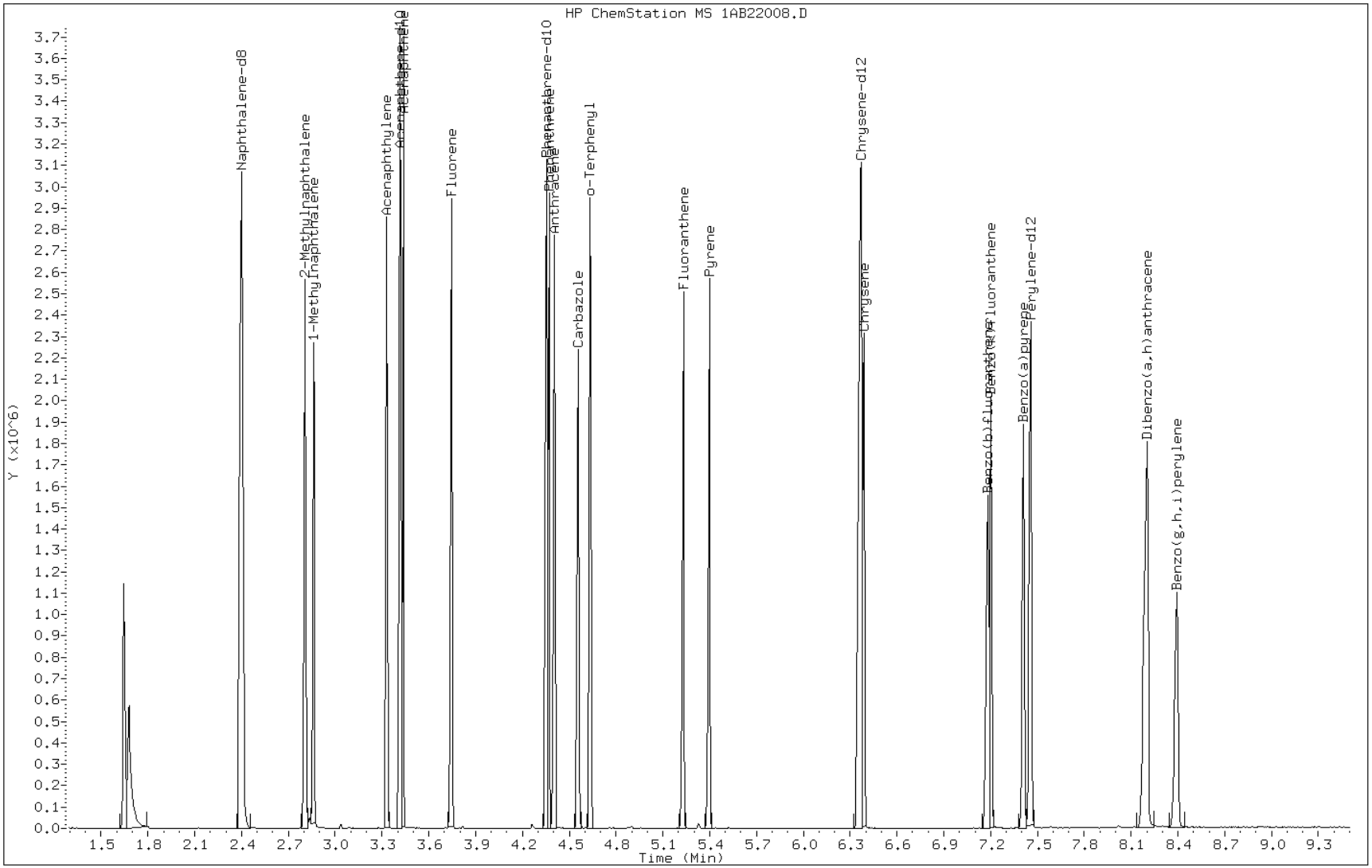
Date: 22-FEB-2013 12:17

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512373

Operator: SCC



Manual Integration Report

Data File: 1AB22008.D
Inj. Date and Time: 22-FEB-2013 12:17
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

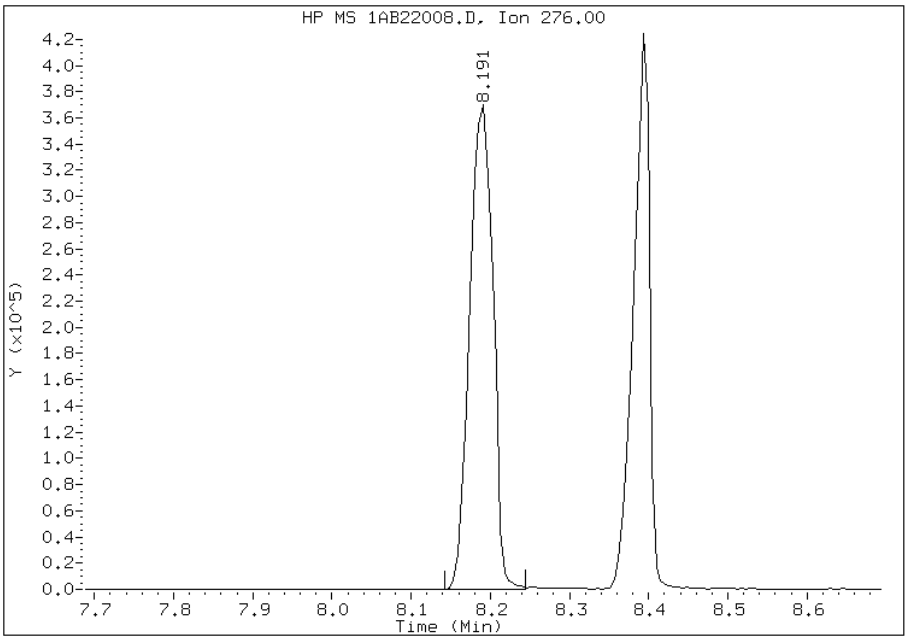
Processing Integration Results

RT: 8.19

Response: 747475

Amount: 34

Conc: 34



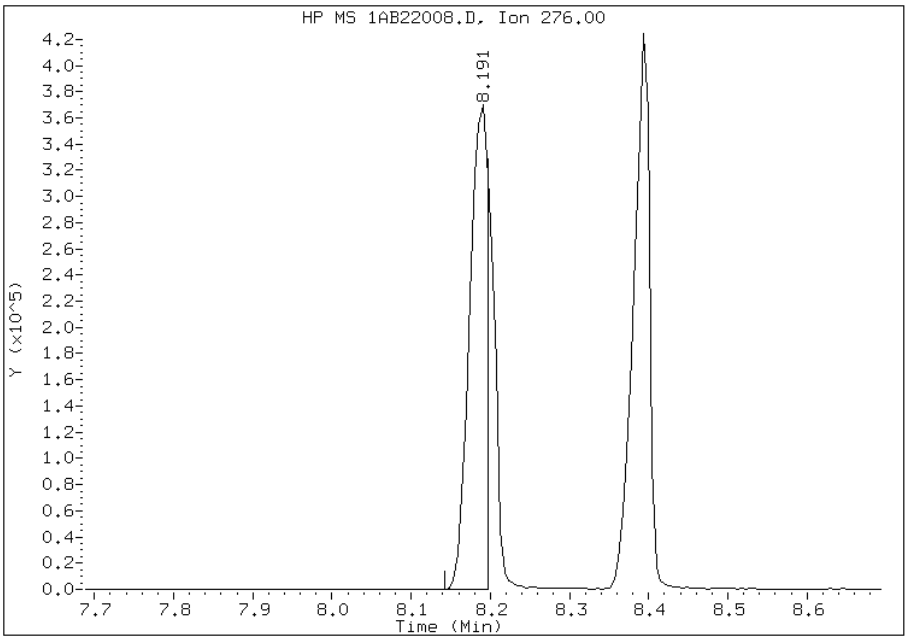
Manual Integration Results

RT: 8.19

Response: 584416

Amount: 32

Conc: 32



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:55
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22009.D
Lab Smp Id: IC-1512374
Inj Date : 22-FEB-2013 12:32
Operator : SCC Inst ID: BSMA5973.i
Smp Info : IC-1512374
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 12:56 BSMA5973.i Quant Type: ISTD
Cal Date : 22-FEB-2013 12:17 Cal File: 1AB22008.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	2.398	2.396	(1.000)	998404	40.0000	
* 6 Acenaphthene-d10	164	3.419	3.416	(1.000)	614159	40.0000	
* 10 Phenanthrene-d10	188	4.354	4.351	(1.000)	947061	40.0000	
$ 14 o-Terphenyl	230	4.637	4.634	(1.065)	805122	50.0000	58.4237(A)
* 18 Chrysene-d12	240	6.373	6.365	(1.000)	892104	40.0000	
* 23 Perylene-d12	264	7.457	7.455	(1.000)	879311	40.0000	
2 Naphthalene	128	2.404	2.401	(1.002)	1297783	50.0000	53.9443(A)
3 2-Methylnaphthalene	141	2.810	2.807	(1.171)	686127	50.0000	55.2458(A)
4 1-Methylnaphthalene	142	2.863	2.861	(1.194)	784083	50.0000	56.6945(A)
5 Acenaphthylene	152	3.333	3.331	(0.975)	1395142	50.0000	60.8387(A)
7 Acenaphthene	154	3.440	3.433	(1.006)	828395	50.0000	62.5178(A)
9 Fluorene	166	3.745	3.742	(1.095)	1022945	50.0000	61.1667(A)
11 Phenanthrene	178	4.375	4.367	(1.005)	1384065	50.0000	58.7944(A)
12 Anthracene	178	4.407	4.399	(1.012)	1356027	50.0000	59.3025(A)
13 Carbazole	167	4.562	4.554	(1.048)	1130623	50.0000	56.0118(A)
15 Fluoranthene	202	5.235	5.227	(1.202)	1364989	50.0000	57.9923(A)
16 Pyrene	202	5.401	5.393	(0.847)	1493658	50.0000	57.0824(A)
17 Benzo(a)anthracene	228	6.357	6.355	(0.997)	1351230	50.0000	50.7265(A)
19 Chrysene	228	6.394	6.387	(1.003)	1205320	50.0000	50.5940(A)
20 Benzo(b)fluoranthene	252	7.185	7.177	(0.963)	1222288	50.0000	54.8345(A)
21 Benzo(k)fluoranthene	252	7.212	7.199	(0.967)	1218648	50.0000	54.3418(A)
22 Benzo(a)pyrene	252	7.420	7.407	(0.995)	1142888	50.0000	55.9872(A)
24 Indeno(1,2,3-cd)pyrene	276	8.200	8.176	(1.100)	960232	50.0000	54.8300(AM)
25 Dibenzo(a,h)anthracene	278	8.216	8.192	(1.102)	1030642	50.0000	56.4740(A)
26 Benzo(g,h,i)perylene	276	8.403	8.385	(1.127)	1012084	50.0000	54.3345(A)

QC Flag Legend

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

Data File: 1AB22009.D

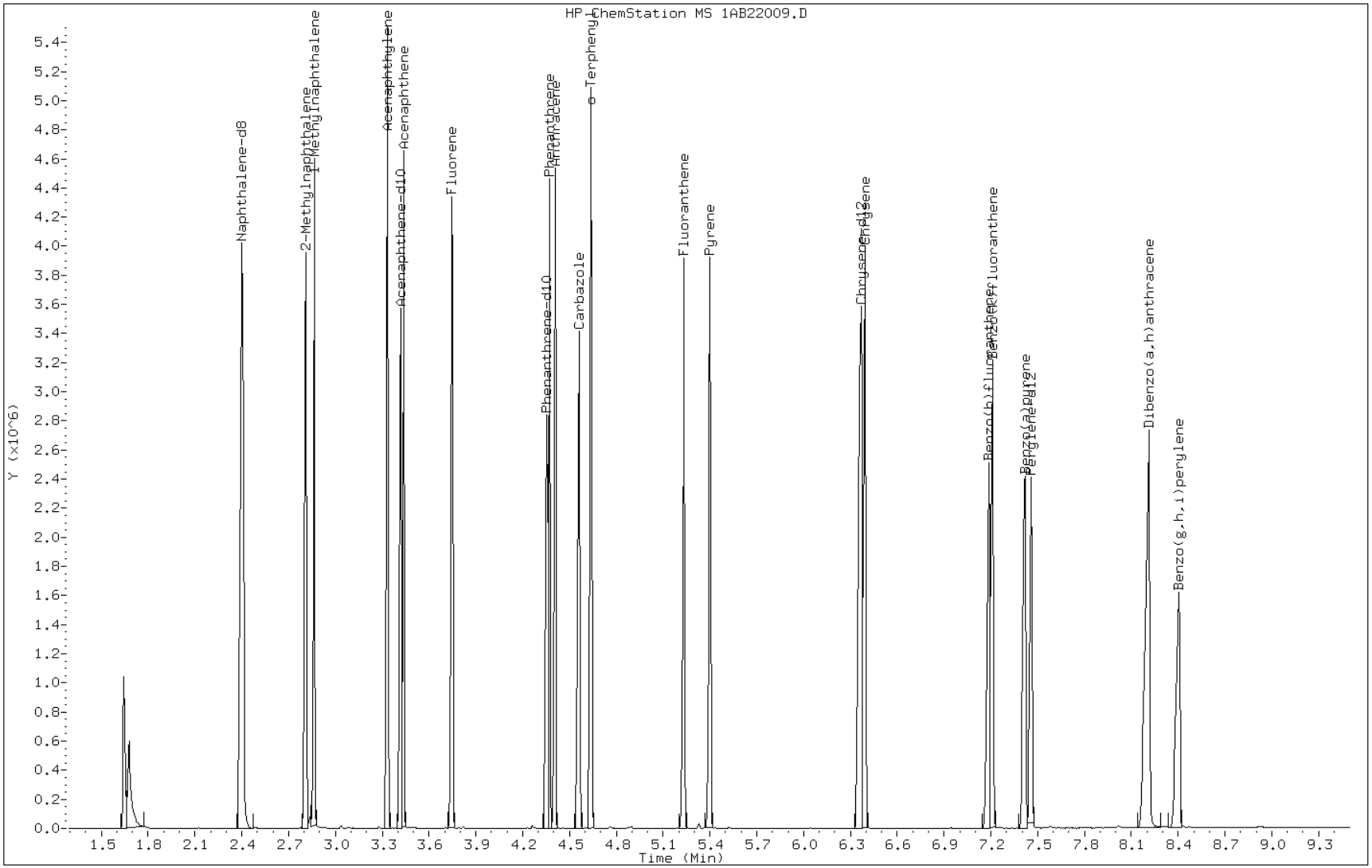
Date: 22-FEB-2013 12:32

Client ID:

Instrument: BSMA5973.i

Sample Info: IC-1512374

Operator: SCC



Manual Integration Report

Data File: 1AB22009.D
Inj. Date and Time: 22-FEB-2013 12:32
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

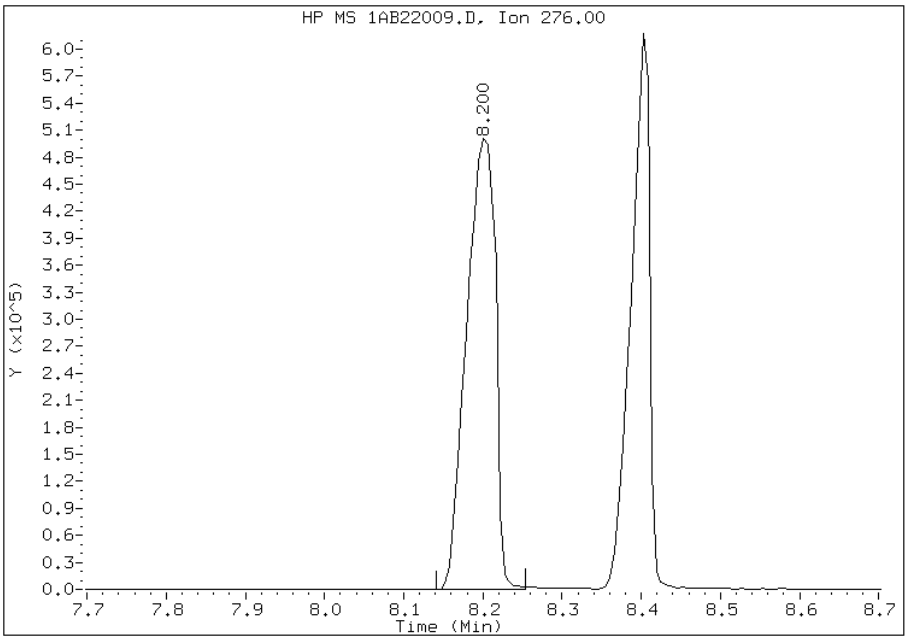
Processing Integration Results

RT: 8.20

Response: 1257157

Amount: 57

Conc: 57



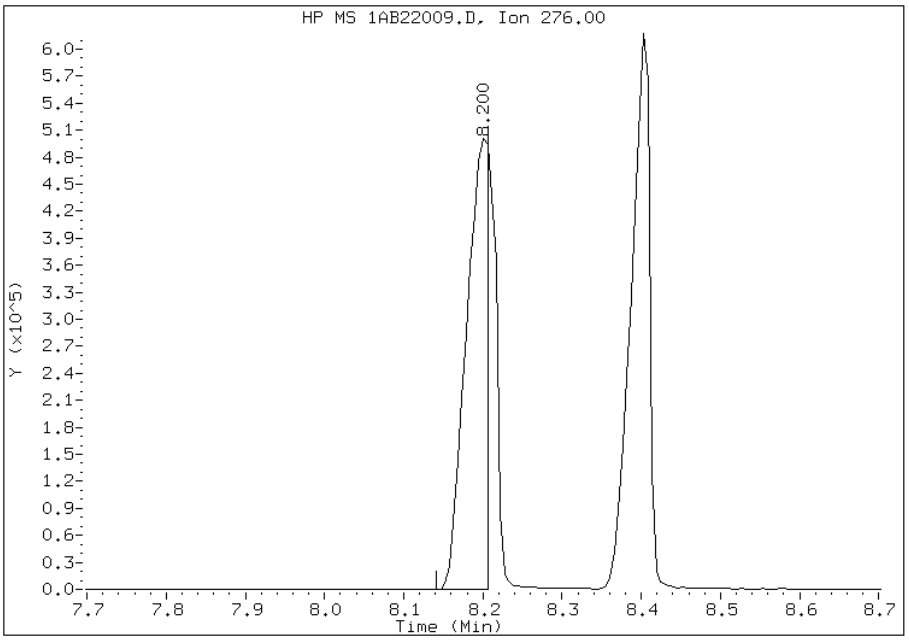
Manual Integration Results

RT: 8.20

Response: 960232

Amount: 55

Conc: 55



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 12:56
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-3 Analy Batch No.: 133227

SDG No.: 68087496-3

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.: 680-87496-3 Analy Batch No.: 133227

SDG No.: 68087496-3

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.: 680-87496-3 Analy Batch No.: 133227

SDG No.: 68087496-3

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.: 680-87496-3 Analy Batch No.: 133227

SDG No.: 68087496-3

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

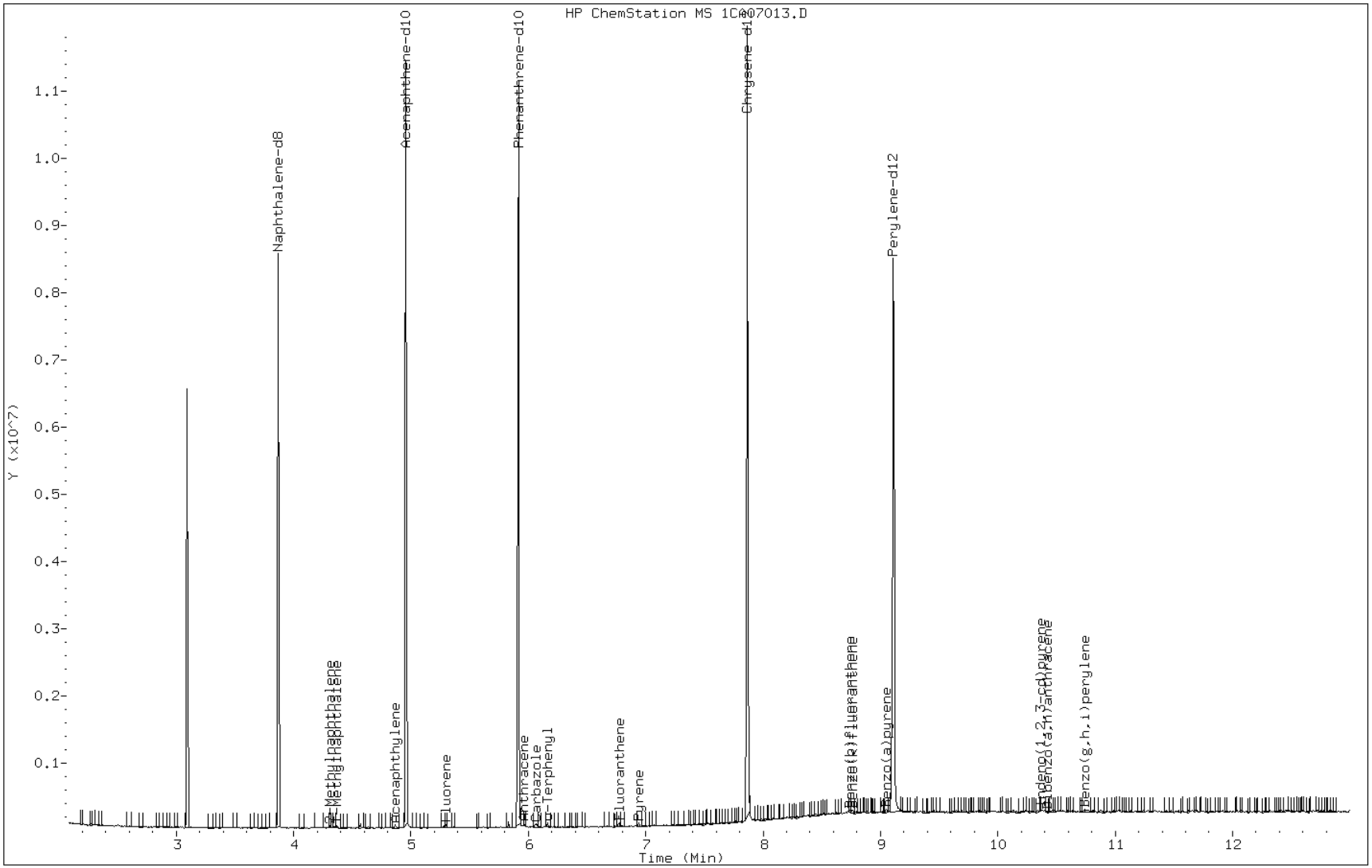
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

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

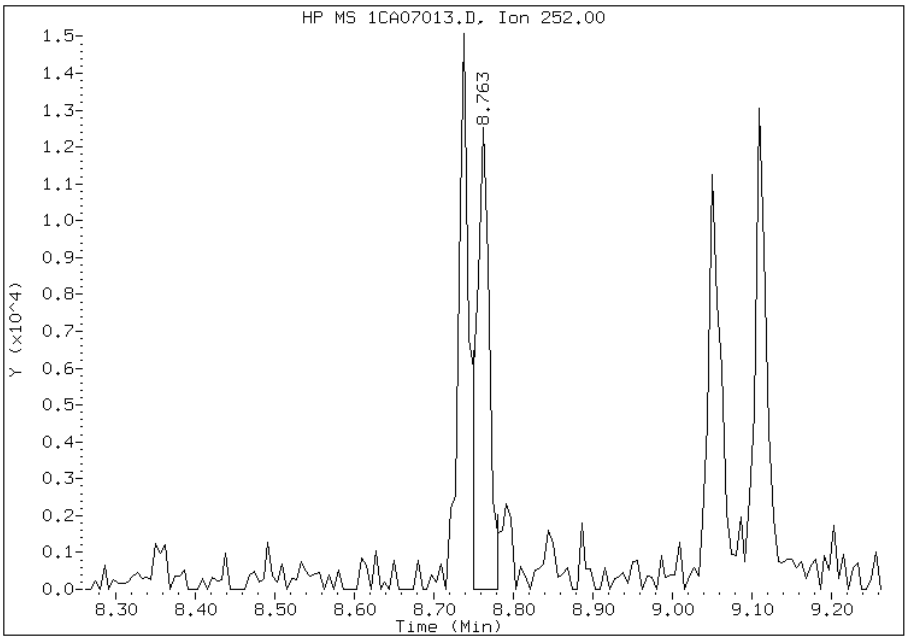
Processing Integration Results

RT: 8.76

Response: 14049

Amount: 0

Conc: 0



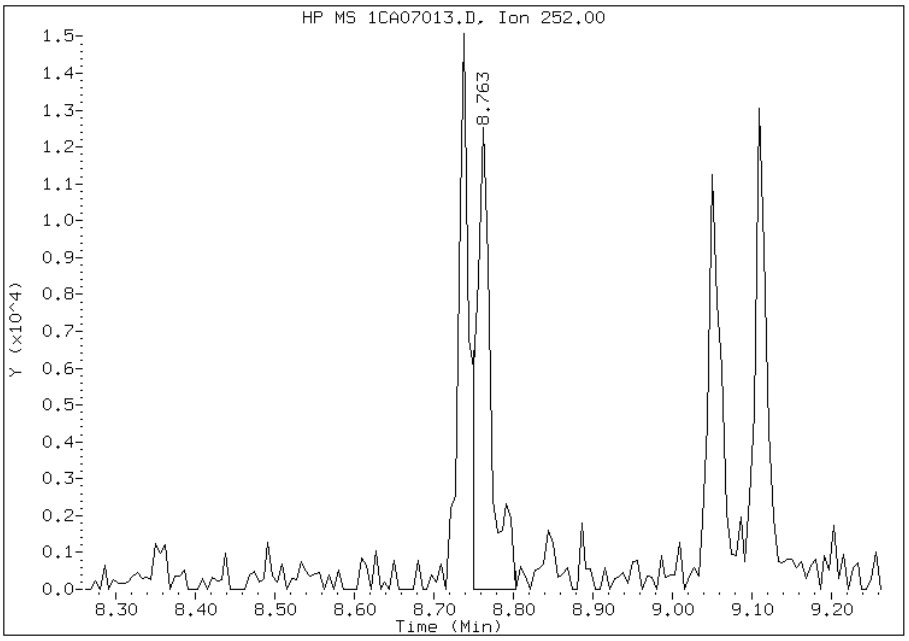
Manual Integration Results

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

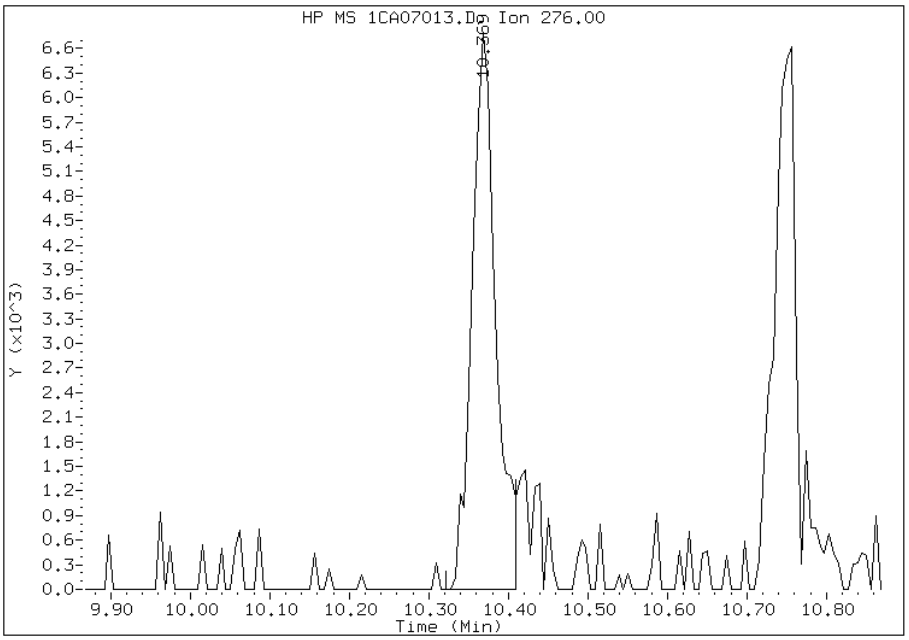
Processing Integration Results

RT: 10.37

Response: 14154

Amount: 0

Conc: 0



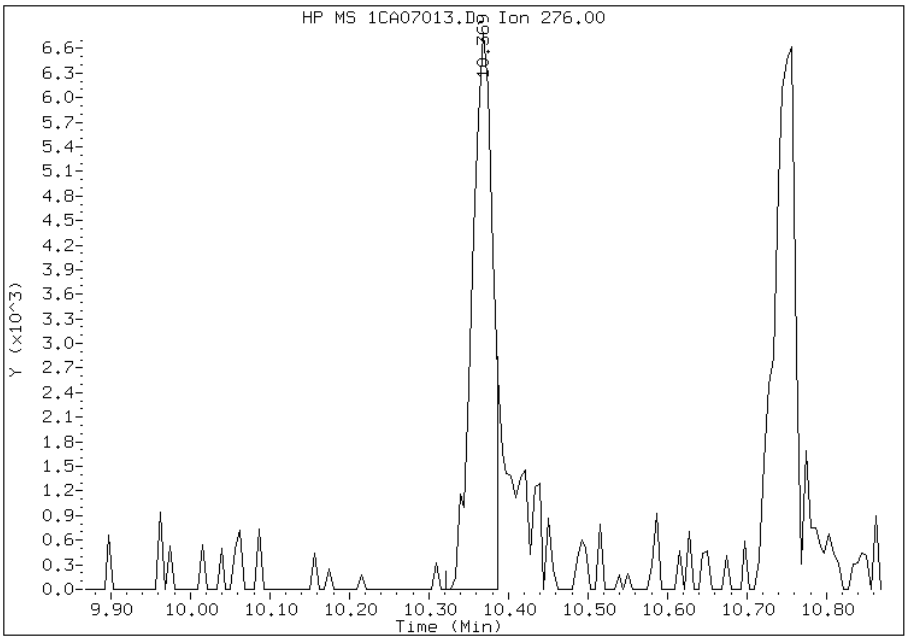
Manual Integration Results

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

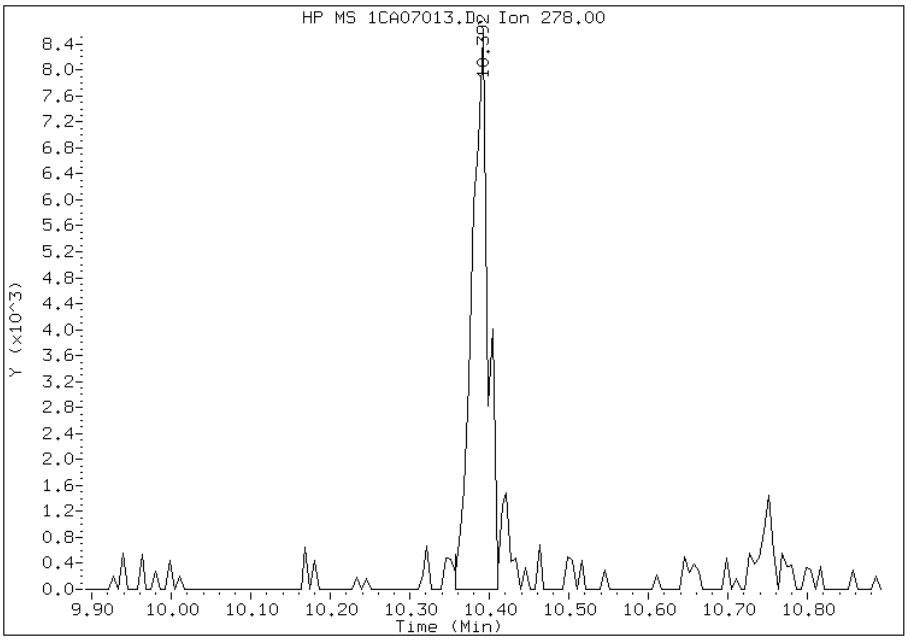
Processing Integration Results

RT: 10.39

Response: 12138

Amount: 0

Conc: 0



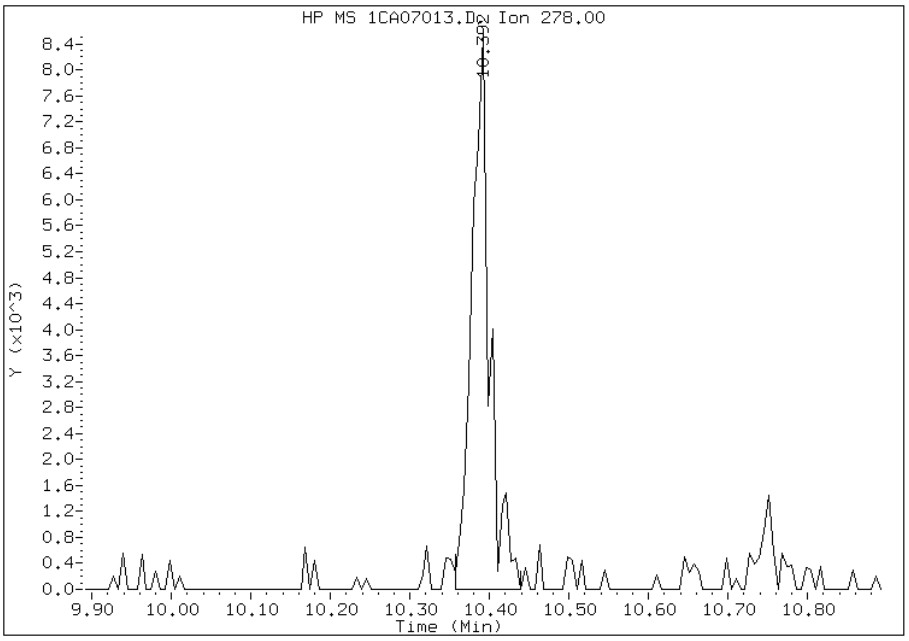
Manual Integration Results

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

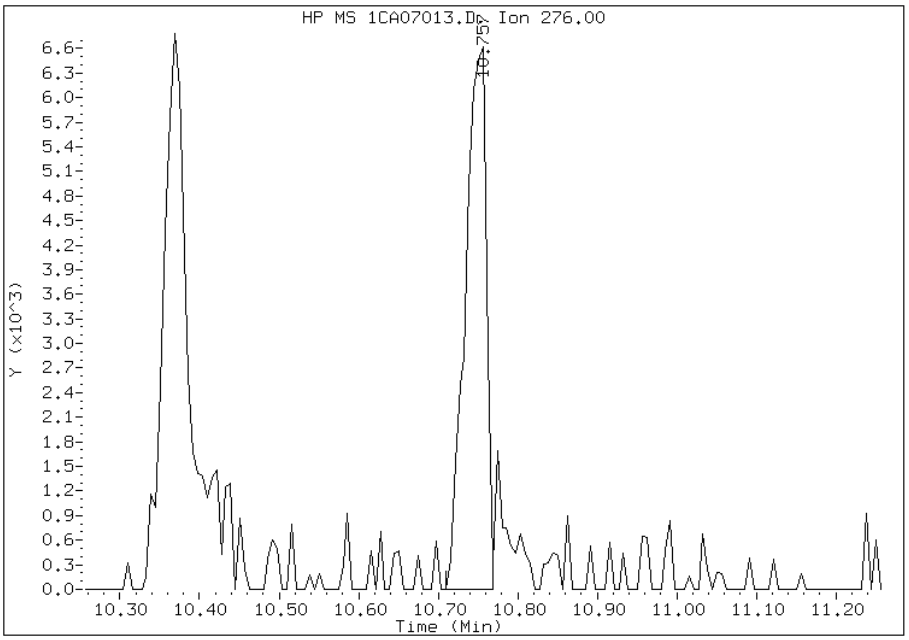
Processing Integration Results

RT: 10.76

Response: 12183

Amount: 0

Conc: 0



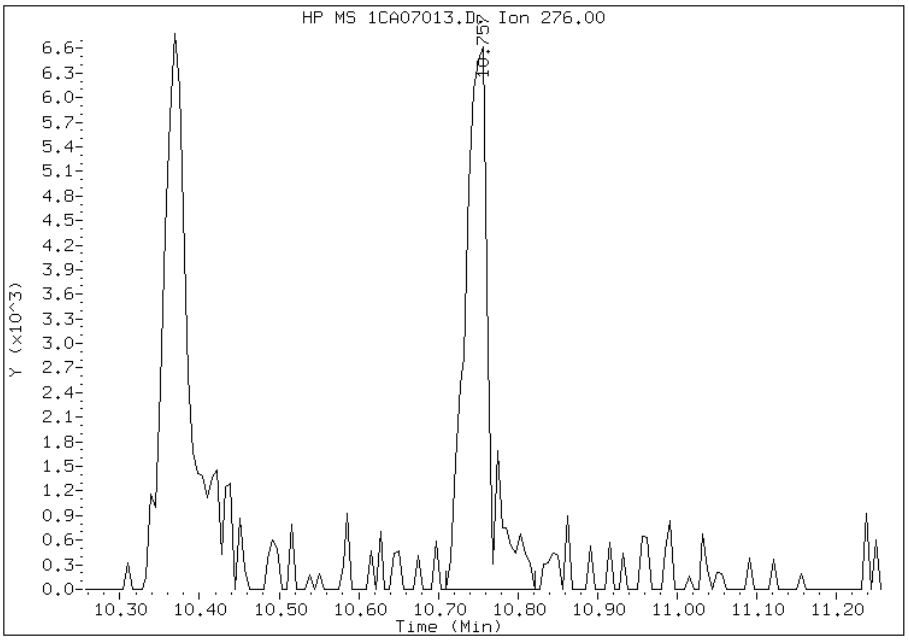
Manual Integration Results

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

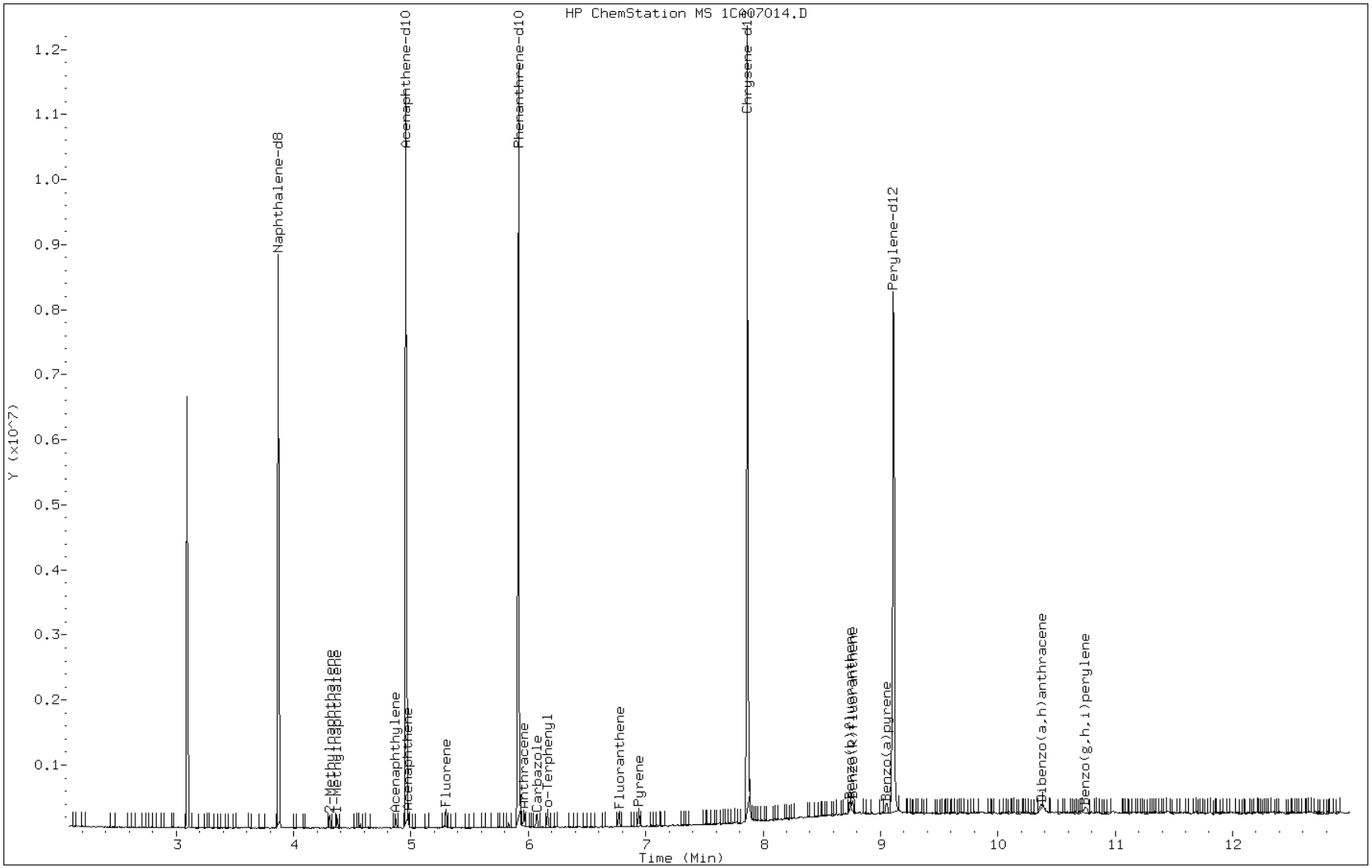
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

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

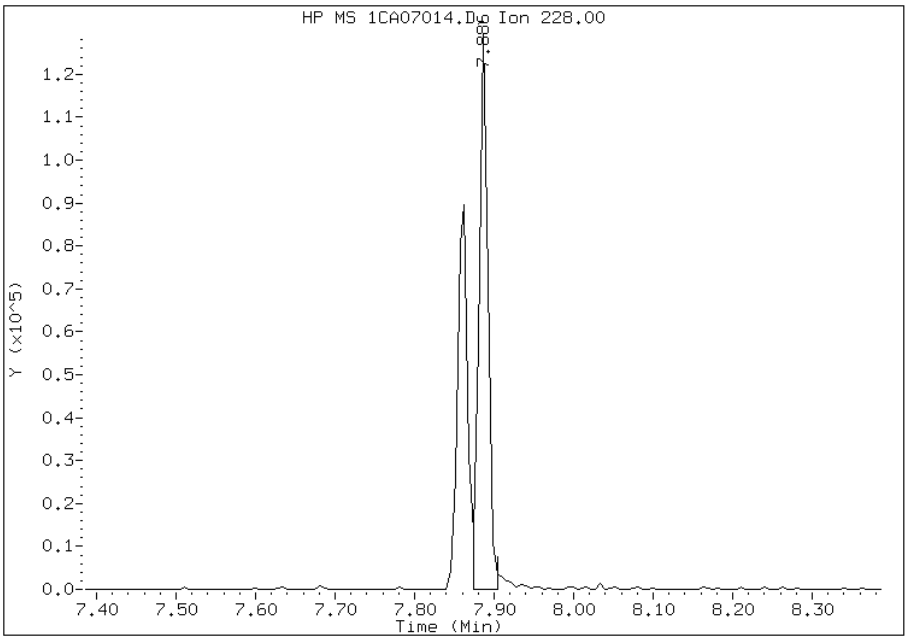
Processing Integration Results

RT: 7.89

Response: 101100

Amount: 1

Conc: 1



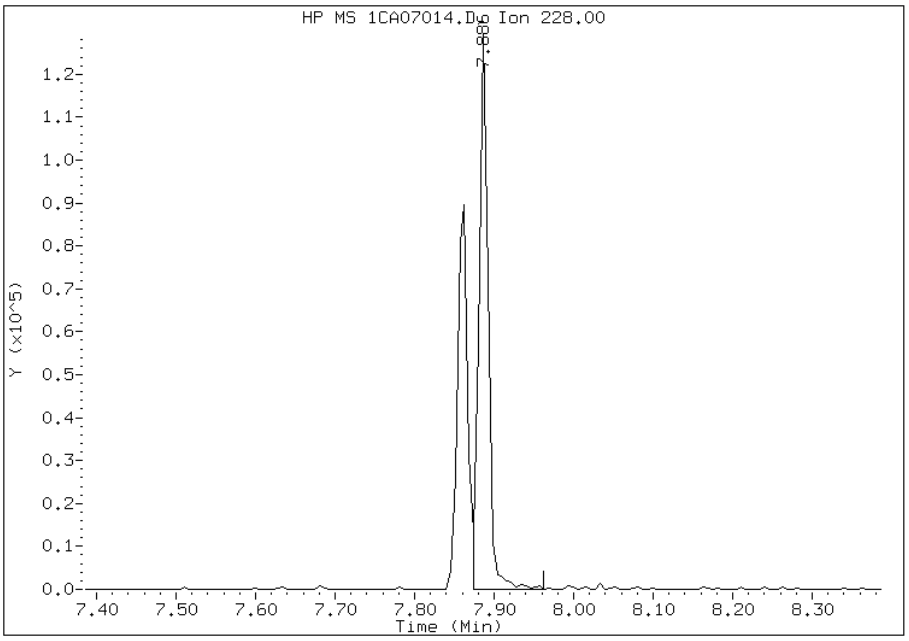
Manual Integration Results

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

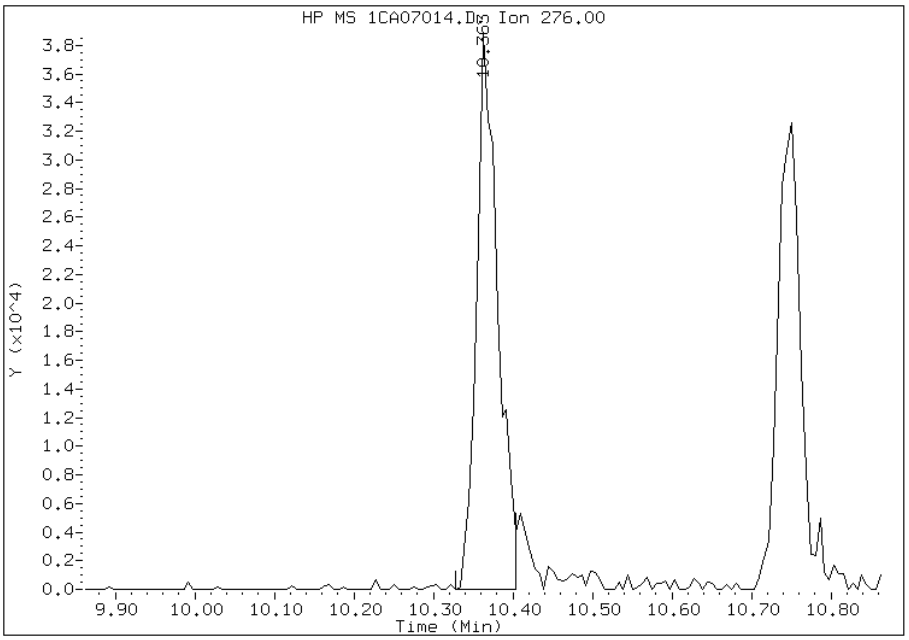
Processing Integration Results

RT: 10.36

Response: 72270

Amount: 1

Conc: 1



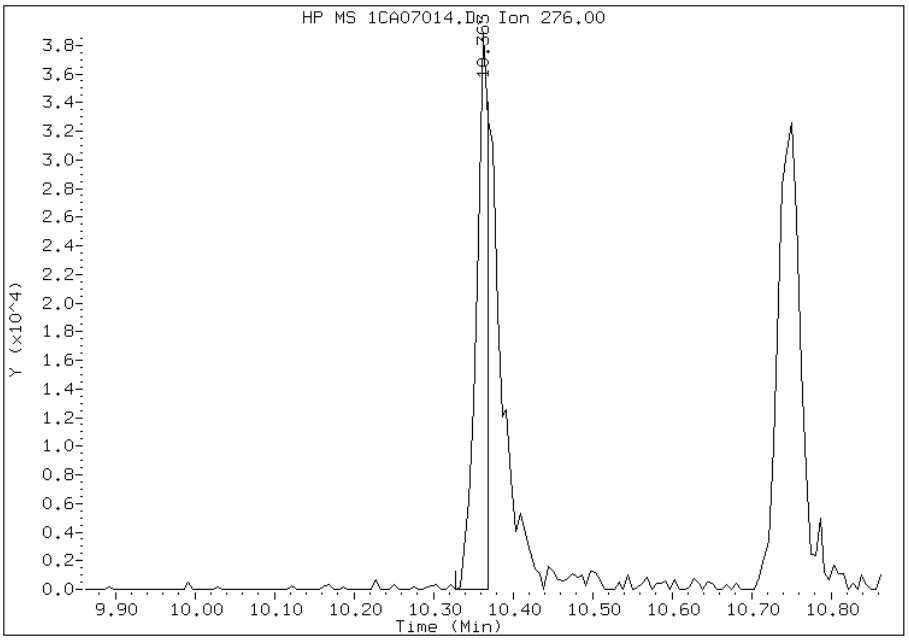
Manual Integration Results

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

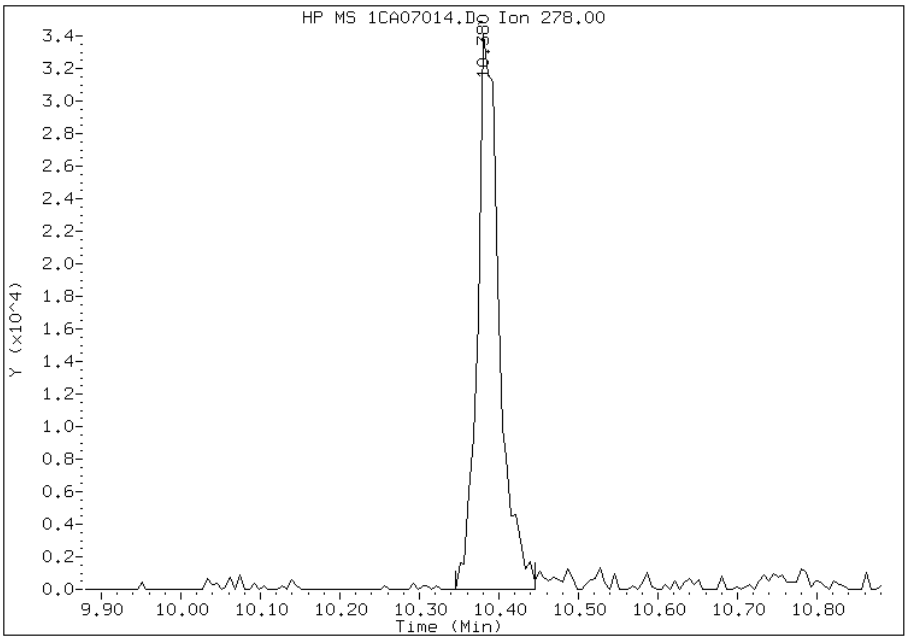
Processing Integration Results

RT: 10.38

Response: 65243

Amount: 1

Conc: 1



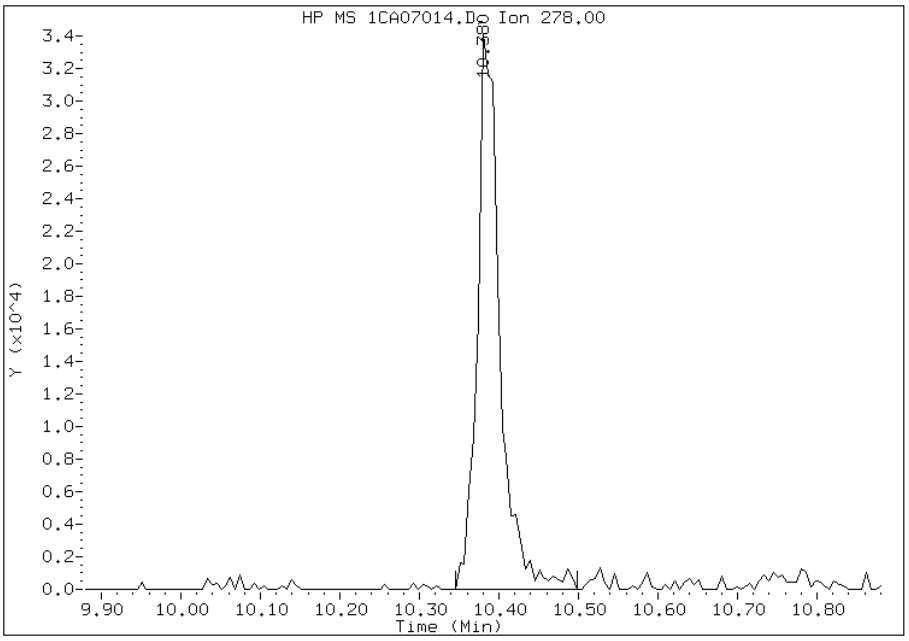
Manual Integration Results

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

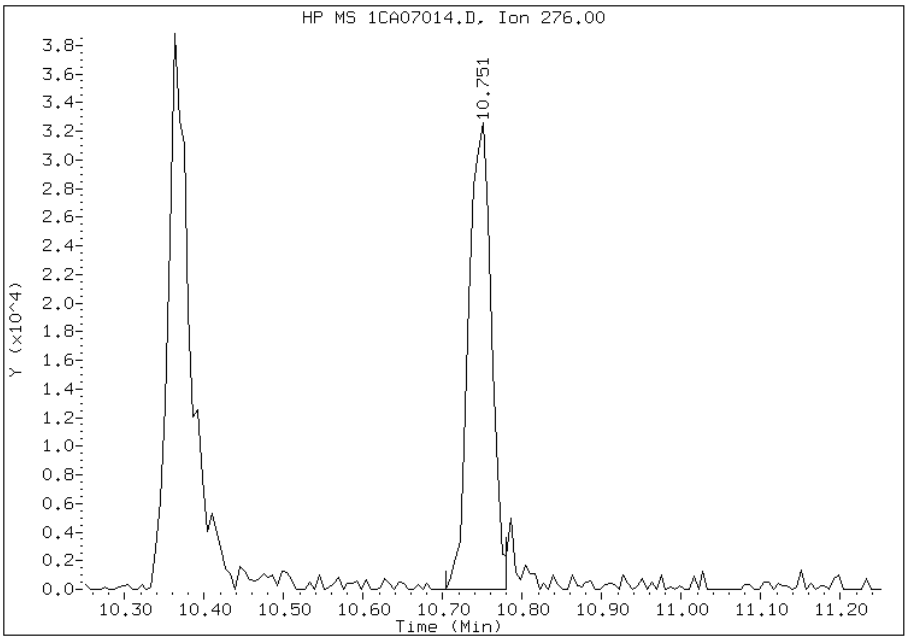
Processing Integration Results

RT: 10.75

Response: 64475

Amount: 1

Conc: 1



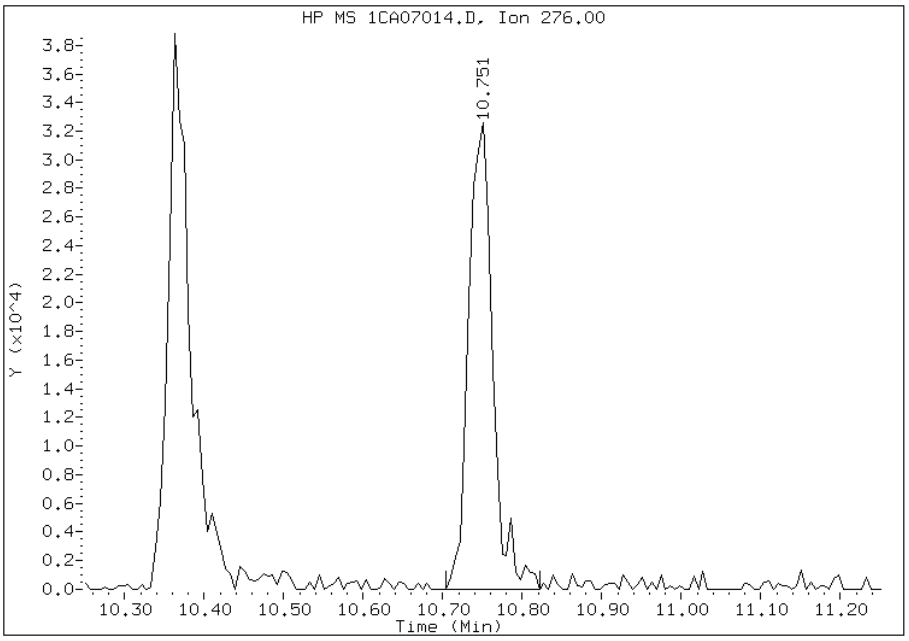
Manual Integration Results

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

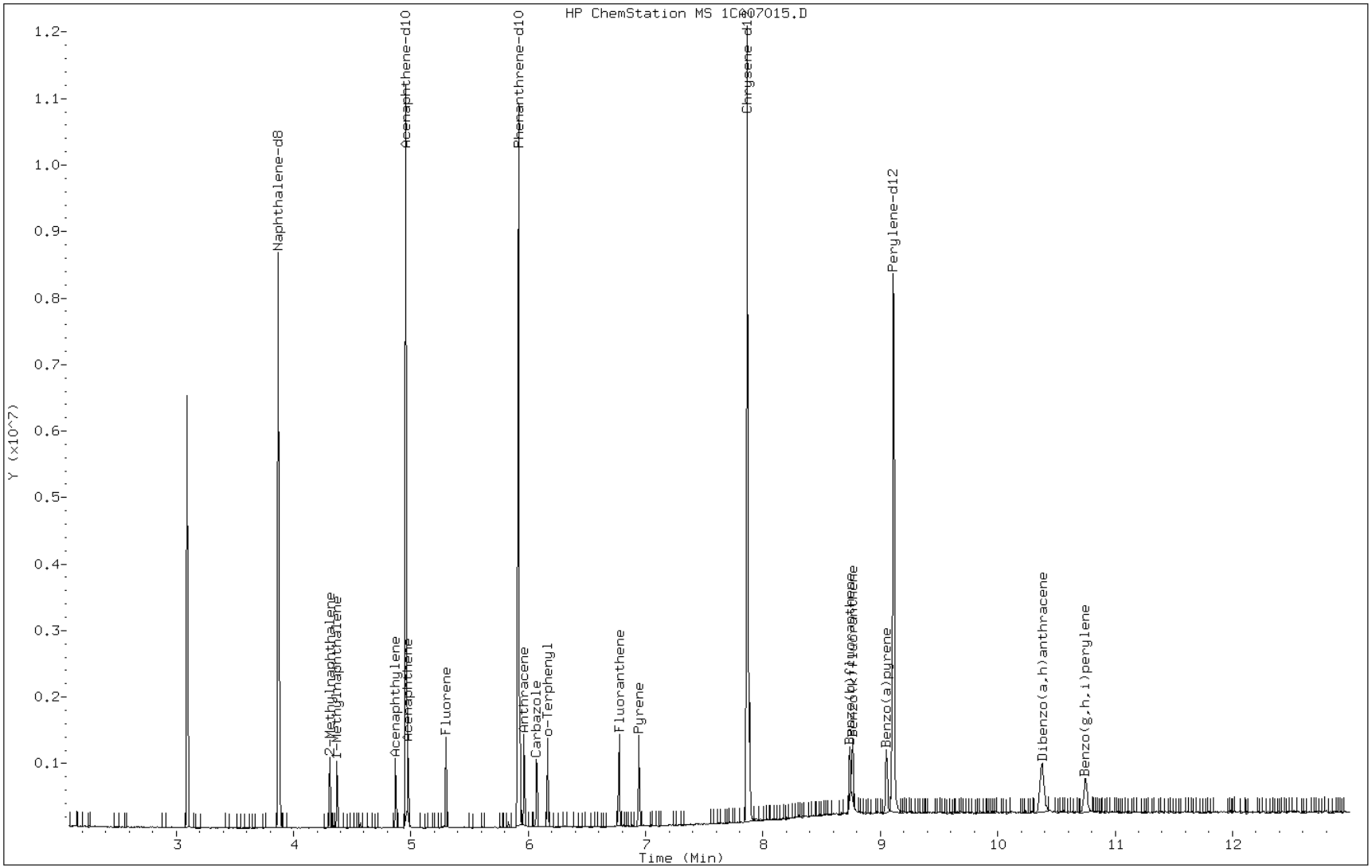
M - Compound response manually integrated.

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

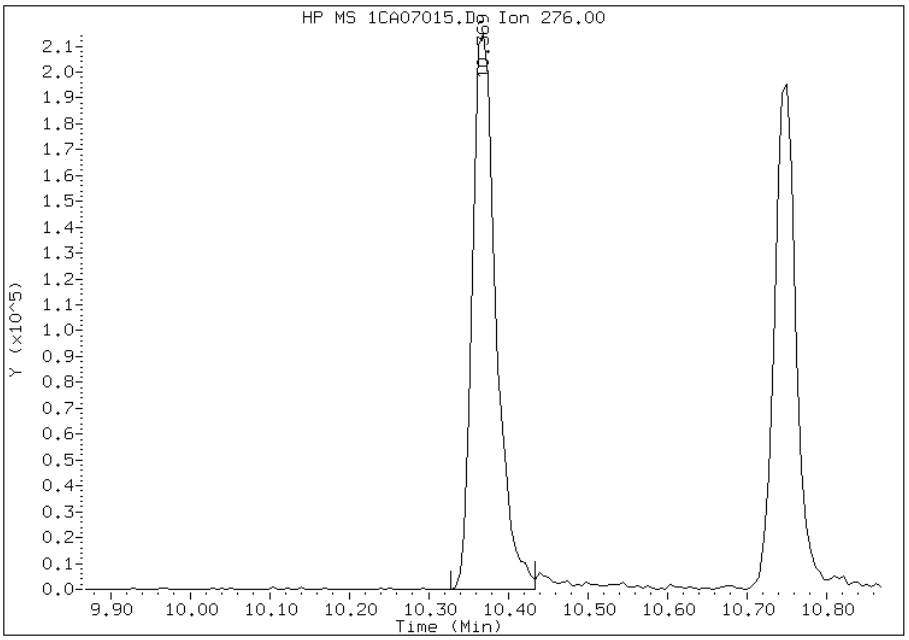
Processing Integration Results

RT: 10.37

Response: 445493

Amount: 6

Conc: 6



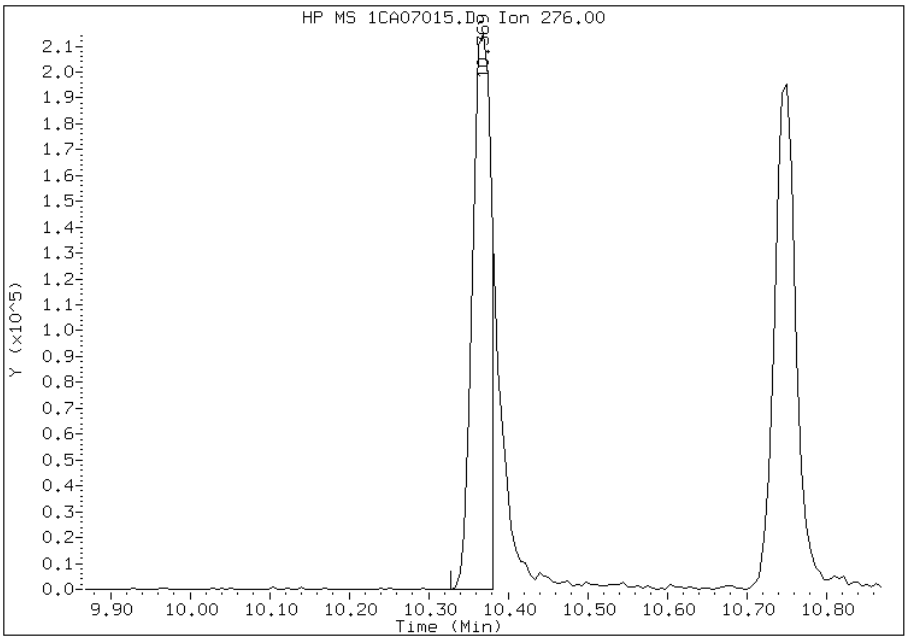
Manual Integration Results

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

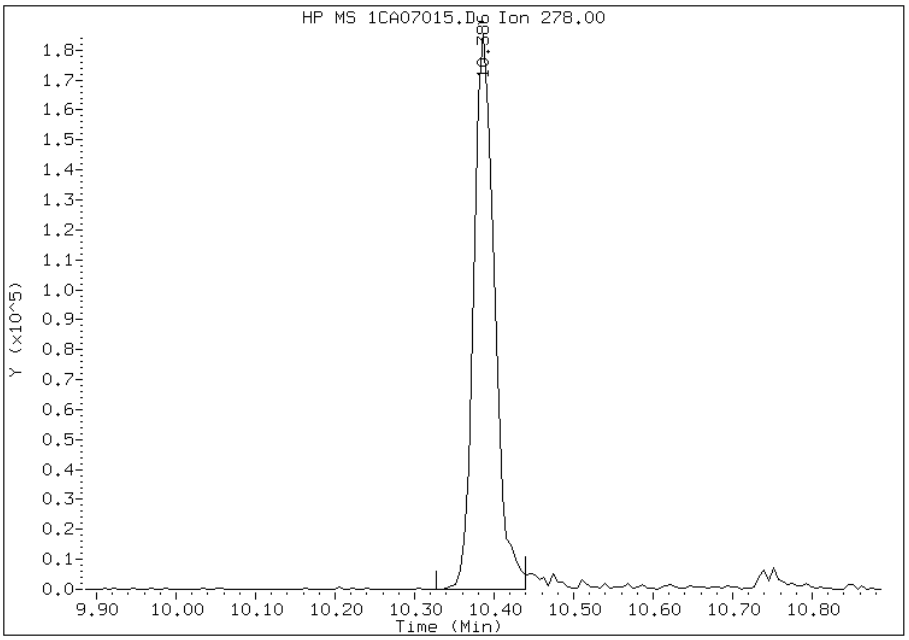
Processing Integration Results

RT: 10.39

Response: 335936

Amount: 5

Conc: 5



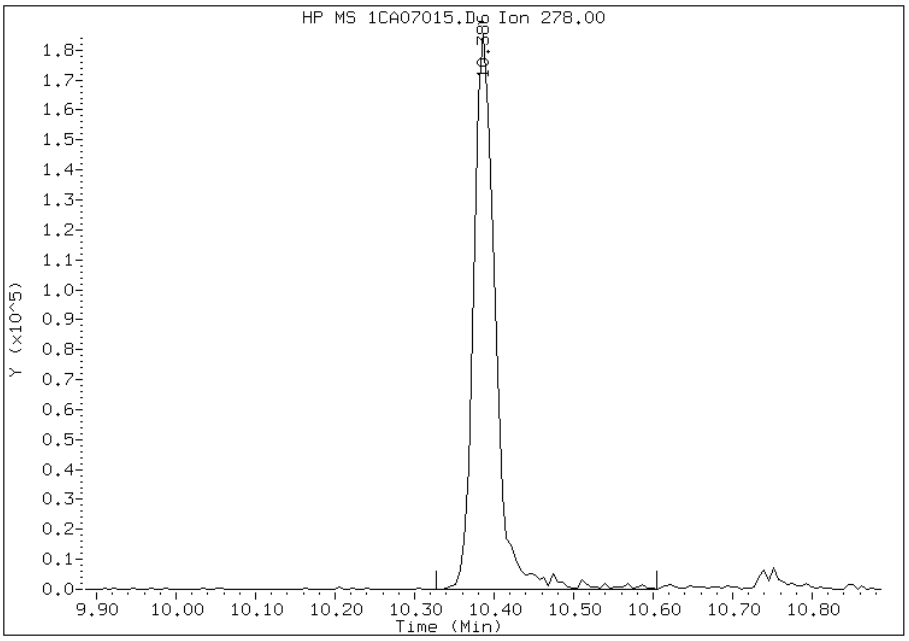
Manual Integration Results

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

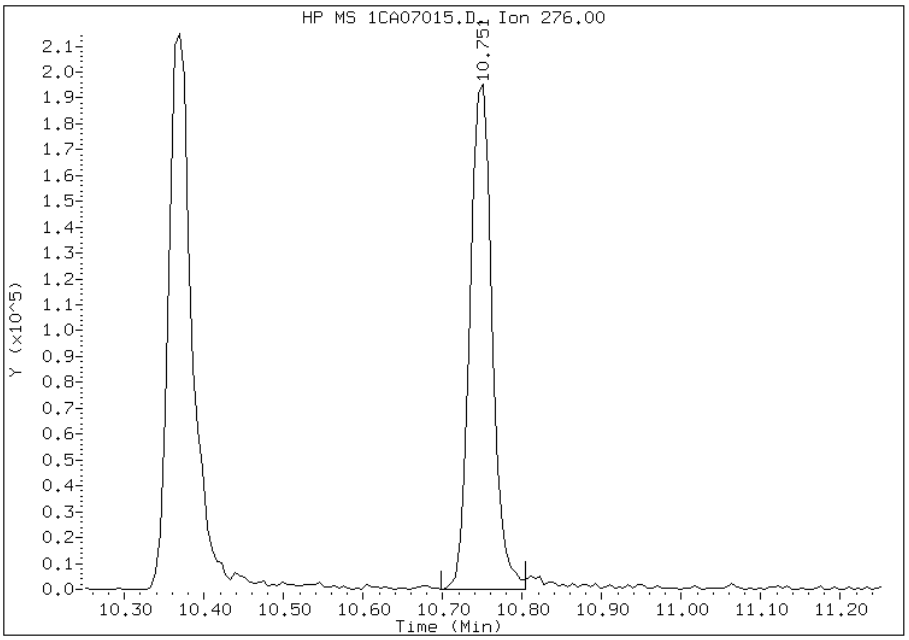
Processing Integration Results

RT: 10.75

Response: 377997

Amount: 5

Conc: 5



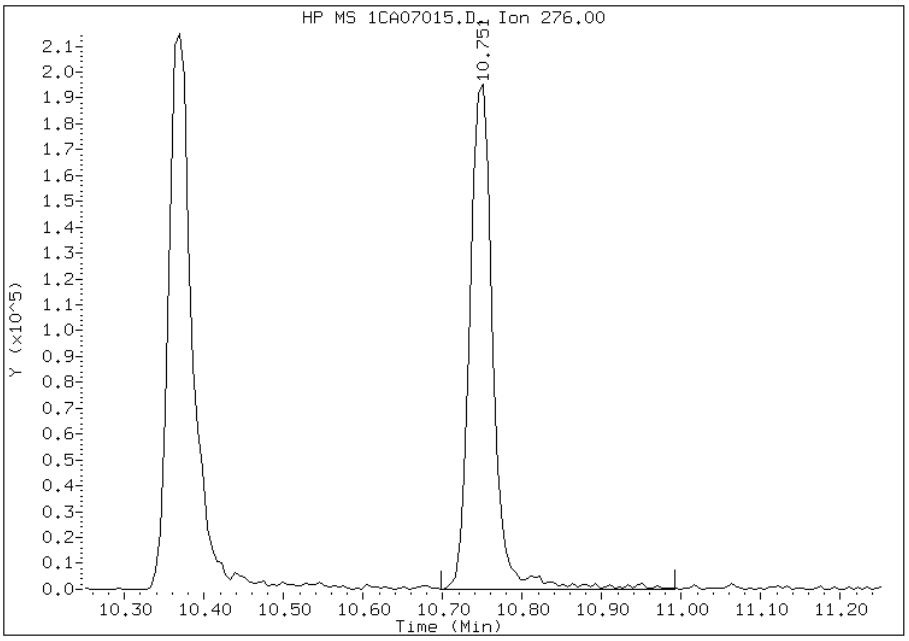
Manual Integration Results

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

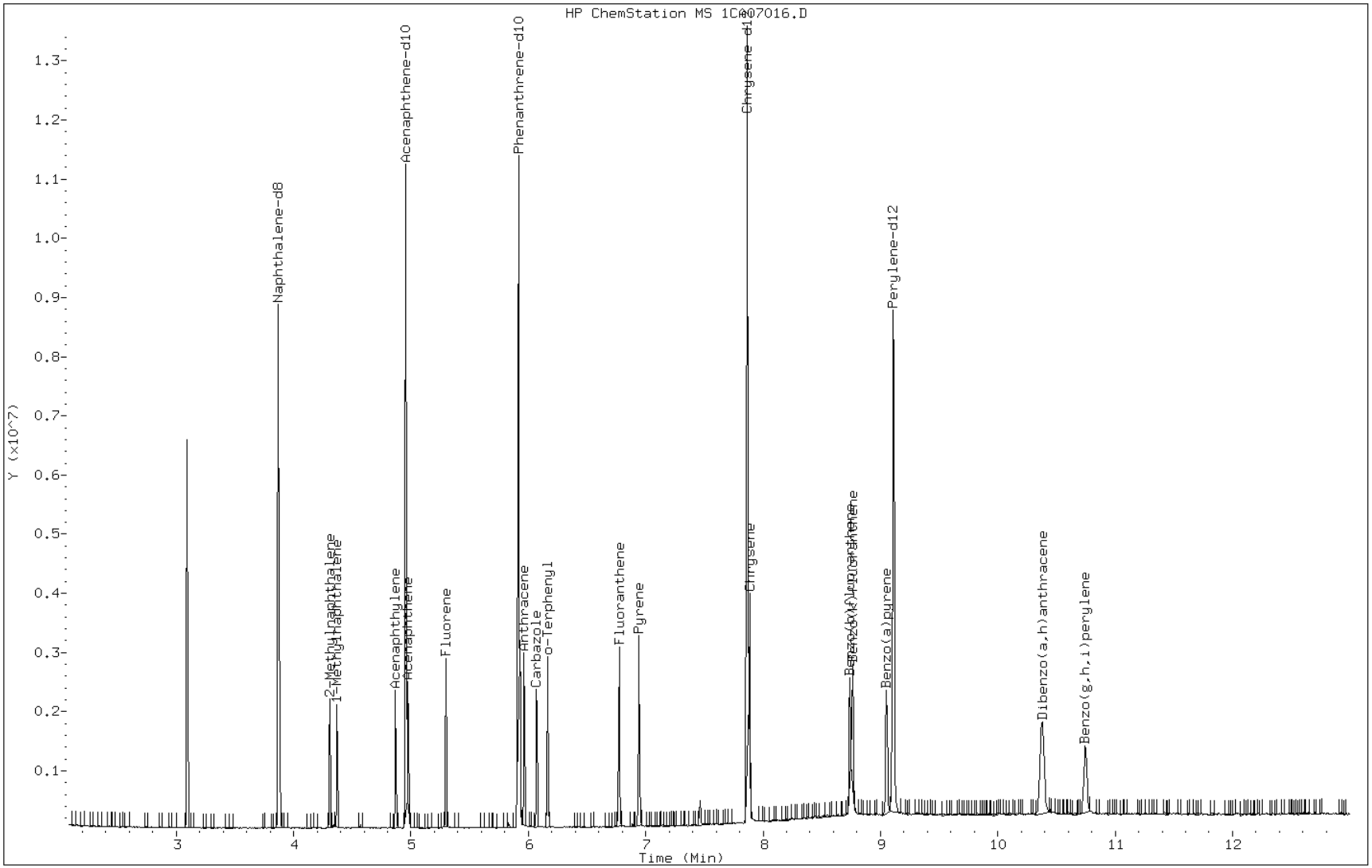
M - Compound response manually integrated.

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

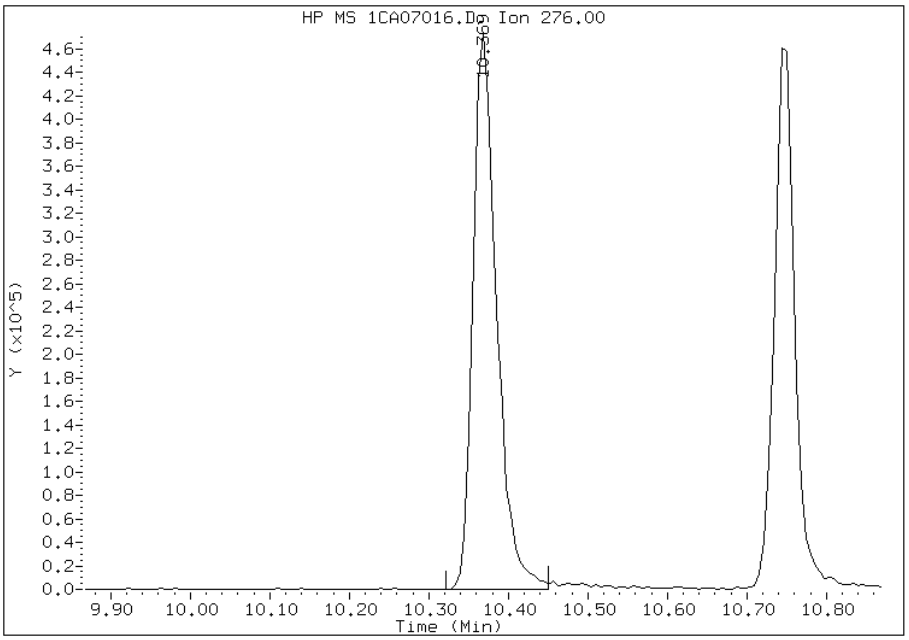
Processing Integration Results

RT: 10.37

Response: 970985

Amount: 12

Conc: 12



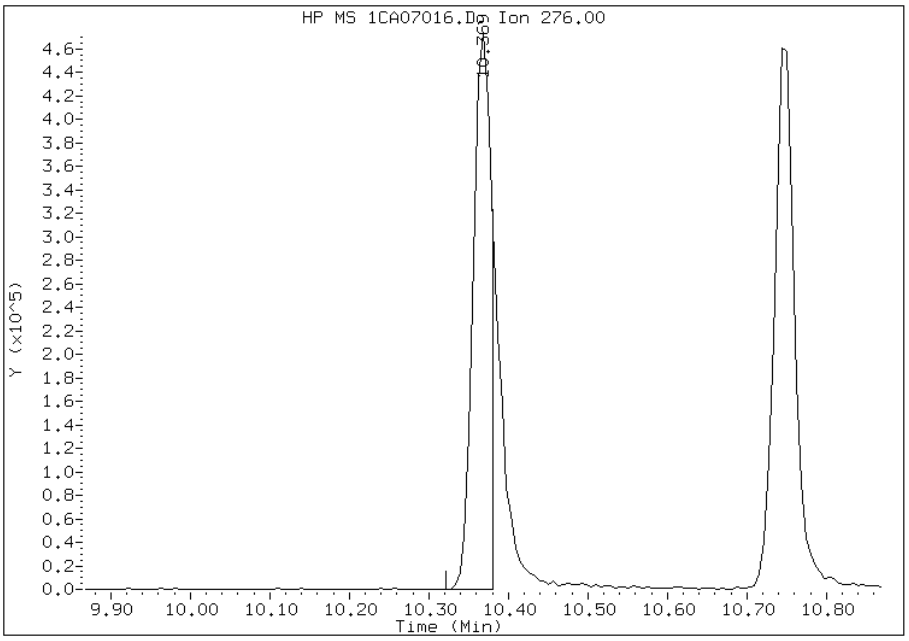
Manual Integration Results

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

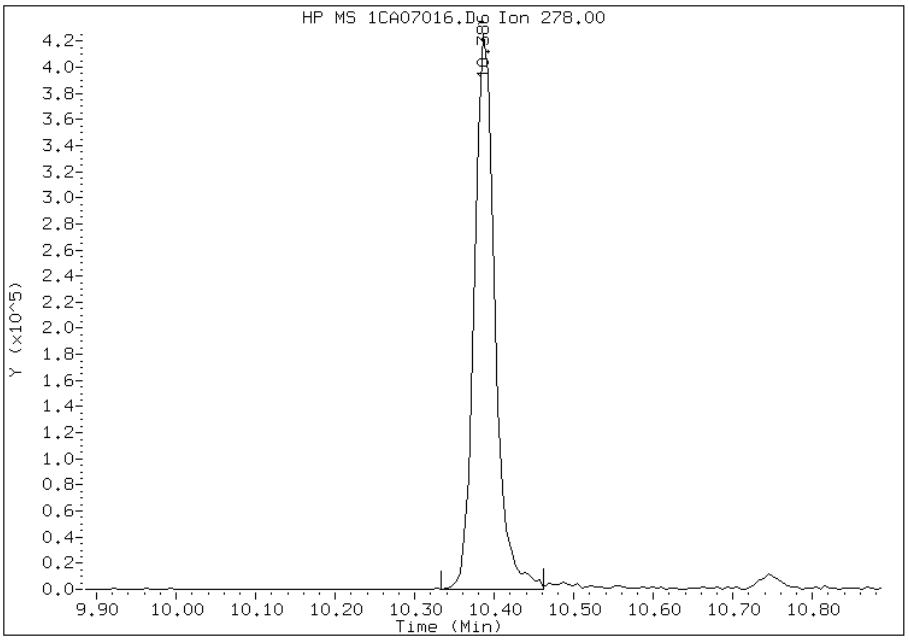
Processing Integration Results

RT: 10.39

Response: 764351

Amount: 10

Conc: 10



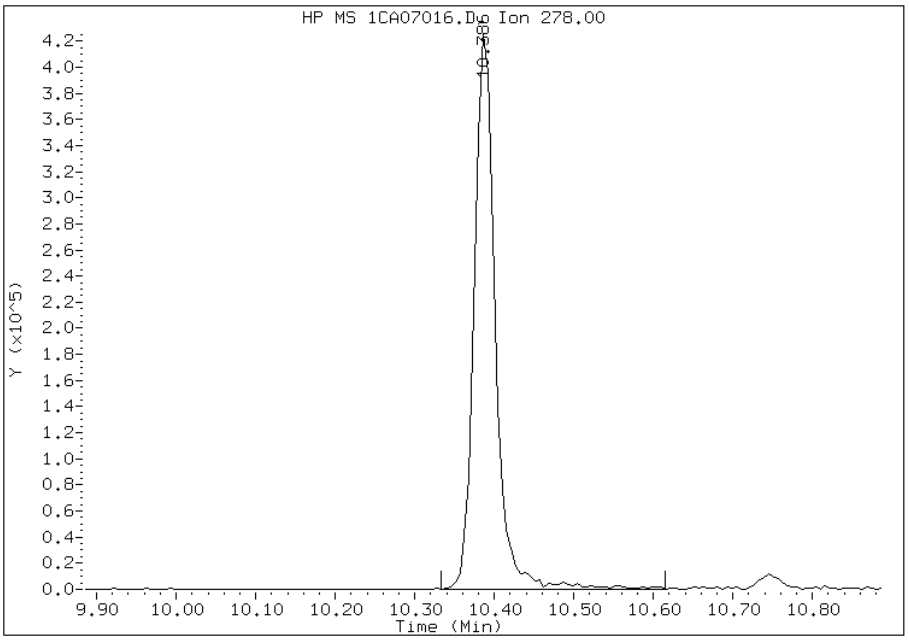
Manual Integration Results

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

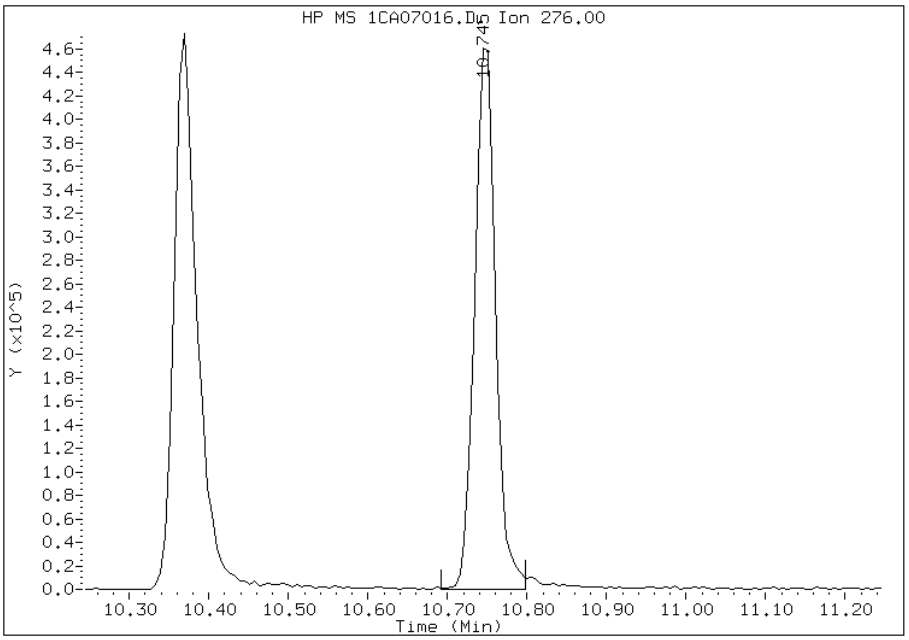
Processing Integration Results

RT: 10.74

Response: 835718

Amount: 10

Conc: 10



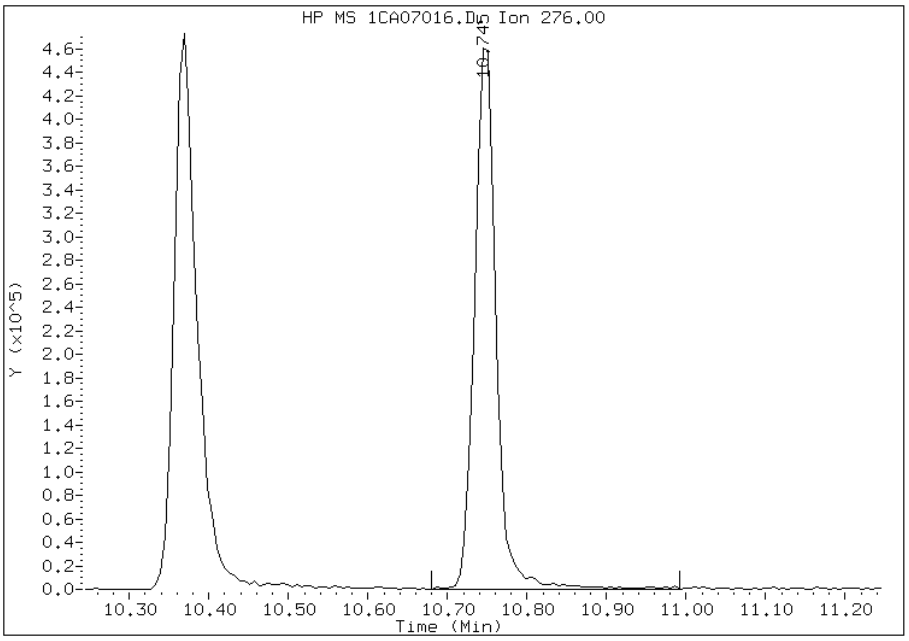
Manual Integration Results

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

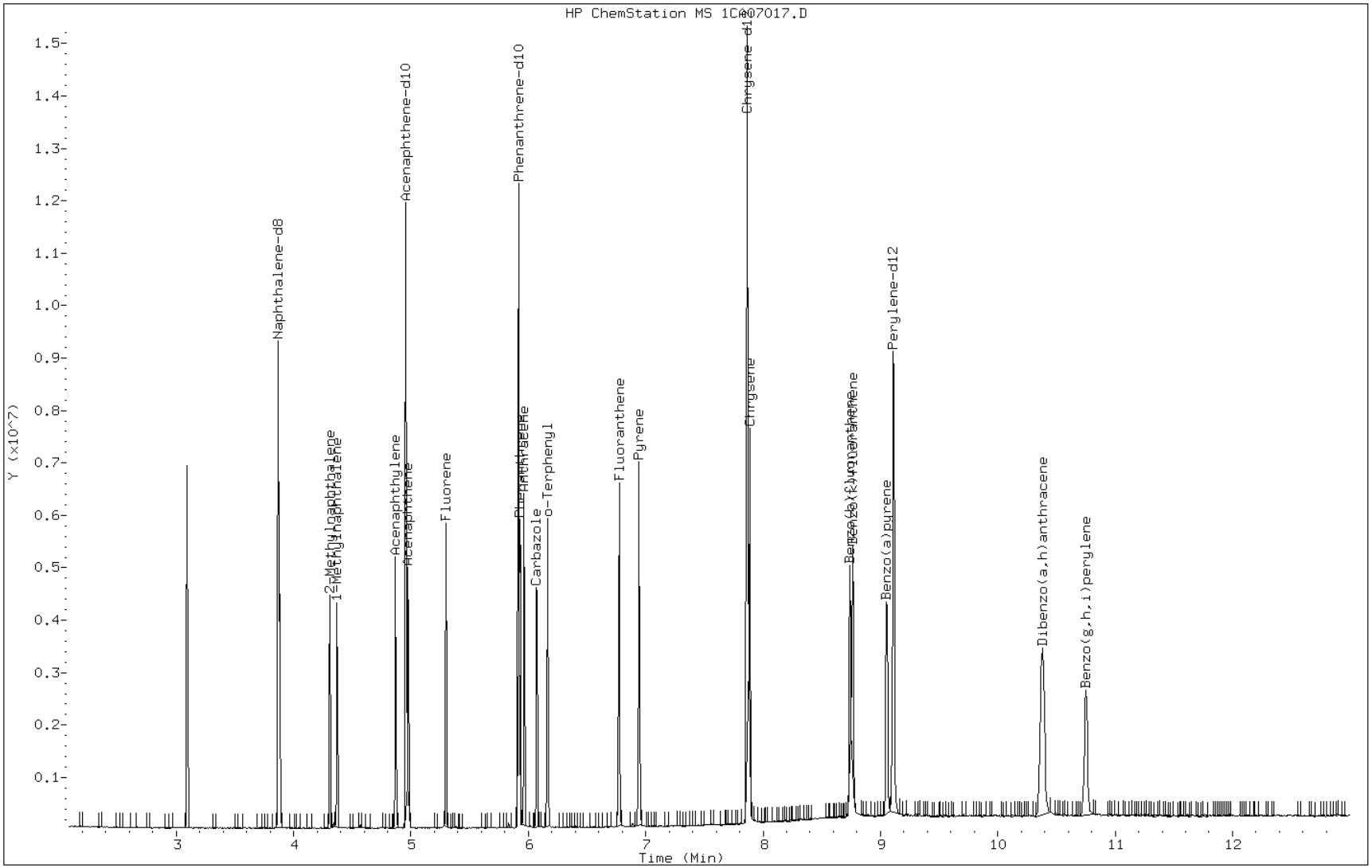
M - Compound response manually integrated.

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

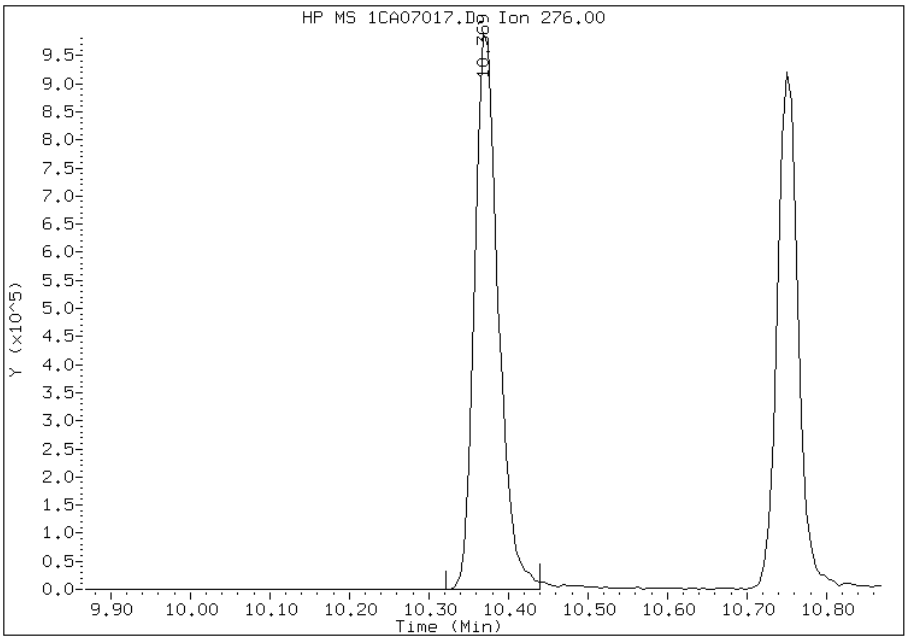
Processing Integration Results

RT: 10.37

Response: 2044337

Amount: 23

Conc: 23



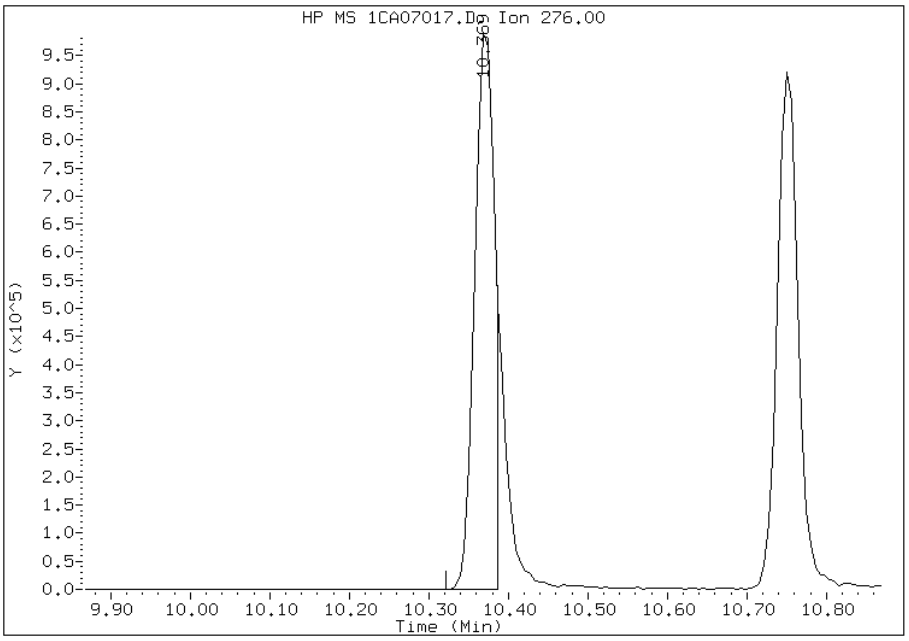
Manual Integration Results

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

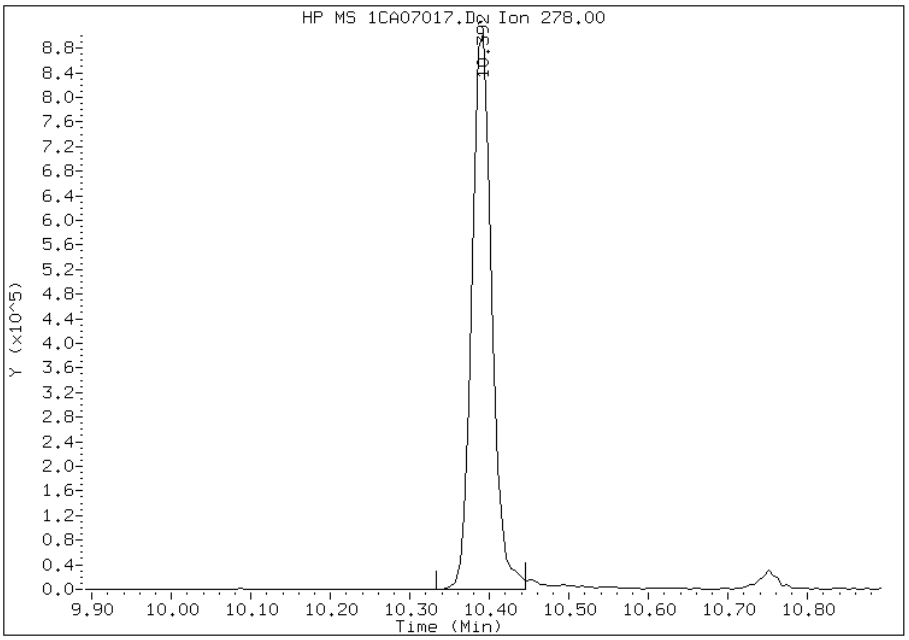
Processing Integration Results

RT: 10.39

Response: 1569221

Amount: 19

Conc: 19



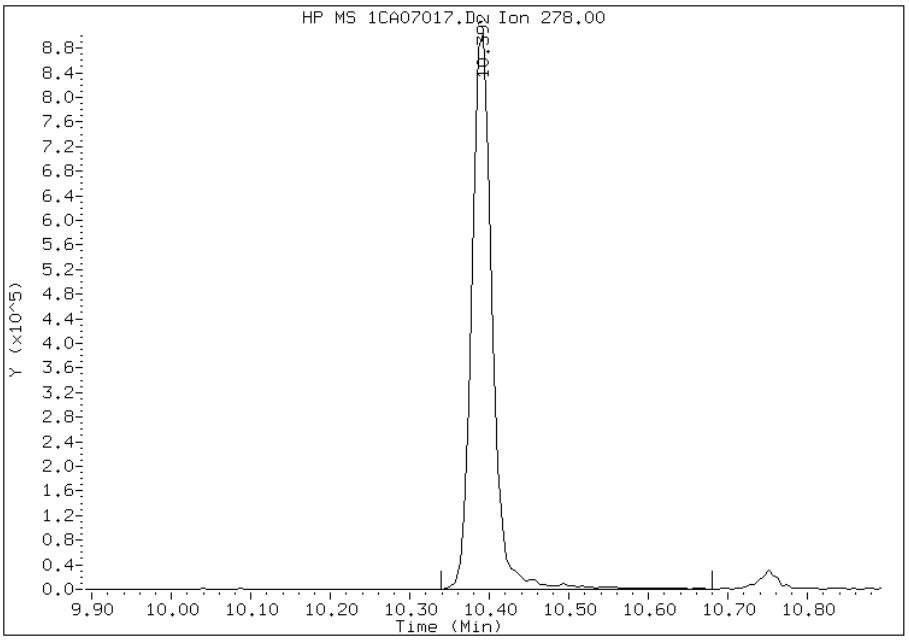
Manual Integration Results

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

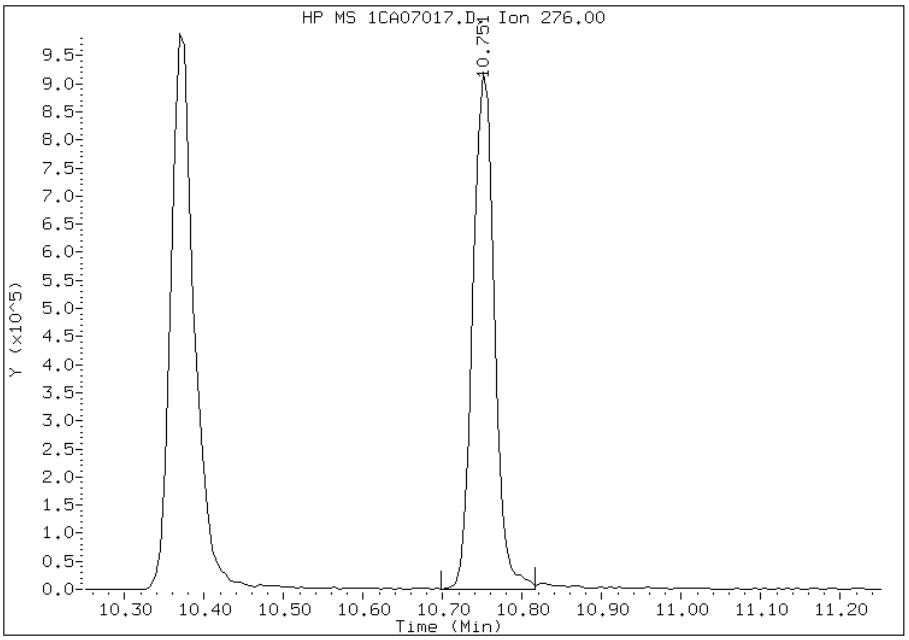
Processing Integration Results

RT: 10.75

Response: 1711397

Amount: 19

Conc: 19



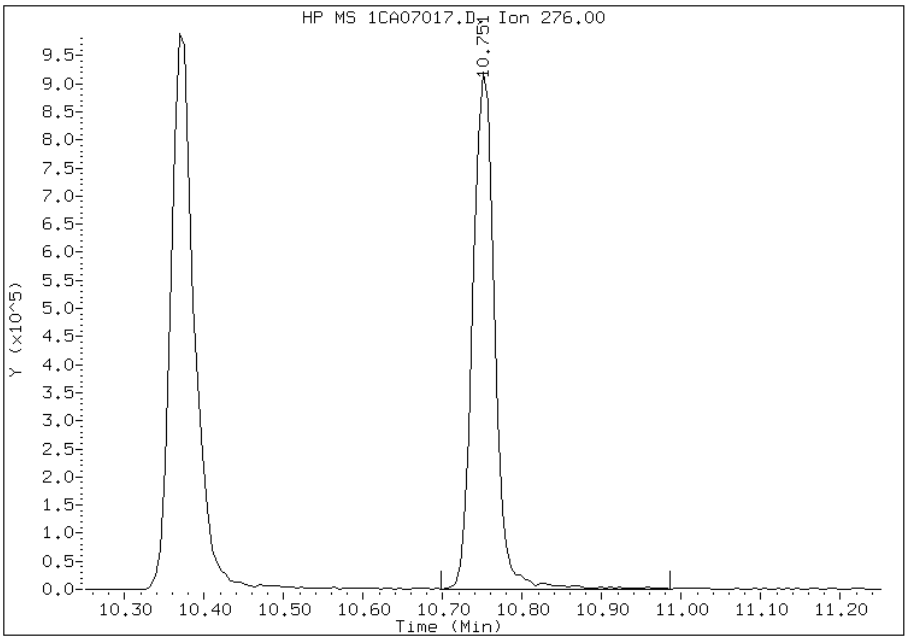
Manual Integration Results

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

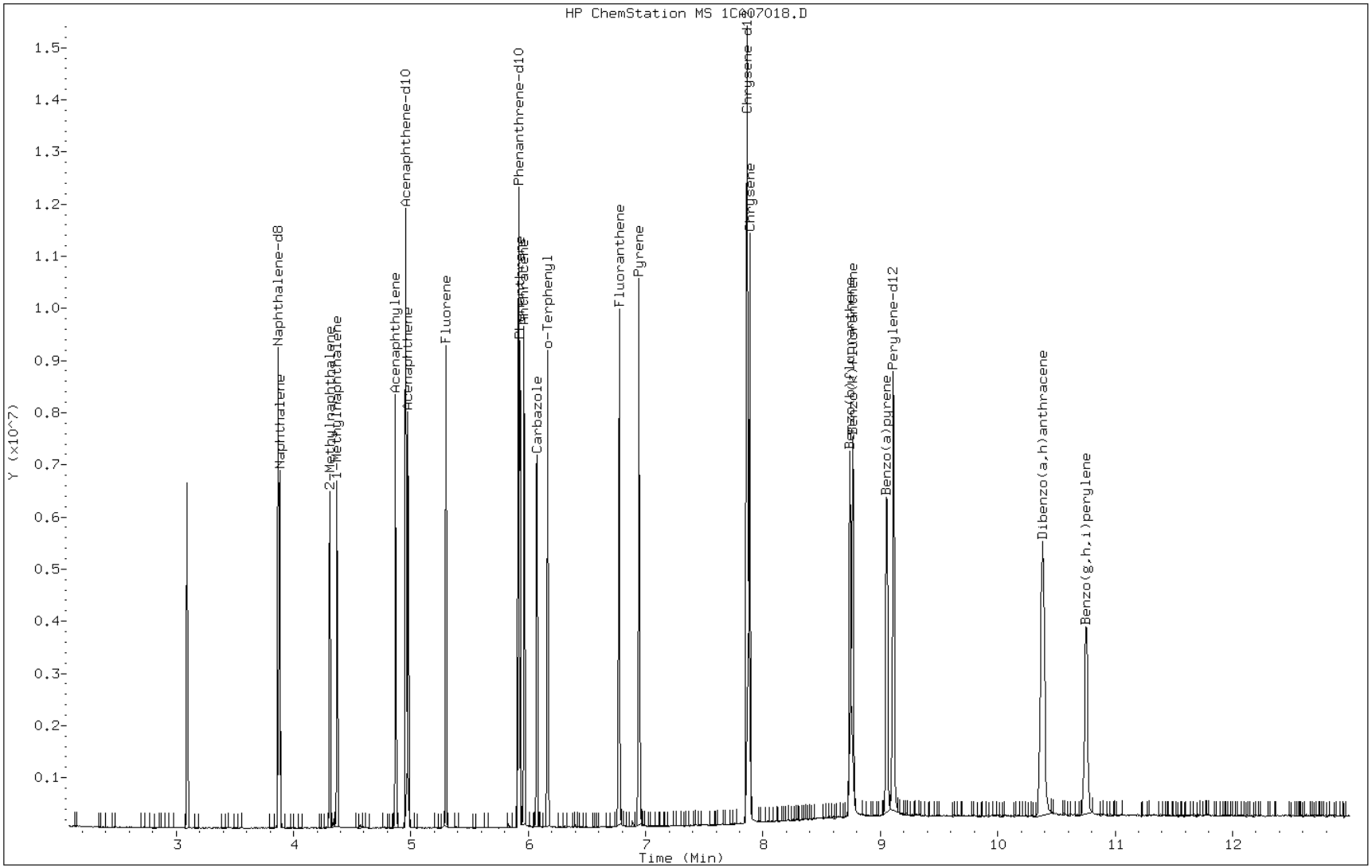
M - Compound response manually integrated.

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

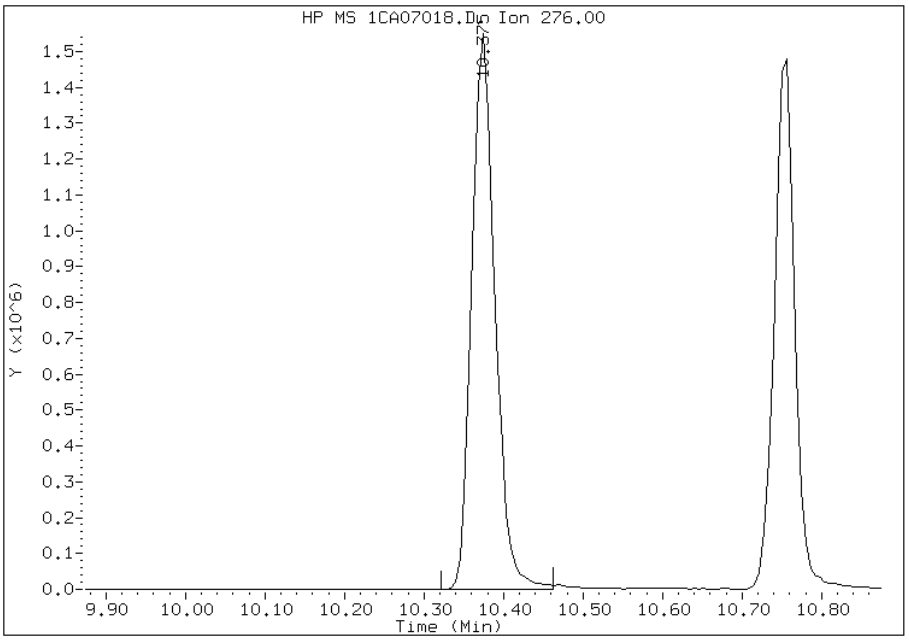
Processing Integration Results

RT: 10.37

Response: 3123860

Amount: 35

Conc: 35



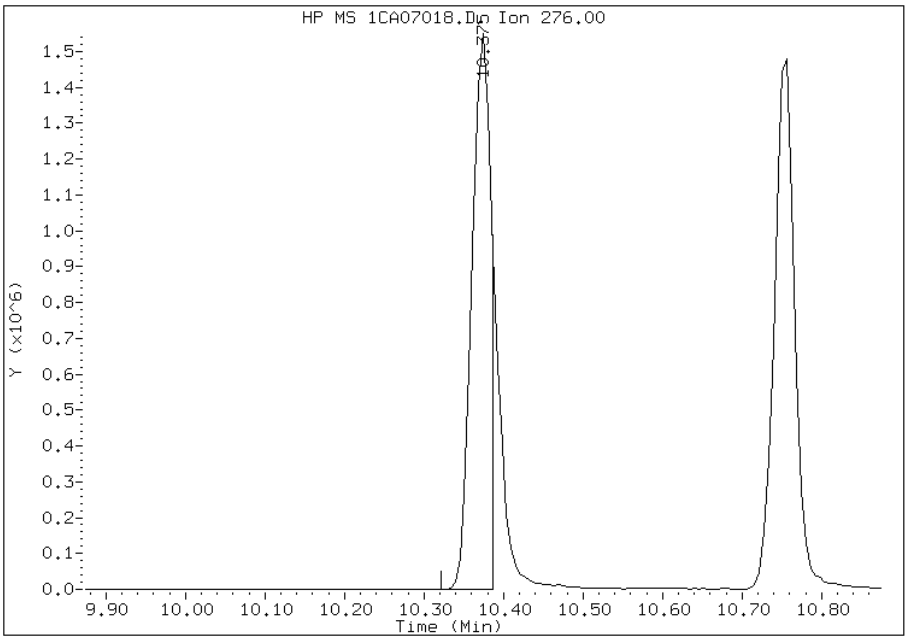
Manual Integration Results

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

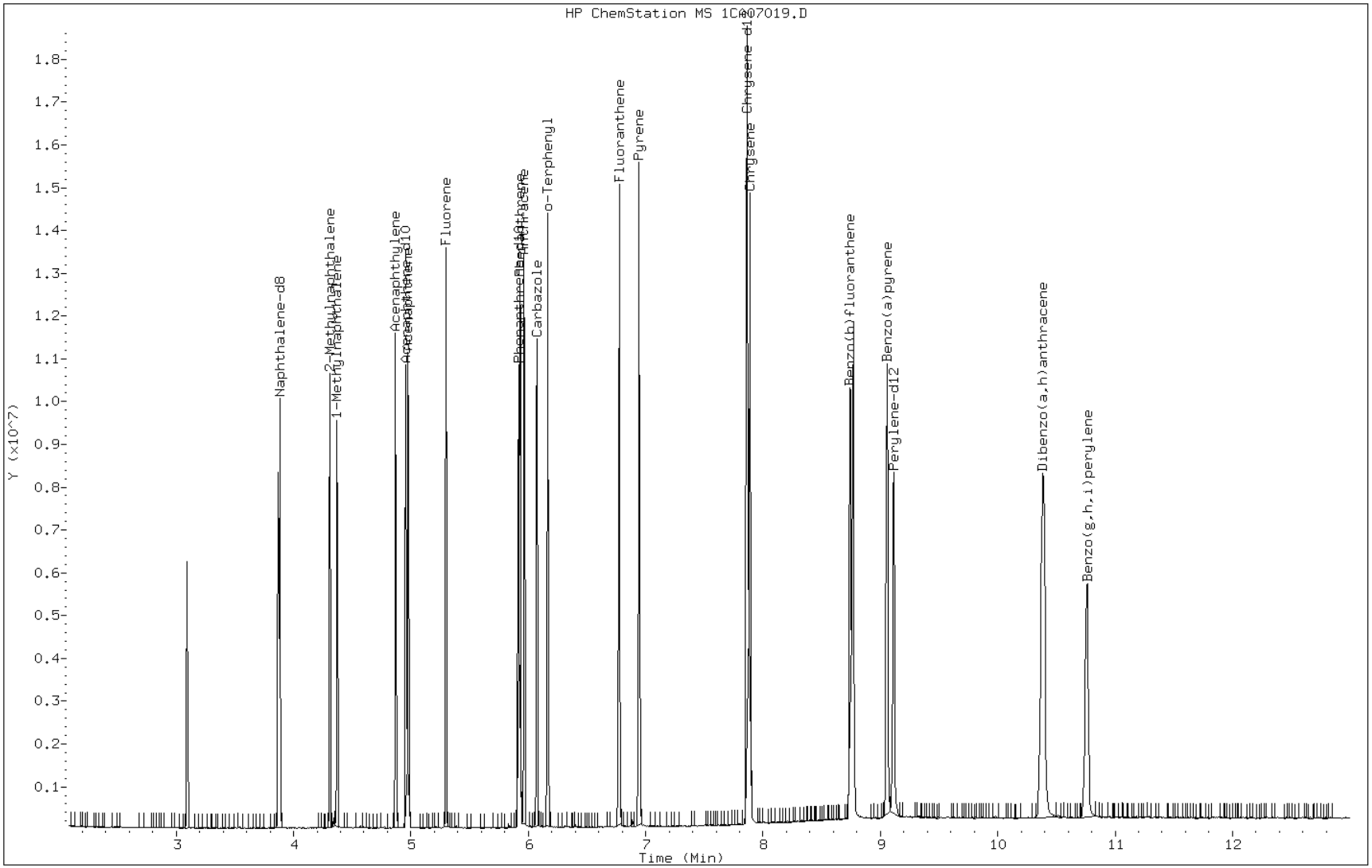
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

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

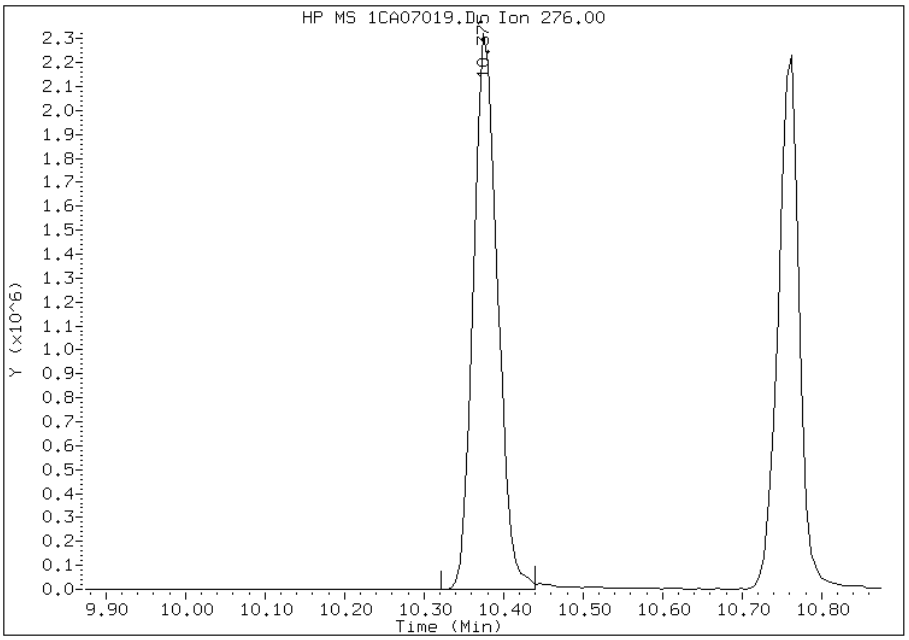
Processing Integration Results

RT: 10.37

Response: 4872897

Amount: 57

Conc: 57



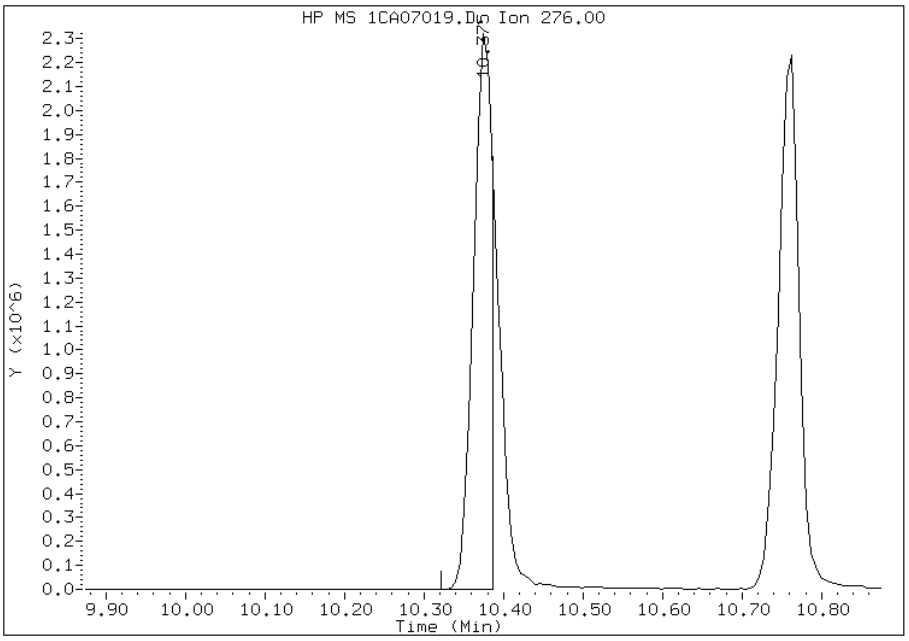
Manual Integration Results

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-3 Analy Batch No.: 133192

SDG No.: 68087496-3

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

Calibration Start Date: 01/07/2013 10:43 Calibration End Date: 01/07/2013 12:58 Calibration ID: 2662

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133192/3	1DA07003.D
Level 2	IC 660-133192/4	1DA07004.D
Level 3	IC 660-133192/5	1DA07005.D
Level 4	IC 660-133192/6	1DA07006.D
Level 5	ICIS 660-133192/7	1DA07007.D
Level 6	IC 660-133192/8	1DA07008.D
Level 7	IC 660-133192/9	1DA07009.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	1.0326 1.0487	1.0678 1.0487	1.0821	1.0889	1.0361	Ave		1.0578			0.0000	2.1		15.0			
2-Methylnaphthalene	0.6507 0.6723	0.6743 0.6652	0.6839	0.6894	0.6672	Ave		0.6719			0.0000	1.9		15.0			
1-Methylnaphthalene	0.5922 0.6298	0.6521 0.6251	0.6495	0.6532	0.6221	Ave		0.6320			0.0000	3.5		15.0			
Acenaphthylene	1.4804 1.7952	1.6906 1.7550	1.8019	1.8298	1.7360	Ave		1.7270			0.0000	6.8		15.0			
Acenaphthene	1.0357 1.0581	1.0434 1.0271	1.1019	1.0802	1.0264	Ave		1.0532			0.0000	2.7		15.0			
Fluorene	1.2423 1.2561	1.2505 1.2175	1.2820	1.2926	1.2191	Ave		1.2514			0.0000	2.3		15.0			
Phenanthrene	1.3083 1.1051	1.1627 1.0757	1.1236	1.1454	1.0787	Ave		1.1428			0.0000	7.0		15.0			
Anthracene	1.0767 1.1402	1.1175 1.0993	1.1342	1.1607	1.1089	Ave		1.1196			0.0000	2.5		15.0			
Carbazole	0.9237 1.0116	1.0027 0.9834	1.0152	1.0170	0.9880	Ave		0.9917			0.0000	3.3		15.0			
Fluoranthene	1.0832 1.1621	1.1408 1.1339	1.1751	1.1877	1.1299	Ave		1.1447			0.0000	3.0		15.0			
Pyrene	1.1694 1.2821	1.2494 1.2240	1.2825	1.2973	1.2376	Ave		1.2489			0.0000	3.5		15.0			
Benzo[a]anthracene	1.5148 1.0995	1.1799 1.0830	1.1158	1.1306	1.0667	Ave		1.1700			0.0000	13.4		15.0			
Chrysene	1.2051 1.1142	1.1588 1.0633	1.1473	1.1276	1.0756	Ave		1.1274			0.0000	4.3		15.0			
Benzo[b]fluoranthene	0.9652 1.0404	1.0099 1.0124	1.0606	1.0334	0.9860	Ave		1.0154			0.0000	3.2		15.0			

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

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

Lab Name: TestAmerica Tampa Job No.: 680-87496-3 Analy Batch No.: 133192

SDG No.: 68087496-3

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

Calibration Start Date: 01/07/2013 10:43 Calibration End Date: 01/07/2013 12:58 Calibration ID: 2662

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	1.0249 1.0958	1.0575 1.0509	1.0863	1.1227	1.0697	Ave		1.0725			0.0000	3.0		15.0			
Benzo[a]pyrene	0.8729 1.0490	0.9715 1.0292	1.0282	1.0490	1.0082	Ave		1.0011			0.0000	6.2		15.0			
Indeno[1,2,3-cd]pyrene	0.9744 1.1397	1.0159 1.1426	1.0734	1.0875	1.0465	Ave		1.0686			0.0000	5.8		15.0			
Dibenz(a,h)anthracene	0.9295 1.0207	0.9472 0.9996	0.9919	0.9980	0.9770	Ave		0.9805			0.0000	3.3		15.0			
Benzo[g,h,i]perylene	1.0069 1.0507	0.9976 1.0256	1.0284	1.0461	1.0014	Ave		1.0224			0.0000	2.1		15.0			
o-Terphenyl	0.5295 0.6025	0.6044 0.5837	0.6246	0.6250	0.5876	Ave		0.5939			0.0000	5.5		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tampa Job No.: 680-87496-3 Analy Batch No.: 133192

SDG No.: 68087496-3

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

Calibration Start Date: 01/07/2013 10:43 Calibration End Date: 01/07/2013 12:58 Calibration ID: 2662

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 660-133192/3	1DA07003.D
Level 2	IC 660-133192/4	1DA07004.D
Level 3	IC 660-133192/5	1DA07005.D
Level 4	IC 660-133192/6	1DA07006.D
Level 5	ICIS 660-133192/7	1DA07007.D
Level 6	IC 660-133192/8	1DA07008.D
Level 7	IC 660-133192/9	1DA07009.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	14081 2217525	75051 3455368	371110	761664	1499373	0.200 30.0	1.00 50.0	5.00	10.0	20.0
2-Methylnaphthalene	NPT	Ave	8874 1421632	47392 2191842	234541	482221	965566	0.200 30.0	1.00 50.0	5.00	10.0	20.0
1-Methylnaphthalene	NPT	Ave	8076 1331678	45830 2059513	222727	456888	900178	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthylene	ANT	Ave	11732 2195429	69657 3401253	359613	748390	1468866	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Acenaphthene	ANT	Ave	8208 1293933	42989 1990525	219909	441782	868428	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluorene	ANT	Ave	9845 1536111	51523 2359500	255855	528668	1031469	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Phenanthrene	PHN	Ave	16942 2200797	77587 3355969	370259	762869	1479086	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Anthracene	PHN	Ave	13943 2270785	74572 3429358	373778	773057	1520613	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Carbazole	PHN	Ave	11962 2014501	66912 3068003	334549	677386	1354823	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Fluoranthene	PHN	Ave	14028 2314400	76130 3537470	387235	791083	1549406	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Pyrene	CRY	Ave	14686 2464372	80943 3756325	410239	833624	1653183	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[a]anthracene	CRY	Ave	19024 2113434	76437 3323349	356902	726527	1424873	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Chrysene	CRY	Ave	15135 2141587	75076 3263100	367003	724549	1436719	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	12479 2058806	67382 3216419	350520	687579	1364545	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	13251 2168595	70561 3338707	359015	746955	1480475	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.: 680-87496-3 Analy Batch No.: 133192

SDG No.: 68087496-3

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

Calibration Start Date: 01/07/2013 10:43 Calibration End Date: 01/07/2013 12:58 Calibration ID: 2662

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	11286 2075812	64823 3269544	339811	697964	1395303	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	12598 2255455	67785 3629982	354752	723555	1448350	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	12018 2019856	63201 3175644	327817	663992	1352122	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	13019 2079330	66561 3258091	339874	696020	1385933	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	6857 1199919	40334 1821099	205836	416257	805710	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07003.D
Lab Smp Id: IC-1489894
Inj Date : 07-JAN-2013 10:43
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.237	6.237	(1.000)	2727403	40.0000	
* 6 Acenaphthene-d10	164	7.905	7.905	(1.000)	1584959	40.0000	
* 9 Phenanthrene-d10	188	9.168	9.168	(1.000)	2590020	40.0000	
$ 13 o-Terphenyl	230	9.474	9.474	(1.033)	6857	0.20000	0.18
* 17 Chrysene-d12	240	11.525	11.525	(1.000)	2511795	40.0000	
* 22 Perylene-d12	264	13.422	13.422	(1.000)	2585852	40.0000	
2 Naphthalene	128	6.254	6.254	(1.003)	14081	0.20000	0.20
3 2-Methylnaphthalene	142	6.959	6.959	(1.116)	8874	0.20000	0.19
4 1-Methylnaphthalene	142	7.047	7.047	(1.130)	8076	0.20000	0.19
5 Acenaphthylene	152	7.776	7.776	(0.984)	11732	0.20000	0.17
7 Acenaphthene	154	7.929	7.929	(1.003)	8208	0.20000	0.20
8 Fluorene	166	8.375	8.375	(1.059)	9845	0.20000	0.20
10 Phenanthrene	178	9.180	9.180	(1.001)	16942	0.20000	0.23
11 Anthracene	178	9.221	9.221	(1.006)	13943	0.20000	0.19
12 Carbazole	167	9.357	9.357	(1.021)	11962	0.20000	0.19
14 Fluoranthene	202	10.167	10.167	(1.109)	14028	0.20000	0.19
15 Pyrene	202	10.355	10.355	(0.899)	14686	0.20000	0.19
16 Benzo(a)anthracene	228	11.501	11.501	(0.998)	19024	0.20000	0.28
18 Chrysene	228	11.542	11.542	(1.002)	15135	0.20000	0.21
19 Benzo(b)fluoranthene	252	12.852	12.852	(0.958)	12479	0.20000	0.19
20 Benzo(k)fluoranthene	252	12.888	12.888	(0.960)	13251	0.20000	0.19(MH)
21 Benzo(a)pyrene	252	13.317	13.317	(0.992)	11286	0.20000	0.17
23 Indeno(1,2,3-cd)pyrene	276	15.050	15.050	(1.121)	12598	0.20000	0.18(M)
24 Dibenzo(a,h)anthracene	278	15.085	15.085	(1.124)	12018	0.20000	0.19(MH)
25 Benzo(g,h,i)perylene	276	15.514	15.514	(1.156)	13019	0.20000	0.20(MH)

QC Flag Legend

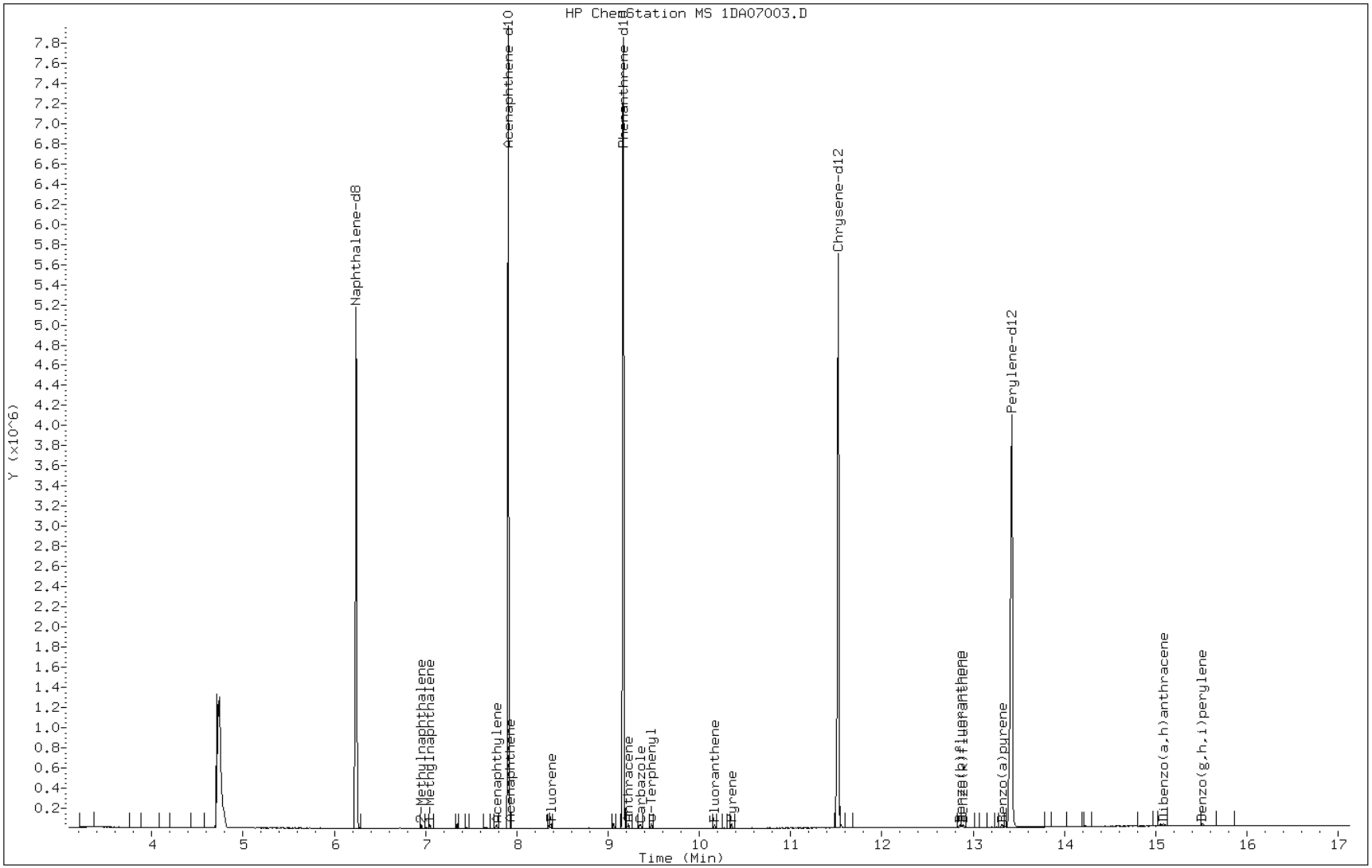
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07003.D

Date: 07-JAN-2013 10:43

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1DA07003.D
Inj. Date and Time: 07-JAN-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 20 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/07/2013

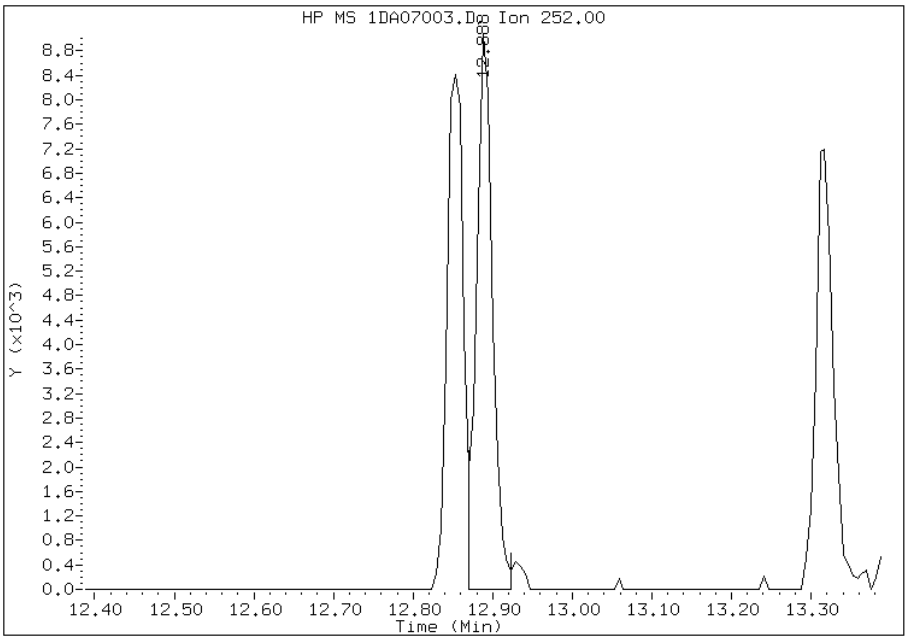
Processing Integration Results

RT: 12.89

Response: 12828

Amount: 0

Conc: 0



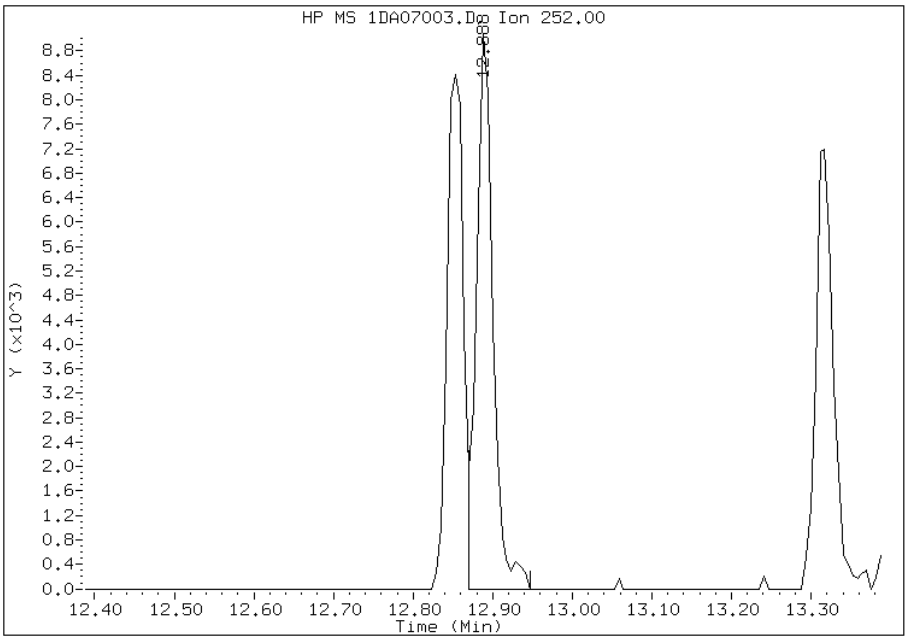
Manual Integration Results

RT: 12.89

Response: 13251

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DA07003.D
Inj. Date and Time: 07-JAN-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

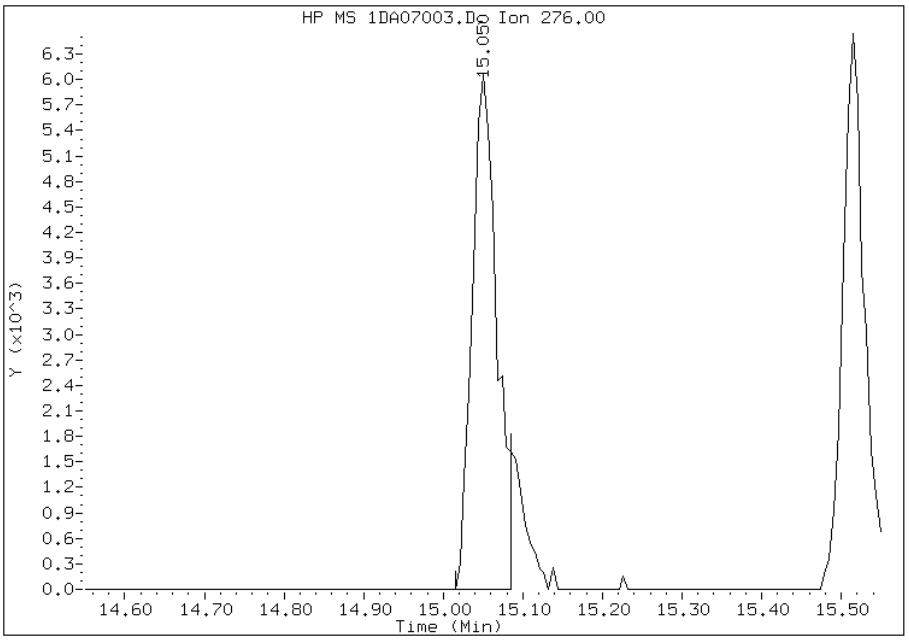
Processing Integration Results

RT: 15.05

Response: 13170

Amount: 0

Conc: 0



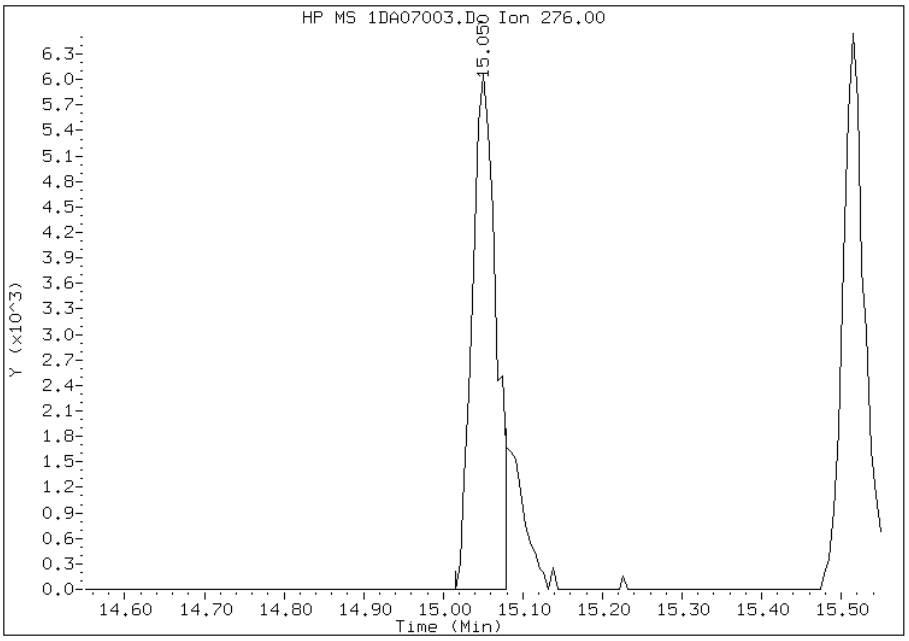
Manual Integration Results

RT: 15.05

Response: 12598

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:44
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DA07003.D
Inj. Date and Time: 07-JAN-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/07/2013

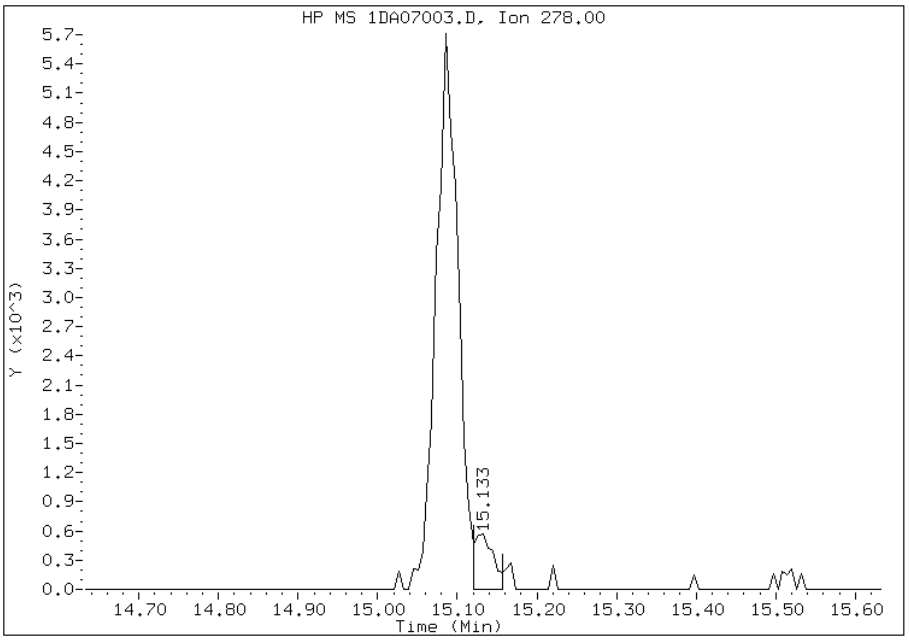
Processing Integration Results

RT: 15.13

Response: 977

Amount: 0

Conc: 0



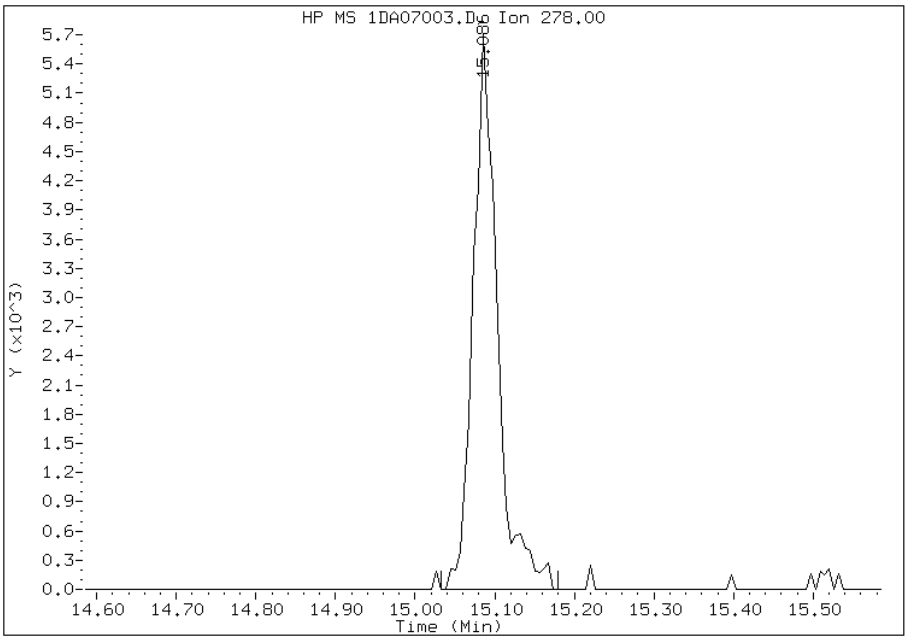
Manual Integration Results

RT: 15.09

Response: 12018

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:43
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DA07003.D
Inj. Date and Time: 07-JAN-2013 10:43
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/07/2013

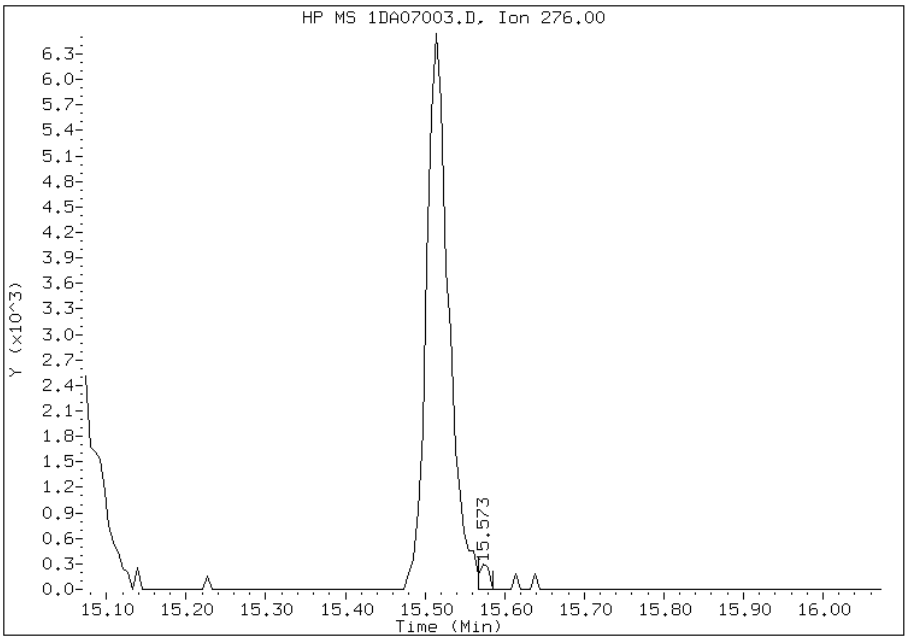
Processing Integration Results

RT: 15.57

Response: 258

Amount: 0

Conc: 0



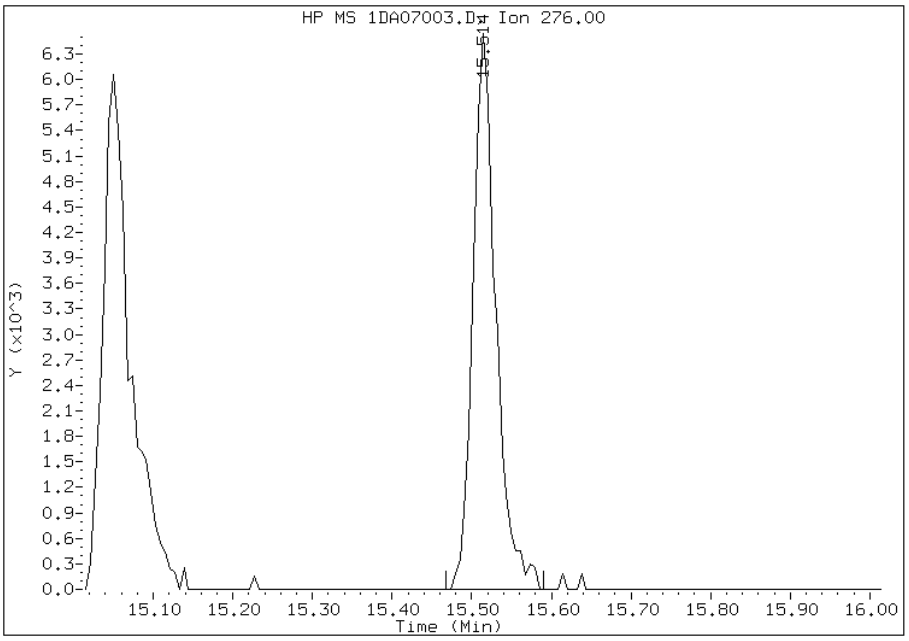
Manual Integration Results

RT: 15.51

Response: 13019

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:43
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07004.D
Lab Smp Id: IC-1489895
Inj Date : 07-JAN-2013 11:05
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 10:43 Cal File: 1DA07003.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.233	6.233	(1.000)	2811351	40.0000	
* 6 Acenaphthene-d10	164	7.901	7.901	(1.000)	1648080	40.0000	
* 9 Phenanthrene-d10	188	9.164	9.164	(1.000)	2669257	40.0000	
$ 13 o-Terphenyl	230	9.470	9.470	(1.033)	40334	1.00000	1.0
* 17 Chrysene-d12	240	11.520	11.520	(1.000)	2591399	40.0000	
* 22 Perylene-d12	264	13.418	13.418	(1.000)	2668926	40.0000	
2 Naphthalene	128	6.256	6.256	(1.004)	75051	1.00000	1.0
3 2-Methylnaphthalene	142	6.949	6.949	(1.115)	47392	1.00000	1.0
4 1-Methylnaphthalene	142	7.043	7.043	(1.130)	45830	1.00000	1.0
5 Acenaphthylene	152	7.772	7.772	(0.984)	69657	1.00000	0.98
7 Acenaphthene	154	7.925	7.925	(1.003)	42989	1.00000	0.99
8 Fluorene	166	8.371	8.371	(1.059)	51523	1.00000	1.00
10 Phenanthrene	178	9.176	9.176	(1.001)	77587	1.00000	1.0
11 Anthracene	178	9.217	9.217	(1.006)	74572	1.00000	1.00
12 Carbazole	167	9.352	9.352	(1.021)	66912	1.00000	1.0
14 Fluoranthene	202	10.163	10.163	(1.109)	76130	1.00000	1.00
15 Pyrene	202	10.351	10.351	(0.899)	80943	1.00000	1.0
16 Benzo(a)anthracene	228	11.497	11.497	(0.998)	76437	1.00000	1.1
18 Chrysene	228	11.538	11.538	(1.002)	75076	1.00000	1.0
19 Benzo(b)fluoranthene	252	12.848	12.848	(0.958)	67382	1.00000	0.99
20 Benzo(k)fluoranthene	252	12.884	12.884	(0.960)	70561	1.00000	0.98
21 Benzo(a)pyrene	252	13.312	13.312	(0.992)	64823	1.00000	0.97
23 Indeno(1,2,3-cd)pyrene	276	15.046	15.046	(1.121)	67785	1.00000	0.95(M)
24 Dibenzo(a,h)anthracene	278	15.081	15.081	(1.124)	63201	1.00000	0.97(MH)
25 Benzo(g,h,i)perylene	276	15.504	15.504	(1.155)	66561	1.00000	0.98(MH)

QC Flag Legend

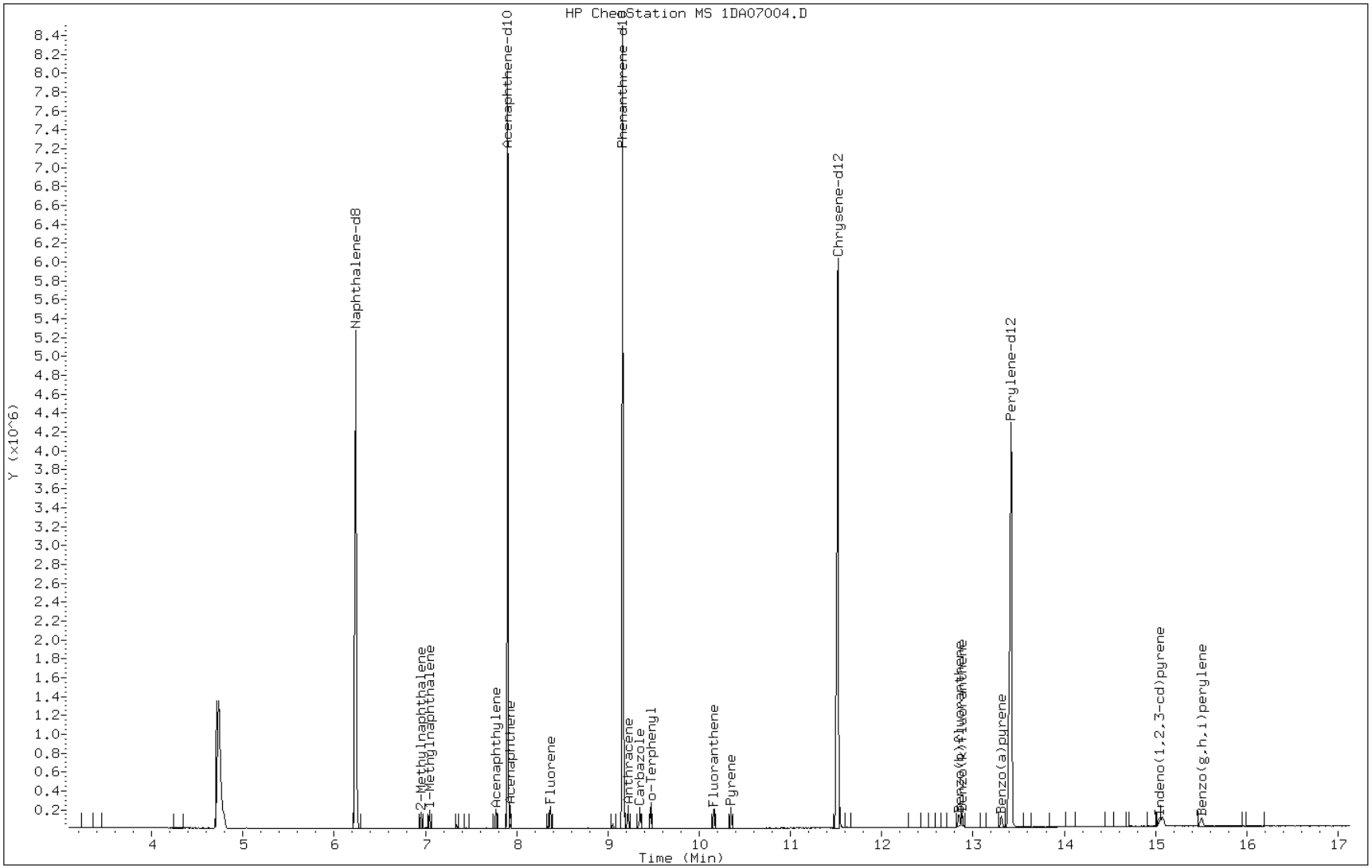
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07004.D

Date: 07-JAN-2013 11:05

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1DA07004.D
Inj. Date and Time: 07-JAN-2013 11:05
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

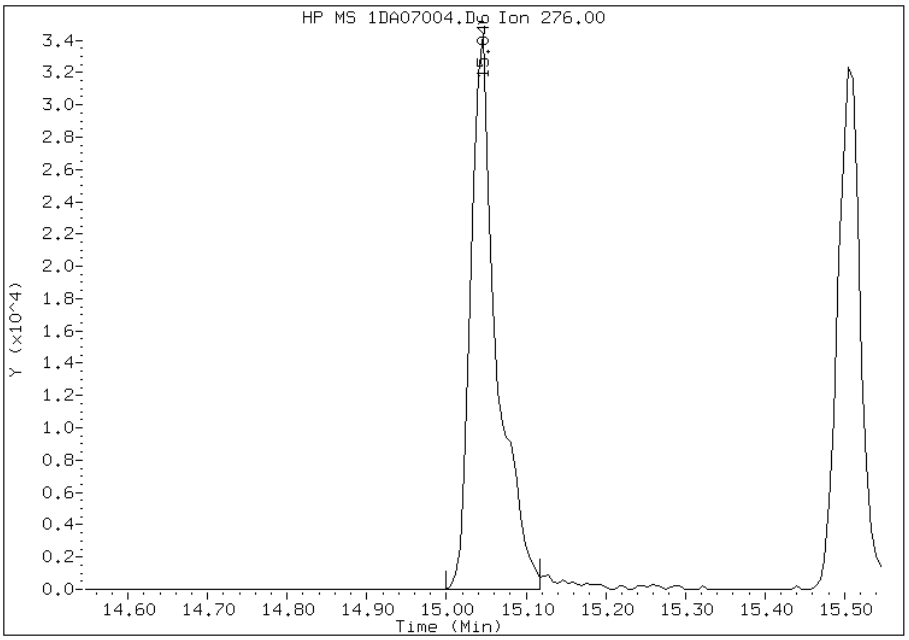
Processing Integration Results

RT: 15.05

Response: 77538

Amount: 1

Conc: 1



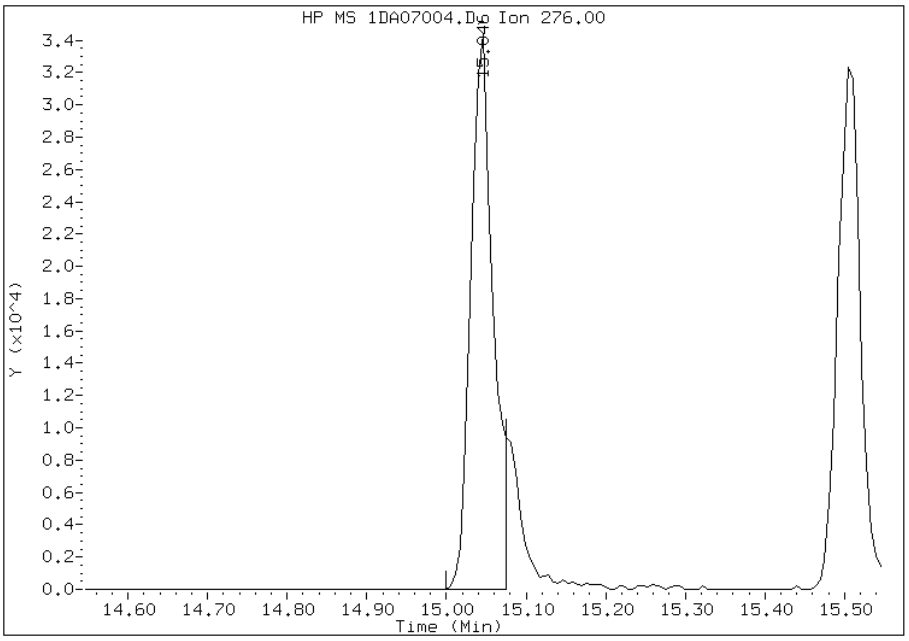
Manual Integration Results

RT: 15.05

Response: 67785

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:45
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DA07004.D
Inj. Date and Time: 07-JAN-2013 11:05
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/07/2013

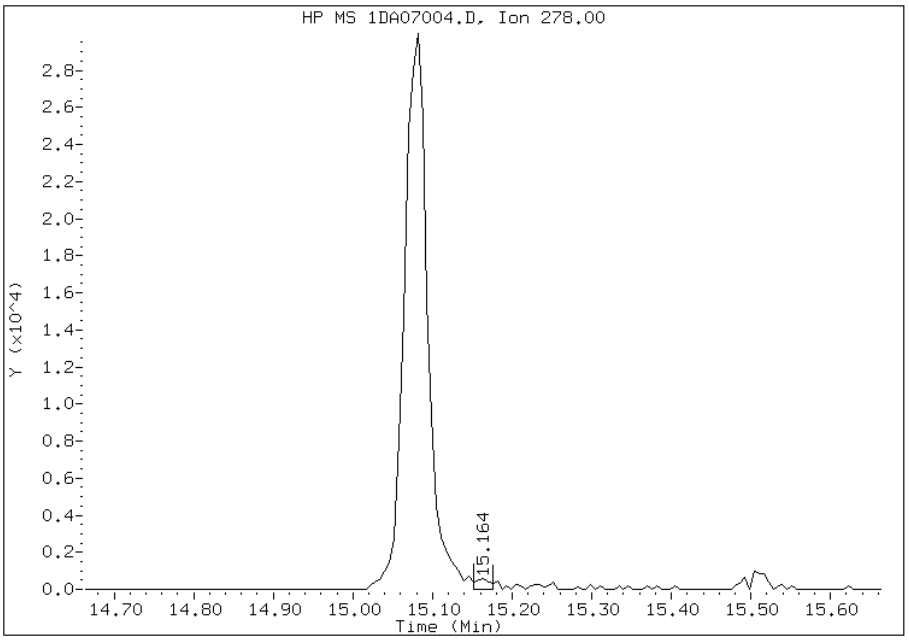
Processing Integration Results

RT: 15.16

Response: 770

Amount: 0

Conc: 0



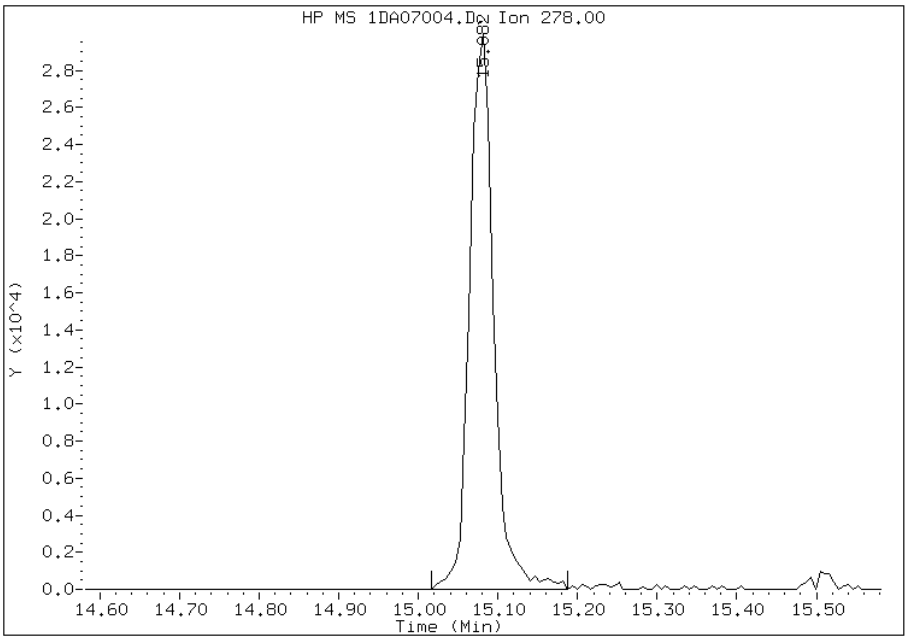
Manual Integration Results

RT: 15.08

Response: 63201

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:45
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DA07004.D
Inj. Date and Time: 07-JAN-2013 11:05
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/07/2013

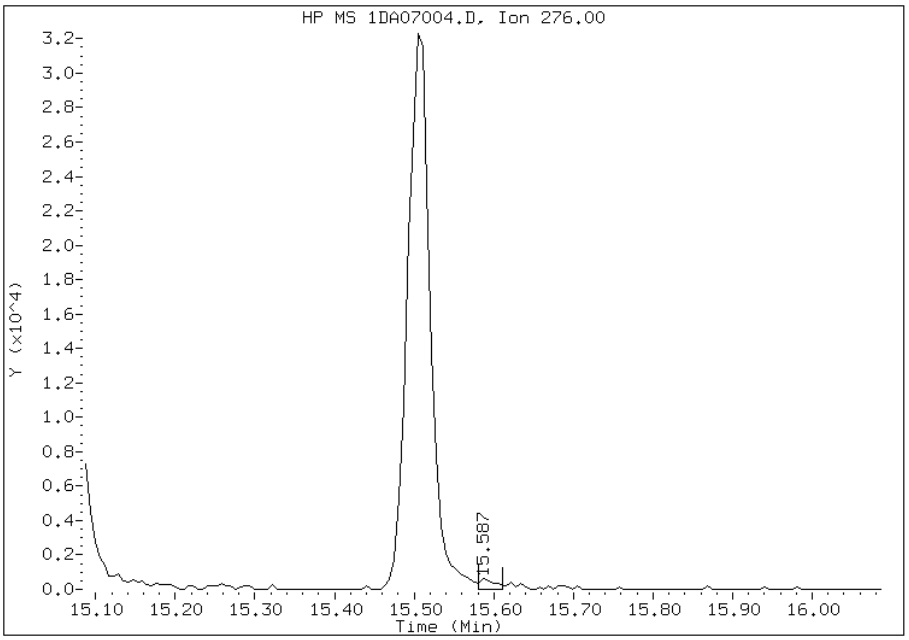
Processing Integration Results

RT: 15.59

Response: 827

Amount: 0

Conc: 0



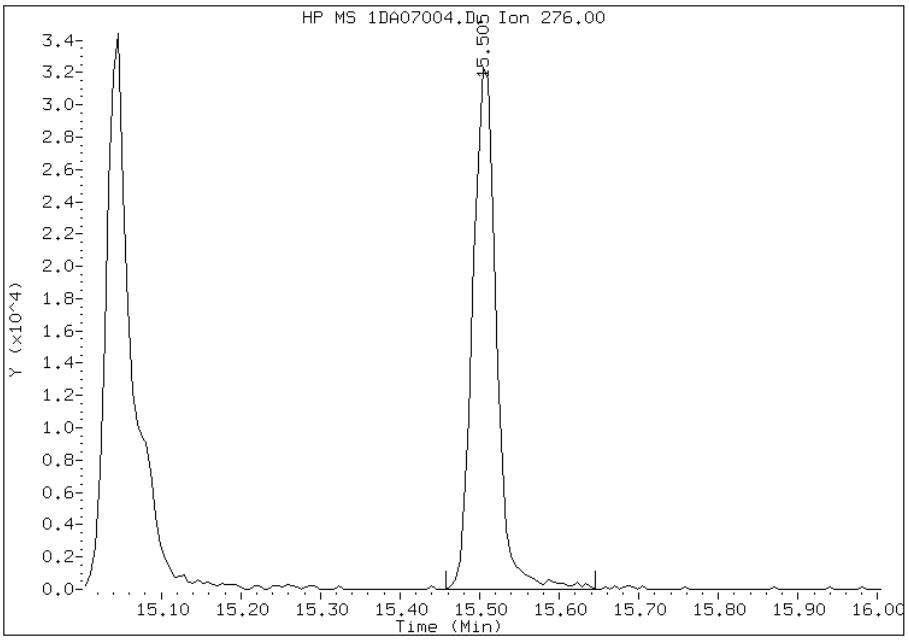
Manual Integration Results

RT: 15.50

Response: 66561

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:45
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07005.D
Lab Smp Id: IC-1489896
Inj Date : 07-JAN-2013 11:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 11:05 Cal File: 1DA07004.D
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.234	6.234	(1.000)	2743564	40.0000	
* 6 Acenaphthene-d10	164	7.903	7.903	(1.000)	1596605	40.0000	
* 9 Phenanthrene-d10	188	9.160	9.160	(1.000)	2636310	40.0000	
$ 13 o-Terphenyl	230	9.466	9.466	(1.033)	205836	5.00000	5.2
* 17 Chrysene-d12	240	11.516	11.516	(1.000)	2558962	40.0000	
* 22 Perylene-d12	264	13.420	13.420	(1.000)	2644008	40.0000	
2 Naphthalene	128	6.252	6.252	(1.003)	371110	5.00000	5.1
3 2-Methylnaphthalene	142	6.951	6.951	(1.115)	234541	5.00000	5.1
4 1-Methylnaphthalene	142	7.045	7.045	(1.130)	222727	5.00000	5.1
5 Acenaphthylene	152	7.774	7.774	(0.984)	359613	5.00000	5.2
7 Acenaphthene	154	7.926	7.926	(1.003)	219909	5.00000	5.2
8 Fluorene	166	8.367	8.367	(1.059)	255855	5.00000	5.1
10 Phenanthrene	178	9.178	9.178	(1.002)	370259	5.00000	4.9
11 Anthracene	178	9.219	9.219	(1.006)	373778	5.00000	5.1
12 Carbazole	167	9.354	9.354	(1.021)	334549	5.00000	5.1
14 Fluoranthene	202	10.159	10.159	(1.109)	387235	5.00000	5.1
15 Pyrene	202	10.353	10.353	(0.899)	410239	5.00000	5.1
16 Benzo(a)anthracene	228	11.499	11.499	(0.998)	356902	5.00000	5.1
18 Chrysene	228	11.540	11.540	(1.002)	367003	5.00000	5.1
19 Benzo(b)fluoranthene	252	12.844	12.844	(0.957)	350520	5.00000	5.2
20 Benzo(k)fluoranthene	252	12.885	12.885	(0.960)	359015	5.00000	5.1
21 Benzo(a)pyrene	252	13.314	13.314	(0.992)	339811	5.00000	5.1
23 Indeno(1,2,3-cd)pyrene	276	15.047	15.047	(1.121)	354752	5.00000	5.0(M)
24 Dibenzo(a,h)anthracene	278	15.083	15.083	(1.124)	327817	5.00000	5.0(MH)
25 Benzo(g,h,i)perylene	276	15.512	15.512	(1.156)	339874	5.00000	5.0(MH)

QC Flag Legend

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

Data File: 1DA07005.D

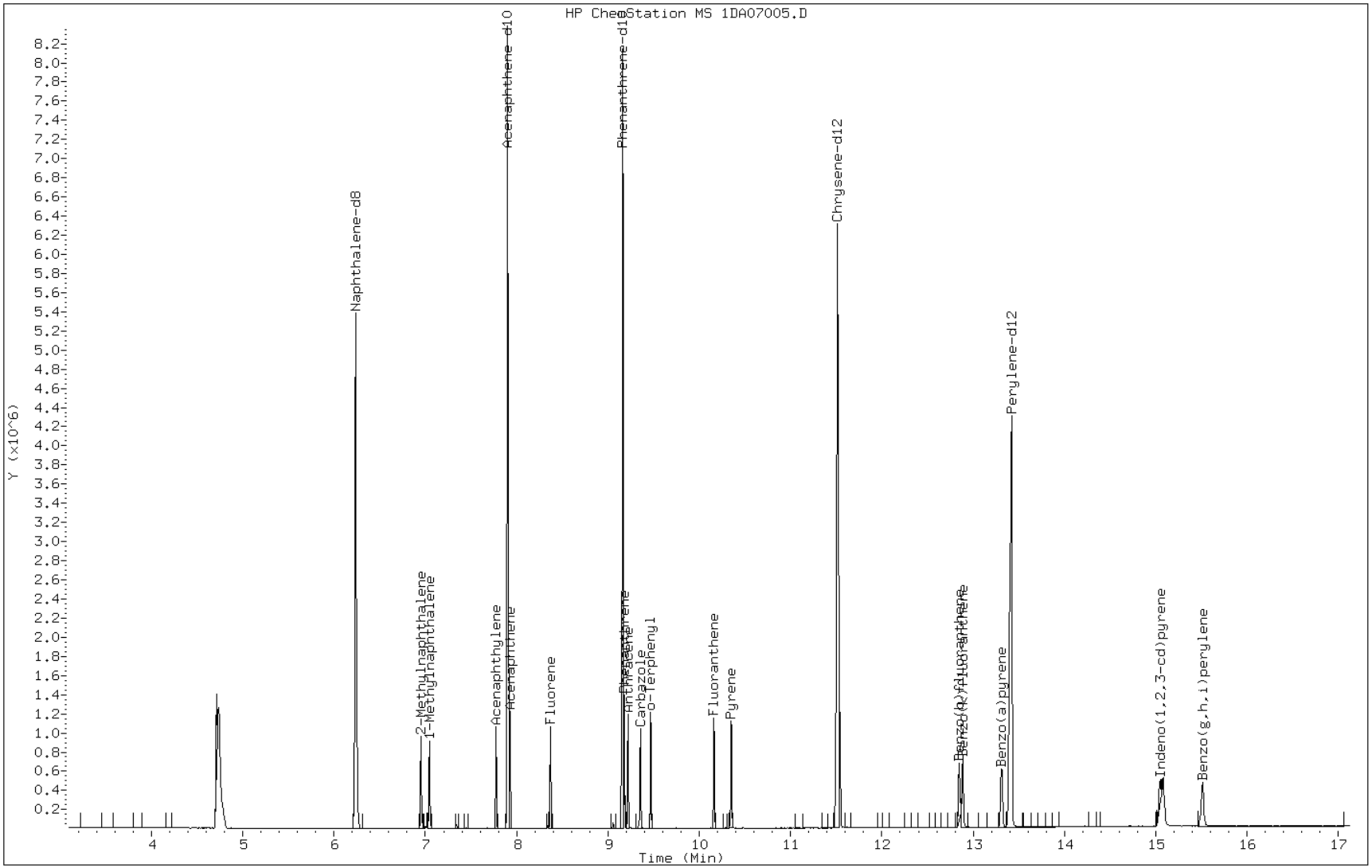
Date: 07-JAN-2013 11:28

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1489896

Operator: SCC



Manual Integration Report

Data File: 1DA07005.D
Inj. Date and Time: 07-JAN-2013 11:28
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

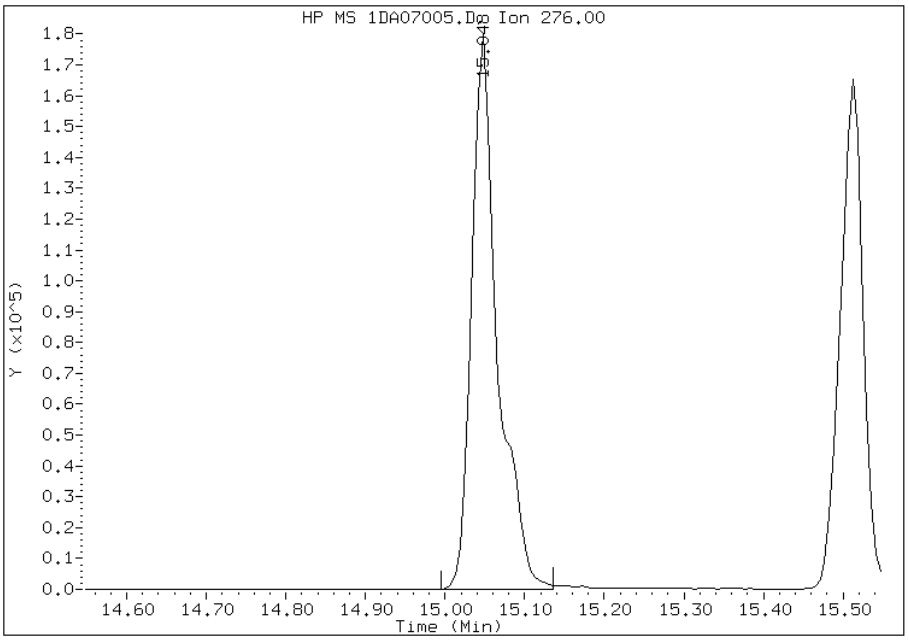
Processing Integration Results

RT: 15.05

Response: 403139

Amount: 6

Conc: 6



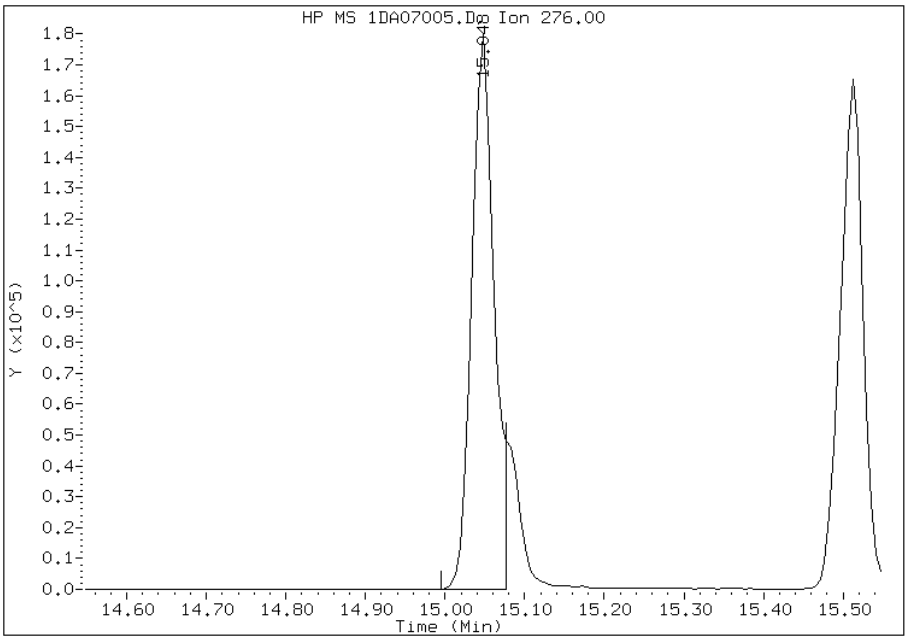
Manual Integration Results

RT: 15.05

Response: 354752

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:46
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1DA07005.D
Inj. Date and Time: 07-JAN-2013 11:28
Instrument ID: BSMSD.i
Client ID:
Compound: 24 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/07/2013

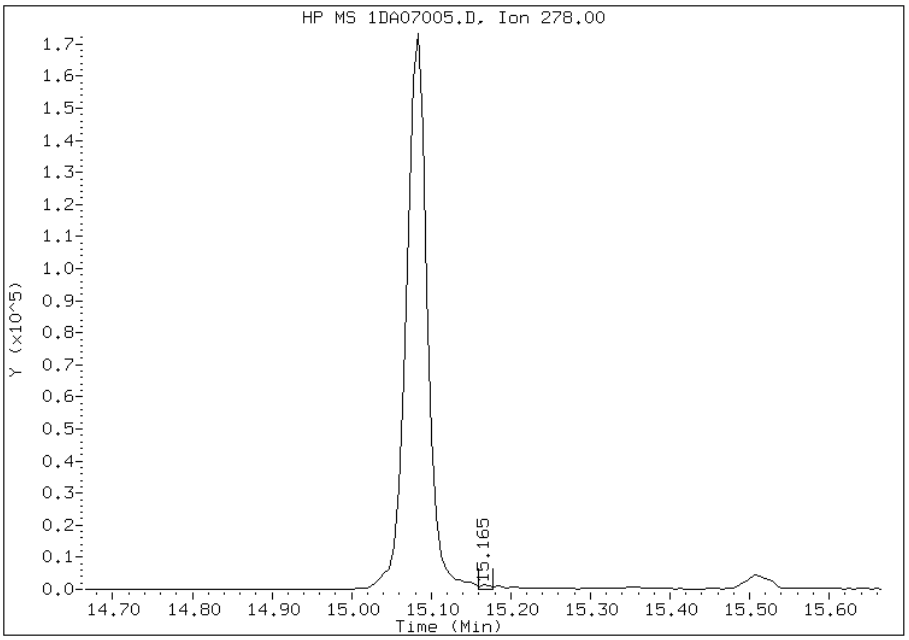
Processing Integration Results

RT: 15.17

Response: 1440

Amount: 0

Conc: 0



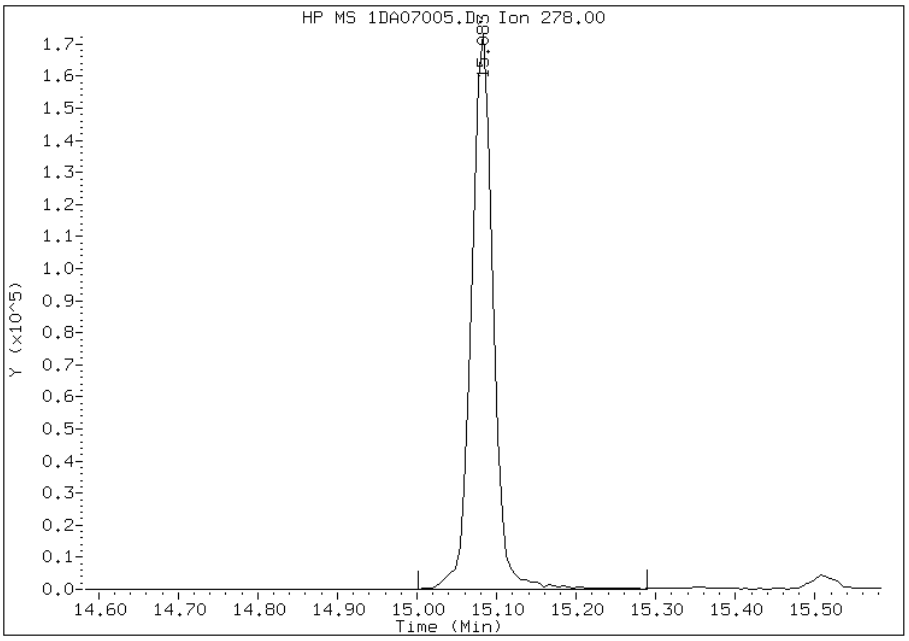
Manual Integration Results

RT: 15.08

Response: 327817

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:47
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1DA07005.D
Inj. Date and Time: 07-JAN-2013 11:28
Instrument ID: BSMSD.i
Client ID:
Compound: 25 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/07/2013

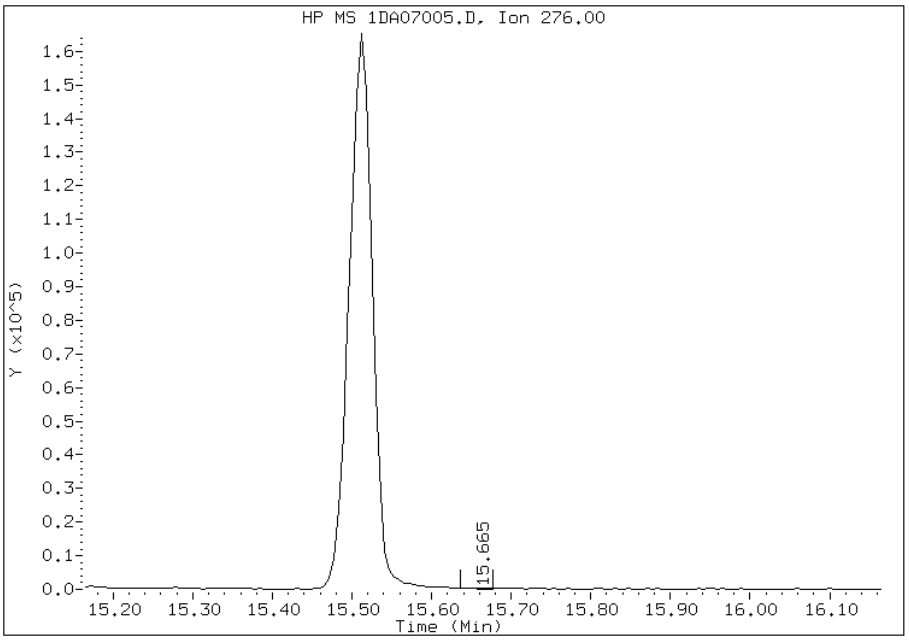
Processing Integration Results

RT: 15.66

Response: 744

Amount: 0

Conc: 0



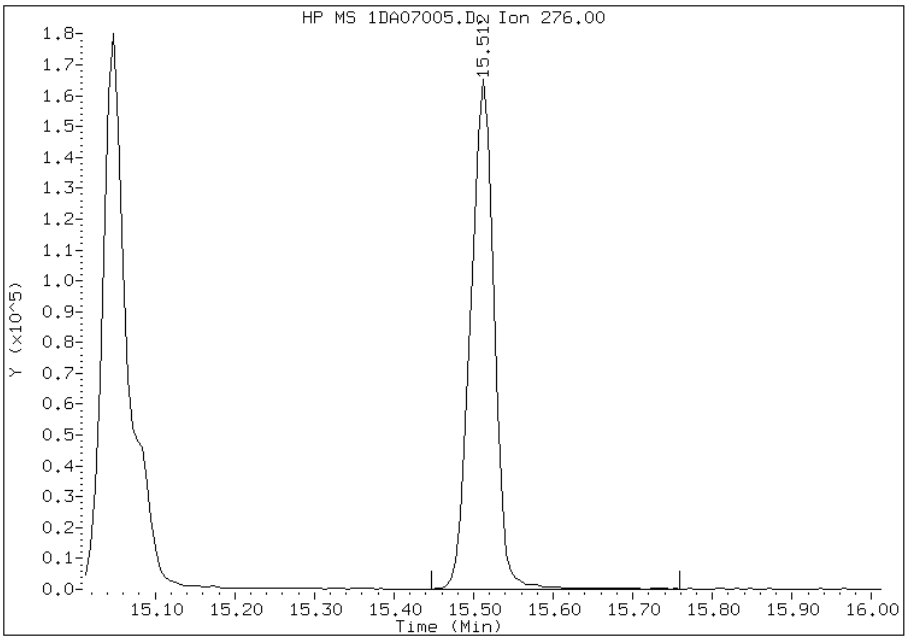
Manual Integration Results

RT: 15.51

Response: 339874

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:46
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07006.D
Lab Smp Id: IC-1489897
Inj Date : 07-JAN-2013 11:50
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 11:28 Cal File: 1DA07005.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.233	6.233	(1.000)	2797975	40.0000	
* 6 Acenaphthene-d10	164	7.902	7.902	(1.000)	1635976	40.0000	
* 9 Phenanthrene-d10	188	9.165	9.165	(1.000)	2664171	40.0000	
$ 13 o-Terphenyl	230	9.471	9.471	(1.033)	416257	10.0000	10
* 17 Chrysene-d12	240	11.521	11.521	(1.000)	2570331	40.0000	
* 22 Perylene-d12	264	13.419	13.419	(1.000)	2661356	40.0000	
2 Naphthalene	128	6.257	6.257	(1.004)	761664	10.0000	10
3 2-Methylnaphthalene	142	6.950	6.950	(1.115)	482221	10.0000	10
4 1-Methylnaphthalene	142	7.044	7.044	(1.130)	456888	10.0000	10
5 Acenaphthylene	152	7.773	7.773	(0.984)	748390	10.0000	10
7 Acenaphthene	154	7.925	7.925	(1.003)	441782	10.0000	10
8 Fluorene	166	8.372	8.372	(1.059)	528668	10.0000	10
10 Phenanthrene	178	9.183	9.183	(1.002)	762869	10.0000	10
11 Anthracene	178	9.218	9.218	(1.006)	773057	10.0000	10
12 Carbazole	167	9.353	9.353	(1.021)	677386	10.0000	10
14 Fluoranthene	202	10.164	10.164	(1.109)	791083	10.0000	10
15 Pyrene	202	10.352	10.352	(0.899)	833624	10.0000	10
16 Benzo(a)anthracene	228	11.498	11.498	(0.998)	726527	10.0000	10
18 Chrysene	228	11.545	11.545	(1.002)	724549	10.0000	10
19 Benzo(b)fluoranthene	252	12.855	12.855	(0.958)	687579	10.0000	10
20 Benzo(k)fluoranthene	252	12.890	12.890	(0.961)	746955	10.0000	10
21 Benzo(a)pyrene	252	13.313	13.313	(0.992)	697964	10.0000	10
23 Indeno(1,2,3-cd)pyrene	276	15.052	15.052	(1.122)	723555	10.0000	10(M)
24 Dibenzo(a,h)anthracene	278	15.087	15.087	(1.124)	663992	10.0000	10(H)
25 Benzo(g,h,i)perylene	276	15.522	15.522	(1.157)	696020	10.0000	10(H)

QC Flag Legend

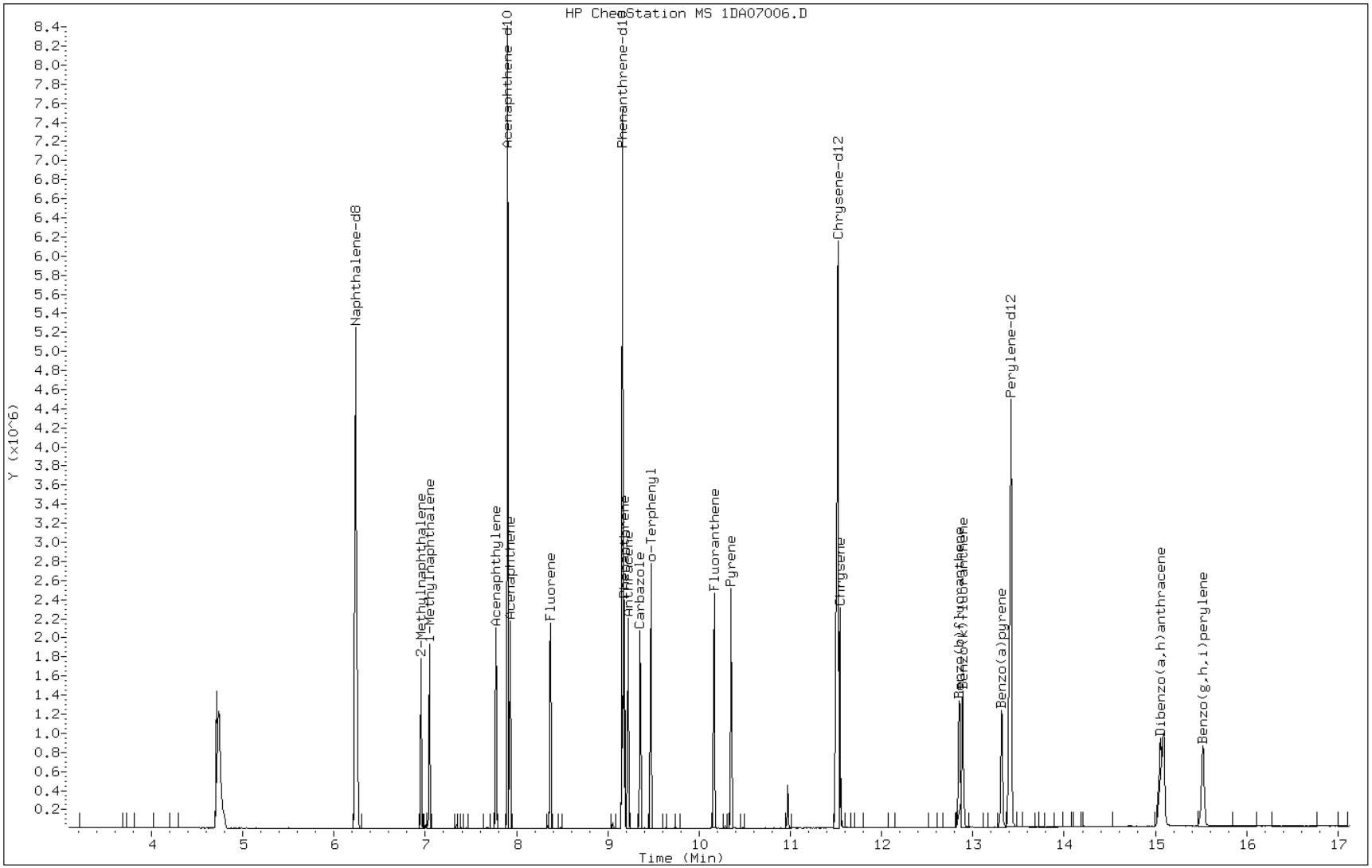
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07006.D

Date: 07-JAN-2013 11:50

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1DA07006.D
Inj. Date and Time: 07-JAN-2013 11:50
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

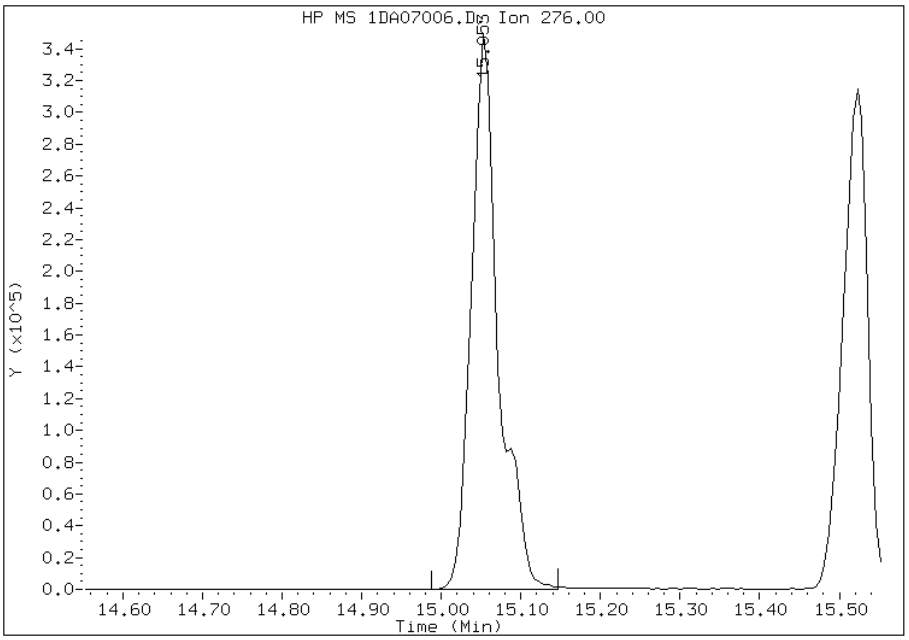
Processing Integration Results

RT: 15.05

Response: 822773

Amount: 11

Conc: 11



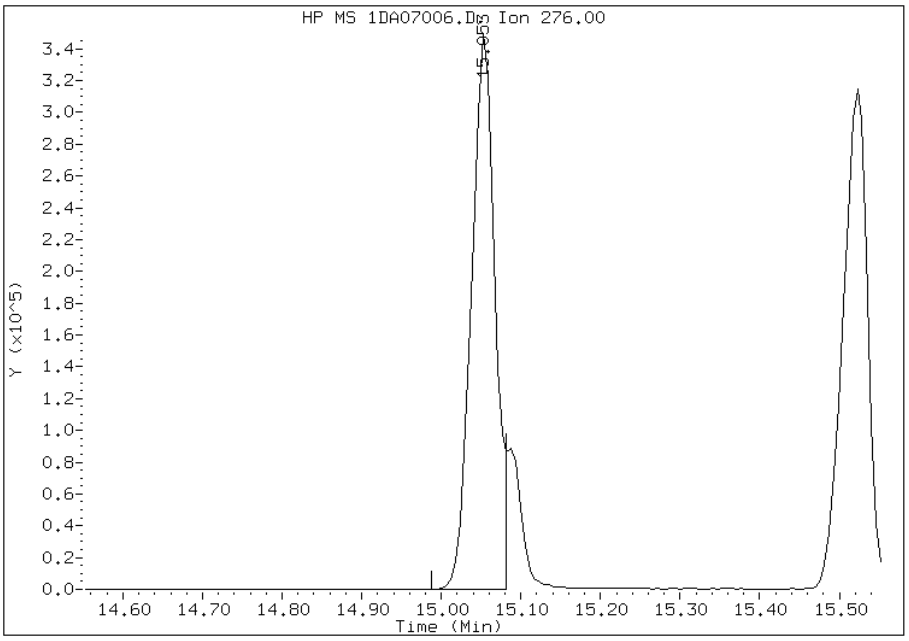
Manual Integration Results

RT: 15.05

Response: 723555

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:47
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07007.D
Lab Smp Id: ICIS-1489898
Inj Date : 07-JAN-2013 12:13
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 11:50 Cal File: 1DA07006.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

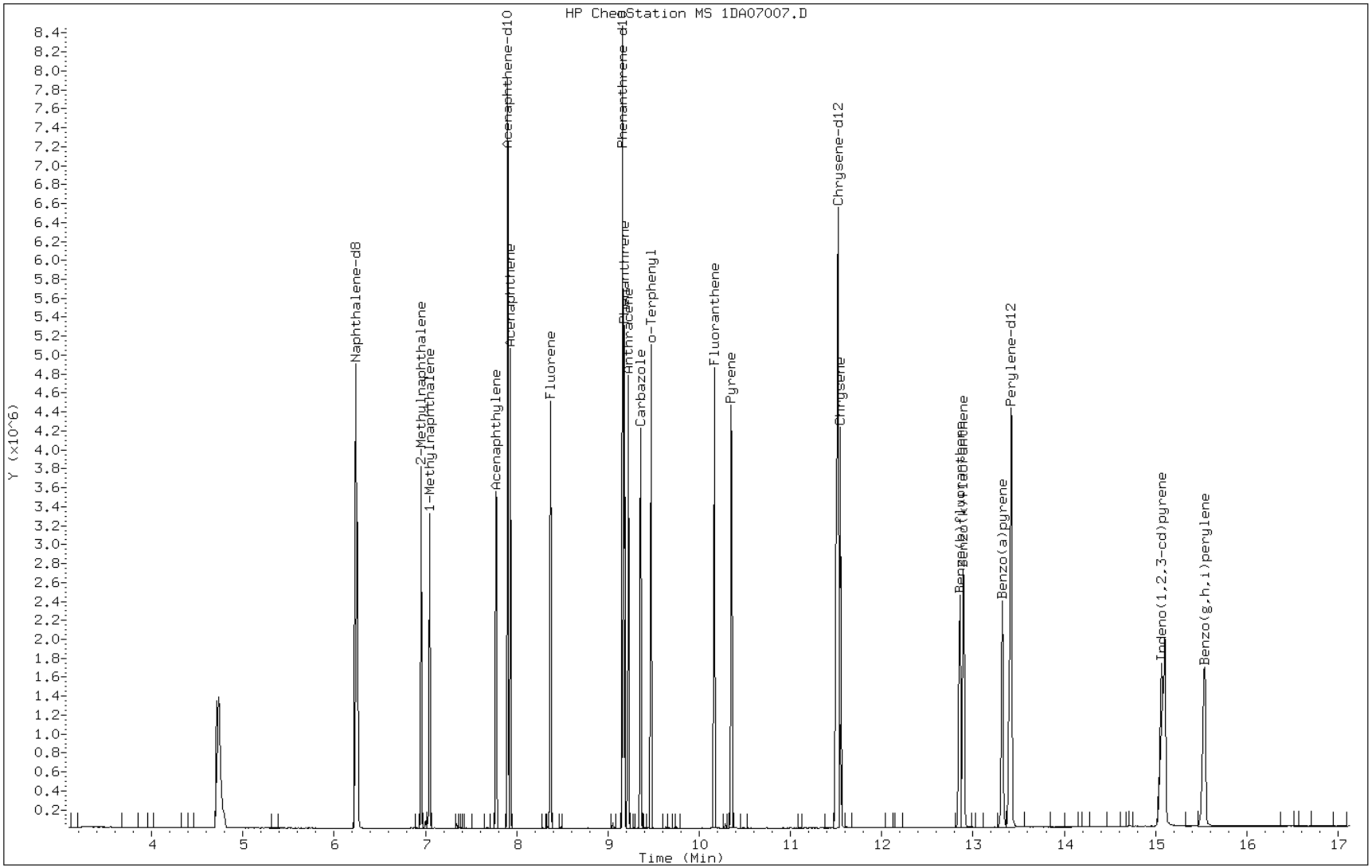
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.232	6.232	(1.000)	2894220	40.0000	
* 6 Acenaphthene-d10	164	7.901	7.901	(1.000)	1692196	40.0000	
* 9 Phenanthrene-d10	188	9.164	9.164	(1.000)	2742443	40.0000	
$ 13 o-Terphenyl	230	9.470	9.470	(1.033)	805710	20.0000	20
* 17 Chrysene-d12	240	11.520	11.520	(1.000)	2671554	40.0000	
* 22 Perylene-d12	264	13.418	13.418	(1.000)	2767955	40.0000	
2 Naphthalene	128	6.256	6.256	(1.004)	1499373	20.0000	20
3 2-Methylnaphthalene	142	6.955	6.955	(1.116)	965566	20.0000	20
4 1-Methylnaphthalene	142	7.043	7.043	(1.130)	900178	20.0000	20
5 Acenaphthylene	152	7.778	7.778	(0.984)	1468866	20.0000	20
7 Acenaphthene	154	7.930	7.930	(1.004)	868428	20.0000	19
8 Fluorene	166	8.371	8.371	(1.059)	1031469	20.0000	19
10 Phenanthrene	178	9.182	9.182	(1.002)	1479086	20.0000	19
11 Anthracene	178	9.223	9.223	(1.006)	1520613	20.0000	20
12 Carbazole	167	9.358	9.358	(1.021)	1354823	20.0000	20
14 Fluoranthene	202	10.163	10.163	(1.109)	1549406	20.0000	20
15 Pyrene	202	10.351	10.351	(0.899)	1653183	20.0000	20
16 Benzo(a)anthracene	228	11.503	11.503	(0.998)	1424873	20.0000	20
18 Chrysene	228	11.550	11.550	(1.003)	1436719	20.0000	19
19 Benzo(b)fluoranthene	252	12.854	12.854	(0.958)	1364545	20.0000	19
20 Benzo(k)fluoranthene	252	12.901	12.901	(0.961)	1480475	20.0000	20
21 Benzo(a)pyrene	252	13.324	13.324	(0.993)	1395303	20.0000	20
23 Indeno(1,2,3-cd)pyrene	276	15.063	15.063	(1.123)	1448350	20.0000	20
24 Dibenzo(a,h)anthracene	278	15.104	15.104	(1.126)	1352122	20.0000	20
25 Benzo(g,h,i)perylene	276	15.539	15.539	(1.158)	1385933	20.0000	20

Data File: 1DA07007.D

Date: 07-JAN-2013 12:13

Client ID: Instrument: BSMSD.i

Sample Info: ICIS-1489898 Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07008.D
Lab Smp Id: IC-1489899
Inj Date : 07-JAN-2013 12:36
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 12:13 Cal File: 1DA07007.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.234	6.234	(1.000)	2819474	40.0000	
* 6 Acenaphthene-d10	164	7.902	7.902	(1.000)	1630580	40.0000	
* 9 Phenanthrene-d10	188	9.166	9.166	(1.000)	2655331	40.0000	
$ 13 o-Terphenyl	230	9.471	9.471	(1.033)	1199919	30.0000	30
* 17 Chrysene-d12	240	11.522	11.522	(1.000)	2562794	40.0000	
* 22 Perylene-d12	264	13.425	13.425	(1.000)	2638585	40.0000	
2 Naphthalene	128	6.257	6.257	(1.004)	2217525	30.0000	30
3 2-Methylnaphthalene	142	6.956	6.956	(1.116)	1421632	30.0000	30
4 1-Methylnaphthalene	142	7.045	7.045	(1.130)	1331678	30.0000	30
5 Acenaphthylene	152	7.779	7.779	(0.984)	2195429	30.0000	31
7 Acenaphthene	154	7.932	7.932	(1.004)	1293933	30.0000	30
8 Fluorene	166	8.372	8.372	(1.059)	1536111	30.0000	30
10 Phenanthrene	178	9.183	9.183	(1.002)	2200797	30.0000	29
11 Anthracene	178	9.224	9.224	(1.006)	2270785	30.0000	30
12 Carbazole	167	9.359	9.359	(1.021)	2014501	30.0000	31
14 Fluoranthene	202	10.164	10.164	(1.109)	2314400	30.0000	30
15 Pyrene	202	10.352	10.352	(0.899)	2464372	30.0000	31
16 Benzo(a)anthracene	228	11.504	11.504	(0.998)	2113434	30.0000	30
18 Chrysene	228	11.551	11.551	(1.003)	2141587	30.0000	30
19 Benzo(b)fluoranthene	252	12.861	12.861	(0.958)	2058806	30.0000	31
20 Benzo(k)fluoranthene	252	12.902	12.902	(0.961)	2168595	30.0000	31
21 Benzo(a)pyrene	252	13.331	13.331	(0.993)	2075812	30.0000	31
23 Indeno(1,2,3-cd)pyrene	276	15.076	15.076	(1.123)	2255455	30.0000	32
24 Dibenzo(a,h)anthracene	278	15.112	15.112	(1.126)	2019856	30.0000	31(H)
25 Benzo(g,h,i)perylene	276	15.552	15.552	(1.158)	2079330	30.0000	31(H)

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: 1DA07008.D

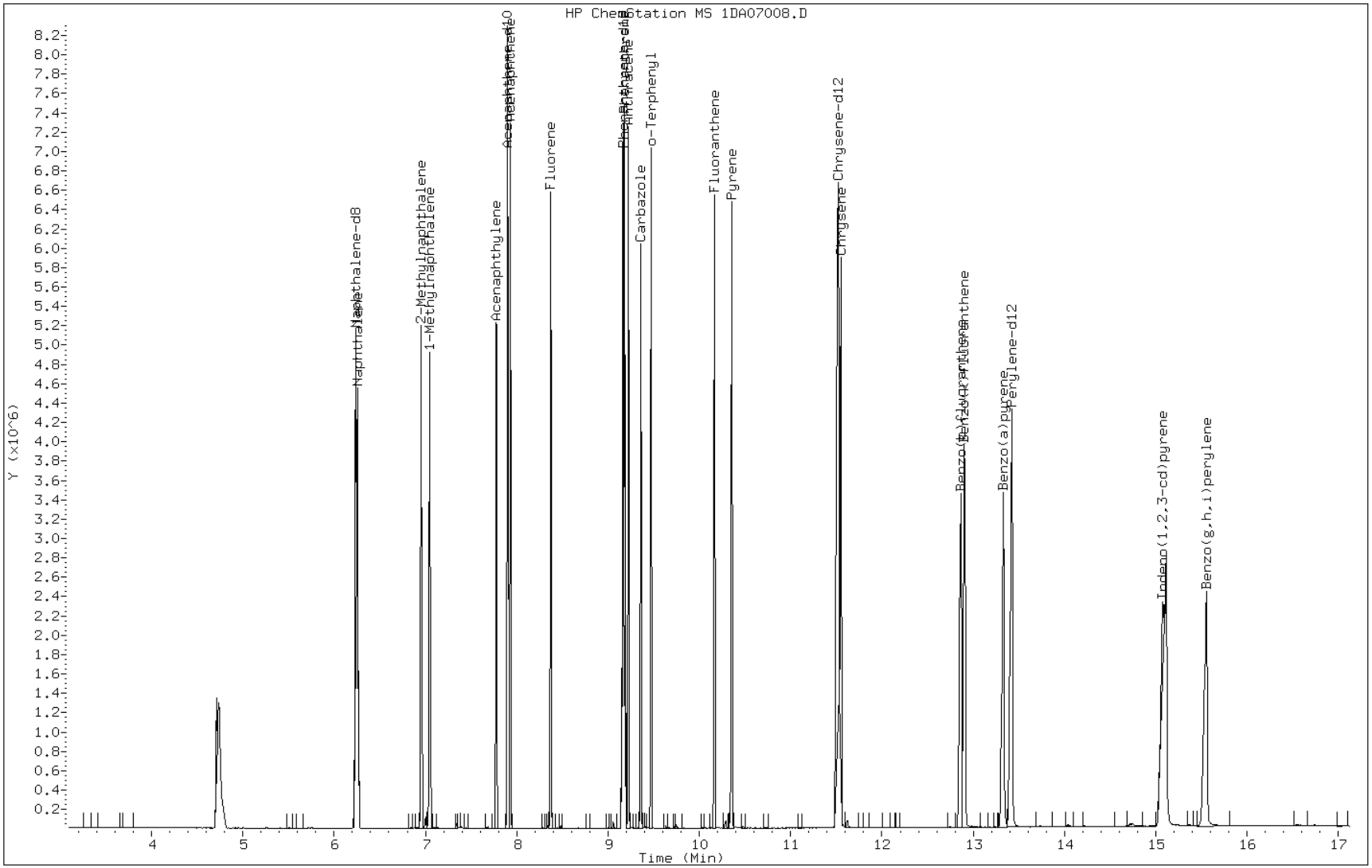
Date: 07-JAN-2013 12:36

Client ID:

Instrument: BSMSD.i

Sample Info: IC-1489899

Operator: SCC



TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07009.D
Lab Smp Id: IC-1489900
Inj Date : 07-JAN-2013 12:58
Operator : SCC Inst ID: BSMSD.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:49 BSMSD.i Quant Type: ISTD
Cal Date : 07-JAN-2013 12:36 Cal File: 1DA07008.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.231	6.231	(1.000)	2635845	40.0000	
* 6 Acenaphthene-d10	164	7.900	7.900	(1.000)	1550449	40.0000	
* 9 Phenanthrene-d10	188	9.163	9.163	(1.000)	2495751	40.0000	
$ 13 o-Terphenyl	230	9.475	9.475	(1.034)	1821099	50.0000	49
* 17 Chrysene-d12	240	11.525	11.525	(1.000)	2455020	40.0000	
* 22 Perylene-d12	264	13.423	13.423	(1.000)	2541536	40.0000	
2 Naphthalene	128	6.255	6.255	(1.004)	3455368	50.0000	50
3 2-Methylnaphthalene	142	6.954	6.954	(1.116)	2191842	50.0000	50
4 1-Methylnaphthalene	142	7.048	7.048	(1.131)	2059513	50.0000	49
5 Acenaphthylene	152	7.777	7.777	(0.984)	3401253	50.0000	51(A)
7 Acenaphthene	154	7.935	7.935	(1.004)	1990525	50.0000	49
8 Fluorene	166	8.376	8.376	(1.060)	2359500	50.0000	49
10 Phenanthrene	178	9.187	9.187	(1.003)	3355969	50.0000	47
11 Anthracene	178	9.228	9.228	(1.007)	3429358	50.0000	49
12 Carbazole	167	9.363	9.363	(1.022)	3068003	50.0000	50
14 Fluoranthene	202	10.168	10.168	(1.110)	3537470	50.0000	50
15 Pyrene	202	10.356	10.356	(0.899)	3756325	50.0000	49
16 Benzo(a)anthracene	228	11.508	11.508	(0.998)	3323349	50.0000	50
18 Chrysene	228	11.555	11.555	(1.003)	3263100	50.0000	47
19 Benzo(b)fluoranthene	252	12.871	12.871	(0.959)	3216419	50.0000	50
20 Benzo(k)fluoranthene	252	12.912	12.912	(0.962)	3338707	50.0000	49
21 Benzo(a)pyrene	252	13.341	13.341	(0.994)	3269544	50.0000	51(A)
23 Indeno(1,2,3-cd)pyrene	276	15.092	15.092	(1.124)	3629982	50.0000	53(AM)
24 Dibenzo(a,h)anthracene	278	15.133	15.133	(1.127)	3175644	50.0000	51(AH)
25 Benzo(g,h,i)perylene	276	15.573	15.573	(1.160)	3258091	50.0000	50(AH)

QC Flag Legend

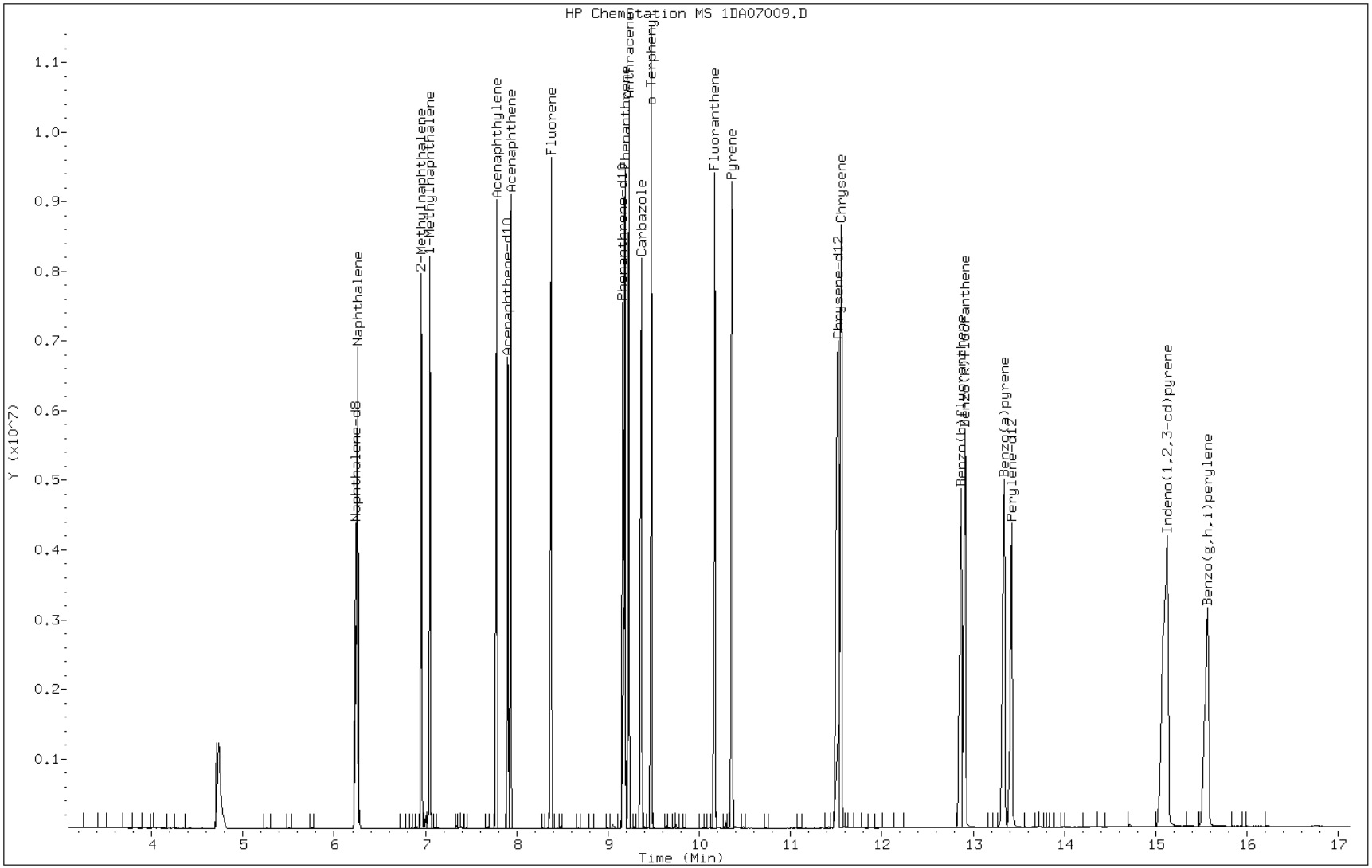
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1DA07009.D

Date: 07-JAN-2013 12:58

Client ID: Instrument: BSMSD.i

Sample Info: IC-1489900 Operator: SCC



Manual Integration Report

Data File: 1DA07009.D
Inj. Date and Time: 07-JAN-2013 12:58
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/07/2013

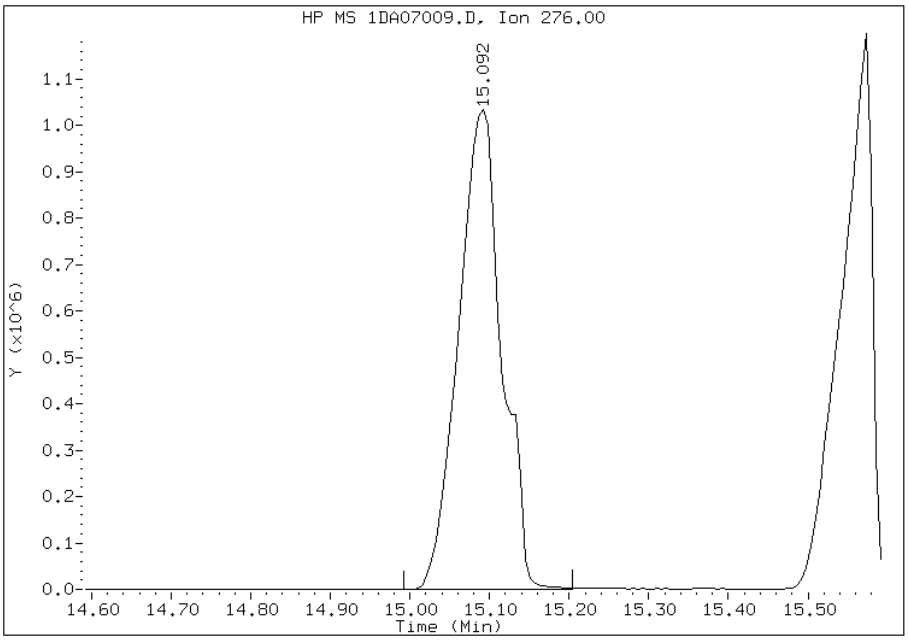
Processing Integration Results

RT: 15.09

Response: 3898805

Amount: 53

Conc: 53



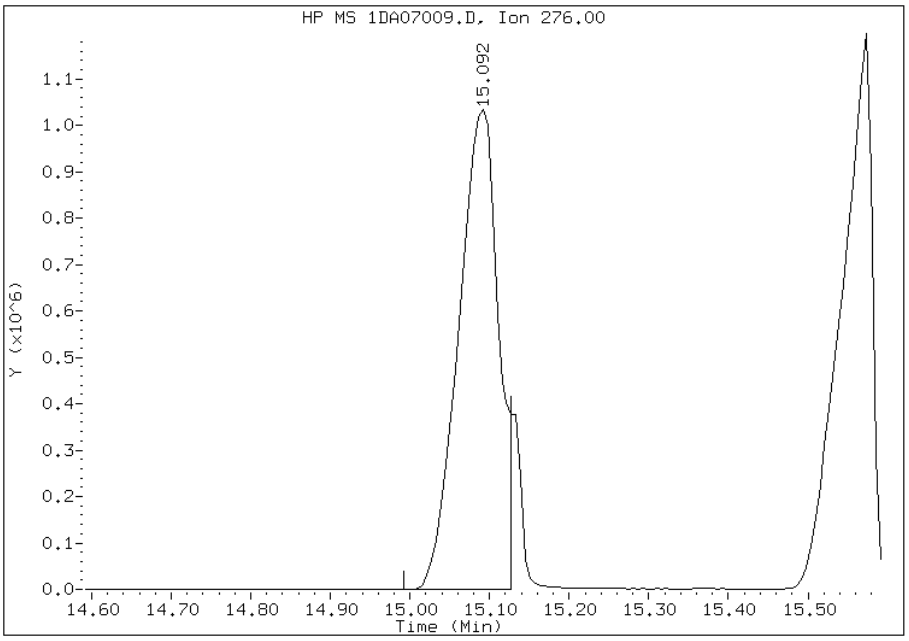
Manual Integration Results

RT: 15.09

Response: 3629982

Amount: 53

Conc: 53



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:48
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Lab Sample ID: ICV 660-134771/10 Calibration Date: 02/22/2013 12:48

Instrument ID: BSMA5973 Calib Start Date: 02/22/2013 11:01

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 12:32

Lab File ID: 1AB22010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9639	1.041	0.0000	21600	20000	8.0	35.0
2-Methylnaphthalene	Ave	0.4976	0.6073	0.0000	24400	20000	22.1	35.0
1-Methylnaphthalene	Ave	0.5541	0.6133	0.0000	22100	20000	10.7	35.0
Acenaphthylene	Ave	1.494	1.591	0.0000	21300	20000	6.5	35.0
Acenaphthene	Ave	0.8630	0.9140	0.0000	21200	20000	5.9	35.0
Fluorene	Ave	1.089	1.173	0.0000	21500	20000	7.7	35.0
Phenanthrene	Ave	0.9943	1.047	0.0000	21100	20000	5.3	35.0
Anthracene	Ave	0.9658	1.032	0.0000	21400	20000	6.8	35.0
Carbazole	Ave	0.8526	0.6904	0.0000	16200	20000	-19.0	35.0
Fluoranthene	Ave	0.9941	1.121	0.0000	22600	20000	12.8	35.0
Pyrene	Ave	1.173	1.180	0.0000	20100	20000	0.5	35.0
Benzo[a]anthracene	LinF	1.255	1.249	0.0000	20900	20000	4.6	35.0
Chrysene	Ave	1.068	1.082	0.0000	20300	20000	1.3	35.0
Benzo[b]fluoranthene	Ave	1.014	1.214	0.0000	23900	20000	19.7	35.0
Benzo[k]fluoranthene	Ave	1.020	0.9836	0.0000	19300	20000	-3.6	35.0
Benzo[a]pyrene	Ave	0.9286	0.9134	0.0000	19700	20000	-1.6	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.7967	0.8998	0.0000	22600	20000	12.9	35.0
Dibenz(a,h)anthracene	Ave	0.8302	0.9949	0.0000	24000	20000	19.8	35.0
Benzo[g,h,i]perylene	Ave	0.8473	0.9097	0.0000	21500	20000	7.4	35.0
o-Terphenyl	Ave	0.5820	0.5933	0.0000	20400	20000	1.9	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22010.D
Lab Smp Id: ICV-1448440
Inj Date : 22-FEB-2013 12:48
Operator : SCC Inst ID: BSMA5973.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\a-bFASTPAHi-m.m
Meth Date : 22-Feb-2013 13:00 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.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	2.399	2.397	(1.000)	1470215	40.0000	
* 6 Acenaphthene-d10	164	3.420	3.417	(1.000)	948405	40.0000	
* 10 Phenanthrene-d10	188	4.360	4.352	(1.000)	1446139	40.0000	
$ 14 o-Terphenyl	230	4.632	4.635	(1.062)	428980	20.3860	20.3860
* 18 Chrysene-d12	240	6.374	6.366	(1.000)	1373239	40.0000	
* 23 Perylene-d12	264	7.464	7.456	(1.000)	1363331	40.0000	
2 Naphthalene	128	2.405	2.402	(1.002)	765124	21.5974	21.5973
3 2-Methylnaphthalene	141	2.811	2.808	(1.171)	446439	24.4108	24.4108
4 1-Methylnaphthalene	142	2.864	2.861	(1.194)	450855	22.1381	22.1381
5 Acenaphthylene	152	3.334	3.332	(0.975)	754514	21.3067	21.3066
7 Acenaphthene	154	3.441	3.433	(1.006)	433440	21.1828	21.1827
9 Fluorene	166	3.751	3.743	(1.097)	556408	21.5449	21.5448
11 Phenanthrene	178	4.376	4.368	(1.004)	756904	21.0566	21.0566
12 Anthracene	178	4.408	4.400	(1.011)	745923	21.3632	21.3632
13 Carbazole	167	4.552	4.555	(1.044)	499181	16.1953	16.1952(M)
15 Fluoranthene	202	5.231	5.228	(1.200)	810723	22.5570	22.5570
16 Pyrene	202	5.396	5.394	(0.847)	809912	20.1075	20.1075

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/l)
17 Benzo(a)anthracene	228	6.363	6.355	(0.998)	857818	20.9204	20.9204
19 Chrysene	228	6.390	6.387	(1.002)	742781	20.2547	20.2547
20 Benzo(b)fluoranthene	252	7.186	7.178	(0.963)	827441	23.9419	23.9419
21 Benzo(k)fluoranthene	252	7.207	7.199	(0.966)	670501	19.2840	19.2839
22 Benzo(a)pyrene	252	7.410	7.408	(0.993)	622627	19.6723	19.6722
24 Indeno(1,2,3-cd)pyrene	276	8.190	8.177	(1.097)	613332	22.5881	22.5880(M)
25 Dibenzo(a,h)anthracene	278	8.206	8.193	(1.099)	678184	23.9679	23.9678
26 Benzo(g,h,i)perylene	276	8.399	8.385	(1.125)	620086	21.4710	21.4710

QC Flag Legend

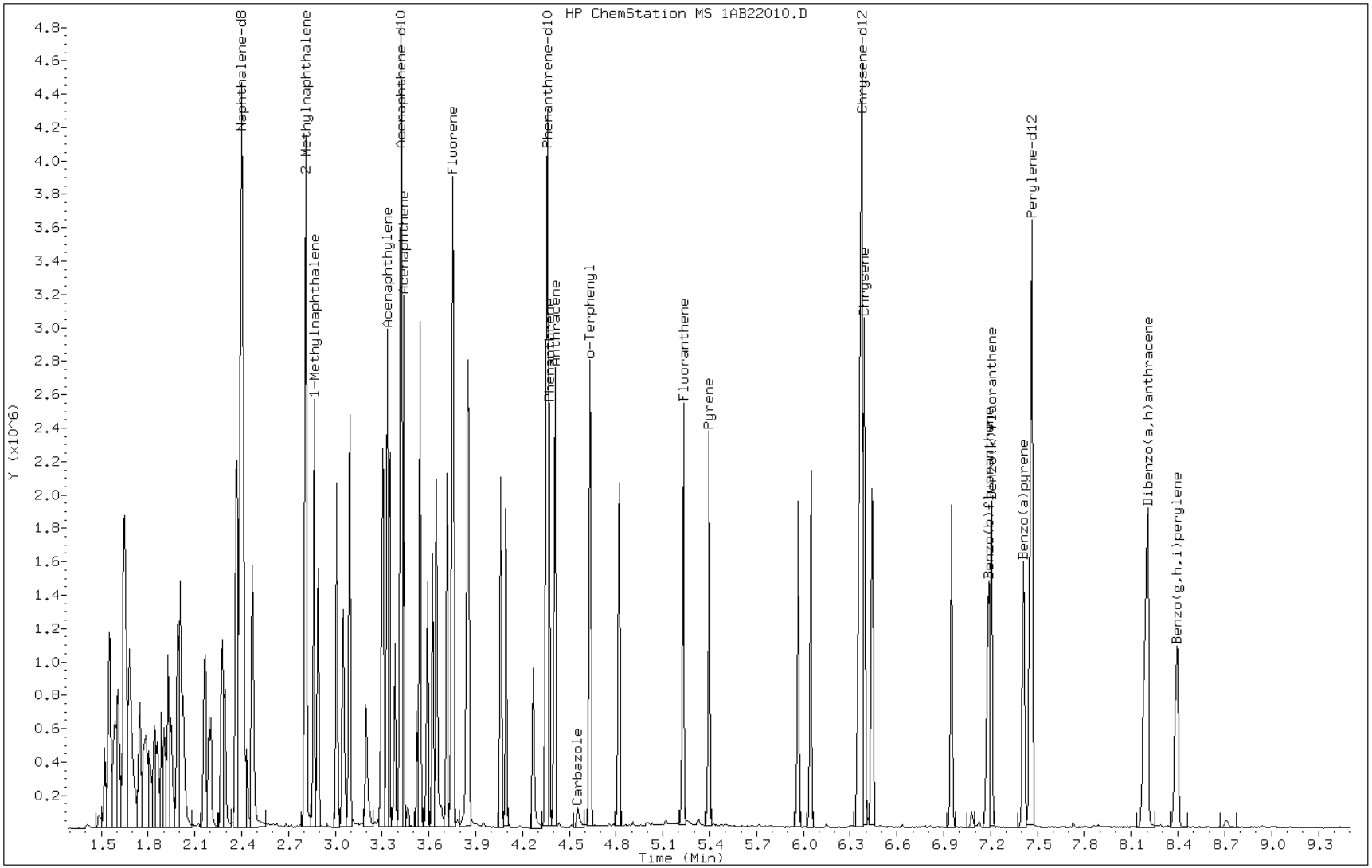
M - Compound response manually integrated.

Data File: 1AB22010.D

Date: 22-FEB-2013 12:48

Client ID: Instrument: BSMA5973.i

Sample Info: ICV-1448440 Operator: SCC



Manual Integration Report

Data File: 1AB22010.D
Inj. Date and Time: 22-FEB-2013 12:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 13 Carbazole
CAS #: 86-74-8
Report Date: 02/22/2013

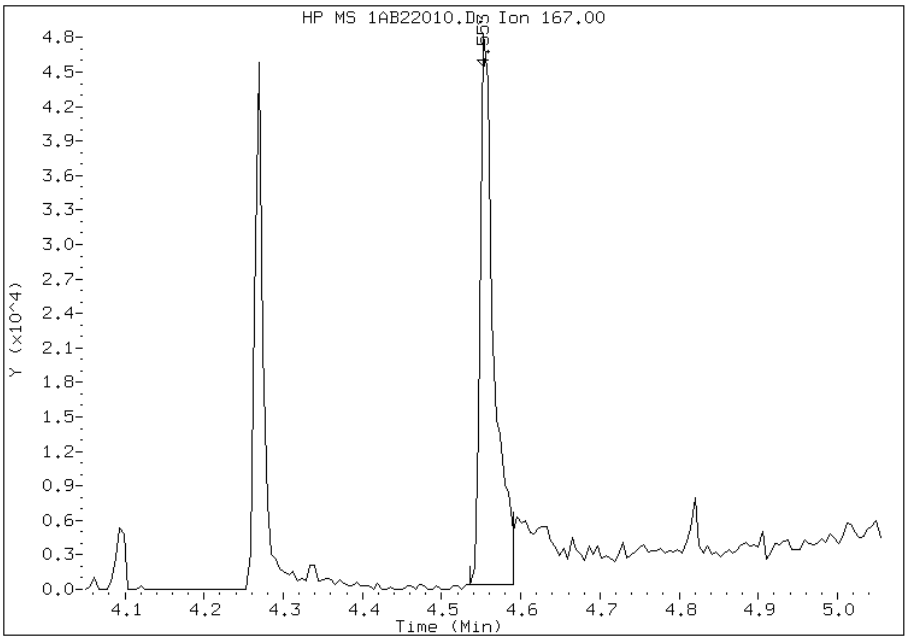
Processing Integration Results

RT: 4.55

Response: 57208

Amount: 2

Conc: 2



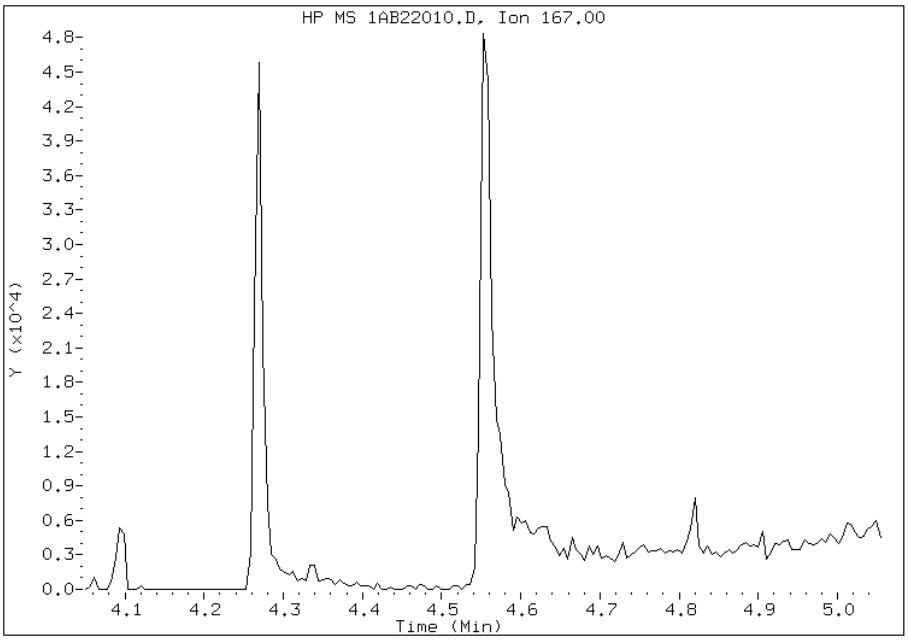
Manual Integration Results

RT: 4.55

Response: 499181

Amount: 16

Conc: 16



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 13:04
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1AB22010.D
Inj. Date and Time: 22-FEB-2013 12:48
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/22/2013

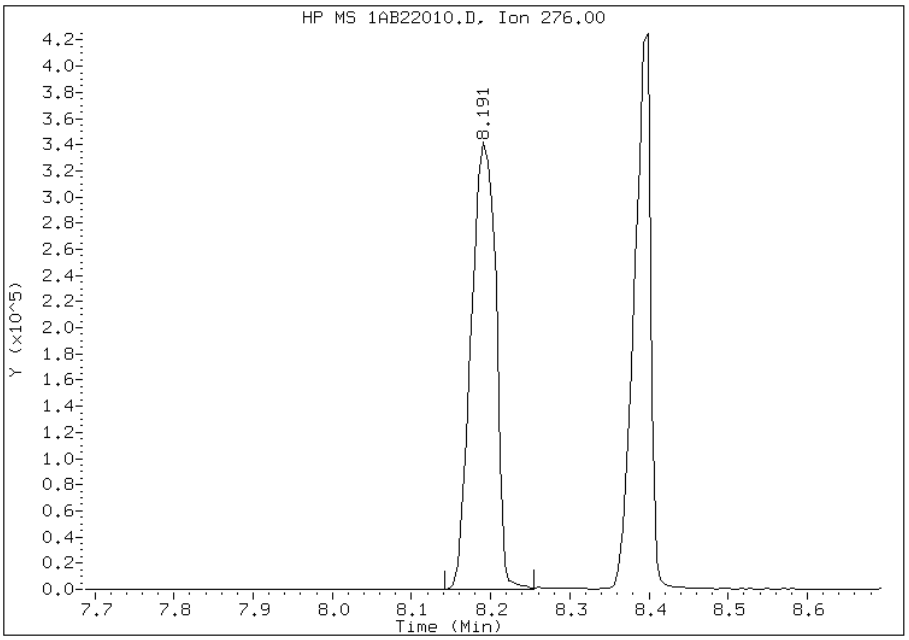
Processing Integration Results

RT: 8.19

Response: 733813

Amount: 27

Conc: 27



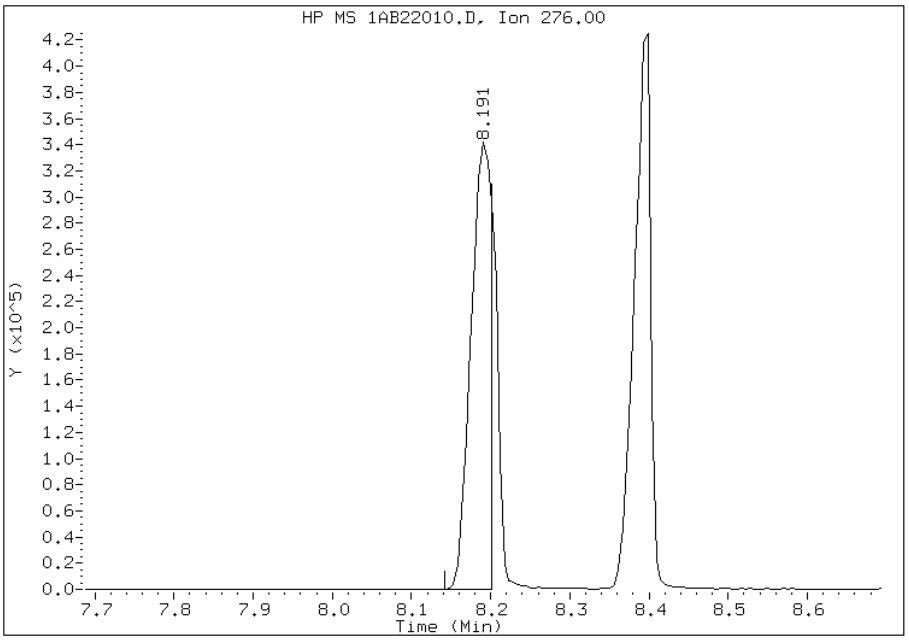
Manual Integration Results

RT: 8.19

Response: 613332

Amount: 23

Conc: 23



Manually Integrated By: cantins
Modification Date: 22-Feb-2013 13:02
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Lab Sample ID: CCVIS 660-134820/6 Calibration Date: 02/25/2013 14:59

Instrument ID: BSMA5973 Calib Start Date: 02/22/2013 11:01

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 02/22/2013 12:32

Lab File ID: 1AB25006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9639	0.9188	0.0000	19100	20000	-4.7	20.0
2-Methylnaphthalene	Ave	0.4976	0.4755	0.0000	19100	20000	-4.4	20.0
1-Methylnaphthalene	Ave	0.5541	0.5294	0.0000	19100	20000	-4.5	20.0
Acenaphthylene	Ave	1.494	1.502	0.0000	20100	20000	0.6	20.0
Acenaphthene	Ave	0.8630	0.8273	0.0000	19200	20000	-4.1	20.0
Fluorene	Ave	1.089	1.050	0.0000	19300	20000	-3.6	20.0
Phenanthrene	Ave	0.9943	1.040	0.0000	20900	20000	4.6	20.0
Anthracene	Ave	0.9658	1.026	0.0000	21300	20000	6.3	20.0
Carbazole	Ave	0.8526	0.8692	0.0000	20400	20000	2.0	20.0
Fluoranthene	Ave	0.9941	1.046	0.0000	21100	20000	5.3	20.0
Pyrene	Ave	1.173	1.262	0.0000	21500	20000	7.5	20.0
Benzo[a]anthracene	LinF	1.255	1.172	0.0000	19600	20000	-1.8	20.0
Chrysene	Ave	1.068	1.037	0.0000	19400	20000	-2.9	20.0
Benzo[b]fluoranthene	Ave	1.014	0.9469	0.0000	18700	20000	-6.6	20.0
Benzo[k]fluoranthene	Ave	1.020	1.188	0.0000	23300	20000	16.5	20.0
Benzo[a]pyrene	Ave	0.9286	0.9719	0.0000	20900	20000	4.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.7967	0.7535	0.0000	18900	20000	-5.4	20.0
Dibenz(a,h)anthracene	Ave	0.8302	0.8248	0.0000	19900	20000	-0.6	20.0
Benzo[g,h,i]perylene	Ave	0.8473	0.8531	0.0000	20100	20000	0.7	20.0
o-Terphenyl	Ave	0.5820	0.5637	0.0000	19400	20000	-3.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25006.D
Lab Smp Id: CCVIS-1512372
Inj Date : 25-FEB-2013 14:59
Operator : SCC Inst ID: BSMA5973.i
Smp Info : CCVIS-1512372
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\a-bFASTPAHi-m.m
Meth Date : 25-Feb-2013 15:11 cantins Quant Type: ISTD
Cal Date : 22-FEB-2013 12:32 Cal File: 1AB22009.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	2.379	2.379	(1.000)	843764	40.0000	
* 6 Acenaphthene-d10	164	3.404	3.404	(1.000)	532930	40.0000	
* 10 Phenanthrene-d10	188	4.339	4.339	(1.000)	749974	40.0000	
$ 14 o-Terphenyl	230	4.622	4.622	(1.065)	211362	20.0000	19.3680
* 18 Chrysene-d12	240	6.353	6.353	(1.000)	646044	40.0000	
* 23 Perylene-d12	264	7.443	7.443	(1.000)	653985	40.0000	
2 Naphthalene	128	2.389	2.389	(1.004)	387639	20.0000	19.0658
3 2-Methylnaphthalene	141	2.790	2.790	(1.173)	200599	20.0000	19.1121
4 1-Methylnaphthalene	142	2.849	2.849	(1.198)	223331	20.0000	19.1079
5 Acenaphthylene	152	3.319	3.319	(0.975)	400298	20.0000	20.1166
7 Acenaphthene	154	3.420	3.420	(1.005)	220447	20.0000	19.1726
9 Fluorene	166	3.730	3.730	(1.096)	279917	20.0000	19.2887
11 Phenanthrene	178	4.355	4.355	(1.004)	390104	20.0000	20.9262
12 Anthracene	178	4.387	4.387	(1.011)	384839	20.0000	21.2527
13 Carbazole	167	4.542	4.542	(1.047)	325931	20.0000	20.3901
15 Fluoranthene	202	5.215	5.215	(1.202)	392359	20.0000	21.0502
16 Pyrene	202	5.381	5.381	(0.847)	407585	20.0000	21.5091
17 Benzo(a)anthracene	228	6.342	6.342	(0.998)	378684	20.0000	19.6307
19 Chrysene	228	6.369	6.369	(1.003)	335032	20.0000	19.4194
20 Benzo(b)fluoranthene	252	7.165	7.165	(0.963)	309635	20.0000	18.6769
21 Benzo(k)fluoranthene	252	7.181	7.181	(0.965)	388543	20.0000	23.2953
22 Benzo(a)pyrene	252	7.390	7.390	(0.993)	317805	20.0000	20.9325
24 Indeno(1,2,3-cd)pyrene	276	8.164	8.164	(1.097)	246391	20.0000	18.9165(M)
25 Dibenzo(a,h)anthracene	278	8.180	8.180	(1.099)	269706	20.0000	19.8703
26 Benzo(g,h,i)perylene	276	8.367	8.367	(1.124)	278972	20.0000	20.1370

QC Flag Legend

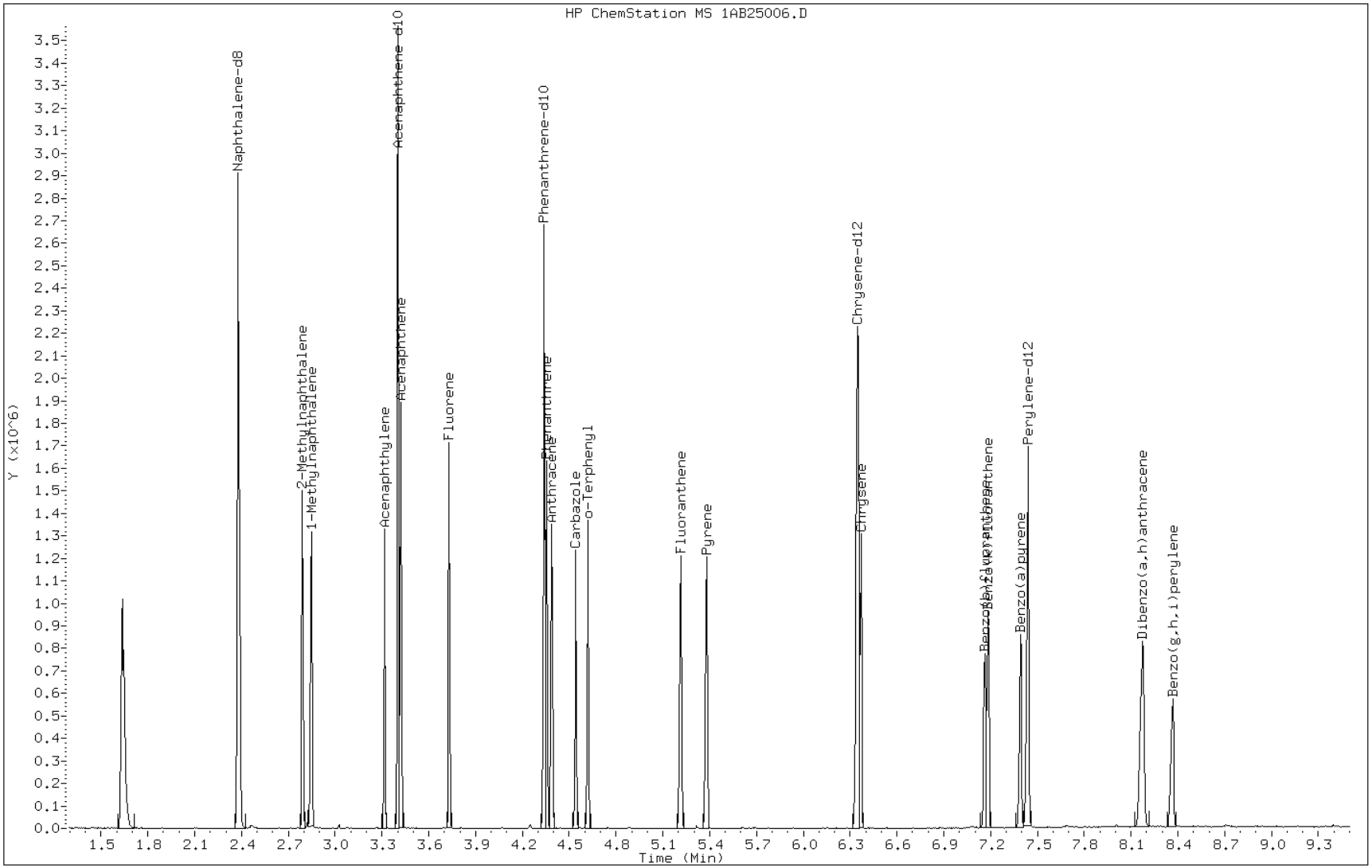
M - Compound response manually integrated.

Data File: 1AB25006.D

Date: 25-FEB-2013 14:59

Client ID: Instrument: BSMA5973.i

Sample Info: CCVIS-1512372 Operator: SCC



Manual Integration Report

Data File: 1AB25006.D
Inj. Date and Time: 25-FEB-2013 14:59
Instrument ID: BSMA5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

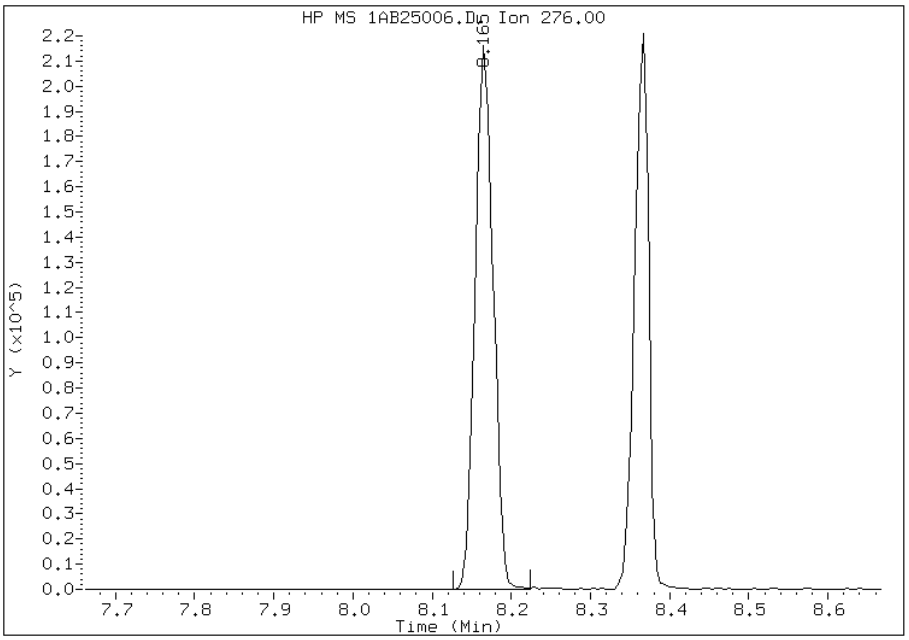
Processing Integration Results

RT: 8.16

Response: 337982

Amount: 26

Conc: 26



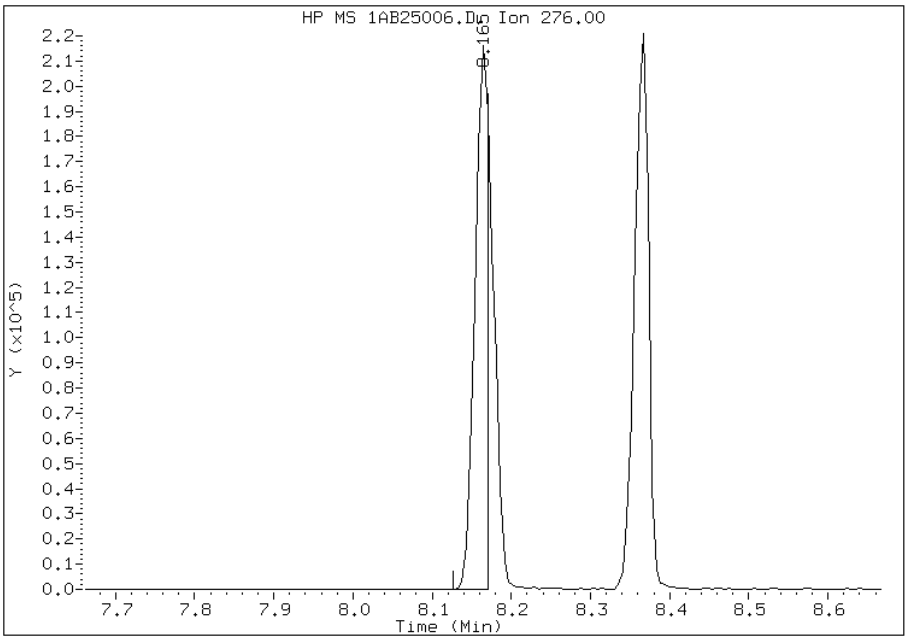
Manual Integration Results

RT: 8.16

Response: 246391

Amount: 19

Conc: 19



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 15:12
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

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

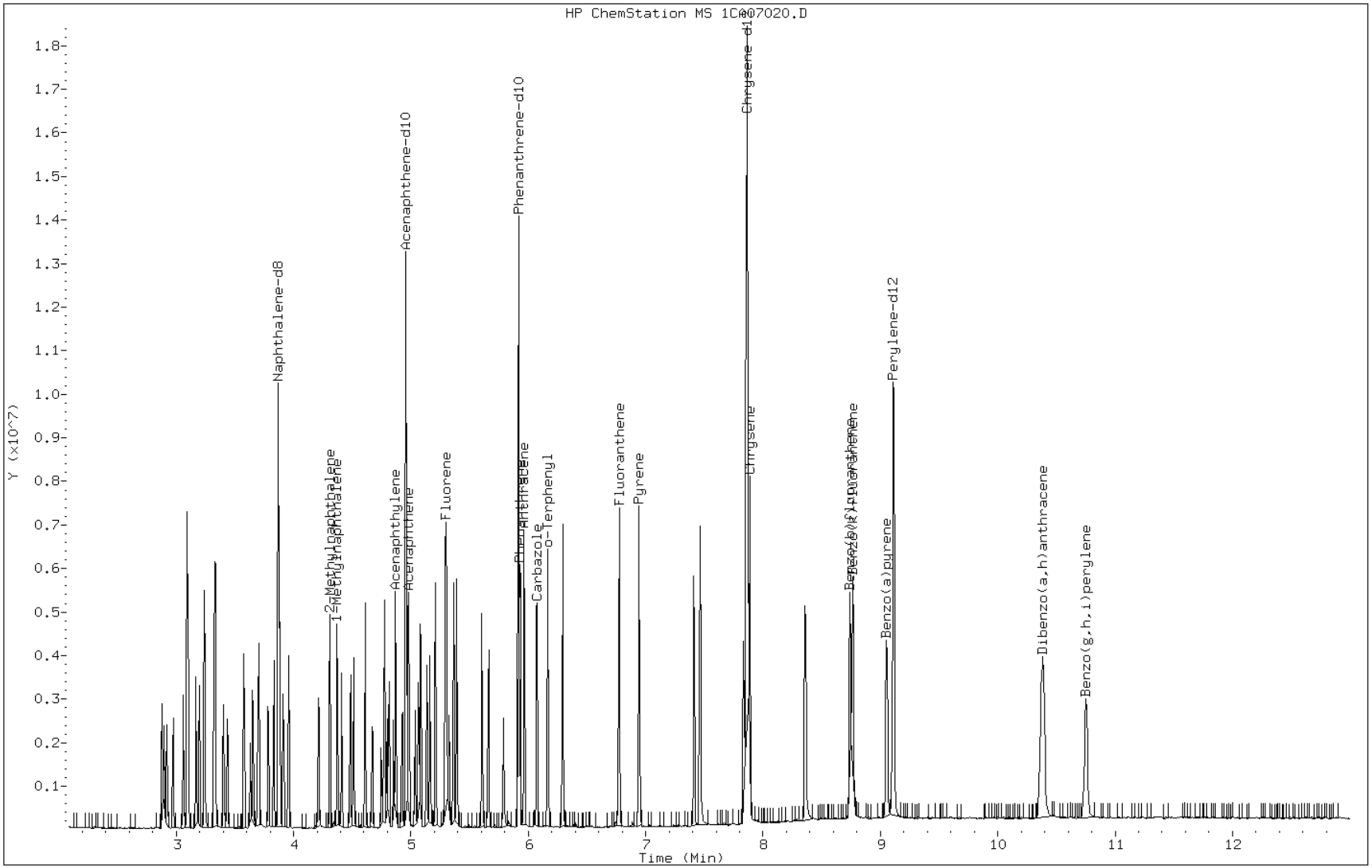
M - Compound response manually integrated.

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

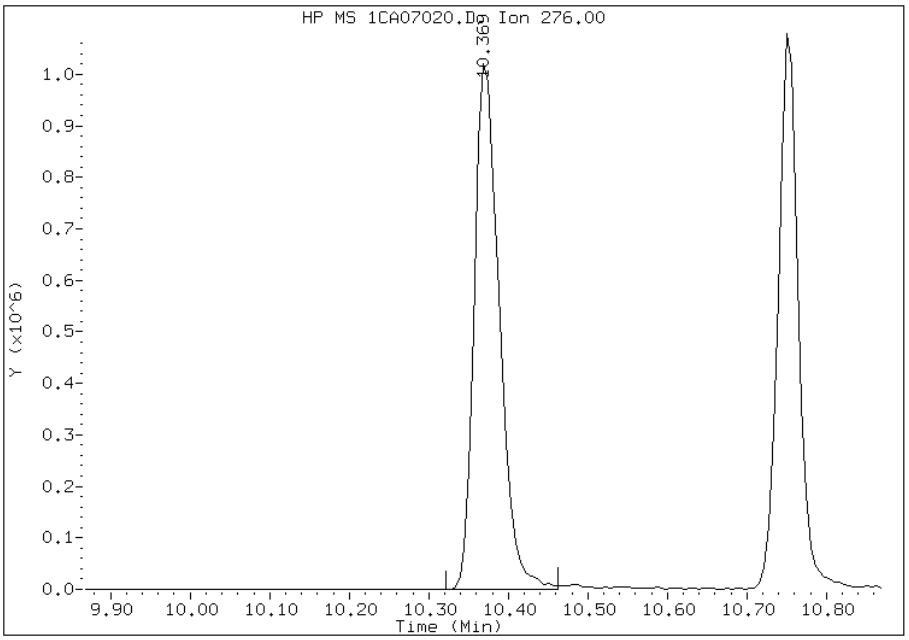
Processing Integration Results

RT: 10.37

Response: 2215563

Amount: 23

Conc: 23



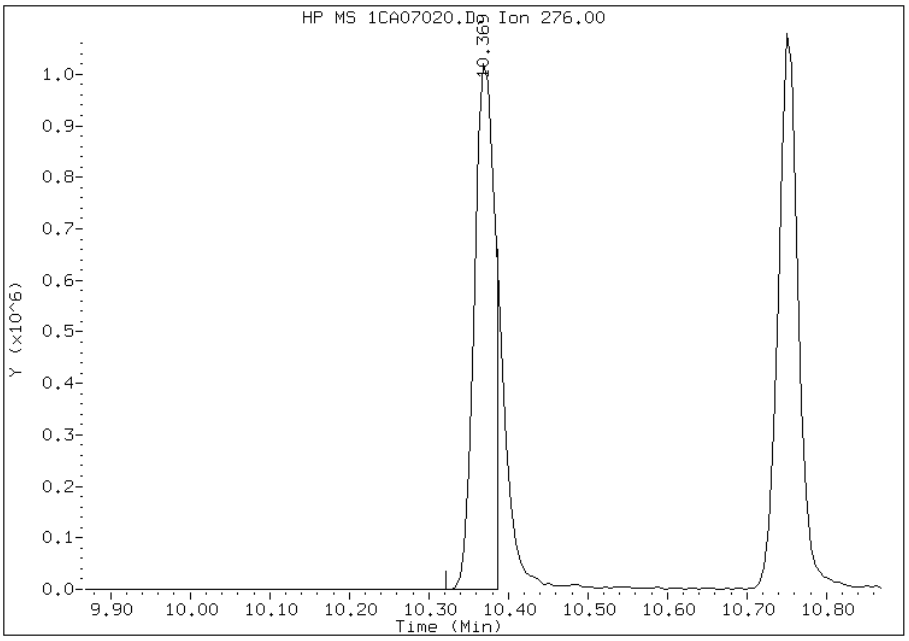
Manual Integration Results

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.: 680-87496-3

SDG No.: 68087496-3

Lab Sample ID: CCVIS 660-134719/3 Calibration Date: 02/21/2013 11:47

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: 1CB21003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.042	0.0000	19700	20000	-1.7	20.0
2-Methylnaphthalene	Ave	0.6892	0.6907	0.0000	20000	20000	0.2	20.0
1-Methylnaphthalene	Ave	0.6268	0.6335	0.0000	20200	20000	1.1	20.0
Acenaphthylene	Ave	1.591	1.616	0.0000	20300	20000	1.5	20.0
Acenaphthene	Ave	0.998	0.9623	0.0000	19300	20000	-3.6	20.0
Fluorene	Ave	1.281	1.236	0.0000	19300	20000	-3.5	20.0
Phenanthrene	Ave	1.194	1.064	0.0000	17800	20000	-10.9	20.0
Anthracene	Ave	1.076	1.056	0.0000	19600	20000	-1.9	20.0
Carbazole	Ave	0.9344	0.9358	0.0000	20000	20000	0.1	20.0
Fluoranthene	Ave	1.167	1.193	0.0000	20500	20000	2.3	20.0
Pyrene	Ave	1.065	1.078	0.0000	20200	20000	1.2	20.0
Benzo[a]anthracene	Ave	1.103	1.033	0.0000	18700	20000	-6.3	20.0
Chrysene	Ave	1.139	1.056	0.0000	18500	20000	-7.3	20.0
Benzo[b]fluoranthene	Ave	0.9807	0.9688	0.0000	19800	20000	-1.2	20.0
Benzo[k]fluoranthene	Ave	1.080	1.110	0.0000	20500	20000	2.7	20.0
Benzo[a]pyrene	Ave	0.9332	0.9801	0.0000	21000	20000	5.0	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.9309	0.0000	20800	20000	3.9	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8405	0.0000	19900	20000	-0.6	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.9099	0.0000	20000	20000	-0.0	20.0
o-Terphenyl	Ave	0.5861	0.5916	0.0000	20200	20000	0.9	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 21-FEB-2013 11:47
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 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)	ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	2244779	40.0000	(H)
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1725884	40.0000	(H)
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	3414107	40.0000	(H)
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	1009917	20.0000	20.1884(H)
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	4147916	40.0000	(H)
* 23 Perylene-d12	264	9.039	9.039	(1.000)	4112157	40.0000	(H)
2 Naphthalene	128	3.821	3.821	(1.003)	1170036	20.0000	19.6698(H)
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	775212	20.0000	20.0428(H)
4 1-Methylnaphthalene	142	4.315	4.315	(1.133)	711057	20.0000	20.2137(H)
5 Acenaphthylene	152	4.815	4.815	(0.983)	1394394	20.0000	20.3078(H)
7 Acenaphthene	154	4.921	4.921	(1.005)	830424	20.0000	19.2832(H)
9 Fluorene	166	5.239	5.239	(1.070)	1066986	20.0000	19.3015(H)
11 Phenanthrene	178	5.874	5.874	(1.003)	1816060	20.0000	17.8204(H)
12 Anthracene	178	5.904	5.904	(1.008)	1801911	20.0000	19.6251(H)
13 Carbazole	167	6.015	6.015	(1.027)	1597452	20.0000	20.0297(H)
15 Fluoranthene	202	6.715	6.715	(1.147)	2037217	20.0000	20.4582(H)
16 Pyrene	202	6.886	6.886	(0.882)	2234845	20.0000	20.2380(H)
17 Benzo(a)anthracene	228	7.803	7.803	(0.999)	2143313	20.0000	18.7377(H)
19 Chrysene	228	7.833	7.833	(1.003)	2191125	20.0000	18.5447(H)
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.959)	1991823	20.0000	19.7568(H)
21 Benzo(k)fluoranthene	252	8.698	8.698	(0.962)	2281993	20.0000	20.5461(H)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	2015100	20.0000	21.0053(H)
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.135)	1913990	20.0000	20.7723(MH)
25 Dibenzo(a,h)anthracene	278	10.280	10.280	(1.137)	1728216	20.0000	19.8894(H)
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.176)	1870868	20.0000	19.9885(H)

QC Flag Legend

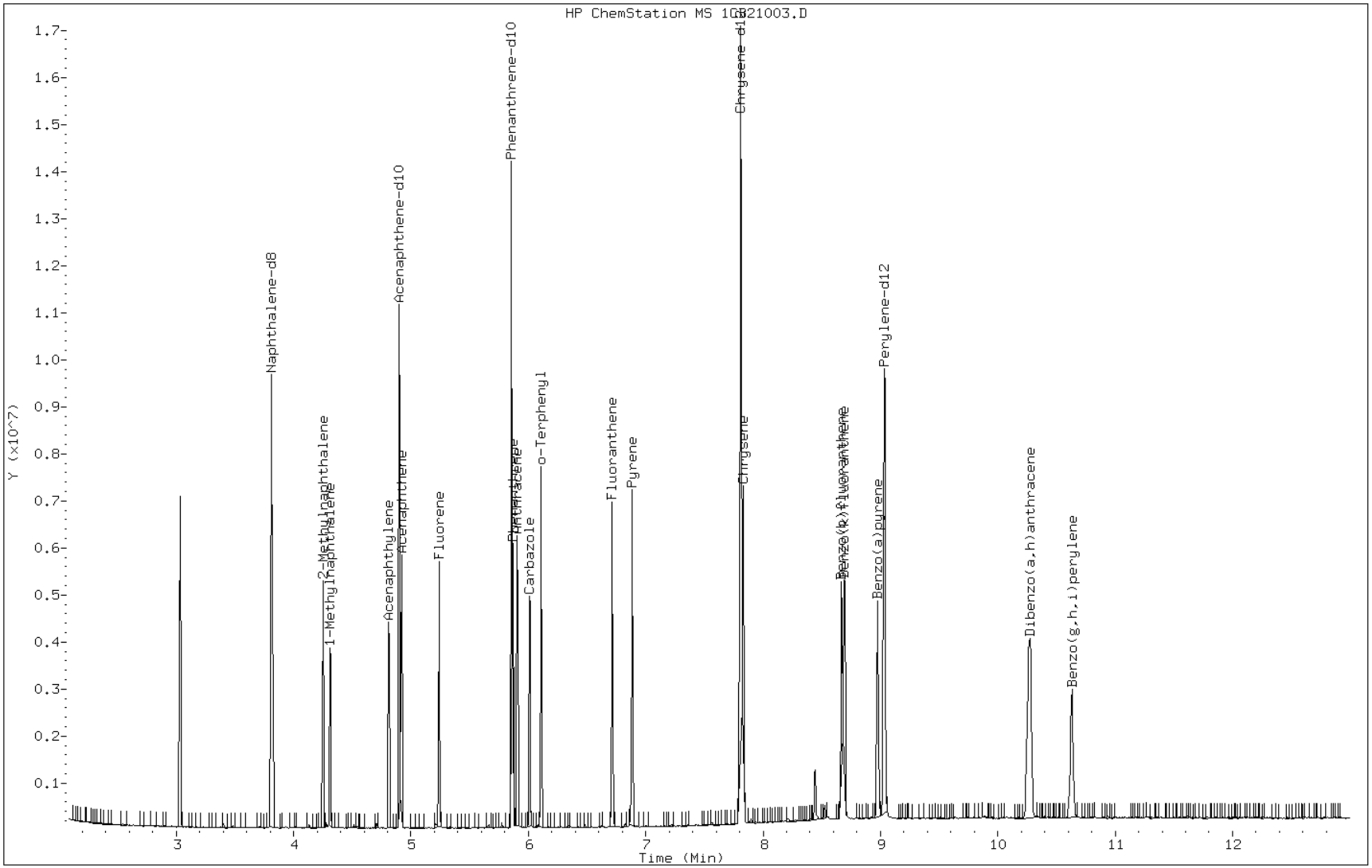
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB21003.D

Date: 21-FEB-2013 11:47

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CB21003.D
Inj. Date and Time: 21-FEB-2013 11:47
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

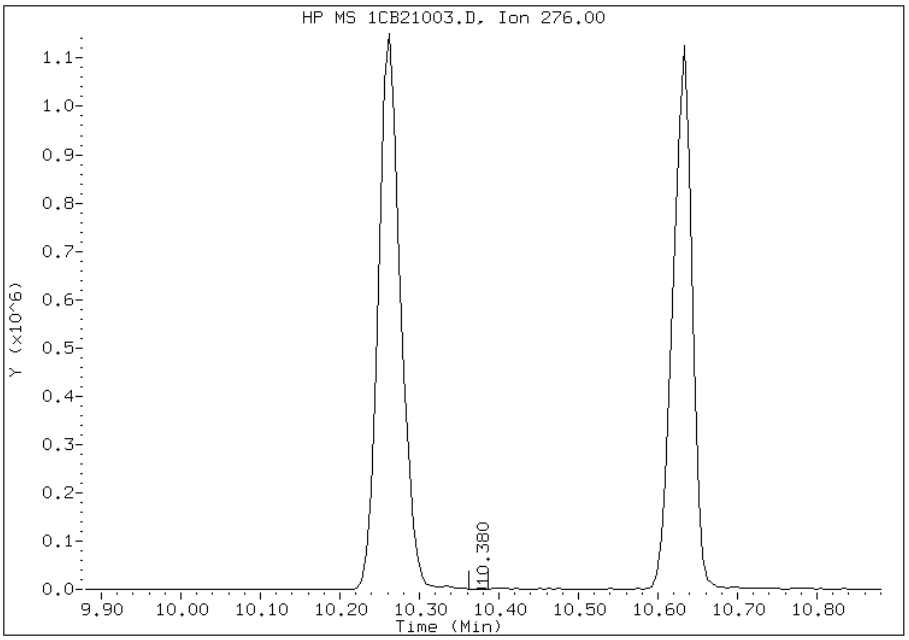
Processing Integration Results

RT: 10.38

Response: 1586

Amount: 0

Conc: 0



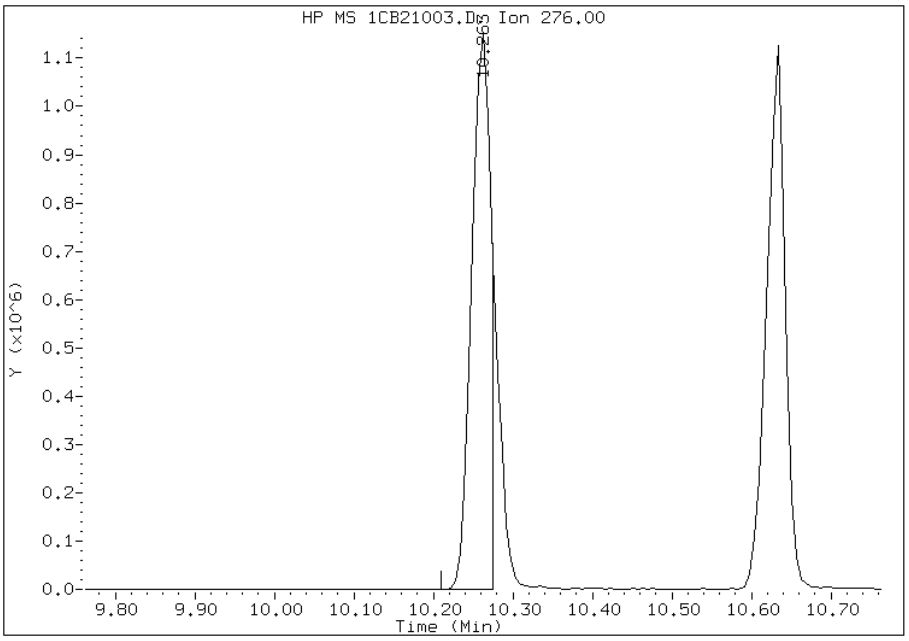
Manual Integration Results

RT: 10.26

Response: 1913990

Amount: 21

Conc: 21



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 12:02
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Lab Sample ID: ICV 660-133192/10 Calibration Date: 01/07/2013 13:20

Instrument ID: BSMD5973 Calib Start Date: 01/07/2013 10:43

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 12:58

Lab File ID: 1DA07010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.058	1.013	0.0000	19100	20000	-4.3	35.0
2-Methylnaphthalene	Ave	0.6719	0.6636	0.0000	19800	20000	-1.2	35.0
1-Methylnaphthalene	Ave	0.6320	0.6314	0.0000	20000	20000	-0.0	35.0
Acenaphthylene	Ave	1.727	1.728	0.0000	20000	20000	0.0	35.0
Acenaphthene	Ave	1.053	1.018	0.0000	19300	20000	-3.4	35.0
Fluorene	Ave	1.251	1.218	0.0000	19500	20000	-2.7	35.0
Phenanthrene	Ave	1.143	1.025	0.0000	17900	20000	-10.3	35.0
Anthracene	Ave	1.120	1.044	0.0000	18600	20000	-6.8	35.0
Carbazole	Ave	0.9917	0.8873	0.0000	17900	20000	-10.5	35.0
Fluoranthene	Ave	1.145	1.111	0.0000	19400	20000	-3.0	35.0
Pyrene	Ave	1.249	1.160	0.0000	18600	20000	-7.1	35.0
Benzo[a]anthracene	Ave	1.170	1.094	0.0000	18700	20000	-6.5	35.0
Chrysene	Ave	1.127	1.028	0.0000	18200	20000	-8.8	35.0
Benzo[b]fluoranthene	Ave	1.015	0.995	0.0000	19600	20000	-2.0	35.0
Benzo[k]fluoranthene	Ave	1.073	1.046	0.0000	19500	20000	-2.5	35.0
Benzo[a]pyrene	Ave	1.001	0.8964	0.0000	17900	20000	-10.5	35.0
Indeno[1,2,3-cd]pyrene	Ave	1.069	0.9676	0.0000	18100	20000	-9.5	35.0
Dibenz(a,h)anthracene	Ave	0.9805	1.052	0.0000	21500	20000	7.3	35.0
Benzo[g,h,i]perylene	Ave	1.022	0.9893	0.0000	19400	20000	-3.2	35.0
o-Terphenyl	Ave	0.5939	0.5462	0.0000	18400	20000	-8.0	35.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\1DA07010.D
Lab Smp Id: ICV-1448440
Inj Date : 07-JAN-2013 13:20
Operator : SCC Inst ID: BSMSD.i
Smp Info : ICV-1448440
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713.b\dFASTPAHi.m
Meth Date : 07-Jan-2013 13:51 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.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/l)	FINAL (ug/l)
* 1 Naphthalene-d8	136	6.237	6.232	(1.000)	2887037	40.0000	
* 6 Acenaphthene-d10	164	7.905	7.900	(1.000)	1699245	40.0000	
* 9 Phenanthrene-d10	188	9.163	9.164	(1.000)	2845473	40.0000	
$ 13 o-Terphenyl	230	9.474	9.475	(1.034)	777100	18.3935	18
* 17 Chrysene-d12	240	11.525	11.526	(1.000)	2715172	40.0000	
* 22 Perylene-d12	264	13.422	13.423	(1.000)	2800784	40.0000	
2 Naphthalene	128	6.254	6.255	(1.003)	1461632	19.1436	19
3 2-Methylnaphthalene	142	6.953	6.955	(1.115)	957886	19.7532	20
4 1-Methylnaphthalene	142	7.047	7.049	(1.130)	911441	19.9820	20
5 Acenaphthylene	152	7.776	7.777	(0.984)	1467855	20.0076	20
7 Acenaphthene	154	7.935	7.936	(1.004)	864809	19.3285	19
8 Fluorene	166	8.375	8.375	(1.059)	1034681	19.4627	19
10 Phenanthrene	178	9.180	9.187	(1.002)	1457645	17.9308	18
11 Anthracene	178	9.221	9.228	(1.006)	1485019	18.6447	19
12 Carbazole	167	9.362	9.363	(1.022)	1262422	17.8955	18(M)
14 Fluoranthene	202	10.167	10.168	(1.110)	1580475	19.4089	19
15 Pyrene	202	10.355	10.356	(0.899)	1574825	18.5765	18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
16 Benzo(a)anthracene	228	11.501	11.508	(0.998)	1485600	18.7054	19
18 Chrysene	228	11.548	11.555	(1.002)	1395285	18.2322	18
19 Benzo(b)fluoranthene	252	12.858	12.871	(0.958)	1393918	19.6056	20
20 Benzo(k)fluoranthene	252	12.899	12.912	(0.961)	1464216	19.4970	19
21 Benzo(a)pyrene	252	13.322	13.341	(0.993)	1255249	17.9068	18
23 Indeno(1,2,3-cd)pyrene	276	15.067	15.092	(1.123)	1354952	18.1092	18(H)
24 Dibenzo(a,h)anthracene	278	15.103	15.133	(1.125)	1472756	21.4507	21
25 Benzo(g,h,i)perylene	276	15.543	15.574	(1.158)	1385369	19.3523	19

QC Flag Legend

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

Data File: 1DA07010.D

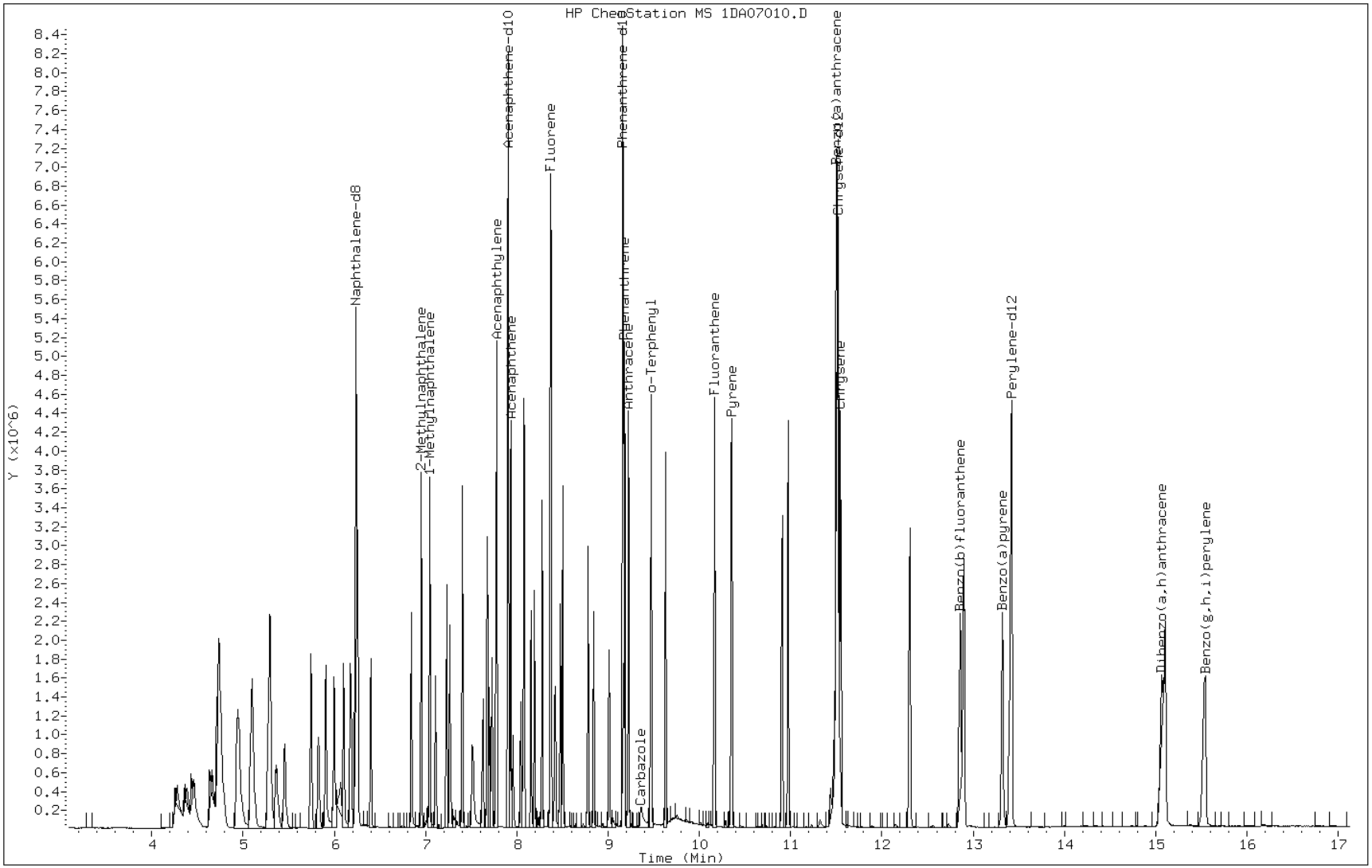
Date: 07-JAN-2013 13:20

Client ID:

Instrument: BSMSD.i

Sample Info: ICV-1448440

Operator: SCC



Manual Integration Report

Data File: 1DA07010.D
Inj. Date and Time: 07-JAN-2013 13:20
Instrument ID: BSMSD.i
Client ID:
Compound: 12 Carbazole
CAS #: 86-74-8
Report Date: 01/07/2013

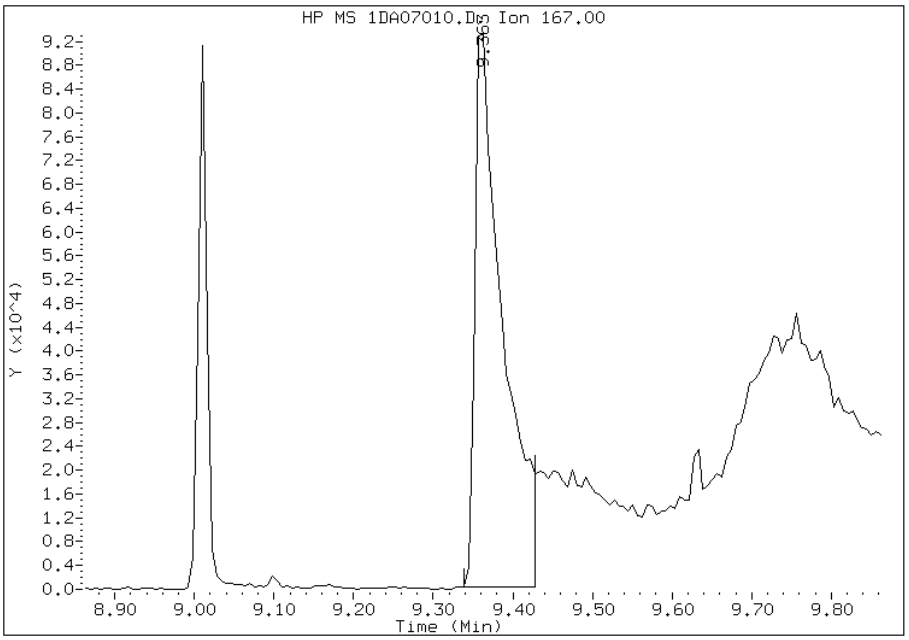
Processing Integration Results

RT: 9.36

Response: 225785

Amount: 3

Conc: 3



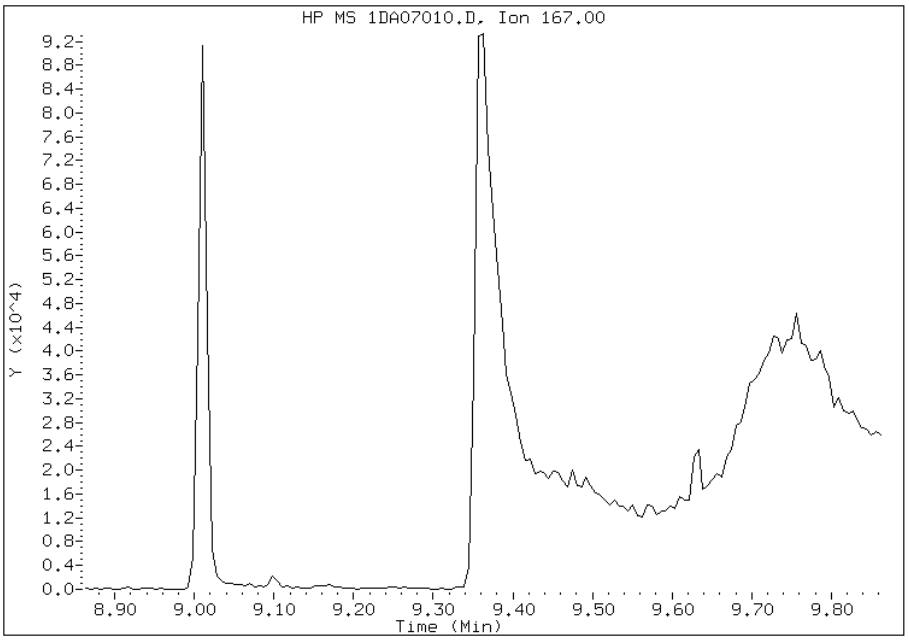
Manual Integration Results

RT: 9.36

Response: 1262422

Amount: 18

Conc: 18



Manually Integrated By: cantins
Modification Date: 07-Jan-2013 13:54
Manual Integration Reason: Baseline Event

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Lab Sample ID: CCVIS 660-134722/3 Calibration Date: 02/21/2013 11:57

Instrument ID: BSMD5973 Calib Start Date: 01/07/2013 10:43

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 12:58

Lab File ID: 1DB21003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.058	1.039	0.0000	19600	20000	-1.8	20.0
2-Methylnaphthalene	Ave	0.6719	0.6709	0.0000	20000	20000	-0.2	20.0
1-Methylnaphthalene	Ave	0.6320	0.6392	0.0000	20200	20000	1.1	20.0
Acenaphthylene	Ave	1.727	1.746	0.0000	20200	20000	1.1	20.0
Acenaphthene	Ave	1.053	1.045	0.0000	19800	20000	-0.8	20.0
Fluorene	Ave	1.251	1.242	0.0000	19900	20000	-0.7	20.0
Phenanthrene	Ave	1.143	1.086	0.0000	19000	20000	-4.9	20.0
Anthracene	Ave	1.120	1.123	0.0000	20100	20000	0.3	20.0
Carbazole	Ave	0.9917	0.9929	0.0000	20000	20000	0.1	20.0
Fluoranthene	Ave	1.145	1.165	0.0000	20400	20000	1.8	20.0
Pyrene	Ave	1.249	1.223	0.0000	19600	20000	-2.1	20.0
Benzo[a]anthracene	Ave	1.170	1.085	0.0000	18500	20000	-7.3	20.0
Chrysene	Ave	1.127	1.084	0.0000	19200	20000	-3.8	20.0
Benzo[b]fluoranthene	Ave	1.015	1.028	0.0000	20300	20000	1.3	20.0
Benzo[k]fluoranthene	Ave	1.073	1.023	0.0000	19100	20000	-4.6	20.0
Benzo[a]pyrene	Ave	1.001	1.017	0.0000	20300	20000	1.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.069	1.077	0.0000	20200	20000	0.8	20.0
Dibenz(a,h)anthracene	Ave	0.9805	0.9932	0.0000	20300	20000	1.3	20.0
Benzo[g,h,i]perylene	Ave	1.022	1.021	0.0000	20000	20000	-0.2	20.0
o-Terphenyl	Ave	0.5939	0.6028	0.0000	20300	20000	1.5	20.0

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 21-FEB-2013 11:57
Operator : SCC Inst ID: BSMSD.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.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/l)	AMOUNTS ON-COL (ug/l)
* 1 Naphthalene-d8	136	6.195	6.195	(1.000)	4805924	40.0000	
* 6 Acenaphthene-d10	164	7.863	7.863	(1.000)	2903448	40.0000	(H)
* 9 Phenanthrene-d10	188	9.127	9.127	(1.000)	4784360	40.0000	(H)
$ 13 o-Terphenyl	230	9.432	9.432	(1.033)	1442052	20.0000	20(H)
* 17 Chrysene-d12	240	11.477	11.477	(1.000)	4876621	40.0000	(H)
* 22 Perylene-d12	264	13.363	13.363	(1.000)	5208006	40.0000	(H)
2 Naphthalene	128	6.212	6.212	(1.003)	2497025	20.0000	20
3 2-Methylnaphthalene	142	6.912	6.912	(1.116)	1612041	20.0000	20
4 1-Methylnaphthalene	142	7.006	7.006	(1.131)	1536031	20.0000	20
5 Acenaphthylene	152	7.734	7.734	(0.984)	2534822	20.0000	20(H)
7 Acenaphthene	154	7.893	7.893	(1.004)	1517271	20.0000	20(H)
8 Fluorene	166	8.333	8.333	(1.060)	1803452	20.0000	20(H)
10 Phenanthrene	178	9.144	9.144	(1.002)	2598687	20.0000	19(H)
11 Anthracene	178	9.185	9.185	(1.006)	2686494	20.0000	20(H)
12 Carbazole	167	9.320	9.320	(1.021)	2375247	20.0000	20
14 Fluoranthene	202	10.125	10.125	(1.109)	2788067	20.0000	20(H)
15 Pyrene	202	10.313	10.313	(0.899)	2981070	20.0000	20(H)
16 Benzo(a)anthracene	228	11.447	11.447	(0.997)	2645607	20.0000	18(H)
18 Chrysene	228	11.500	11.500	(1.002)	2643903	20.0000	19(H)
19 Benzo(b)fluoranthene	252	12.793	12.793	(0.957)	2677570	20.0000	20(H)
20 Benzo(k)fluoranthene	252	12.840	12.840	(0.961)	2664365	20.0000	19(H)
21 Benzo(a)pyrene	252	13.263	13.263	(0.993)	2649110	20.0000	20(H)
23 Indeno(1,2,3-cd)pyrene	276	14.990	14.990	(1.122)	2805307	20.0000	20(H)
24 Dibenzo(a,h)anthracene	278	15.026	15.026	(1.124)	2586333	20.0000	20(H)
25 Benzo(g,h,i)perylene	276	15.460	15.460	(1.157)	2658053	20.0000	20(H)

QC Flag Legend

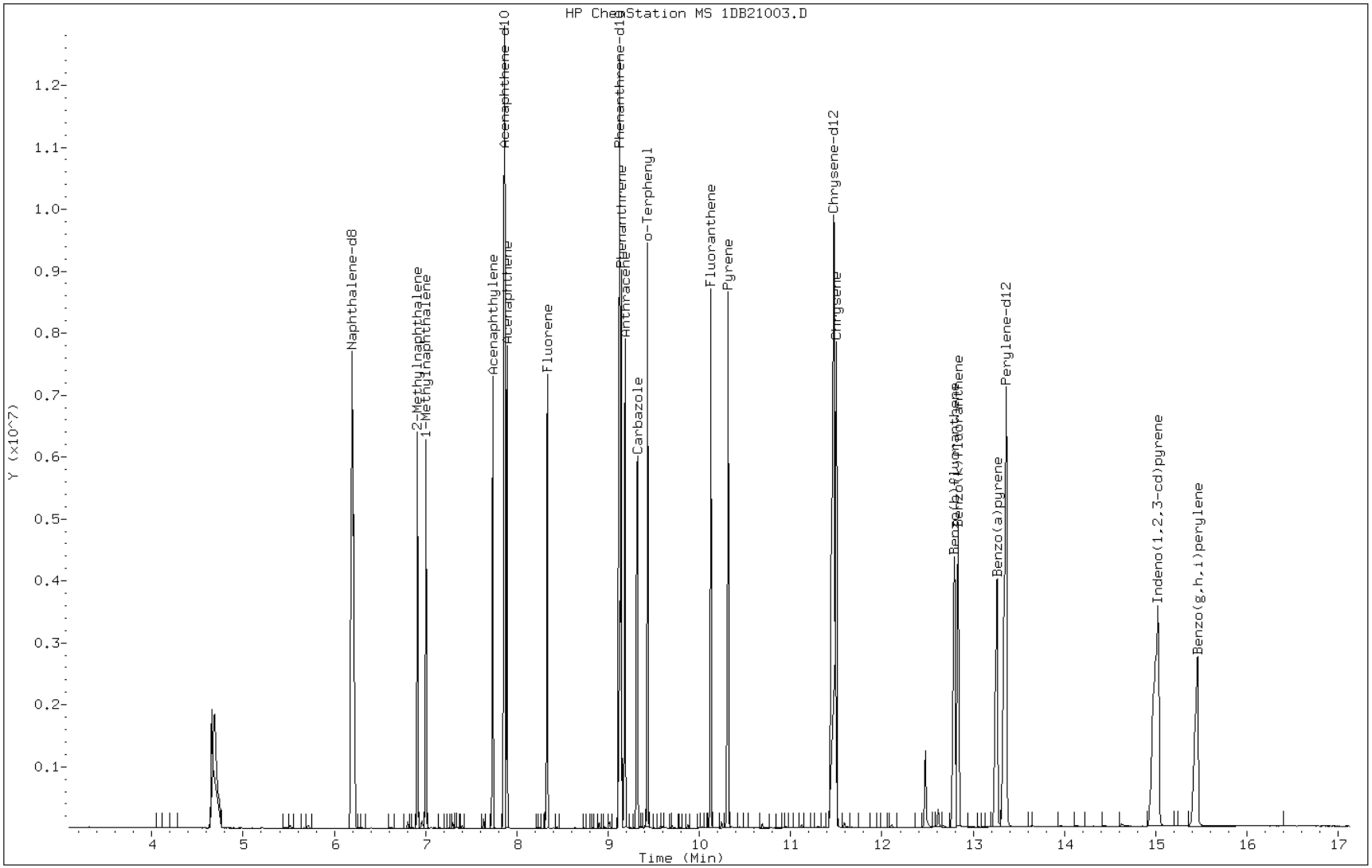
H - Operator selected an alternate compound hit.

Data File: 1DB21003.D

Date: 21-FEB-2013 11:57

Client ID: Instrument: BSMSD.i

Sample Info: CCVIS-1489898 Operator: SCC



TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.b\1AB22002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 22-FEB-2013 10:42
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213.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

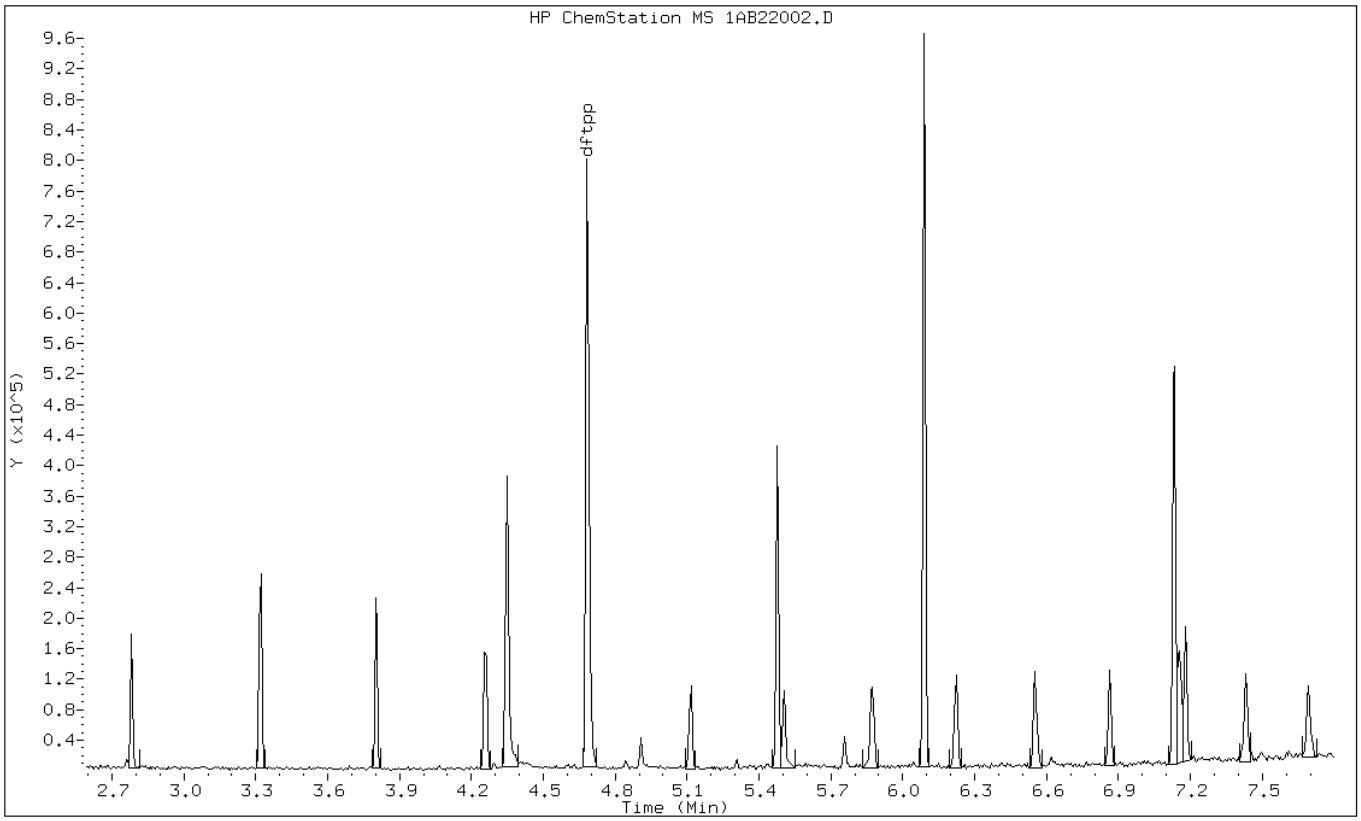
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.683	4.928	-0.245	198	76440			50.00- 0.00	100.00
4.683	4.928	-0.245	51	48552			10.00- 80.00	63.52
4.683	4.928	-0.245	68	695			0.00- 2.00	1.70
4.683	4.928	-0.245	69	40984			0.00- 0.00	53.62
4.683	4.928	-0.245	70	313			0.00- 2.00	0.76
4.683	4.928	-0.245	127	33880			10.00- 80.00	44.32
4.683	4.928	-0.245	197	0	0.0	0.0	0.00- 2.00	0.00
4.683	4.928	-0.245	442	51640			50.00- 0.00	67.56
4.683	4.928	-0.245	199	4343			5.00- 9.00	5.68
4.683	4.928	-0.245	275	19136			10.00- 60.00	25.03
4.683	4.928	-0.245	365	2453			1.00- 0.00	3.21
4.683	4.928	-0.245	441	6484			0.01- 99.99	79.28
4.683	4.928	-0.245	443	8179			15.00- 24.00	15.84

Data File: 1AB22002.D

Date: 22-FEB-2013 10:42

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



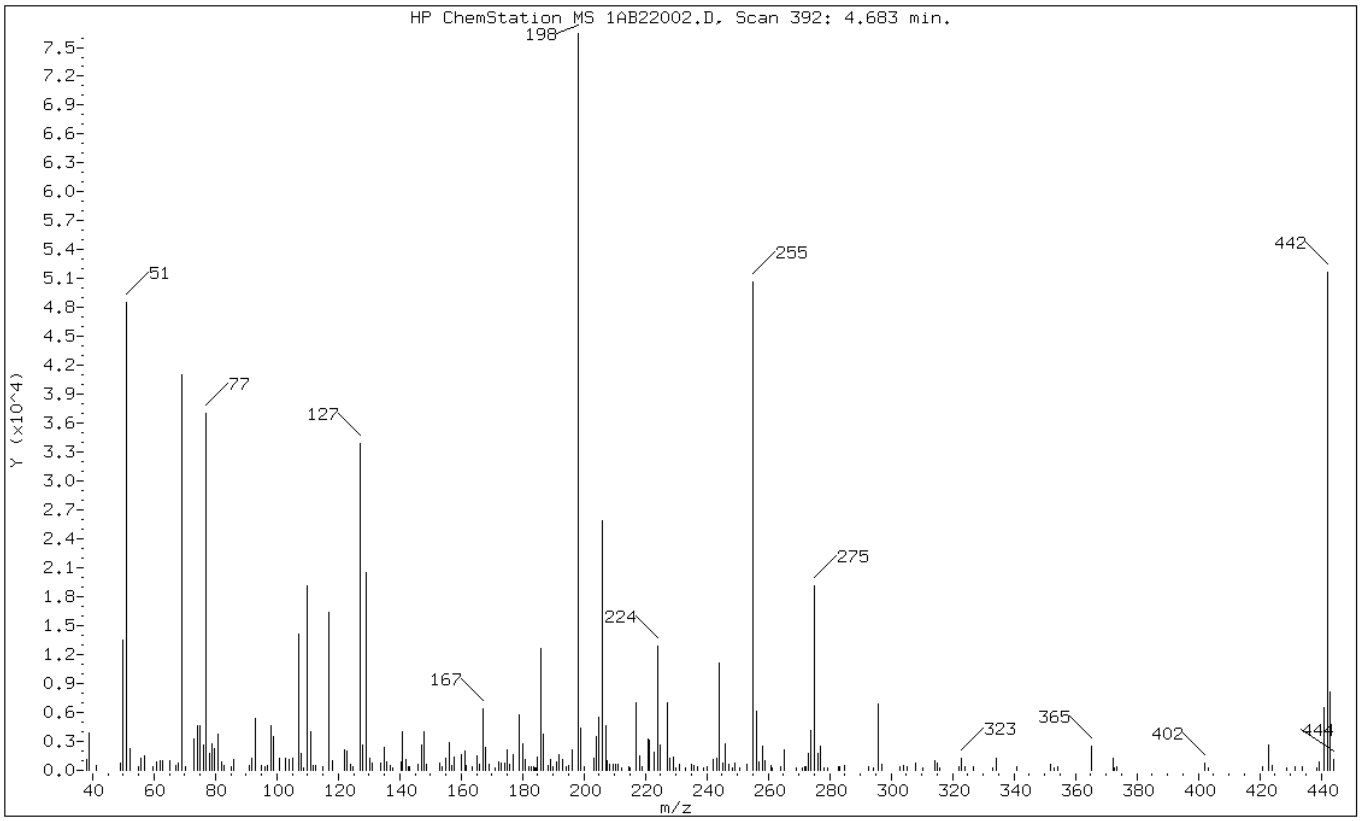
Data File: 1AB22002.D

Date: 22-FEB-2013 10:42

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	63.52
68	Less than 2.00% of mass 69	0.91 (1.70)
69	Mass 69 relative abundance	53.62
70	Less than 2.00% of mass 69	0.41 (0.76)
127	10.00 - 80.00% of mass 198	44.32
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.56
199	5.00 - 9.00% of mass 198	5.68
275	10.00 - 60.00% of mass 198	25.03
365	Greater than 1.00% of mass 198	3.21
441	Present, but less than mass 443	8.48
443	15.00 - 24.00% of mass 442	10.70 (15.84)

Data File: 1AB22002.D

Date: 22-FEB-2013 10:42

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A022213_IC.b\1AB22002.D
Spectrum: HP ChemStation MS 1AB22002.D, Scan 392: 4.683 min.
Location of Maximum: 198.00
Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	1153	127.00	33880	194.20	434	269.20	256
39.00	3901	128.00	2620	195.20	479	271.10	267
41.10	559	129.00	20472	196.00	2162	271.80	321
49.00	742	130.10	1229	198.00	76440	272.30	357
50.00	13495	131.10	707	198.90	4343	273.00	1788
51.10	48552	134.00	733	200.10	313	274.00	4170
52.10	2289	135.00	2429	203.10	1213	275.00	19136
55.10	393	135.90	826	204.10	3455	276.10	1704
55.90	1274	137.00	527	205.00	5534	277.10	2520
57.00	1489	137.80	258	206.00	25944	278.30	253
59.70	351	140.30	859	207.10	4571	279.20	254
61.00	921	141.00	3943	207.70	997	282.80	333
62.00	978	142.10	1176	208.20	617	283.10	392
63.00	1049	142.90	410	209.40	639	285.00	539
65.00	989	143.10	410	210.20	629	292.80	317
67.00	554	146.00	603	211.00	591	294.40	260
67.80	695	147.10	2625	212.10	283	296.00	6928
69.00	40984	148.00	3950	214.50	412	297.10	604
70.10	313	148.80	676	215.20	311	303.00	324
73.10	3244	152.90	760	217.00	6968	304.10	484
74.00	4690	153.80	361	218.10	1521	305.10	409
75.00	4581	155.00	1227	218.80	315	308.10	725
76.10	2591	156.10	2898	221.00	3248	310.20	250
77.10	37072	157.00	445	221.30	3132	314.10	976
78.10	1749	157.90	1331	223.00	1909	315.20	810
78.90	2758	160.00	1611	224.10	12886	316.00	275
79.80	2228	161.10	2037	225.00	2626	322.00	374
81.00	3724	161.80	525	227.00	7049	323.00	1296
82.10	889	163.80	323	227.90	1242	324.20	381
83.00	487	165.00	1535	229.00	1425	326.80	328
85.10	368	166.10	619	230.10	312	333.00	311
86.00	1135	167.00	6330	231.20	601	334.10	1292
91.00	478	168.10	2348	232.90	260	340.90	433
92.00	1243	169.20	579	235.00	643	352.00	686
93.00	5320	171.10	295	236.00	555	353.20	307
95.00	452	172.10	909	236.80	320	354.20	418
96.30	341	173.00	778	239.10	304	365.10	2453
97.10	462	174.10	770	240.10	385	372.30	1226
98.00	4672	175.00	2158	242.00	1100	372.80	254
99.00	3560	175.80	583	243.10	1259	373.40	339

101.00	1215	177.00	1626	244.10	11075	402.00	723
103.00	1200	179.00	5738	245.20	781	403.30	273
104.10	1188	180.10	2793	246.10	2764	421.10	397
105.00	1287	180.90	1134	247.00	596	423.10	2660
107.00	14120	182.10	437	248.30	297	423.90	559
107.90	1762	182.90	346	249.30	777	428.80	261
108.80	304	183.70	418	250.90	273	431.40	365
110.00	19200	184.10	287	253.20	565	433.80	325
111.00	3941	184.30	289	255.10	50672	438.60	291
112.00	530	184.90	1381	256.10	6117	439.20	886
112.60	470	186.00	12633	257.10	937	441.00	6484
115.10	321	186.90	3785	258.10	2516	442.00	51640
117.00	16392	188.20	480	259.00	942	443.00	8179
118.10	945	189.00	1158	260.90	490	444.10	1146
122.00	2165	190.00	413	261.30	276		
122.90	1978	190.90	838	263.90	325		
123.90	580	192.00	1684	264.20	322		
124.80	382	193.10	1067	265.20	2067		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25005.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 25-FEB-2013 14:44
Operator : SCC Inst ID: BSMA5973.i
Smp Info : DFTPP-1465456
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.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

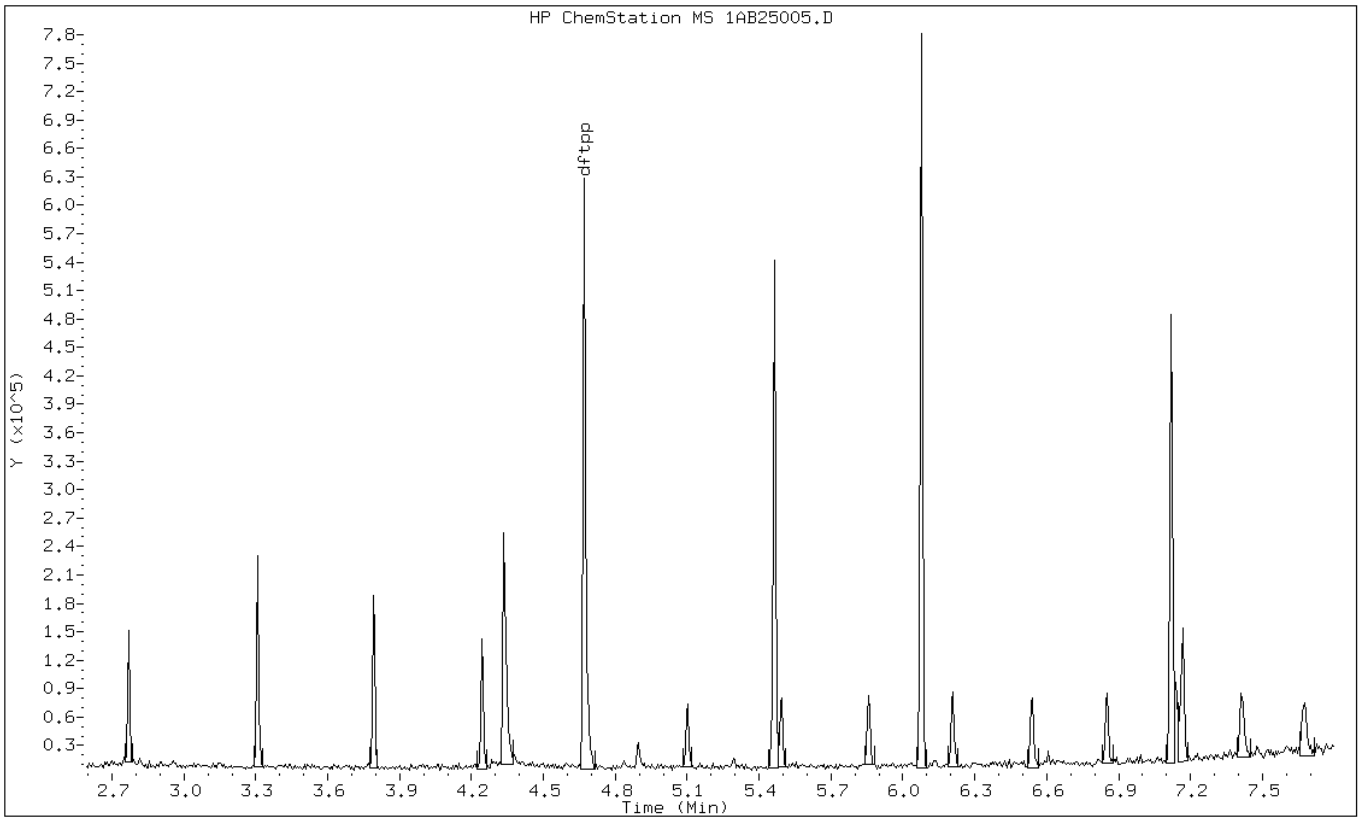
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.672	4.928	-0.256	198	57224			50.00- 0.00	100.00
4.672	4.928	-0.256	51	31544			10.00- 80.00	55.12
4.672	4.928	-0.256	68	0	0.0	0.0	0.00- 2.00	0.00
4.672	4.928	-0.256	69	29928			0.00- 0.00	52.30
4.672	4.928	-0.256	70	275			0.00- 2.00	0.92
4.672	4.928	-0.256	127	28272			10.00- 80.00	49.41
4.672	4.928	-0.256	197	0	0.0	0.0	0.00- 2.00	0.00
4.672	4.928	-0.256	442	39408			50.00- 0.00	68.87
4.672	4.928	-0.256	199	3837			5.00- 9.00	6.71
4.672	4.928	-0.256	275	15808			10.00- 60.00	27.62
4.672	4.928	-0.256	365	2316			1.00- 0.00	4.05
4.672	4.928	-0.256	441	5763			0.01- 99.99	72.55
4.672	4.928	-0.256	443	7944			15.00- 24.00	20.16

Data File: 1AB25005.D

Date: 25-FEB-2013 14:44

Client ID: DFTPP | Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 | Operator: SCC



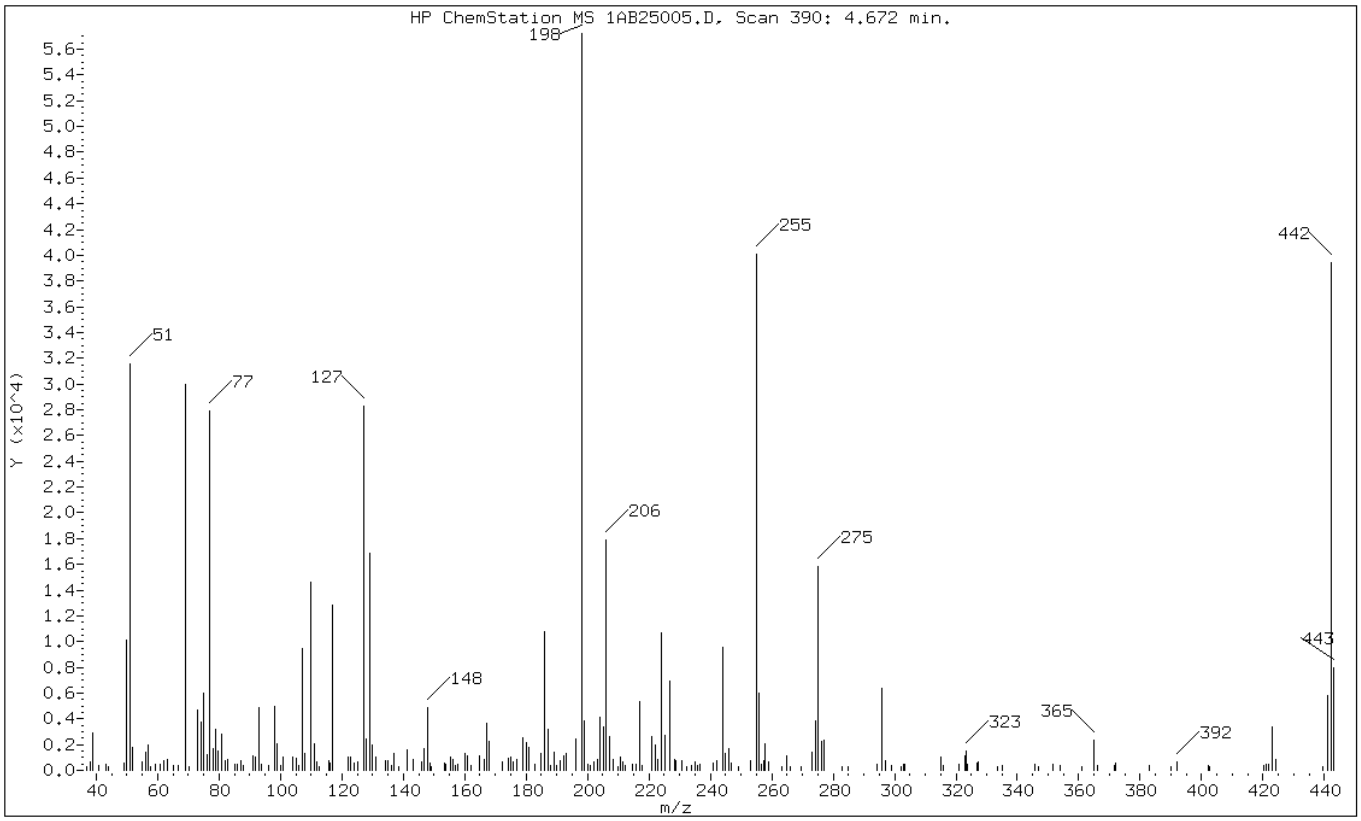
Data File: 1AB25005.D

Date: 25-FEB-2013 14:44

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	55.12
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.30
70	Less than 2.00% of mass 69	0.48 (0.92)
127	10.00 - 80.00% of mass 198	49.41
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	68.87
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	27.62
365	Greater than 1.00% of mass 198	4.05
441	Present, but less than mass 443	10.07
443	15.00 - 24.00% of mass 442	13.88 (20.16)

Data File: 1AB25005.D

Date: 25-FEB-2013 14:44

Client ID: DFTPP Instrument: BSMA5973.i

Sample Info: DFTPP-1465456 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A022513.b\1AB25005.D
Spectrum: HP ChemStation MS 1AB25005.D, Scan 390: 4.672 min.
Location of Maximum: 198.00
Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.90	311	111.00	2038	189.00	1404	263.10	256
38.10	664	111.90	683	189.80	370	265.00	1083
39.00	2936	112.70	304	191.20	771	266.20	258
40.90	396	115.90	752	192.20	1098	269.70	254
43.00	438	116.20	571	193.20	1287	273.10	1375
43.90	318	117.00	12796	196.10	2419	274.10	3854
49.10	540	122.00	1020	198.00	57224	275.10	15808
50.00	10141	123.00	1077	199.00	3837	276.10	2270
51.00	31544	124.10	572	200.10	438	277.00	2354
52.00	1764	125.30	655	201.00	355	283.10	258
55.00	674	127.00	28272	202.10	642	285.00	277
56.00	1377	128.10	2411	203.20	884	294.10	422
56.90	1987	129.00	16840	204.00	4104	296.00	6396
57.80	287	130.00	1939	205.10	3340	296.90	713
59.10	487	130.90	1017	206.10	17912	299.10	333
61.00	492	134.10	786	207.10	2577	302.30	272
62.10	789	134.90	767	208.20	879	303.10	450
63.00	879	136.10	369	210.00	289	303.30	442
65.00	393	137.00	1322	210.90	1073	315.20	1007
66.90	367	138.50	284	211.50	665	315.90	338
69.00	29928	141.10	1633	212.30	372	321.00	454
70.10	275	143.20	864	214.80	452	322.90	1129
73.10	4691	146.10	656	216.00	472	323.20	1477
74.00	3736	146.90	1665	217.00	5319	323.80	464
75.00	6014	148.00	4906	217.90	375	326.90	581
76.10	1240	148.80	540	220.80	2658	327.20	648
77.00	27936	149.30	263	222.10	1988	333.70	320
78.00	1647	153.30	547	222.70	887	335.00	352
79.00	3152	153.90	468	224.10	10664	345.70	463
79.80	1492	155.20	1061	225.10	2761	346.80	254
81.00	2816	156.10	849	227.00	6900	351.70	472
82.00	735	157.10	377	228.20	801	354.10	345
83.00	856	157.90	476	228.80	746	361.00	319
85.00	431	160.00	1329	230.80	772	365.00	2316
85.80	342	160.90	1102	232.20	265	366.10	380
86.10	438	161.90	351	233.80	356	371.40	342
87.00	723	165.00	1120	235.10	688	372.10	538
88.00	417	166.20	879	235.90	352	382.90	347
91.20	1107	167.00	3637	236.60	424	390.10	309
92.00	1019	168.00	2220	241.00	549	391.80	664

93.00	4892	172.20	672	242.00	740	402.10	378
93.80	431	174.10	951	244.10	9522	402.70	262
96.20	375	175.10	1054	245.00	1354	420.20	379
98.00	4977	175.90	672	246.00	1650	421.00	512
99.00	2033	177.00	869	247.00	593	421.90	507
100.20	339	179.00	2572	249.00	276	423.00	3343
101.00	1056	180.10	2145	253.00	752	424.10	864
104.00	1058	181.00	1734	255.00	40064	439.30	262
105.00	891	182.80	470	256.00	5965	441.10	5763
105.90	407	184.90	1276	256.80	493	442.10	39408
107.00	9453	186.10	10731	257.30	757	443.00	7944
107.90	1291	187.10	3193	257.90	2069		
110.00	14597	188.10	387	259.00	643		

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

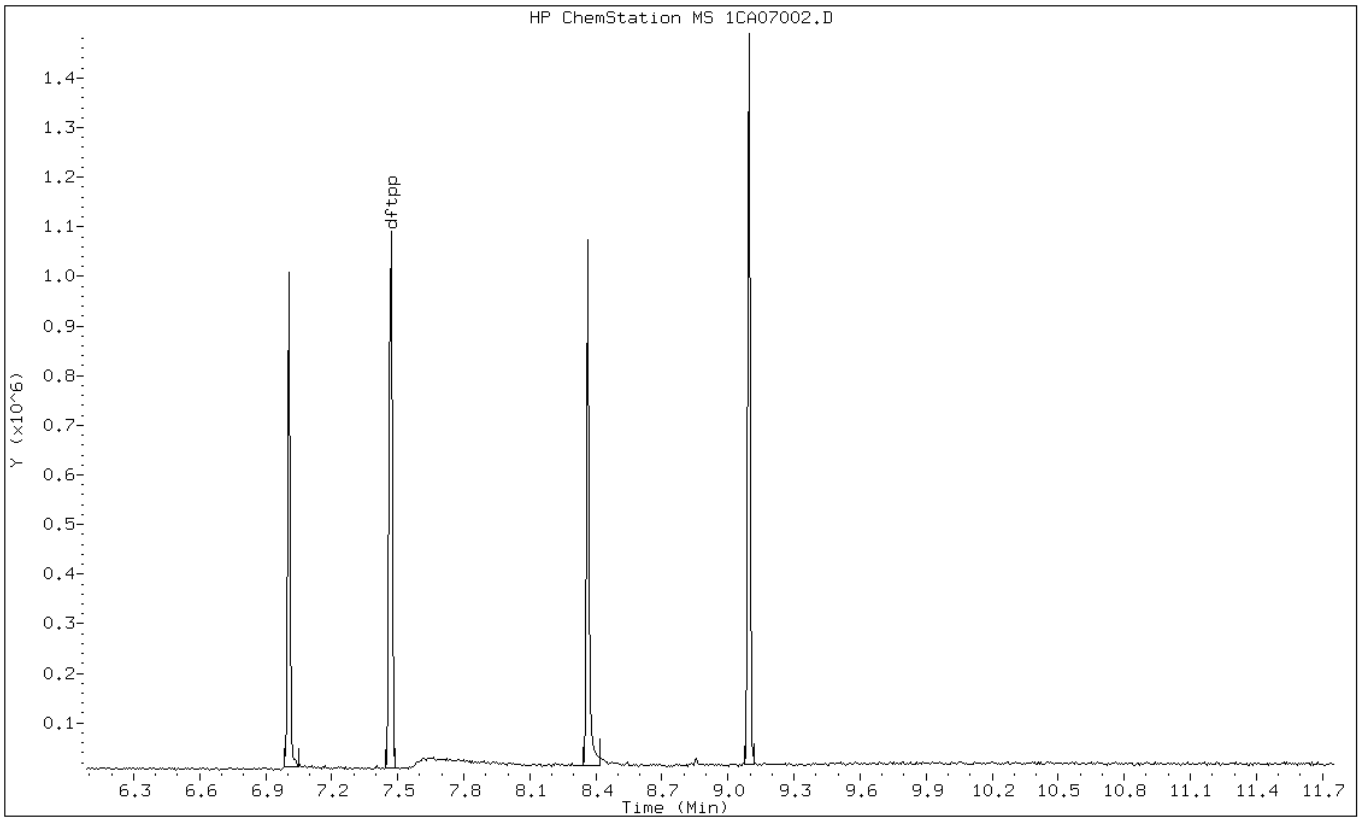
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.469	7.763	-0.294	198	127120			50.00- 0.00	100.00
7.469	7.763	-0.294	51	41280			10.00- 80.00	32.47
7.469	7.763	-0.294	68	533			0.00- 2.00	1.05
7.469	7.763	-0.294	69	50672			0.00- 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



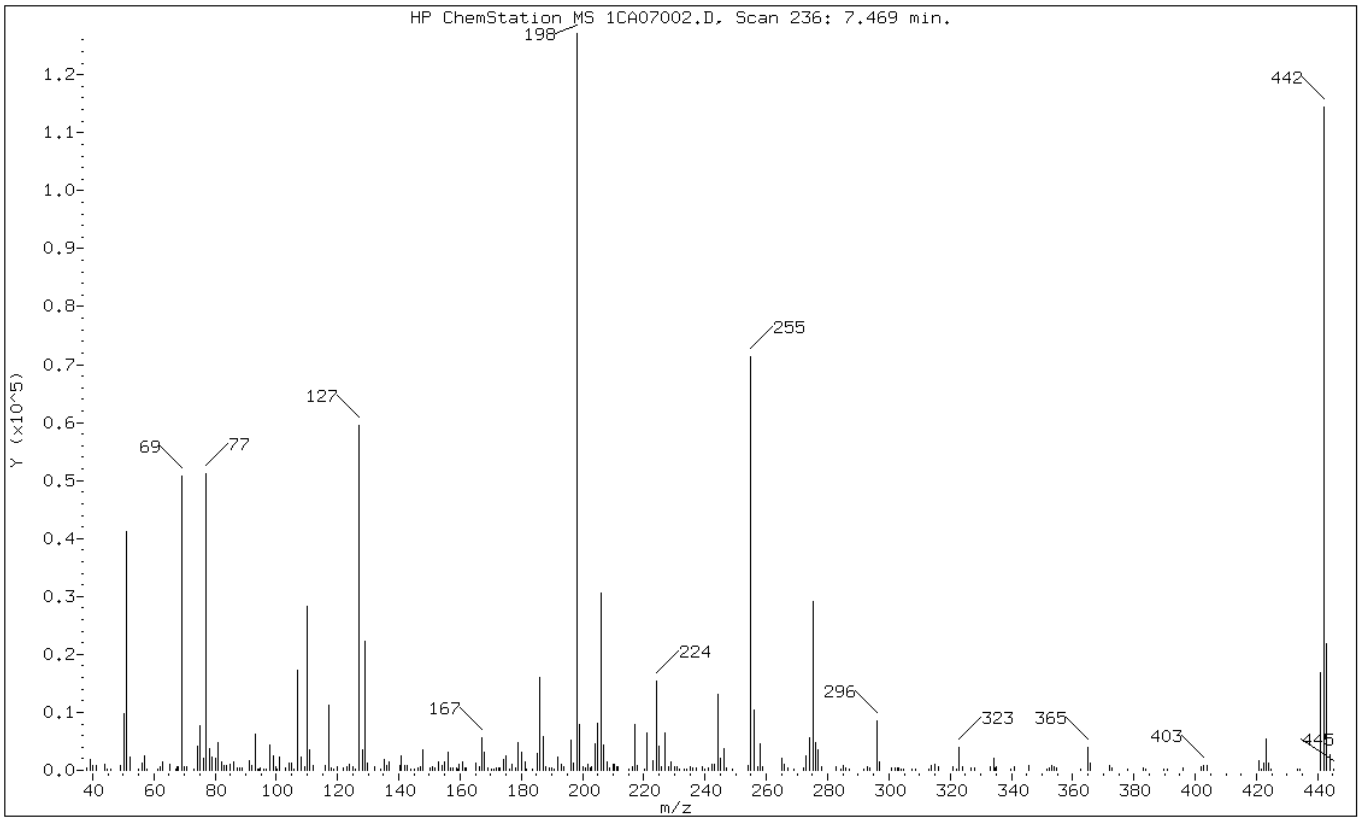
Data File: 1CA07002.D

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	238.90	530	365.90	1347
89.00	333	167.00	5703	239.70	227	372.00	894
91.10	1642	168.00	3193	241.00	373	372.90	491
91.90	746	169.00	422	242.10	1013	378.00	155
93.10	6202	170.10	237	243.10	1025	382.90	344
93.80	300	171.00	275	244.10	13028	383.80	260
94.20	188	171.90	443	245.00	2095	389.90	193
94.80	488	172.80	465	246.00	3792	391.00	205
96.10	190	173.10	403	247.10	451	396.00	313
96.90	185	174.20	1825	249.10	154	402.00	707
98.00	4388	175.10	2490	253.90	895	402.90	932
99.00	2420	176.00	265	255.00	71336	404.00	827
99.70	568	176.80	966	256.00	10460	421.00	1613
100.20	212	178.00	357	257.10	645	421.60	223
101.10	2275	179.00	4862	258.00	4542	422.20	1189
103.00	381	180.10	3189	258.80	695	423.00	5417
104.00	1148	181.10	1541	264.90	2158	424.10	1194
105.00	1192	181.80	286	266.00	1029	424.70	185
105.80	271	183.60	157	267.20	353	433.30	241
107.00	17216	185.10	2863	269.00	264	434.10	201
108.00	2207	186.10	15999	272.10	445	441.00	16880
109.20	723	187.10	5787	273.10	2581	442.00	114480
110.00	28384	188.10	556	274.00	5681	443.00	21920
111.00	3607	189.20	469	275.10	29224	444.00	2789
112.10	771	190.10	335	276.00	4836	445.20	272
116.00	796	190.60	276	277.00	3605		
117.00	11205	192.00	2219	278.10	644		
118.00	466	193.00	1058	282.80	642		
118.90	198	194.00	556	284.50	218		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 21-FEB-2013 11:30
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.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

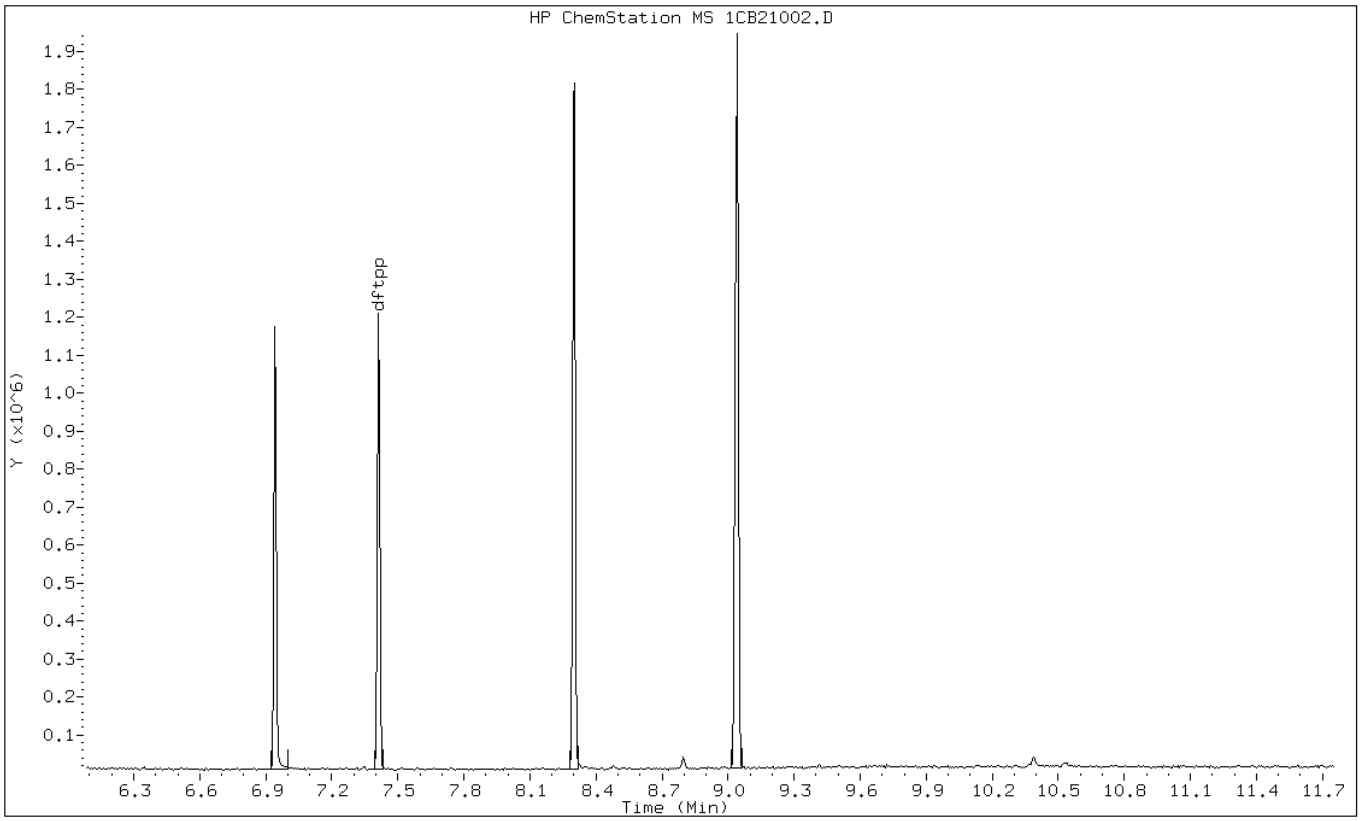
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.410	7.469	-0.059	198	126016			50.00- 0.00	100.00
7.410	7.469	-0.059	51	40084			10.00- 80.00	31.81
7.410	7.469	-0.059	68	894			0.00- 2.00	1.75
7.410	7.469	-0.059	69	51212			0.00- 0.00	40.64
7.410	7.469	-0.059	70	92			0.00- 2.00	0.18
7.410	7.469	-0.059	127	53364			10.00- 80.00	42.35
7.410	7.469	-0.059	197	1064			0.00- 2.00	0.84
7.410	7.469	-0.059	442	118284			50.00- 0.00	93.86
7.410	7.469	-0.059	199	7479			5.00- 9.00	5.93
7.410	7.469	-0.059	275	28392			10.00- 60.00	22.53
7.410	7.469	-0.059	365	4297			1.00- 0.00	3.41
7.410	7.469	-0.059	441	17801			0.01- 99.99	75.00
7.410	7.469	-0.059	443	23736			15.00- 24.00	20.07

Data File: 1CB21002.D

Date: 21-FEB-2013 11:30

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



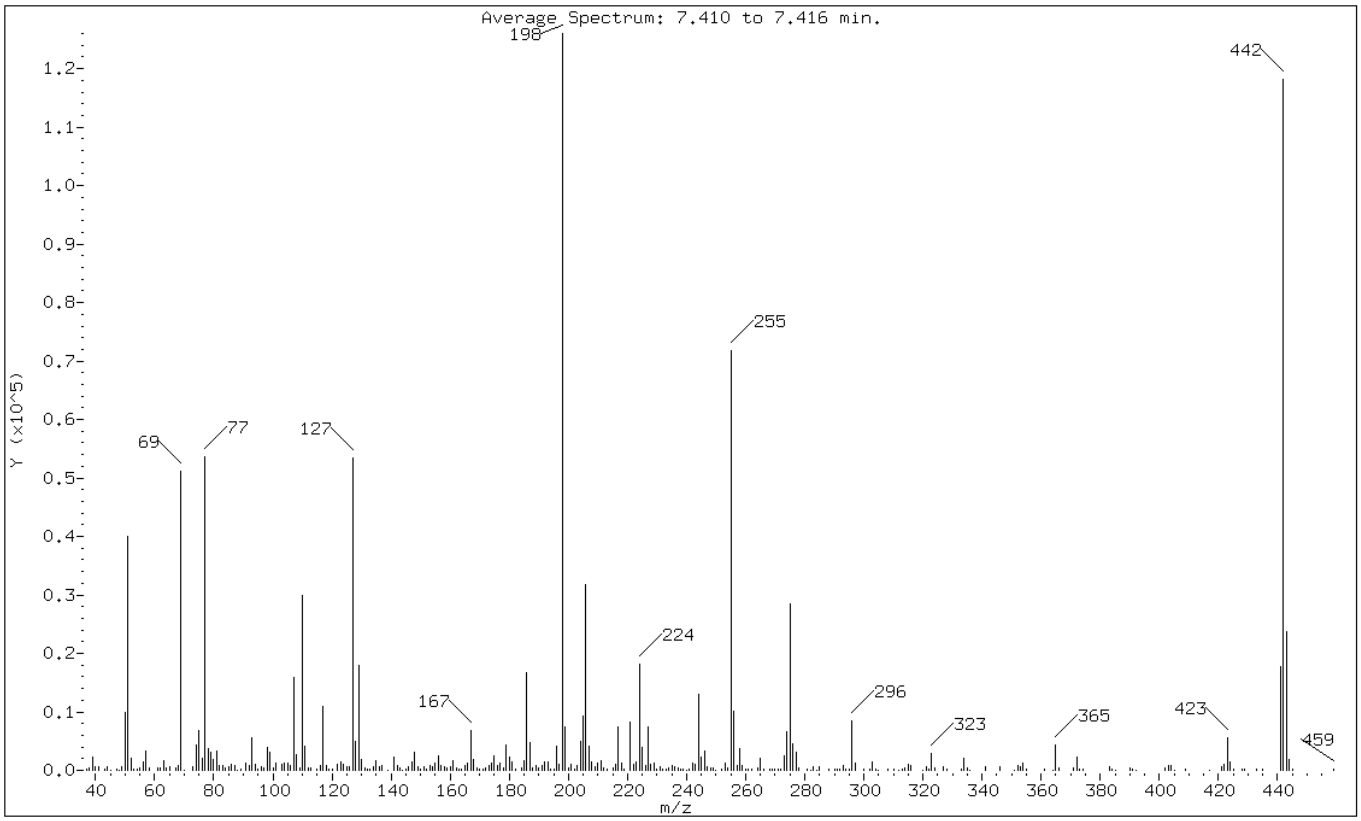
Data File: 1CB21002.D

Date: 21-FEB-2013 11:30

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	31.81
68	Less than 2.00% of mass 69	0.71 (1.75)
69	Mass 69 relative abundance	40.64
70	Less than 2.00% of mass 69	0.07 (0.18)
127	10.00 - 80.00% of mass 198	42.35
197	Less than 2.00% of mass 198	0.84
442	Greater than 50.00% of mass 198	93.86
199	5.00 - 9.00% of mass 198	5.93
275	10.00 - 60.00% of mass 198	22.53
365	Greater than 1.00% of mass 198	3.41
441	Present, but less than mass 443	14.13
443	15.00 - 24.00% of mass 442	18.84 (20.07)

Data File: 1CB21002.D

Date: 21-FEB-2013 11:30

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21002.D
Spectrum: Average Spectrum: 7.410 to 7.416 min.
Location of Maximum: 198.00
Number of points: 302

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	228	124.00	985	203.00	725	288.00	148
38.00	405	125.00	586	204.00	4847	290.00	141
39.00	2259	126.00	591	205.00	9271	291.00	117
40.00	658	127.00	53360	206.00	31832	292.00	124
41.00	540	128.00	5017	207.00	4218	293.00	743
43.00	162	129.00	17960	208.00	1372	294.00	137
44.00	678	130.00	1860	209.00	719	295.00	185
45.00	103	131.00	338	210.00	1214	296.00	8498
47.00	150	132.00	285	211.00	1695	297.00	1187
48.00	77	133.00	267	212.00	330	300.00	112
49.00	705	134.00	700	213.00	226	302.00	237
50.00	9875	135.00	1654	215.00	368	303.00	1483
51.00	40080	136.00	646	216.00	986	304.00	106
52.00	2102	137.00	748	217.00	7445	305.00	84
53.00	241	139.00	88	218.00	1260	308.00	251
54.00	160	141.00	2213	219.00	114	310.00	163
55.00	323	142.00	747	221.00	8332	312.00	76
56.00	1385	143.00	446	222.00	1004	313.00	216
57.00	3309	144.00	75	223.00	1445	314.00	336
58.00	318	145.00	169	224.00	18160	315.00	944
61.00	465	146.00	581	225.00	3993	316.00	829
62.00	413	147.00	1474	226.00	886	320.00	95
63.00	1703	148.00	3098	227.00	7440	321.00	653
64.00	379	149.00	541	228.00	1084	322.00	190
65.00	640	150.00	157	229.00	1258	323.00	2873
67.00	397	151.00	574	230.00	252	324.00	350
68.00	894	152.00	188	231.00	625	327.00	630
69.00	51208	153.00	839	232.00	132	328.00	278
70.00	92	154.00	522	233.00	208	333.00	274
73.00	533	155.00	1317	234.00	412	334.00	1993
74.00	4237	156.00	2552	235.00	768	335.00	462
75.00	6805	157.00	729	236.00	588	336.00	78
76.00	2020	158.00	662	237.00	474	341.00	583
77.00	53584	159.00	355	238.00	252	346.00	702
78.00	3776	160.00	579	239.00	212	351.00	77
79.00	3182	161.00	1716	240.00	85	352.00	924
80.00	1952	162.00	482	241.00	279	353.00	583
81.00	3371	163.00	106	242.00	1188	354.00	1219
82.00	901	164.00	192	243.00	970	355.00	168
83.00	815	165.00	754	244.00	13010	361.00	231

84.00	473	166.00	1194	245.00	2319	364.00	84
85.00	560	167.00	6755	246.00	3295	365.00	4297
86.00	1106	168.00	1943	247.00	579	366.00	461
87.00	764	169.00	454	248.00	340	371.00	398
88.00	75	170.00	170	249.00	450	372.00	2217
89.00	139	171.00	282	250.00	86	373.00	277
91.00	1298	172.00	499	252.00	291	374.00	180
92.00	926	173.00	759	253.00	1179	383.00	667
93.00	5605	174.00	1136	254.00	410	384.00	308
94.00	930	175.00	2388	255.00	71784	385.00	90
95.00	215	176.00	746	256.00	10047	390.00	490
96.00	564	177.00	1322	257.00	910	391.00	276
97.00	399	178.00	486	258.00	3773	392.00	82
98.00	3936	179.00	4430	259.00	892	402.00	423
99.00	3153	180.00	2270	260.00	224	403.00	830
100.00	312	181.00	1349	261.00	136	404.00	758
101.00	1274	182.00	266	262.00	113	405.00	98
103.00	1125	184.00	365	264.00	312	409.00	153
104.00	1327	185.00	1602	265.00	2117	417.00	102
105.00	1138	186.00	16784	266.00	148	421.00	697
106.00	773	187.00	4730	268.00	128	422.00	1123
107.00	15852	188.00	323	269.00	123	423.00	5526
108.00	2625	189.00	894	270.00	192	424.00	1485
109.00	443	190.00	363	271.00	205	425.00	108
110.00	29824	191.00	870	272.00	223	428.00	123
111.00	4086	192.00	1545	273.00	2468	429.00	159
112.00	398	193.00	1464	274.00	6539	433.00	119
113.00	341	194.00	277	275.00	28392	435.00	120
115.00	225	195.00	169	276.00	4484	441.00	17800
116.00	768	196.00	4065	277.00	3186	442.00	118280
117.00	10995	197.00	1064	278.00	373	443.00	23736
118.00	815	198.00	126016	281.00	125	444.00	1792
119.00	269	199.00	7479	282.00	99	445.00	193
120.00	148	200.00	494	283.00	711	459.00	145
122.00	1069	201.00	1021	284.00	91		
123.00	1450	202.00	151	285.00	589		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713_pahIC.b\1DA07002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JAN-2013 09:59
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D010713_pahIC.b\d-dftpp198.m
Meth Date : 10-Feb-2013 14:41 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

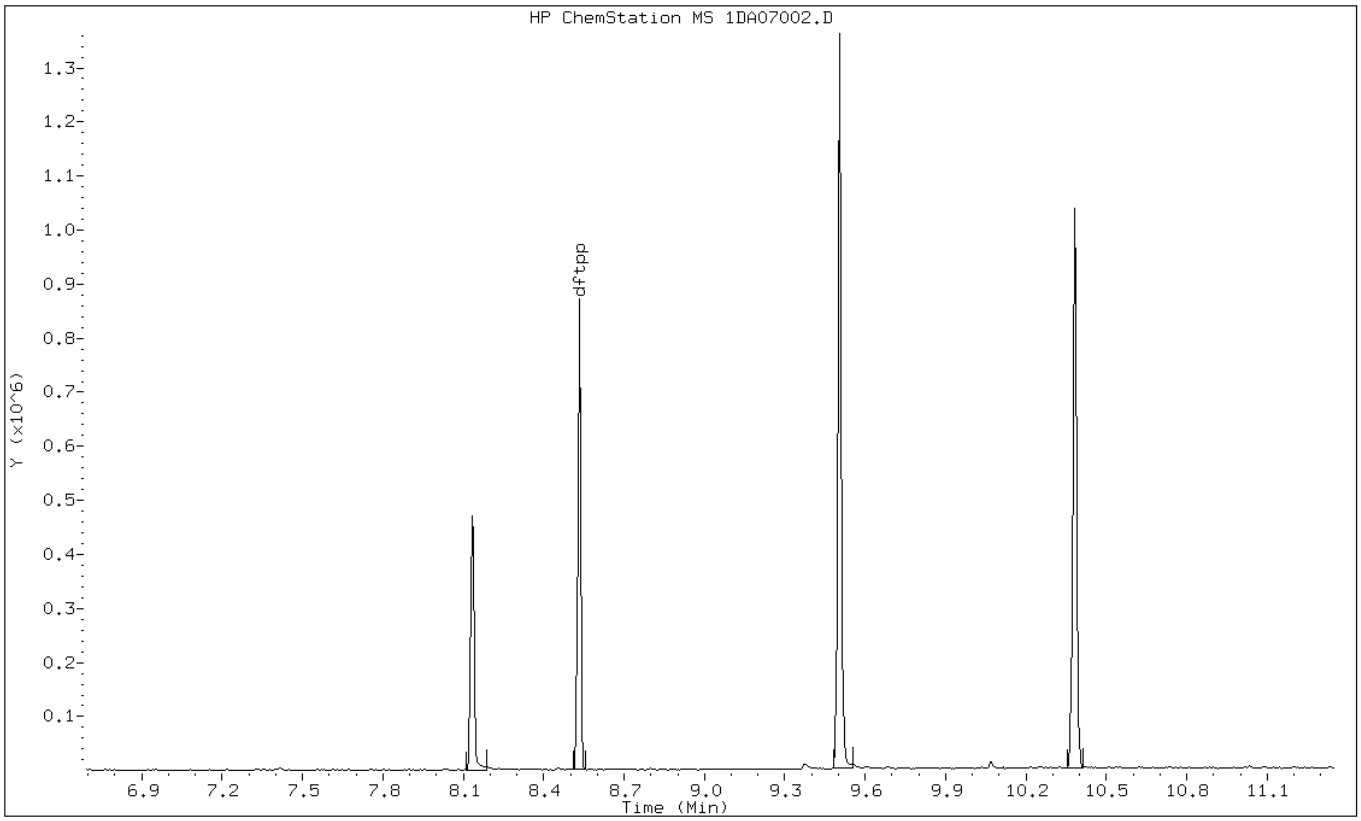
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.532	8.532	0.000	198	76044			50.00- 0.00	100.00
8.532	8.532	0.000	51	33648			10.00- 80.00	44.25
8.532	8.532	0.000	68	0	0.0	0.0	0.00- 2.00	0.00
8.532	8.532	0.000	69	35552			0.00- 0.00	46.75
8.532	8.532	0.000	70	0	0.0	0.0	0.00- 2.00	0.00
8.532	8.532	0.000	127	38568			10.00- 80.00	50.72
8.532	8.532	0.000	197	0	0.0	0.0	0.00- 2.00	0.00
8.532	8.532	0.000	442	51432			50.00- 0.00	67.63
8.532	8.532	0.000	199	4918			5.00- 9.00	6.47
8.532	8.532	0.000	275	19106			10.00- 60.00	25.12
8.532	8.532	0.000	365	2101			1.00- 0.00	2.76
8.532	8.532	0.000	441	1602			0.01- 99.99	15.46
8.532	8.532	0.000	443	10363			15.00- 24.00	20.15

Data File: 1DA07002.D

Date: 07-JAN-2013 09:59

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1490607 | Operator: SCC



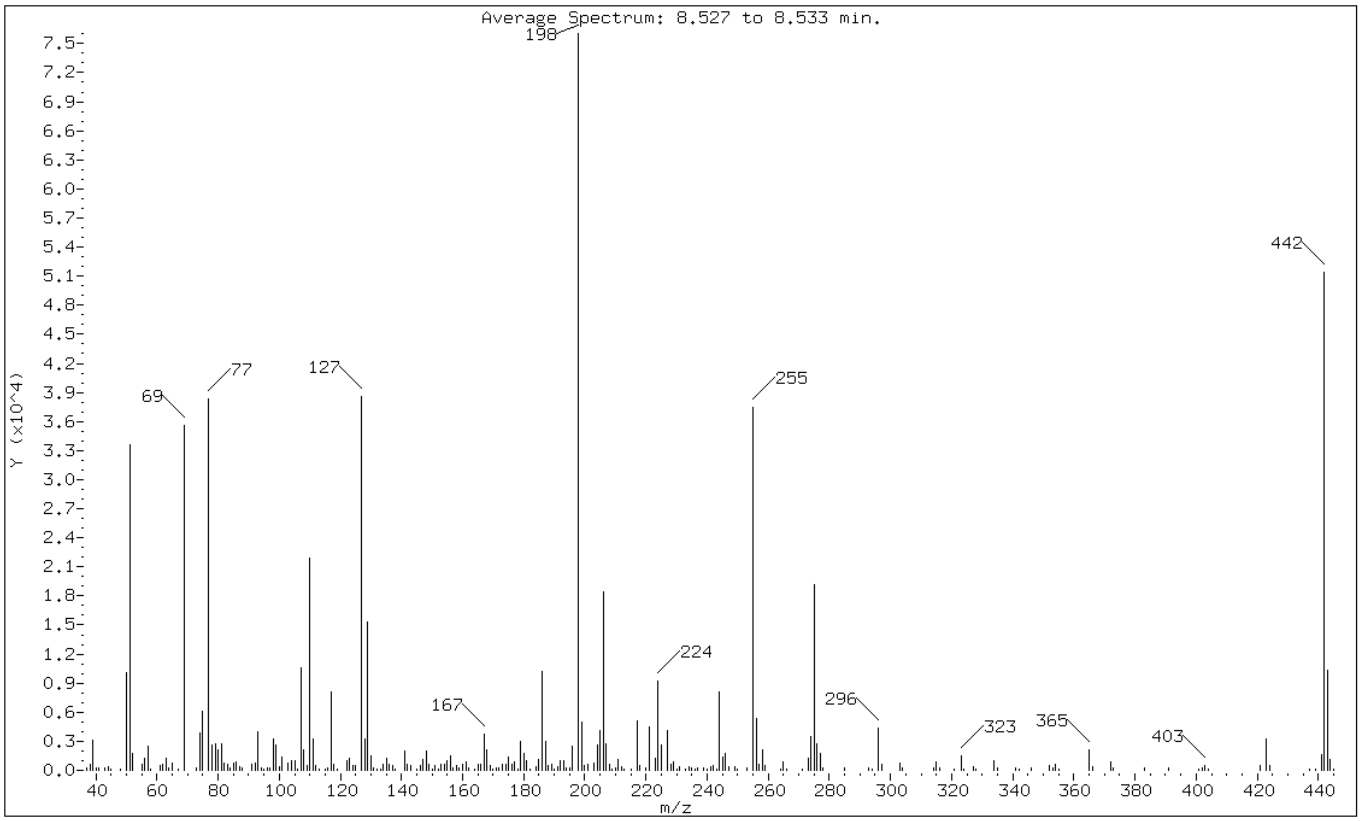
Data File: 1DA07002.D

Date: 07-JAN-2013 09:59

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	44.25
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.75
70	Less than 2.00% of mass 69	0.00 (0.00)
127	10.00 - 80.00% of mass 198	50.72
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	67.63
199	5.00 - 9.00% of mass 198	6.47
275	10.00 - 60.00% of mass 198	25.12
365	Greater than 1.00% of mass 198	2.76
441	Present, but less than mass 443	2.11
443	15.00 - 24.00% of mass 442	13.63 (20.15)

Data File: 1DA07002.D

Date: 07-JAN-2013 09:59

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D010713_pahIC.b\1DA07002.D
Spectrum: Average Spectrum: 8.527 to 8.533 min.
Location of Maximum: 198.00
Number of points: 238

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	193	115.00	96	182.00	134	256.00	5388
38.00	667	116.00	267	184.00	364	257.00	640
39.00	3097	117.00	8050	185.00	1115	258.00	2094
40.00	299	118.00	620	186.00	10239	259.00	466
41.00	270	119.00	184	187.00	3019	264.00	96
43.00	202	122.00	1017	188.00	462	265.00	872
44.00	334	123.00	1287	189.00	671	266.00	122
45.00	82	124.00	547	190.00	171	271.00	92
48.00	84	125.00	499	191.00	375	273.00	1305
50.00	10020	127.00	38568	192.00	938	274.00	3471
51.00	33648	128.00	3286	193.00	1032	275.00	19104
52.00	1696	129.00	15349	194.00	255	276.00	2787
55.00	593	130.00	1488	195.00	240	277.00	1779
56.00	1215	131.00	251	196.00	2499	278.00	194
57.00	2437	132.00	162	198.00	76040	285.00	251
58.00	99	133.00	113	199.00	4918	293.00	299
61.00	443	134.00	565	200.00	538	294.00	108
62.00	600	135.00	1226	201.00	563	296.00	4384
63.00	1245	136.00	640	203.00	699	297.00	605
64.00	235	137.00	508	204.00	2621	303.00	709
65.00	751	138.00	159	205.00	4100	304.00	189
67.00	82	141.00	2038	206.00	18360	314.00	255
69.00	35552	142.00	650	207.00	2738	315.00	853
73.00	234	143.00	515	208.00	676	316.00	209
74.00	3800	145.00	107	209.00	112	321.00	87
75.00	6072	146.00	446	210.00	236	323.00	1527
77.00	38280	147.00	1143	211.00	1119	324.00	166
78.00	2579	148.00	2041	212.00	325	327.00	382
79.00	2676	149.00	596	213.00	84	328.00	108
80.00	2055	150.00	154	215.00	133	334.00	995
81.00	2799	151.00	525	217.00	5131	335.00	255
82.00	702	152.00	95	218.00	541	341.00	187
83.00	647	153.00	643	220.00	237	342.00	94
84.00	290	154.00	562	221.00	4495	346.00	223
85.00	764	155.00	1000	223.00	1254	352.00	508
86.00	924	156.00	1517	224.00	9148	353.00	211
87.00	368	157.00	298	225.00	2568	354.00	578
88.00	205	158.00	442	227.00	4080	355.00	107
91.00	673	159.00	277	228.00	593	365.00	2101
92.00	770	160.00	659	229.00	894	366.00	316

93.00	4016	161.00	871
94.00	278	162.00	249
95.00	96	164.00	116
96.00	226	165.00	674
97.00	212	166.00	580
98.00	3186	167.00	3751
99.00	2575	168.00	2103
100.00	346	169.00	514
101.00	1391	170.00	106
103.00	718	171.00	241
104.00	949	172.00	311
105.00	1006	173.00	659
106.00	181	174.00	566
107.00	10630	175.00	1332
108.00	2064	176.00	581
109.00	444	177.00	901
110.00	21880	178.00	90
111.00	3177	179.00	2954
112.00	466	180.00	1697
113.00	77	181.00	938

230.00	81	372.00	870
231.00	424	373.00	252
233.00	79	383.00	288
234.00	369	391.00	200
235.00	302	401.00	118
236.00	123	402.00	290
237.00	231	403.00	514
239.00	213	404.00	154
240.00	105	421.00	541
241.00	360	423.00	3193
242.00	508	424.00	520
243.00	141	437.00	81
244.00	8082	439.00	114
245.00	1344	441.00	1602
246.00	1740	442.00	51432
247.00	428	443.00	10363
249.00	351	444.00	1152
250.00	80	445.00	80
253.00	229		
255.00	37424		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 21-FEB-2013 11:40
Operator : SCC Inst ID: BSMSD.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\d-dftpp198.m
Meth Date : 10-Feb-2013 14:41 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

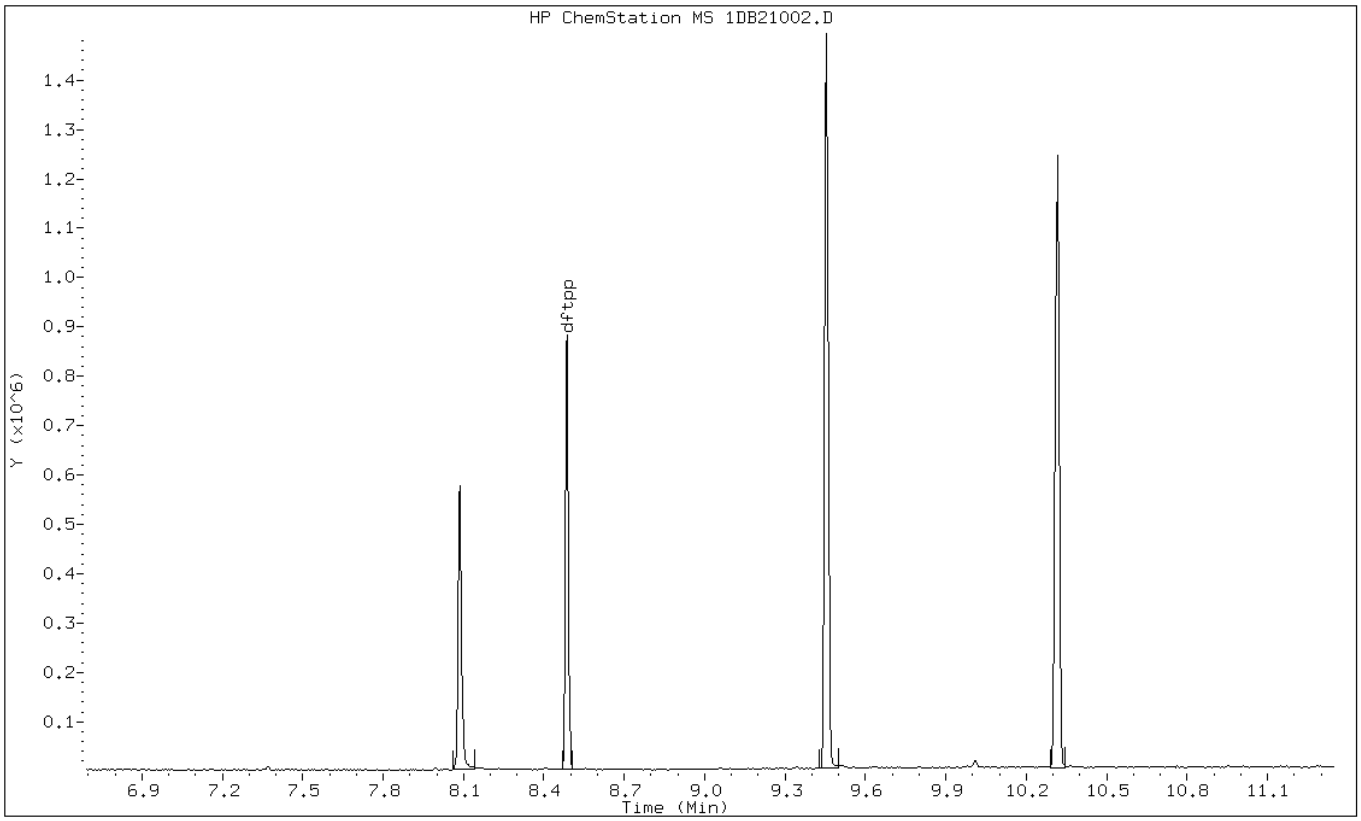
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
8.488	8.532	-0.044	198	95888			50.00- 0.00	100.00
8.488	8.532	-0.044	51	46192			10.00- 80.00	48.17
8.488	8.532	-0.044	68	0	0.0	0.0	0.00- 2.00	0.00
8.488	8.532	-0.044	69	47688			0.00- 0.00	49.73
8.488	8.532	-0.044	70	315			0.00- 2.00	0.66
8.488	8.532	-0.044	127	50616			10.00- 80.00	52.79
8.488	8.532	-0.044	197	0	0.0	0.0	0.00- 2.00	0.00
8.488	8.532	-0.044	442	58584			50.00- 0.00	61.10
8.488	8.532	-0.044	199	6310			5.00- 9.00	6.58
8.488	8.532	-0.044	275	23920			10.00- 60.00	24.95
8.488	8.532	-0.044	365	2384			1.00- 0.00	2.49
8.488	8.532	-0.044	441	9256			0.01- 99.99	82.71
8.488	8.532	-0.044	443	11191			15.00- 24.00	19.10

Data File: 1DB21002.D

Date: 21-FEB-2013 11:40

Client ID: DFTPP | Instrument: BSMSD.i

Sample Info: DFTPP-1490607 | Operator: SCC



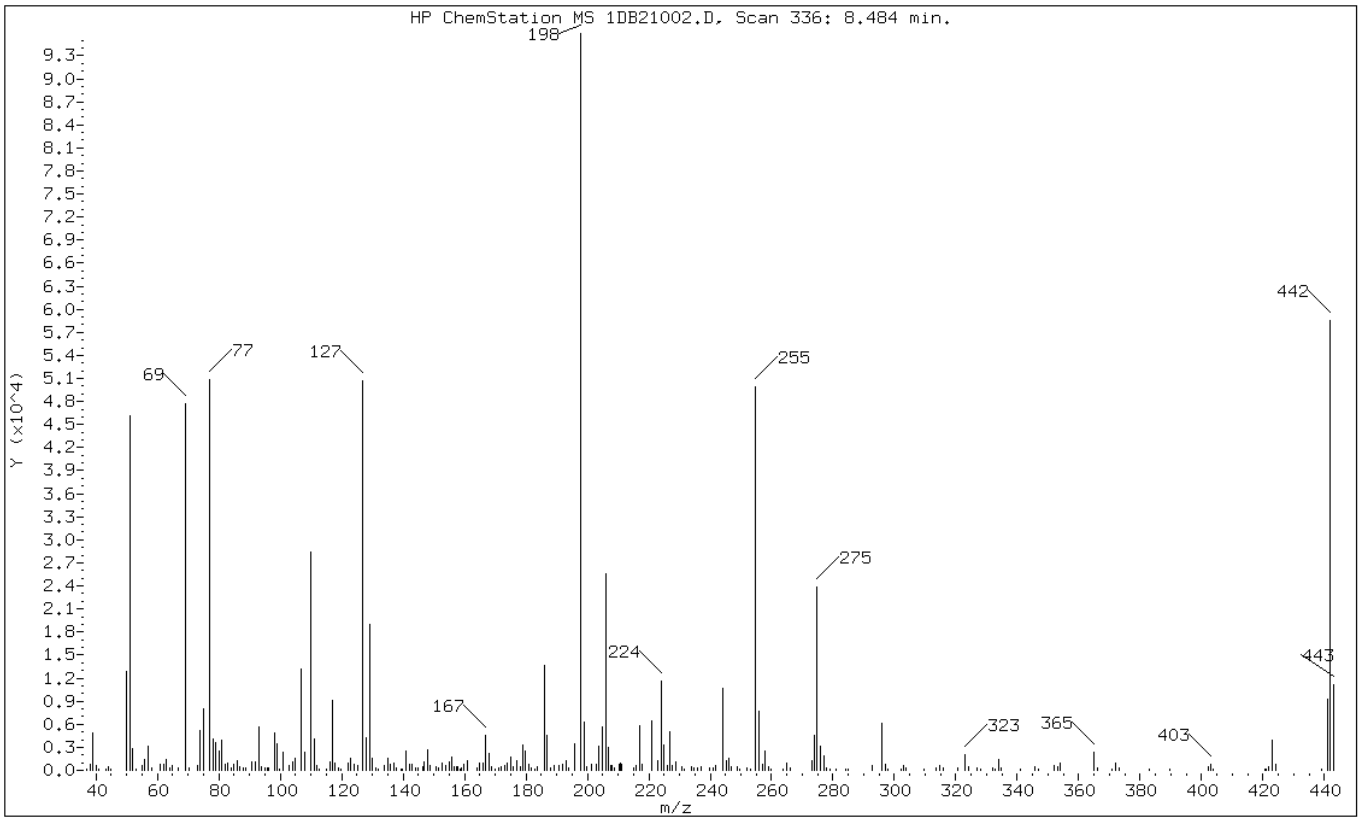
Data File: 1DB21002.D

Date: 21-FEB-2013 11:40

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	48.17
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	49.73
70	Less than 2.00% of mass 69	0.33 (0.66)
127	10.00 - 80.00% of mass 198	52.79
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	61.10
199	5.00 - 9.00% of mass 198	6.58
275	10.00 - 60.00% of mass 198	24.95
365	Greater than 1.00% of mass 198	2.49
441	Present, but less than mass 443	9.65
443	15.00 - 24.00% of mass 442	11.67 (19.10)

Data File: 1DB21002.D

Date: 21-FEB-2013 11:40

Client ID: DFTPP Instrument: BSMSD.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21002.D
Spectrum: HP ChemStation MS 1DB21002.D, Scan 336: 8.484 min.
Location of Maximum: 197.90
Number of points: 244

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	201	116.90	9139	182.90	185	264.90	962
38.10	803	117.90	877	183.90	456	265.90	321
39.00	4823	118.90	272	186.00	13707	273.00	1239
40.00	556	119.80	205	186.90	4502	273.90	4577
41.10	207	122.00	913	188.10	304	274.90	23920
43.10	180	123.00	1572	189.10	701	276.00	3208
44.00	427	124.00	760	190.90	605	276.90	1821
44.90	174	125.10	697	191.90	762	277.90	375
50.10	12856	127.00	50616	193.20	1251	279.00	188
51.00	46192	127.90	4309	194.00	304	281.00	218
52.00	2875	129.00	18960	196.00	3391	284.00	155
53.00	165	129.90	1585	197.90	95888	284.90	178
55.00	626	131.00	257	198.90	6310	292.90	592
56.00	1455	132.10	151	199.90	517	295.90	6099
57.00	3179	134.00	563	201.40	745	297.10	764
58.00	297	134.90	1647	202.90	733	297.90	214
61.00	714	136.00	790	203.90	3095	302.10	169
62.00	729	137.10	893	204.90	5619	303.00	706
63.00	1392	137.80	321	206.00	25552	303.90	391
64.00	253	139.20	215	207.00	3056	309.80	158
65.00	621	139.80	216	207.80	602	313.70	240
67.00	298	140.90	2563	208.10	593	314.90	648
69.00	47688	142.00	740	208.90	304	316.00	282
70.20	315	142.90	766	210.20	709	320.80	275
73.10	673	144.00	265	210.80	885	322.90	2098
74.00	5216	145.00	333	211.20	760	324.00	429
75.00	7999	146.30	419	214.90	378	326.90	365
77.00	50784	147.00	1111	215.90	649	328.10	170
78.00	4094	148.00	2710	216.90	5750	332.10	254
79.00	3665	148.90	669	217.90	767	332.60	216
80.00	2577	150.90	418	220.90	6411	334.00	1455
81.00	3990	151.50	367	222.90	1287	334.90	387
82.00	798	152.90	953	224.00	11667	341.00	204
82.90	968	153.90	600	225.00	3370	345.90	462
83.90	270	154.90	1140	225.90	635	347.00	152
84.90	771	156.00	1804	226.90	4999	352.00	669
86.00	1186	156.80	525	227.80	665	353.00	525
86.90	424	157.40	404	229.00	1154	353.90	909
88.10	350	157.90	534	230.90	450	364.90	2384
88.90	252	158.50	170	231.70	160	366.10	367

90.90	1080	159.10	264	233.90	407	370.80	186
91.90	1056	159.90	816	234.80	352	372.00	998
93.00	5683	161.00	1266	235.90	281	373.00	391
93.80	484	163.90	266	236.90	420	382.80	151
95.00	258	165.00	977	239.90	243	389.80	234
95.90	249	165.90	910	240.90	377	402.10	448
96.10	241	167.00	4533	241.90	656	402.90	834
98.00	4879	167.90	2225	244.00	10634	403.90	191
99.00	3465	168.90	524	245.10	1232	420.70	209
99.90	228	170.00	228	246.00	1631	421.00	223
101.00	2380	171.10	347	246.90	425	421.20	233
102.90	642	172.00	464	248.90	514	421.90	411
103.90	1066	173.00	619	249.70	210	423.00	3986
105.00	1530	173.90	942	252.10	236	424.00	783
106.90	13221	174.90	1730	253.00	212	439.00	225
108.00	2411	175.90	522	254.90	49928	441.00	9256
109.90	28480	176.90	1199	256.00	7704	442.00	58584
111.00	4134	178.10	436	257.00	798	443.00	11191
111.80	556	178.90	3328	258.00	2571		
112.70	185	179.90	2512	259.10	503		
114.90	227	181.00	748	259.80	180		
116.10	1028	181.90	299	263.60	211		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: | Lab Sample ID: MB 660-134668/1-A

Matrix: Solid | Lab File ID: 1CB21005.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 14.93(g) | Date Analyzed: 02/21/2013 12:24

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

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

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

Analysis Batch No.: 134719 | Units: ug/Kg

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	100		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21005.D
Lab Smp Id: mb 660-134668/1-a
Inj Date : 21-FEB-2013 12:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134668/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Concentration Formula:
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	14.930	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

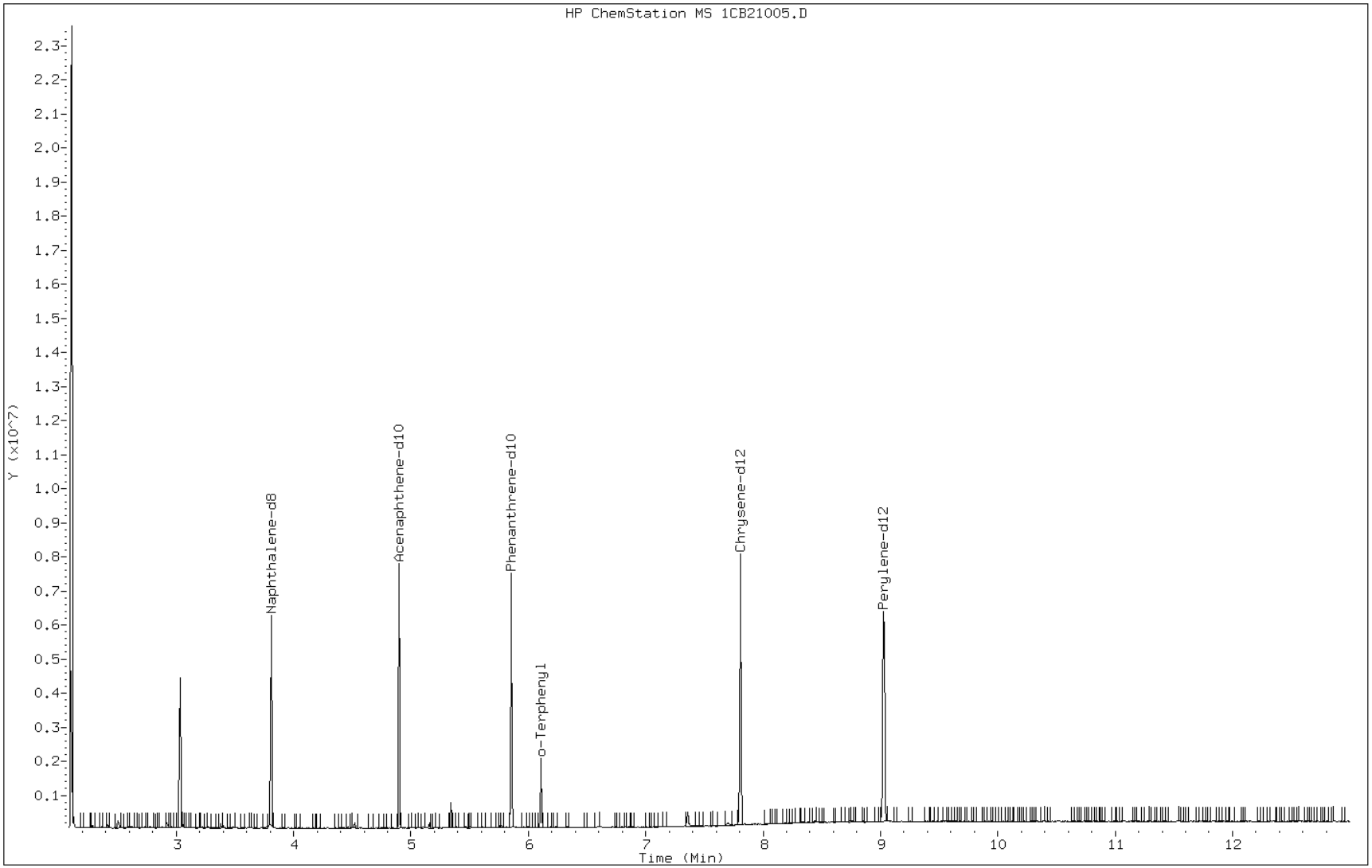
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	1403372	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1052948	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2058614	40.0000	
$ 14 o-Terphenyl	230	6.109	6.109	(1.043)	301166	9.98449	668.7532
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2470657	40.0000	
* 23 Perylene-d12	264	9.027	9.039	(1.000)	2521551	40.0000	

Data File: 1CB21005.D

Date: 21-FEB-2013 12:24

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134668/1-a Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: | Lab Sample ID: MB 660-134677/1-A

Matrix: Solid | Lab File ID: 1DB21023.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.21(g) | Date Analyzed: 02/21/2013 19:28

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.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	99	U	99	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	3.6
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	90		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21023.D
Lab Smp Id: MB 660-134677/1-A
Inj Date : 21-FEB-2013 19:28
Operator : SCC Inst ID: BSMSD.i
Smp Info : MB 660-134677/1-A
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 23 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	15.210	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

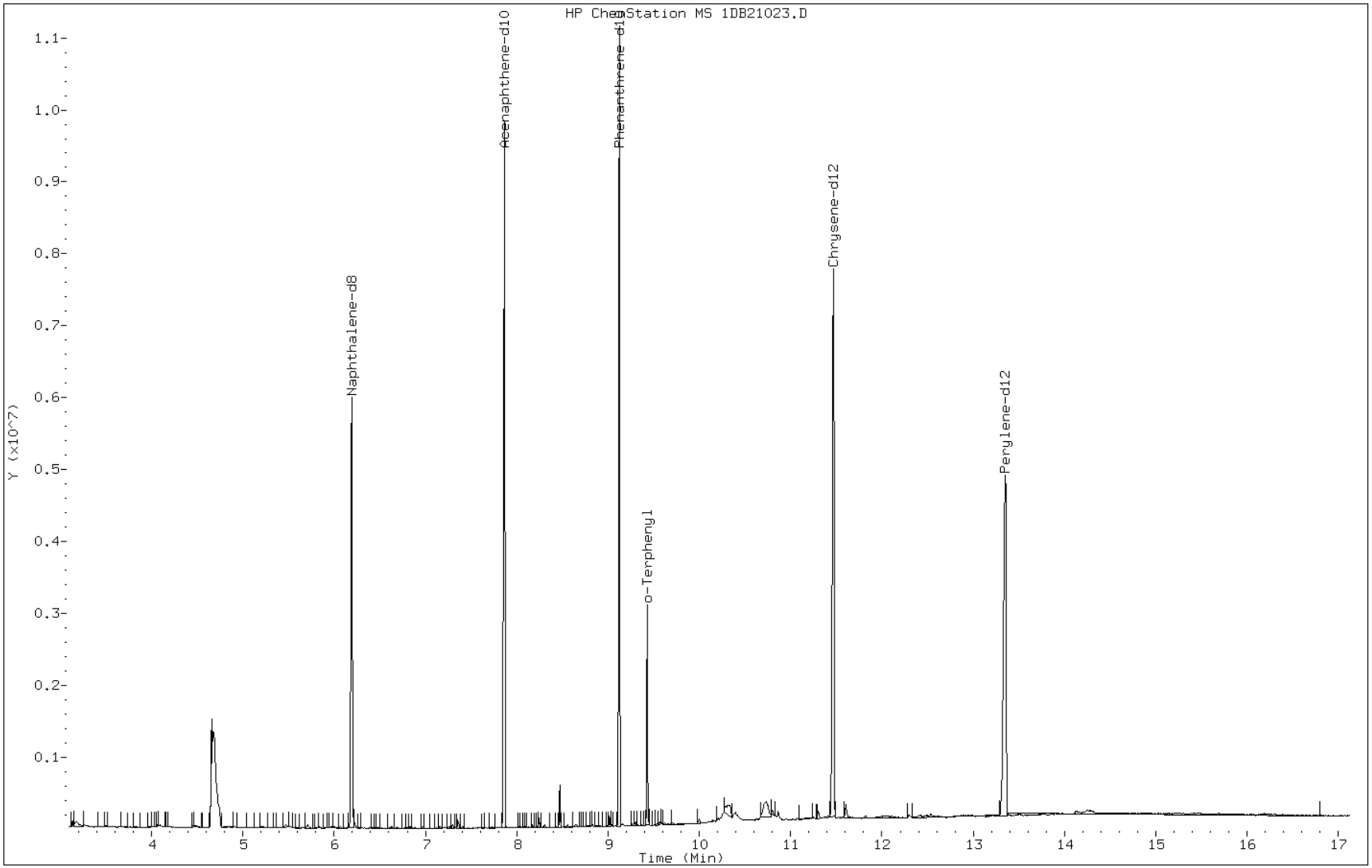
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.193	6.195	(1.000)	3444102	40.0000	
* 6 Acenaphthene-d10	164	7.861	7.863	(1.000)	2086349	40.0000	
* 9 Phenanthrene-d10	188	9.124	9.127	(1.000)	3394356	40.0000	
$ 13 o-Terphenyl	230	9.430	9.432	(1.033)	452281	8.97412	590
* 17 Chrysene-d12	240	11.469	11.477	(1.000)	3308053	40.0000	
* 22 Perylene-d12	264	13.349	13.363	(1.000)	3181769	40.0000	

Data File: 1DB21023.D

Date: 21-FEB-2013 19:28

Client ID: Instrument: BSMSD.i

Sample Info: MB 660-134677/1-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: | Lab Sample ID: LCS 660-134668/2-A

Matrix: Solid | Lab File ID: 1CB21006.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 15.01(g) | Date Analyzed: 02/21/2013 12:42

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.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	629		100	20
208-96-8	Acenaphthylene	634		40	5.0
120-12-7	Anthracene	617		8.4	4.2
56-55-3	Benzo[a]anthracene	656		8.0	3.9
50-32-8	Benzo[a]pyrene	646		10	5.2
205-99-2	Benzo[b]fluoranthene	670		12	6.1
191-24-2	Benzo[g,h,i]perylene	638		20	4.4
207-08-9	Benzo[k]fluoranthene	622		8.0	3.6
218-01-9	Chrysene	589		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	676		20	4.1
206-44-0	Fluoranthene	686		20	4.0
86-73-7	Fluorene	618		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	618		20	7.1
90-12-0	1-Methylnaphthalene	655		40	4.4
91-57-6	2-Methylnaphthalene	603		40	7.1
91-20-3	Naphthalene	599		40	4.4
85-01-8	Phenanthrene	565		8.0	3.9
129-00-0	Pyrene	654		20	3.7

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21006.D
Lab Smp Id: lcs 660-134668/2-a
Inj Date : 21-FEB-2013 12:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134668/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.010	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.810	3.810	(1.000)	1435517	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1139256	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2227952	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	319277	9.78040	651.5920
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	2649640	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2710208	40.0000	
2 Naphthalene	128	3.822	3.821	(1.003)	342148	8.99459	599.2395
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	223760	9.04662	602.7065
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	221274	9.83645	655.3264
5 Acenaphthylene	152	4.810	4.815	(0.982)	431146	9.51245	633.7406
7 Acenaphthene	154	4.921	4.921	(1.005)	268192	9.43446	628.5451
9 Fluorene	166	5.239	5.239	(1.070)	338711	9.28224	618.4035
11 Phenanthrene	178	5.868	5.874	(1.002)	563781	8.47755	564.7931
12 Anthracene	178	5.904	5.904	(1.008)	554749	9.25863	616.8305

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	541229	10.3992	692.8197
15 Fluoranthene	202	6.715	6.715	(1.147)	669421	10.3016	686.3127
16 Pyrene	202	6.880	6.886	(0.881)	692950	9.82352	654.4650
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	719063	9.84108	655.6349
19 Chrysene	228	7.827	7.833	(1.002)	667549	8.84466	589.2510
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	668291	10.0577	670.0691
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	683241	9.33378	621.8375
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	613229	9.69891	646.1633
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	563459	9.27844	618.1504(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	580763	10.1413	675.6331
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	590897	9.57891	638.1684

QC Flag Legend

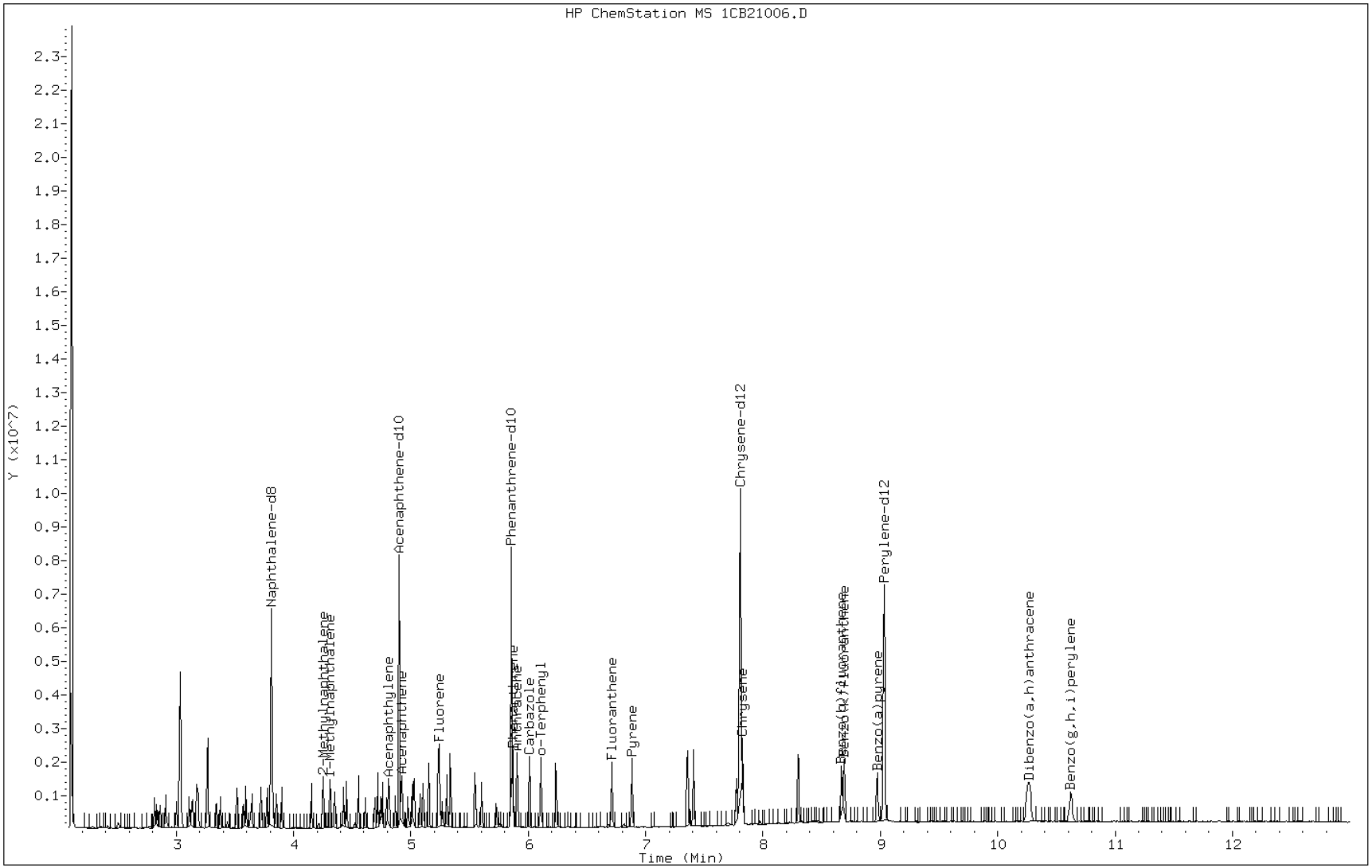
M - Compound response manually integrated.

Data File: 1CB21006.D

Date: 21-FEB-2013 12:42

Client ID: Instrument: BSMC5973.i

Sample Info: lcs 660-134668/2-a Operator: SCC



Manual Integration Report

Data File: 1CB21006.D
Inj. Date and Time: 21-FEB-2013 12:42
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

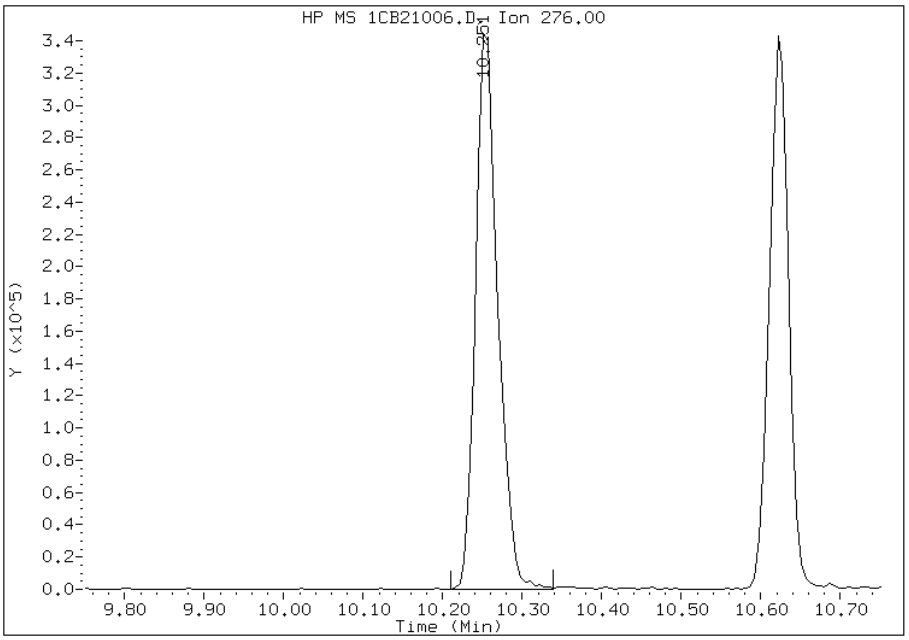
Processing Integration Results

RT: 10.25

Response: 668567

Amount: 11

Conc: 733



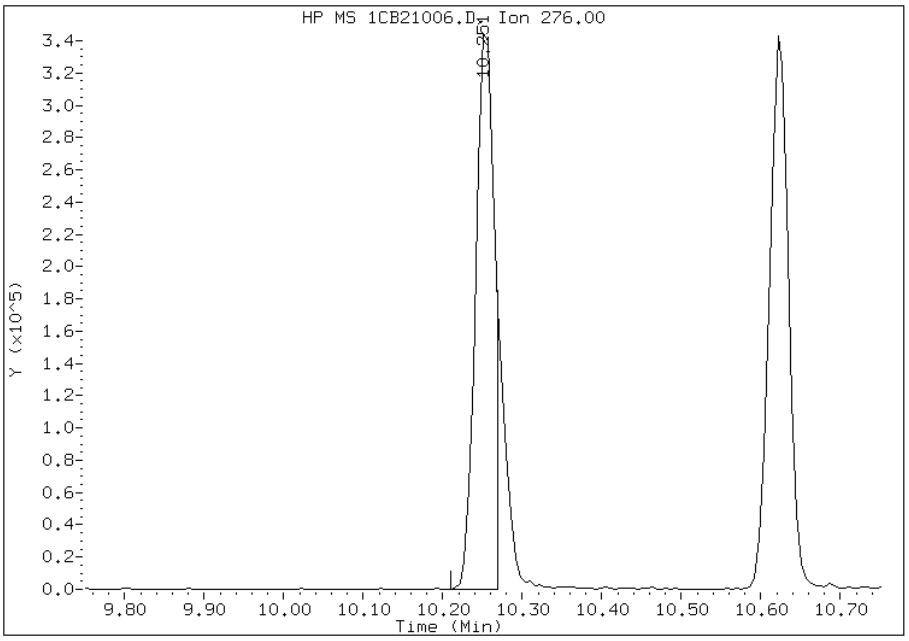
Manual Integration Results

RT: 10.25

Response: 563459

Amount: 9

Conc: 618



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 13:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87496-3
SDG No.: 68087496-3
Client Sample ID:
Lab Sample ID: LCS 660-134677/2-A
Matrix: Solid
Lab File ID: 1DB21024.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/20/2013 15:19
Sample wt/vol: 15.24(g)
Date Analyzed: 02/21/2013 19:51
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 134722
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	563		98	20
208-96-8	Acenaphthylene	582		39	4.9
120-12-7	Anthracene	544		8.3	4.1
56-55-3	Benzo[a]anthracene	578		7.9	3.8
50-32-8	Benzo[a]pyrene	537		10	5.1
205-99-2	Benzo[b]fluoranthene	654		12	6.0
191-24-2	Benzo[g,h,i]perylene	430		20	4.3
207-08-9	Benzo[k]fluoranthene	629		7.9	3.5
218-01-9	Chrysene	569		8.9	4.4
53-70-3	Dibenz(a,h)anthracene	542		20	4.0
206-44-0	Fluoranthene	618		20	3.9
86-73-7	Fluorene	588		20	4.0
193-39-5	Indeno[1,2,3-cd]pyrene	465		20	7.0
90-12-0	1-Methylnaphthalene	611		39	4.3
91-57-6	2-Methylnaphthalene	596		39	7.0
91-20-3	Naphthalene	563		39	4.3
85-01-8	Phenanthrene	567		7.9	3.8
129-00-0	Pyrene	584		20	3.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	100		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21024.D
Lab Smp Id: LCS 660-134677/2-A
Inj Date : 21-FEB-2013 19:51
Operator : SCC Inst ID: BSMSD.i
Smp Info : LCS 660-134677/2-A
Misc Info :
Comment   :
Method   : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 24 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	15.240	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.190	6.195	(1.000)	3424111	40.0000	
* 6 Acenaphthene-d10	164	7.864	7.863	(1.000)	2074866	40.0000	
* 9 Phenanthrene-d10	188	9.122	9.127	(1.000)	3364524	40.0000	
$ 13 o-Terphenyl	230	9.433	9.432	(1.034)	500253	10.0140	660
* 17 Chrysene-d12	240	11.472	11.477	(1.000)	3316322	40.0000	
* 22 Perylene-d12	264	13.352	13.363	(1.000)	3169855	40.0000	
2 Naphthalene	128	6.213	6.212	(1.004)	777064	8.58119	560
3 2-Methylnaphthalene	142	6.912	6.912	(1.117)	522413	9.08326	600
4 1-Methylnaphthalene	142	7.006	7.006	(1.132)	503354	9.30442	610
5 Acenaphthylene	152	7.735	7.734	(0.984)	794897	8.87337	580
7 Acenaphthene	154	7.888	7.893	(1.003)	468728	8.57953	560
8 Fluorene	166	8.328	8.333	(1.059)	581232	8.95389	590
10 Phenanthrene	178	9.139	9.144	(1.002)	829958	8.63445	570
11 Anthracene	178	9.180	9.185	(1.006)	780632	8.28898	540

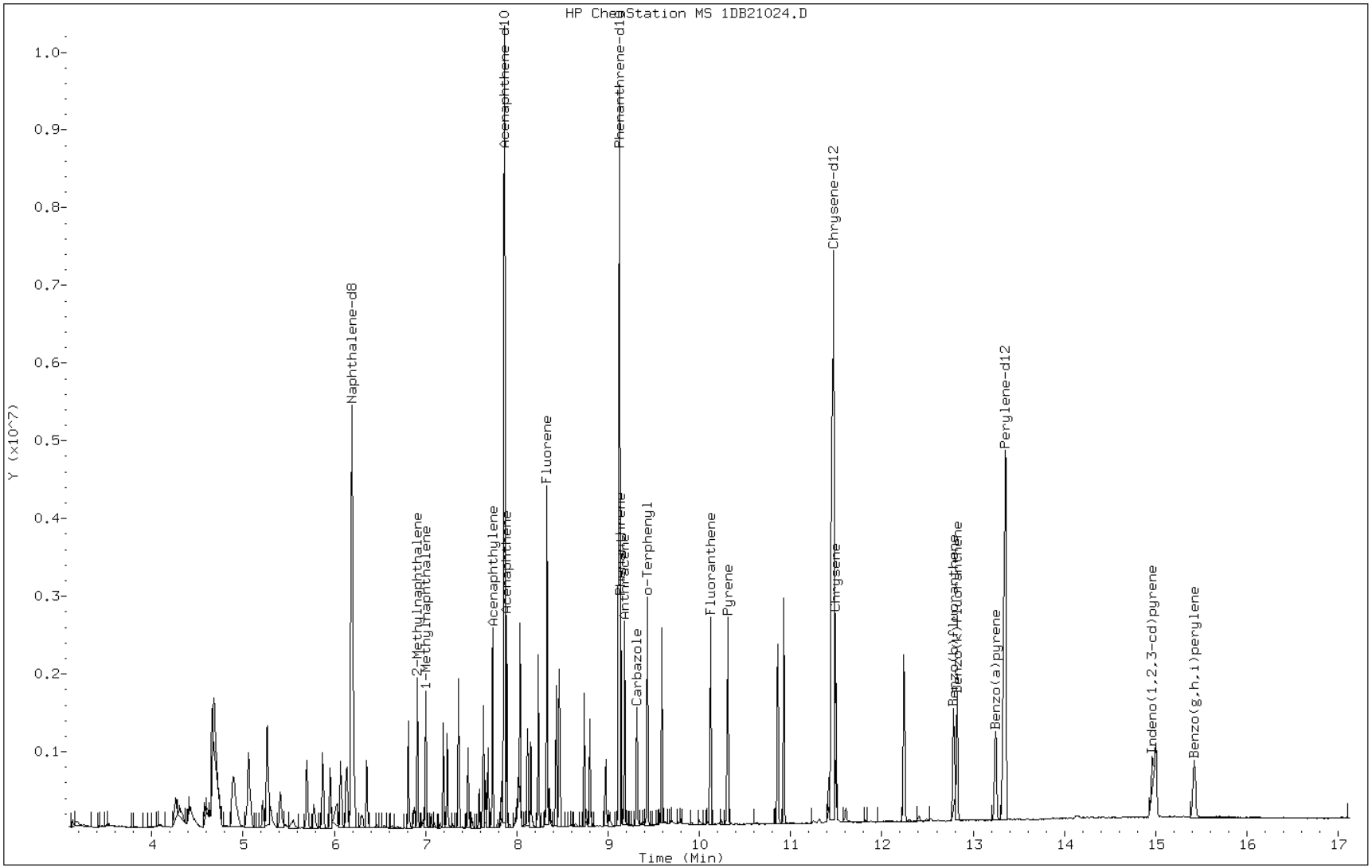
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.315	9.320	(1.021)	487405	5.84334	380
14 Fluoranthene	202	10.120	10.125	(1.109)	907420	9.42439	620
15 Pyrene	202	10.308	10.313	(0.899)	921705	8.90150	580
16 Benzo(a)anthracene	228	11.448	11.447	(0.998)	854574	8.80956	580
18 Chrysene	228	11.495	11.500	(1.002)	810455	8.67053	570
19 Benzo(b)fluoranthene	252	12.788	12.793	(0.958)	802231	9.96972	650
20 Benzo(k)fluoranthene	252	12.823	12.840	(0.960)	815400	9.59345	630
21 Benzo(a)pyrene	252	13.246	13.263	(0.992)	649490	8.18657	540
23 Indeno(1,2,3-cd)pyrene	276	14.968	14.990	(1.121)	600479	7.09110	460
24 Dibenzo(a,h)anthracene	278	15.003	15.026	(1.124)	641495	8.25552	540
25 Benzo(g,h,i)perylene	276	15.426	15.460	(1.155)	531479	6.55984	430

Data File: 1DB21024.D

Date: 21-FEB-2013 19:51

Client ID: Instrument: BSMSD.i

Sample Info: LCS 660-134677/2-A Operator: SCC



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: | Lab Sample ID: 680-87496-A-28-B MS

Matrix: Solid | Lab File ID: 1CB21009.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 14.98(g) | Date Analyzed: 02/21/2013 13:37

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

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

% Moisture: 38.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	1090		160	33
208-96-8	Acenaphthylene	1080		65	8.2
120-12-7	Anthracene	1270		14	6.9
56-55-3	Benzo[a]anthracene	2040		13	6.4
50-32-8	Benzo[a]pyrene	2030		17	8.5
205-99-2	Benzo[b]fluoranthene	2500		20	10
191-24-2	Benzo[g,h,i]perylene	1670		33	7.2
207-08-9	Benzo[k]fluoranthene	1830		13	5.9
218-01-9	Chrysene	1850		15	7.4
53-70-3	Dibenz(a,h)anthracene	1180		33	6.7
206-44-0	Fluoranthene	3340		33	6.5
86-73-7	Fluorene	1020		33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	1640		33	12
90-12-0	1-Methylnaphthalene	1200		65	7.2
91-57-6	2-Methylnaphthalene	1090		65	12
91-20-3	Naphthalene	1080		65	7.2
85-01-8	Phenanthrene	2200		13	6.4
129-00-0	Pyrene	2940		33	6.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21009.D
Lab Smp Id: 680-87496-a-28-b ms
Inj Date : 21-FEB-2013 13:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-28-b ms
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 9 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	14.980	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	3.810	3.810	(1.000)	1828675	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1387822	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2467610	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	353140	9.76709	652.0084
* 18 Chrysene-d12	240	7.809	7.809	(1.000)	2710073	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2564136	40.0000	
2 Naphthalene	128	3.821	3.821	(1.003)	479349	9.89215	660.3573
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	315097	10.0005	667.5877
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	315266	11.0016	734.4211
5 Acenaphthylene	152	4.810	4.815	(0.982)	548254	9.92973	662.8655
7 Acenaphthene	154	4.921	4.921	(1.005)	347263	10.0281	669.4306
9 Fluorene	166	5.239	5.239	(1.070)	415693	9.35155	624.2690
11 Phenanthrene	178	5.868	5.874	(1.002)	1481847	20.1183	1343.0140(R)
12 Anthracene	178	5.904	5.904	(1.008)	771758	11.6295	776.3340

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	615412	10.6762	712.6944
15 Fluoranthene	202	6.715	6.715	(1.147)	2203153	30.6110	2043.4572(R)
16 Pyrene	202	6.886	6.886	(0.882)	1942512	26.9237	1797.3102(R)
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	1398938	18.7189	1249.5924(R)
19 Chrysene	228	7.827	7.833	(1.002)	1309822	16.9674	1132.6721(R)
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	1439787	22.9031	1528.9127(R)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	1159201	16.7380	1117.3576(R)
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	1112264	18.5939	1241.2462(R)
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	861235	14.9898	1000.6541(RM)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	586391	10.8228	722.4865
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	890973	15.2662	1019.1040(R)

QC Flag Legend

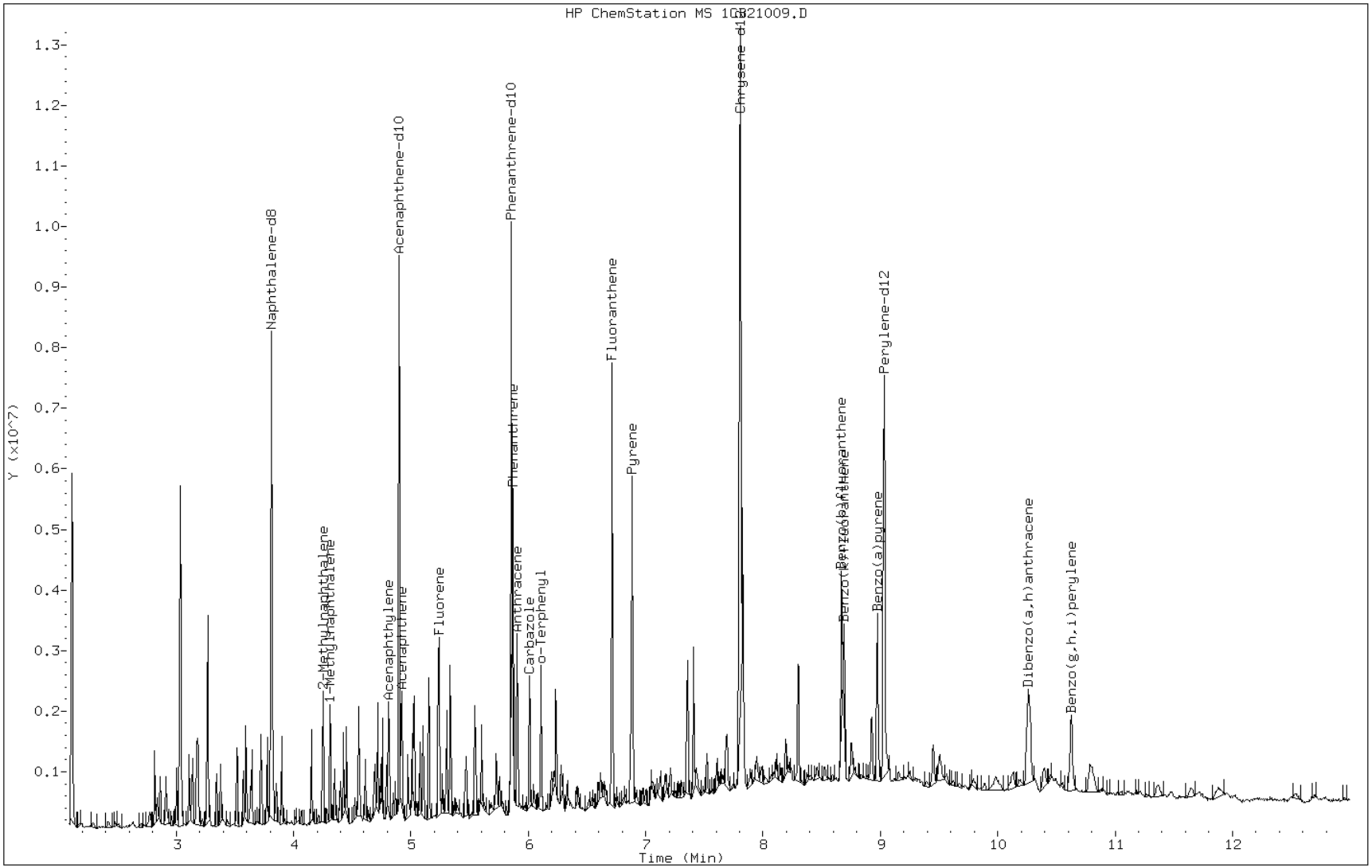
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB21009.D

Date: 21-FEB-2013 13:37

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-b ms Operator: SCC



Manual Integration Report

Data File: 1CB21009.D
Inj. Date and Time: 21-FEB-2013 13:37
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

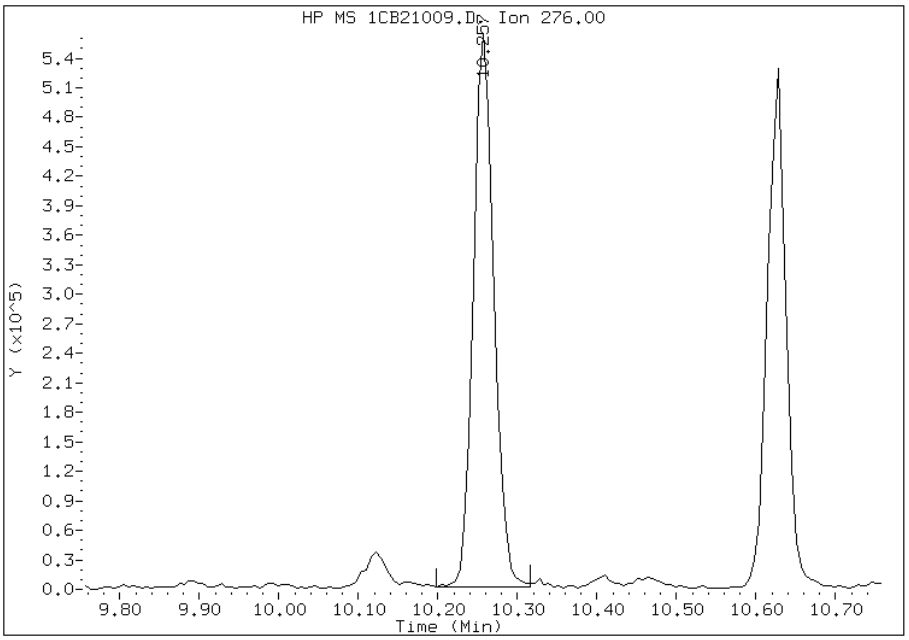
Processing Integration Results

RT: 10.26

Response: 999994

Amount: 17

Conc: 1162



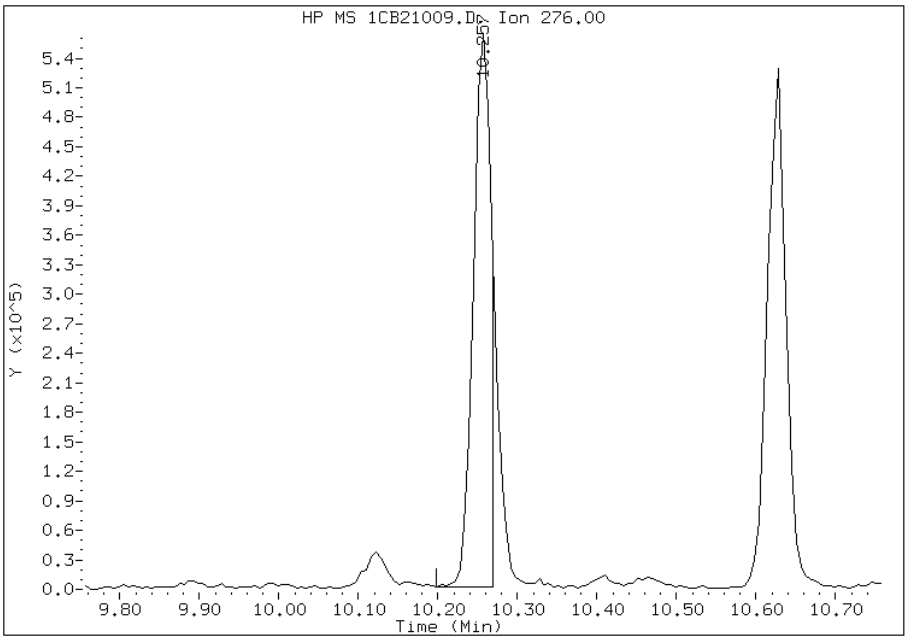
Manual Integration Results

RT: 10.26

Response: 861235

Amount: 15

Conc: 1001



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 13:59
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: CV0971BBB-CS MS | Lab Sample ID: 680-87496-48 MS

Matrix: Solid | Lab File ID: 1DB21029.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 14:40

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.05(g) | Date Analyzed: 02/21/2013 21:44

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

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

% Moisture: 6.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	659		430	85
208-96-8	Acenaphthylene	715		170	21
120-12-7	Anthracene	751		36	18
56-55-3	Benzo[a]anthracene	1050		34	17
50-32-8	Benzo[a]pyrene	1030		44	22
205-99-2	Benzo[b]fluoranthene	1410		52	26
191-24-2	Benzo[g,h,i]perylene	572		85	19
207-08-9	Benzo[k]fluoranthene	1060		34	15
218-01-9	Chrysene	1130		38	19
53-70-3	Dibenz(a,h)anthracene	577		85	17
206-44-0	Fluoranthene	1400		85	17
86-73-7	Fluorene	706		85	17
193-39-5	Indeno[1,2,3-cd]pyrene	634		85	30
90-12-0	1-Methylnaphthalene	739		170	19
91-57-6	2-Methylnaphthalene	750		170	30
91-20-3	Naphthalene	675		170	19
85-01-8	Phenanthrene	977		34	17
129-00-0	Pyrene	1260		85	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	108		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21029.D
Lab Smp Id: 680-87496-A-48-B MS
Inj Date : 21-FEB-2013 21:44
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-48-B MS
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 29 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	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.192	6.195	(1.000)	3353616	40.0000	
* 6 Acenaphthene-d10	164	7.867	7.863	(1.000)	2027560	40.0000	
* 9 Phenanthrene-d10	188	9.124	9.127	(1.000)	3330952	40.0000	
$ 13 o-Terphenyl	230	9.430	9.432	(1.033)	133689	2.70314	720
* 17 Chrysene-d12	240	11.474	11.477	(1.000)	3258268	40.0000	
* 22 Perylene-d12	264	13.360	13.363	(1.000)	2838548	40.0000	
2 Naphthalene	128	6.216	6.212	(1.004)	211079	2.37996	630
3 2-Methylnaphthalene	142	6.909	6.912	(1.116)	148992	2.64500	700
4 1-Methylnaphthalene	142	7.003	7.006	(1.131)	138097	2.60636	690
5 Acenaphthylene	152	7.732	7.734	(0.983)	220747	2.52167	670
7 Acenaphthene	154	7.890	7.893	(1.003)	124117	2.32483	620
8 Fluorene	166	8.331	8.333	(1.059)	158121	2.49269	660
10 Phenanthrene	178	9.142	9.144	(1.002)	327984	3.44657	920(R)
11 Anthracene	178	9.177	9.185	(1.006)	247094	2.65016	700

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.318	9.320	(1.021)	197214	2.38816	630
14 Fluoranthene	202	10.123	10.125	(1.109)	471391	4.94517	1300(R)
15 Pyrene	202	10.311	10.313	(0.899)	453349	4.45629	1200(R)
16 Benzo(a)anthracene	228	11.451	11.447	(0.998)	352545	3.69904	980(R)
18 Chrysene	228	11.492	11.500	(1.002)	366158	3.98708	1000(R)
19 Benzo(b)fluoranthene	252	12.790	12.793	(0.957)	359295	4.98629	1300(R)
20 Benzo(k)fluoranthene	252	12.826	12.840	(0.960)	283822	3.72901	990(R)
21 Benzo(a)pyrene	252	13.249	13.263	(0.992)	258802	3.64284	970(R)
23 Indeno(1,2,3-cd)pyrene	276	14.970	14.990	(1.120)	169649	2.23723	590(M)
24 Dibenzo(a,h)anthracene	278	15.006	15.026	(1.123)	141689	2.03625	540
25 Benzo(g,h,i)perylene	276	15.434	15.460	(1.155)	146469	2.01881	540

QC Flag Legend

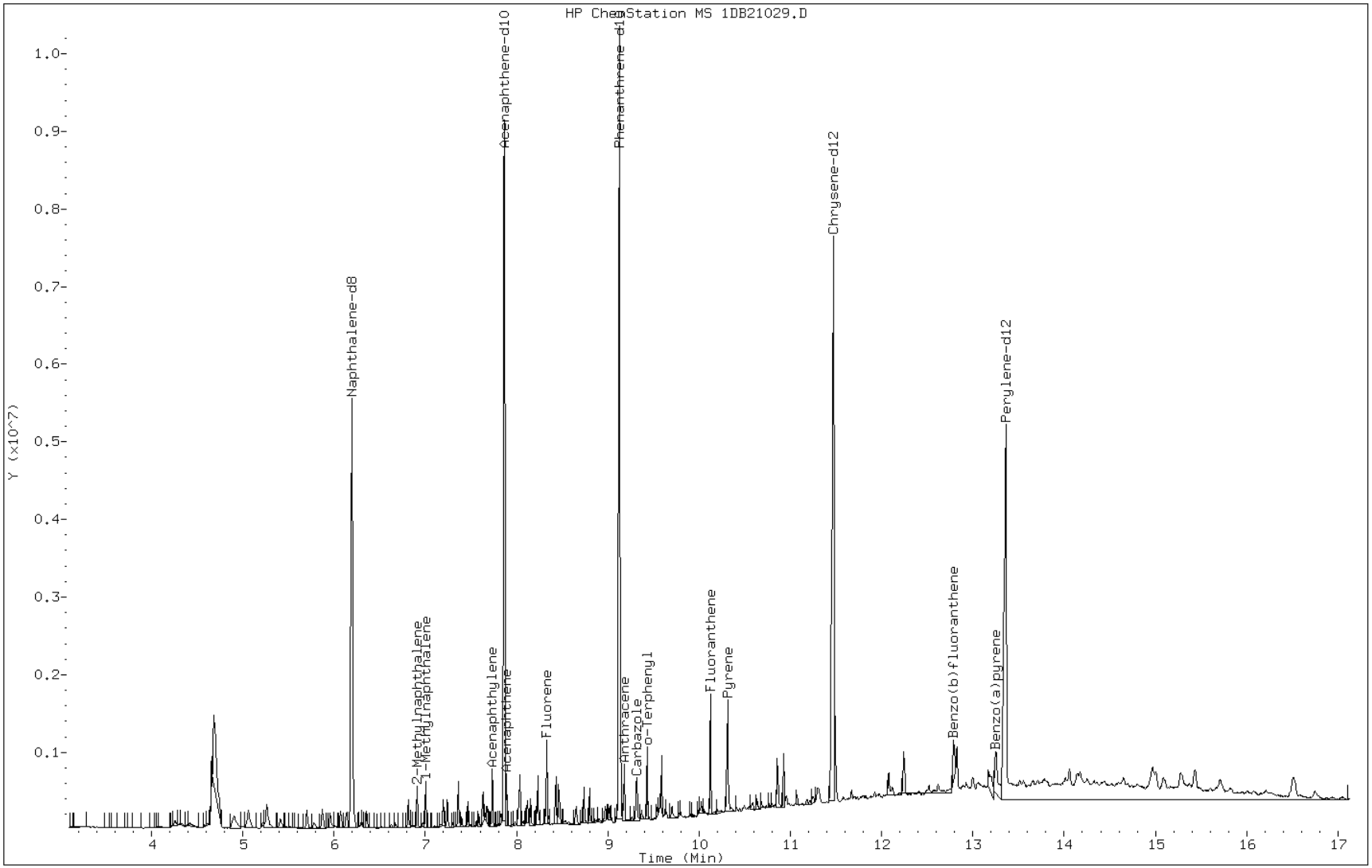
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DB21029.D

Date: 21-FEB-2013 21:44

Client ID: Instrument: BSMSD.i

Sample Info: 680-87496-A-48-B MS Operator: SCC



Manual Integration Report

Data File: 1DB21029.D
Inj. Date and Time: 21-FEB-2013 21:44
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

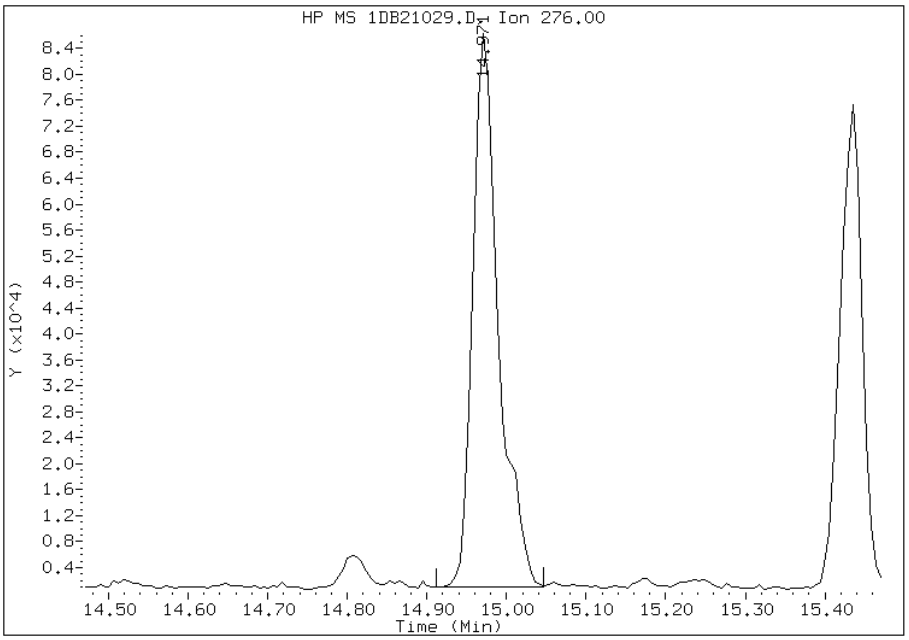
Processing Integration Results

RT: 14.97

Response: 189813

Amount: 3

Conc: 665



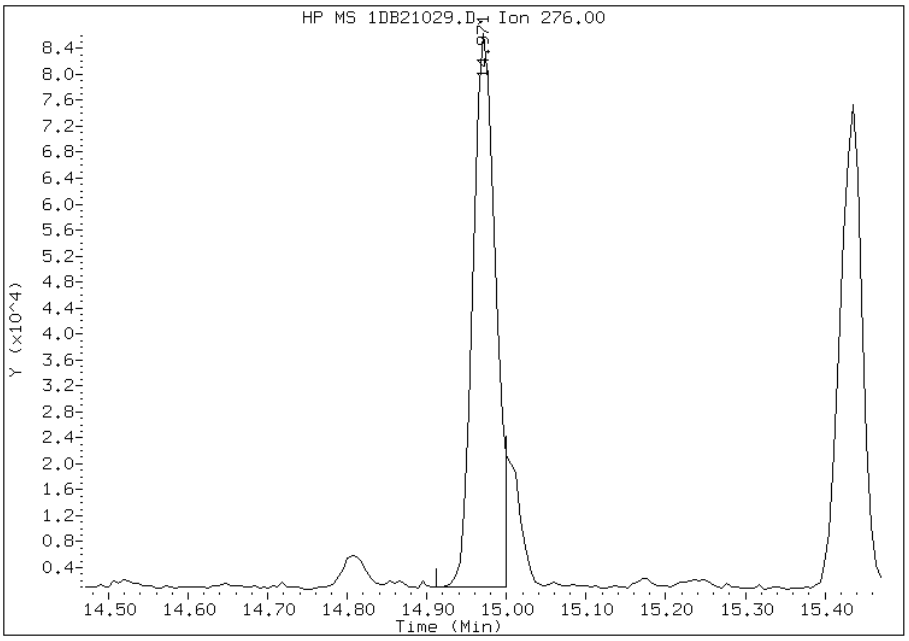
Manual Integration Results

RT: 14.97

Response: 169649

Amount: 2

Conc: 595



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 10:26
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: | Lab Sample ID: 680-87496-A-28-C MSD

Matrix: Solid | Lab File ID: 1CB21010.D

Analysis Method: 8270C LL | Date Collected:

Extract. Method: 3546 | Date Extracted: 02/20/2013 13:23

Sample wt/vol: 14.98(g) | Date Analyzed: 02/21/2013 13:56

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

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

% Moisture: 38.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134719 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	963		160	33
208-96-8	Acenaphthylene	1040		65	8.2
120-12-7	Anthracene	1010		14	6.9
56-55-3	Benzo[a]anthracene	1300		13	6.4
50-32-8	Benzo[a]pyrene	1310		17	8.5
205-99-2	Benzo[b]fluoranthene	1560		20	10
191-24-2	Benzo[g,h,i]perylene	1160		33	7.2
207-08-9	Benzo[k]fluoranthene	1100		13	5.9
218-01-9	Chrysene	1190		15	7.4
53-70-3	Dibenz(a,h)anthracene	1080		33	6.7
206-44-0	Fluoranthene	1490		33	6.5
86-73-7	Fluorene	957		33	6.7
193-39-5	Indeno[1,2,3-cd]pyrene	1210		33	12
90-12-0	1-Methylnaphthalene	1170		65	7.2
91-57-6	2-Methylnaphthalene	1120		65	12
91-20-3	Naphthalene	1080		65	7.2
85-01-8	Phenanthrene	1180		13	6.4
129-00-0	Pyrene	1510		33	6.1

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\1CB21010.D
Lab Smp Id: 680-87496-a-28-c ms
Inj Date : 21-FEB-2013 13:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87496-a-28-c msd
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C022113.b\a-bFASTPAHi-m.m
Meth Date : 21-Feb-2013 12:01 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 10 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	14.980	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	3.810	3.810	(1.000)	1736451	40.0000	
* 6 Acenaphthene-d10	164	4.898	4.898	(1.000)	1345891	40.0000	
* 10 Phenanthrene-d10	188	5.857	5.857	(1.000)	2440815	40.0000	
$ 14 o-Terphenyl	230	6.110	6.109	(1.043)	333528	9.32593	622.5586
* 18 Chrysene-d12	240	7.810	7.809	(1.000)	2644939	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2517891	40.0000	
2 Naphthalene	128	3.822	3.821	(1.003)	457134	9.93474	663.2002
3 2-Methylnaphthalene	142	4.251	4.251	(1.116)	307550	10.2794	686.2049
4 1-Methylnaphthalene	142	4.310	4.315	(1.131)	292362	10.7442	717.2374
5 Acenaphthylene	152	4.810	4.815	(0.982)	508000	9.48731	633.3317
7 Acenaphthene	154	4.921	4.921	(1.005)	296187	8.81960	588.7582
9 Fluorene	166	5.239	5.239	(1.070)	377864	8.76537	585.1382
11 Phenanthrene	178	5.868	5.874	(1.002)	785147	10.7766	719.3989
12 Anthracene	178	5.904	5.904	(1.008)	607997	9.26238	618.3161

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.010	6.015	(1.026)	532987	9.34776	624.0159
15 Fluoranthene	202	6.715	6.715	(1.147)	975130	13.6974	914.3765(R)
16 Pyrene	202	6.880	6.886	(0.881)	972130	13.8058	921.6138(R)
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	865656	11.8684	792.2834
19 Chrysene	228	7.827	7.833	(1.002)	824775	10.9472	730.7902
20 Benzo(b)fluoranthene	252	8.668	8.668	(0.960)	882857	14.3018	954.7264(R)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	684007	10.0580	671.4259
22 Benzo(a)pyrene	252	8.974	8.974	(0.993)	703965	11.9844	800.0281
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.262	(1.135)	625293	11.0831	739.8608(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	524956	9.86691	658.6724
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	607952	10.6081	708.1534

QC Flag Legend

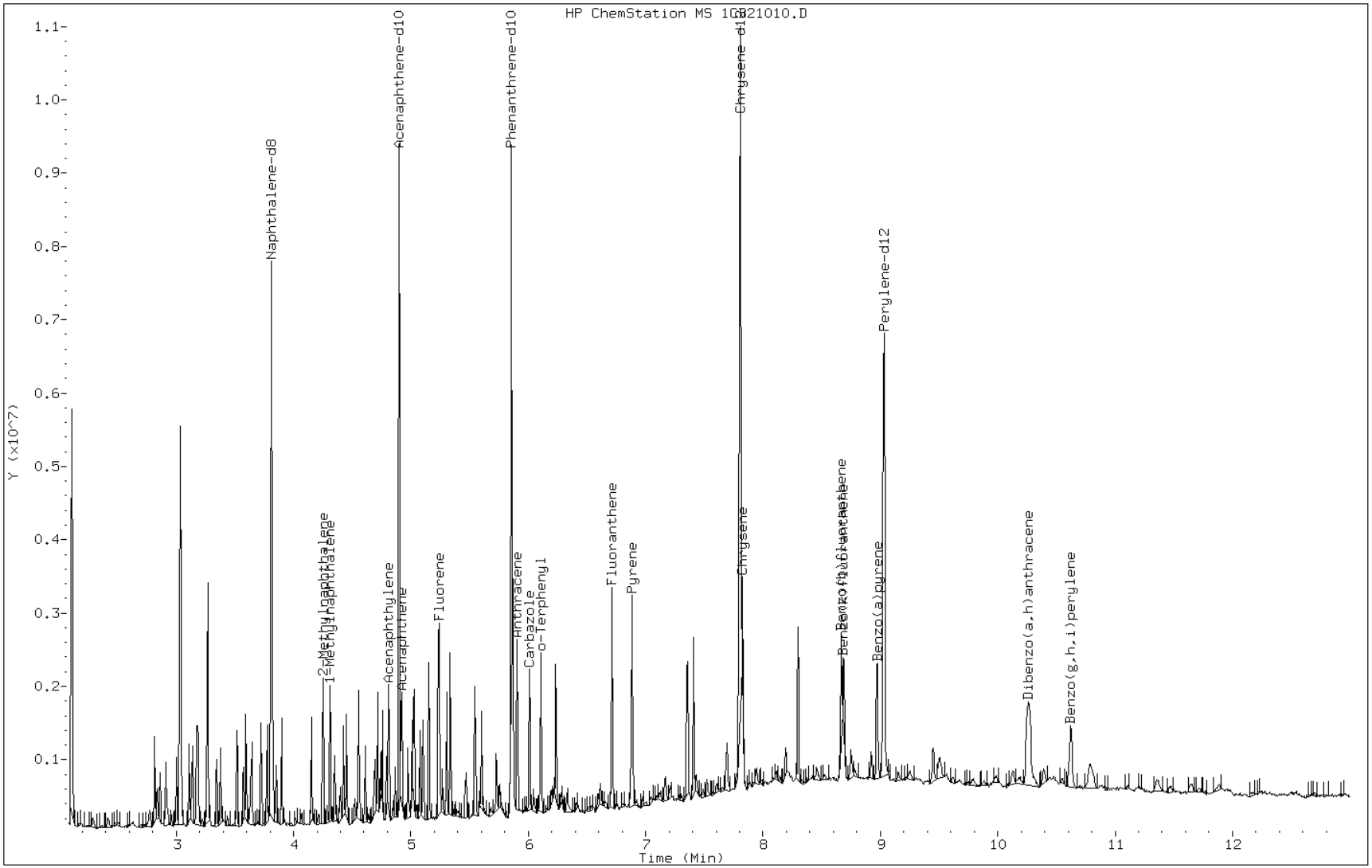
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB21010.D

Date: 21-FEB-2013 13:56

Client ID: Instrument: BSMC5973.i

Sample Info: 680-87496-a-28-c msd Operator: SCC



Manual Integration Report

Data File: 1CB21010.D
Inj. Date and Time: 21-FEB-2013 13:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/21/2013

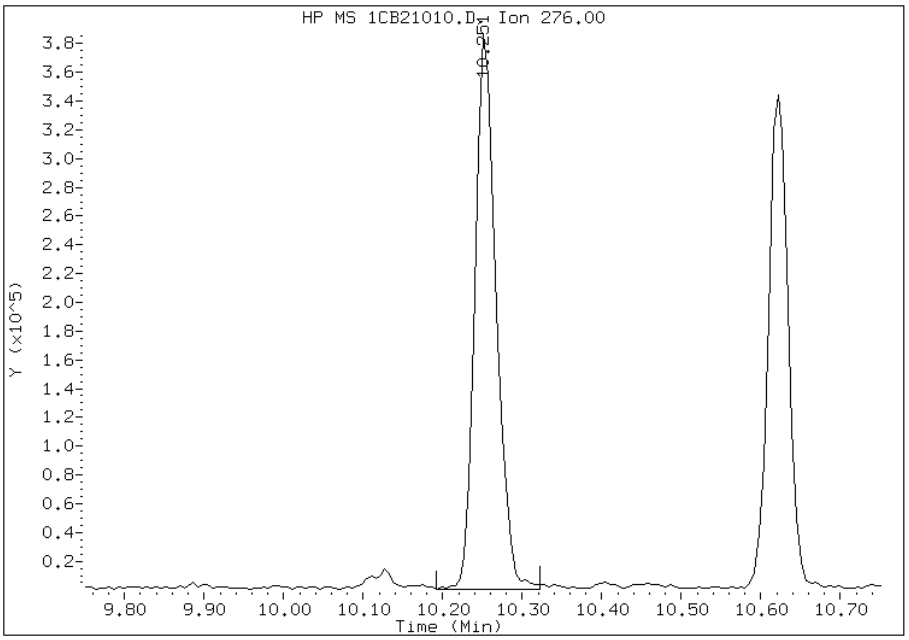
Processing Integration Results

RT: 10.25

Response: 711843

Amount: 13

Conc: 842



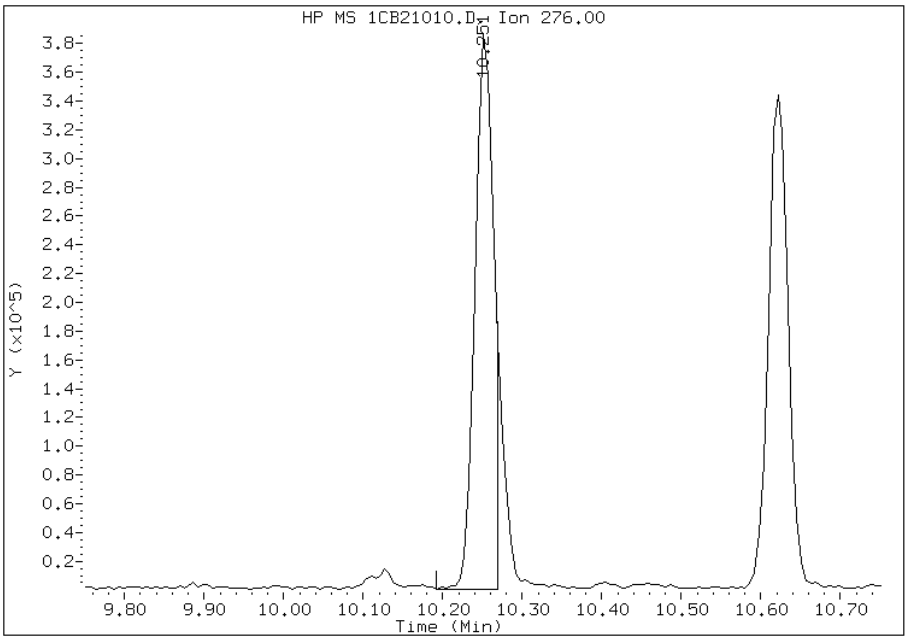
Manual Integration Results

RT: 10.25

Response: 625293

Amount: 11

Conc: 740



Manually Integrated By: cantins
Modification Date: 21-Feb-2013 14:13
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87496-3

SDG No.: 68087496-3

Client Sample ID: CV0971BBB-CS MSD | Lab Sample ID: 680-87496-48 MSD

Matrix: Solid | Lab File ID: 1DB21030.D

Analysis Method: 8270C LL | Date Collected: 02/13/2013 14:40

Extract. Method: 3546 | Date Extracted: 02/20/2013 15:19

Sample wt/vol: 15.05(g) | Date Analyzed: 02/21/2013 22:06

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

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

% Moisture: 6.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134722 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	655		430	85
208-96-8	Acenaphthylene	685		170	21
120-12-7	Anthracene	721		36	18
56-55-3	Benzo[a]anthracene	885		34	17
50-32-8	Benzo[a]pyrene	893		44	22
205-99-2	Benzo[b]fluoranthene	1180		52	26
191-24-2	Benzo[g,h,i]perylene	507		85	19
207-08-9	Benzo[k]fluoranthene	938		34	15
218-01-9	Chrysene	938		38	19
53-70-3	Dibenz(a,h)anthracene	559		85	17
206-44-0	Fluoranthene	1080		85	17
86-73-7	Fluorene	674		85	17
193-39-5	Indeno[1,2,3-cd]pyrene	566		85	30
90-12-0	1-Methylnaphthalene	775		170	19
91-57-6	2-Methylnaphthalene	757		170	30
91-20-3	Naphthalene	688		170	19
85-01-8	Phenanthrene	831		34	17
129-00-0	Pyrene	984		85	16

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	105		30-130

TestAmerica Laboratories

Semivolatile 8270/8310 low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\1DB21030.D
Lab Smp Id: 680-87496-A-48-C MS
Inj Date : 21-FEB-2013 22:06
Operator : SCC Inst ID: BSMSD.i
Smp Info : 680-87496-A-48-C MSD
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMSD.i\1D022113.b\dFASTPAHi.m
Meth Date : 21-Feb-2013 12:15 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 12:58 Cal File: 1DA07009.D
Als bottle: 30 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	15.050	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	6.196	6.195	(1.000)	3280026	40.0000	
* 6 Acenaphthene-d10	164	7.865	7.863	(1.000)	1985095	40.0000	
* 9 Phenanthrene-d10	188	9.122	9.127	(1.000)	3232519	40.0000	
$ 13 o-Terphenyl	230	9.428	9.432	(1.033)	125883	2.62281	700
* 17 Chrysene-d12	240	11.473	11.477	(1.000)	3166345	40.0000	
* 22 Perylene-d12	264	13.359	13.363	(1.000)	2723446	40.0000	
2 Naphthalene	128	6.214	6.212	(1.003)	210499	2.42667	640
3 2-Methylnaphthalene	142	6.913	6.912	(1.116)	147226	2.67228	710
4 1-Methylnaphthalene	142	7.007	7.006	(1.131)	141698	2.73432	730
5 Acenaphthylene	152	7.736	7.734	(0.984)	207105	2.41645	640
7 Acenaphthene	154	7.889	7.893	(1.003)	120724	2.30964	610
8 Fluorene	166	8.329	8.333	(1.059)	147599	2.37659	630
10 Phenanthrene	178	9.140	9.144	(1.002)	270683	2.93104	780
11 Anthracene	178	9.181	9.185	(1.006)	230079	2.54281	680

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
12 Carbazole	167	9.316	9.320	(1.021)	186690	2.32956	620
14 Fluoranthene	202	10.121	10.125	(1.109)	351320	3.79778	1000(R)
15 Pyrene	202	10.309	10.313	(0.899)	343312	3.47263	920(R)
16 Benzo(a)anthracene	228	11.449	11.447	(0.998)	289116	3.12159	830
18 Chrysene	228	11.490	11.500	(1.002)	295382	3.30978	880(R)
19 Benzo(b)fluoranthene	252	12.789	12.793	(0.957)	287881	4.16406	1100(R)
20 Benzo(k)fluoranthene	252	12.824	12.840	(0.960)	241671	3.30940	880(R)
21 Benzo(a)pyrene	252	13.253	13.263	(0.992)	214667	3.14931	840
23 Indeno(1,2,3-cd)pyrene	276	14.974	14.990	(1.121)	145220	1.99601	530(M)
24 Dibenzo(a,h)anthracene	278	15.004	15.026	(1.123)	131774	1.97379	520
25 Benzo(g,h,i)perylene	276	15.427	15.460	(1.155)	124591	1.78984	480

QC Flag Legend

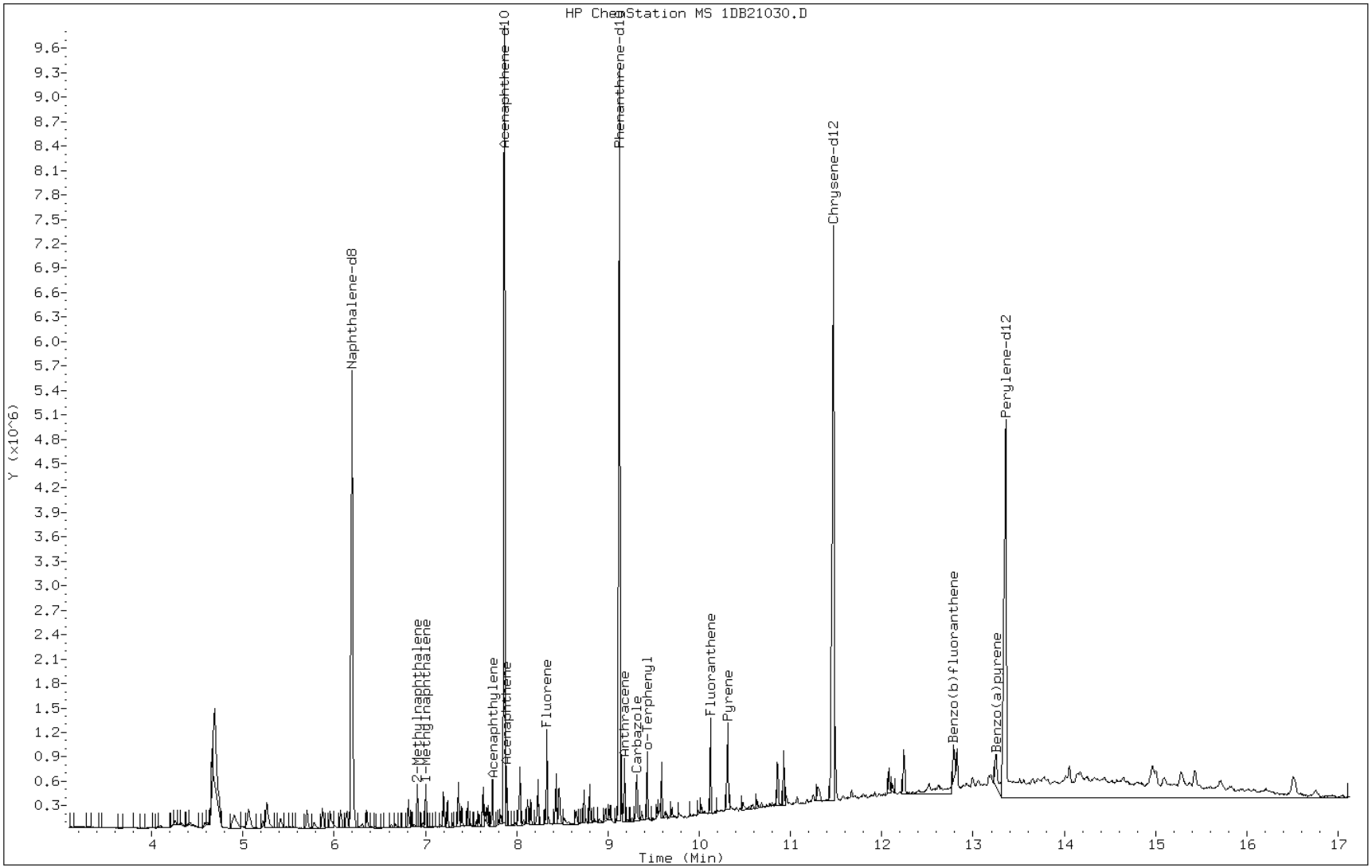
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1DB21030.D

Date: 21-FEB-2013 22:06

Client ID: Instrument: BSMSD.i

Sample Info: 680-87496-A-48-C MSD Operator: SCC



Manual Integration Report

Data File: 1DB21030.D
Inj. Date and Time: 21-FEB-2013 22:06
Instrument ID: BSMSD.i
Client ID:
Compound: 23 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/25/2013

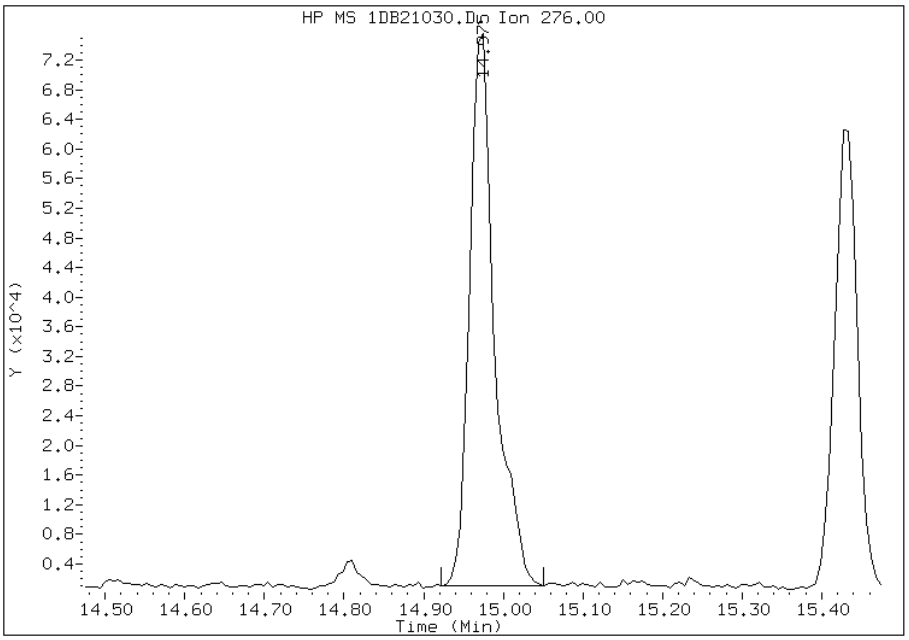
Processing Integration Results

RT: 14.97

Response: 163813

Amount: 2

Conc: 598



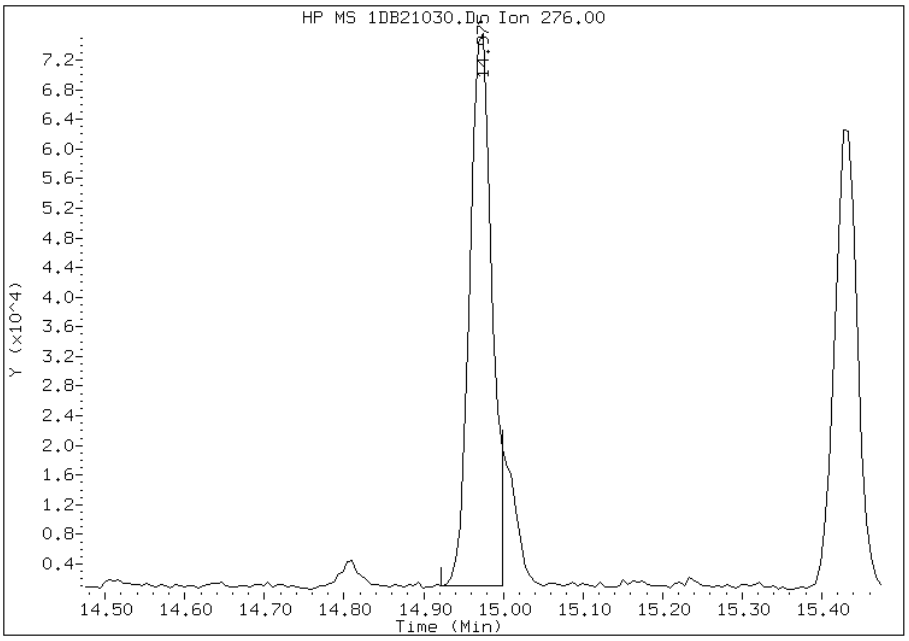
Manual Integration Results

RT: 14.97

Response: 145220

Amount: 2

Conc: 531



Manually Integrated By: cantins
Modification Date: 25-Feb-2013 10:26
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMA5973 Start Date: 02/22/2013 10:12

Analysis Batch Number: 134771 End Date: 02/22/2013 22:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 10:12	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 10:27	1		DB-5MS 250(um)
DFTPP 660-134771/2		02/22/2013 10:42	1	1AB22002.D	DB-5MS 250(um)
IC 660-134771/3		02/22/2013 11:01	1	1AB22003.D	DB-5MS 250(um)
IC 660-134771/4		02/22/2013 11:16	1	1AB22004.D	DB-5MS 250(um)
IC 660-134771/5		02/22/2013 11:31	1	1AB22005.D	DB-5MS 250(um)
IC 660-134771/6		02/22/2013 11:47	1	1AB22006.D	DB-5MS 250(um)
ICIS 660-134771/7		02/22/2013 12:02	1	1AB22007.D	DB-5MS 250(um)
IC 660-134771/8		02/22/2013 12:17	1	1AB22008.D	DB-5MS 250(um)
IC 660-134771/9		02/22/2013 12:32	1	1AB22009.D	DB-5MS 250(um)
ICV 660-134771/10		02/22/2013 12:48	1	1AB22010.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 13:08	1		DB-5MS 250(um)
680-87496-52	FM0160C-CSD	02/22/2013 13:23	1	1AB22012.D	DB-5MS 250(um)
680-87496-53	FM0160D-CS	02/22/2013 13:38	1	1AB22013.D	DB-5MS 250(um)
680-87496-54	FM0160E-CS	02/22/2013 13:53	1	1AB22014.D	DB-5MS 250(um)
680-87496-55	FM0160F-CS	02/22/2013 14:08	1	1AB22015.D	DB-5MS 250(um)
680-87496-56	FM0160F-CSD	02/22/2013 14:24	1	1AB22016.D	DB-5MS 250(um)
680-87496-57	FM0160G-CS	02/22/2013 14:39	1	1AB22017.D	DB-5MS 250(um)
680-87496-58	FM0160H-CS	02/22/2013 14:54	1	1AB22018.D	DB-5MS 250(um)
680-87496-59	FM0160I-CS	02/22/2013 15:09	1	1AB22019.D	DB-5MS 250(um)
680-87496-60	FM0160J-CS	02/22/2013 15:24	1	1AB22020.D	DB-5MS 250(um)
ZZZZZ		02/22/2013 15:39	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 15:55	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:09	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:25	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:39	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 16:55	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:10	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:25	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:40	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 17:55	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:10	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:26	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:41	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 18:55	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:11	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:26	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 19:41	1		DB-5MS 250(um)
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ZZZZZ		02/22/2013 20:11	1		DB-5MS 250(um)
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ZZZZZ		02/22/2013 20:42	4		DB-5MS 250(um)
ZZZZZ		02/22/2013 20:57	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 21:12	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 21:27	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMA5973 Start Date: 02/22/2013 10:12

Analysis Batch Number: 134771 End Date: 02/22/2013 22:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/22/2013 21:43	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 21:58	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 22:13	1		DB-5MS 250(um)
ZZZZZ		02/22/2013 22:28	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMA5973 Start Date: 02/25/2013 11:29

Analysis Batch Number: 134820 End Date: 02/26/2013 01:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/25/2013 11:29	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 11:45	1		DB-5MS 250(um)
DFTPP 660-134820/2		02/25/2013 12:00	1		DB-5MS 250(um)
DFTPP 660-134820/3		02/25/2013 12:15	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 14:13	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 14:29	1		DB-5MS 250(um)
DFTPP 660-134820/5		02/25/2013 14:44	1	1AB25005.D	DB-5MS 250(um)
CCVIS 660-134820/6		02/25/2013 14:59	1	1AB25006.D	DB-5MS 250(um)
ZZZZZ		02/25/2013 15:15	1		DB-5MS 250(um)
680-87496-46	CV0971ZZ-CS	02/25/2013 15:29	4	1AB25008.D	DB-5MS 250(um)
ZZZZZ		02/25/2013 17:00	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 17:15	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 17:30	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 17:45	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 18:00	1		DB-5MS 250(um)
ZZZZZ		02/25/2013 18:15	1		DB-5MS 250(um)
ZZZZZ		02/26/2013 01:47	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

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.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMC5973 Start Date: 02/21/2013 10:54

Analysis Batch Number: 134719 End Date: 02/21/2013 23:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/21/2013 10:54	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 11:12	1		DB-5MS 250(um)
DFTPP 660-134719/2		02/21/2013 11:30	1	1CB21002.D	DB-5MS 250(um)
CCVIS 660-134719/3		02/21/2013 11:47	1	1CB21003.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 12:05	1		DB-5MS 250(um)
MB 660-134668/1-A		02/21/2013 12:24	1	1CB21005.D	DB-5MS 250(um)
LCS 660-134668/2-A		02/21/2013 12:42	1	1CB21006.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 13:01	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 13:19	1		DB-5MS 250(um)
680-87496-A-28-B MS		02/21/2013 13:37	1	1CB21009.D	DB-5MS 250(um)
680-87496-A-28-C MSD		02/21/2013 13:56	1	1CB21010.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 14:14	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 14:32	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 14:51	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 15:09	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 15:28	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 15:46	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:04	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:23	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:41	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:59	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 17:18	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 17:36	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 17:54	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 18:12	1		DB-5MS 250(um)
680-87496-41	CV0971VV-CS	02/21/2013 18:31	4	1CB21025.D	DB-5MS 250(um)
680-87496-42	CV0971VV-CSD	02/21/2013 18:49	1	1CB21026.D	DB-5MS 250(um)
680-87496-43	CV0971WW-CS	02/21/2013 19:08	1	1CB21027.D	DB-5MS 250(um)
680-87496-44	CV0971XX-CS	02/21/2013 19:26	1	1CB21028.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 19:44	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 20:03	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 20:21	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 20:39	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 20:58	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 21:16	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 21:35	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 21:53	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 22:12	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 22:30	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 22:48	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 23:07	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 23:25	1		DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMD5973 Start Date: 01/07/2013 09:12

Analysis Batch Number: 133192 End Date: 01/07/2013 13:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/07/2013 09:12	1		DB-5MS 250(um)
ZZZZZ		01/07/2013 09:35	1		DB-5MS 250(um)
DFTPP 660-133192/2		01/07/2013 09:59	1	1DA07002.D	DB-5MS 250(um)
IC 660-133192/3		01/07/2013 10:43	1	1DA07003.D	DB-5MS 250(um)
IC 660-133192/4		01/07/2013 11:05	1	1DA07004.D	DB-5MS 250(um)
IC 660-133192/5		01/07/2013 11:28	1	1DA07005.D	DB-5MS 250(um)
IC 660-133192/6		01/07/2013 11:50	1	1DA07006.D	DB-5MS 250(um)
ICIS 660-133192/7		01/07/2013 12:13	1	1DA07007.D	DB-5MS 250(um)
IC 660-133192/8		01/07/2013 12:36	1	1DA07008.D	DB-5MS 250(um)
IC 660-133192/9		01/07/2013 12:58	1	1DA07009.D	DB-5MS 250(um)
ICV 660-133192/10		01/07/2013 13:20	1	1DA07010.D	DB-5MS 250(um)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: BSMD5973 Start Date: 02/21/2013 10:54

Analysis Batch Number: 134722 End Date: 02/21/2013 23:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/21/2013 10:54	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 11:16	1		DB-5MS 250(um)
DFTPP 660-134722/2		02/21/2013 11:40	1	1DB21002.D	DB-5MS 250(um)
CCVIS 660-134722/3		02/21/2013 11:57	1	1DB21003.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 12:19	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 12:42	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 13:05	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 13:27	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 13:50	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 14:12	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 14:35	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 14:57	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 15:20	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 15:43	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:05	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:28	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 16:50	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 17:13	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 17:36	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 17:58	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 18:21	1		DB-5MS 250(um)
ZZZZZ		02/21/2013 18:43	4		DB-5MS 250(um)
ZZZZZ		02/21/2013 19:06	1		DB-5MS 250(um)
MB 660-134677/1-A		02/21/2013 19:28	1	1DB21023.D	DB-5MS 250(um)
LCS 660-134677/2-A		02/21/2013 19:51	1	1DB21024.D	DB-5MS 250(um)
680-87496-45	CV0971YY-CS	02/21/2013 20:14	4	1DB21025.D	DB-5MS 250(um)
ZZZZZ		02/21/2013 20:36	4		DB-5MS 250(um)
680-87496-47	CV0971AAA-CS	02/21/2013 20:59	4	1DB21027.D	DB-5MS 250(um)
680-87496-48	CV0971BBB-CS	02/21/2013 21:21	4	1DB21028.D	DB-5MS 250(um)
680-87496-48 MS	CV0971BBB-CS MS	02/21/2013 21:44	4	1DB21029.D	DB-5MS 250(um)
680-87496-48 MSD	CV0971BBB-CS MSD	02/21/2013 22:06	4	1DB21030.D	DB-5MS 250(um)
680-87496-49	FM0160A-CS	02/21/2013 22:29	1	1DB21031.D	DB-5MS 250(um)
680-87496-50	FM0160B-CS	02/21/2013 22:52	1	1DB21032.D	DB-5MS 250(um)
680-87496-51	FM0160C-CS	02/21/2013 23:14	1	1DB21033.D	DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Batch Number: 134668 Batch Start Date: 02/20/13 13:23 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/21/13 09:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00174	EXLLSURINT 00175	
MB 660-134668/1		3546, 8270C LL		14.93 g	1 mL		1 mL		
LCS 660-134668/2		3546, 8270C LL		15.01 g	1 mL	1 mL	1 mL		
680-87496-A-28 MS		3546, 8270C LL	T	14.98 g	1 mL	1 mL		1 mL	
680-87496-A-28 MSD		3546, 8270C LL	T	14.98 g	1 mL	1 mL		1 mL	
680-87496-A-41	CV0971VV-CS	3546, 8270C LL	T	15.10 g	1 mL			1 mL	
680-87496-A-42	CV0971VV-CSD	3546, 8270C LL	T	15.13 g	1 mL			1 mL	
680-87496-A-43	CV0971WW-CS	3546, 8270C LL	T	15.24 g	1 mL			1 mL	
680-87496-A-44	CV0971XX-CS	3546, 8270C LL	T	15.00 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.: 680-87496-3

SDG No.: 68087496-3

Batch Number: 134668 Batch Start Date: 02/20/13 13:23 Batch Analyst: George, Abraham

Batch Method: 3546 Batch End Date: 02/21/13 09:05

Batch Notes	
Acetone Lot #	EX ACETON BOT _50
Balance ID	BOO1
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _52
MeCl2/Acetone Lot #	EX DCM/ACETON _19/20
Microwave Start Time	15.15/2/20/13
Microwave Stop Time	15.50/2/20/13
Na2SO4 Lot Number	EX NA2S04 A_62
Ottawa Sand Lot #	OTTAWSAND_10
Person's name who did the prep	AG
SOP Number	T P EX 014
Person who witnessed spiking	SAUREL
Surrogate Lot Number	EX LLSURINT _174/175
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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Batch Number: 134677 Batch Start Date: 02/20/13 15:19 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/21/13 09:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00019	EXLLSURINT 00175		
MB 660-134677/1		3546, 8270C LL		15.21 g	1 mL		1 mL		
LCS 660-134677/2		3546, 8270C LL		15.24 g	1 mL	1 mL	1 mL		
680-87496-A-45	CV0971YY-CS	3546, 8270C LL	T	15.34 g	1 mL		1 mL		
680-87496-A-46	CV0971ZZ-CS	3546, 8270C LL	T	14.99 g	1 mL		1 mL		
680-87496-A-47	CV0971AAA-CS	3546, 8270C LL	T	15.06 g	1 mL		1 mL		
680-87496-A-48	CV0971BBB-CS	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-87496-A-48 MS	CV0971BBB-CS	3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		
680-87496-A-48 MSD	CV0971BBB-CS	3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		
680-87496-A-49	FM0160A-CS	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-87496-A-50	FM0160B-CS	3546, 8270C LL	T	15.11 g	1 mL		1 mL		
680-87496-A-51	FM0160C-CS	3546, 8270C LL	T	15.48 g	1 mL		1 mL		
680-87496-A-52	FM0160C-CSD	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-87496-A-53	FM0160D-CS	3546, 8270C LL	T	15.38 g	1 mL		1 mL		
680-87496-A-54	FM0160E-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-87496-A-55	FM0160F-CS	3546, 8270C LL	T	15.50 g	1 mL		1 mL		
680-87496-A-56	FM0160F-CSD	3546, 8270C LL	T	15.17 g	1 mL		1 mL		
680-87496-A-57	FM0160G-CS	3546, 8270C LL	T	14.93 g	1 mL		1 mL		
680-87496-A-58	FM0160H-CS	3546, 8270C LL	T	14.92 g	1 mL		1 mL		
680-87496-A-59	FM0160I-CS	3546, 8270C LL	T	15.20 g	1 mL		1 mL		
680-87496-A-60	FM0160J-CS	3546, 8270C LL	T	15.41 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.: 680-87496-3

SDG No.: 68087496-3

Batch Number: 134677 Batch Start Date: 02/20/13 15:19 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/21/13 09:15

Batch Notes	
Acetone Lot #	EX ACETON BOT _50
Balance ID	B001
Batch Comment	RUSH
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX MC CYCL _52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 ML mL
MeCL2 Lot #	EX MC CYCL _52
MeCl2/Acetone Lot #	DCM/ACETON _20
Microwave Start Time	17.50/2/20/13
Microwave Stop Time	18.25/2/20/13
Na2SO4 Lot Number	EX NA2S04 A_62
Ottawa Sand Lot #	OTTAWASAND_10
Person's name who did the prep	SAUREL
SOP Number	T P EX 014
Person who witnessed spiking	AG
Surrogate Lot Number	EX LLSURINT _175
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: 680-87496-3

SDG No.: 68087496-3

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0971VV-CS	680-87496-41
CV0971VV-CSD	680-87496-42
CV0971WW-CS	680-87496-43
CV0971XX-CS	680-87496-44
CV0971YY-CS	680-87496-45
CV0971ZZ-CS	680-87496-46
CV0971AAA-CS	680-87496-47
CV0971BBB-CS	680-87496-48
FM0160A-CS	680-87496-49
FM0160B-CS	680-87496-50
FM0160C-CS	680-87496-51
FM0160C-CSD	680-87496-52
FM0160D-CS	680-87496-53
FM0160E-CS	680-87496-54
FM0160F-CS	680-87496-55
FM0160F-CSD	680-87496-56
FM0160G-CS	680-87496-57
FM0160H-CS	680-87496-58
FM0160I-CS	680-87496-59
FM0160J-CS	680-87496-60

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87496-3

SDG Number: 68087496-3

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87496-3

SDG Number: 68087496-3

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/18/2013 10:46 End Date: 02/18/2013 10:46

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-134573/1	1	T	10:46	X																			
ZZZZZZ			10:46																				
ZZZZZZ			10:46																				
ZZZZZZ			10:46																				
ZZZZZZ			10:46																				
ZZZZZZ			10:46																				
ZZZZZZ			10:46																				
ZZZZZZ			10:46																				
ZZZZZZ			10:46																				
ZZZZZZ			10:46																				
ZZZZZZ			10:46																				
680-87496-41	1	T	10:46	X																			
680-87496-42	1	T	10:46	X																			
680-87496-43	1	T	10:46	X																			
680-87496-44	1	T	10:46	X																			
680-87496-45	1	T	10:46	X																			
680-87496-46	1	T	10:46	X																			
680-87496-47	1	T	10:46	X																			
680-87496-48	1	T	10:46	X																			
680-87496-49	1	T	10:46	X																			
680-87496-50	1	T	10:46	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/18/2013 11:39 End Date: 02/18/2013 11:39

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
MB 660-134581/1	1	T	11:39	X																			
680-87496-51	1	T	11:39	X																			
680-87496-52	1	T	11:39	X																			
680-87496-53	1	T	11:39	X																			
680-87496-54	1	T	11:39	X																			
680-87496-55	1	T	11:39	X																			
680-87496-56	1	T	11:39	X																			
680-87496-57	1	T	11:39	X																			
680-87496-58	1	T	11:39	X																			
680-87496-59	1	T	11:39	X																			
680-87496-60	1	T	11:39	X																			
ZZZZZZ			11:39																				
ZZZZZZ			11:39																				
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Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87496-3

SDG No.: 68087496-3

Batch Number: 134573 Batch Start Date: 02/18/13 10:46 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-134573/1		Moisture		mb	0 g	5.01 g	5.04 g		
680-87496-A-41	CV0971VV-CS	Moisture	T	11	0 g	5.14 g	4.78 g		
680-87496-A-42	CV0971VV-CSD	Moisture	T	12	0 g	5.10 g	4.53 g		
680-87496-A-43	CV0971WW-CS	Moisture	T	13	0 g	5.16 g	4.04 g		
680-87496-A-44	CV0971XX-CS	Moisture	T	14	0 g	5.59 g	4.99 g		
680-87496-A-45	CV0971YY-CS	Moisture	T	15	0 g	5.17 g	4.69 g		
680-87496-A-46	CV0971ZZ-CS	Moisture	T	16	0 g	5.24 g	5.13 g		
680-87496-A-47	CV0971AAA-CS	Moisture	T	17	0 g	5.22 g	5.13 g		
680-87496-A-48	CV0971BBB-CS	Moisture	T	18	0 g	5.30 g	4.97 g		
680-87496-A-49	FM0160A-CS	Moisture	T	19	0 g	5.46 g	4.79 g		
680-87496-A-50	FM0160B-CS	Moisture	T	20	0 g	5.02 g	4.21 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.18.13

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.: 680-87496-3

SDG No.: 68087496-3

Batch Number: 134581 Batch Start Date: 02/18/13 11:39 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
MB 660-134581/1		Moisture		mb	0 g	4.99 g	5.00 g		
680-87496-A-51	FM0160C-CS	Moisture	T	21	0 g	5.58 g	4.79 g		
680-87496-A-52	FM0160C-CSD	Moisture	T	22	0 g	5.38 g	4.77 g		
680-87496-A-53	FM0160D-CS	Moisture	T	23	0 g	5.70 g	4.89 g		
680-87496-A-54	FM0160E-CS	Moisture	T	24	0 g	5.35 g	5.13 g		
680-87496-A-55	FM0160F-CS	Moisture	T	25	0 g	5.74 g	4.55 g		
680-87496-A-56	FM0160F-CSD	Moisture	T	26	0 g	5.61 g	5.29 g		
680-87496-A-57	FM0160G-CS	Moisture	T	27	0 g	5.25 g	4.90 g		
680-87496-A-58	FM0160H-CS	Moisture	T	28	0 g	5.04 g	4.74 g		
680-87496-A-59	FM0160I-CS	Moisture	T	29	0 g	5.20 g	4.92 g		
680-87496-A-60	FM0160J-CS	Moisture	T	30	0 g	5.99 g	5.38 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.18.13

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.

Shipping and Receiving Documents

Serial Number 59533

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.: 200548-1356	PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE:	CLIENT FAX:
CLIENT NAME: OTIE	CLIENT E-MAIL: LKrebs@otie.com	
CLIENT ADDRESS:		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 4 OF 7

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, ...)	Ba70 LLPAH	RCRA Metals									REMARKS
								PRESERVATIVE										
								NUMBER OF CONTAINERS SUBMITTED										
2/13/13	1120	CV0971AP-GS	G		X			X										
	1122	CV0971AQ-GS	G		X			X										
	1420	CV0971AR-GS	G		X			X										
	1341	CV0971UU-CS	C		X			X										
	1345	CV0971VV-CS	C		X			X	X									
	1348	CV0971VV-CSD	C		X			X										
	1407	CV0971WW-CS	C		X			X	X									
	1410	CV0971XX-CS	C		X			X										
	1415	CV0971YY-CS	C		X			X	X									
	1430	CV0971ZZ-CS	C		X			X										
	1433	CV0971AAA-CS	C		X			X										
	1440	CV0971BBB-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Nick Sen	2/14/13	1600						
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
	02/15/13	0942	YES ◯ NO ◯		680 87496	5.8/5.2 °C

TAL8240-680 (1008)

Serial Number 59538

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.: 20051248-1356	PROJECT LOCATION (STATE): AL	PAGE 5 OF 7
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER:	CONTRACT NO.:	STANDARD REPORT DELIVERY ○ DATE DUE ____
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE:	CLIENT FAX:	
CLIENT NAME: OTIE	CLIENT E-MAIL: L Krebs@otie.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○ DATE DUE ____
CLIENT ADDRESS:			
COMPANY CONTRACTING THIS WORK (if applicable):			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, ...)	8270 LLPAH									REMARKS
								PRESERVATIVE									
								NUMBER OF CONTAINERS SUBMITTED									
2/13/13	1517	FM0160A-CS	C		X			X									
	1522	FM0160B-CS	C		X			X									
	1528	FM0160C-CS	C		X			X									
	1530	FM0160C-CSD	C		X			X									
	1535	FM0160D-CS	C		X			X									
	1538	FM0160E-CS	C		X			X									
	1545	FM0160F-CS	C		X			X									
	1548	FM0160F-CSD	C		X			X									
	1552	FM0160G-CS	C		X			X									
	1555	FM0160H-CS	C		X			X									
	1602	FM0160I-CS	C		X			X									
	1603	FM0160J-CS	C		X			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/14/13	1600						
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]	02/15/13	0942	YES ○ NO ○		80-87496	5.8/5.2 °C

TAL8240-680 (1008)

Serial Number

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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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 Removal Ave	PROJECT NO.: 2005148-1356	PROJECT LOCATION (STATE): AL	PAGE 1 OF 7
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ( )
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE	CLIENT FAX	DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL: LKrebs@otie.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
CLIENT ADDRESS			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable)			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, ...)	8270 LL PAH									REMARKS
2/13/13	829	CV0971T-CS	C		X			X									
	835	CV0971U-CS	C		X			X									
	843	CV0971V-CS	C		X			X									
	845	CV0971W-CS	C		X			X									
	847	CV0971W-CSD	C		X			X									
	851	CV0971X-CS	C		X			X									5
	856	CV0971Y-CS	C		X			X									
	903	CV0971Z-CS	C		X			X									
	905	CV0971Z-CSD	C		X			X									
	908	CV0971AA-CS	C		X			X									
	911	CV0971BB-CS	C		X			X									
	915	CV0971CC-CS	C		X			X									

NUMBER OF CONTAINERS SUBMITTED

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/14/13	1600						
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]	02/15/13	0942	YES ( ) NO ( )		680 87496	13, 5.8/5.2°C

TAL8240-680 (1008)

Serial Number

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

(✓) TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

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( ) Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005748-1356	AL
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE	CLIENT FAX
CLIENT NAME: OTIE	CLIENT E-MAIL: LKeebs@otie.com	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 4 OF 7

STANDARD REPORT DELIVERY ( )
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	B270 WPAH	RCRA Metals	PRESERVATIVE								REMARKS
2/13/13	1120	CV0971AP-GS	G		X			X										
	1122	CV0971AQ-GS	G		X			X										
	1420	CV0971AR-GS	G		X			X										
	1341	CV0971UU-CS	C		X			X										
	1345	CV0971VV-CS	C		X			X	X									
	1348	CV0971VV-CSD	C		X			X										
	1407	CV0971WW-CS	C		X			X	X									
	1410	CV0971XX-CS	C		X			X										
	1415	CV0971YY-CS	C		X			X	X									
	1430	CV0971ZZ-CS	C		X			X										
	1433	CV0971AAA-CS	C		X			X										
	1440	CV0971BBB-CS	C		X			X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/14/13	1600						
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]	02/15/13	0942	YES ( ) NO ( )		680 87496	2, 3, 5.8/5.2 °C

TAL8240-680 (1008)

Serial Number

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

(✓) TestAmerica Savannah
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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.: 20051148-1356	PROJECT LOCATION (STATE): AL
TAL (LAB) PROJECT MANAGER: Lisa Harvey	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: R. Henderson	CLIENT PHONE:	CLIENT FAX:
CLIENT NAME: OTIE	CLIENT E-MAIL: LKrebs@otie.com	
CLIENT ADDRESS:		
COMPANY CONTRACTING THIS WORK (if applicable):		

PAGE 5 OF 7

STANDARD REPORT DELIVERY ( )
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: 8270 LLPAH; PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	8270 LLPAH									REMARKS
2/13/13	1517	FM0160A-CS	C		X			X									
	1522	FM0160B-CS	C		X			X									
	1528	FM0160C-CS	C		X			X									
	1530	FM0160C-CSD	C		X			X									
	1535	FM0160D-CS	C		X			X									
	1538	FM0160E-CS	C		X			X									
	1545	FM0160F-CS	C		X			X									
	1548	FM0160F-CSD	C		X			X									
	1552	FM0160G-CS	C		X			X									
	1555	FM0160H-CS	C		X			X									
	1602	FM0160I-CS	C		X			X									
	1603	FM0160J-CS	C		X			X									

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/14/13	1600						
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]	02/15/13	0942	YES ( ) NO ( )		80-87946	3, 5.8/5.2 °C

TAL8240-680 (1008)

02/26/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-3
SDG Number: 68087496-3

Login Number: 87496
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-3
SDG Number: 68087496-3

Login Number: 87496
List Number: 1
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 02/16/13 09:16 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	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87496-3
SDG Number: 68087496-3

Login Number: 87496
List Number: 2
Creator: Edwards, Erricka

List Source: TestAmerica Tampa
List Creation: 02/16/13 09:29 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	