ANALYTICAL REPORT

Job Number: 680-87218-1

SDG Number: 68087218-1

Job Description: 35th Avenue Superfund Site

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

Attention: Ms. Limari F Krebs

Approved for release.
Bernard Kirkland
Project Manager I
2/20/2013 11:15 AM

Designee for
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Project Manager II
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02/20/2013

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CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87218-1

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

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

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

RECEIPT

The samples were received on 02/07/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.6 C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0127A-CS-SP (680-87218-1), CV0127B-CS-SP (680-87218-2), CV0800A-CS-SP (680-87218-3), CV0966A-CS-SP (680-87218-4), CV0966B-CS-SP (680-87218-5), HP0325A-CS-SP (680-87218-6), HP0325B-CS-SP (680-87218-7), CV0966C-CS-SP (680-87218-8), CV0748A-CS (680-87218-9), CV0748A-CSD (680-87218-10), CV0748B-CS (680-87218-11), CV0748B-CSD (680-87218-12), CV0748C-CS (680-87218-13), CV0748C-CSD (680-87218-14), CV0748D-CS (680-87218-15), CV0748D-CSD (680-87218-16), CV0748E-CS (680-87218-17), CV0748F-CS (680-87218-18), CV0748G-CS (680-87218-19) and CV0748H-CS (680-87218-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/12/2013 and analyzed on 02/13/2013 and 02/14/2013.

Samples CV0800A-CS-SP (680-87218-3)[4X], CV0966B-CS-SP (680-87218-5)[4X], HP0325B-CS-SP (680-87218-7)[4X], CV0966C-CS-SP (680-87218-8)[4X], CV0748A-CS (680-87218-9)[4X], CV0748B-CS (680-87218-11)[4X], CV0748C-CS (680-87218-13) [4X], CV0748G-CS (680-87218-19)[4X] and CV0748H-CS (680-87218-20)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-134390/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Several analytes recoverd outside the recovery criteria for the MS/MSD of sample CV0800A-CS-SP (680-87218-3) in batch 660-134444.

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: 680-87218-1
Sdg Number: 68087218-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-87218-1	CV0127A-CS-SP	Solid	02/05/2013 1014	02/07/2013 1042
680-87218-2	CV0127B-CS-SP	Solid	02/05/2013 1024	02/07/2013 1042
680-87218-3	CV0800A-CS-SP	Solid	02/05/2013 0940	02/07/2013 1042
680-87218-3MS	CV0800A-CS-SP	Solid	02/05/2013 0940	02/07/2013 1042
680-87218-3MSD	CV0800A-CS-SP	Solid	02/05/2013 0940	02/07/2013 1042
680-87218-4	CV0966A-CS-SP	Solid	02/05/2013 0922	02/07/2013 1042
680-87218-5	CV0966B-CS-SP	Solid	02/05/2013 0936	02/07/2013 1042
680-87218-6	HP0325A-CS-SP	Solid	02/05/2013 0855	02/07/2013 1042
680-87218-7	HP0325B-CS-SP	Solid	02/05/2013 0900	02/07/2013 1042
680-87218-8	CV0966C-CS-SP	Solid	02/05/2013 0940	02/07/2013 1042
680-87218-9	CV0748A-CS	Solid	02/05/2013 0931	02/07/2013 1042
680-87218-10	CV0748A-CSD	Solid	02/05/2013 0933	02/07/2013 1042
680-87218-11	CV0748B-CS	Solid	02/05/2013 0935	02/07/2013 1042
680-87218-12	CV0748B-CSD	Solid	02/05/2013 0937	02/07/2013 1042
680-87218-13	CV0748C-CS	Solid	02/05/2013 0950	02/07/2013 1042
680-87218-14	CV0748C-CSD	Solid	02/05/2013 0951	02/07/2013 1042
680-87218-15	CV0748D-CS	Solid	02/05/2013 0956	02/07/2013 1042
680-87218-16	CV0748D-CSD	Solid	02/05/2013 0958	02/07/2013 1042
680-87218-17	CV0748E-CS	Solid	02/05/2013 1024	02/07/2013 1042
680-87218-18	CV0748F-CS	Solid	02/05/2013 1027	02/07/2013 1042
680-87218-19	CV0748G-CS	Solid	02/05/2013 1035	02/07/2013 1042
680-87218-20	CV0748H-CS	Solid	02/05/2013 1302	02/07/2013 1042

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87218-1
Sdg Number: 68087218-1

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

Lab References:

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87218-1
Sdg Number: 68087218-1

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: 680-87218-1
Sdg Number: 68087218-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	B	Compound was found in the blank and sample.
	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.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87218-1
Sdg Number: 68087218-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 660-134390					
LCS 660-134390/2-A	Lab Control Sample	T	Solid	3546	
MB 660-134390/1-A	Method Blank	T	Solid	3546	
680-87218-1	CV0127A-CS-SP	T	Solid	3546	
680-87218-2	CV0127B-CS-SP	T	Solid	3546	
680-87218-3	CV0800A-CS-SP	T	Solid	3546	
680-87218-3MS	Matrix Spike	T	Solid	3546	
680-87218-3MSD	Matrix Spike Duplicate	T	Solid	3546	
680-87218-4	CV0966A-CS-SP	T	Solid	3546	
680-87218-5	CV0966B-CS-SP	T	Solid	3546	
680-87218-6	HP0325A-CS-SP	T	Solid	3546	
680-87218-7	HP0325B-CS-SP	T	Solid	3546	
680-87218-8	CV0966C-CS-SP	T	Solid	3546	
680-87218-9	CV0748A-CS	T	Solid	3546	
680-87218-10	CV0748A-CSD	T	Solid	3546	
680-87218-11	CV0748B-CS	T	Solid	3546	
680-87218-12	CV0748B-CSD	T	Solid	3546	
680-87218-13	CV0748C-CS	T	Solid	3546	
680-87218-14	CV0748C-CSD	T	Solid	3546	
680-87218-15	CV0748D-CS	T	Solid	3546	
680-87218-16	CV0748D-CSD	T	Solid	3546	
680-87218-17	CV0748E-CS	T	Solid	3546	
680-87218-18	CV0748F-CS	T	Solid	3546	
680-87218-19	CV0748G-CS	T	Solid	3546	
680-87218-20	CV0748H-CS	T	Solid	3546	
Analysis Batch:660-134444					
LCS 660-134390/2-A	Lab Control Sample	T	Solid	8270C LL	660-134390
MB 660-134390/1-A	Method Blank	T	Solid	8270C LL	660-134390
680-87218-1	CV0127A-CS-SP	T	Solid	8270C LL	660-134390
680-87218-2	CV0127B-CS-SP	T	Solid	8270C LL	660-134390
680-87218-3	CV0800A-CS-SP	T	Solid	8270C LL	660-134390
680-87218-3MS	Matrix Spike	T	Solid	8270C LL	660-134390
680-87218-3MSD	Matrix Spike Duplicate	T	Solid	8270C LL	660-134390
680-87218-4	CV0966A-CS-SP	T	Solid	8270C LL	660-134390
680-87218-5	CV0966B-CS-SP	T	Solid	8270C LL	660-134390
680-87218-6	HP0325A-CS-SP	T	Solid	8270C LL	660-134390
680-87218-7	HP0325B-CS-SP	T	Solid	8270C LL	660-134390
680-87218-8	CV0966C-CS-SP	T	Solid	8270C LL	660-134390
680-87218-9	CV0748A-CS	T	Solid	8270C LL	660-134390
680-87218-10	CV0748A-CSD	T	Solid	8270C LL	660-134390
680-87218-12	CV0748B-CSD	T	Solid	8270C LL	660-134390
680-87218-13	CV0748C-CS	T	Solid	8270C LL	660-134390

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87218-1
Sdg Number: 68087218-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Analysis Batch:660-134493					
680-87218-11	CV0748B-CS	T	Solid	8270C LL	660-134390
680-87218-14	CV0748C-CSD	T	Solid	8270C LL	660-134390
680-87218-15	CV0748D-CS	T	Solid	8270C LL	660-134390
680-87218-16	CV0748D-CSD	T	Solid	8270C LL	660-134390
680-87218-17	CV0748E-CS	T	Solid	8270C LL	660-134390
680-87218-18	CV0748F-CS	T	Solid	8270C LL	660-134390
680-87218-19	CV0748G-CS	T	Solid	8270C LL	660-134390
680-87218-20	CV0748H-CS	T	Solid	8270C LL	660-134390

Report Basis
T = Total

General Chemistry					
Analysis Batch:660-134284					
LCS 660-134284/1	Lab Control Sample	T	Solid	Moisture	
680-87218-1	CV0127A-CS-SP	T	Solid	Moisture	
680-87218-2	CV0127B-CS-SP	T	Solid	Moisture	
680-87218-3	CV0800A-CS-SP	T	Solid	Moisture	
680-87218-4	CV0966A-CS-SP	T	Solid	Moisture	
680-87218-5	CV0966B-CS-SP	T	Solid	Moisture	
680-87218-6	HP0325A-CS-SP	T	Solid	Moisture	
680-87218-7	HP0325B-CS-SP	T	Solid	Moisture	
680-87218-8	CV0966C-CS-SP	T	Solid	Moisture	
680-87218-9	CV0748A-CS	T	Solid	Moisture	
680-87218-10	CV0748A-CSD	T	Solid	Moisture	
680-87218-11	CV0748B-CS	T	Solid	Moisture	
680-87218-12	CV0748B-CSD	T	Solid	Moisture	
680-87218-13	CV0748C-CS	T	Solid	Moisture	
680-87218-14	CV0748C-CSD	T	Solid	Moisture	
680-87218-15	CV0748D-CS	T	Solid	Moisture	
680-87218-16	CV0748D-CSD	T	Solid	Moisture	
680-87218-17	CV0748E-CS	T	Solid	Moisture	
680-87218-18	CV0748F-CS	T	Solid	Moisture	
Analysis Batch:660-134293					
LCS 660-134293/1	Lab Control Sample	T	Solid	Moisture	
680-87218-19	CV0748G-CS	T	Solid	Moisture	
680-87218-20	CV0748H-CS	T	Solid	Moisture	

Report Basis
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

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.: 680-87218-1

SDG No.: 68087218-1

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.: 680-87218-1

SDG No.: 68087218-1

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.: 680-87218-1

SDG No.: 68087218-1

Instrument ID: BSMC5973 Analysis Batch Number: 134444

Lab Sample ID: CCVIS 660-134444/6 Client Sample ID:

Date Analyzed: 02/13/13 11:54 Lab File ID: 1CB13006.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	02/13/13 12:13

Lab Sample ID: LCS 660-134390/2-A Client Sample ID:

Date Analyzed: 02/13/13 17:42 Lab File ID: 1CB13022.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	02/14/13 11:42

Lab Sample ID: 680-87218-1 Client Sample ID: CV0127A-CS-SP

Date Analyzed: 02/13/13 18:00 Lab File ID: 1CB13023.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	02/14/13 14:00
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/14/13 14:00
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/14/13 14:01

Lab Sample ID: 680-87218-2 Client Sample ID: CV0127B-CS-SP

Date Analyzed: 02/13/13 18:18 Lab File ID: 1CB13024.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	02/14/13 14:01
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/14/13 14:02
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/14/13 14:02

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Instrument ID: BSMC5973 Analysis Batch Number: 134444

Lab Sample ID: 680-87218-3 Client Sample ID: CV0800A-CS-SP

Date Analyzed: 02/13/13 18:37 Lab File ID: 1CB13025.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	02/14/13 14:03
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/14/13 14:03
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/14/13 14:04

Lab Sample ID: 680-87218-3 MS Client Sample ID: CV0800A-CS-SP MS

Date Analyzed: 02/13/13 18:55 Lab File ID: 1CB13026.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	02/14/13 14:04

Lab Sample ID: 680-87218-3 MSD Client Sample ID: CV0800A-CS-SP MSD

Date Analyzed: 02/13/13 19:13 Lab File ID: 1CB13027.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	02/14/13 14:05

Lab Sample ID: 680-87218-4 Client Sample ID: CV0966A-CS-SP

Date Analyzed: 02/13/13 19:32 Lab File ID: 1CB13028.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	02/14/13 14:06
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/14/13 14:06
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/14/13 14:06

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Instrument ID: BSMC5973 Analysis Batch Number: 134444

Lab Sample ID: 680-87218-5 Client Sample ID: CV0966B-CS-SP

Date Analyzed: 02/13/13 19:50 Lab File ID: 1CB13029.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	02/14/13 14:07
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/14/13 14:07
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/14/13 14:08

Lab Sample ID: 680-87218-6 Client Sample ID: HP0325A-CS-SP

Date Analyzed: 02/13/13 20:08 Lab File ID: 1CB13030.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	02/14/13 14:12
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/14/13 14:12
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/14/13 14:12

Lab Sample ID: 680-87218-7 Client Sample ID: HP0325B-CS-SP

Date Analyzed: 02/13/13 20:27 Lab File ID: 1CB13031.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	02/14/13 14:14
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/14/13 14:14
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/14/13 14:14

Lab Sample ID: 680-87218-8 Client Sample ID: CV0966C-CS-SP

Date Analyzed: 02/13/13 20:45 Lab File ID: 1CB13032.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	02/14/13 14:16
Benzo[g,h,i]perylene	10.63	Baseline Event	cantins	02/14/13 14:16

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Instrument ID: BSMC5973 Analysis Batch Number: 134444

Lab Sample ID: 680-87218-9 Client Sample ID: CV0748A-CS

Date Analyzed: 02/13/13 21:03 Lab File ID: 1CB13033.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	02/14/13 14:18
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/14/13 14:18
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/14/13 14:19

Lab Sample ID: 680-87218-10 Client Sample ID: CV0748A-CSD

Date Analyzed: 02/13/13 21:22 Lab File ID: 1CB13034.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	02/14/13 14:20
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/14/13 14:20
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/14/13 14:21

Lab Sample ID: 680-87218-12 Client Sample ID: CV0748B-CSD

Date Analyzed: 02/13/13 21:58 Lab File ID: 1CB13036.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	02/14/13 14:22

Lab Sample ID: 680-87218-13 Client Sample ID: CV0748C-CS

Date Analyzed: 02/13/13 22:17 Lab File ID: 1CB13037.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	02/14/13 14:23
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/14/13 14:23
Indeno[1,2,3-cd]pyrene	10.26	Split Peak	cantins	02/14/13 14:23

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Instrument ID: BSMC5973 Analysis Batch Number: 134493

Lab Sample ID: CCVIS 660-134493/3 Client Sample ID:

Date Analyzed: 02/14/13 14:56 Lab File ID: 1CB14003.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.27	Split Peak	cantins	02/14/13 15:13

Lab Sample ID: 680-87218-11 Client Sample ID: CV0748B-CS

Date Analyzed: 02/14/13 16:12 Lab File ID: 1CB14007.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/14/13 17:29
Dibenz(a,h)anthracene	10.25	Baseline Event	cantins	02/14/13 17:28

Lab Sample ID: 680-87218-14 Client Sample ID: CV0748C-CSD

Date Analyzed: 02/14/13 16:31 Lab File ID: 1CB14008.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/14/13 17:29
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/14/13 17:29
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/14/13 17:30

Lab Sample ID: 680-87218-15 Client Sample ID: CV0748D-CS

Date Analyzed: 02/14/13 16:49 Lab File ID: 1CB14009.D GC Column: DB-5MS ID: 250(um)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[b]fluoranthene	8.66	Split Peak	cantins	02/14/13 17:30
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/14/13 17:30
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/14/13 17:31

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Instrument ID: BSMC5973 Analysis Batch Number: 134493

Lab Sample ID: 680-87218-16 Client Sample ID: CV0748D-CSD

Date Analyzed: 02/14/13 17:07 Lab File ID: 1CB14010.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	02/14/13 17:32
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/14/13 17:32
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/14/13 17:32

Lab Sample ID: 680-87218-17 Client Sample ID: CV0748E-CS

Date Analyzed: 02/14/13 17:26 Lab File ID: 1CB14011.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	02/15/13 11:02
Benzo[k]fluoranthene	8.69	Baseline Event	cantins	02/15/13 11:02
Indeno[1,2,3-cd]pyrene	10.25	Split Peak	cantins	02/15/13 11:02

Lab Sample ID: 680-87218-18 Client Sample ID: CV0748F-CS

Date Analyzed: 02/14/13 17:44 Lab File ID: 1CB14012.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	02/15/13 11:03
Benzo[k]fluoranthene	8.68	Baseline Event	cantins	02/15/13 11:03
Indeno[1,2,3-cd]pyrene	10.24	Split Peak	cantins	02/15/13 11:03
Benzo[g,h,i]perylene	10.62	Baseline Event	cantins	02/15/13 11:03

Lab Sample ID: 680-87218-19 Client Sample ID: CV0748G-CS

Date Analyzed: 02/14/13 18:02 Lab File ID: 1CB14013.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	02/15/13 11:04

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Instrument ID: BSMC5973 Analysis Batch Number: 134493

Lab Sample ID: 680-87218-20 Client Sample ID: CV0748H-CS

Date Analyzed: 02/14/13 18:21 Lab File ID: 1CB14014.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	02/15/13 11:05

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.: 680-87218-1

SDG No.: 68087218-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH #
CV0127A-CS-SP	680-87218-1	87
CV0127B-CS-SP	680-87218-2	79
CV0800A-CS-SP	680-87218-3	112
CV0966A-CS-SP	680-87218-4	81
CV0966B-CS-SP	680-87218-5	120
HP0325A-CS-SP	680-87218-6	90
HP0325B-CS-SP	680-87218-7	115
CV0966C-CS-SP	680-87218-8	108
CV0748A-CS	680-87218-9	102
CV0748A-CSD	680-87218-10	87
CV0748B-CS	680-87218-11	76
CV0748B-CSD	680-87218-12	96
CV0748C-CS	680-87218-13	87
CV0748C-CSD	680-87218-14	63
CV0748D-CS	680-87218-15	64
CV0748D-CSD	680-87218-16	66
CV0748E-CS	680-87218-17	77
CV0748F-CS	680-87218-18	83
CV0748G-CS	680-87218-19	72
CV0748H-CS	680-87218-20	67
	MB 660-134390/1-A	103
	LCS 660-134390/2-A	101
CV0800A-CS-SP MS	680-87218-3 MS	115
CV0800A-CS-SP MSD	680-87218-3 MSD	112

QC LIMITS
30-130

OTPH = o-Terphenyl

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.: 680-87218-1

SDG No.: 68087218-1

Matrix: Solid Level: Low Lab File ID: 1CB13022.D

Lab ID: LCS 660-134390/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	669	624	93	39-130	
Acenaphthylene	669	642	96	38-130	
Anthracene	669	680	102	37-130	
Benzo[a]anthracene	669	668	100	40-130	
Benzo[a]pyrene	669	646	97	49-130	
Benzo[b]fluoranthene	669	640	96	37-130	
Benzo[g,h,i]perylene	669	646	97	32-130	
Benzo[k]fluoranthene	669	705	105	32-130	
Chrysene	669	598	89	41-130	
Dibenz(a,h)anthracene	669	629	94	27-130	
Fluoranthene	669	736	110	40-130	
Fluorene	669	653	98	40-130	
Indeno[1,2,3-cd]pyrene	669	559	84	30-130	
1-Methylnaphthalene	669	669	100	31-130	
2-Methylnaphthalene	669	637	95	33-130	
Naphthalene	669	621	93	36-130	
Phenanthrene	669	599	90	42-130	
Pyrene	669	668	100	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.: 680-87218-1

SDG No.: 68087218-1

Matrix: Solid Level: Low Lab File ID: 1CB13026.D

Lab ID: 680-87218-3 MS Client ID: CV0800A-CS-SP MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	869	520 U	907	104	39-130	
Acenaphthylene	869	170 J	1100	107	38-130	
Anthracene	869	170	1190	117	37-130	
Benzo[a]anthracene	869	670	1700	118	40-130	
Benzo[a]pyrene	869	720	1700	113	49-130	
Benzo[b]fluoranthene	869	1400	2710	147	37-130	F
Benzo[g,h,i]perylene	869	490	1370	101	32-130	
Benzo[k]fluoranthene	869	540	1400	100	32-130	
Chrysene	869	880	1920	120	41-130	
Dibenz(a,h)anthracene	869	190	1090	104	27-130	
Fluoranthene	869	850	1940	126	40-130	
Fluorene	869	36 J	956	106	40-130	
Indeno[1,2,3-cd]pyrene	869	480	1400	106	30-130	
1-Methylnaphthalene	869	950	1950	115	31-130	
2-Methylnaphthalene	869	1000	1990	112	33-130	
Naphthalene	869	610	1580	111	36-130	
Phenanthrene	869	910	1730	95	42-130	
Pyrene	869	930	2050	129	44-130	

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Matrix: Solid Level: Low Lab File ID: 1CB13027.D

Lab ID: 680-87218-3 MSD Client ID: CV0800A-CS-SP MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	869	928	107	2	40	39-130	
Acenaphthylene	869	1120	110	2	40	38-130	
Anthracene	869	1240	123	4	40	37-130	
Benzo[a]anthracene	869	1730	122	2	40	40-130	
Benzo[a]pyrene	869	1820	127	7	40	49-130	
Benzo[b]fluoranthene	869	2750	151	1	40	37-130	F
Benzo[g,h,i]perylene	869	1500	116	9	40	32-130	
Benzo[k]fluoranthene	869	1540	116	9	40	32-130	
Chrysene	869	2020	132	5	40	41-130	F
Dibenz(a,h)anthracene	869	1140	110	4	40	27-130	
Fluoranthene	869	1980	131	2	40	40-130	F
Fluorene	869	935	103	2	40	40-130	
Indeno[1,2,3-cd]pyrene	869	1450	111	3	40	30-130	
1-Methylnaphthalene	869	2010	122	3	40	31-130	
2-Methylnaphthalene	869	1980	110	1	40	33-130	
Naphthalene	869	1440	95	9	40	36-130	
Phenanthrene	869	1840	108	6	40	42-130	
Pyrene	869	2190	145	6	40	44-130	F

Column to be used to flag recovery and RPD values

FORM III 8270C LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Lab File ID: 1CB13021.D Lab Sample ID: MB 660-134390/1-A

Matrix: Solid Date Extracted: 02/12/2013 13:25

Instrument ID: BSMC5973 Date Analyzed: 02/13/2013 17:24

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 660-134390/2-A	1CB13022.D	02/13/2013 17:42
CV0127A-CS-SP	680-87218-1	1CB13023.D	02/13/2013 18:00
CV0127B-CS-SP	680-87218-2	1CB13024.D	02/13/2013 18:18
CV0800A-CS-SP	680-87218-3	1CB13025.D	02/13/2013 18:37
CV0800A-CS-SP MS	680-87218-3 MS	1CB13026.D	02/13/2013 18:55
CV0800A-CS-SP MSD	680-87218-3 MSD	1CB13027.D	02/13/2013 19:13
CV0966A-CS-SP	680-87218-4	1CB13028.D	02/13/2013 19:32
CV0966B-CS-SP	680-87218-5	1CB13029.D	02/13/2013 19:50
HP0325A-CS-SP	680-87218-6	1CB13030.D	02/13/2013 20:08
HP0325B-CS-SP	680-87218-7	1CB13031.D	02/13/2013 20:27
CV0966C-CS-SP	680-87218-8	1CB13032.D	02/13/2013 20:45
CV0748A-CS	680-87218-9	1CB13033.D	02/13/2013 21:03
CV0748A-CSD	680-87218-10	1CB13034.D	02/13/2013 21:22
CV0748B-CSD	680-87218-12	1CB13036.D	02/13/2013 21:58
CV0748C-CS	680-87218-13	1CB13037.D	02/13/2013 22:17
CV0748B-CS	680-87218-11	1CB14007.D	02/14/2013 16:12
CV0748C-CSD	680-87218-14	1CB14008.D	02/14/2013 16:31
CV0748D-CS	680-87218-15	1CB14009.D	02/14/2013 16:49
CV0748D-CSD	680-87218-16	1CB14010.D	02/14/2013 17:07
CV0748E-CS	680-87218-17	1CB14011.D	02/14/2013 17:26
CV0748F-CS	680-87218-18	1CB14012.D	02/14/2013 17:44
CV0748G-CS	680-87218-19	1CB14013.D	02/14/2013 18:02
CV0748H-CS	680-87218-20	1CB14014.D	02/14/2013 18:21

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

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

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.: 680-87218-1

SDG No.: 68087218-1

Lab File ID: 1CB13002.D DFTPP Injection Date: 02/13/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 10:17

Analysis Batch No.: 134444

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	27.6	
68	Less than 2.0 % of mass 69	0.5	(1.1)1
69	Mass 69 relative abundance	40.0	
70	Less than 2.0 % of mass 69	0.2	(0.5)1
127	10.0 - 80.0 % of mass 198	40.2	
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	25.4	
365	Greater than 1.0 % of mass 198	3.4	
441	Present but less than mass 443	13.6	
442	Greater than 50.0 % of mass 198	94.5	
443	15.0 - 24.0 % of mass 442	20.4	(21.6)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134444/6	1CB13006.D	02/13/2013	11:54
	MB 660-134390/1-A	1CB13021.D	02/13/2013	17:24
	LCS 660-134390/2-A	1CB13022.D	02/13/2013	17:42
CV0127A-CS-SP	680-87218-1	1CB13023.D	02/13/2013	18:00
CV0127B-CS-SP	680-87218-2	1CB13024.D	02/13/2013	18:18
CV0800A-CS-SP	680-87218-3	1CB13025.D	02/13/2013	18:37
CV0800A-CS-SP MS	680-87218-3 MS	1CB13026.D	02/13/2013	18:55
CV0800A-CS-SP MSD	680-87218-3 MSD	1CB13027.D	02/13/2013	19:13
CV0966A-CS-SP	680-87218-4	1CB13028.D	02/13/2013	19:32
CV0966B-CS-SP	680-87218-5	1CB13029.D	02/13/2013	19:50
HP0325A-CS-SP	680-87218-6	1CB13030.D	02/13/2013	20:08
HP0325B-CS-SP	680-87218-7	1CB13031.D	02/13/2013	20:27
CV0966C-CS-SP	680-87218-8	1CB13032.D	02/13/2013	20:45
CV0748A-CS	680-87218-9	1CB13033.D	02/13/2013	21:03
CV0748A-CSD	680-87218-10	1CB13034.D	02/13/2013	21:22
CV0748B-CSD	680-87218-12	1CB13036.D	02/13/2013	21:58
CV0748C-CS	680-87218-13	1CB13037.D	02/13/2013	22:17

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

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Lab File ID: 1CB14002.D DFTPP Injection Date: 02/14/2013

Instrument ID: BSMC5973 DFTPP Injection Time: 14:34

Analysis Batch No.: 134493

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	29.6	
68	Less than 2.0 % of mass 69	0.8	(1.8)1
69	Mass 69 relative abundance	47.2	
70	Less than 2.0 % of mass 69	0.4	(0.9)1
127	10.0 - 80.0 % of mass 198	44.4	
197	Less than 2.0 % of mass 198	0.9	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.8	
275	10.0 - 60.0 % of mass 198	24.7	
365	Greater than 1.0 % of mass 198	3.2	
441	Present but less than mass 443	13.2	
442	Greater than 50.0 % of mass 198	91.5	
443	15.0 - 24.0 % of mass 442	18.6	(20.3)2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-134493/3	1CB14003.D	02/14/2013	14:56
CV0748B-CS	680-87218-11	1CB14007.D	02/14/2013	16:12
CV0748C-CSD	680-87218-14	1CB14008.D	02/14/2013	16:31
CV0748D-CS	680-87218-15	1CB14009.D	02/14/2013	16:49
CV0748D-CSD	680-87218-16	1CB14010.D	02/14/2013	17:07
CV0748E-CS	680-87218-17	1CB14011.D	02/14/2013	17:26
CV0748F-CS	680-87218-18	1CB14012.D	02/14/2013	17:44
CV0748G-CS	680-87218-19	1CB14013.D	02/14/2013	18:02
CV0748H-CS	680-87218-20	1CB14014.D	02/14/2013	18:21

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

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

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.: 680-87218-1

SDG No.: 68087218-1

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.: 680-87218-1

SDG No.: 68087218-1

Sample No.: CCVIS 660-134444/6 Date Analyzed: 02/13/2013 11:54

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

Lab File ID (Standard): 1CB13006.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2187818	3.82	1703722	4.91	3176132	5.86
UPPER LIMIT		4375636	4.32	3407444	5.41	6352264	6.36
LOWER LIMIT		1093909	3.32	851861	4.41	1588066	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134390/1-A		1923264	3.82	1491227	4.91	2851093	5.86
LCS 660-134390/2-A		1835828	3.82	1444403	4.91	2803941	5.86
680-87218-1	CV0127A-CS-SP	1987526	3.82	1557139	4.91	2883132	5.86
680-87218-2	CV0127B-CS-SP	2123653	3.82	1686321	4.91	3080213	5.86
680-87218-3	CV0800A-CS-SP	2065896	3.82	1559169	4.91	2792815	5.86
680-87218-3 MS	CV0800A-CS-SP MS	2236600	3.82	1706067	4.91	3107026	5.86
680-87218-3 MSD	CV0800A-CS-SP MSD	2117730	3.82	1607734	4.91	2865976	5.86
680-87218-4	CV0966A-CS-SP	2109867	3.82	1606742	4.91	2935399	5.86
680-87218-5	CV0966B-CS-SP	2336886	3.82	1790377	4.91	3198309	5.86
680-87218-6	HP0325A-CS-SP	2329421	3.82	1785558	4.91	3356994	5.86
680-87218-7	HP0325B-CS-SP	2079320	3.82	1561105	4.91	2878477	5.86
680-87218-8	CV0966C-CS-SP	2238165	3.82	1732951	4.91	3114243	5.86
680-87218-9	CV0748A-CS	2159394	3.82	1615345	4.91	2954978	5.86
680-87218-10	CV0748A-CSD	2017721	3.82	1571215	4.91	2868934	5.86
680-87218-12	CV0748B-CSD	2120092	3.82	1641993	4.91	3026160	5.86
680-87218-13	CV0748C-CS	2622937	3.82	2030697	4.91	3686160	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.: 680-87218-1

SDG No.: 68087218-1

Sample No.: CCVIS 660-134444/6 Date Analyzed: 02/13/2013 11:54

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

Lab File ID (Standard): 1CB13006.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3998176	7.82	4169096	9.04		
UPPER LIMIT		7996352	8.32	8338192	9.54		
LOWER LIMIT		1999088	7.32	2084548	8.54		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 660-134390/1-A		3478631	7.82	3575673	9.04		
LCS 660-134390/2-A		3512431	7.82	3624179	9.03		
680-87218-1	CV0127A-CS-SP	3245876	7.82	3181705	9.04		
680-87218-2	CV0127B-CS-SP	3398154	7.82	3310445	9.03		
680-87218-3	CV0800A-CS-SP	3020364	7.82	2931501	9.04		
680-87218-3 MS	CV0800A-CS-SP MS	3174364	7.82	2960227	9.04		
680-87218-3 MSD	CV0800A-CS-SP MSD	2898987	7.82	2708999	9.04		
680-87218-4	CV0966A-CS-SP	3143198	7.82	2968931	9.04		
680-87218-5	CV0966B-CS-SP	3245088	7.82	3015378	9.04		
680-87218-6	HP0325A-CS-SP	3576285	7.82	3243394	9.04		
680-87218-7	HP0325B-CS-SP	2893509	7.82	2667840	9.04		
680-87218-8	CV0966C-CS-SP	3186259	7.82	2952511	9.04		
680-87218-9	CV0748A-CS	2997767	7.82	2778165	9.03		
680-87218-10	CV0748A-CSD	3068515	7.82	2849349	9.04		
680-87218-12	CV0748B-CSD	2958954	7.82	2717148	9.04		
680-87218-13	CV0748C-CS	3688326	7.82	3435373	9.04		

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.: 680-87218-1

SDG No.: 68087218-1

Sample No.: CCVIS 660-134493/3 Date Analyzed: 02/14/2013 14:56

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

Lab File ID (Standard): 1CB14003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2053022	3.82	1531446	4.91	2933515	5.86
UPPER LIMIT		4106044	4.32	3062892	5.41	5867030	6.36
LOWER LIMIT		1026511	3.32	765723	4.41	1466758	5.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87218-11	CV0748B-CS	2293659	3.82	1810447	4.90	3478060	5.86
680-87218-14	CV0748C-CSD	2166051	3.82	1727308	4.90	3282734	5.86
680-87218-15	CV0748D-CS	2100169	3.82	1647766	4.90	3214720	5.86
680-87218-16	CV0748D-CSD	2141024	3.82	1669511	4.90	3253285	5.86
680-87218-17	CV0748E-CS	2003792	3.82	1585126	4.90	3008050	5.86
680-87218-18	CV0748F-CS	2119041	3.82	1634803	4.90	3171325	5.86
680-87218-19	CV0748G-CS	2242272	3.82	1749975	4.91	3320653	5.86
680-87218-20	CV0748H-CS	2511848	3.82	1980623	4.90	3767666	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.: 680-87218-1

SDG No.: 68087218-1

Sample No.: CCVIS 660-134493/3 Date Analyzed: 02/14/2013 14:56

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

Lab File ID (Standard): 1CB14003.D Heated Purge: (Y/N) N

Calibration ID: 2667

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3745630	7.82	4029021	9.04		
UPPER LIMIT		7491260	8.32	8058042	9.54		
LOWER LIMIT		1872815	7.32	2014511	8.54		
LAB SAMPLE ID	CLIENT SAMPLE ID						
680-87218-11	CV0748B-CS	4335563	7.81	4524617	9.03		
680-87218-14	CV0748C-CSD	3925230	7.81	4027927	9.03		
680-87218-15	CV0748D-CS	3888481	7.81	3765885	9.03		
680-87218-16	CV0748D-CSD	3785778	7.81	3590925	9.03		
680-87218-17	CV0748E-CS	3487049	7.81	3388820	9.03		
680-87218-18	CV0748F-CS	3483225	7.81	3326263	9.03		
680-87218-19	CV0748G-CS	3676644	7.81	3509628	9.03		
680-87218-20	CV0748H-CS	4210080	7.81	3946255	9.03		

CRY = Chrysene-d12
PRY = Perylene-d12

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

Column used to flag values outside QC limits

FORM VIII 8270C LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0127A-CS-SP | Lab Sample ID: 680-87218-1

Matrix: Solid | Lab File ID: 1CB13023.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 10:14

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 14.98(g) | Date Analyzed: 02/13/2013 18:00

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

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

% Moisture: 19.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	57	J	120	25
208-96-8	Acenaphthylene	58		49	6.2
120-12-7	Anthracene	160		10	5.2
56-55-3	Benzo[a]anthracene	610		9.9	4.8
50-32-8	Benzo[a]pyrene	650		13	6.4
205-99-2	Benzo[b]fluoranthene	1000		15	7.5
191-24-2	Benzo[g,h,i]perylene	500		25	5.4
207-08-9	Benzo[k]fluoranthene	460		9.9	4.5
218-01-9	Chrysene	800		11	5.6
53-70-3	Dibenz(a,h)anthracene	160		25	5.1
206-44-0	Fluoranthene	1300		25	4.9
86-73-7	Fluorene	72		25	5.1
193-39-5	Indeno[1,2,3-cd]pyrene	400		25	8.8
90-12-0	1-Methylnaphthalene	310		49	5.4
91-57-6	2-Methylnaphthalene	370		49	8.8
91-20-3	Naphthalene	310		49	5.4
85-01-8	Phenanthrene	930	B	9.9	4.8
129-00-0	Pyrene	1000		25	4.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13023.D
Lab Smp Id: 680-87218-A-1-A Client Smp ID: CV0127A-CS-SP
Inj Date : 13-FEB-2013 18:00
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-1-a
Misc Info : 680-87218-A-1-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 23
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	19.000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	1987526	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1557139	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	2883132	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	367439	8.69792	716.8339
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3245876	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	3181705	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	200153	3.80036	313.2044
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	151904	4.43577	365.5712
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	115591	3.71131	305.8656
5 Acenaphthylene	152	4.821	4.821	(0.982)	43792	0.70690	58.2585
7 Acenaphthene	154	4.927	4.927	(1.004)	26983	0.69447	57.2346
9 Fluorene	166	5.251	5.251	(1.069)	43857	0.87934	72.4701(Q)
11 Phenanthrene	178	5.880	5.880	(1.003)	973019	11.3063	931.8059
12 Anthracene	178	5.915	5.915	(1.009)	154582	1.99366	164.3059

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
13 Carbazole	167	6.021	6.021	(1.027)	100516	1.49244	122.9984
15 Fluoranthene	202	6.721	6.721	(1.146)	1316863	15.6598	1290.5905
16 Pyrene	202	6.892	6.892	(0.882)	1070150	12.3841	1020.6293
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	661656	7.39202	609.2088
19 Chrysene	228	7.833	7.833	(1.002)	900378	9.73818	802.5662
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	987793	12.6632	1043.6299(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.961)	476044	5.53954	456.5377(M)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	585451	7.88739	650.0350
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.135)	346866	4.86538	400.9776(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	128731	1.91478	157.8053
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.176)	441051	6.09026	501.9251

QC Flag Legend

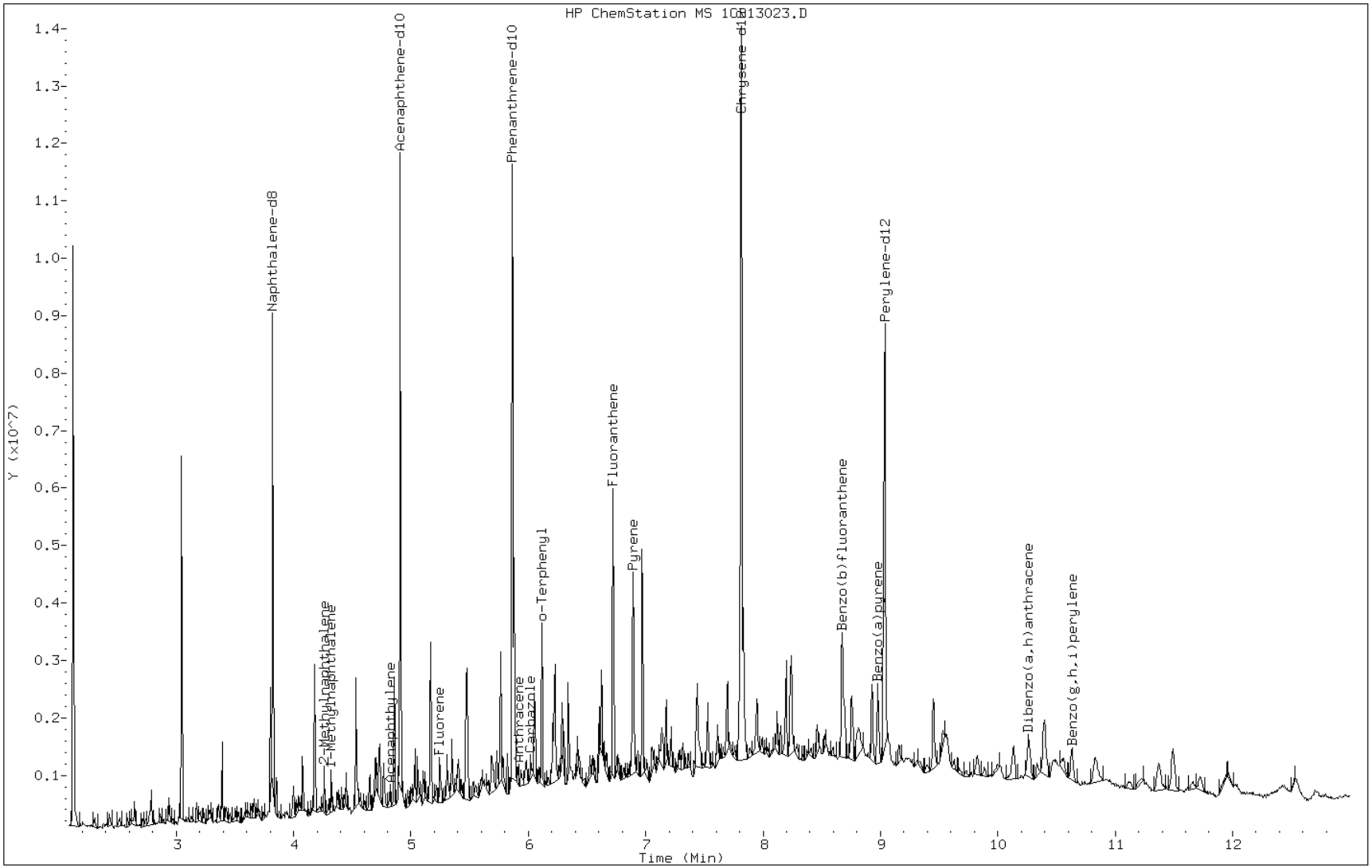
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC



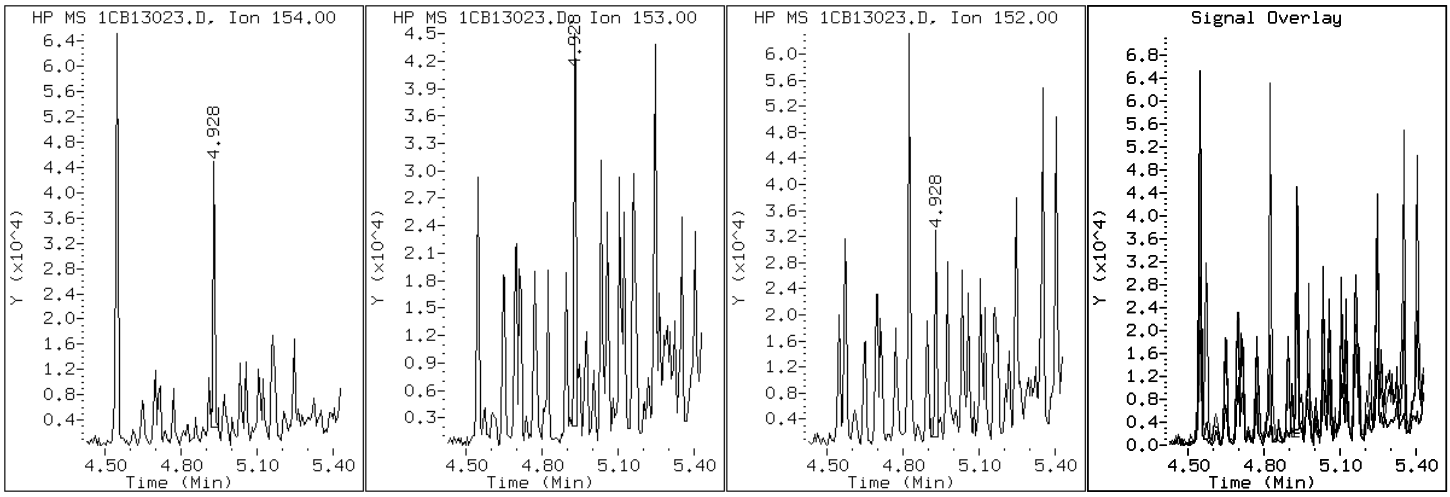
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

7 Acenaphthene



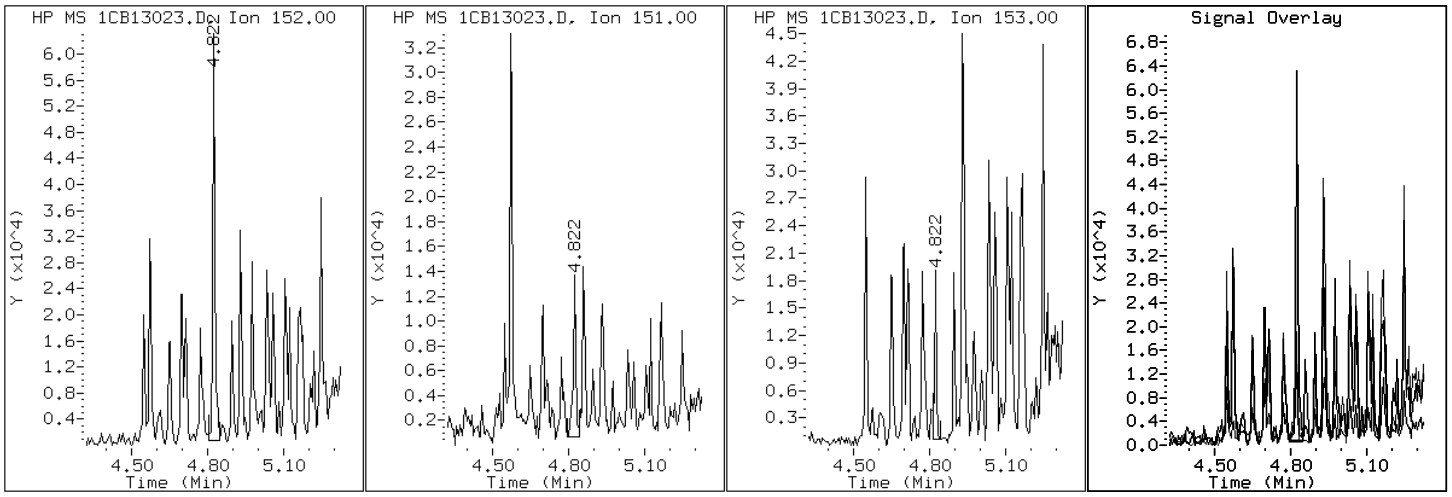
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

5 Acenaphthylene



Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

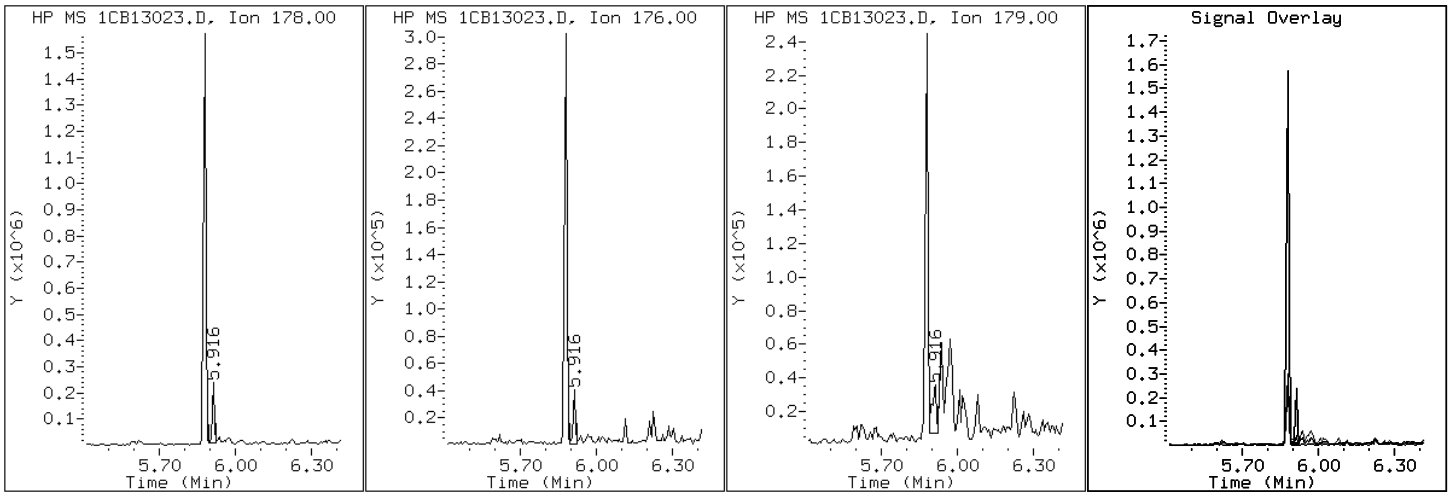
Client ID: CV0127A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a

Operator: SCC

12 Anthracene



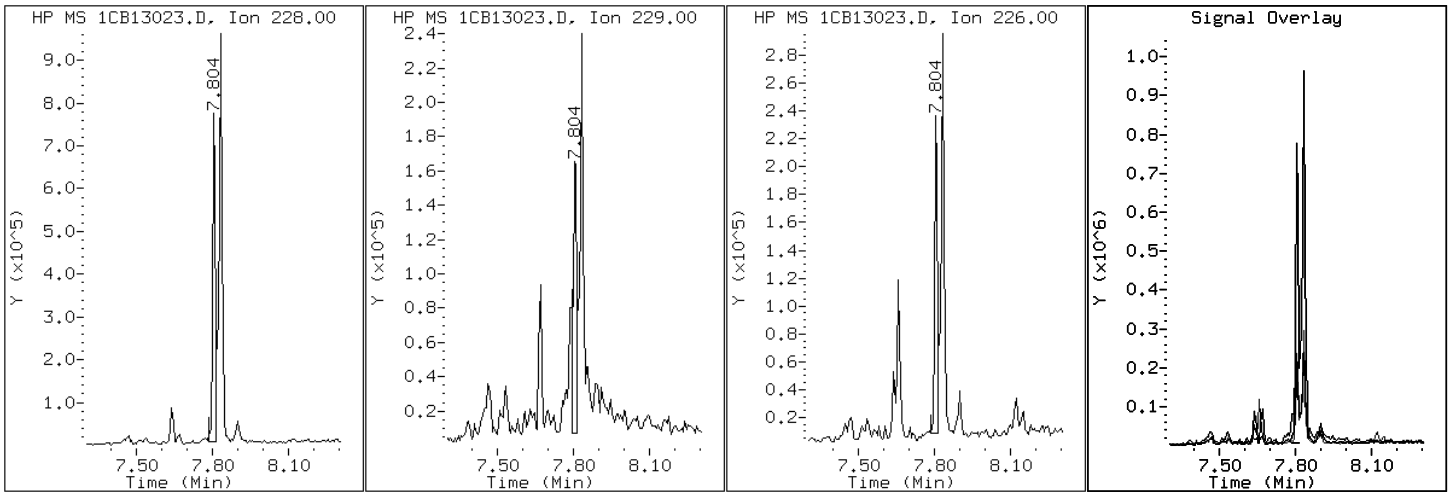
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

17 Benzo(a)anthracene



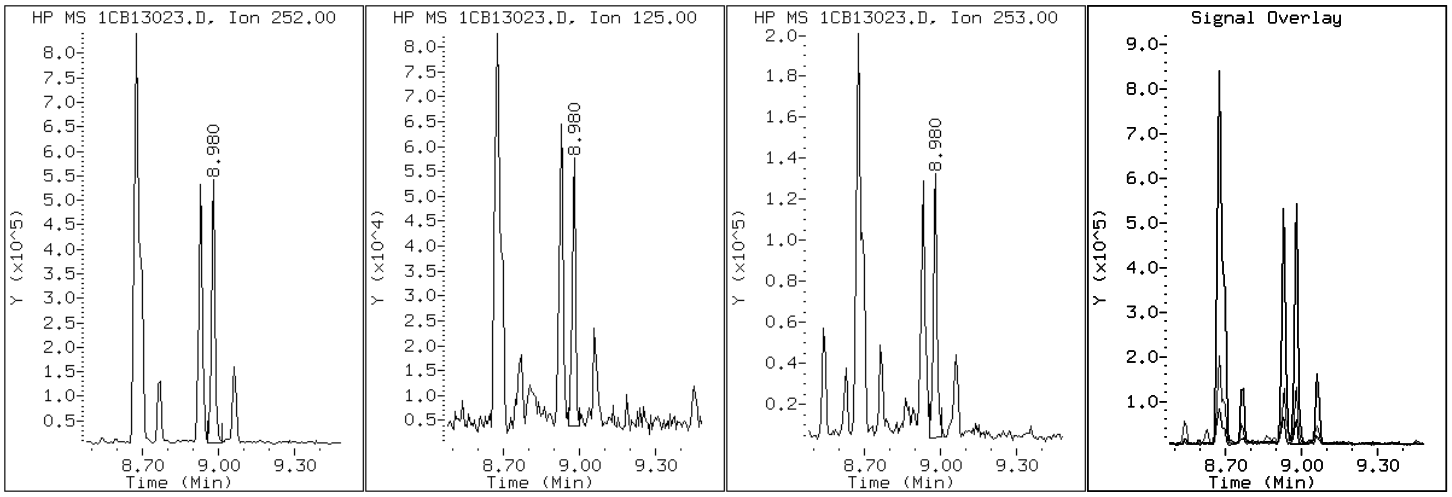
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

22 Benzo(a)pyrene



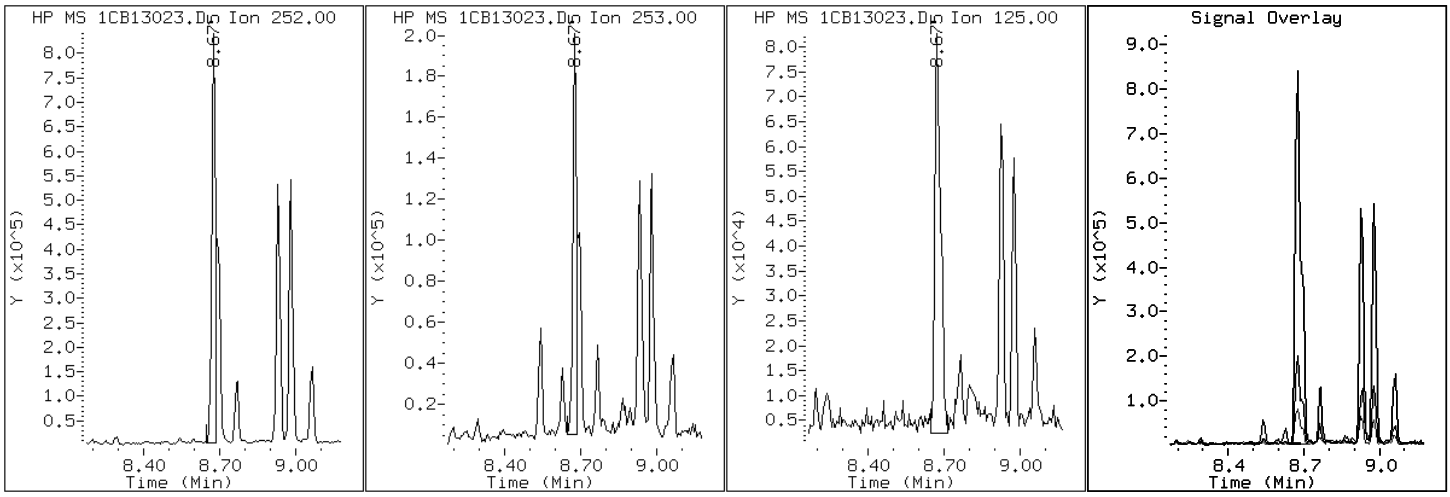
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

20 Benzo(b)fluoranthene



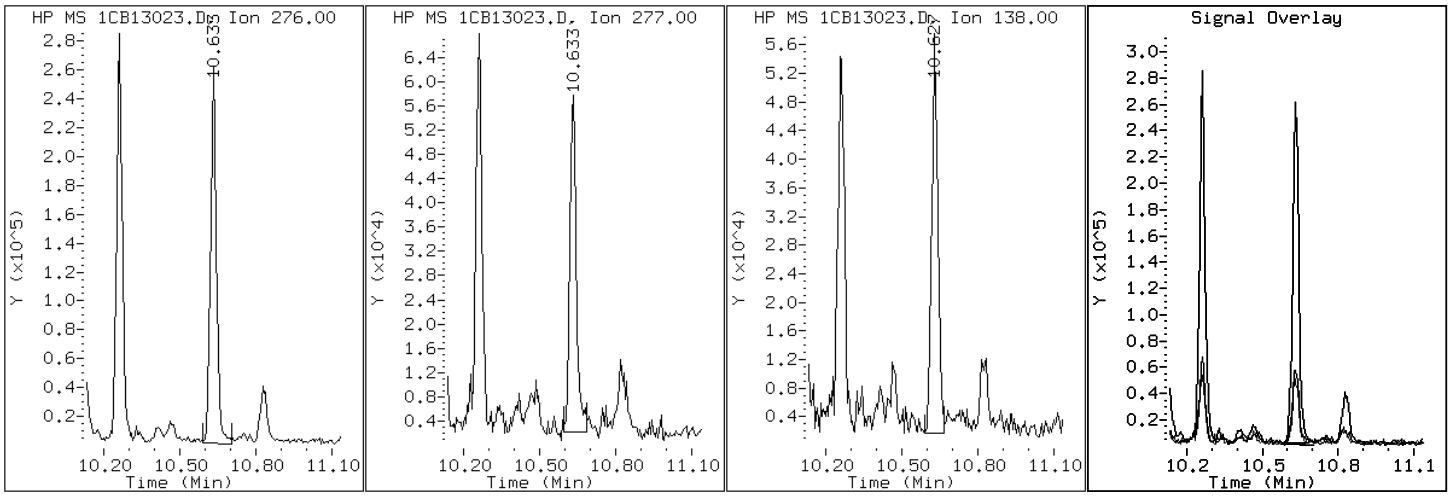
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

26 Benzo(g,h,i)perylene



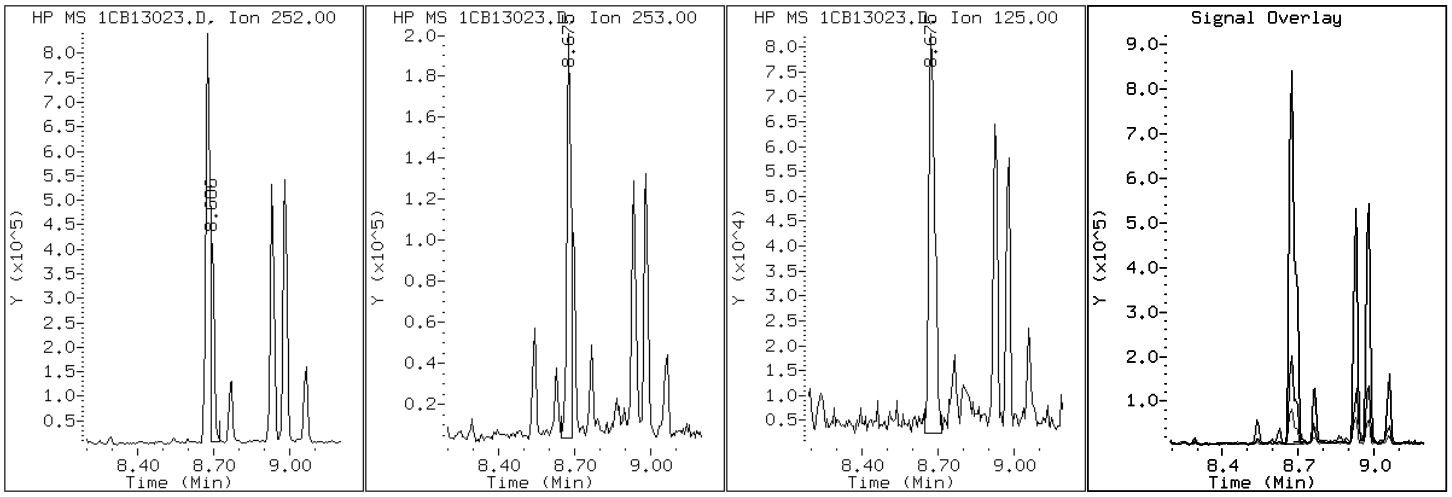
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

21 Benzo(k)fluoranthene



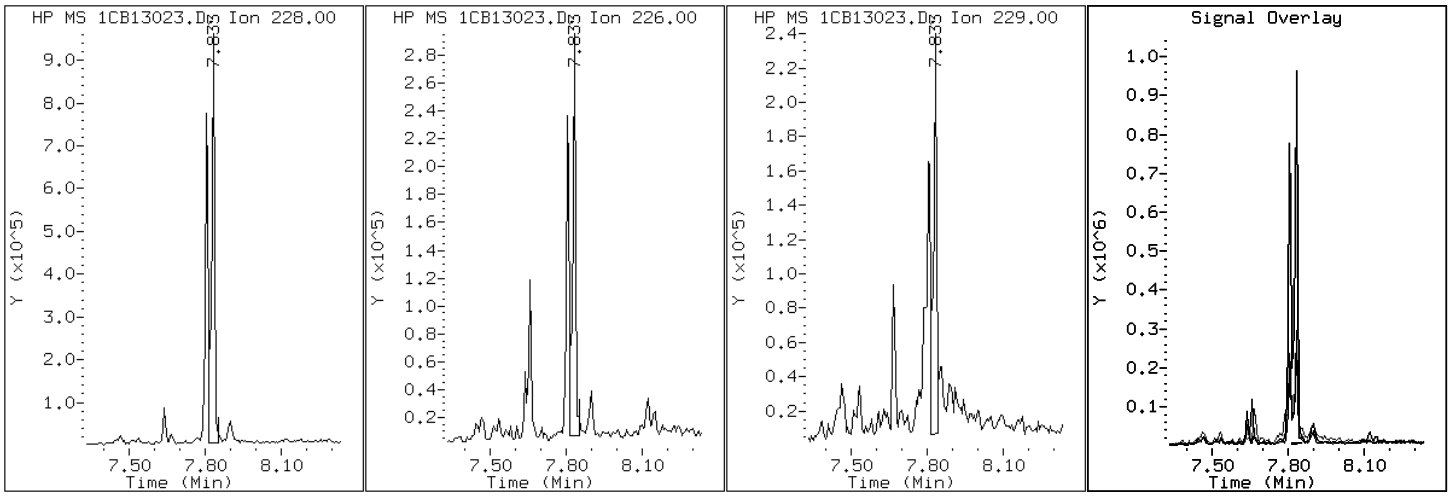
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

19 Chrysene



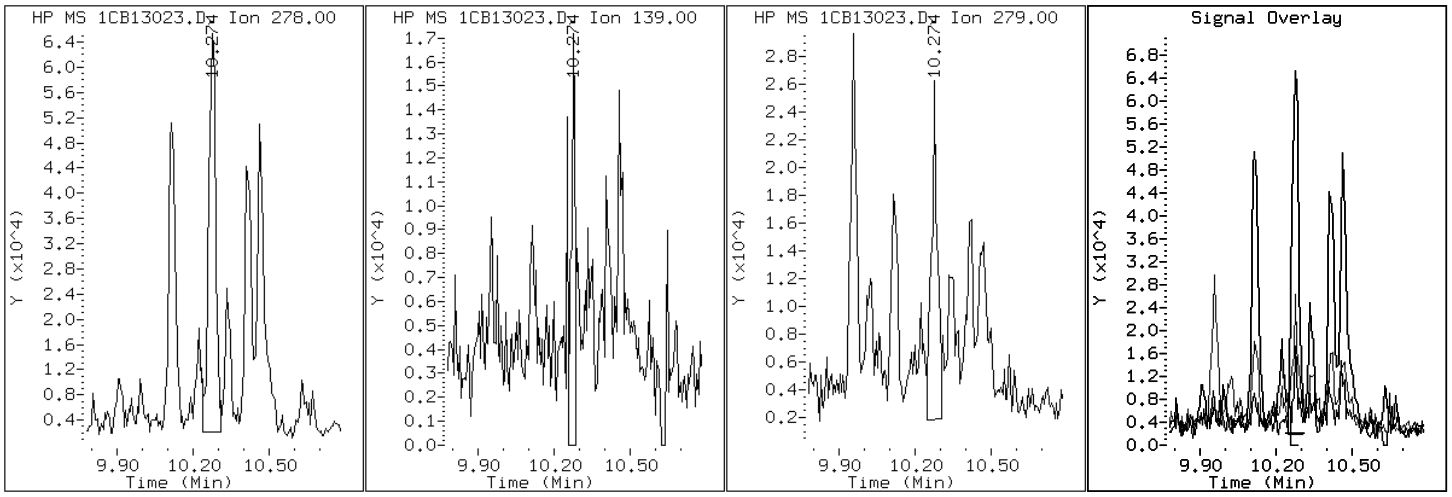
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

25 Dibenzo(a,h)anthracene



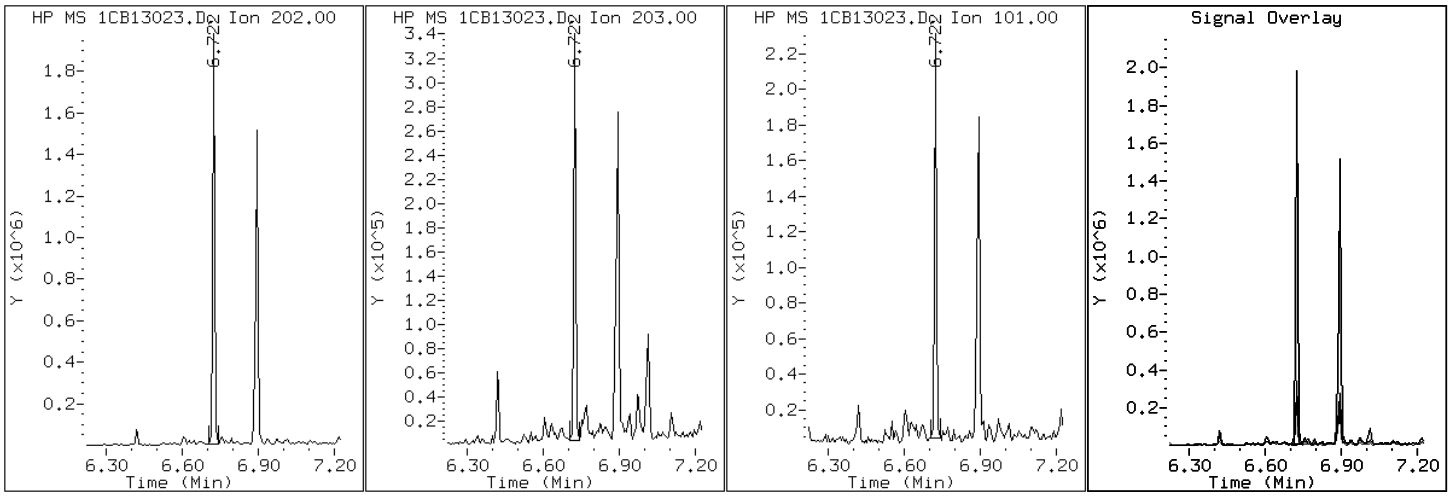
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

15 Fluoranthene



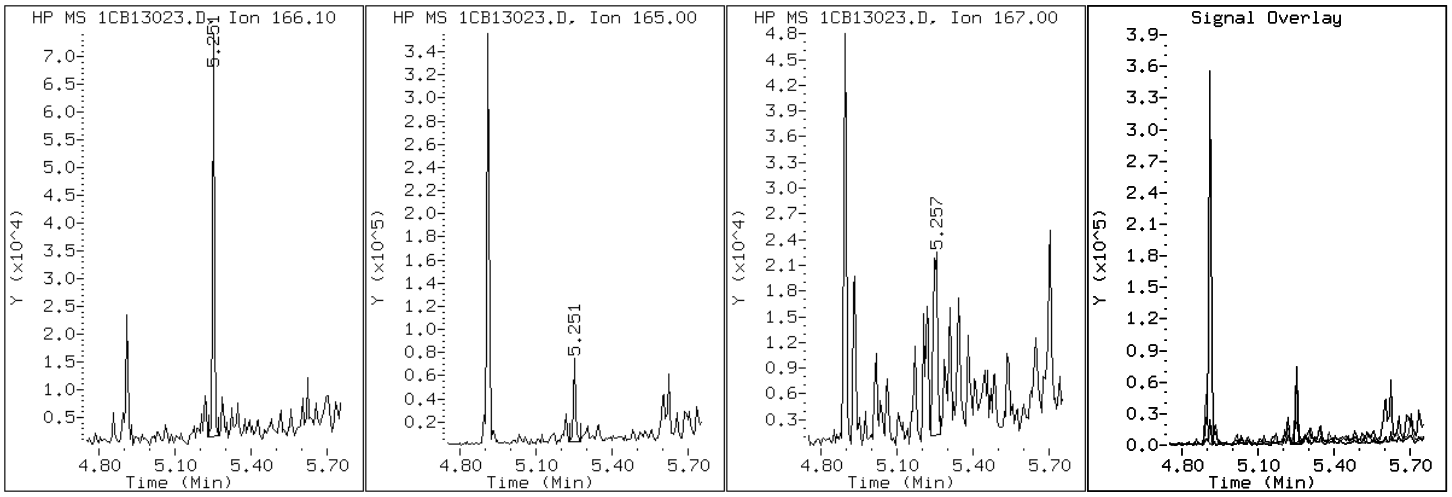
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

9 Fluorene



Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

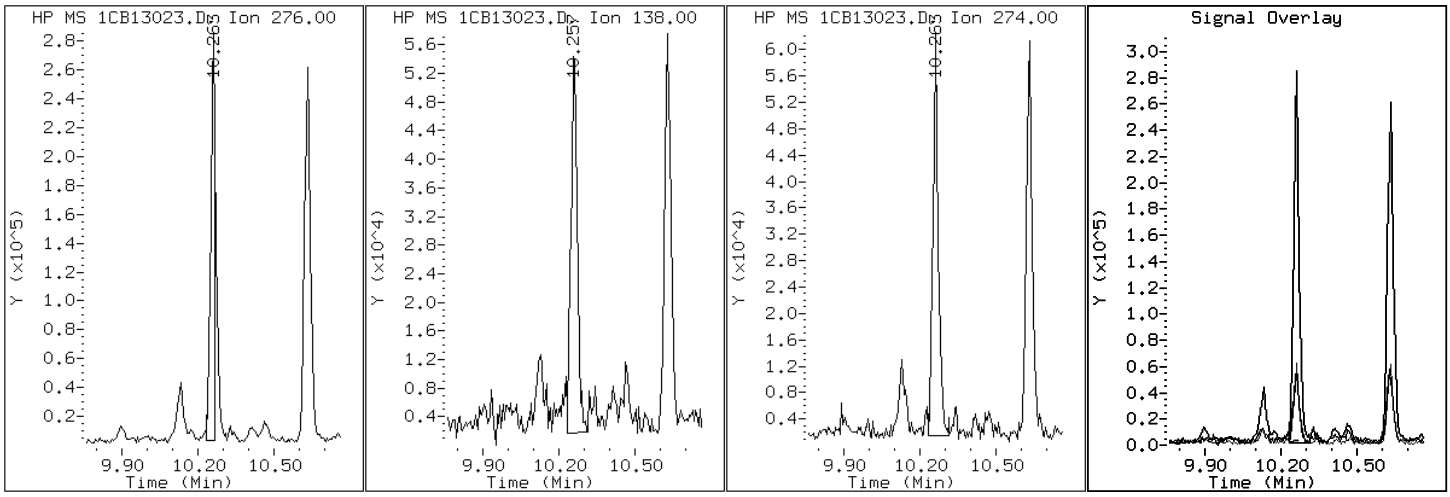
Client ID: CV0127A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a

Operator: SCC

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



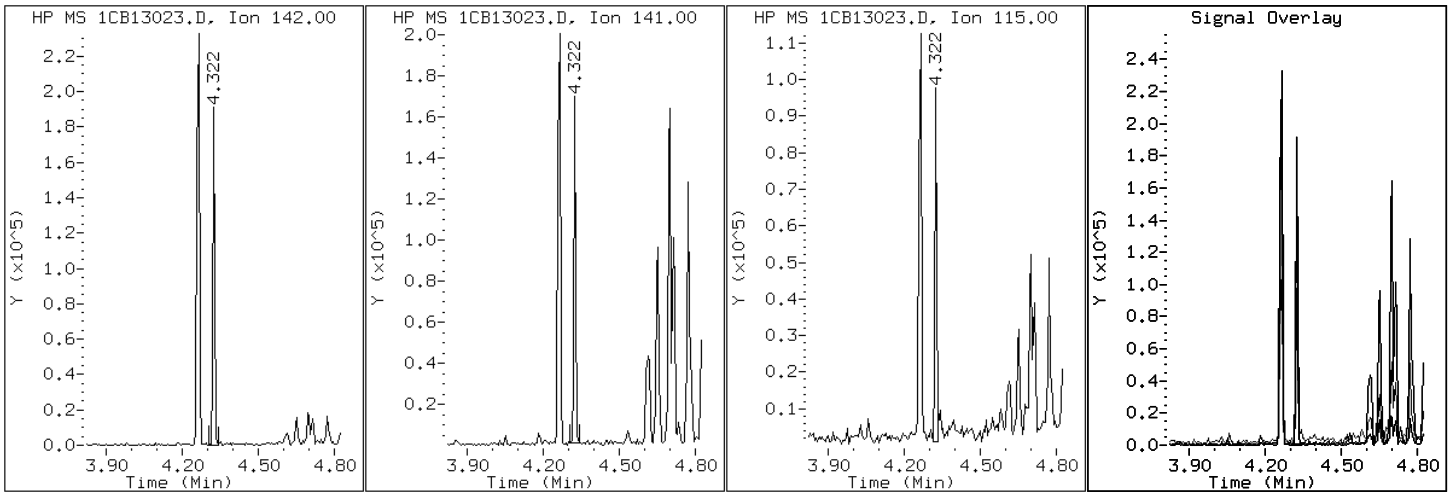
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

4 1-Methylnaphthalene



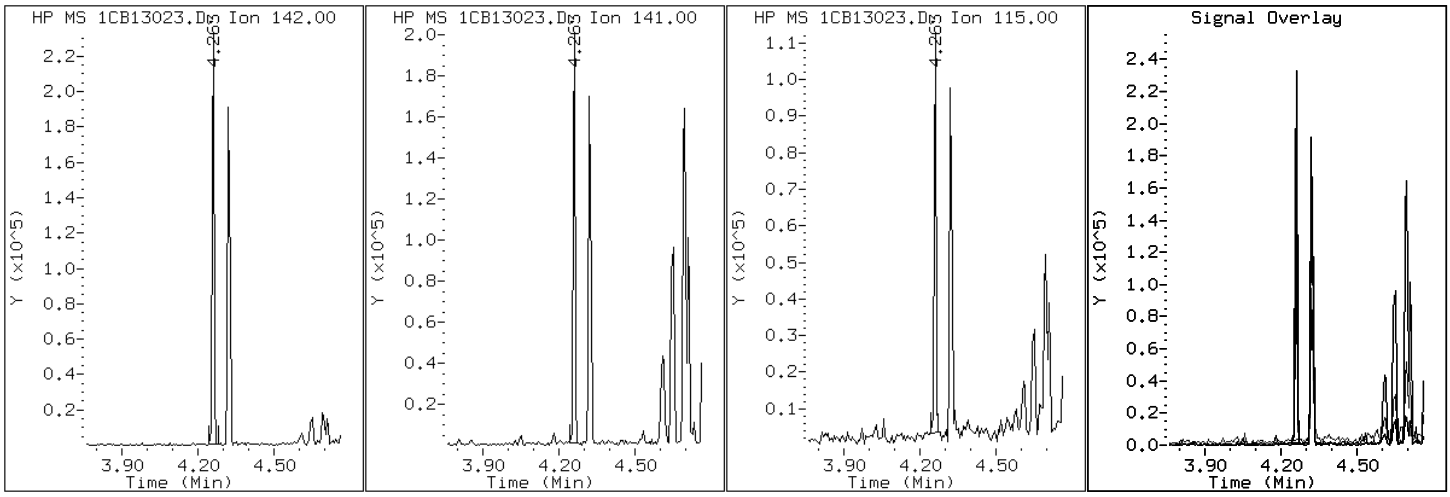
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

3 2-Methylnaphthalene



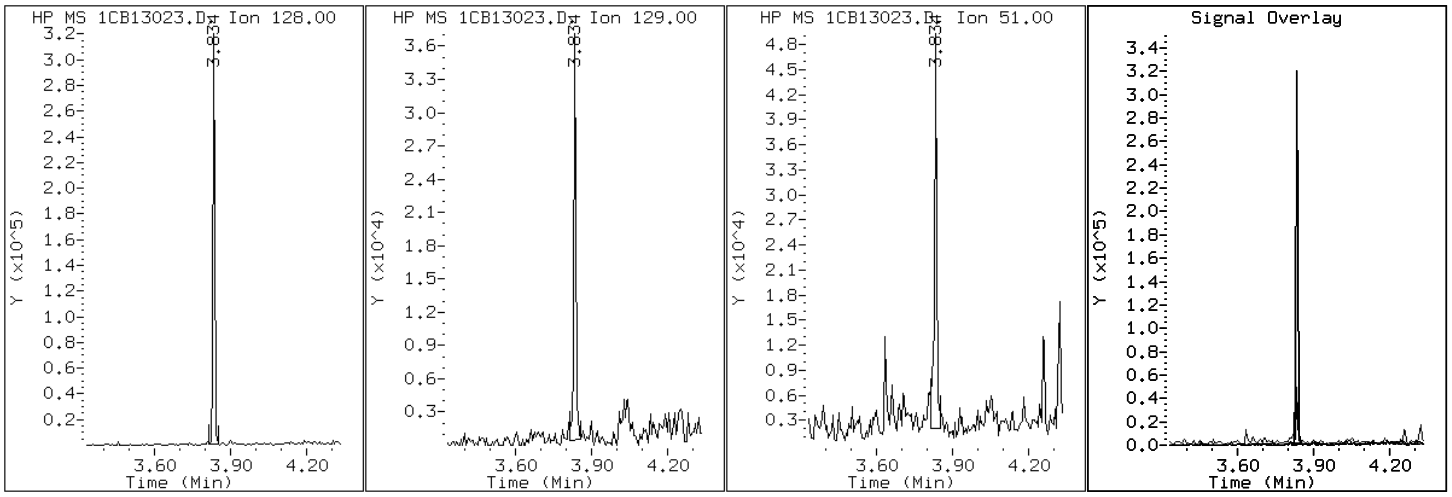
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

2 Naphthalene



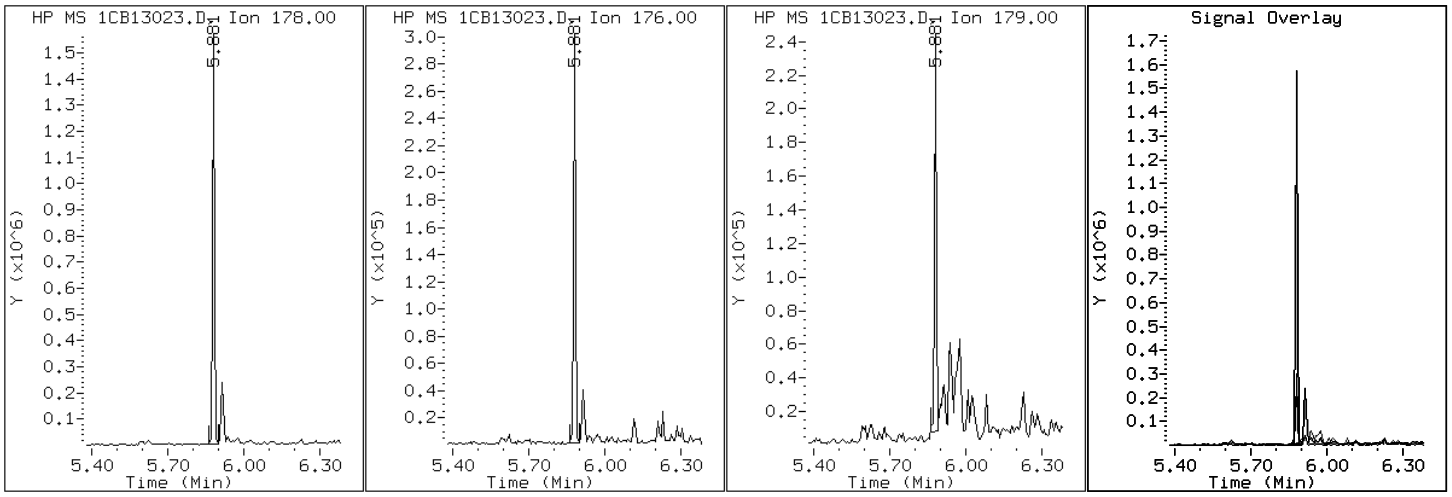
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

11 Phenanthrene



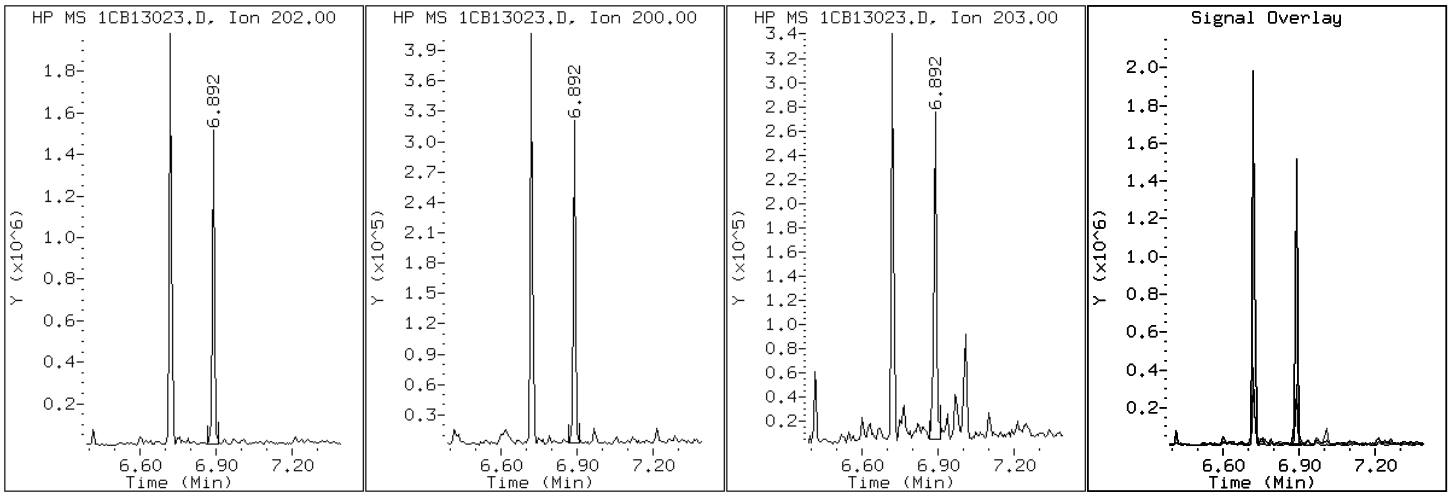
Data File: 1CB13023.D

Date: 13-FEB-2013 18:00

Client ID: CV0127A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-1-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB13023.D
Inj. Date and Time: 13-FEB-2013 18:00
Instrument ID: BSMC5973.i
Client ID: CV0127A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

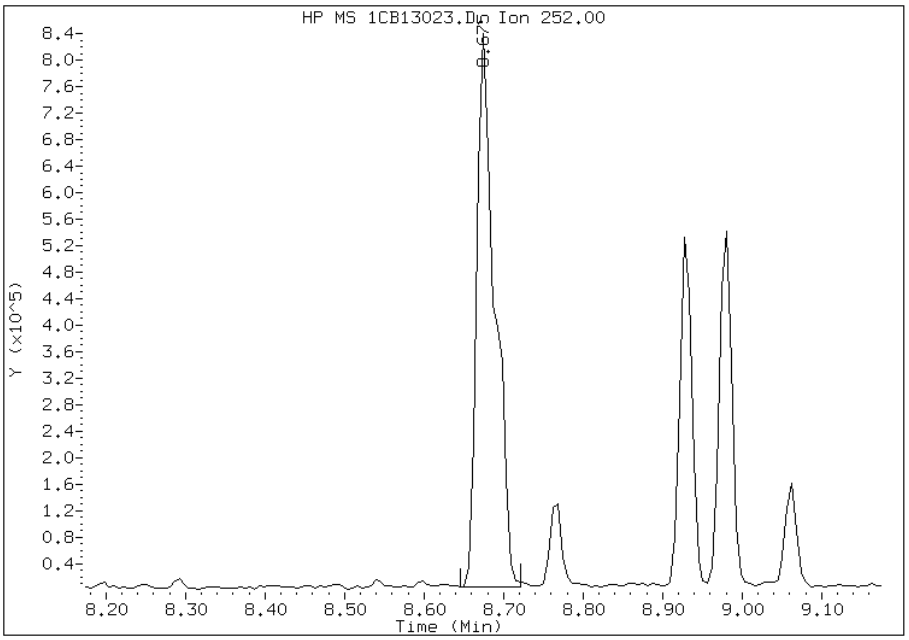
Processing Integration Results

RT: 8.67

Response: 1323107

Amount: 17

Conc: 1398



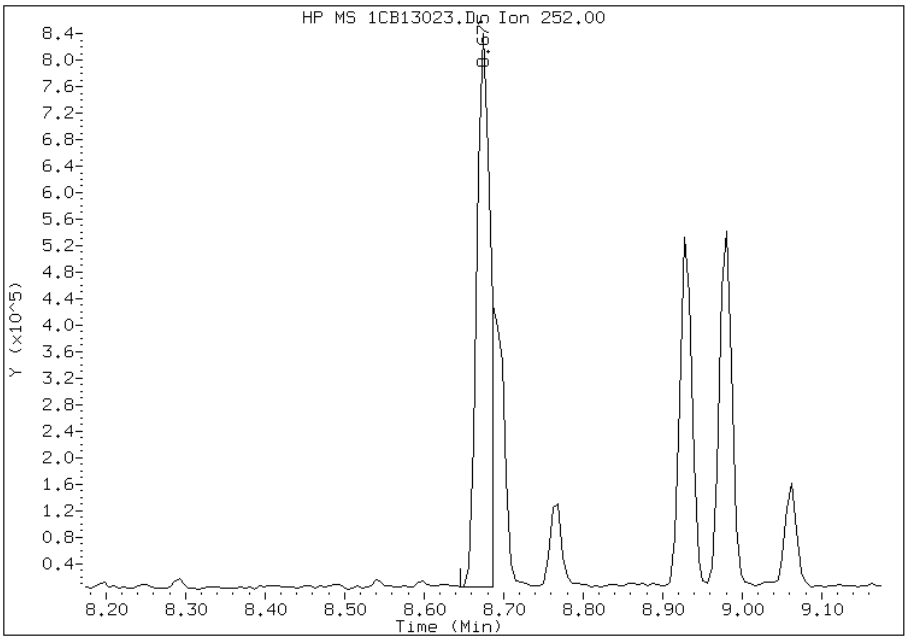
Manual Integration Results

RT: 8.67

Response: 987793

Amount: 13

Conc: 1044



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:00
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB13023.D
Inj. Date and Time: 13-FEB-2013 18:00
Instrument ID: BSMC5973.i
Client ID: CV0127A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

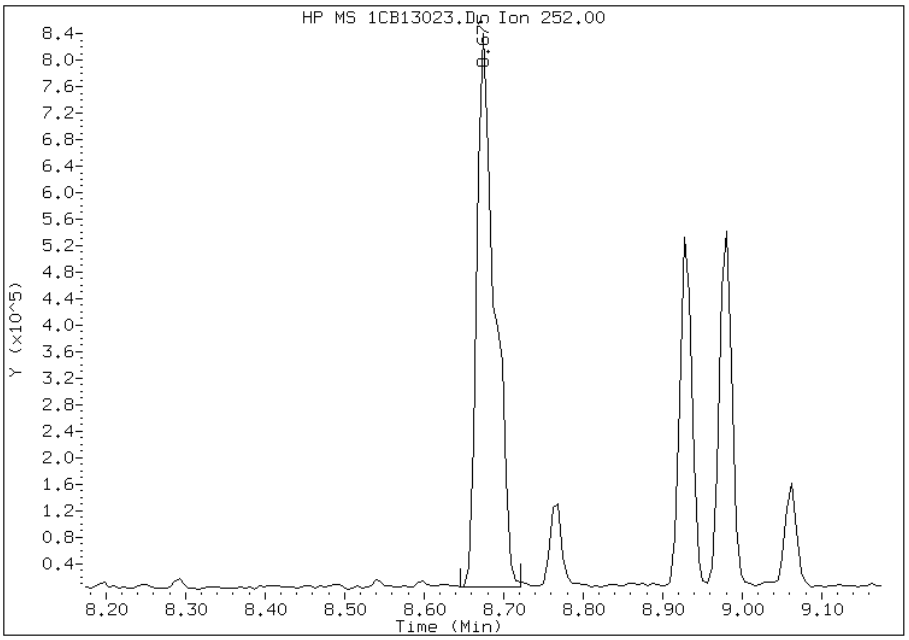
Processing Integration Results

RT: 8.67

Response: 1323107

Amount: 15

Conc: 1269



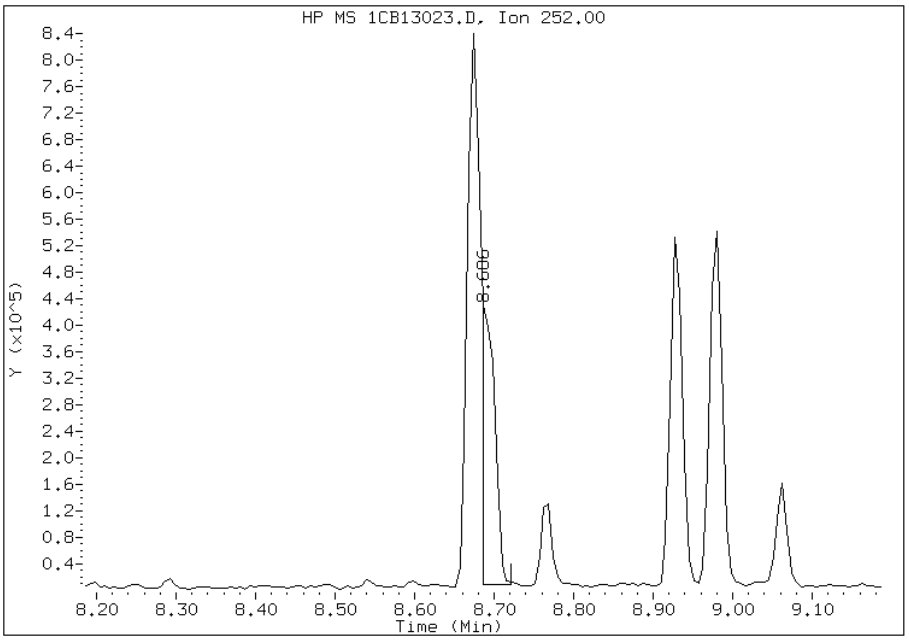
Manual Integration Results

RT: 8.69

Response: 476044

Amount: 6

Conc: 457



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:00
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB13023.D
Inj. Date and Time: 13-FEB-2013 18:00
Instrument ID: BSMC5973.i
Client ID: CV0127A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

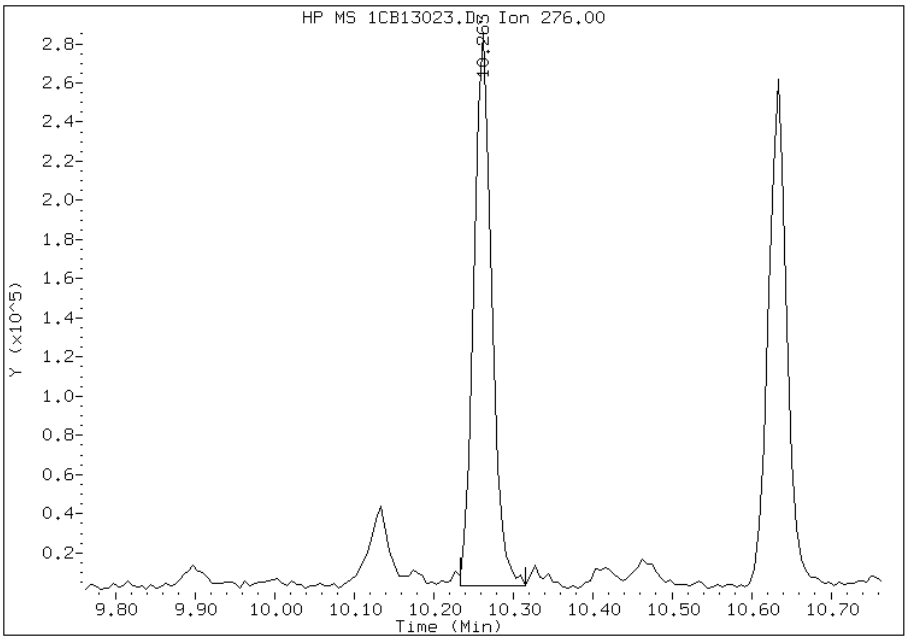
Processing Integration Results

RT: 10.26

Response: 436230

Amount: 6

Conc: 504



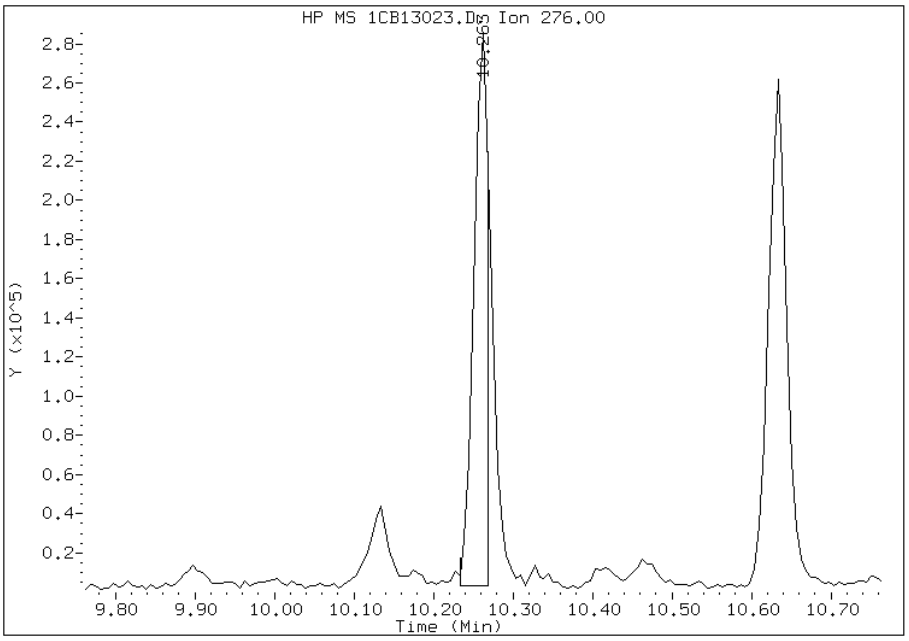
Manual Integration Results

RT: 10.26

Response: 346866

Amount: 5

Conc: 401



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:01
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0127B-CS-SP | Lab Sample ID: 680-87218-2

Matrix: Solid | Lab File ID: 1CB13024.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 10:24

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.00(g) | Date Analyzed: 02/13/2013 18:18

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

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

% Moisture: 40.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	170	U	170	34
208-96-8	Acenaphthylene	21	J	68	8.5
120-12-7	Anthracene	59		14	7.1
56-55-3	Benzo[a]anthracene	250		14	6.6
50-32-8	Benzo[a]pyrene	250		18	8.8
205-99-2	Benzo[b]fluoranthene	420		21	10
191-24-2	Benzo[g,h,i]perylene	190		34	7.4
207-08-9	Benzo[k]fluoranthene	150		14	6.1
218-01-9	Chrysene	320		15	7.6
53-70-3	Dibenz(a,h)anthracene	61		34	6.9
206-44-0	Fluoranthene	490		34	6.8
86-73-7	Fluorene	29	J	34	6.9
193-39-5	Indeno[1,2,3-cd]pyrene	170		34	12
90-12-0	1-Methylnaphthalene	150		68	7.4
91-57-6	2-Methylnaphthalene	250		68	12
91-20-3	Naphthalene	310		68	7.4
85-01-8	Phenanthrene	310	B	14	6.6
129-00-0	Pyrene	400		34	6.3

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13024.D
Lab Smp Id: 680-87218-A-2-A Client Smp ID: CV0127B-CS-SP
Inj Date : 13-FEB-2013 18:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-2-a
Misc Info : 680-87218-A-2-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 24
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	40.845	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.822	3.821	(1.000)	2123653	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1686321	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3080213	40.0000	
$ 14 o-Terphenyl	230	6.116	6.115	(1.043)	356982	7.90970	891.4110
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3398154	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3310445	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	157016	2.79020	314.4514
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	80648	2.20406	248.3935
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	43721	1.31378	148.0610
5 Acenaphthylene	152	4.821	4.821	(0.982)	12705	0.18938	21.3423
9 Fluorene	166	5.251	5.251	(1.069)	13992	0.25905	29.1945
11 Phenanthrene	178	5.880	5.880	(1.003)	255421	2.77806	313.0827
12 Anthracene	178	5.916	5.915	(1.009)	43286	0.52254	58.8898
13 Carbazole	167	6.021	6.021	(1.027)	29484	0.40976	46.1794

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	386945	4.30703	485.3952
16 Pyrene	202	6.892	6.892	(0.882)	317518	3.50976	395.5443
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	205819	2.19637	247.5271
19 Chrysene	228	7.833	7.833	(1.002)	276166	2.85307	321.5360
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	302425	3.72622	419.9392(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	120638	1.34922	152.0554(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	171596	2.22190	250.4041
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	113195	1.52601	171.9783(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	38129	0.54509	61.4302
26 Benzo(g,h,i)perylene	276	10.621	10.633	(1.176)	126326	1.67654	188.9430

QC Flag Legend

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

Data File: 1CB13024.D

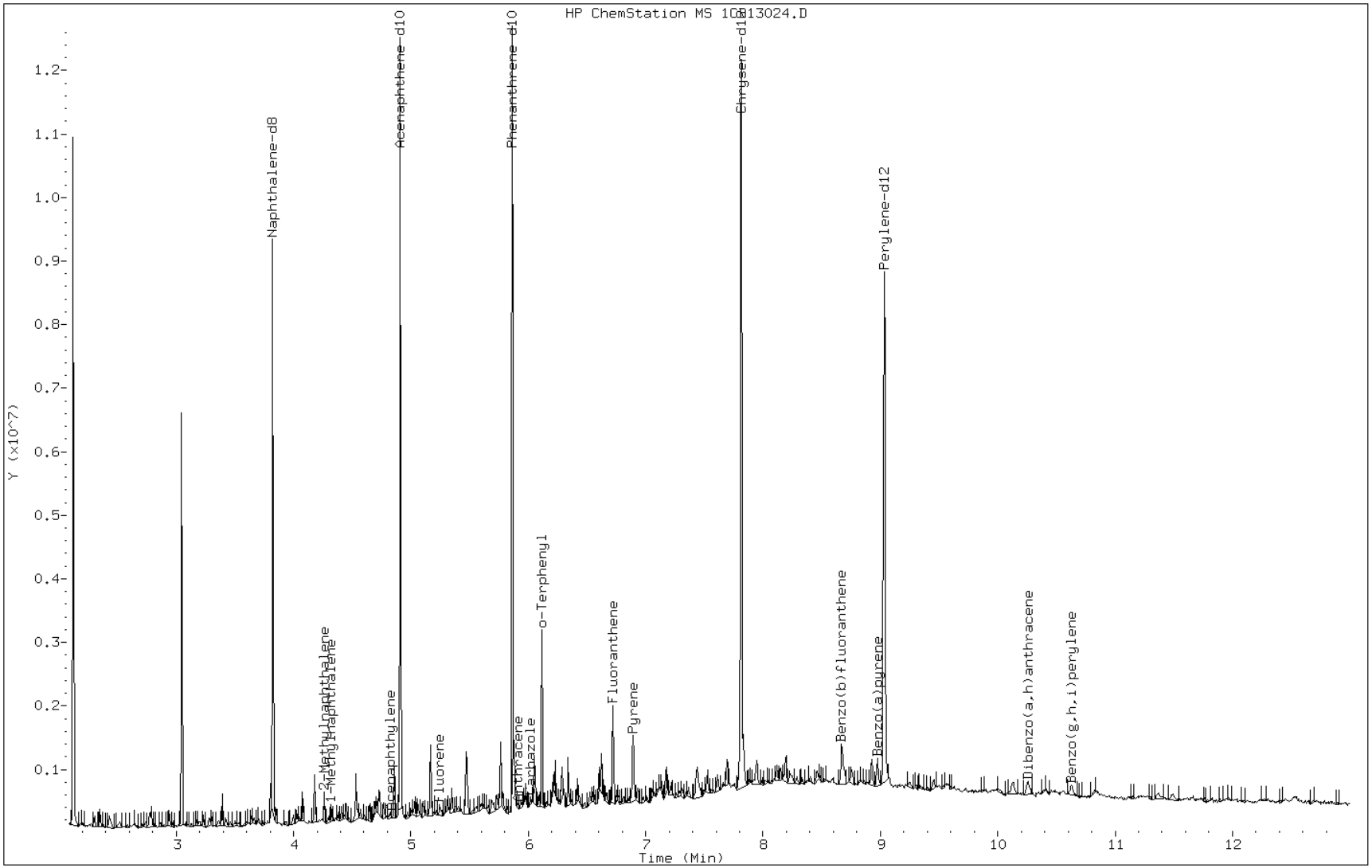
Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a

Operator: SCC



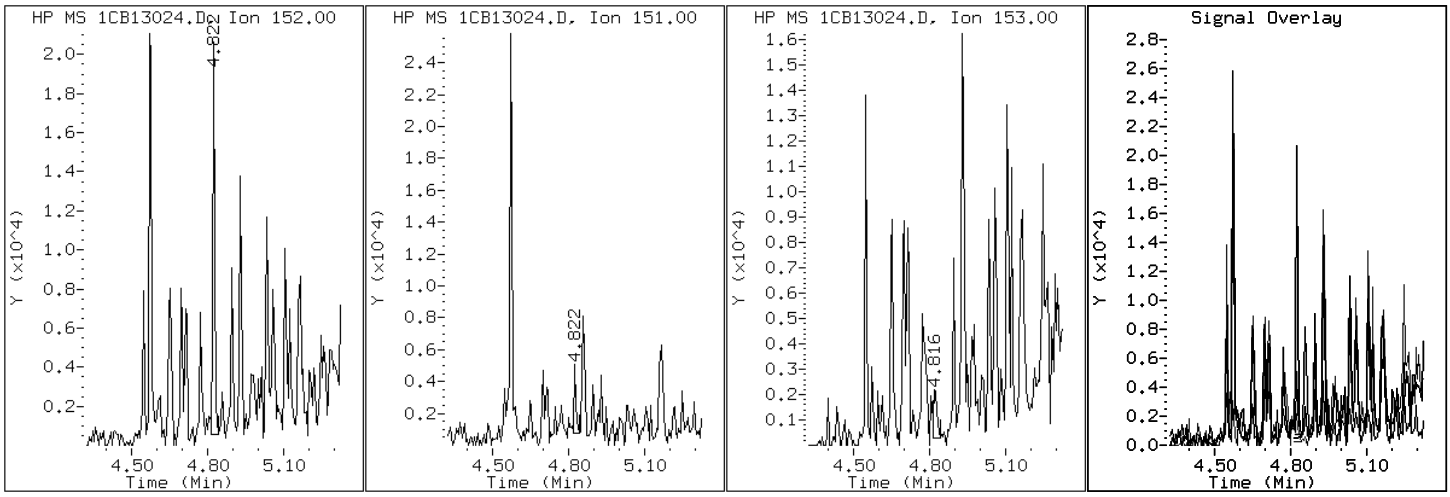
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

5 Acenaphthylene



Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

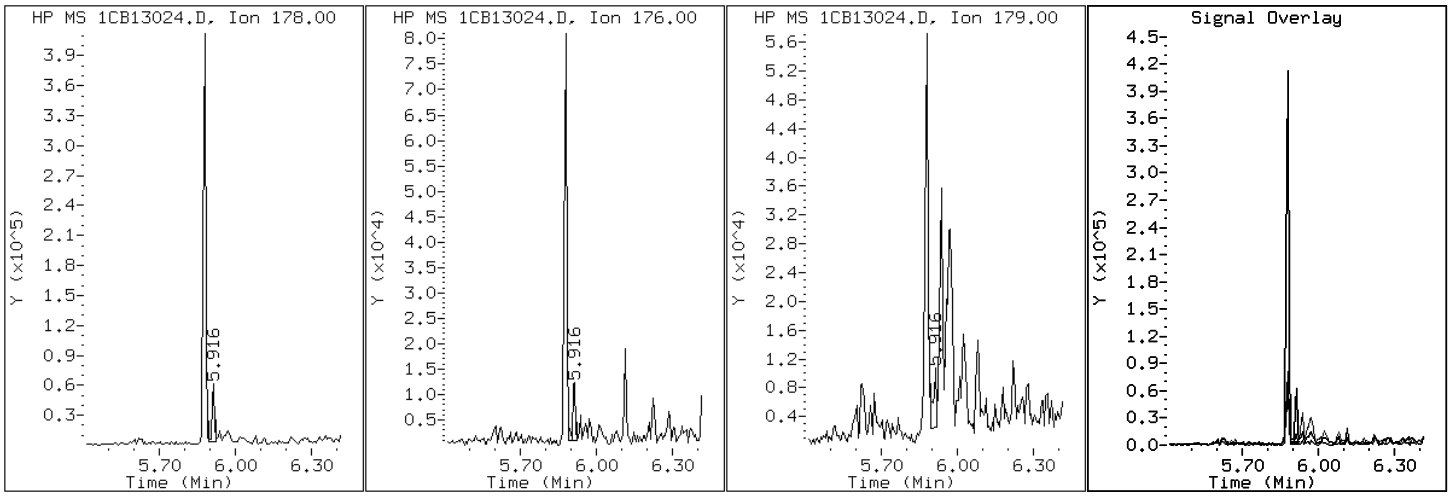
Client ID: CV0127B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a

Operator: SCC

12 Anthracene



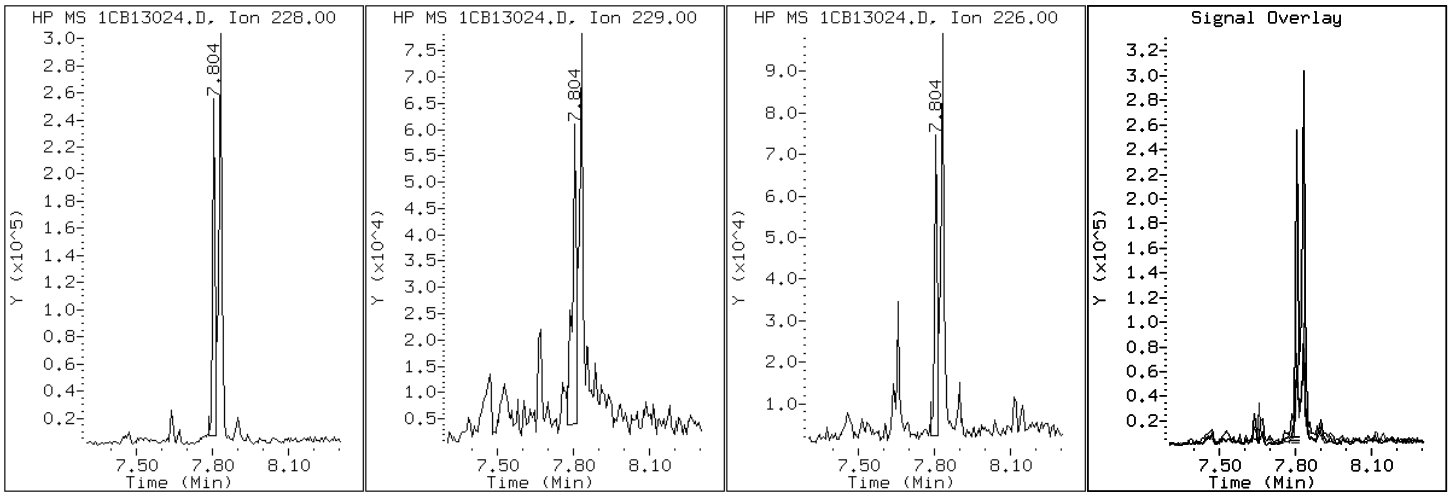
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

17 Benzo(a)anthracene



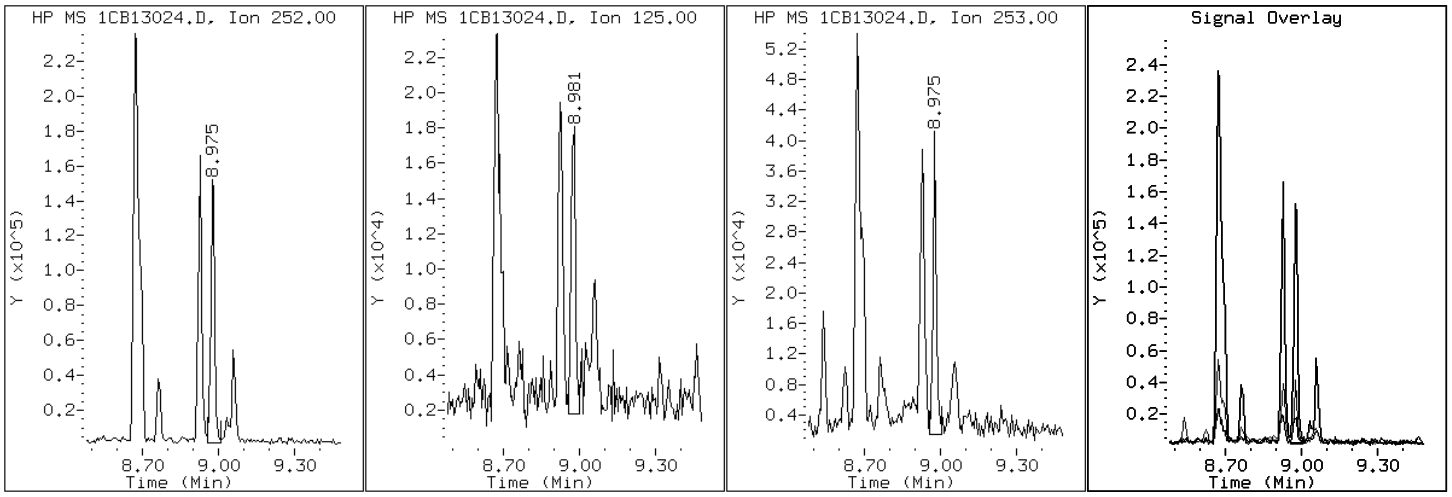
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP | Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a | Operator: SCC

22 Benzo(a)pyrene



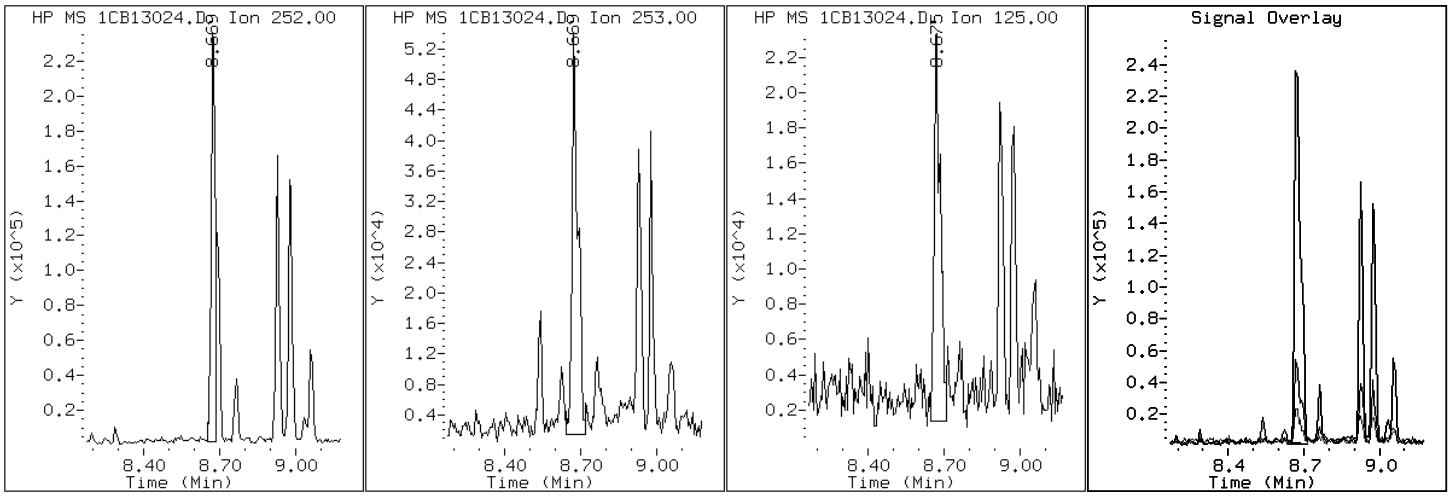
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

20 Benzo(b)fluoranthene



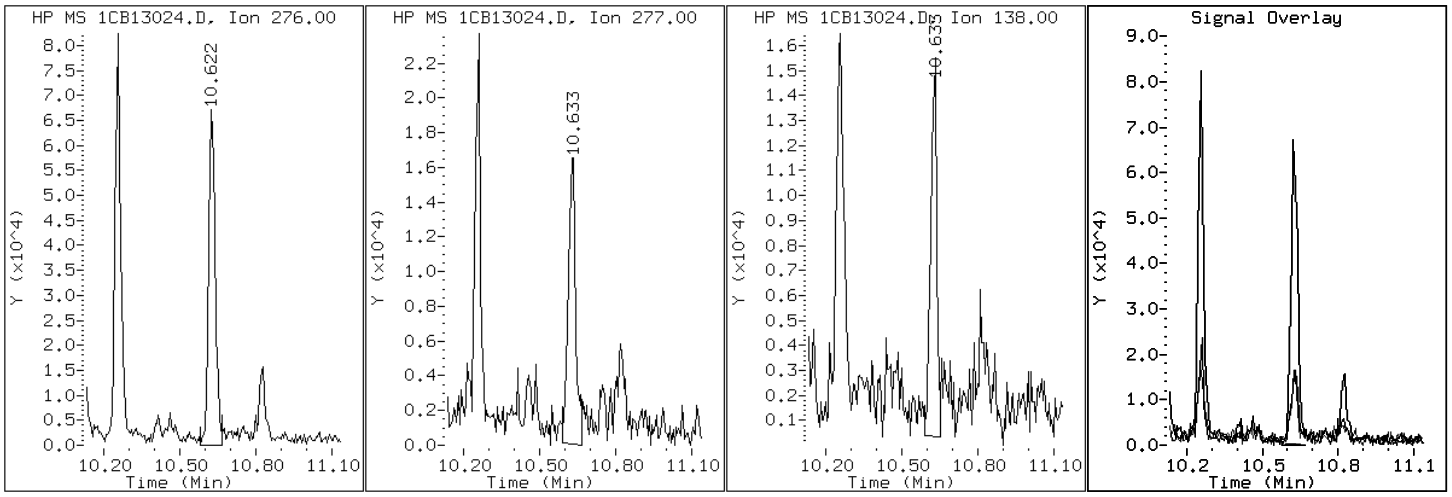
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

26 Benzo(g,h,i)perylene



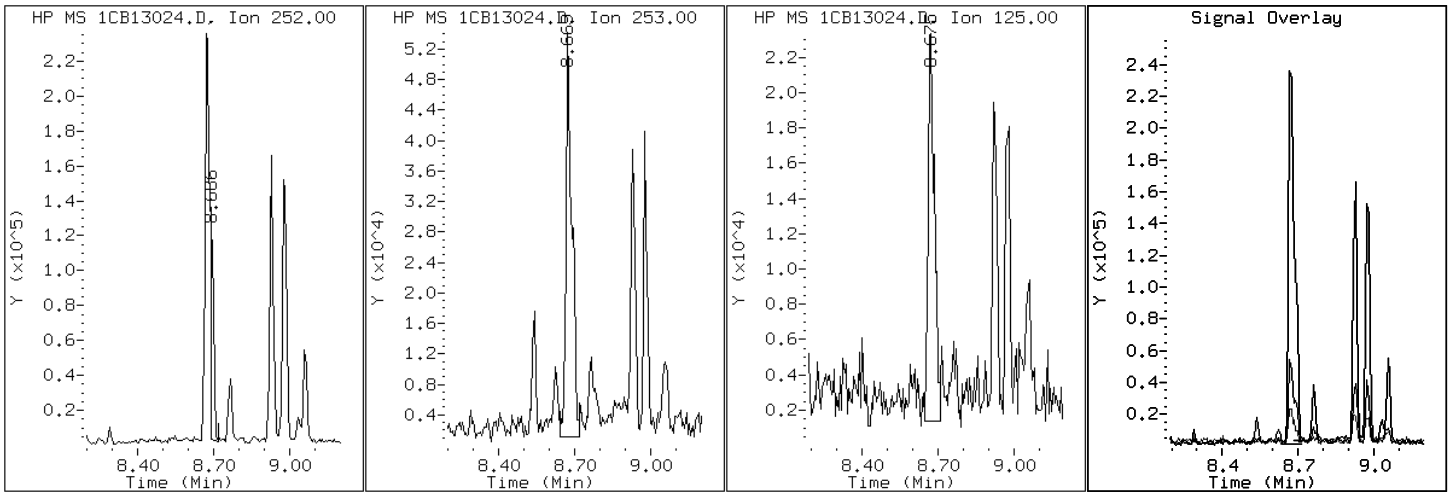
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

21 Benzo(k)fluoranthene



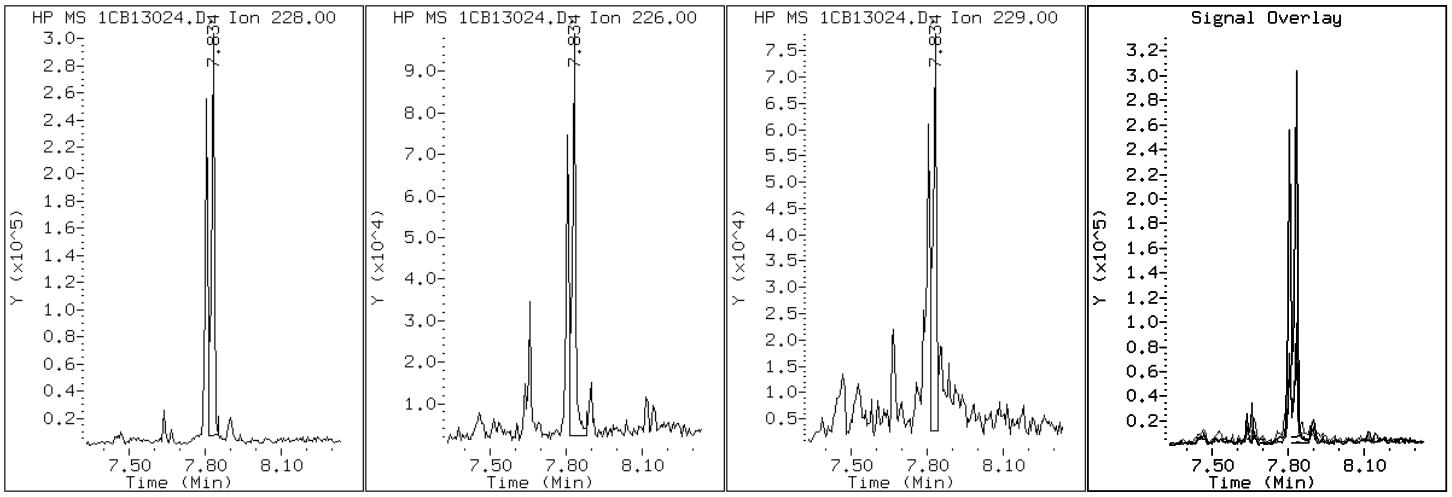
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

19 Chrysene



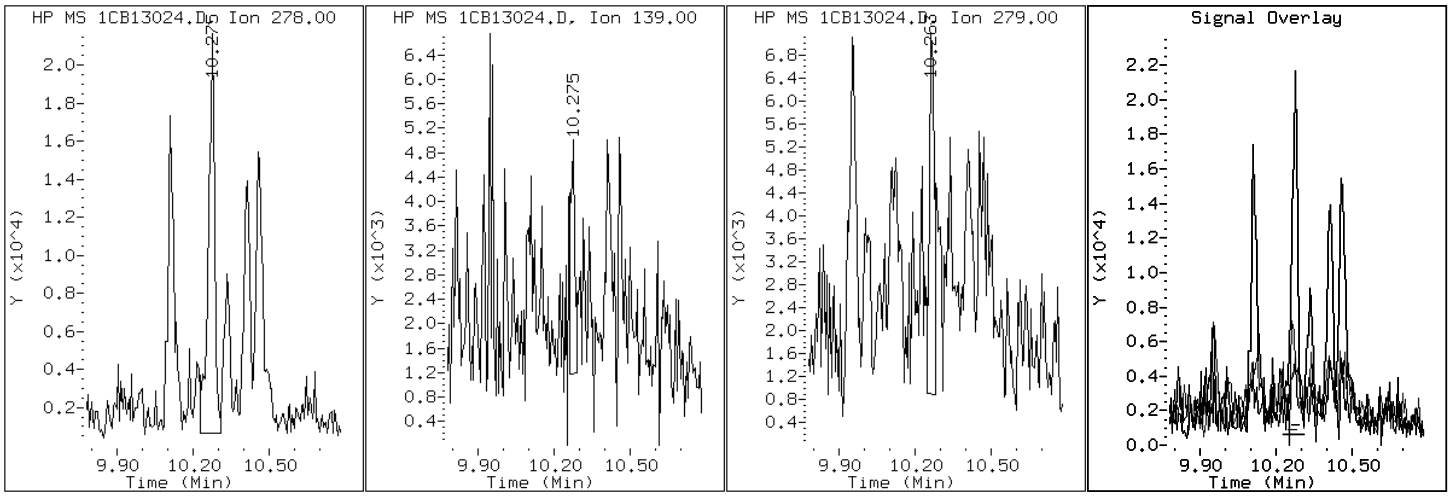
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

25 Dibenzo(a,h)anthracene



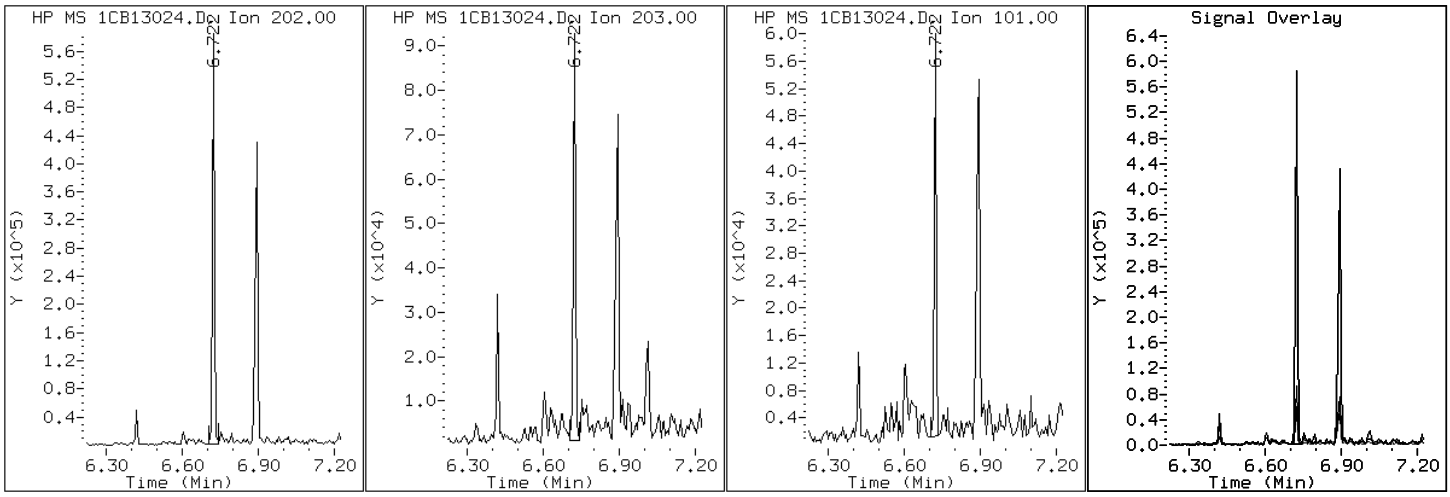
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

15 Fluoranthene



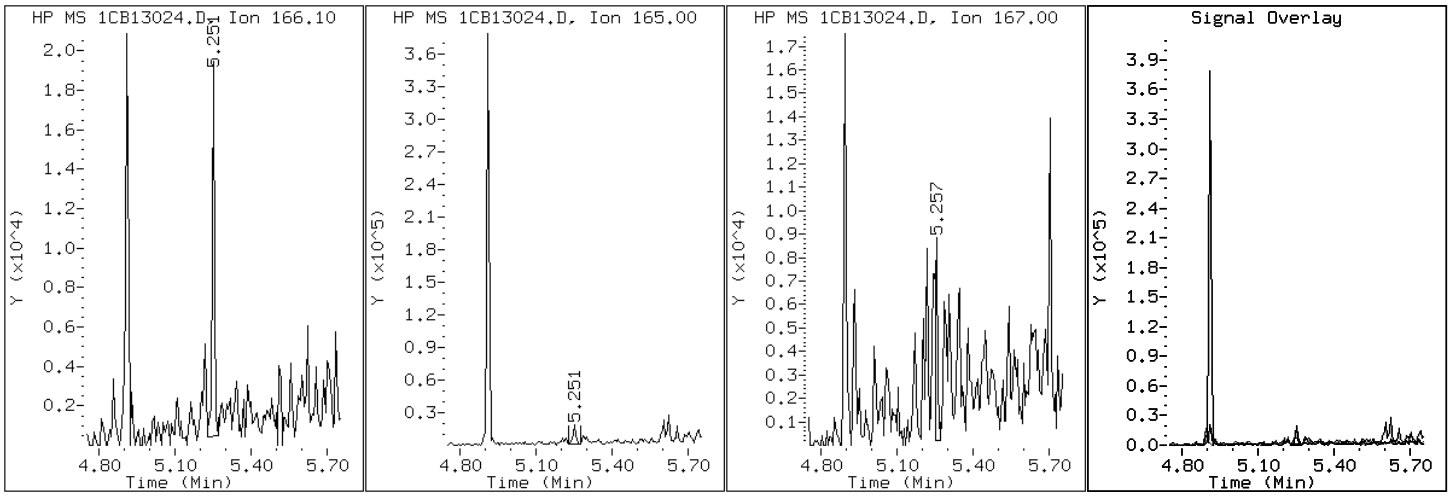
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

9 Fluorene



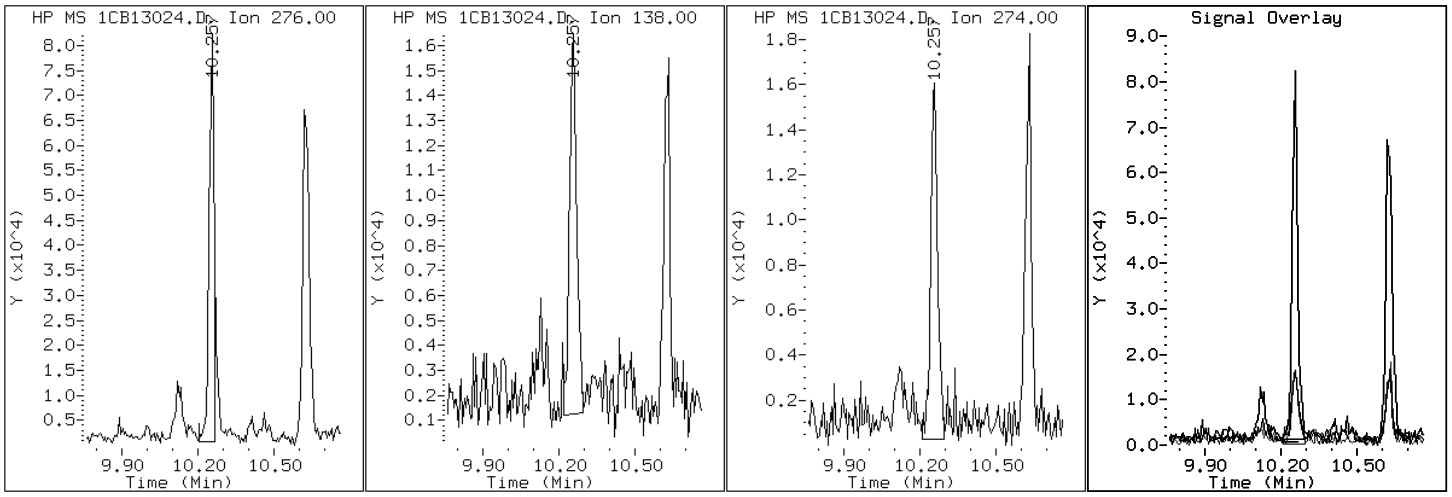
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

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



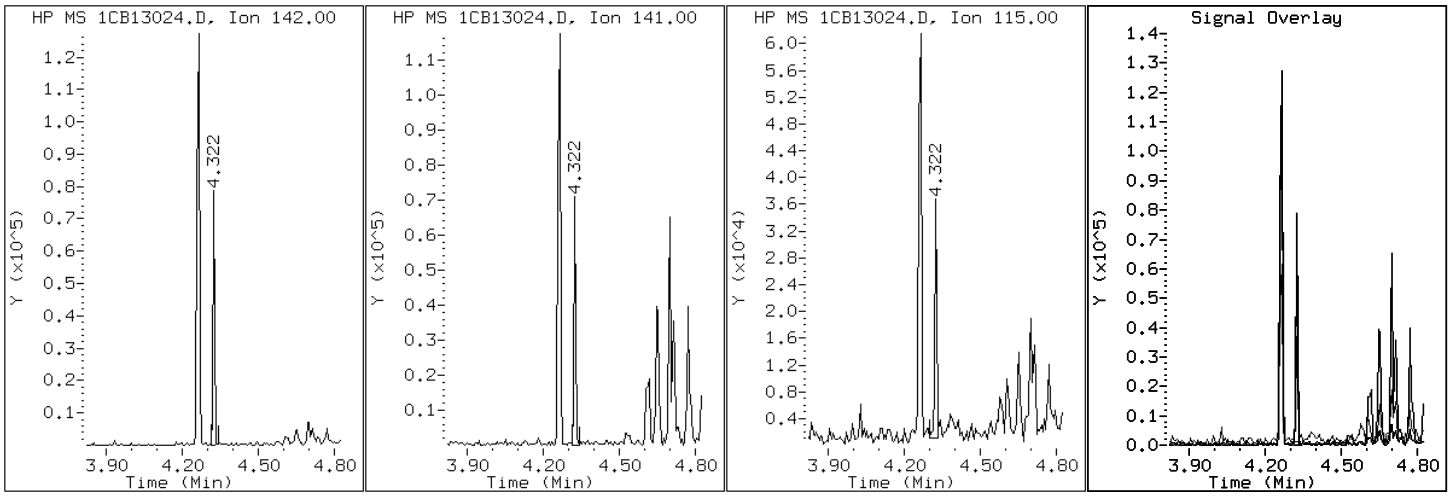
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

4 1-Methylnaphthalene



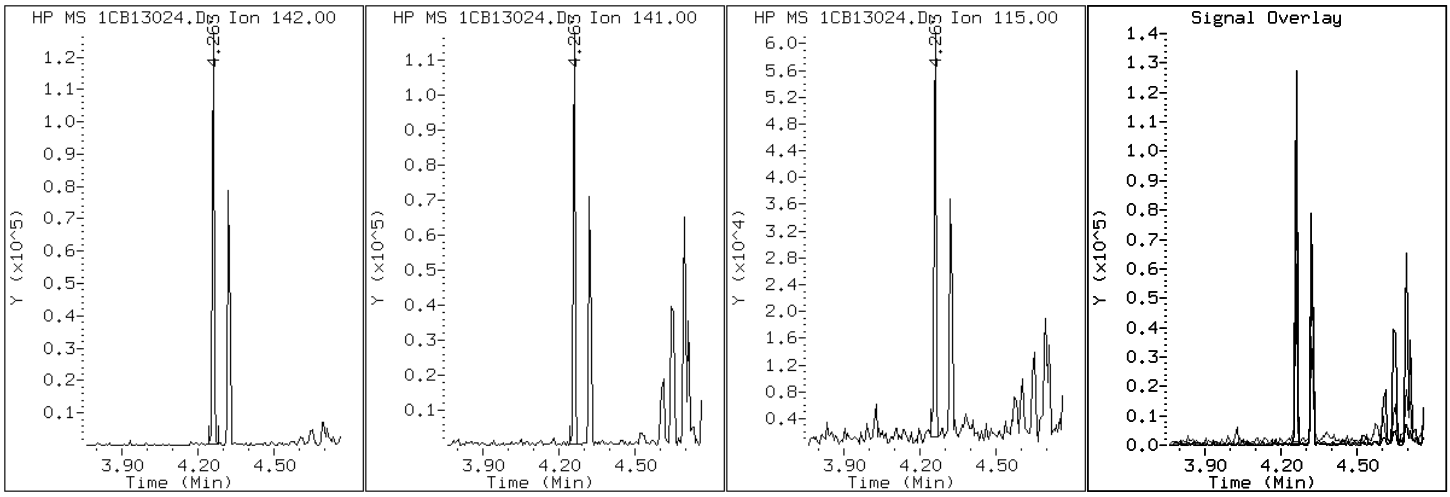
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

3 2-Methylnaphthalene



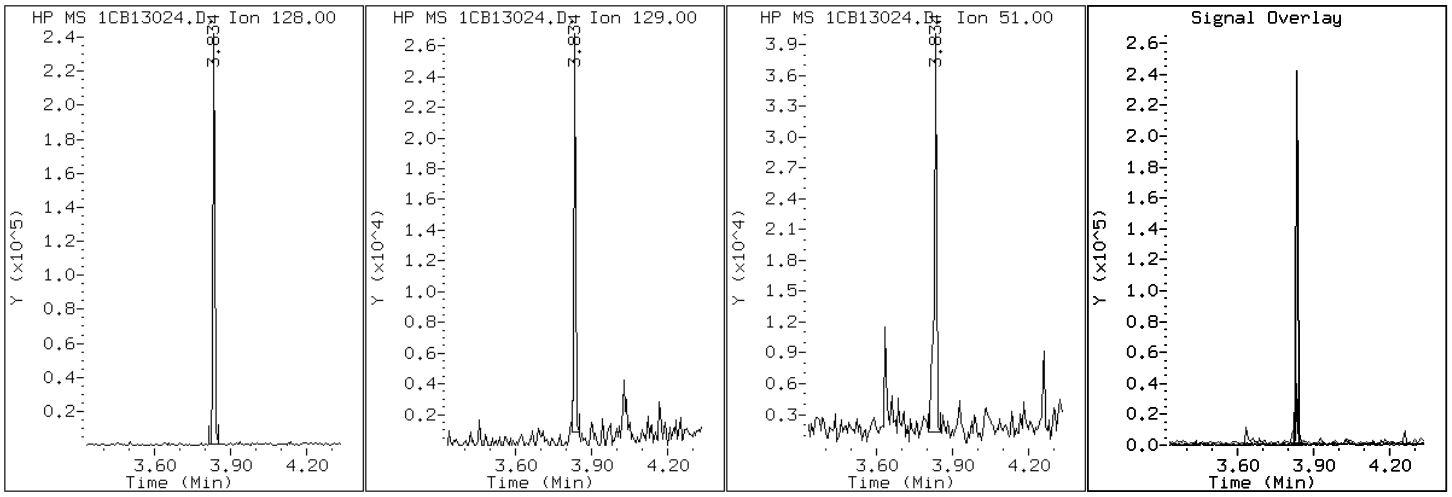
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

2 Naphthalene



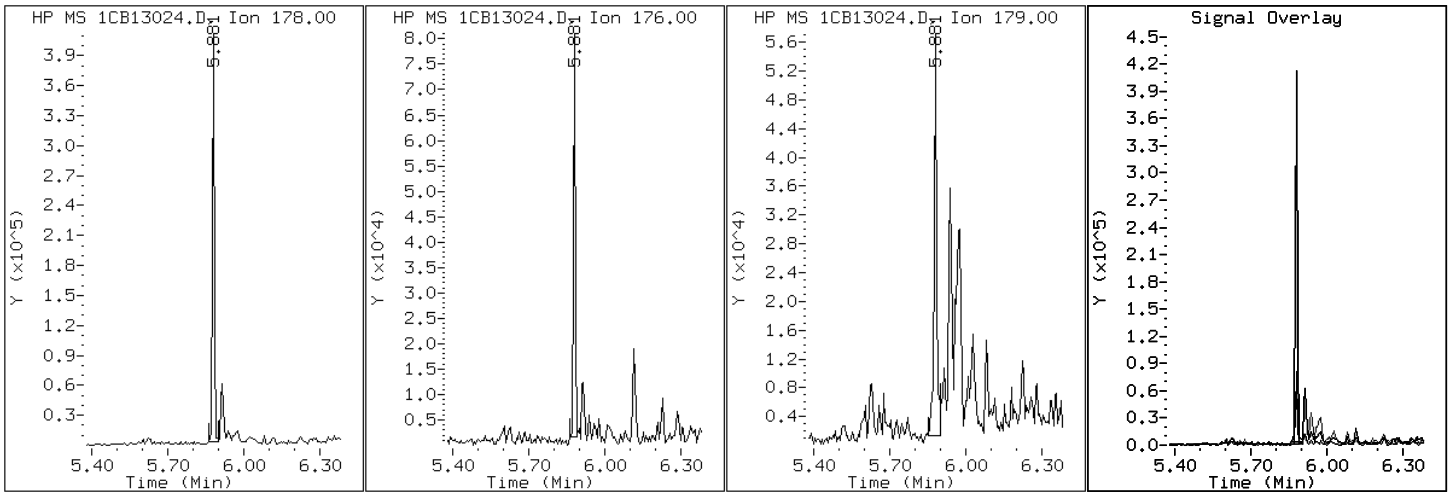
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

11 Phenanthrene



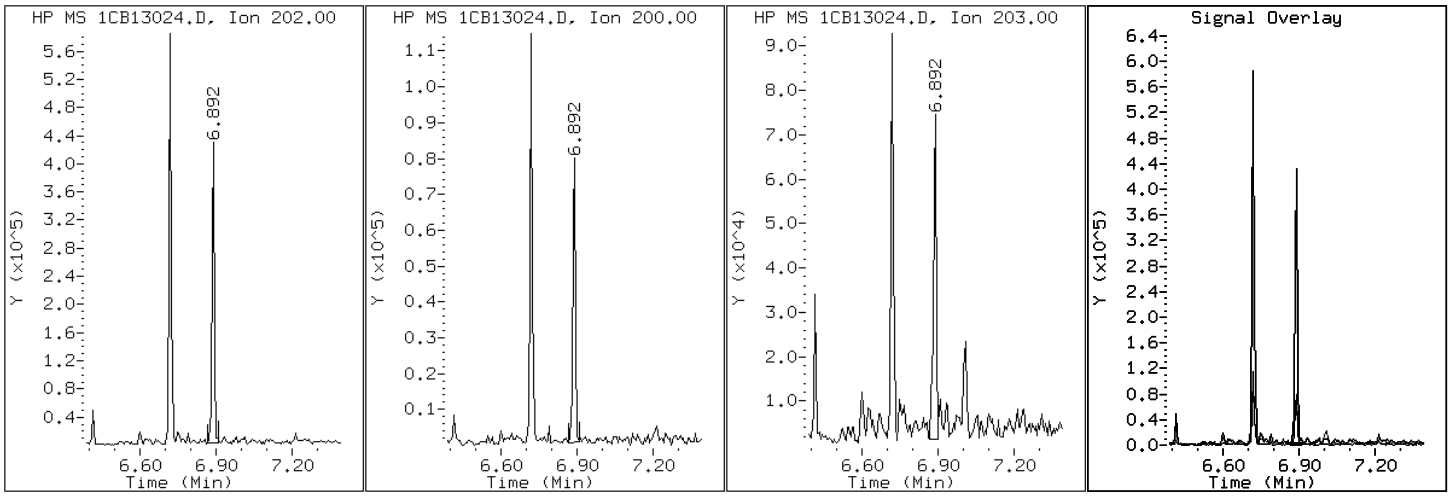
Data File: 1CB13024.D

Date: 13-FEB-2013 18:18

Client ID: CV0127B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-2-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB13024.D
Inj. Date and Time: 13-FEB-2013 18:18
Instrument ID: BSMC5973.i
Client ID: CV0127B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

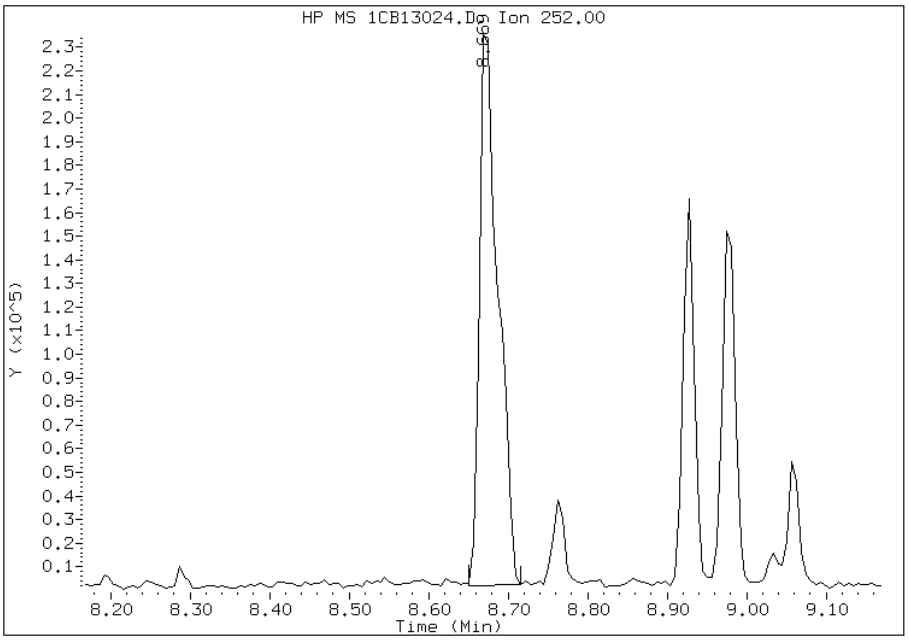
Processing Integration Results

RT: 8.67

Response: 380756

Amount: 5

Conc: 529



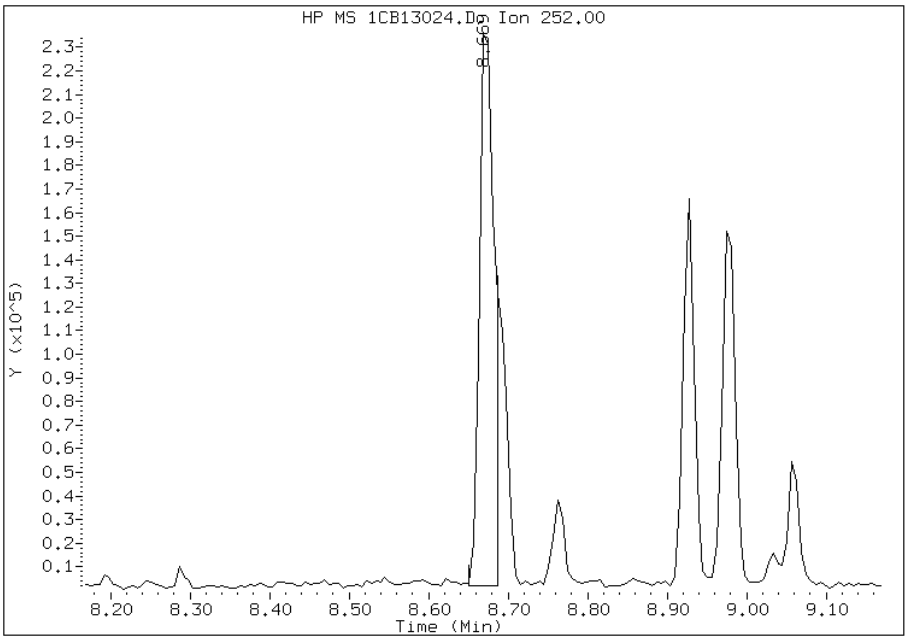
Manual Integration Results

RT: 8.67

Response: 302425

Amount: 4

Conc: 420



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:01
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB13024.D
Inj. Date and Time: 13-FEB-2013 18:18
Instrument ID: BSMC5973.i
Client ID: CV0127B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

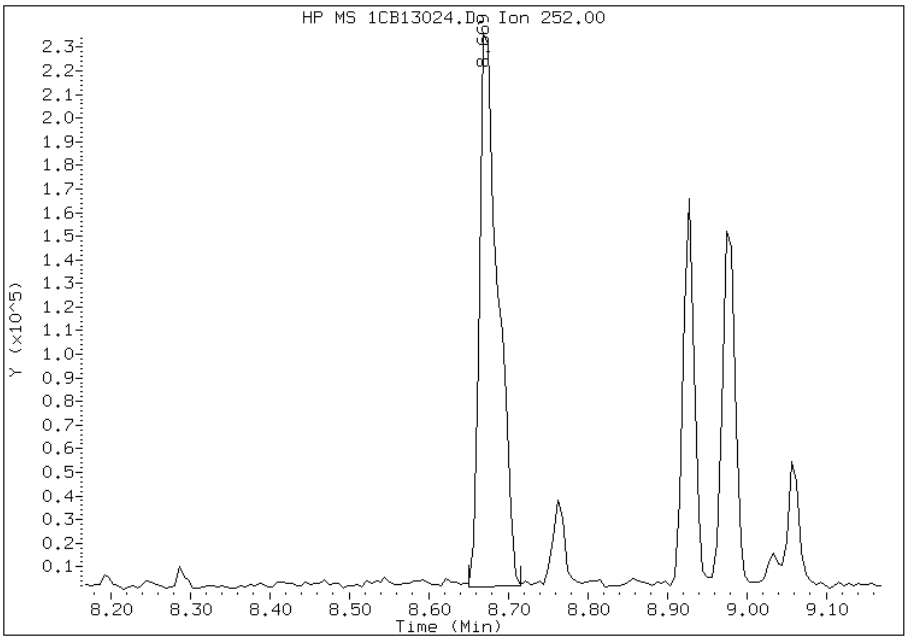
Processing Integration Results

RT: 8.67

Response: 382553

Amount: 4

Conc: 482



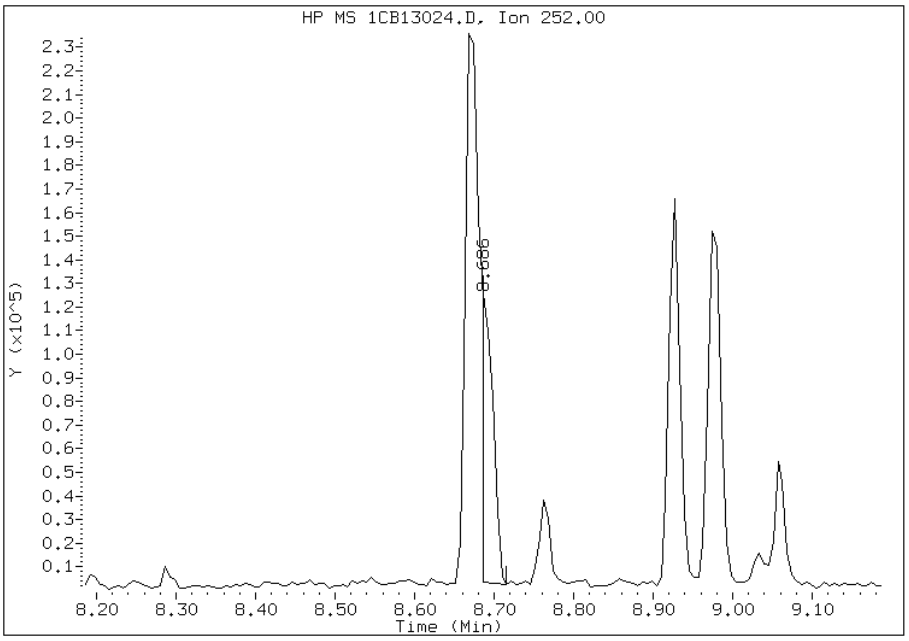
Manual Integration Results

RT: 8.69

Response: 120638

Amount: 1

Conc: 152



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB13024.D
Inj. Date and Time: 13-FEB-2013 18:18
Instrument ID: BSMC5973.i
Client ID: CV0127B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

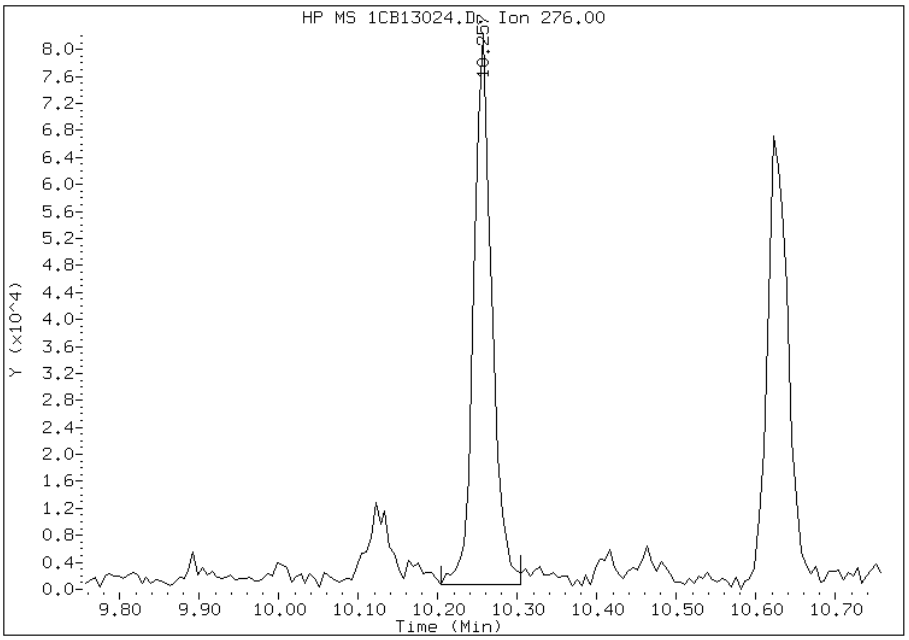
Processing Integration Results

RT: 10.26

Response: 128258

Amount: 2

Conc: 195



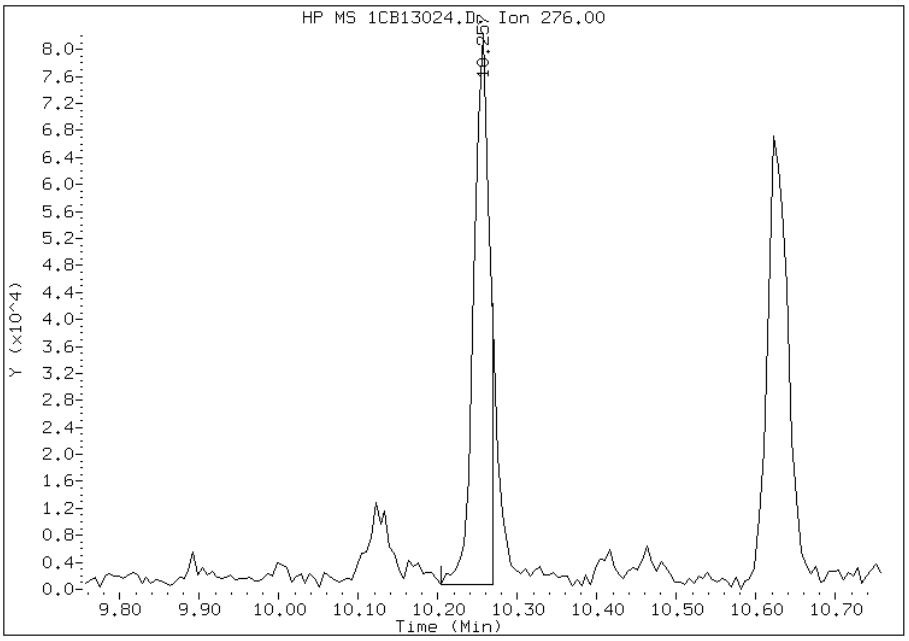
Manual Integration Results

RT: 10.26

Response: 113195

Amount: 2

Conc: 172



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0800A-CS-SP | Lab Sample ID: 680-87218-3

Matrix: Solid | Lab File ID: 1CB13025.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:40

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.05(g) | Date Analyzed: 02/13/2013 18:37

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

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

% Moisture: 23.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	520	U	520	100
208-96-8	Acenaphthylene	170	J	210	26
120-12-7	Anthracene	170		44	22
56-55-3	Benzo[a]anthracene	670		42	20
50-32-8	Benzo[a]pyrene	720		54	27
205-99-2	Benzo[b]fluoranthene	1400	F	64	32
191-24-2	Benzo[g,h,i]perylene	490		100	23
207-08-9	Benzo[k]fluoranthene	540		42	19
218-01-9	Chrysene	880	F	47	23
53-70-3	Dibenz(a,h)anthracene	190		100	21
206-44-0	Fluoranthene	850	F	100	21
86-73-7	Fluorene	36	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	480		100	37
90-12-0	1-Methylnaphthalene	950		210	23
91-57-6	2-Methylnaphthalene	1000		210	37
91-20-3	Naphthalene	610		210	23
85-01-8	Phenanthrene	910	B	42	20
129-00-0	Pyrene	930	F	100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	112		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13025.D
Lab Smp Id: 680-87218-A-3-A Client Smp ID: CV0800A-CS-SP
Inj Date : 13-FEB-2013 18:37
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-3-a
Misc Info : 680-87218-A-3-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 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	15.050	Weight Extracted
M	23.564	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2065896	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1559169	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	2792815	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	114200	2.79074	970.3897
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3020364	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	2931501	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	96612	1.76481	613.6570
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	104508	2.93598	1020.8951
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	88641	2.73806	952.0727
5 Acenaphthylene	152	4.821	4.821	(0.982)	29539	0.47620	165.5844
9 Fluorene	166	5.251	5.251	(1.069)	5196	0.10404	36.1783(Q)
11 Phenanthrene	178	5.880	5.880	(1.003)	216970	2.60269	905.0042
12 Anthracene	178	5.915	5.915	(1.009)	37120	0.49422	171.8498
13 Carbazole	167	6.021	6.021	(1.027)	27805	0.42619	148.1951

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	197993	2.43062	845.1707
16 Pyrene	202	6.892	6.892	(0.882)	214782	2.67110	928.7916
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	159978	1.92072	667.8689
19 Chrysene	228	7.833	7.833	(1.002)	217933	2.53308	880.7974
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	295419	4.11042	1429.2667(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	122469	1.54676	537.8362(MH)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	142185	2.07906	722.9266
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.135)	89985	1.36992	476.3463(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	33263	0.53699	186.7214
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	94030	1.40923	490.0166

QC Flag Legend

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

Data File: 1CB13025.D

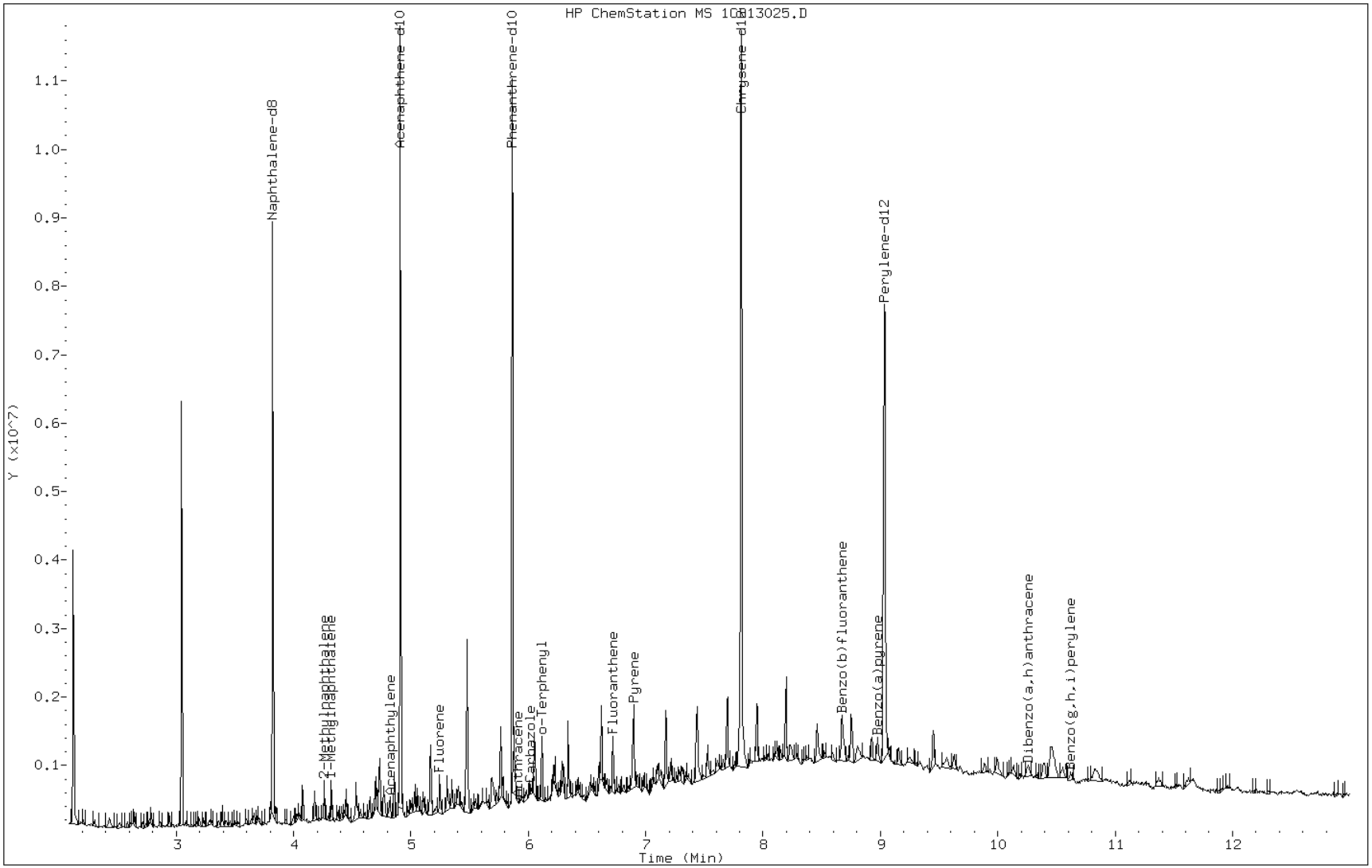
Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a

Operator: SCC



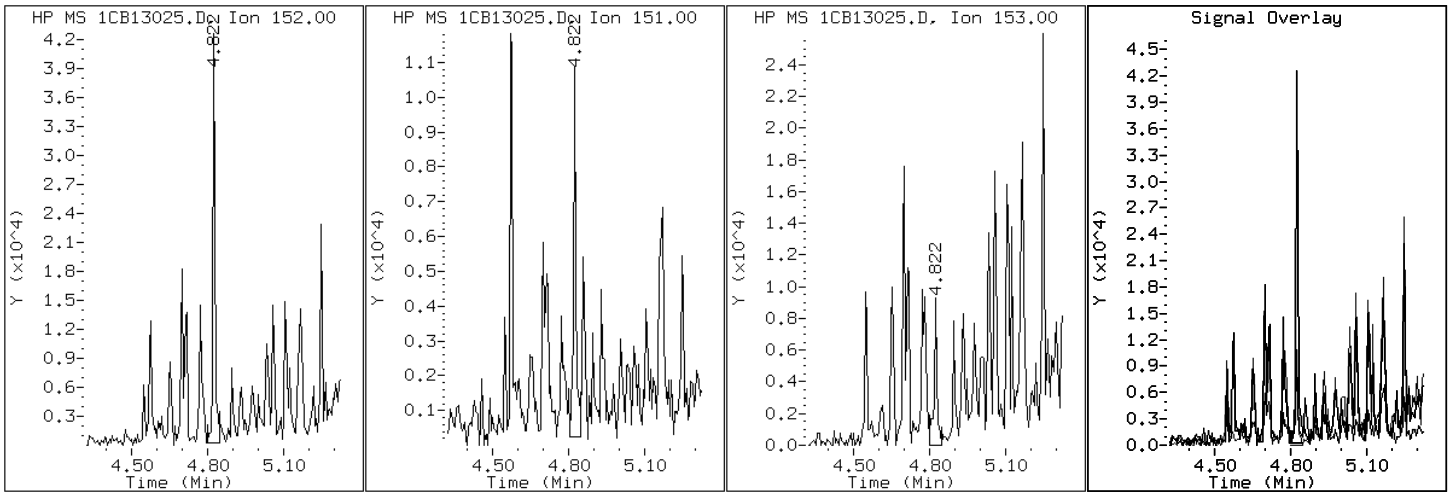
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

5 Acenaphthylene



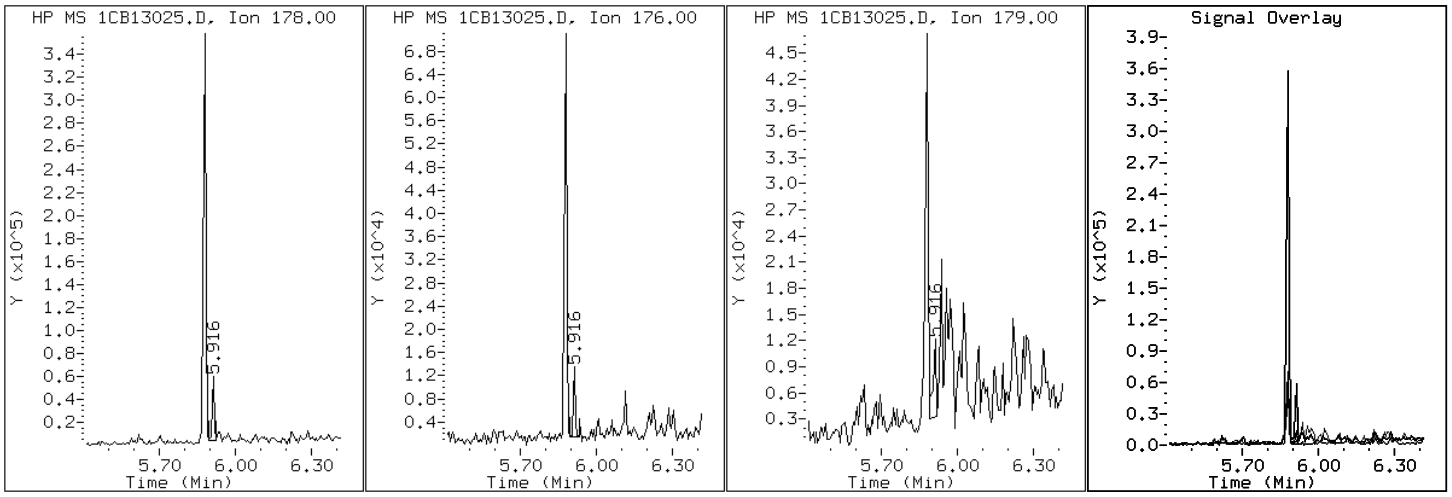
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

12 Anthracene



Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

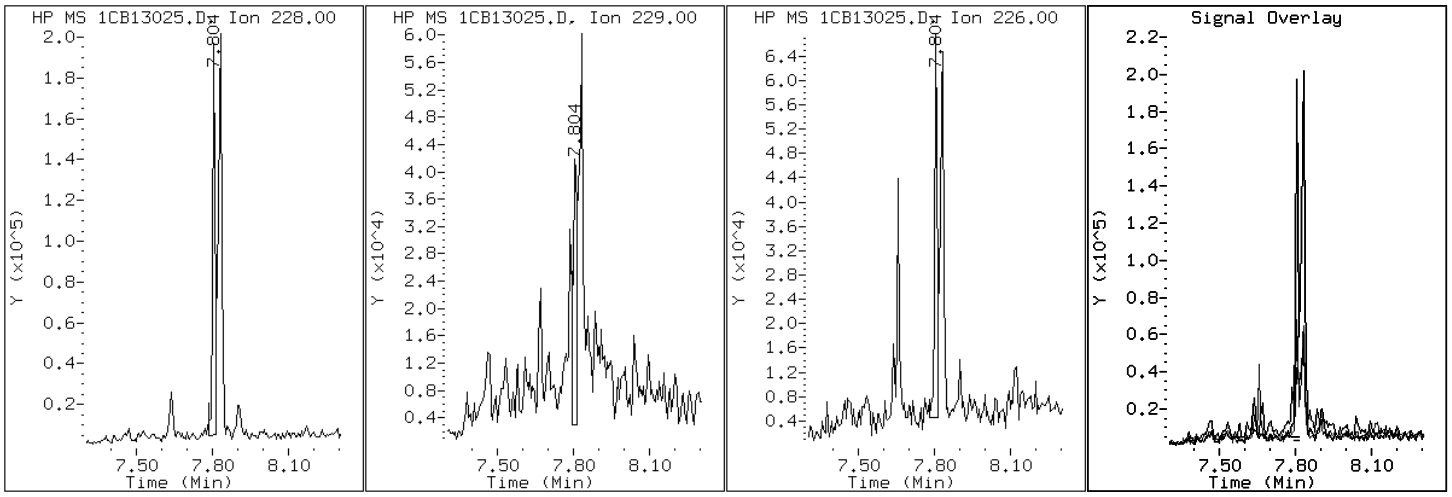
Client ID: CV0800A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a

Operator: SCC

17 Benzo(a)anthracene



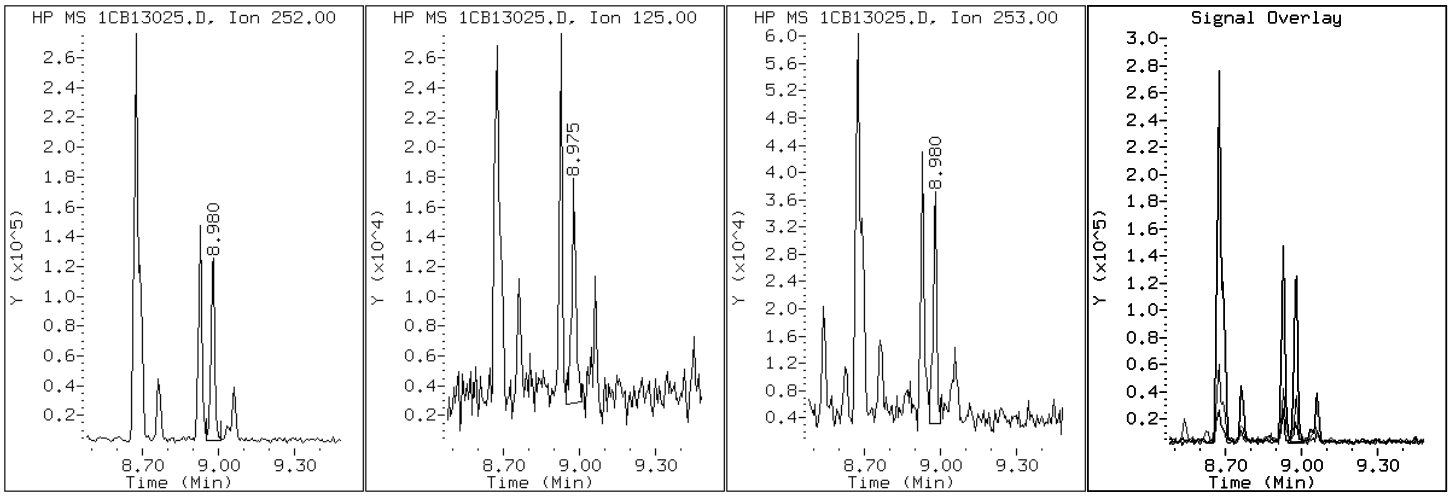
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

22 Benzo(a)pyrene



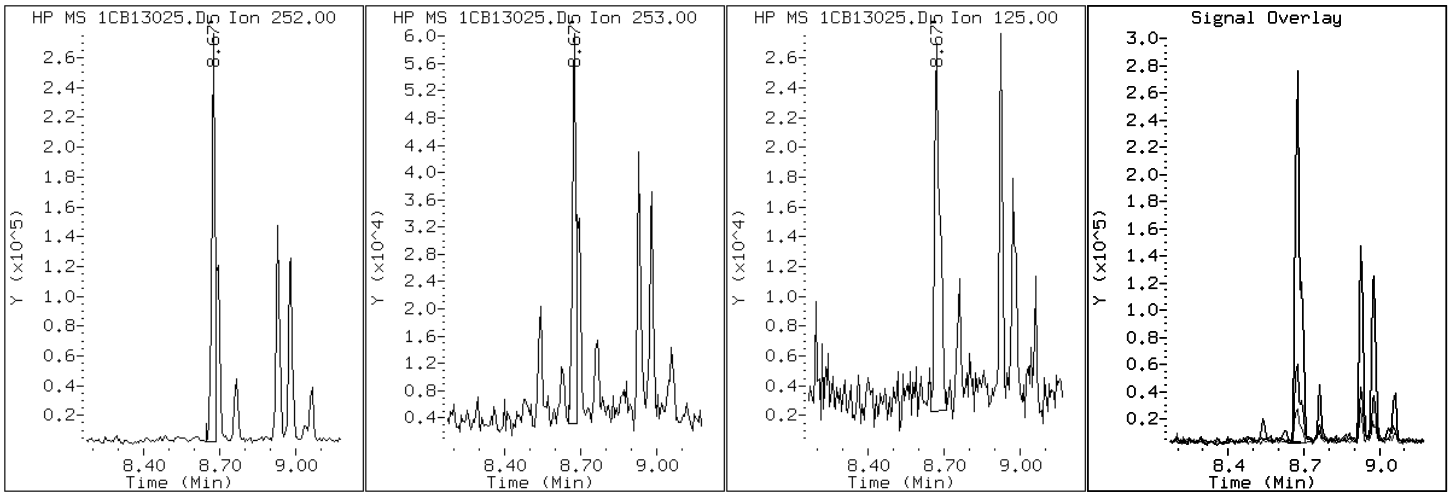
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

20 Benzo(b)fluoranthene



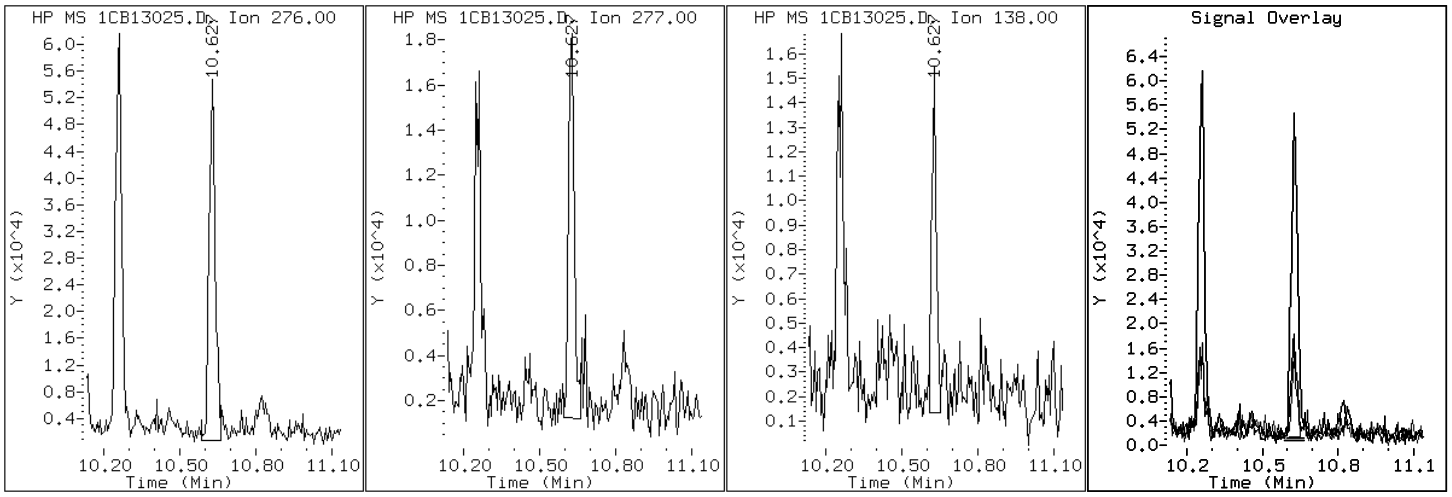
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

26 Benzo(g,h,i)perylene



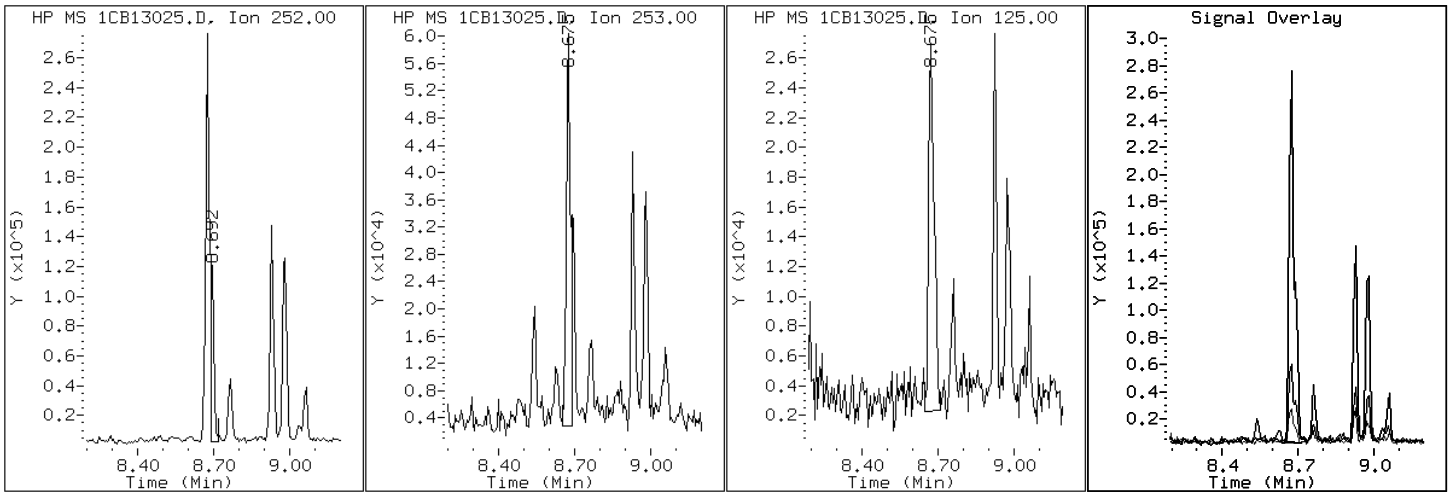
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

21 Benzo(k)fluoranthene



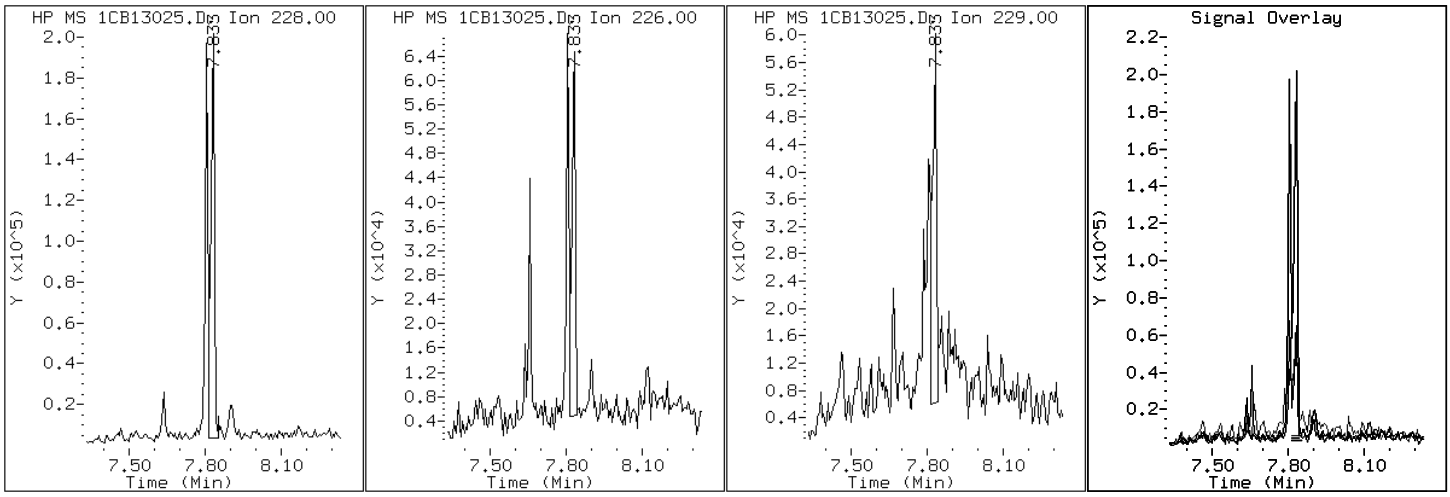
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

19 Chrysene



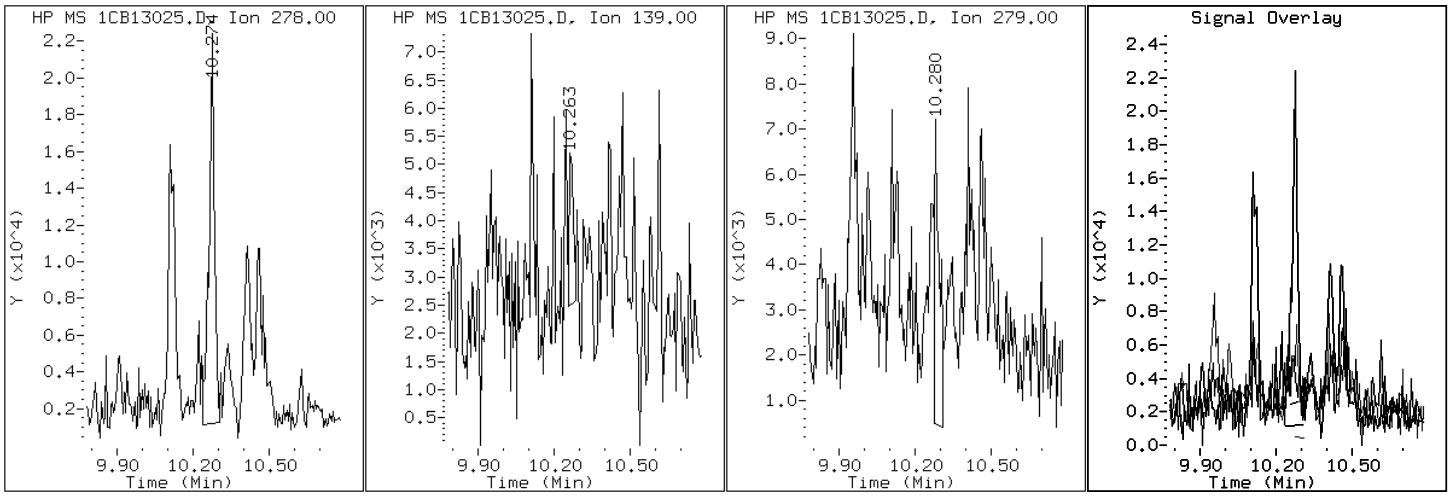
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

25 Dibenzo(a,h)anthracene



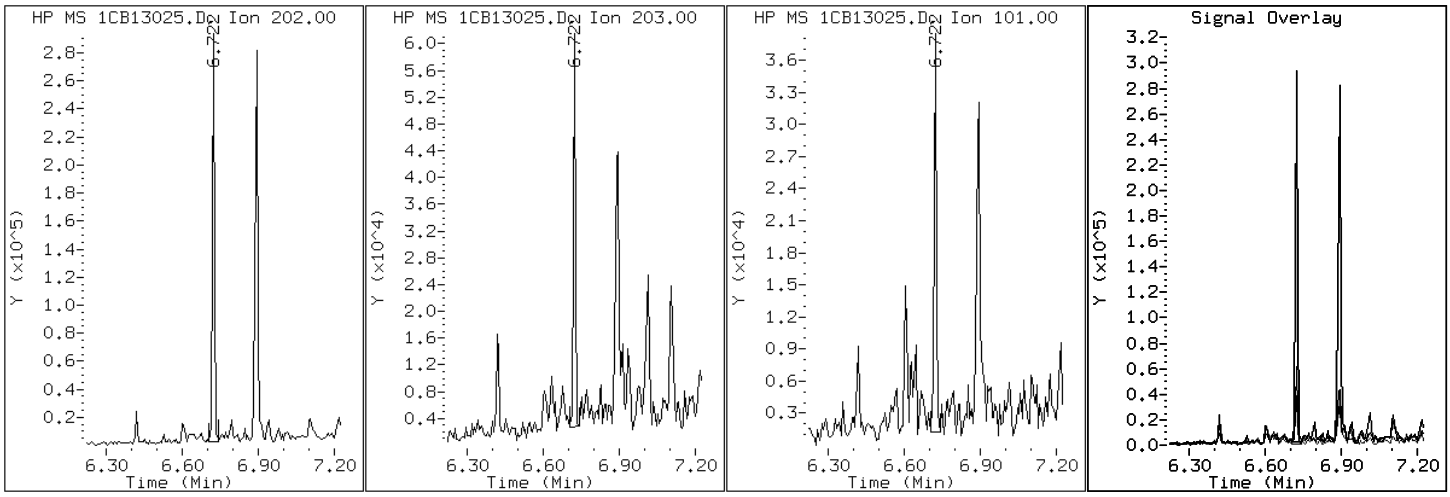
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

15 Fluoranthene



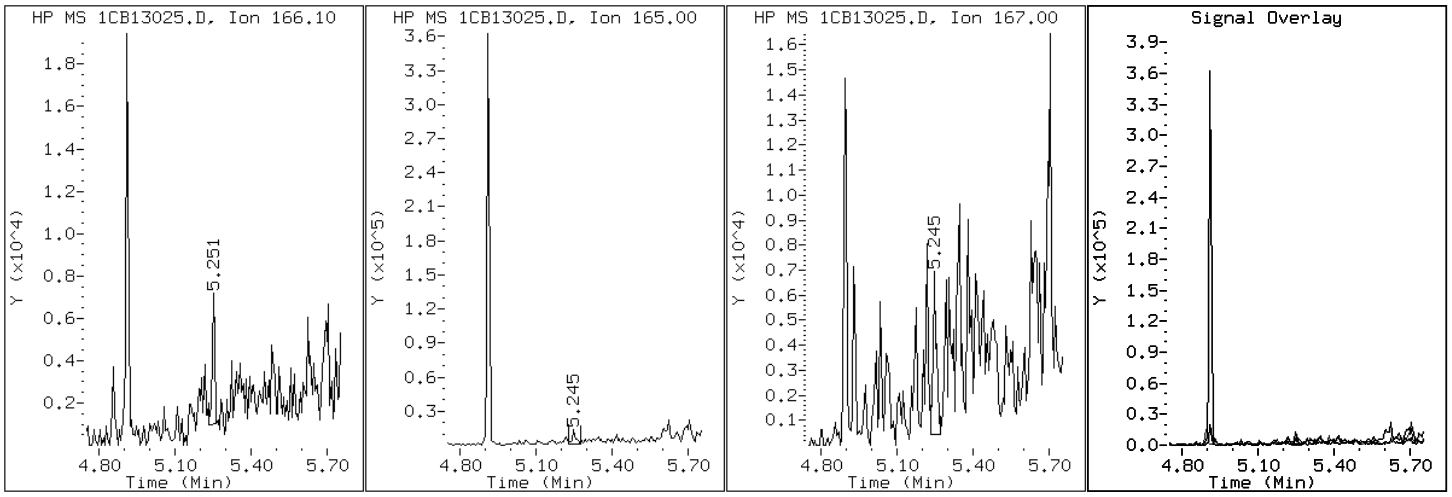
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

9 Fluorene



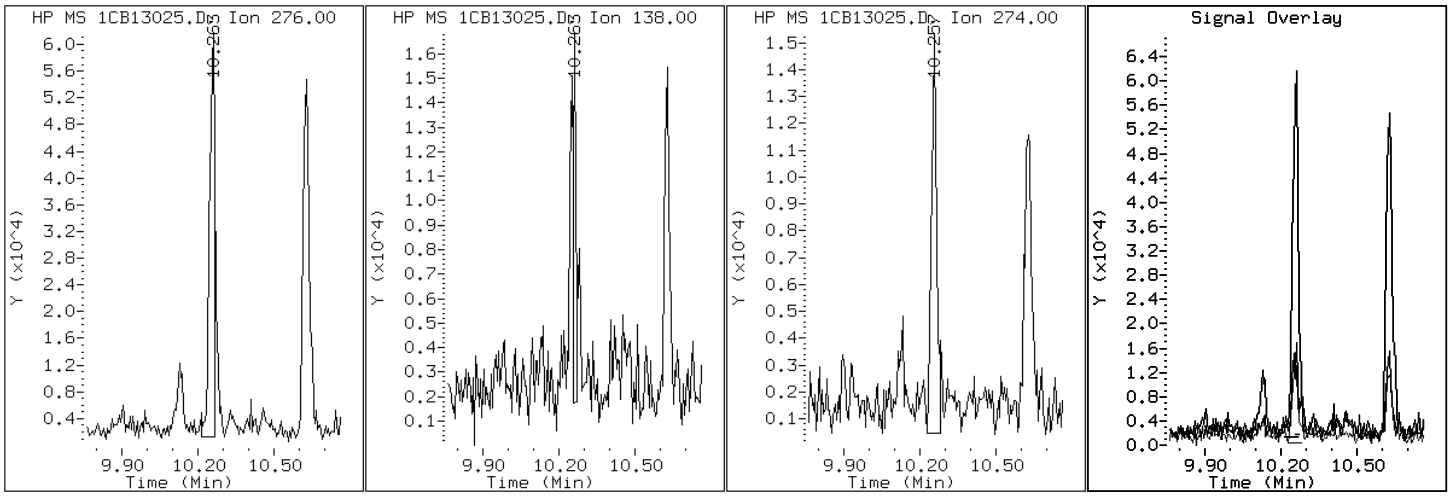
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

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



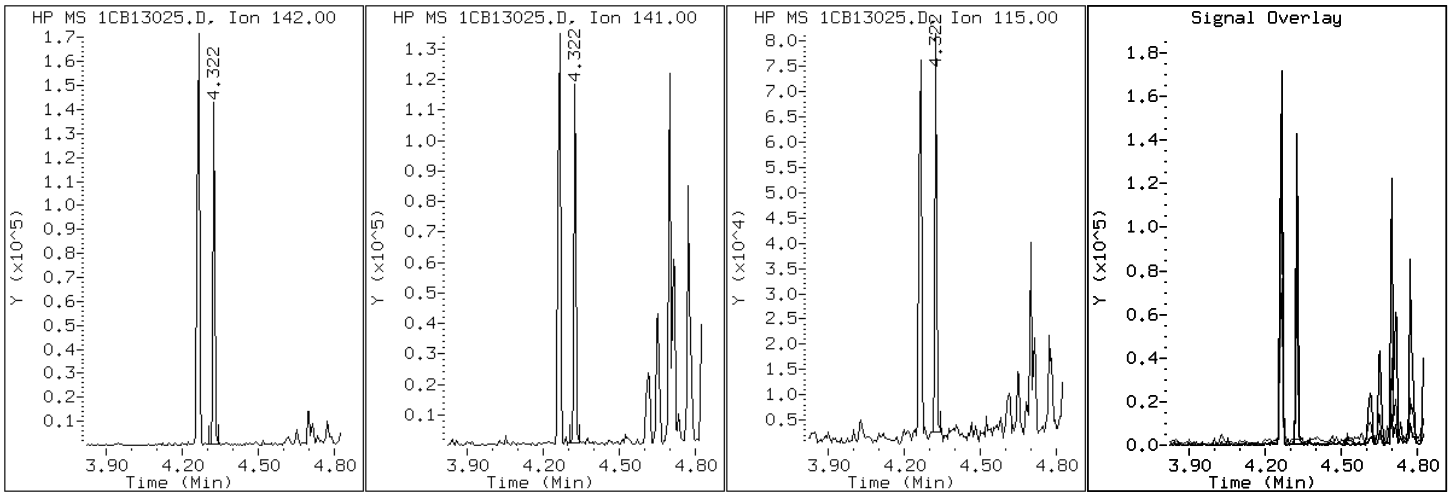
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

4 1-Methylnaphthalene



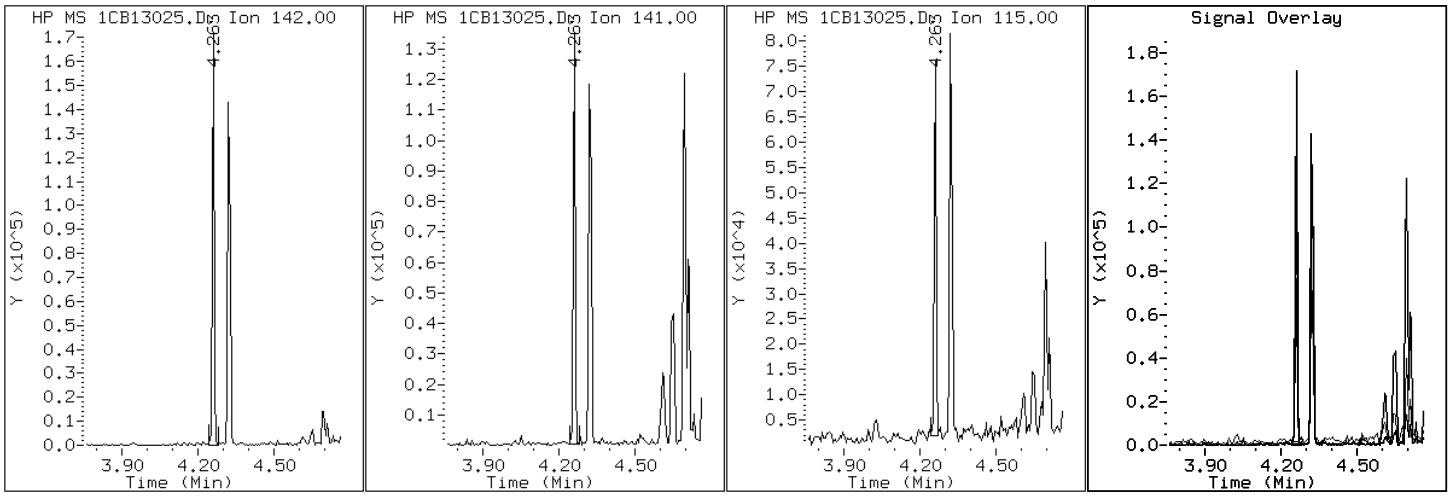
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

3 2-Methylnaphthalene



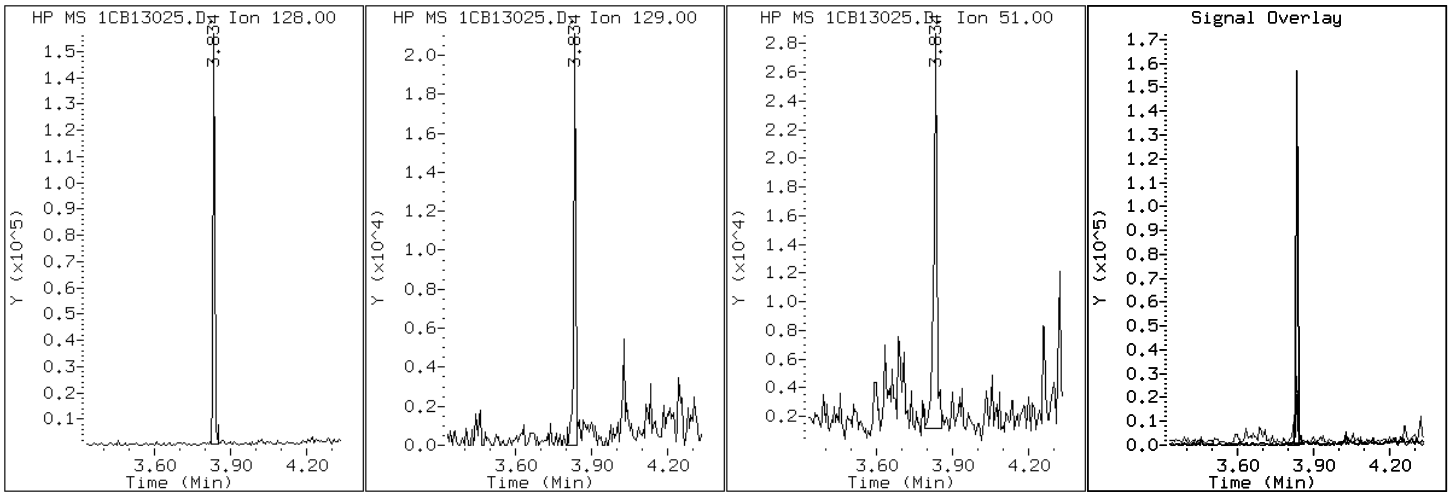
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

2 Naphthalene



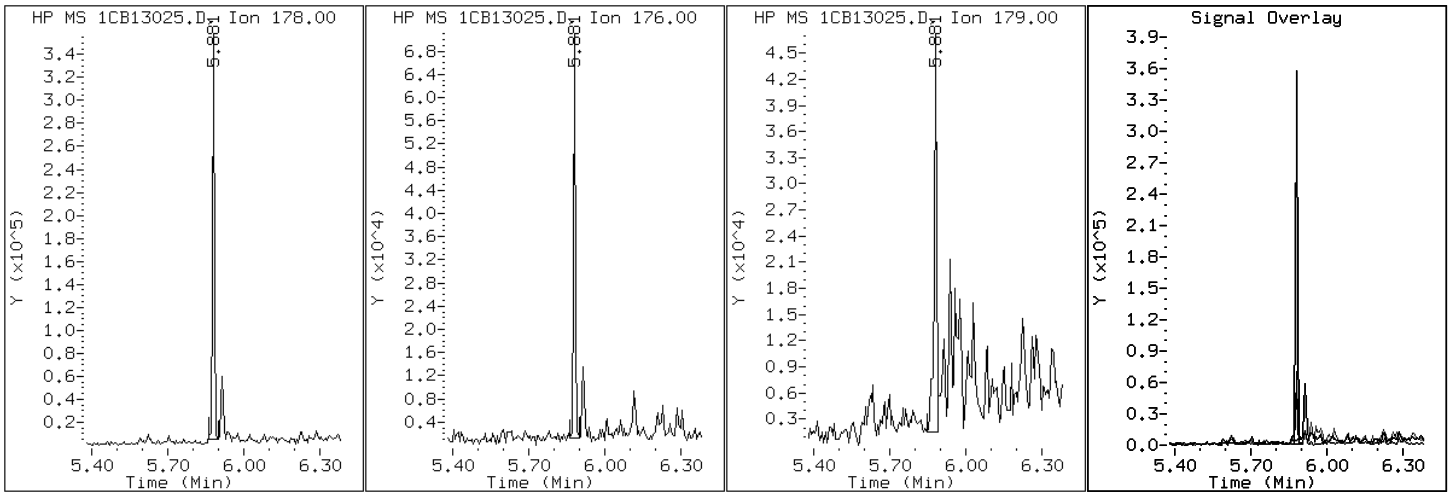
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

11 Phenanthrene



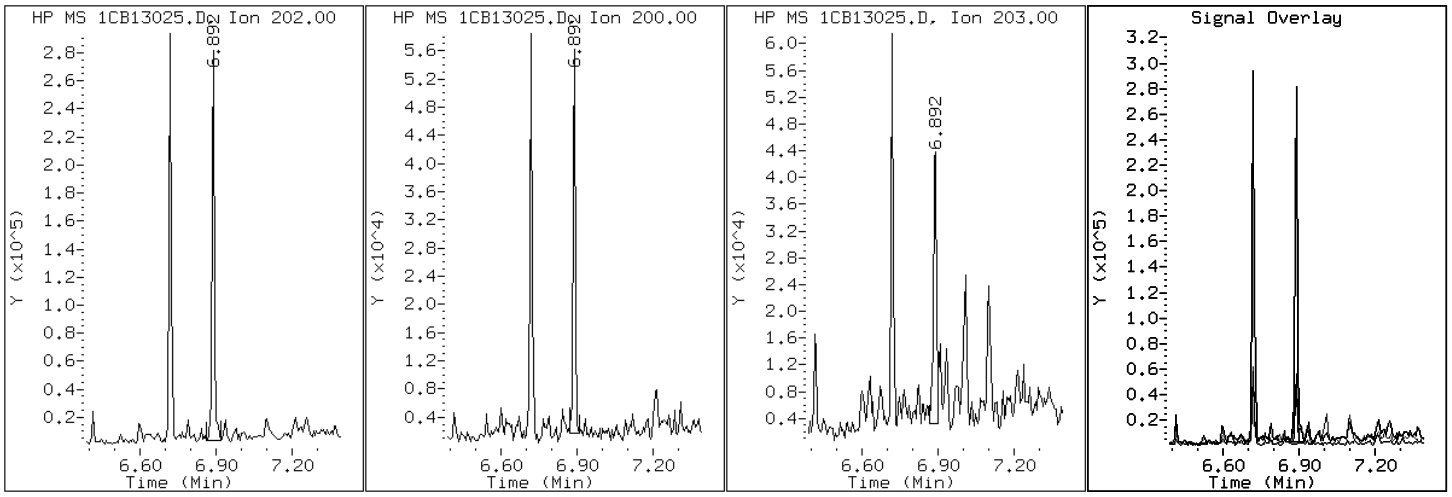
Data File: 1CB13025.D

Date: 13-FEB-2013 18:37

Client ID: CV0800A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB13025.D
Inj. Date and Time: 13-FEB-2013 18:37
Instrument ID: BSMC5973.i
Client ID: CV0800A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

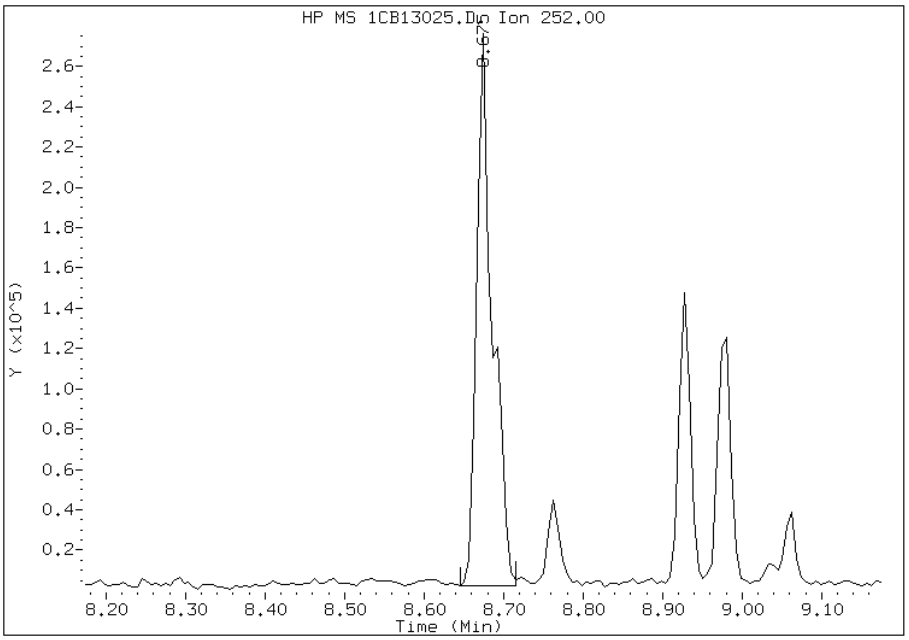
Processing Integration Results

RT: 8.67

Response: 377667

Amount: 5

Conc: 1827



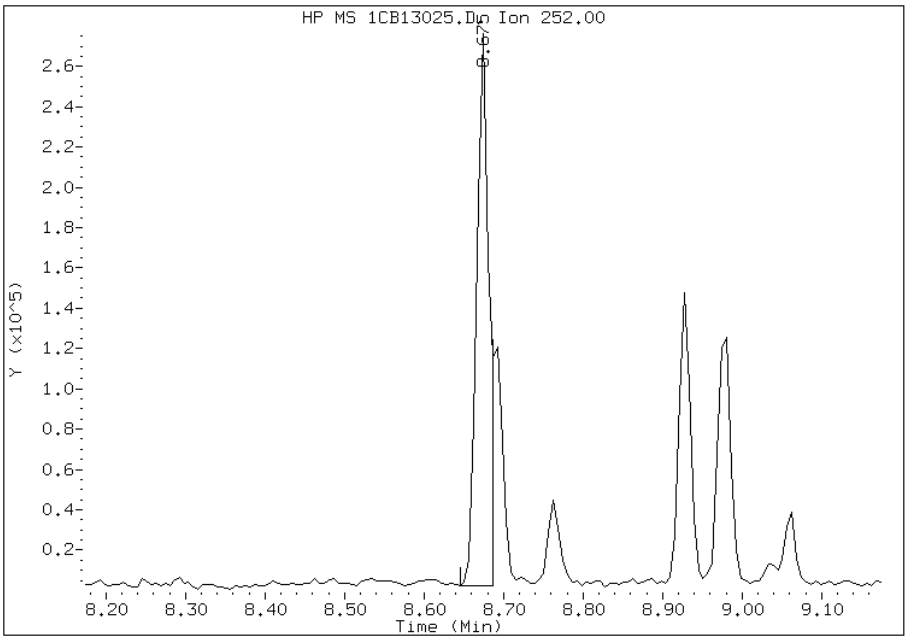
Manual Integration Results

RT: 8.67

Response: 295419

Amount: 4

Conc: 1429



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB13025.D
Inj. Date and Time: 13-FEB-2013 18:37
Instrument ID: BSMC5973.i
Client ID: CV0800A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

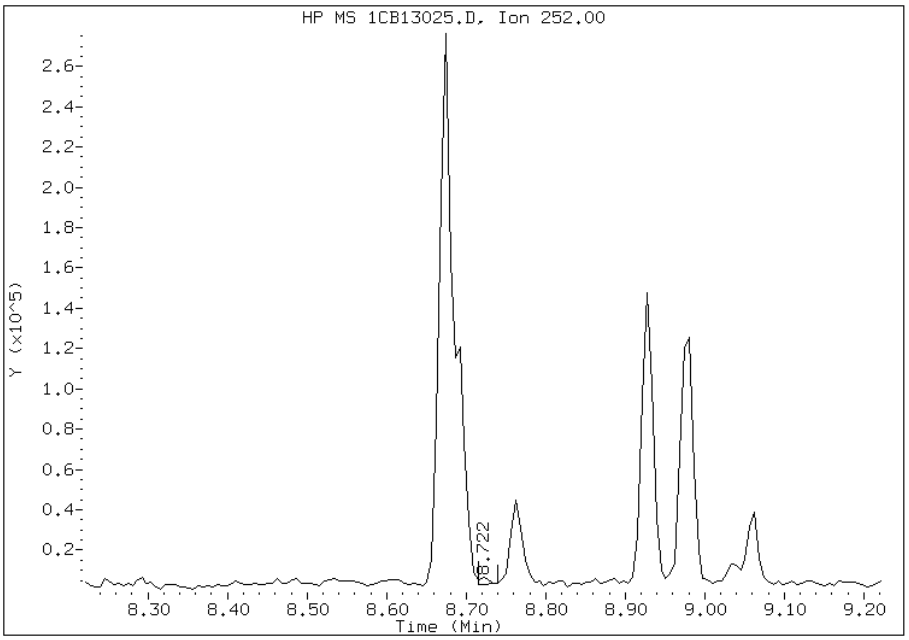
Processing Integration Results

RT: 8.72

Response: 2681

Amount: 0

Conc: 12



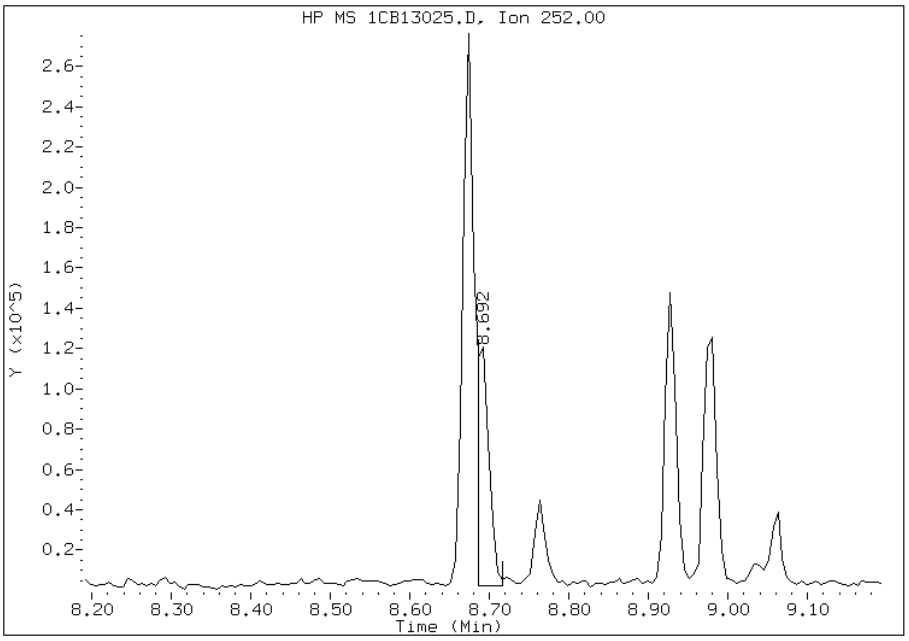
Manual Integration Results

RT: 8.69

Response: 122469

Amount: 2

Conc: 538



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB13025.D
Inj. Date and Time: 13-FEB-2013 18:37
Instrument ID: BSMC5973.i
Client ID: CV0800A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

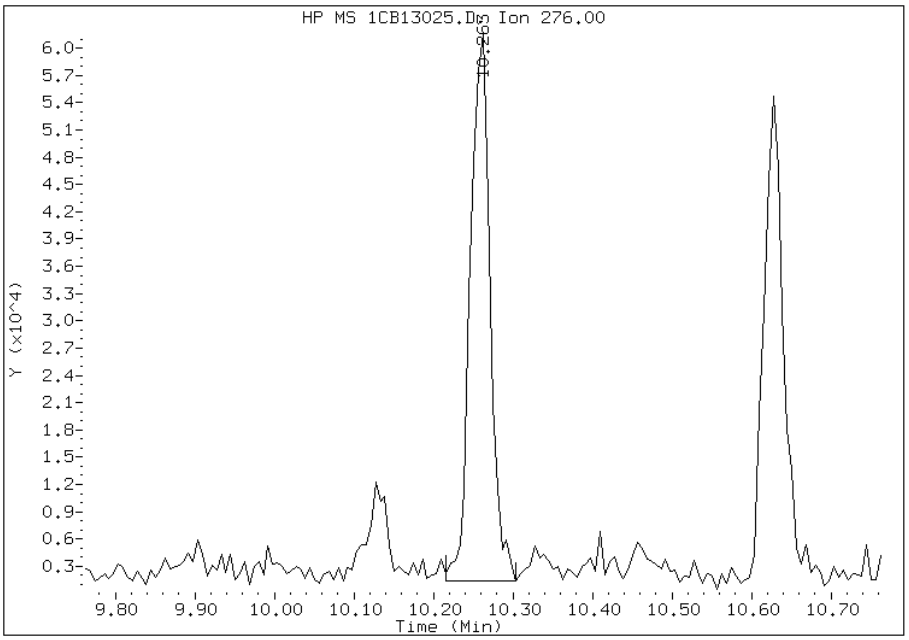
Processing Integration Results

RT: 10.26

Response: 104014

Amount: 2

Conc: 551



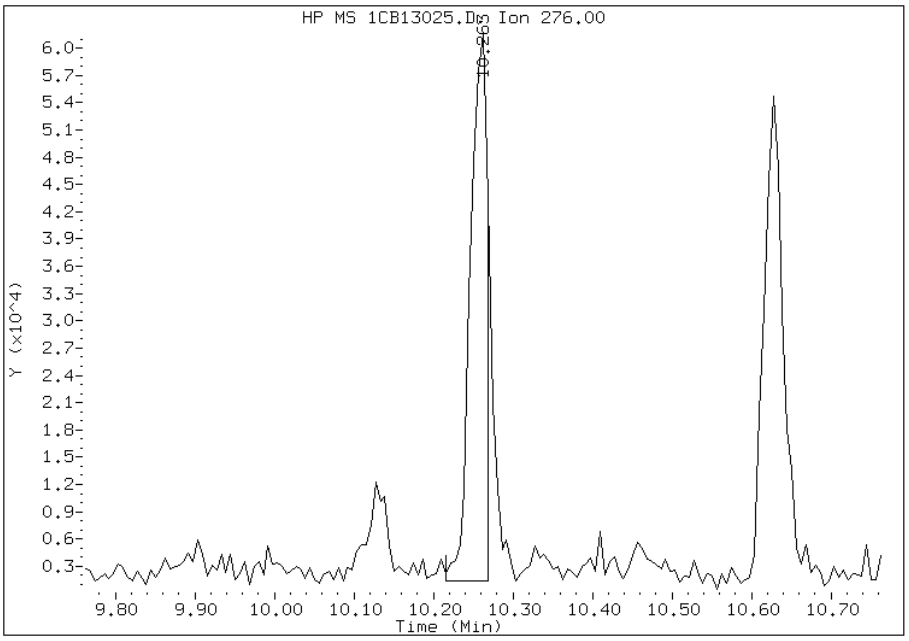
Manual Integration Results

RT: 10.26

Response: 89985

Amount: 1

Conc: 476



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0966A-CS-SP | Lab Sample ID: 680-87218-4

Matrix: Solid | Lab File ID: 1CB13028.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:22

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.15(g) | Date Analyzed: 02/13/2013 19:32

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

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

% Moisture: 28.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	28
208-96-8	Acenaphthylene	55	U	55	6.9
120-12-7	Anthracene	15		12	5.8
56-55-3	Benzo[a]anthracene	64		11	5.4
50-32-8	Benzo[a]pyrene	63		14	7.2
205-99-2	Benzo[b]fluoranthene	88		17	8.4
191-24-2	Benzo[g,h,i]perylene	63		28	6.1
207-08-9	Benzo[k]fluoranthene	61		11	5.0
218-01-9	Chrysene	89		12	6.2
53-70-3	Dibenz(a,h)anthracene	18	J	28	5.6
206-44-0	Fluoranthene	110		28	5.5
86-73-7	Fluorene	7.5	J	28	5.6
193-39-5	Indeno[1,2,3-cd]pyrene	44		28	9.8
90-12-0	1-Methylnaphthalene	53	J	55	6.1
91-57-6	2-Methylnaphthalene	70		55	9.8
91-20-3	Naphthalene	68		55	6.1
85-01-8	Phenanthrene	84	B	11	5.4
129-00-0	Pyrene	94		28	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	81		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13028.D
Lab Smp Id: 680-87218-A-4-A Client Smp ID: CV0966A-CS-SP
Inj Date : 13-FEB-2013 19:32
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-4-a
Misc Info : 680-87218-A-4-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 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	15.150	Weight Extracted
M	28.125	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.822	3.821	(1.000)	2109867	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1606742	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	2935399	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	346701	8.06088	740.2733
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3143198	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	2968931	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	41333	0.73929	67.8932
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	27644	0.76043	69.8341
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	19131	0.57863	53.1383
9 Fluorene	166	5.251	5.251	(1.069)	4184	0.08130	7.4662(Q)
11 Phenanthrene	178	5.880	5.880	(1.003)	80148	0.91473	84.0041
12 Anthracene	178	5.916	5.915	(1.009)	12834	0.16257	14.9300
13 Carbazole	167	6.021	6.021	(1.027)	10635	0.15509	14.2431
15 Fluoranthene	202	6.721	6.721	(1.146)	101919	1.19041	109.3217

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.892	6.892	(0.882)	86019	1.02796	94.4026
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	60568	0.69877	64.1717
19 Chrysene	228	7.833	7.833	(1.002)	86299	0.96387	88.5173
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.959)	69827	0.95931	88.0988(M)
21 Benzo(k)fluoranthene	252	8.680	8.698	(0.960)	52990	0.66082	60.6861(MH)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	47235	0.68197	62.6291
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	31790	0.47787	43.8849(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	12198	0.19444	17.8563
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.176)	46642	0.69021	63.3860

QC Flag Legend

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

Data File: 1CB13028.D

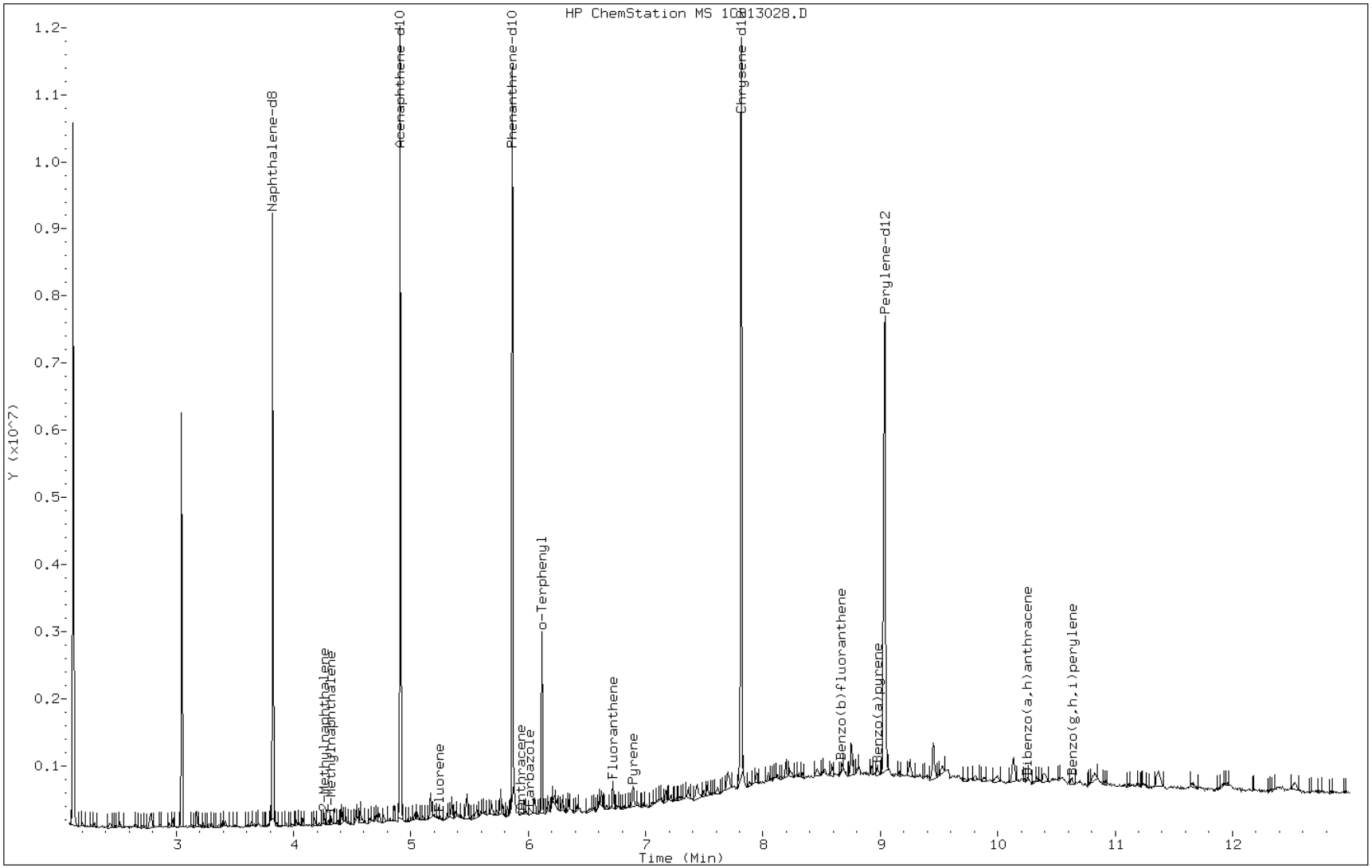
Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a

Operator: SCC



Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

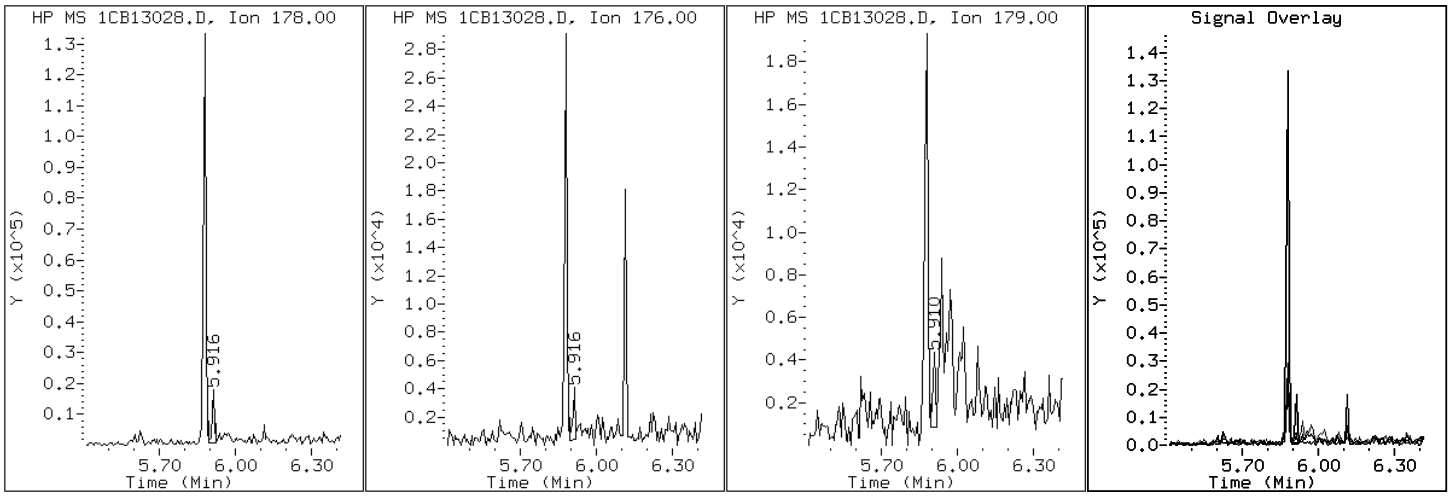
Client ID: CV0966A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a

Operator: SCC

12 Anthracene



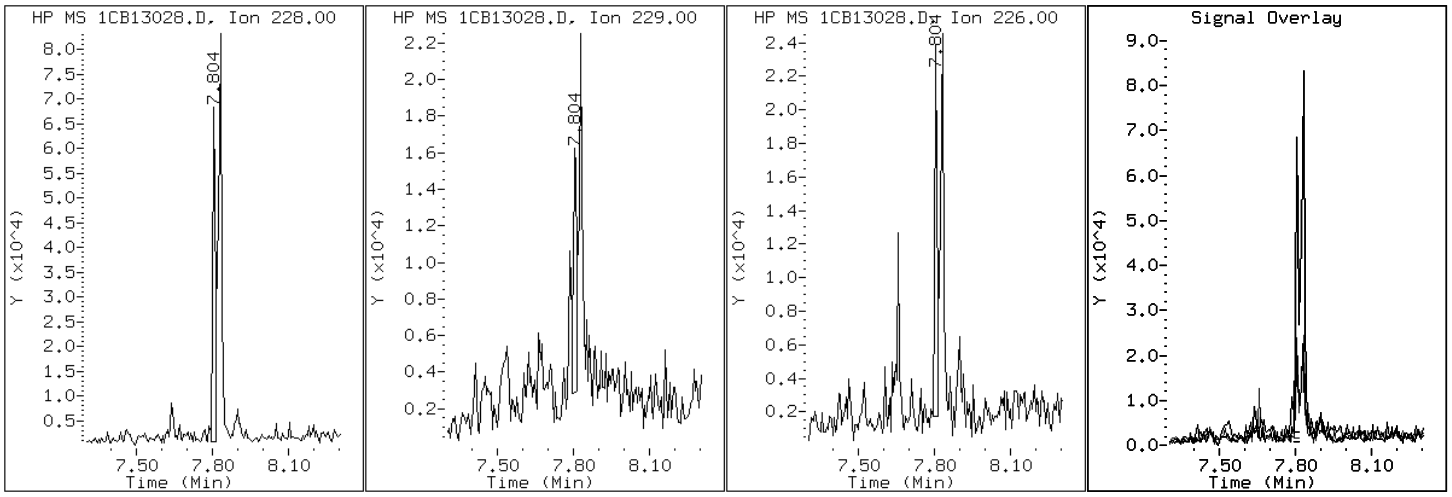
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

17 Benzo(a)anthracene



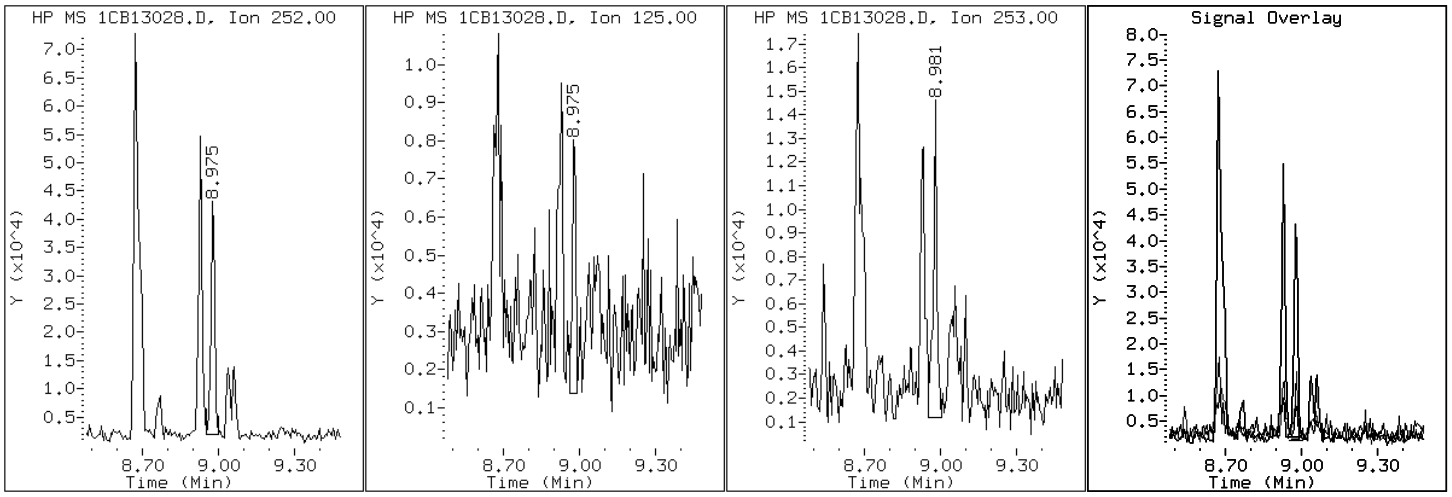
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

22 Benzo(a)pyrene



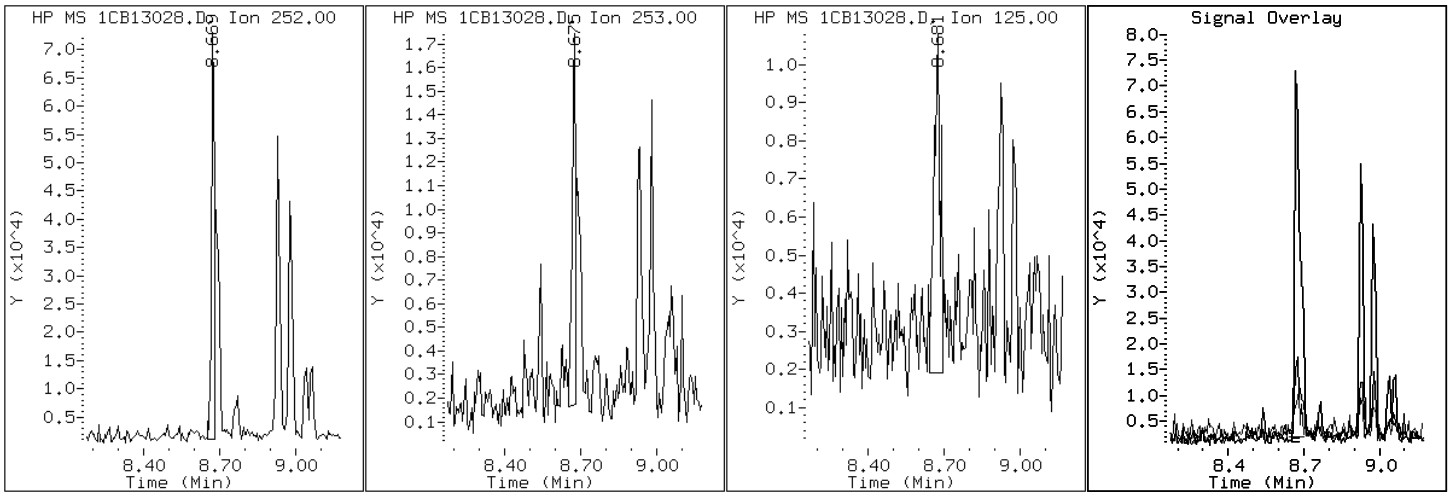
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

20 Benzo(b)fluoranthene



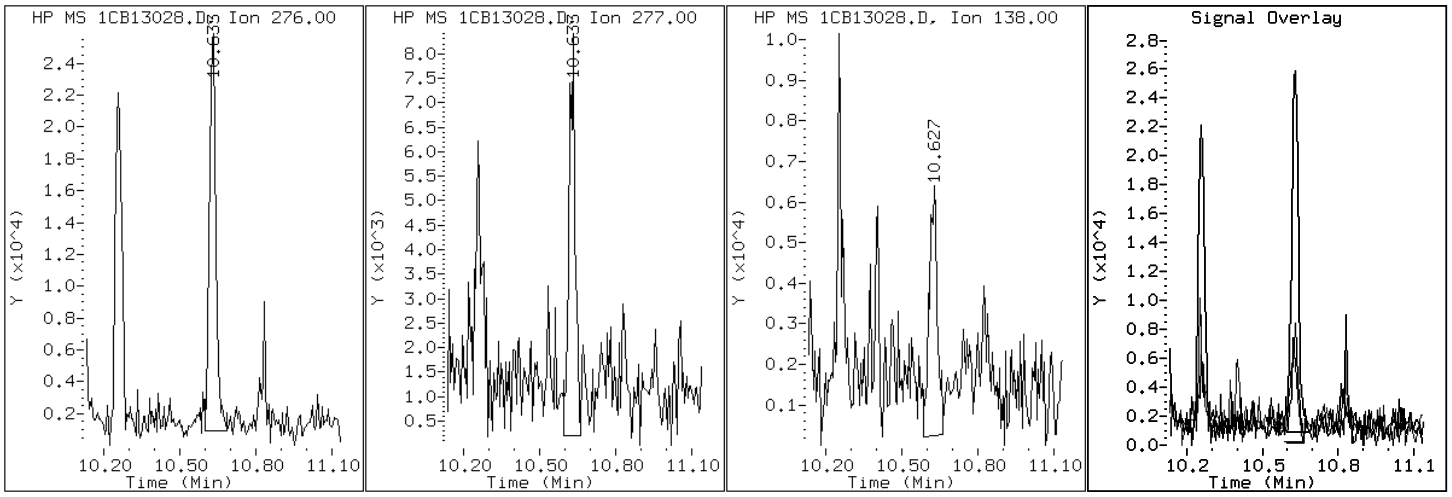
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

26 Benzo(g,h,i)perylene



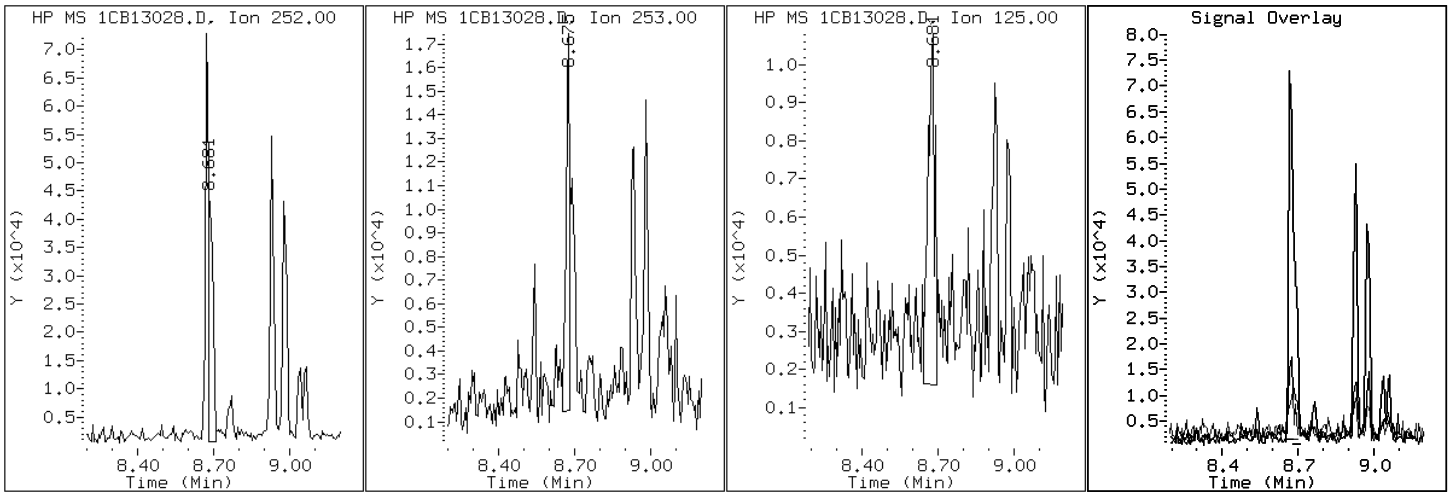
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

21 Benzo(k)fluoranthene



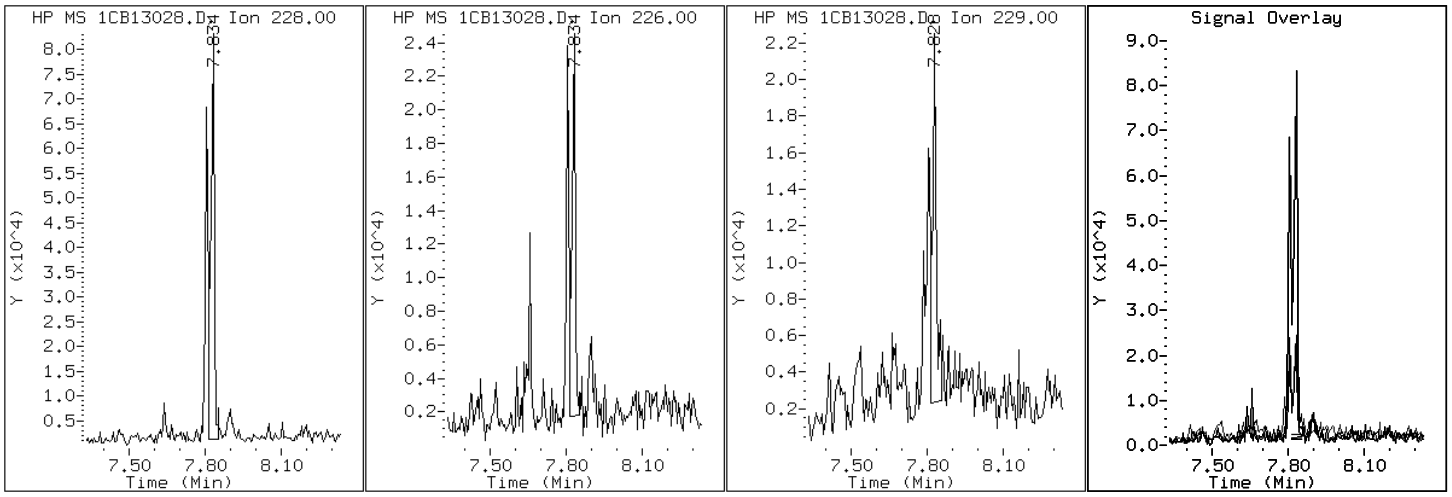
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

19 Chrysene



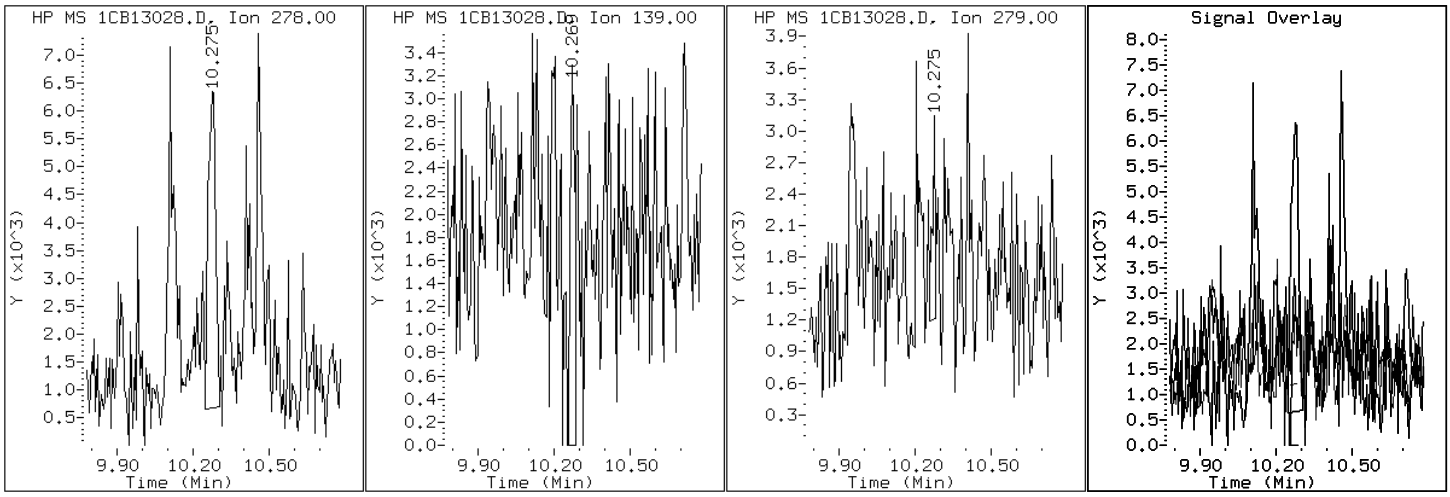
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

25 Dibenzo(a,h)anthracene



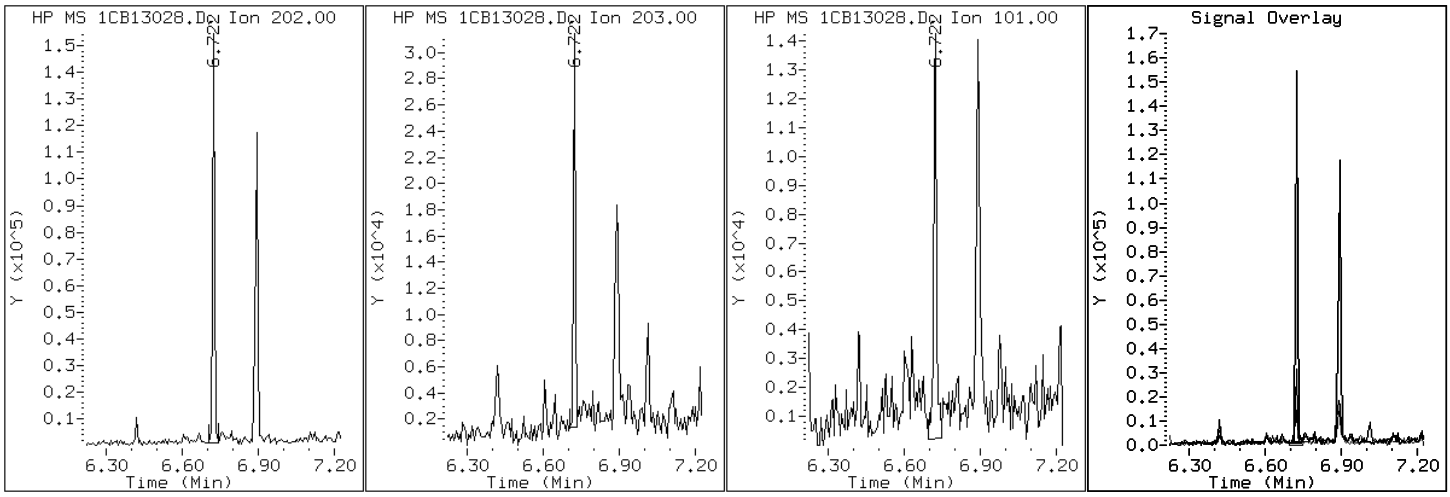
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

15 Fluoranthene



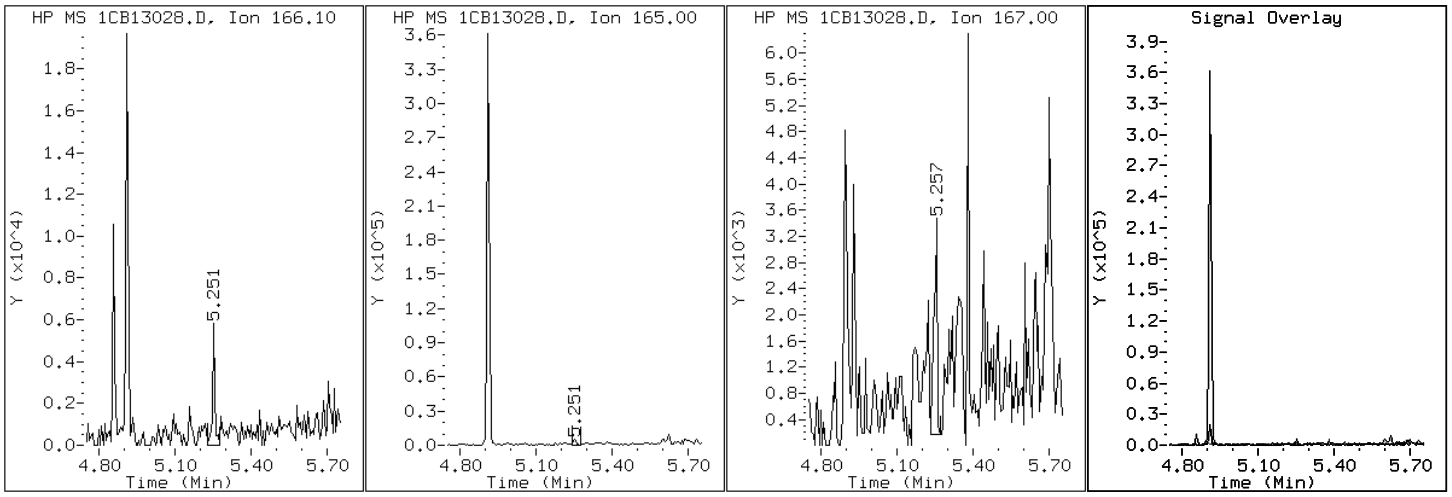
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

9 Fluorene



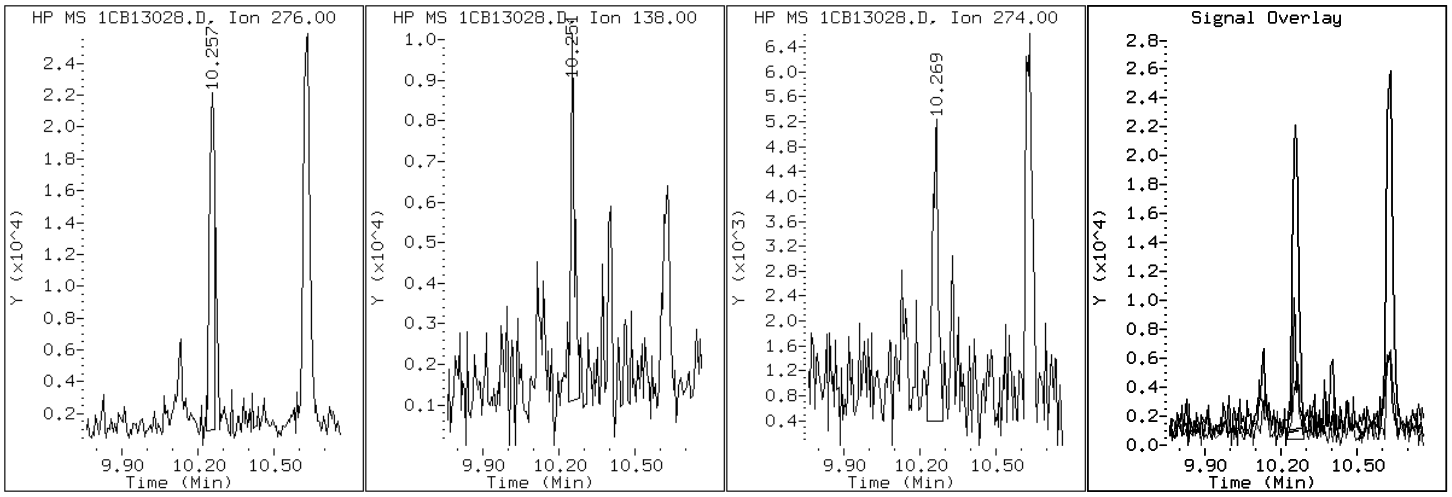
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

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



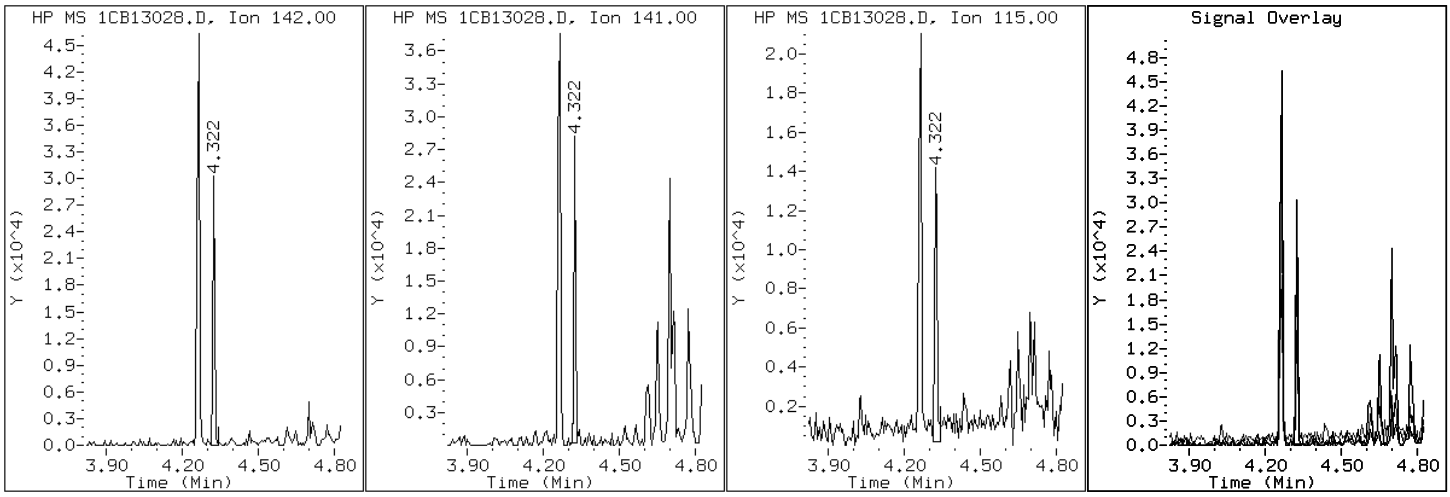
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

4 1-Methylnaphthalene



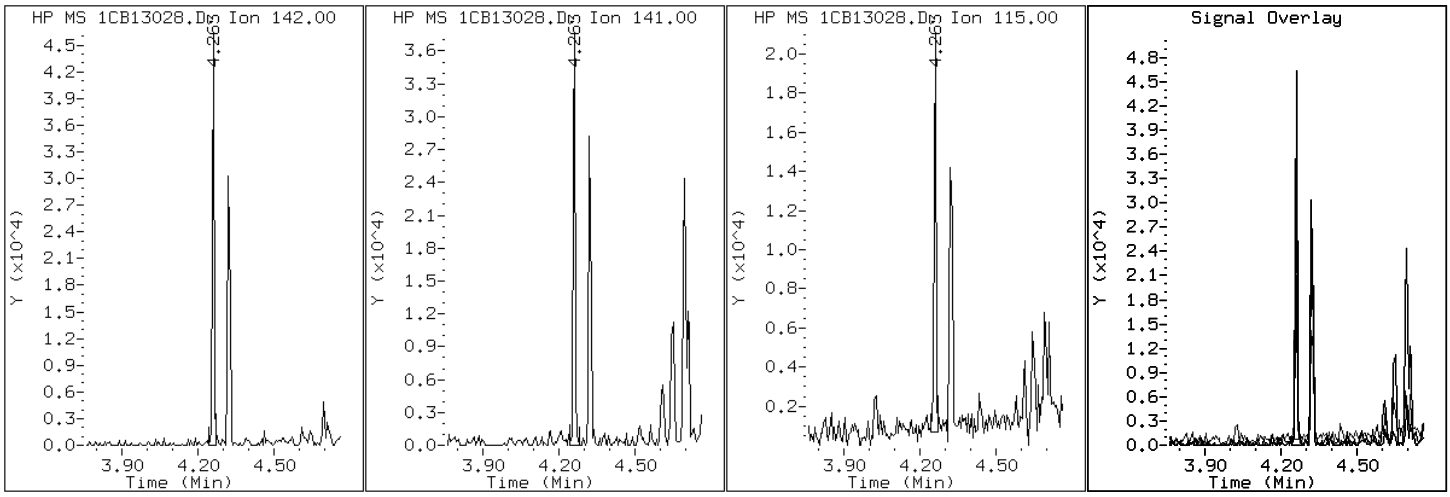
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

3 2-Methylnaphthalene



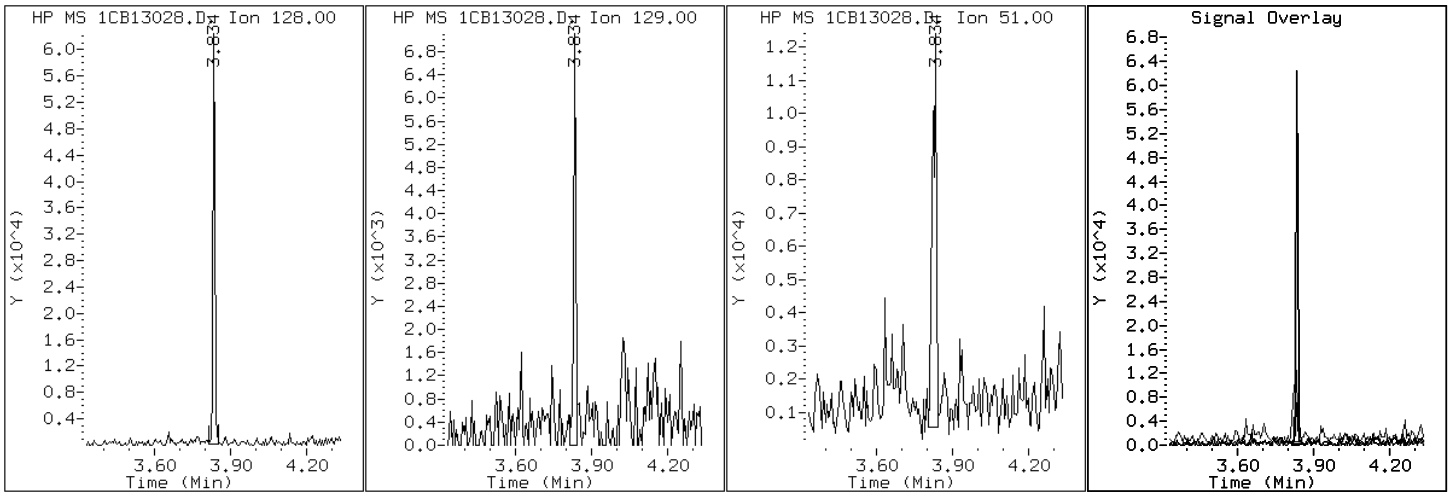
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

2 Naphthalene



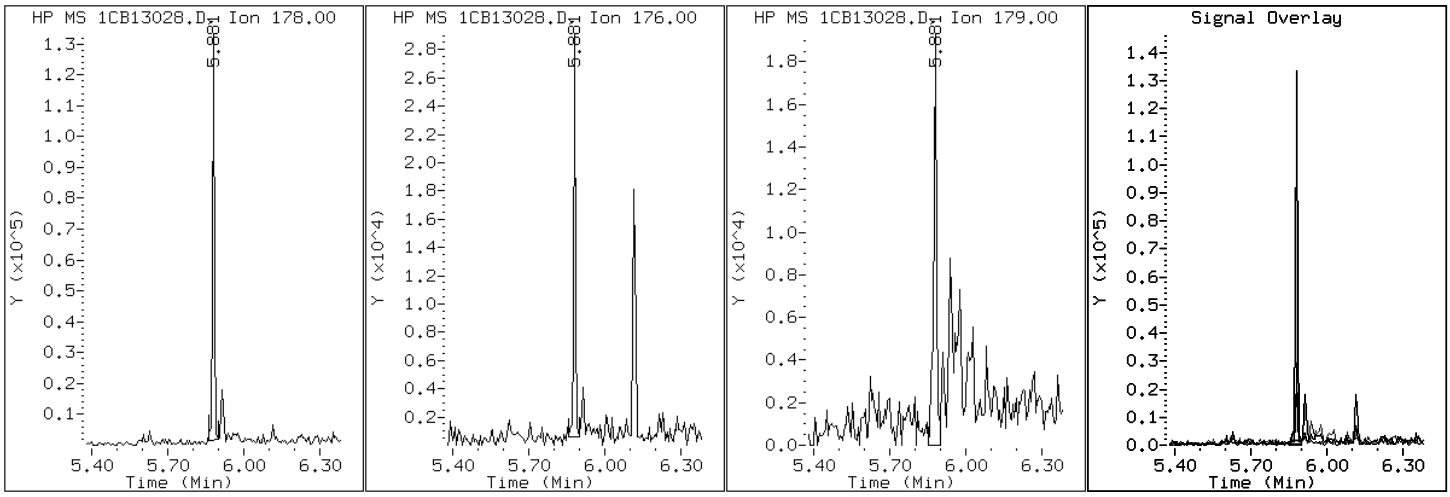
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

11 Phenanthrene



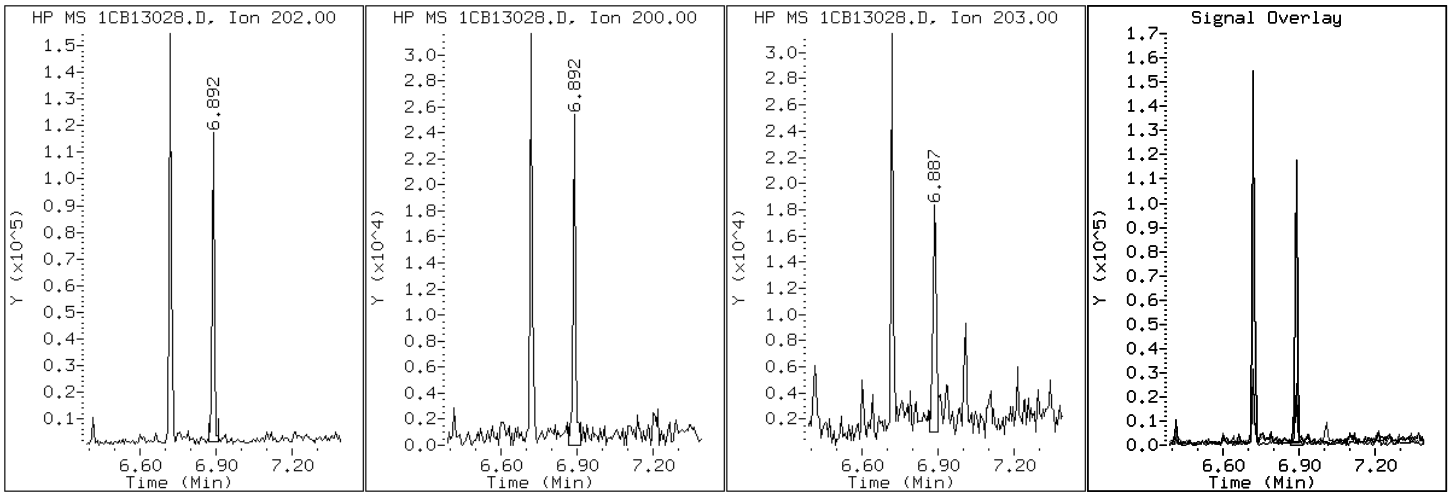
Data File: 1CB13028.D

Date: 13-FEB-2013 19:32

Client ID: CV0966A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-4-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB13028.D
Inj. Date and Time: 13-FEB-2013 19:32
Instrument ID: BSMC5973.i
Client ID: CV0966A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

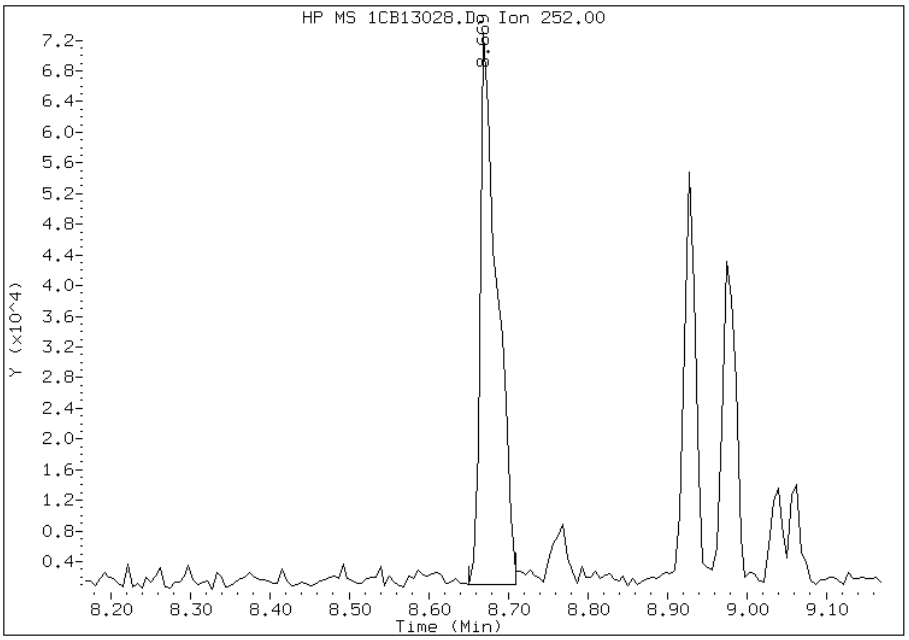
Processing Integration Results

RT: 8.67

Response: 106600

Amount: 1

Conc: 134



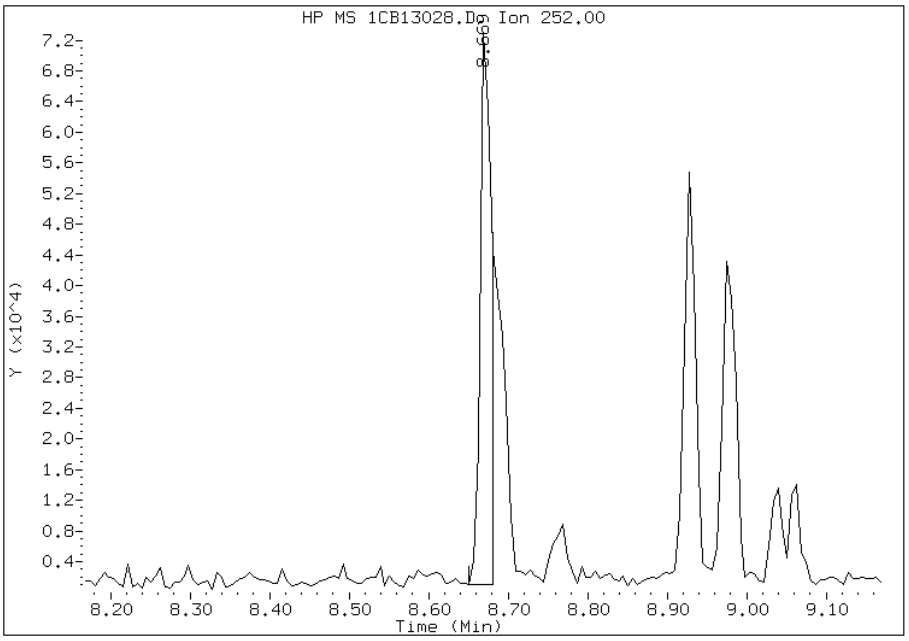
Manual Integration Results

RT: 8.67

Response: 69827

Amount: 1

Conc: 88



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:06
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB13028.D
Inj. Date and Time: 13-FEB-2013 19:32
Instrument ID: BSMC5973.i
Client ID: CV0966A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

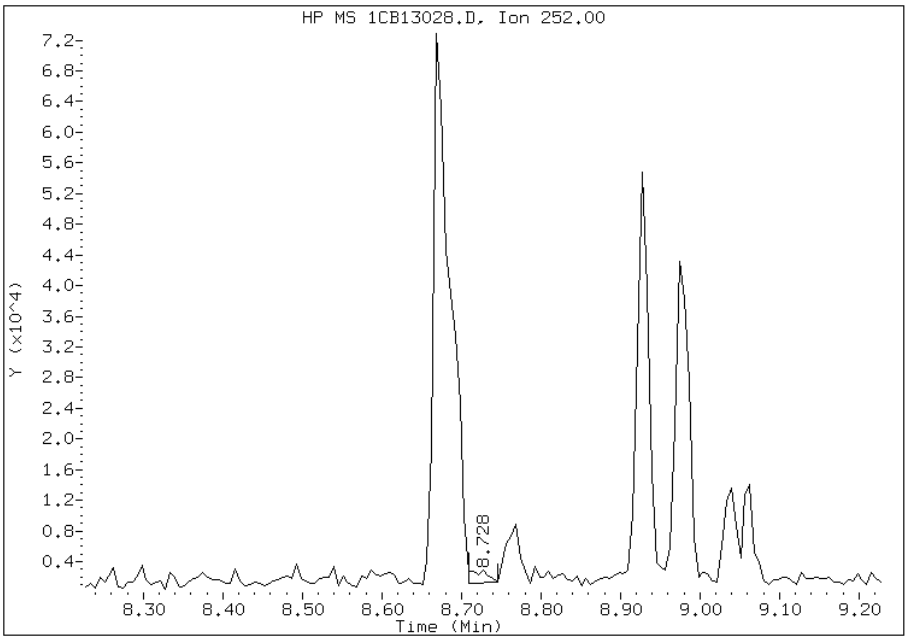
Processing Integration Results

RT: 8.73

Response: 2479

Amount: 0

Conc: 3



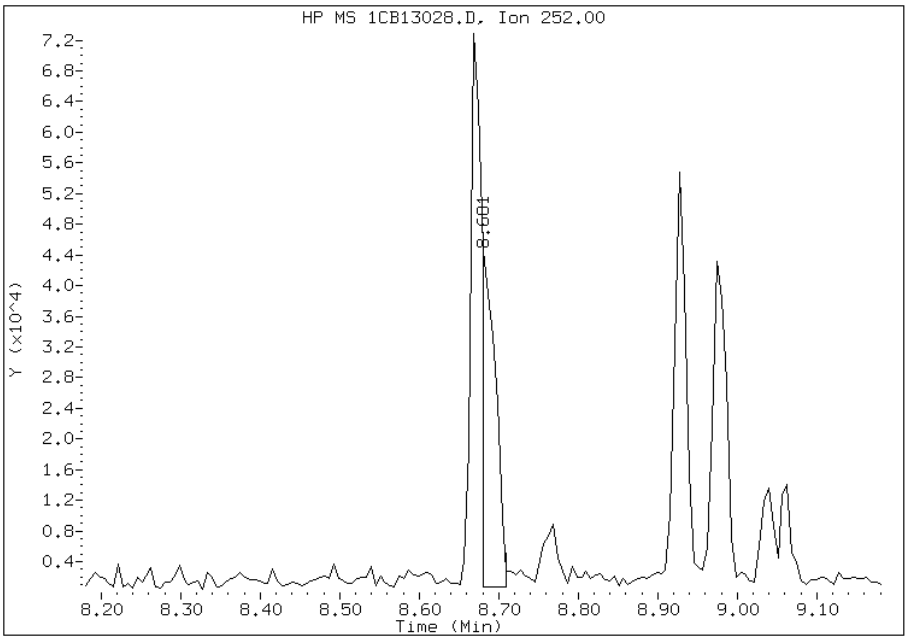
Manual Integration Results

RT: 8.68

Response: 52990

Amount: 1

Conc: 61



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:06
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB13028.D
Inj. Date and Time: 13-FEB-2013 19:32
Instrument ID: BSMC5973.i
Client ID: CV0966A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

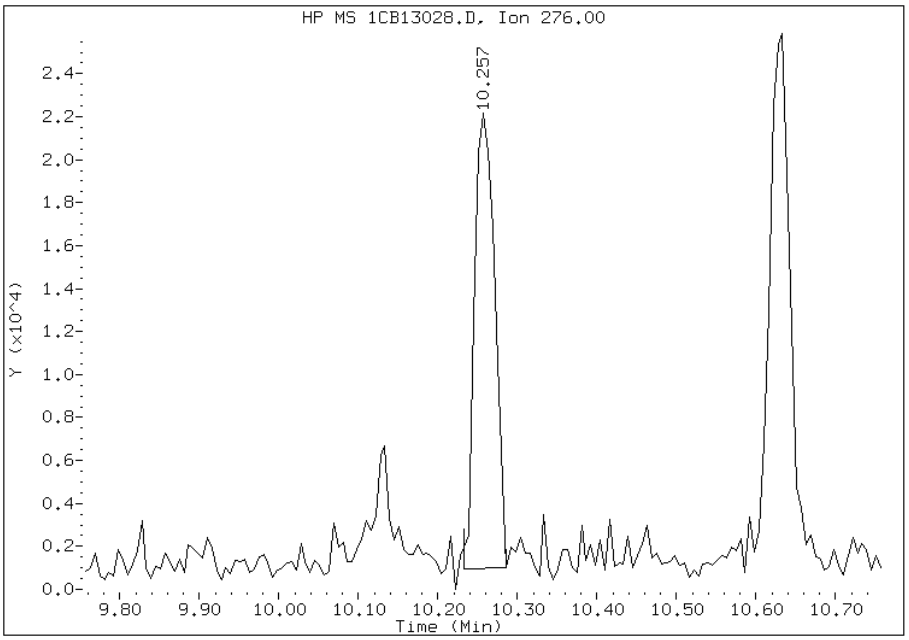
Processing Integration Results

RT: 10.26

Response: 36611

Amount: 1

Conc: 51



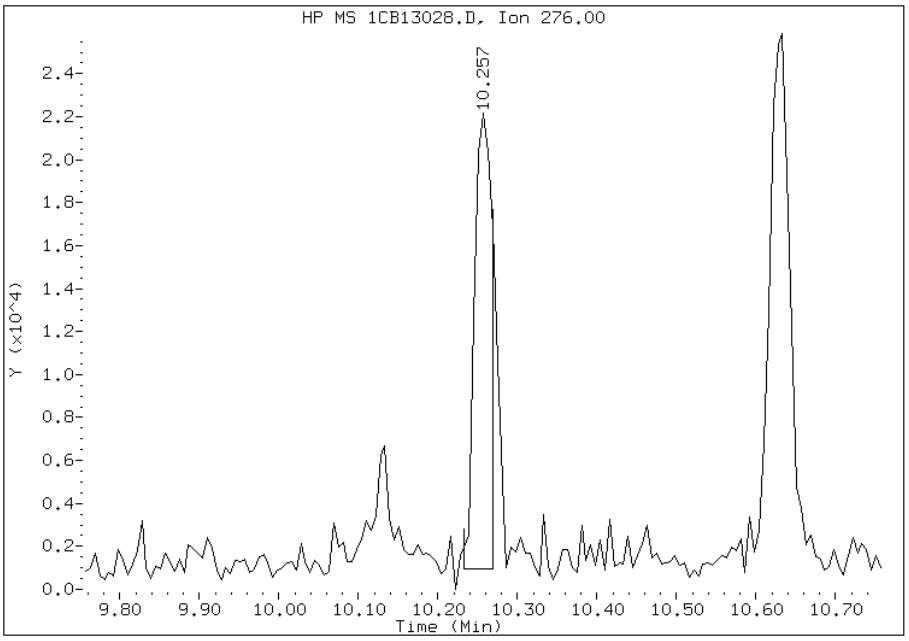
Manual Integration Results

RT: 10.26

Response: 31790

Amount: 0

Conc: 44



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:06
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0966B-CS-SP | Lab Sample ID: 680-87218-5

Matrix: Solid | Lab File ID: 1CB13029.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:36

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.08(g) | Date Analyzed: 02/13/2013 19:50

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

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

% Moisture: 41.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	680	U	680	140
208-96-8	Acenaphthylene	37	J	270	34
120-12-7	Anthracene	49	J	58	29
56-55-3	Benzo[a]anthracene	250		55	27
50-32-8	Benzo[a]pyrene	250		71	36
205-99-2	Benzo[b]fluoranthene	420		84	42
191-24-2	Benzo[g,h,i]perylene	200		140	30
207-08-9	Benzo[k]fluoranthene	170		55	25
218-01-9	Chrysene	310		62	31
53-70-3	Dibenz(a,h)anthracene	52	J	140	28
206-44-0	Fluoranthene	480		140	27
86-73-7	Fluorene	140	U	140	28
193-39-5	Indeno[1,2,3-cd]pyrene	160		140	49
90-12-0	1-Methylnaphthalene	140	J	270	30
91-57-6	2-Methylnaphthalene	180	J	270	49
91-20-3	Naphthalene	180	J	270	30
85-01-8	Phenanthrene	310	B	55	27
129-00-0	Pyrene	380		140	25

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	120		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13029.D
Lab Smp Id: 680-87218-A-5-A Client Smp ID: CV0966B-CS-SP
Inj Date : 13-FEB-2013 19:50
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-5-a
Misc Info : 680-87218-A-5-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 29
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	15.080	Weight Extracted
M	41.905	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2336886	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1790377	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3198309	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	140619	3.00067	1370.0498
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3245088	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	3015378	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	24728	0.39933	182.3245
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	15845	0.39352	179.6740
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	11450	0.31267	142.7586
5 Acenaphthylene	152	4.821	4.821	(0.982)	5845	0.08206	37.4668
11 Phenanthrene	178	5.880	5.880	(1.003)	65301	0.68401	312.3079
12 Anthracene	178	5.915	5.915	(1.009)	9148	0.10636	48.5601
13 Carbazole	167	6.021	6.021	(1.027)	9262	0.12397	56.6015
15 Fluoranthene	202	6.721	6.721	(1.146)	97758	1.04795	478.4749

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.892	6.892	(0.882)	71219	0.82437	376.3913
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	48945	0.54695	249.7253
19 Chrysene	228	7.833	7.833	(1.002)	62375	0.67479	308.0966
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	68724	0.92962	424.4456(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.961)	30762	0.37771	172.4555(MH)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	38714	0.55034	251.2738
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.135)	23053	0.34119	155.7826(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.280	(1.135)	7289	0.11440	52.2323
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	29399	0.42835	195.5760

QC Flag Legend

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

Data File: 1CB13029.D

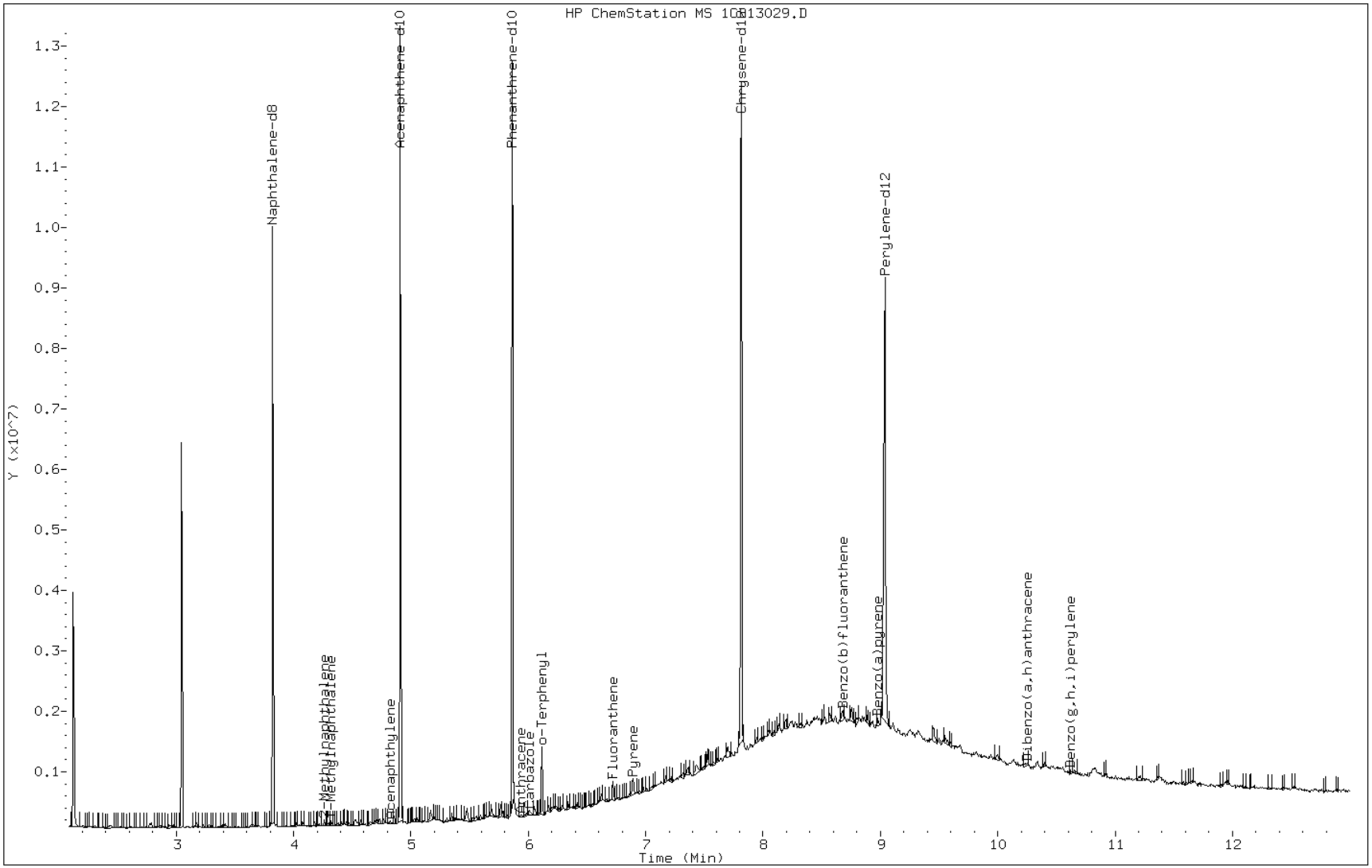
Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a

Operator: SCC



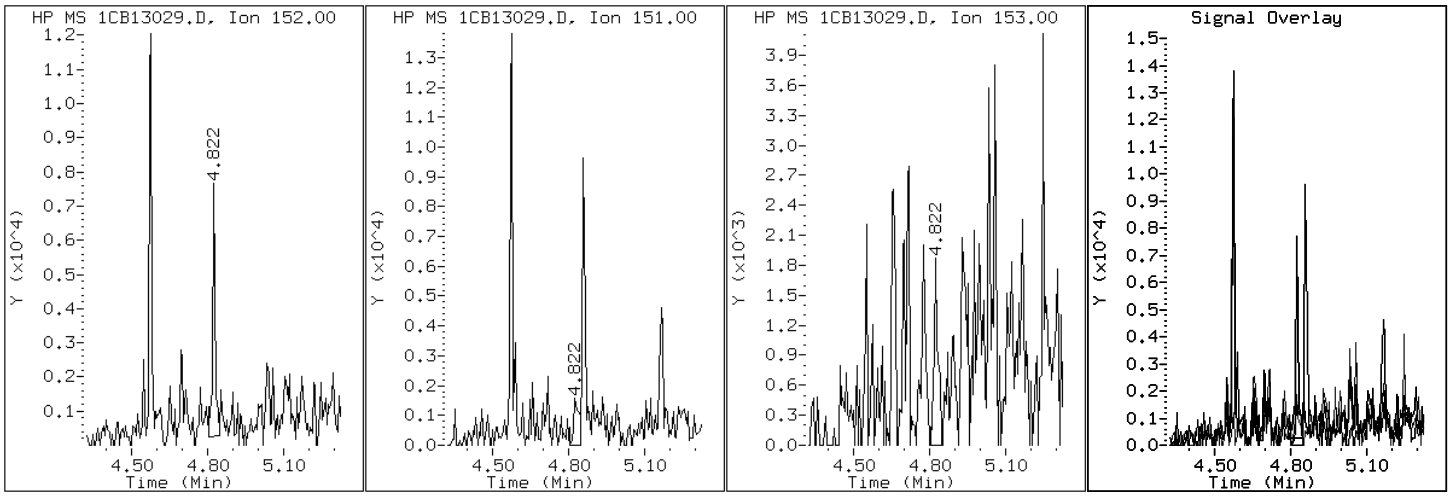
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

5 Acenaphthylene



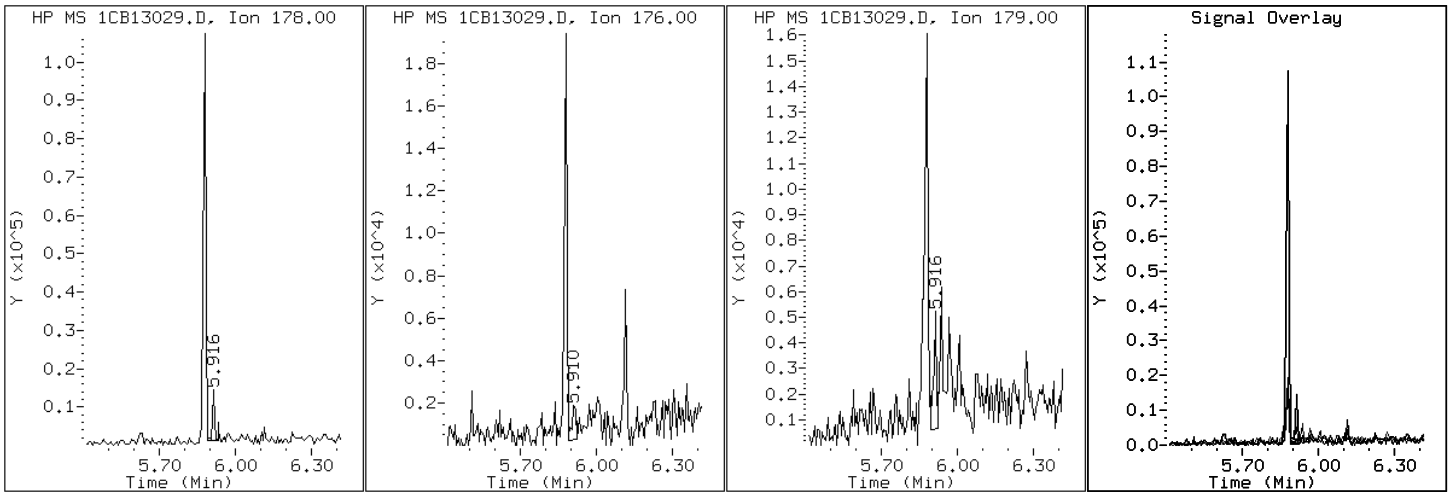
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

12 Anthracene



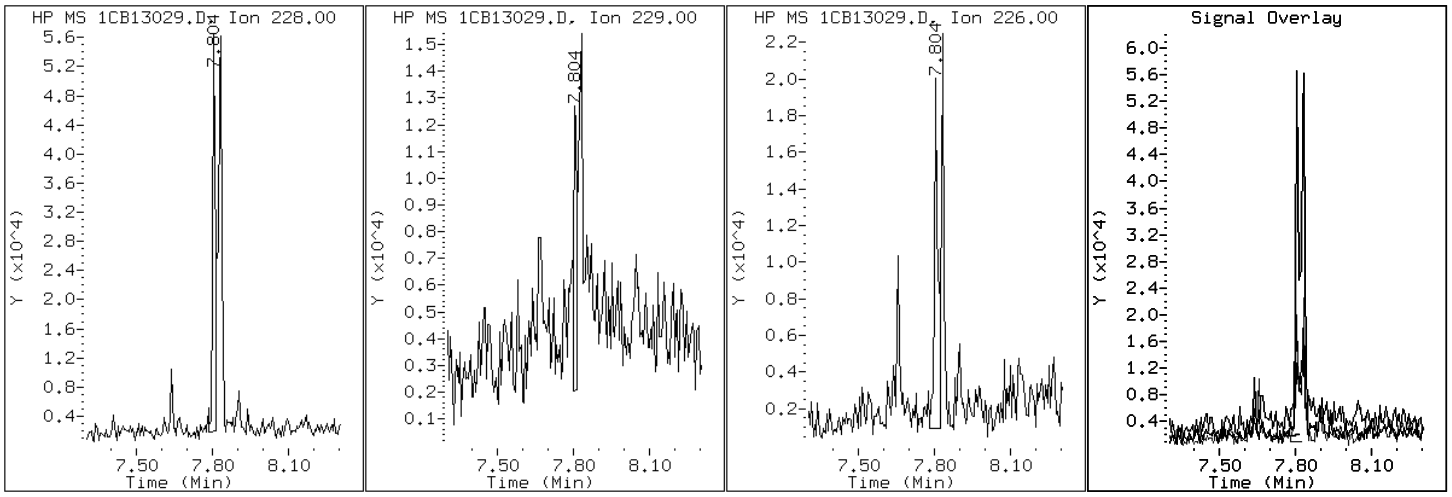
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

17 Benzo(a)anthracene



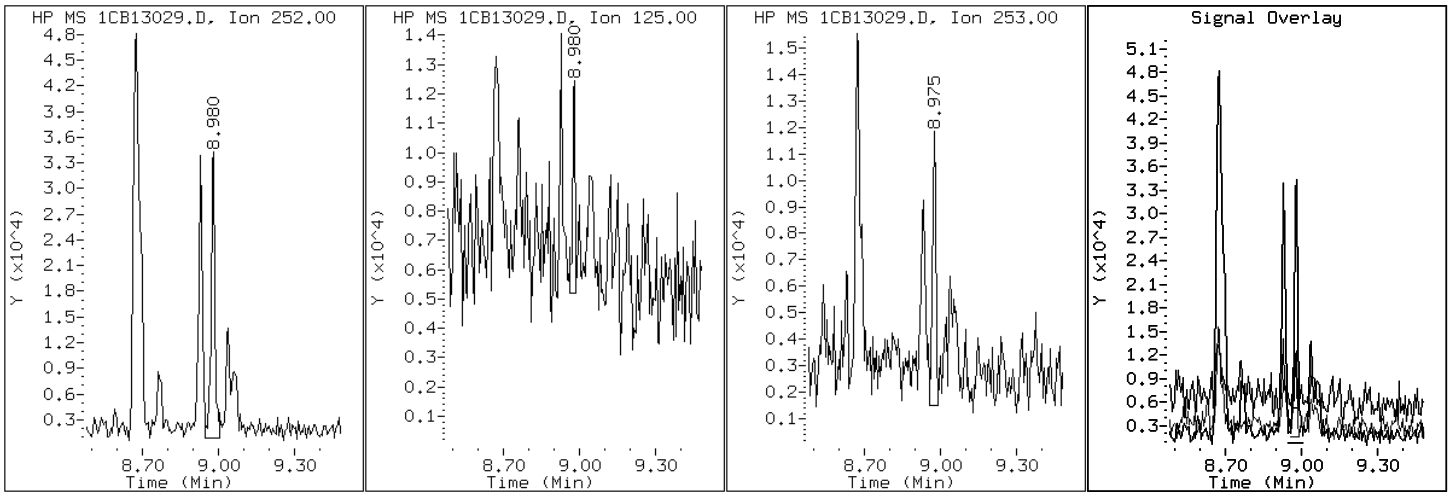
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

22 Benzo(a)pyrene



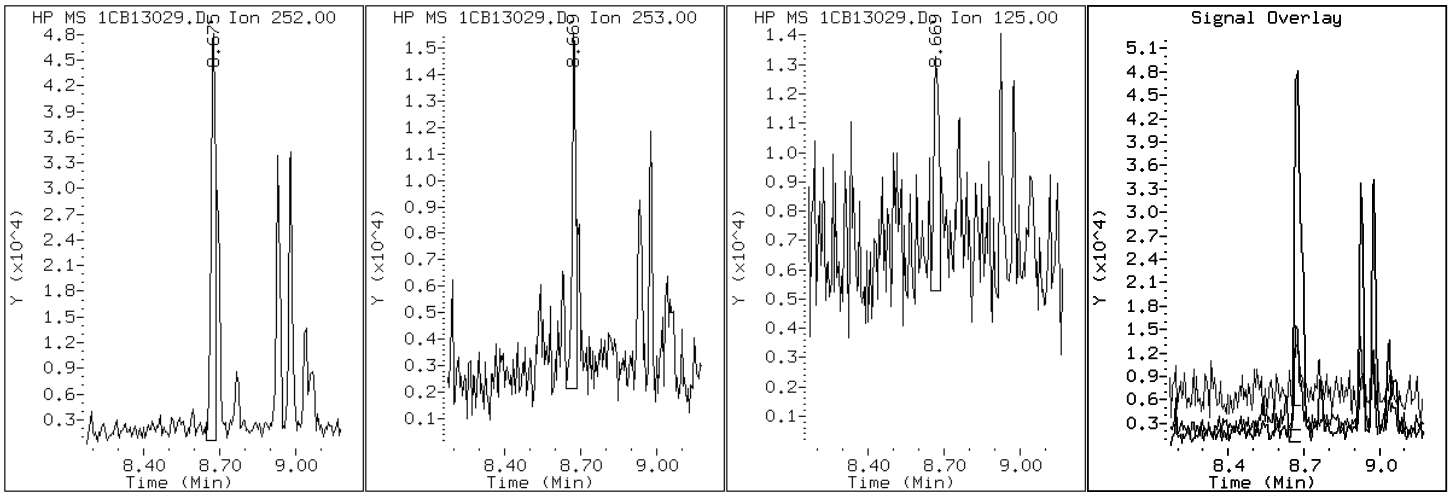
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

20 Benzo(b)fluoranthene



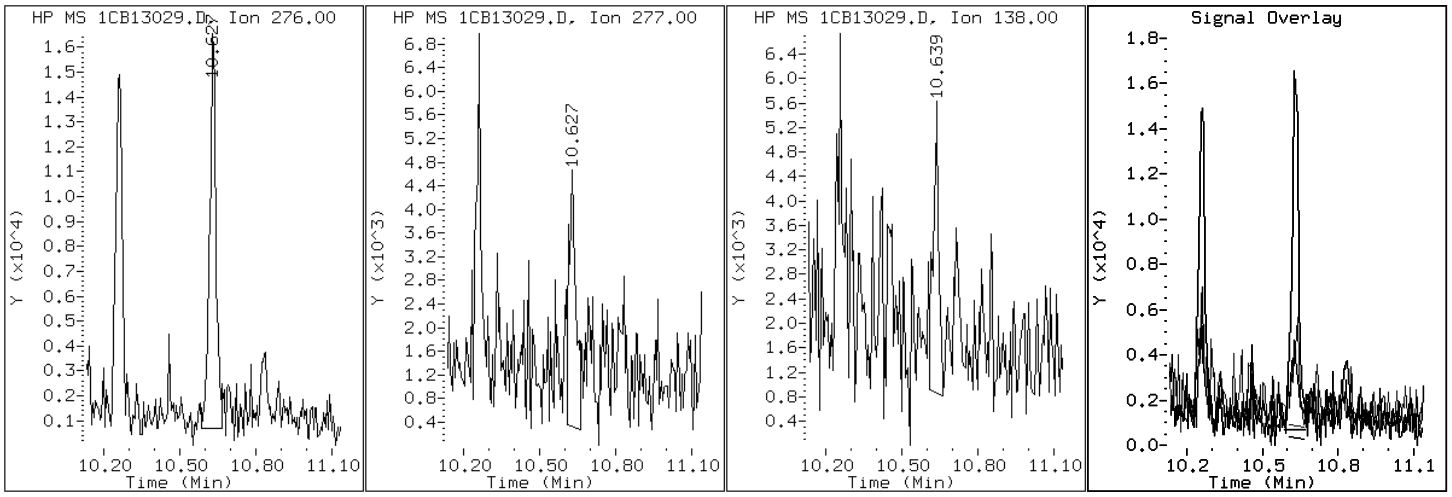
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

26 Benzo(g,h,i)perylene



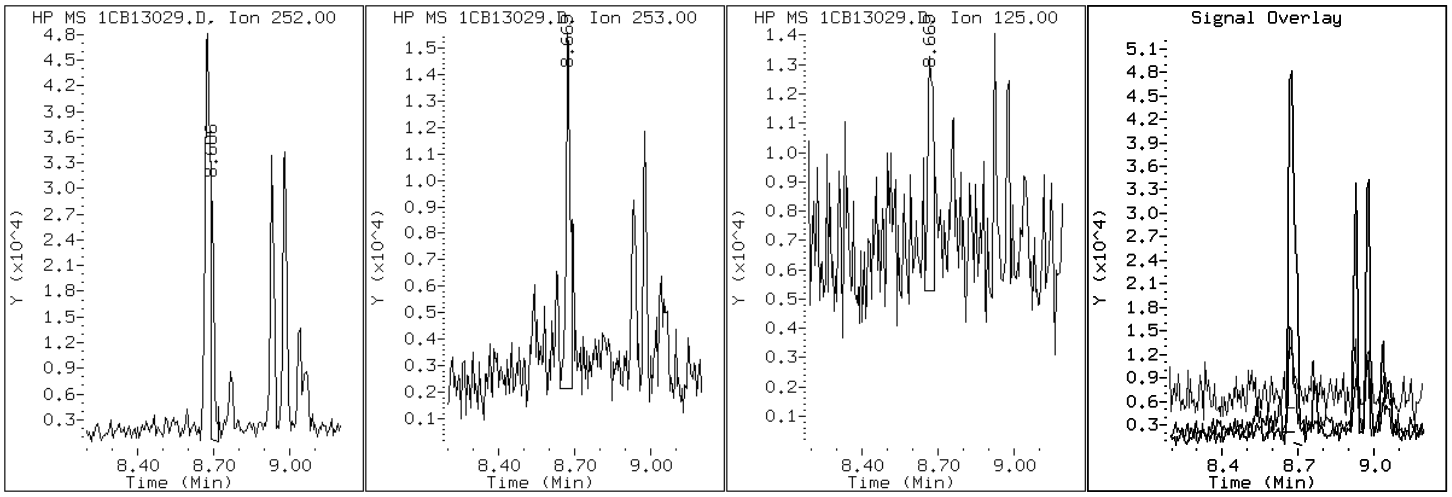
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

21 Benzo(k)fluoranthene



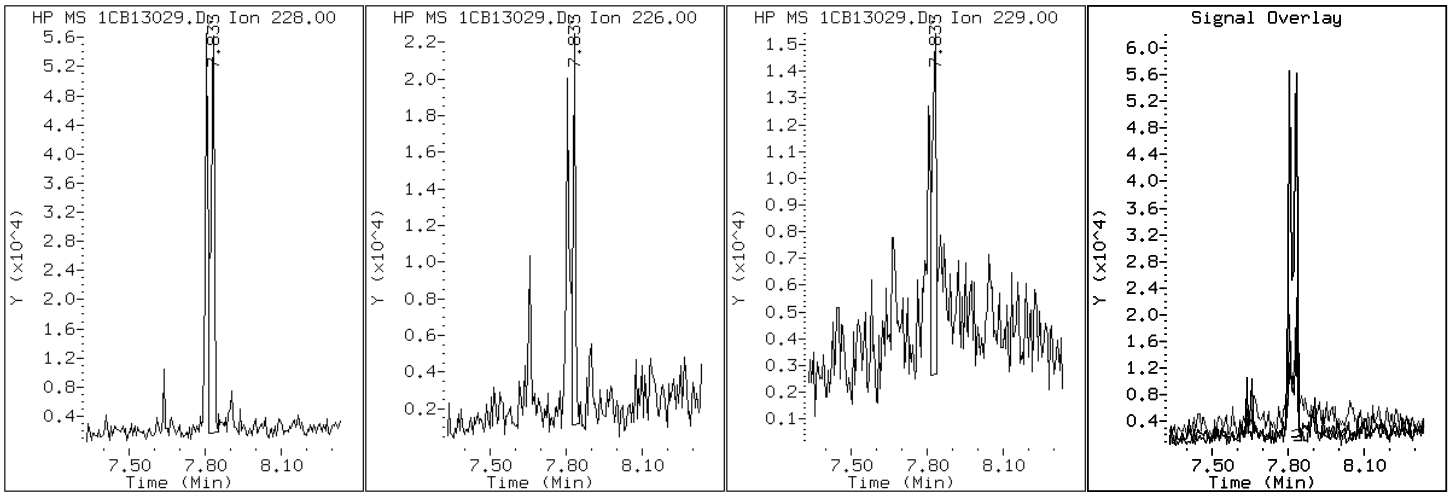
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

19 Chrysene



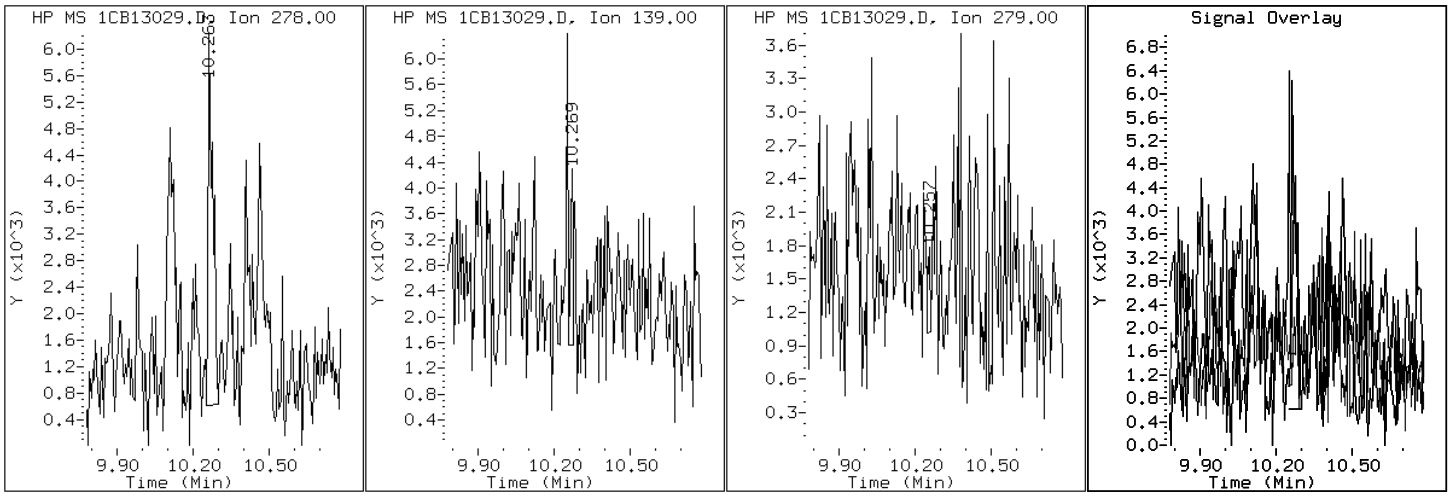
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

25 Dibenzo(a,h)anthracene



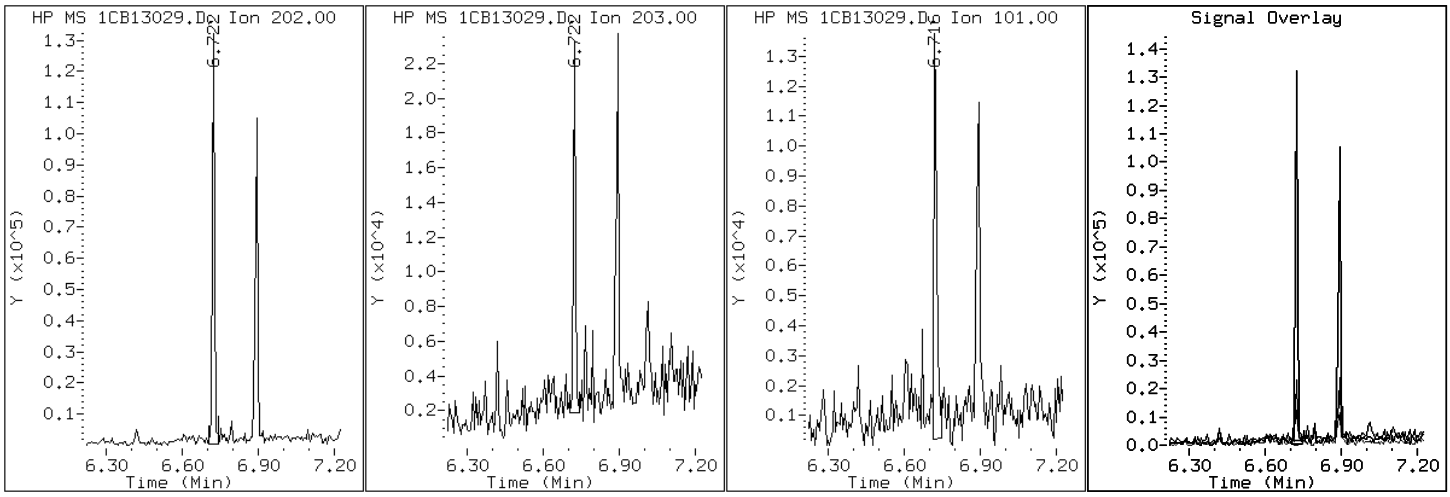
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

15 Fluoranthene



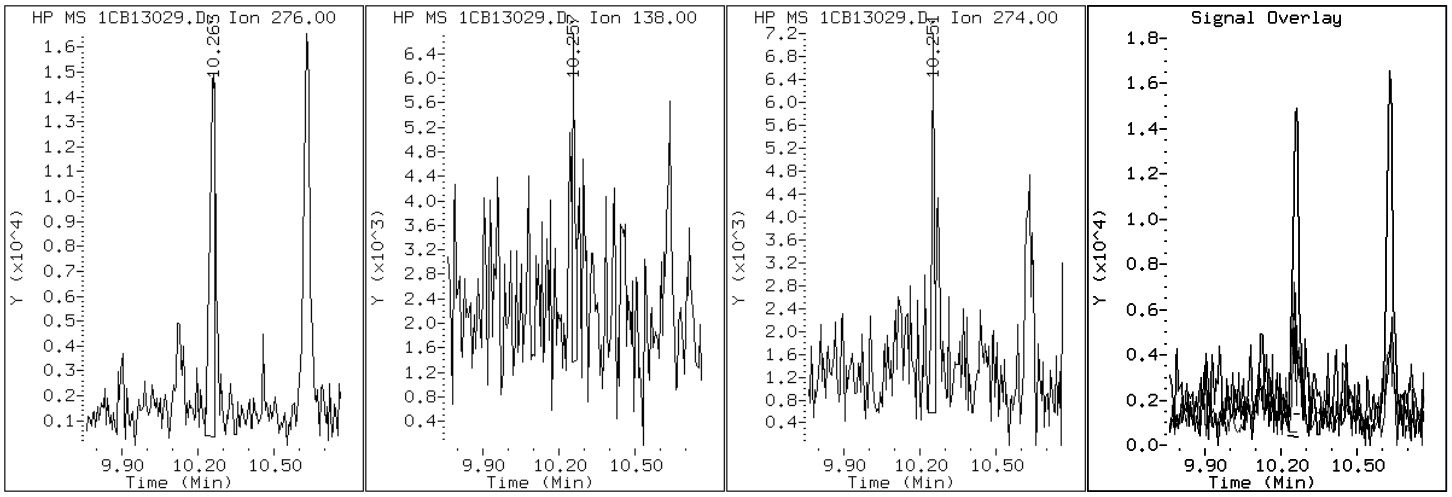
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

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



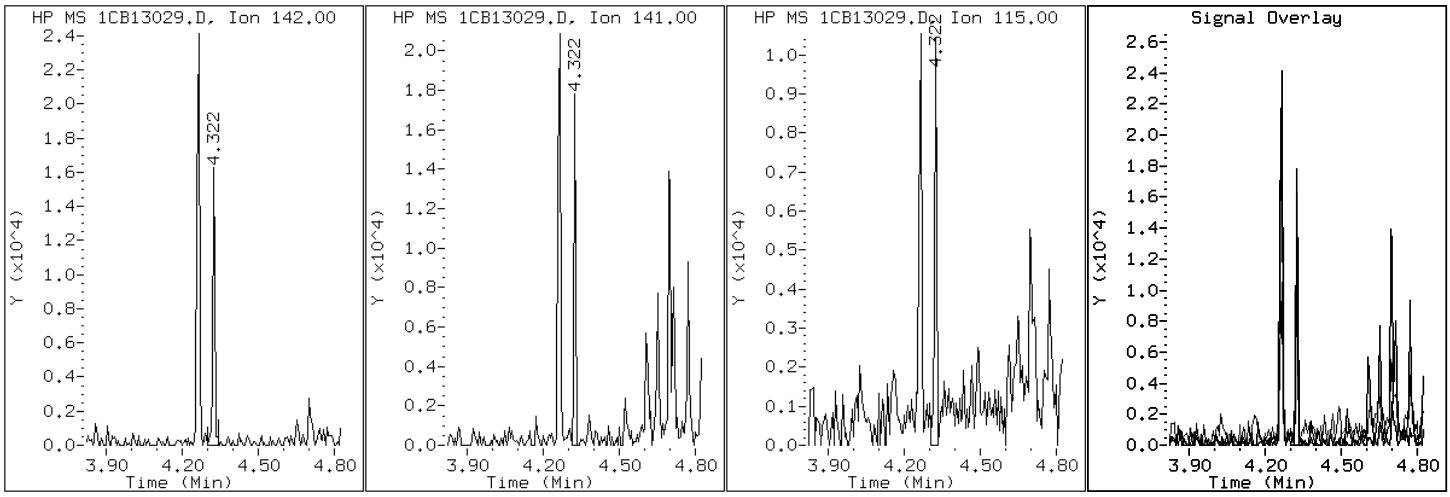
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

4 1-Methylnaphthalene



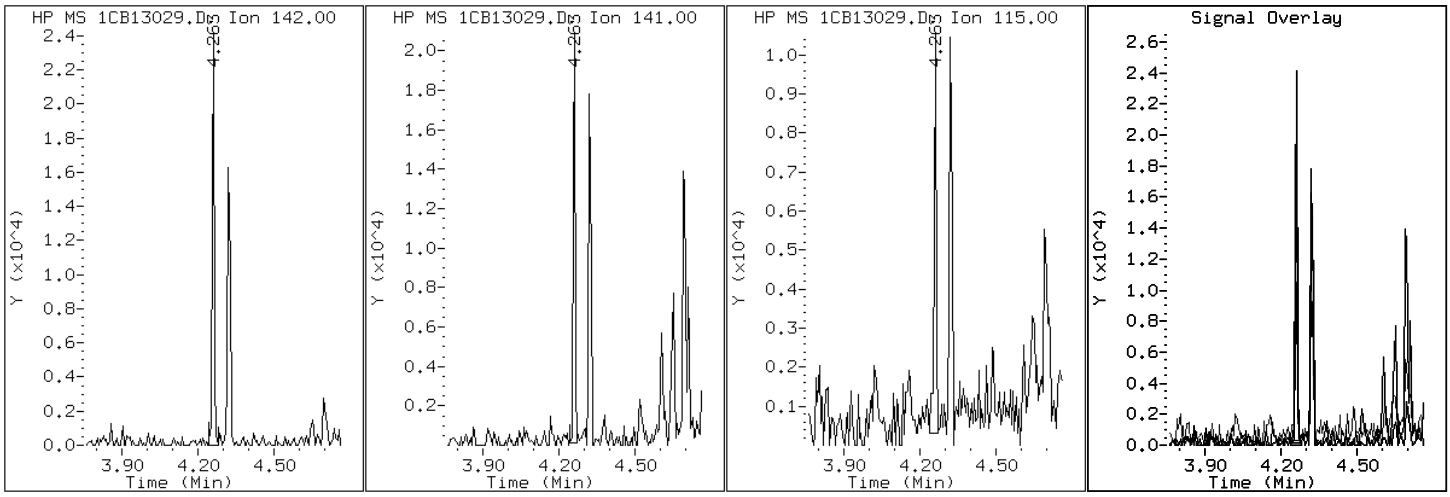
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

3 2-Methylnaphthalene



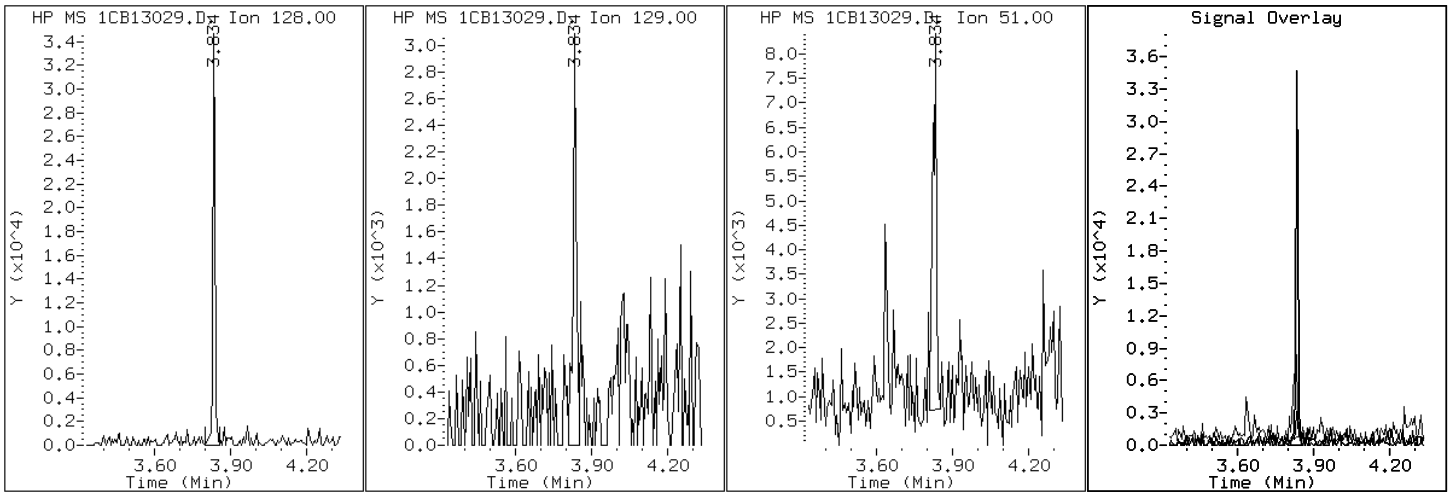
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

2 Naphthalene



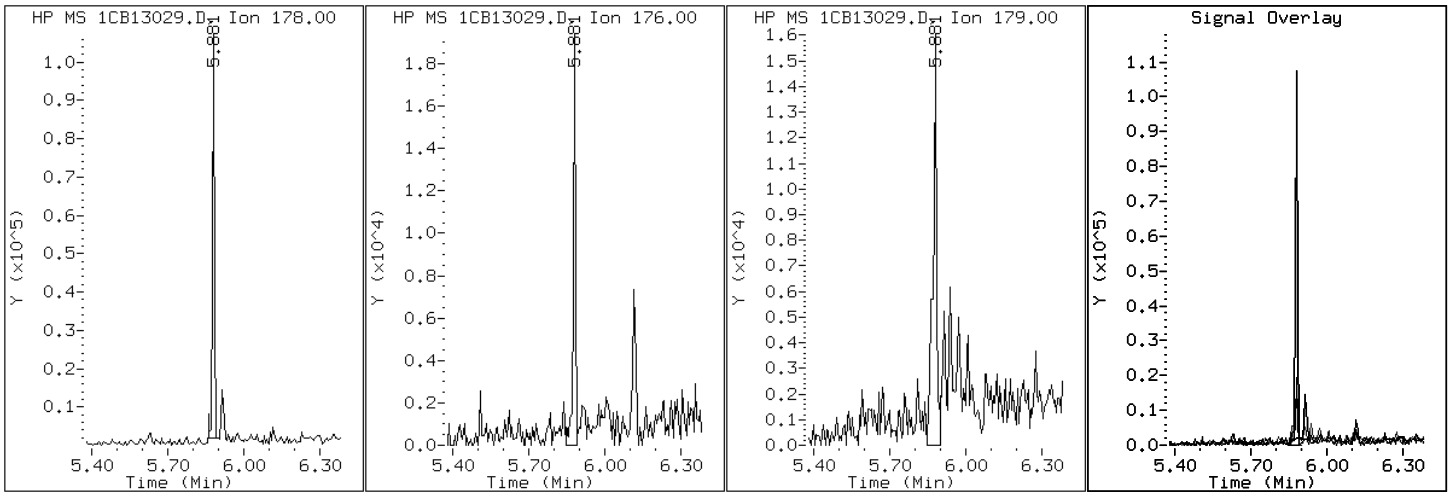
Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

Client ID: CV0966B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a Operator: SCC

11 Phenanthrene



Data File: 1CB13029.D

Date: 13-FEB-2013 19:50

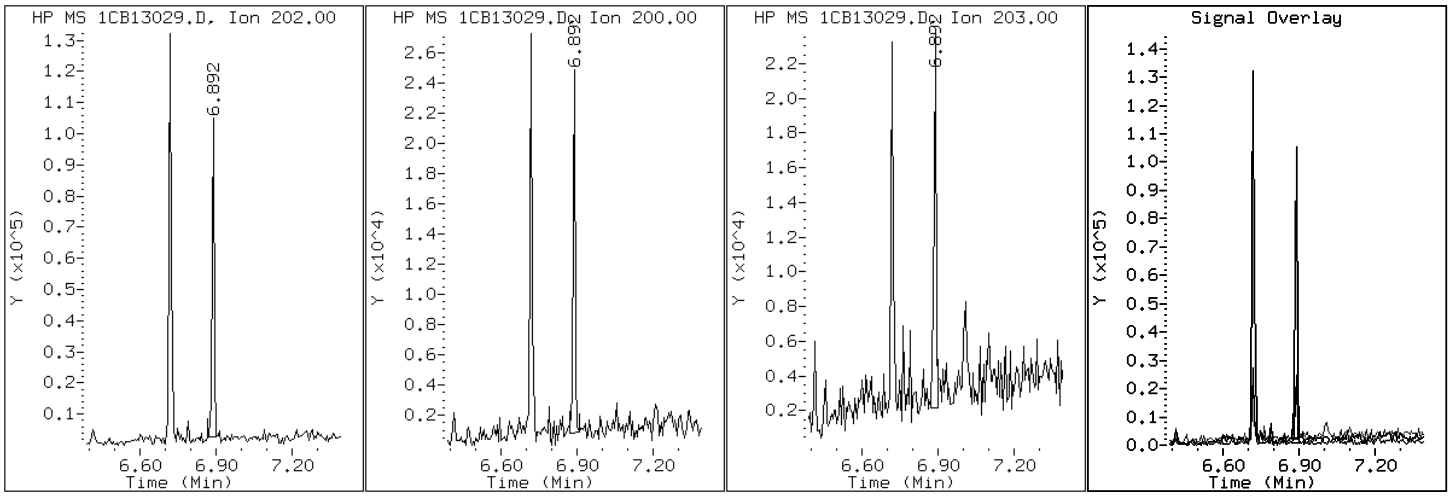
Client ID: CV0966B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-5-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB13029.D
Inj. Date and Time: 13-FEB-2013 19:50
Instrument ID: BSMC5973.i
Client ID: CV0966B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

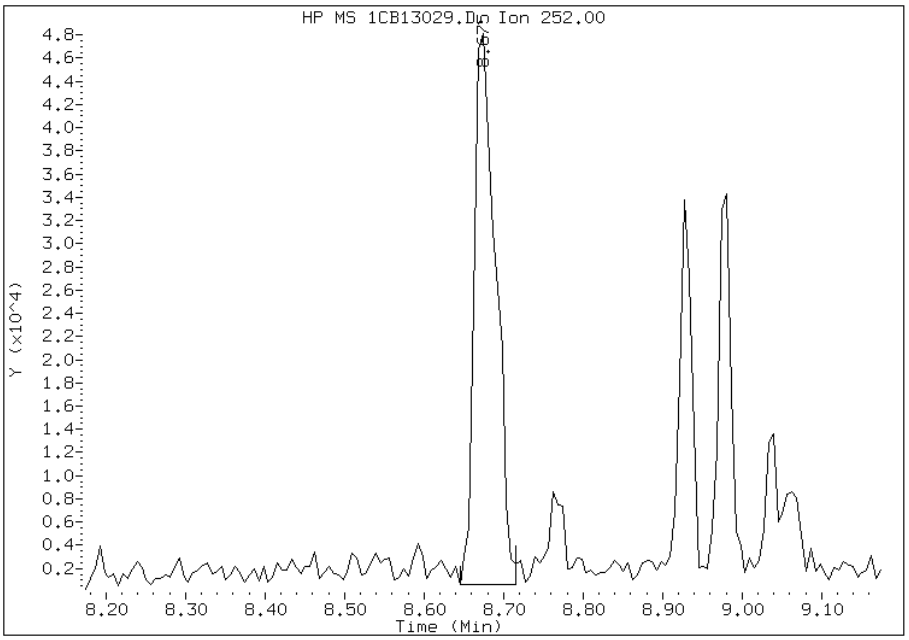
Processing Integration Results

RT: 8.67

Response: 88842

Amount: 1

Conc: 549



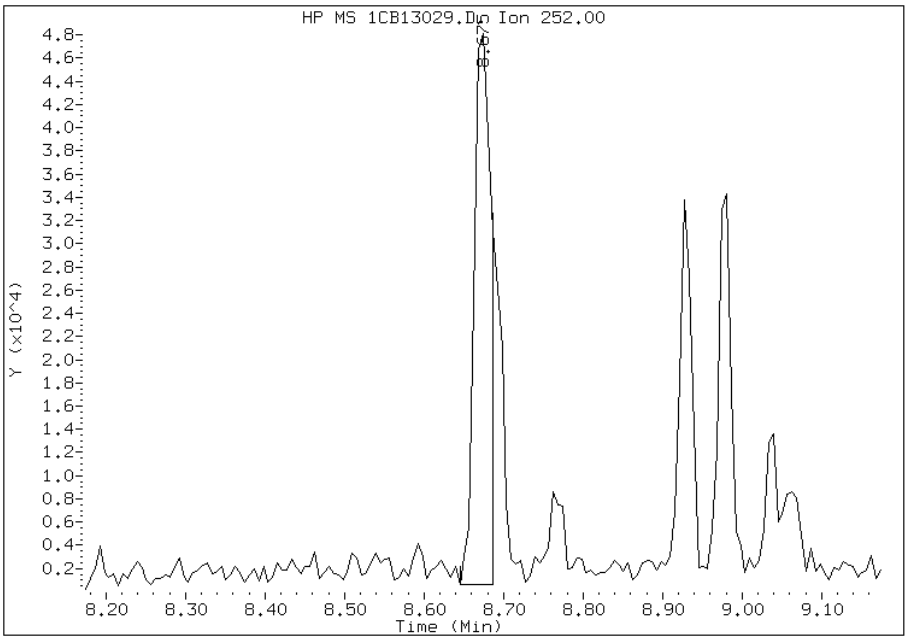
Manual Integration Results

RT: 8.67

Response: 68724

Amount: 1

Conc: 424



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:07
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB13029.D
Inj. Date and Time: 13-FEB-2013 19:50
Instrument ID: BSMC5973.i
Client ID: CV0966B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

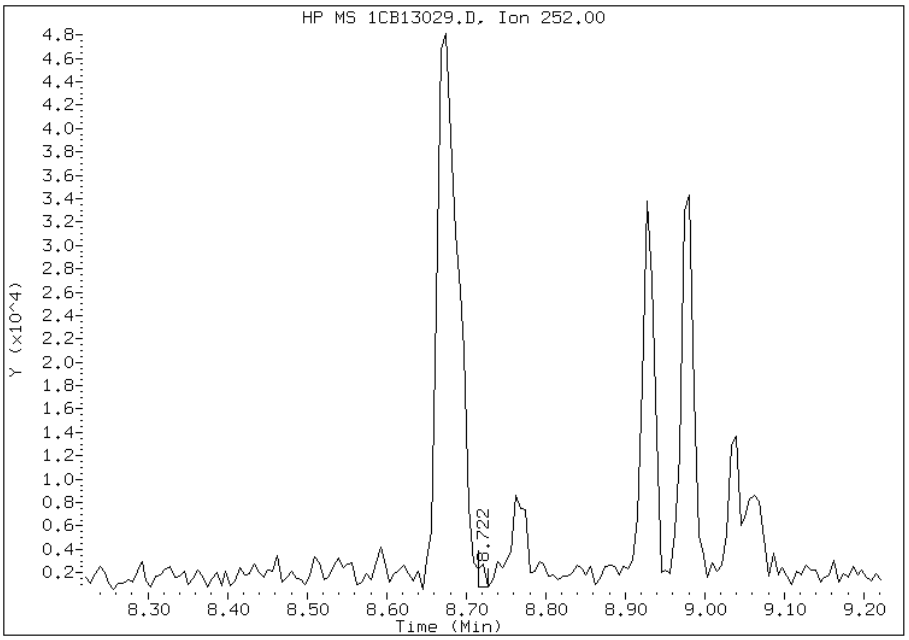
Processing Integration Results

RT: 8.72

Response: 1207

Amount: 0

Conc: 7



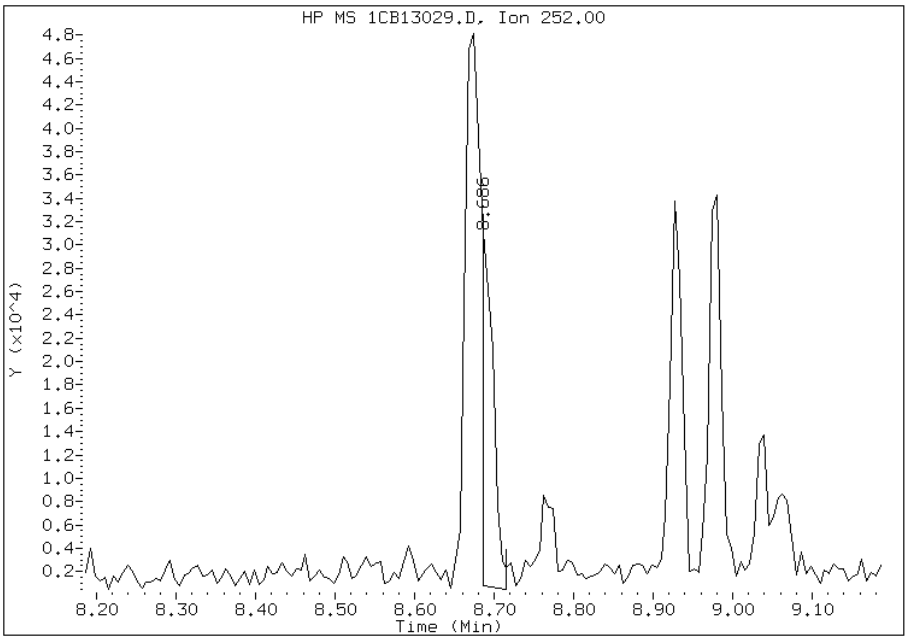
Manual Integration Results

RT: 8.69

Response: 30762

Amount: 0

Conc: 172



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:07
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB13029.D
Inj. Date and Time: 13-FEB-2013 19:50
Instrument ID: BSMC5973.i
Client ID: CV0966B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

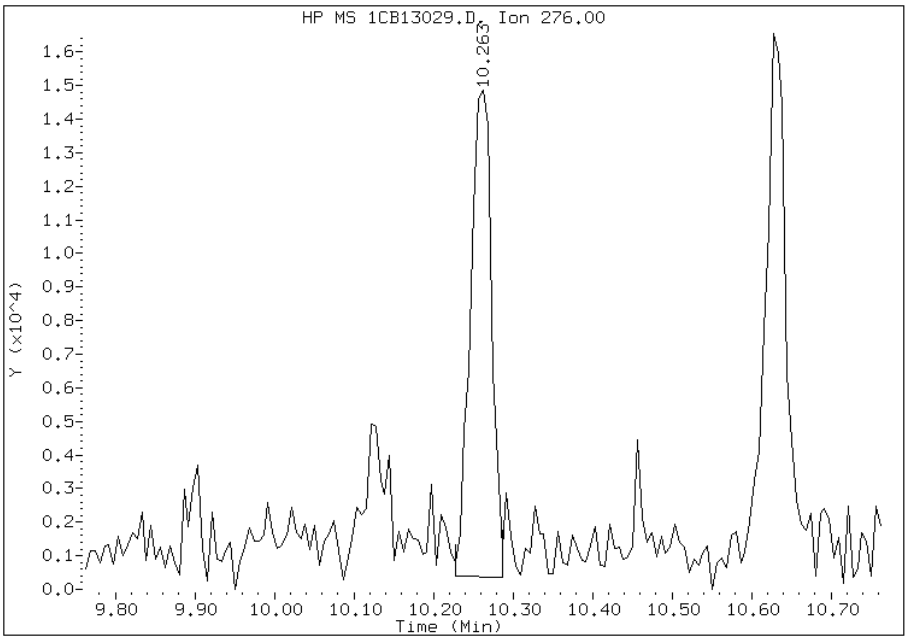
Processing Integration Results

RT: 10.26

Response: 26722

Amount: 0

Conc: 181



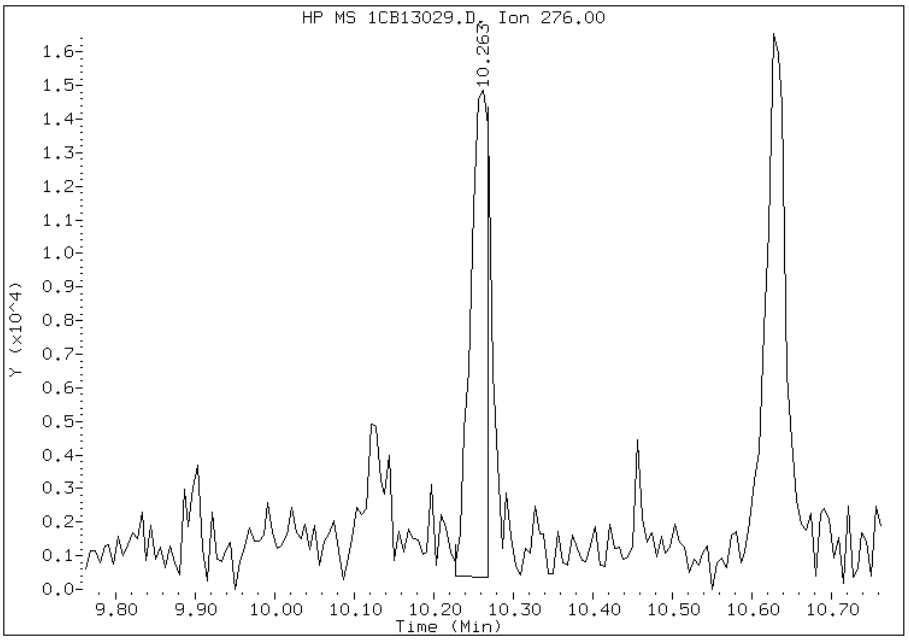
Manual Integration Results

RT: 10.26

Response: 23053

Amount: 0

Conc: 156



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:08
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: HP0325A-CS-SP | Lab Sample ID: 680-87218-6

Matrix: Solid | Lab File ID: 1CB13030.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 08:55

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.12(g) | Date Analyzed: 02/13/2013 20:08

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

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

% Moisture: 36.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	31
208-96-8	Acenaphthylene	23	J	62	7.8
120-12-7	Anthracene	23		13	6.5
56-55-3	Benzo[a]anthracene	130		12	6.0
50-32-8	Benzo[a]pyrene	120		16	8.1
205-99-2	Benzo[b]fluoranthene	210		19	9.5
191-24-2	Benzo[g,h,i]perylene	97		31	6.8
207-08-9	Benzo[k]fluoranthene	88		12	5.6
218-01-9	Chrysene	150		14	7.0
53-70-3	Dibenz(a,h)anthracene	26	J	31	6.4
206-44-0	Fluoranthene	240		31	6.2
86-73-7	Fluorene	11	J	31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	70		31	11
90-12-0	1-Methylnaphthalene	59	J	62	6.8
91-57-6	2-Methylnaphthalene	74		62	11
91-20-3	Naphthalene	100		62	6.8
85-01-8	Phenanthrene	140	B	12	6.0
129-00-0	Pyrene	200		31	5.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	90		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13030.D
Lab Smp Id: 680-87218-A-6-A Client Smp ID: HP0325A-CS-SP
Inj Date : 13-FEB-2013 20:08
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-6-a
Misc Info : 680-87218-A-6-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.120	Weight Extracted
M	36.024	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2329421	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1785558	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3356994	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	441533	8.97650	927.9740
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3576285	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	3243394	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	59515	0.96417	99.6741
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	28886	0.71970	74.4012
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	20693	0.56688	58.6030
5 Acenaphthylene	152	4.821	4.821	(0.982)	15739	0.22156	22.9045
9 Fluorene	166	5.251	5.251	(1.069)	6196	0.10834	11.1998(Q)
11 Phenanthrene	178	5.880	5.880	(1.003)	139510	1.39226	143.9291
12 Anthracene	178	5.915	5.915	(1.009)	19671	0.21789	22.5247
13 Carbazole	167	6.021	6.021	(1.027)	14863	0.18953	19.5934

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	229346	2.34234	242.1466
16 Pyrene	202	6.892	6.892	(0.882)	185909	1.95263	201.8594
17 Benzo(a)anthracene	228	7.803	7.804	(0.998)	122110	1.23817	128.0001
19 Chrysene	228	7.833	7.833	(1.002)	145629	1.42955	147.7845
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	158865	1.99786	206.5353(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.961)	74408	0.84939	87.8081(QMH)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	90151	1.19144	123.1692
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.262	(1.134)	49219	0.67725	70.0127(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.136)	17523	0.25568	26.4321
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.176)	69434	0.94054	97.2316

QC Flag Legend

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

Data File: 1CB13030.D

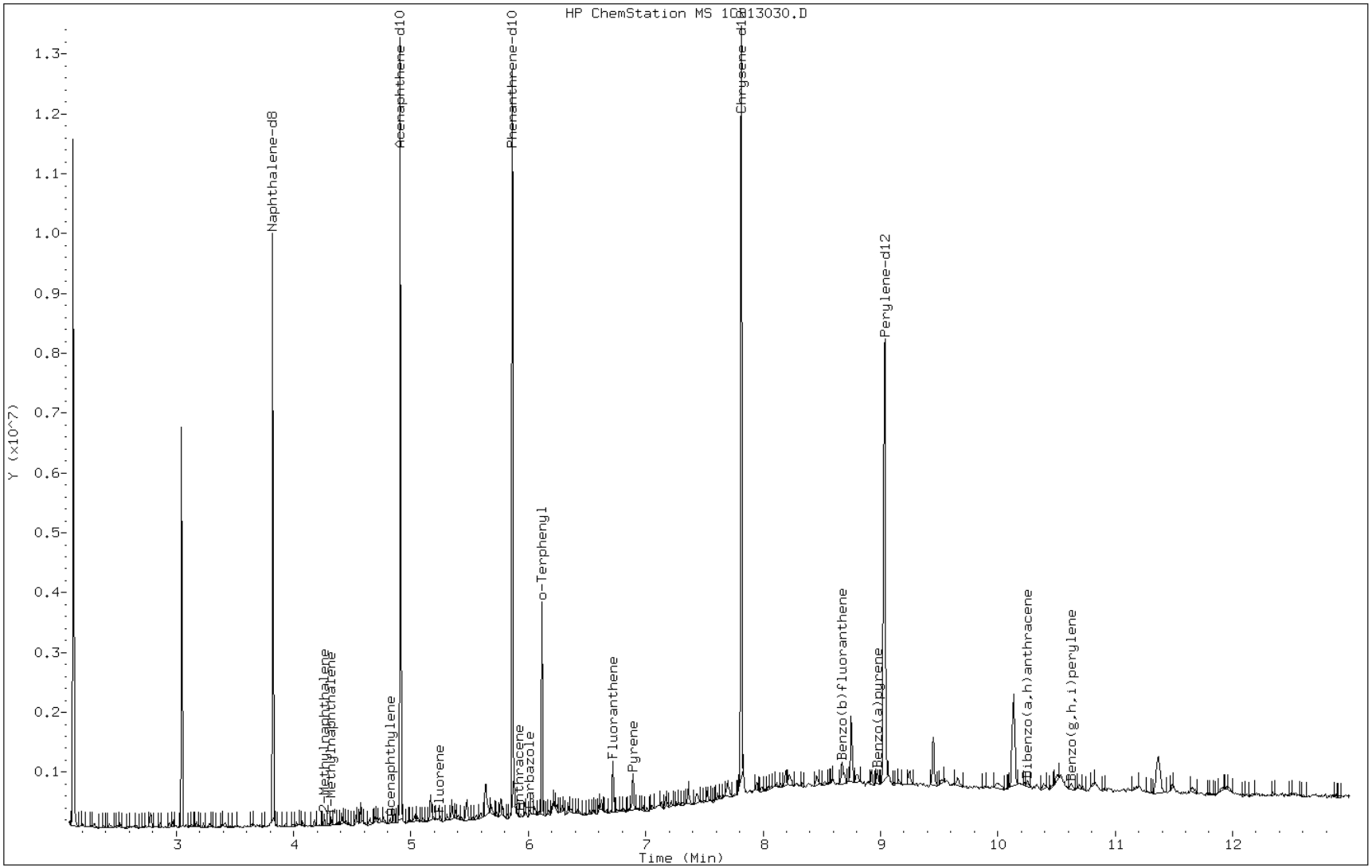
Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a

Operator: SCC



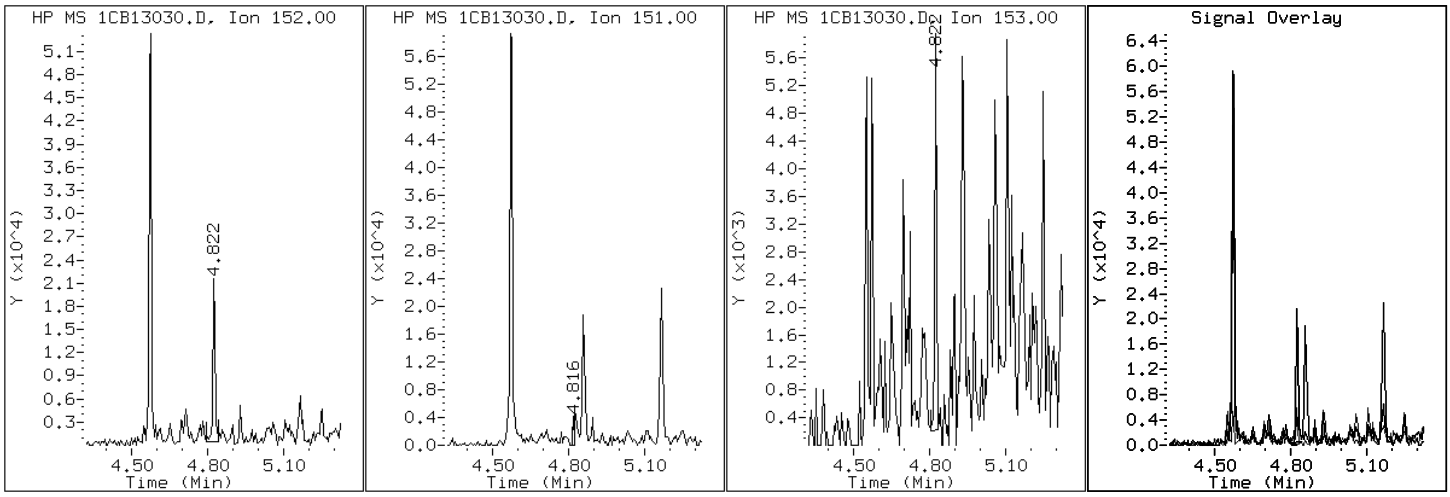
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

5 Acenaphthylene



Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

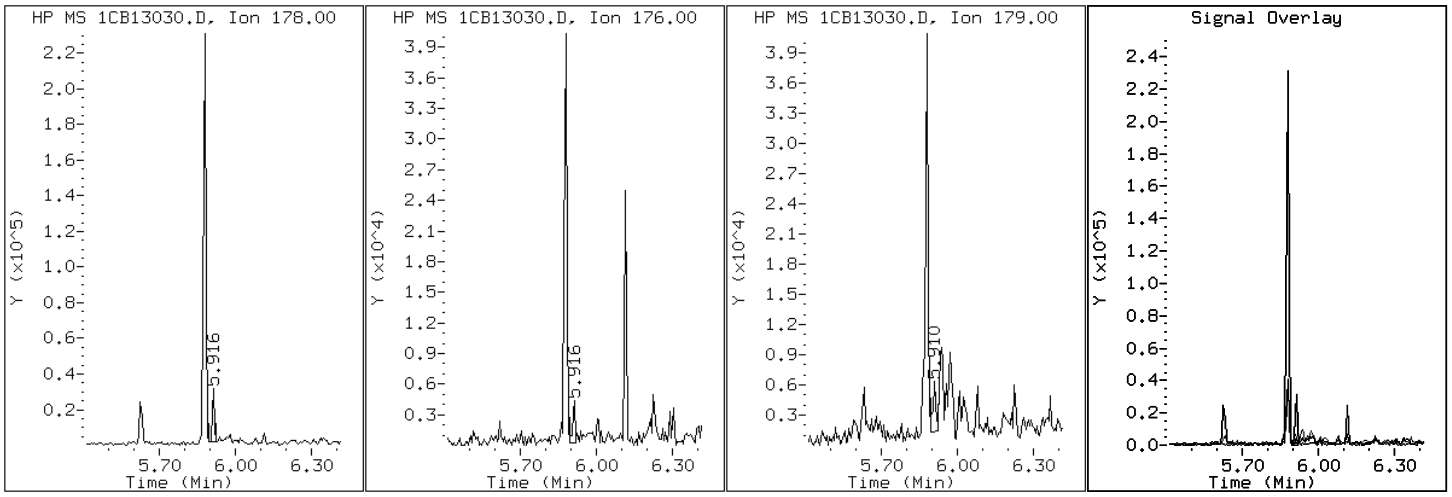
Client ID: HP0325A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a

Operator: SCC

12 Anthracene



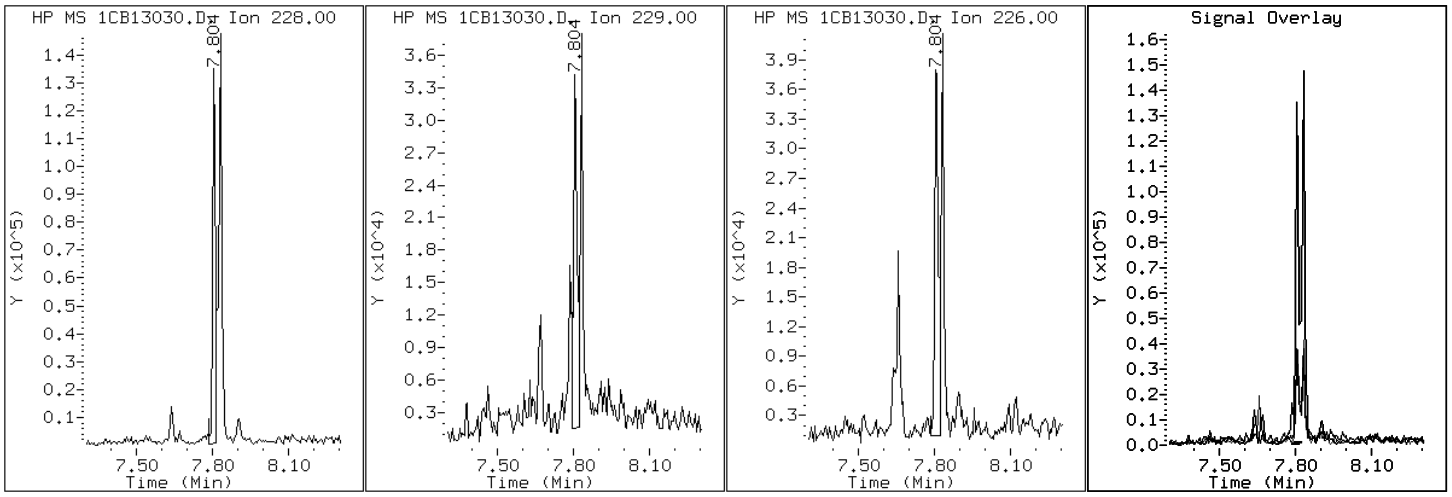
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

17 Benzo(a)anthracene



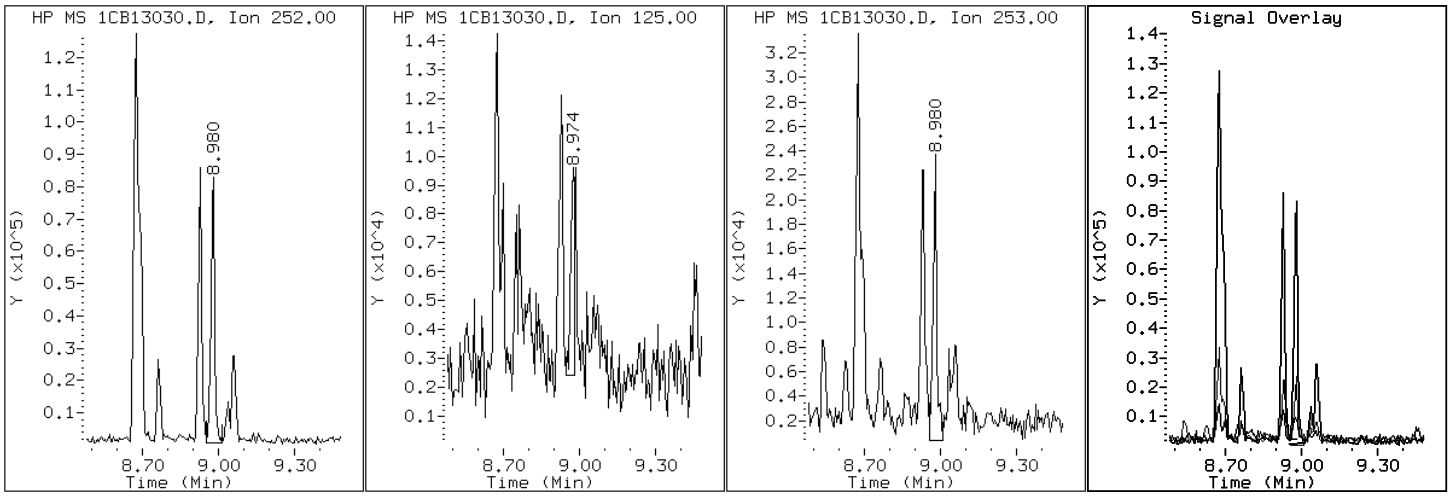
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

22 Benzo(a)pyrene



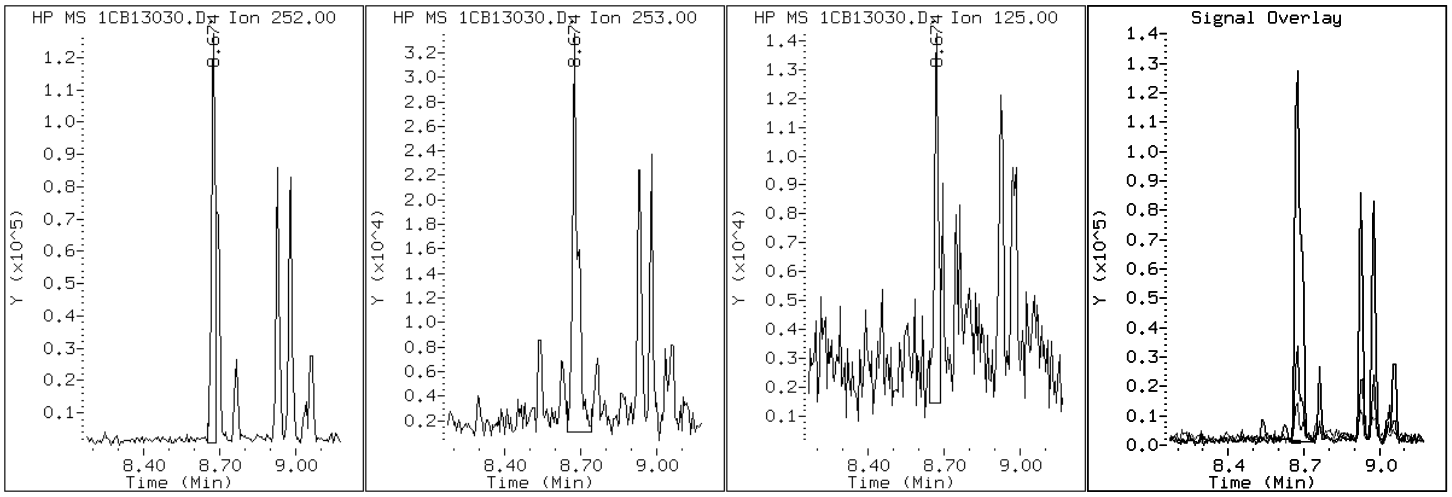
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

20 Benzo(b)fluoranthene



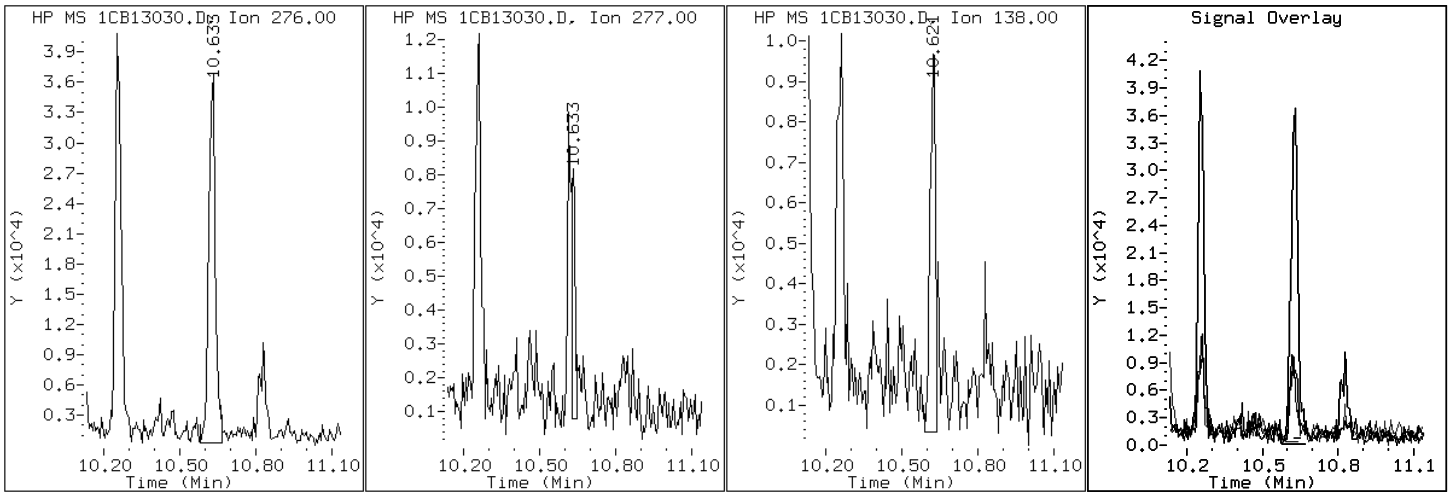
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

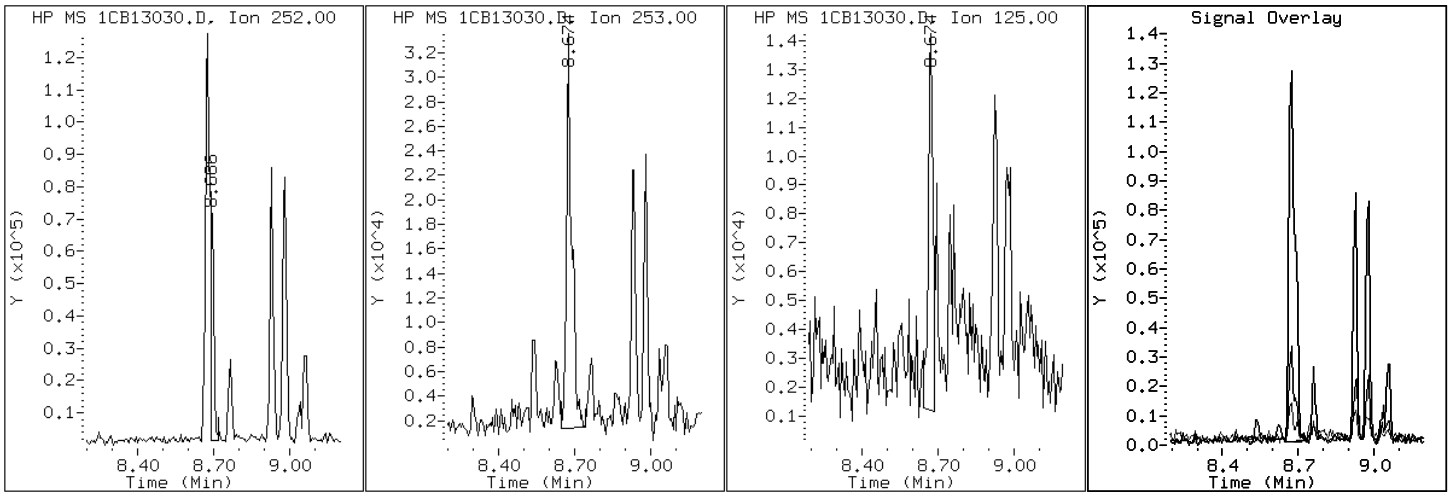
Client ID: HP0325A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a

Operator: SCC

21 Benzo(k)fluoranthene



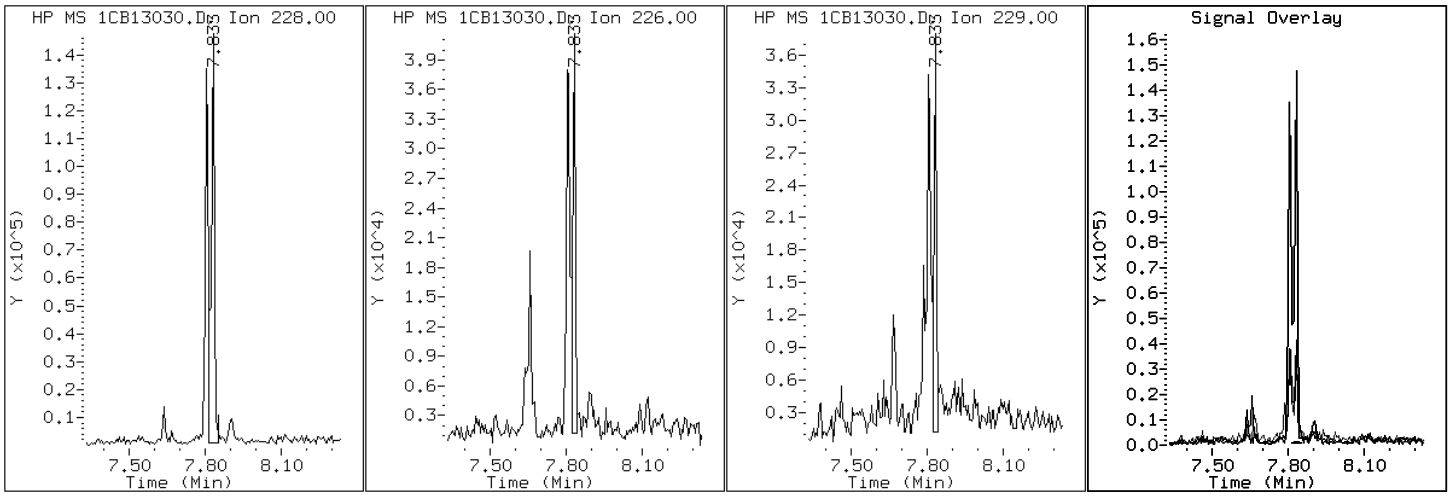
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

19 Chrysene



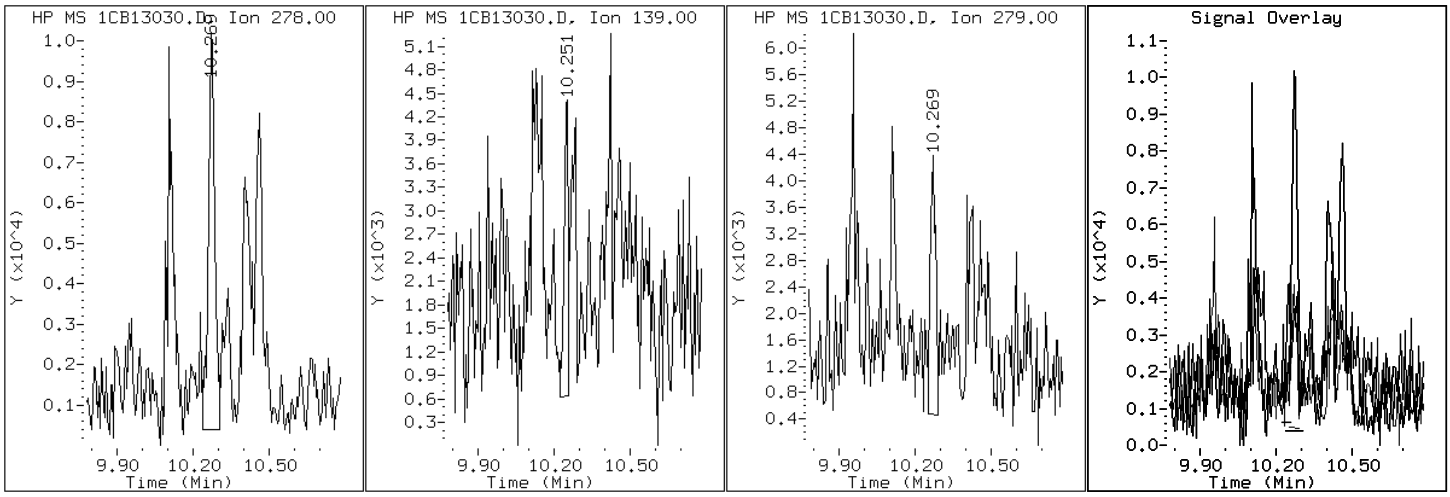
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

25 Dibenzo(a,h)anthracene



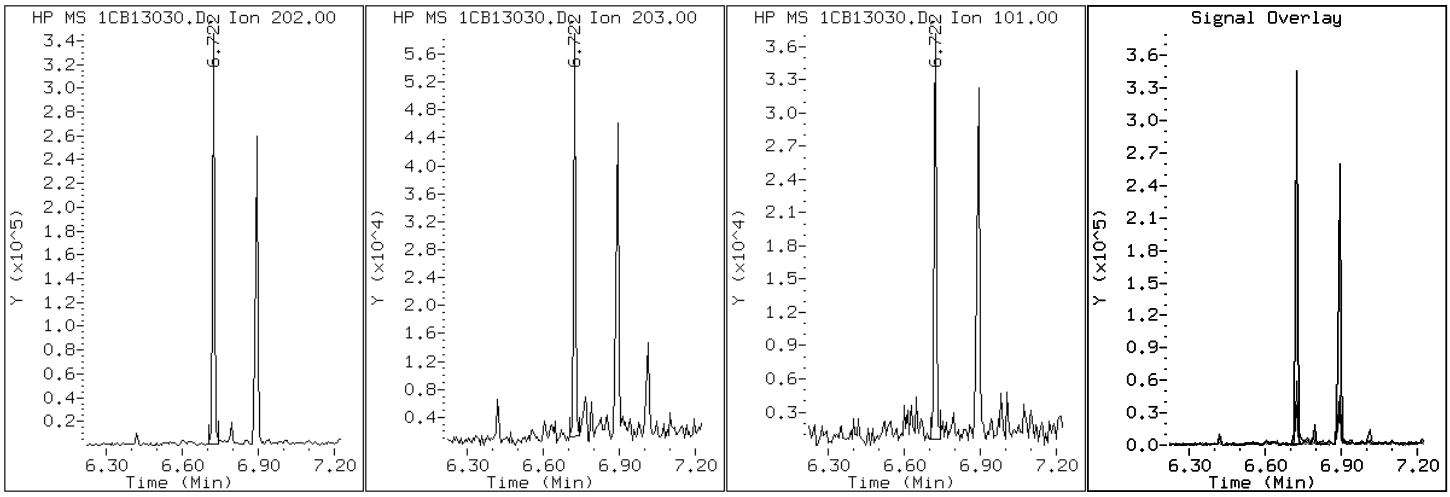
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

15 Fluoranthene



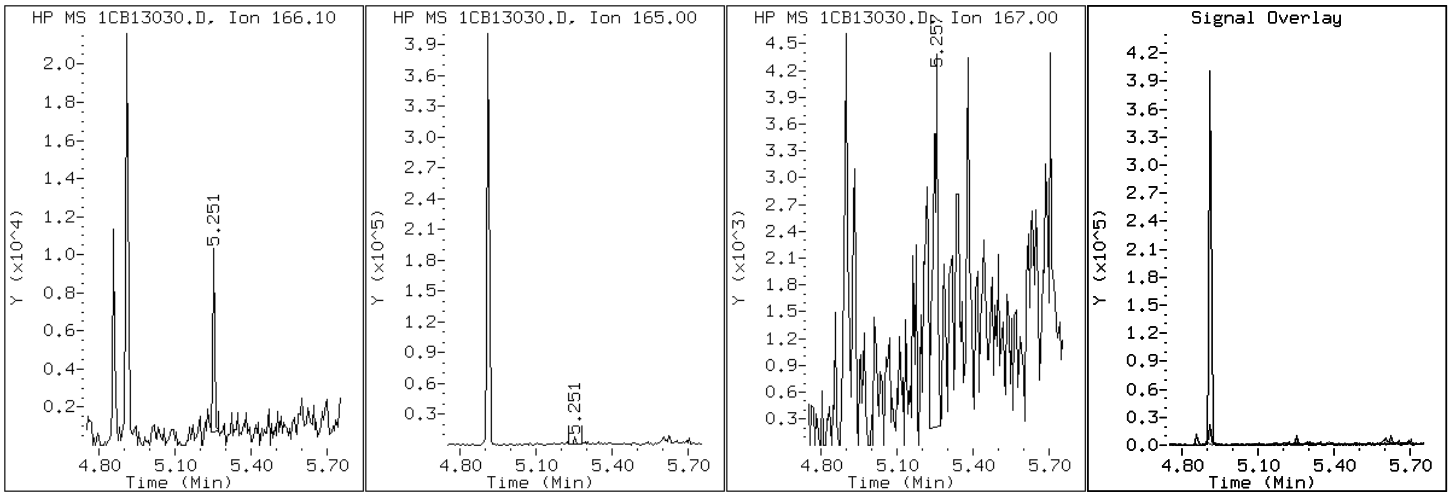
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

9 Fluorene



Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

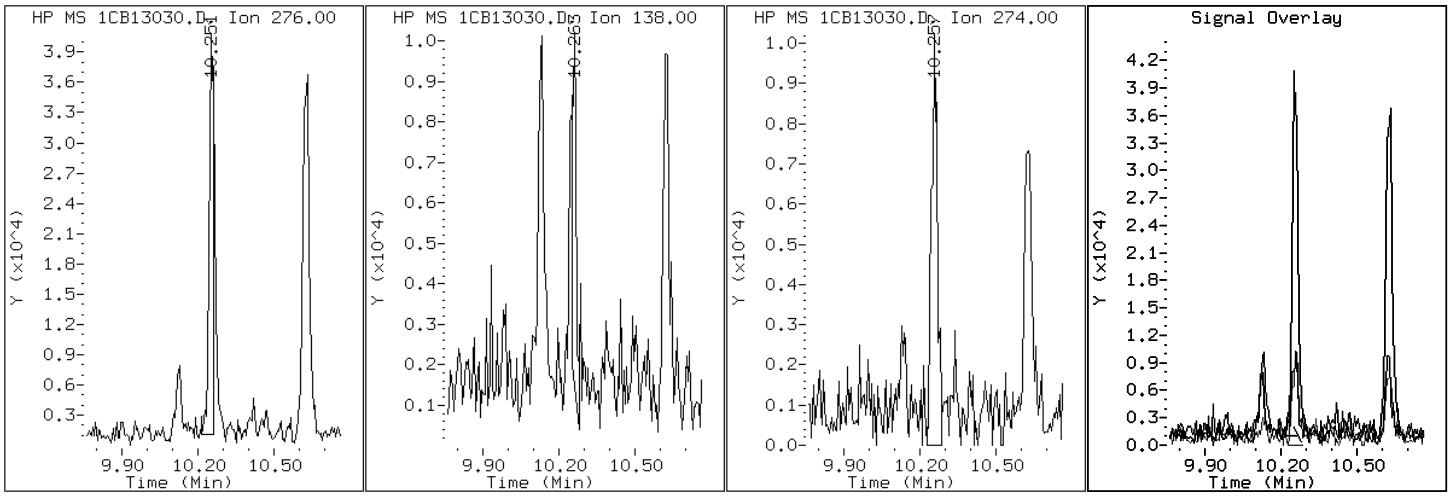
Client ID: HP0325A-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a

Operator: SCC

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



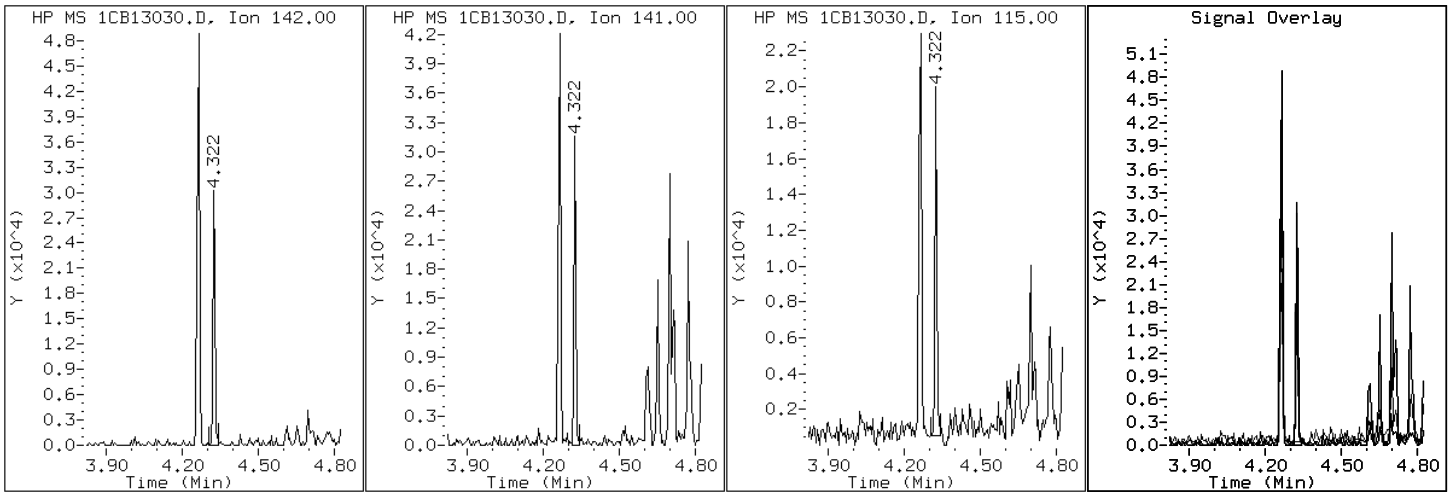
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

4 1-Methylnaphthalene



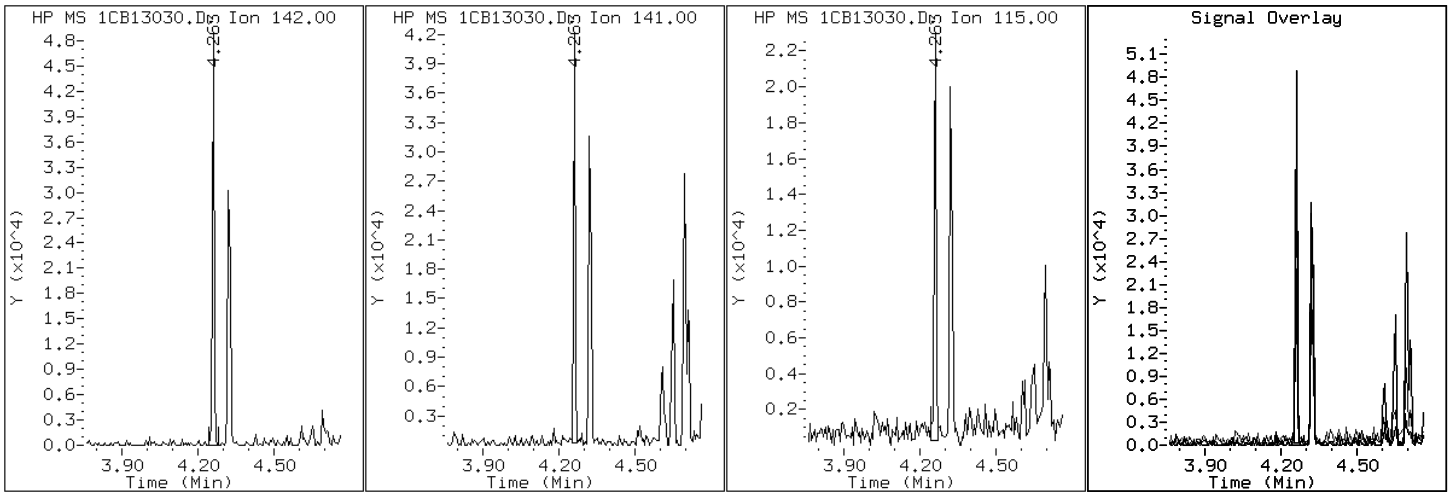
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

3 2-Methylnaphthalene



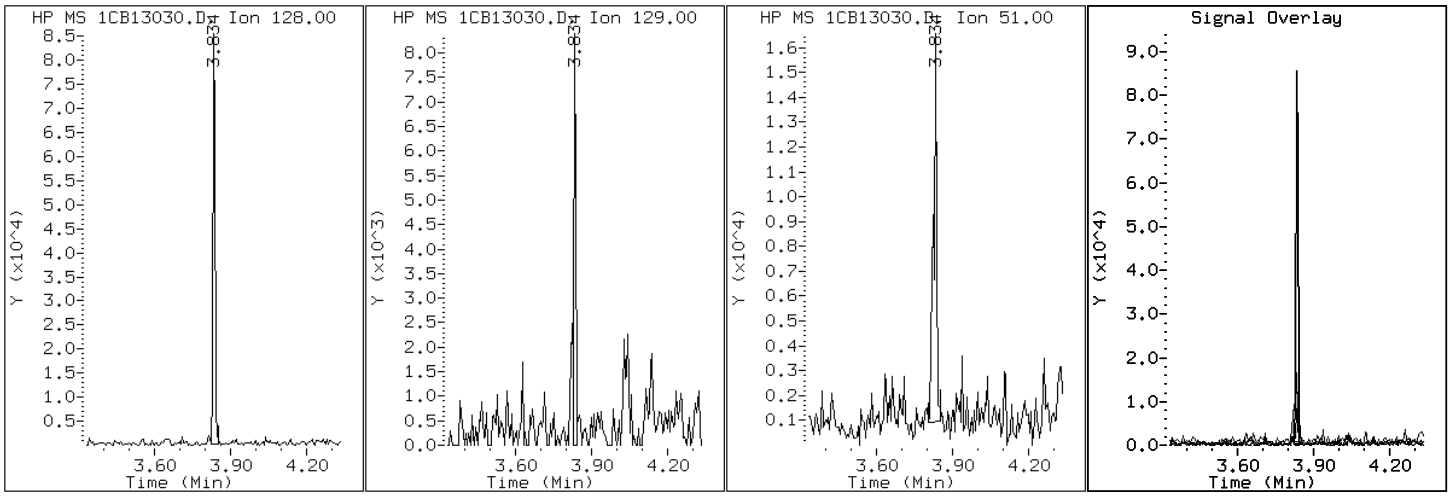
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

2 Naphthalene



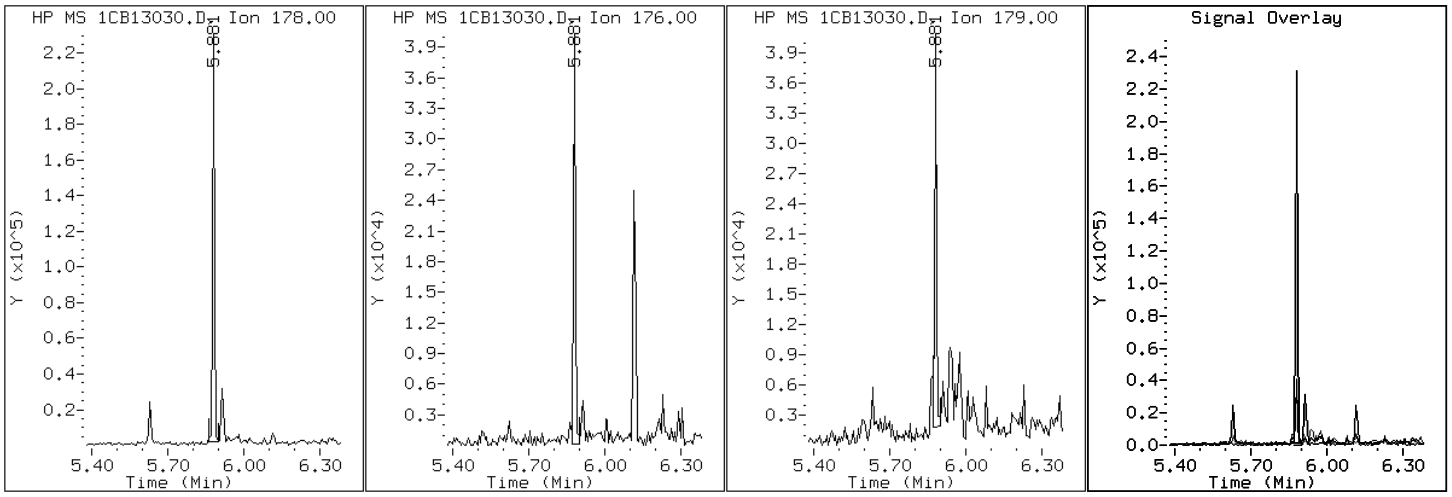
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

11 Phenanthrene



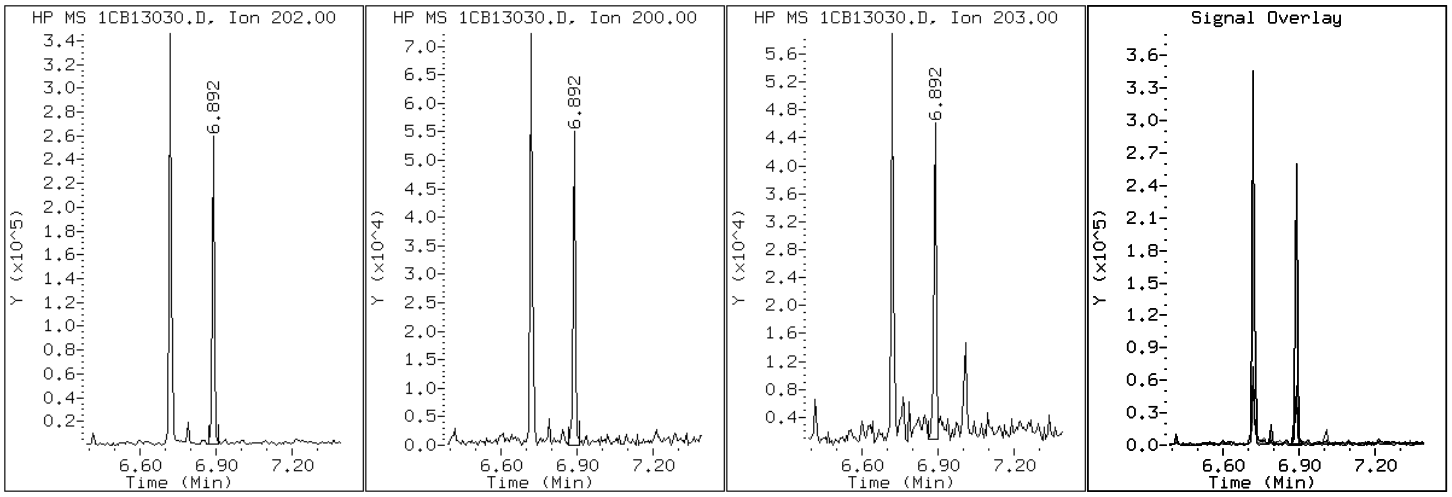
Data File: 1CB13030.D

Date: 13-FEB-2013 20:08

Client ID: HP0325A-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-6-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB13030.D
Inj. Date and Time: 13-FEB-2013 20:08
Instrument ID: BSMC5973.i
Client ID: HP0325A-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

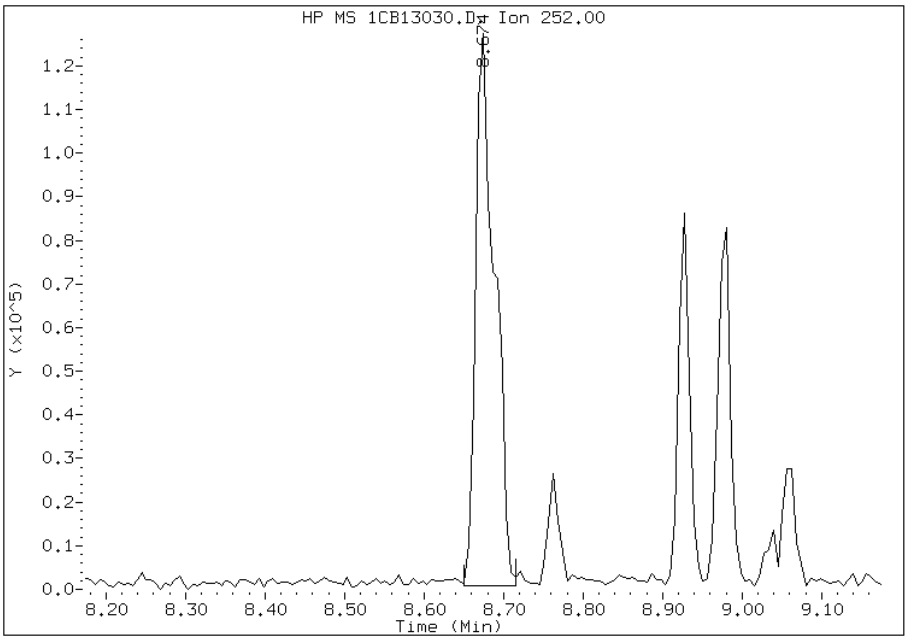
Processing Integration Results

RT: 8.67

Response: 209177

Amount: 3

Conc: 272



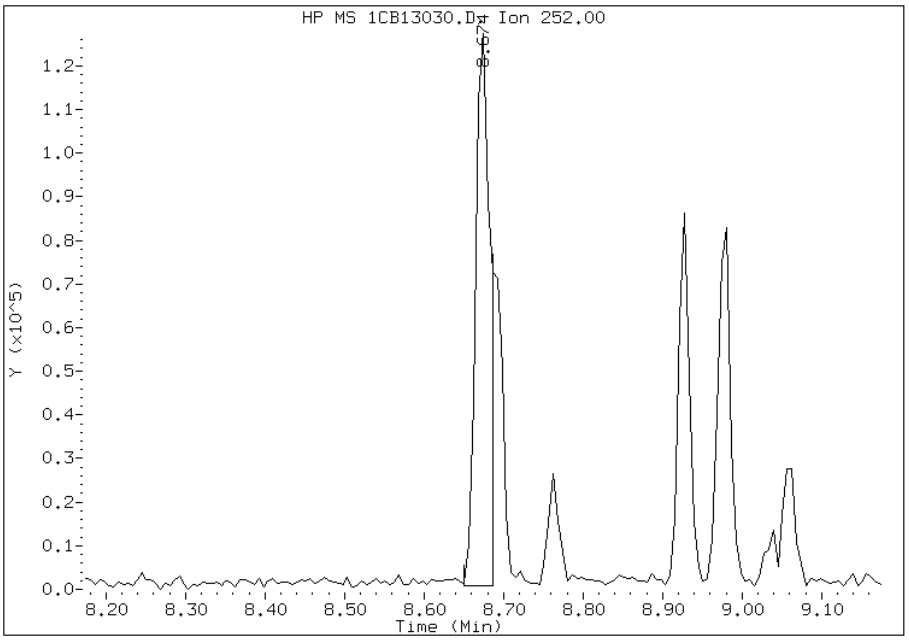
Manual Integration Results

RT: 8.67

Response: 158865

Amount: 2

Conc: 207



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

Manual Integration Report

Data File: 1CB13030.D
Inj. Date and Time: 13-FEB-2013 20:08
Instrument ID: BSMC5973.i
Client ID: HP0325A-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

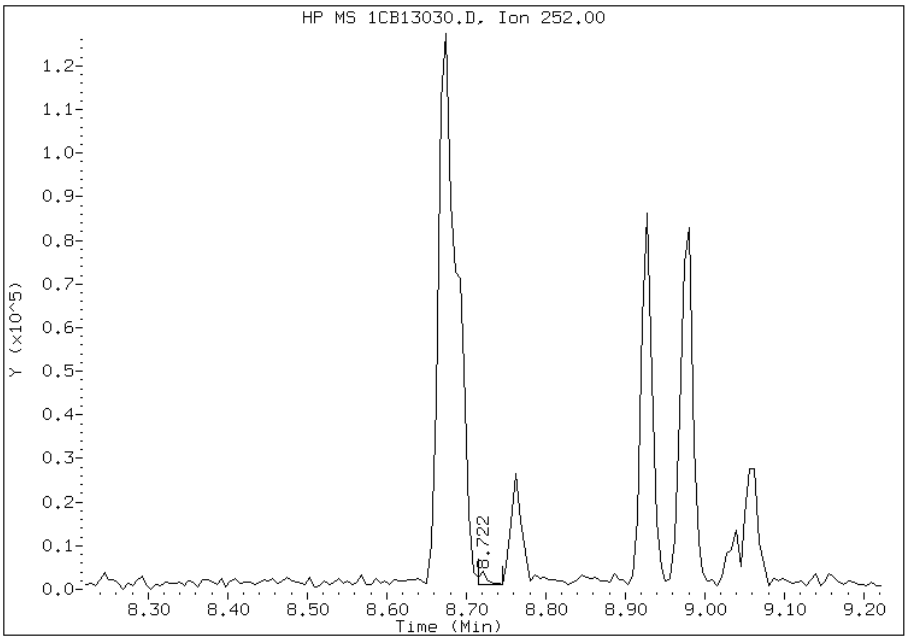
Processing Integration Results

RT: 8.72

Response: 2387

Amount: 0

Conc: 3



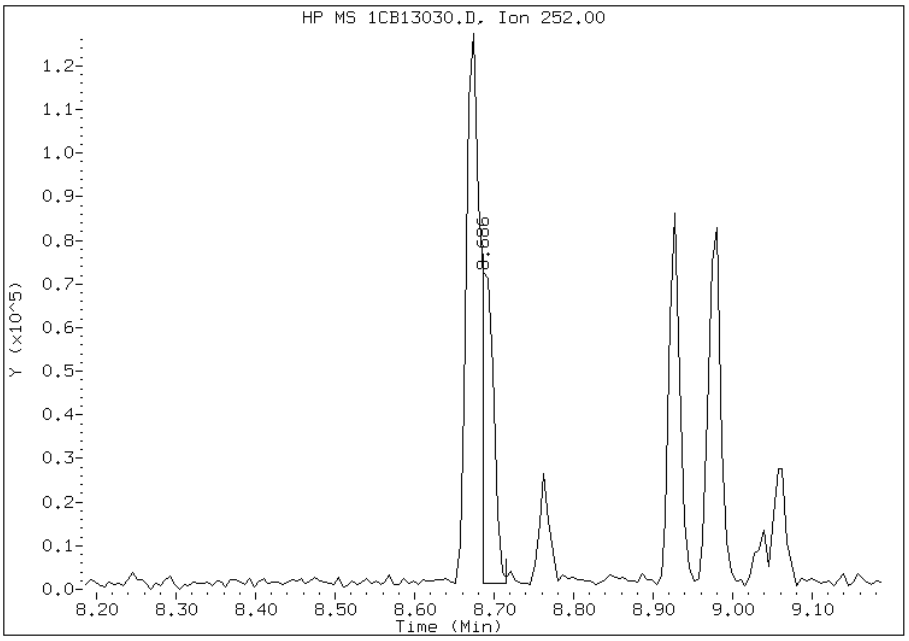
Manual Integration Results

RT: 8.69

Response: 74408

Amount: 1

Conc: 88



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

Manual Integration Report

Data File: 1CB13030.D
Inj. Date and Time: 13-FEB-2013 20:08
Instrument ID: BSMC5973.i
Client ID: HP0325A-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

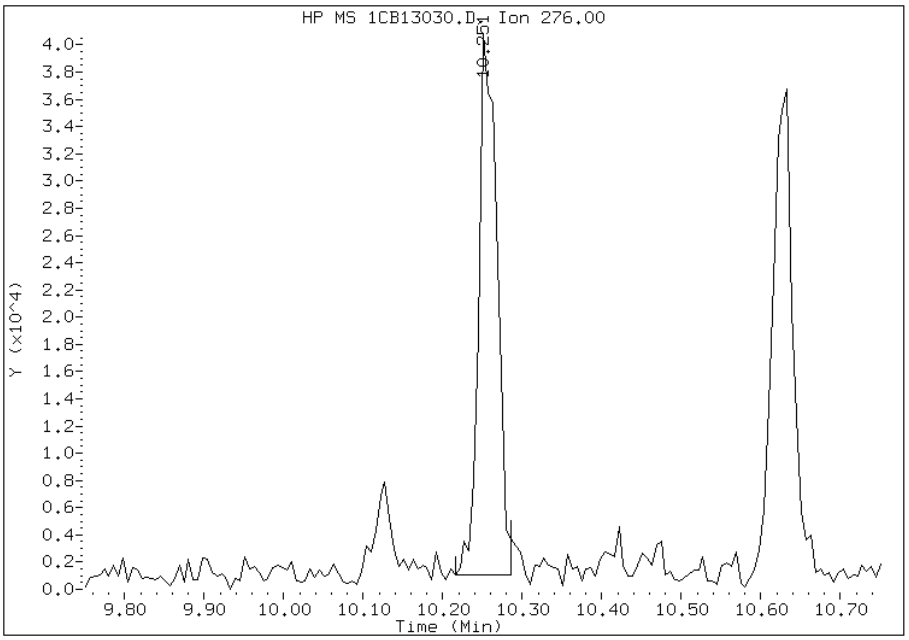
Processing Integration Results

RT: 10.25

Response: 63789

Amount: 1

Conc: 91



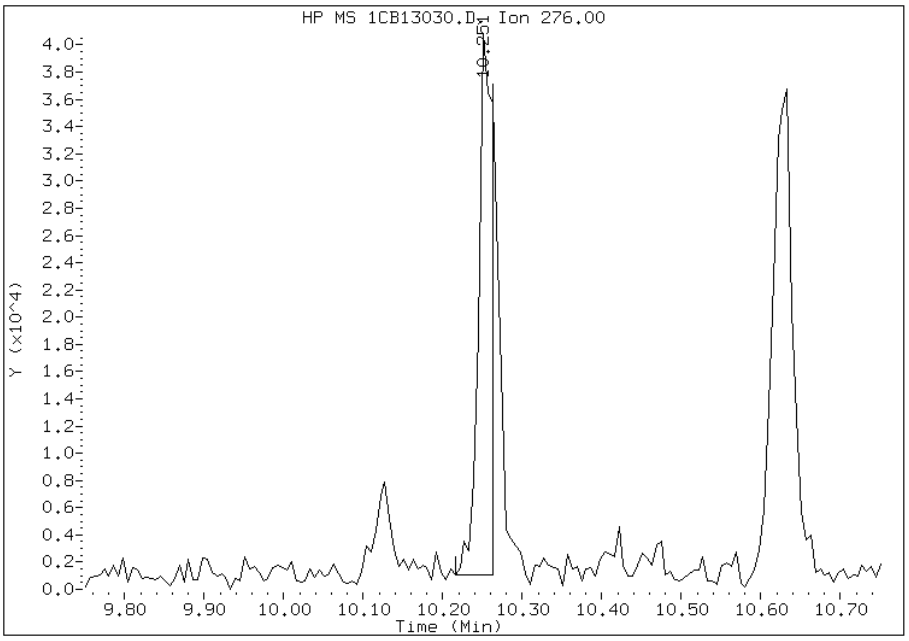
Manual Integration Results

RT: 10.25

Response: 49219

Amount: 1

Conc: 70



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: HP0325B-CS-SP | Lab Sample ID: 680-87218-7

Matrix: Solid | Lab File ID: 1CB13031.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:00

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.15(g) | Date Analyzed: 02/13/2013 20:27

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

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

% Moisture: 15.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	470	U	470	94
208-96-8	Acenaphthylene	97	J	190	23
120-12-7	Anthracene	58		39	20
56-55-3	Benzo[a]anthracene	520		38	18
50-32-8	Benzo[a]pyrene	540		49	24
205-99-2	Benzo[b]fluoranthene	810		57	29
191-24-2	Benzo[g,h,i]perylene	390		94	21
207-08-9	Benzo[k]fluoranthene	350		38	17
218-01-9	Chrysene	580		42	21
53-70-3	Dibenz(a,h)anthracene	110		94	19
206-44-0	Fluoranthene	690		94	19
86-73-7	Fluorene	32	J	94	19
193-39-5	Indeno[1,2,3-cd]pyrene	330		94	33
90-12-0	1-Methylnaphthalene	180	J	190	21
91-57-6	2-Methylnaphthalene	200		190	33
91-20-3	Naphthalene	270		190	21
85-01-8	Phenanthrene	380	B	38	18
129-00-0	Pyrene	610		94	17

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	115		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13031.D
Lab Smp Id: 680-87218-A-7-A Client Smp ID: HP0325B-CS-SP
Inj Date : 13-FEB-2013 20:27
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-7-a
Misc Info : 680-87218-A-7-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 31
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.150	Weight Extracted
M	15.607	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.822	3.821	(1.000)	2079320	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1561105	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	2878477	40.0000	
$ 14 o-Terphenyl	230	6.116	6.115	(1.043)	121623	2.88368	902.1697
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	2893509	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	2667840	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	47008	0.85315	266.9110
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	23397	0.65306	204.3110
4 1-Methylnaphthalene	142	4.322	4.321	(1.131)	19242	0.59053	184.7506
5 Acenaphthylene	152	4.821	4.821	(0.982)	19222	0.30950	96.8269
9 Fluorene	166	5.251	5.251	(1.069)	5044	0.10088	31.5593(Q)
11 Phenanthrene	178	5.880	5.880	(1.003)	103069	1.19958	375.2938
12 Anthracene	178	5.916	5.915	(1.009)	14442	0.18656	58.3661
13 Carbazole	167	6.021	6.021	(1.027)	12412	0.18459	57.7491

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	186094	2.21656	693.4568
16 Pyrene	202	6.892	6.892	(0.882)	151350	1.96476	614.6818
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	132364	1.65885	518.9773
19 Chrysene	228	7.833	7.833	(1.002)	153622	1.86386	583.1146
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	168795	2.58070	807.3795(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.961)	80389	1.11564	349.0308(M)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	106912	1.71779	537.4155
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.135)	62749	1.04969	328.3997(M)
25 Dibenzo(a,h)anthracene	278	10.268	10.280	(1.136)	20485	0.36339	113.6873
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	76630	1.26196	394.8085

QC Flag Legend

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

Data File: 1CB13031.D

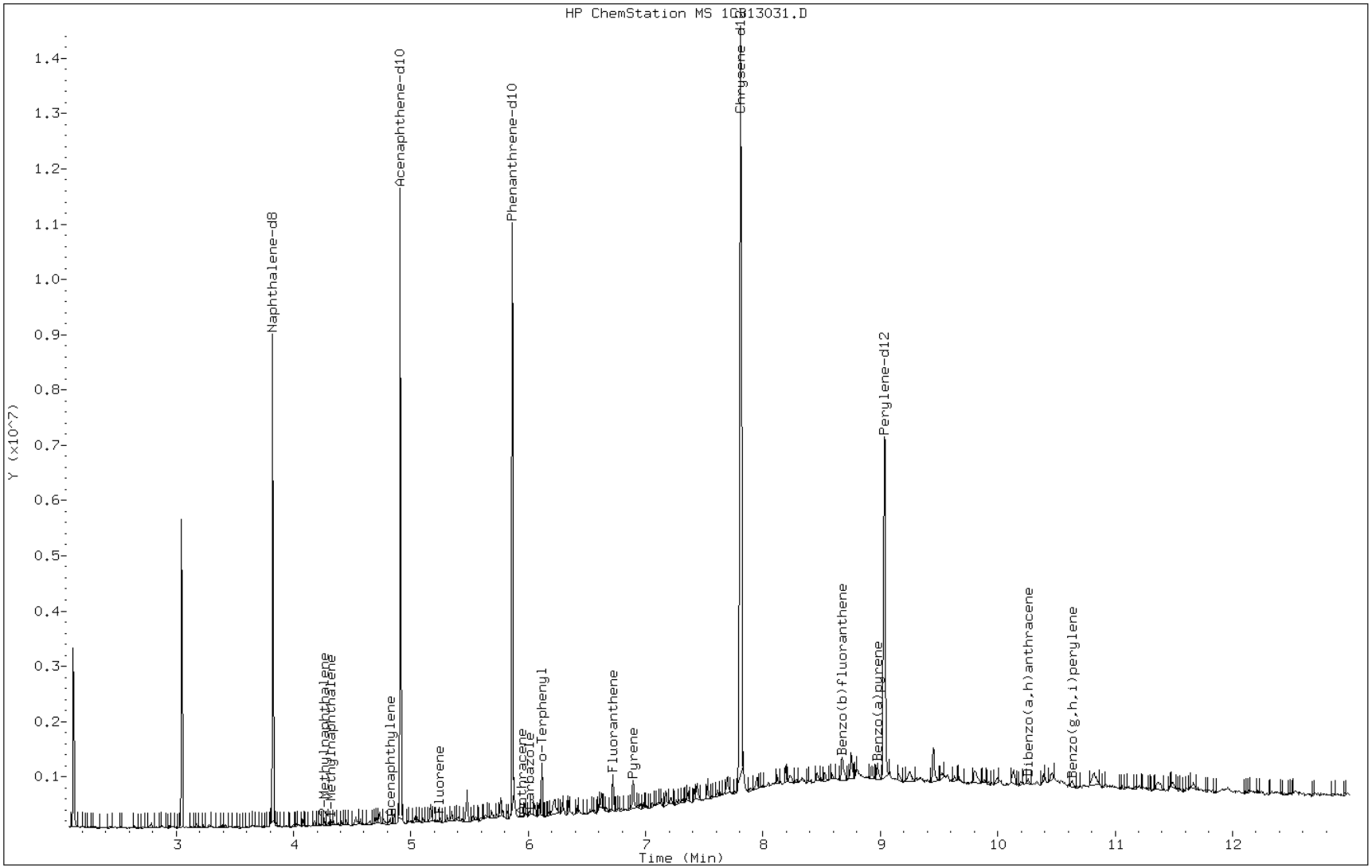
Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a

Operator: SCC



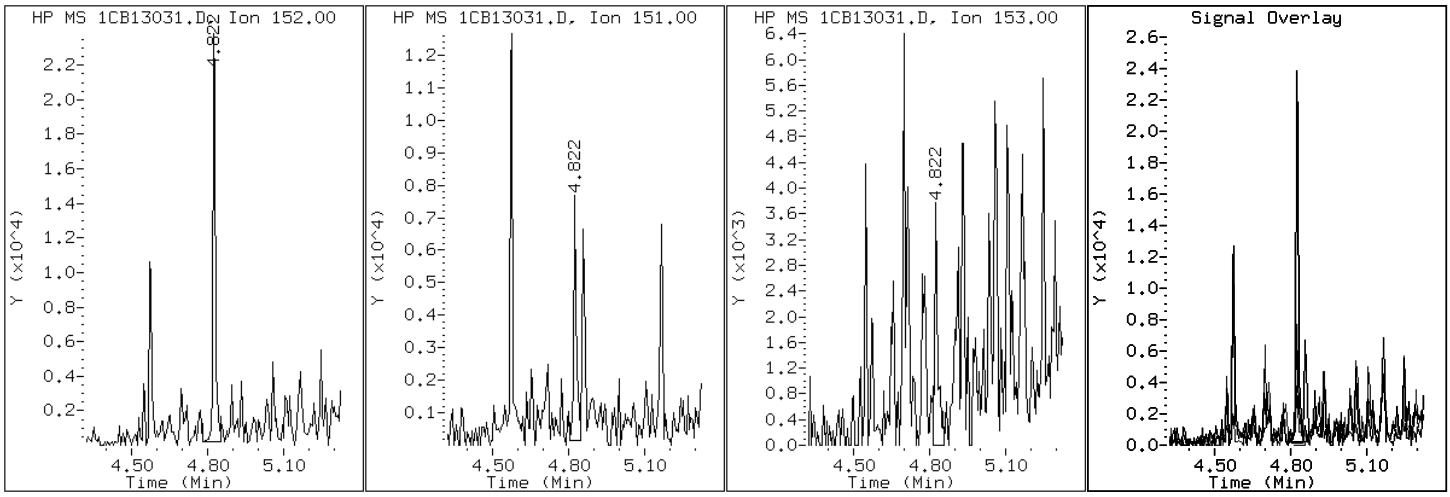
Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a Operator: SCC

5 Acenaphthylene



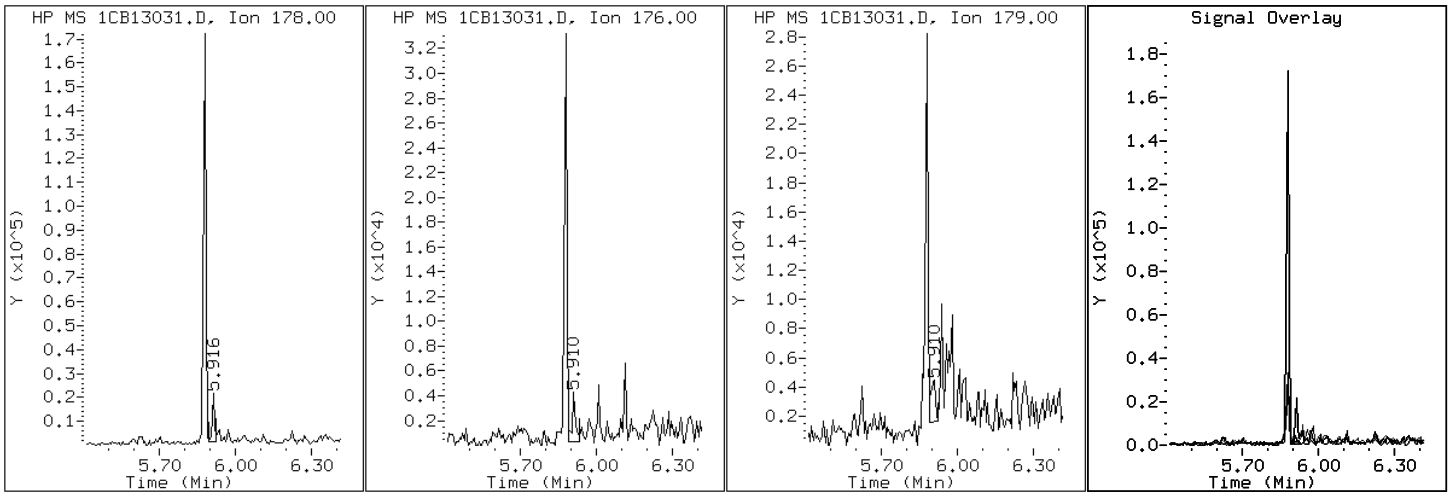
Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a Operator: SCC

12 Anthracene



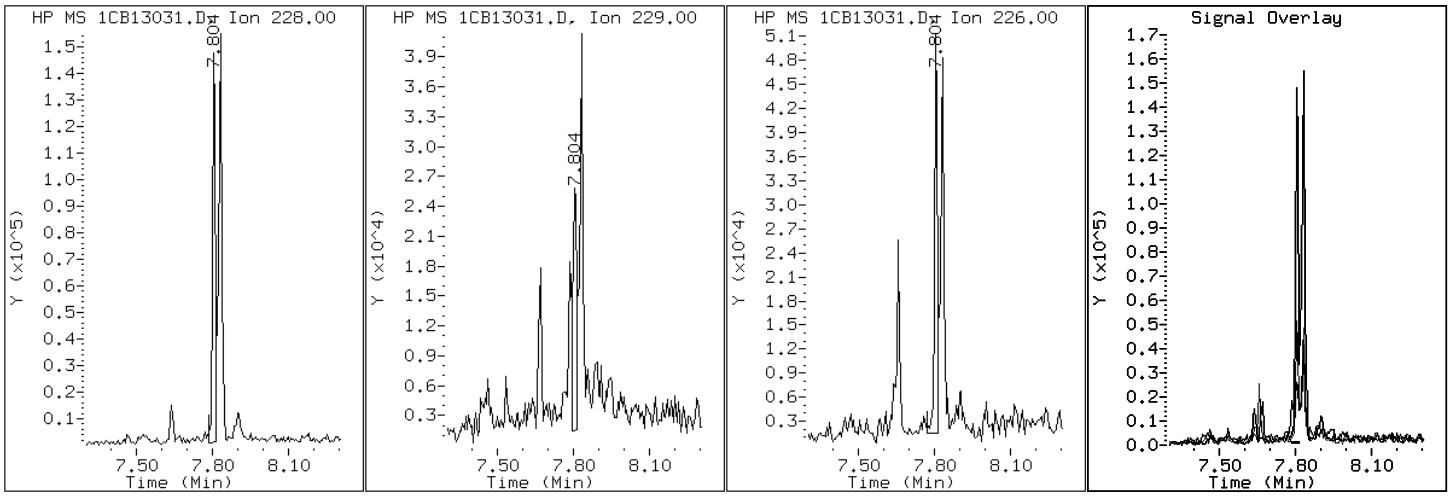
Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a Operator: SCC

17 Benzo(a)anthracene



Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

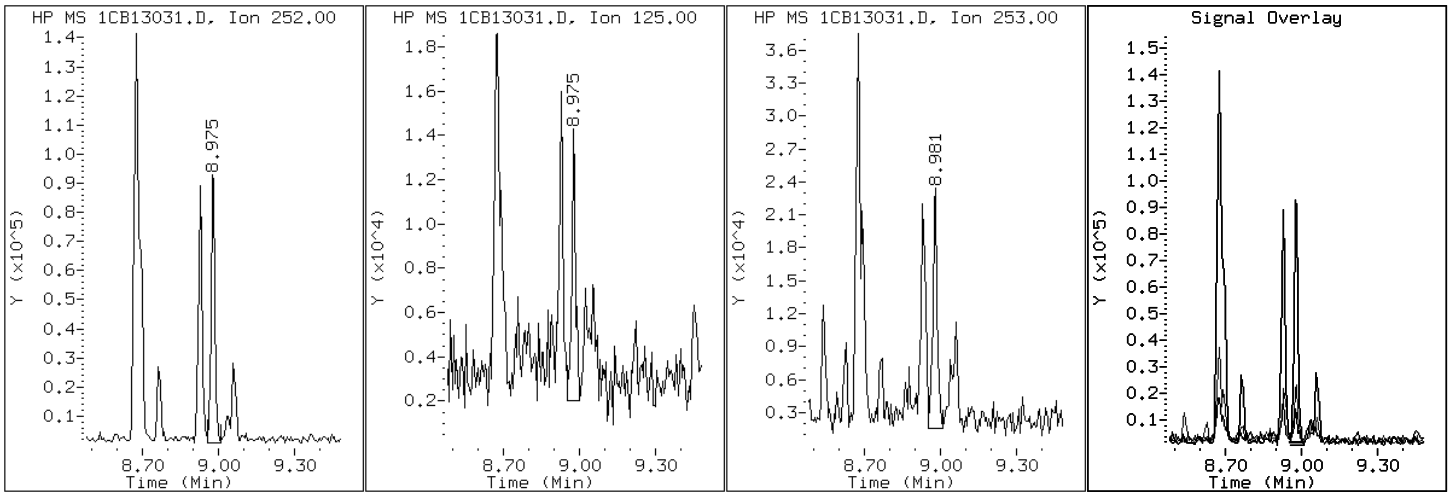
Client ID: HP0325B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a

Operator: SCC

22 Benzo(a)pyrene



Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

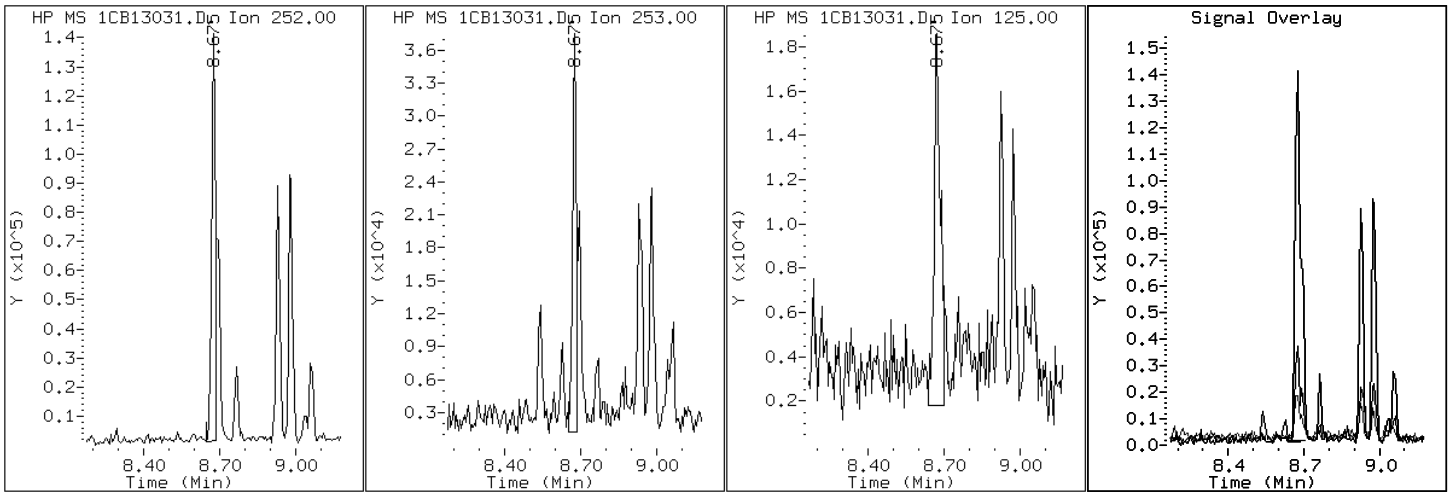
Client ID: HP0325B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a

Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

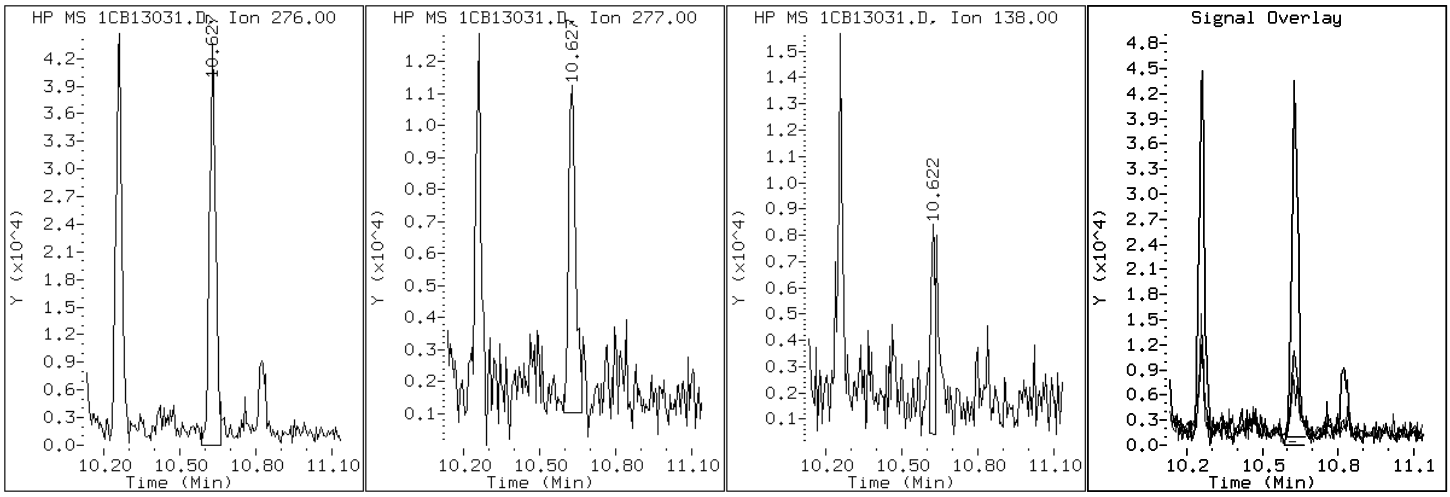
Client ID: HP0325B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a

Operator: SCC

26 Benzo(g,h,i)perylene



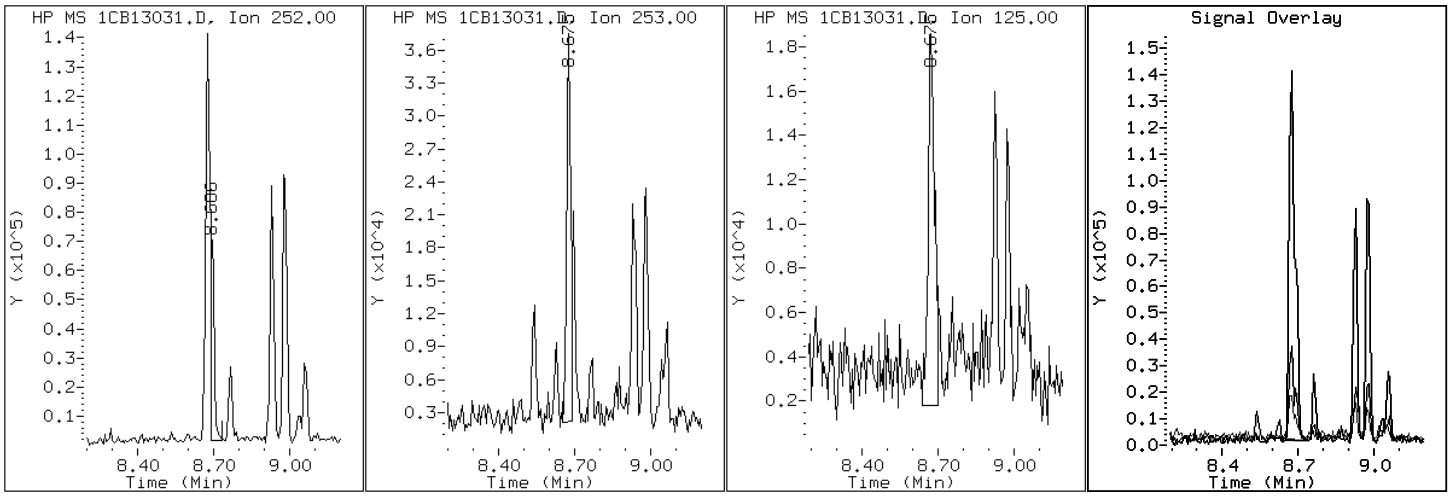
Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a Operator: SCC

21 Benzo(k)fluoranthene



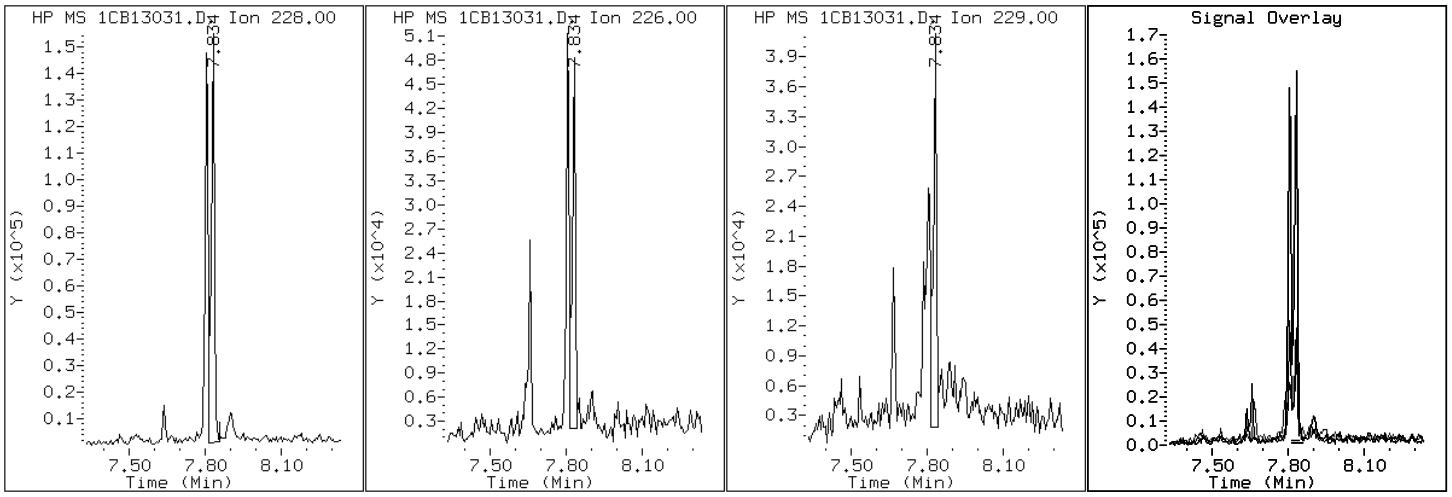
Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a Operator: SCC

19 Chrysene



Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

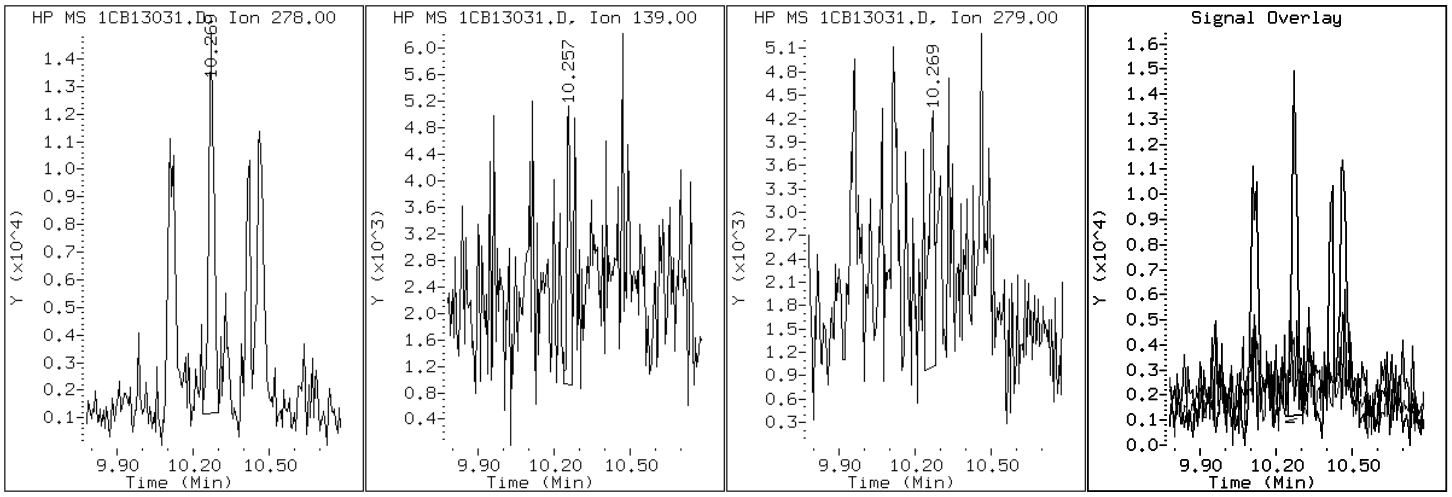
Client ID: HP0325B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a

Operator: SCC

25 Dibenzo(a,h)anthracene



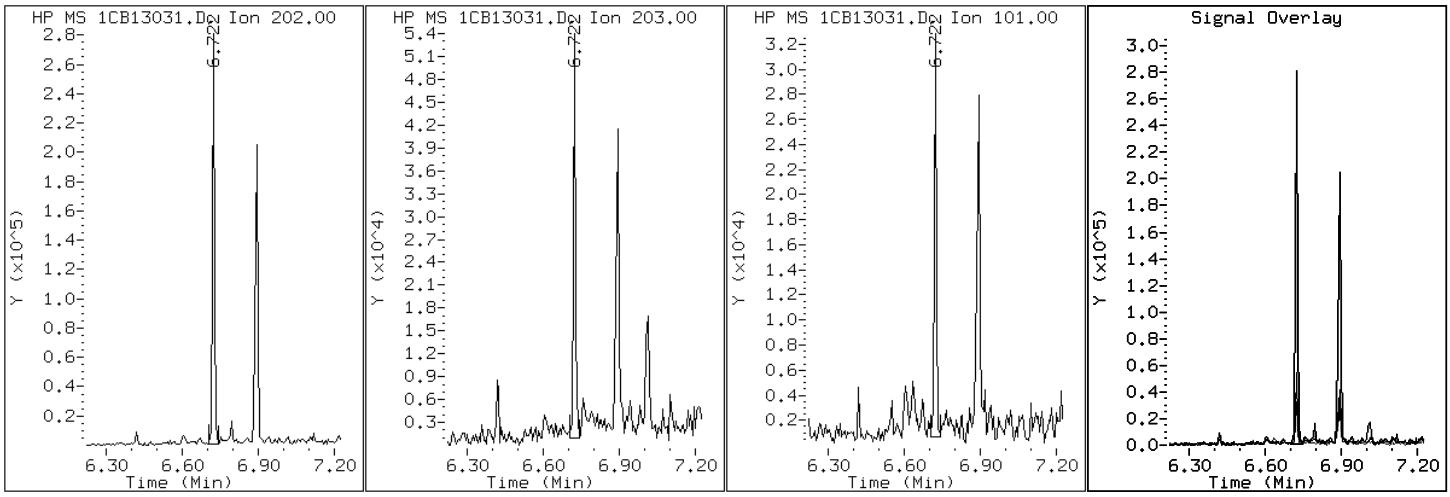
Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a Operator: SCC

15 Fluoranthene



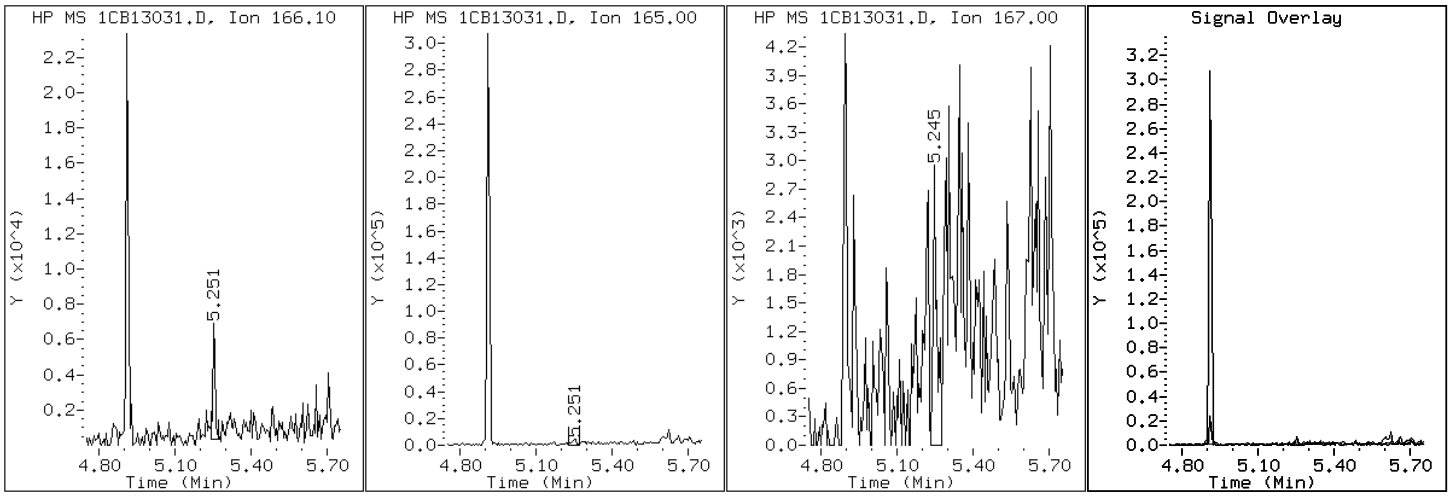
Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a Operator: SCC

9 Fluorene



Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

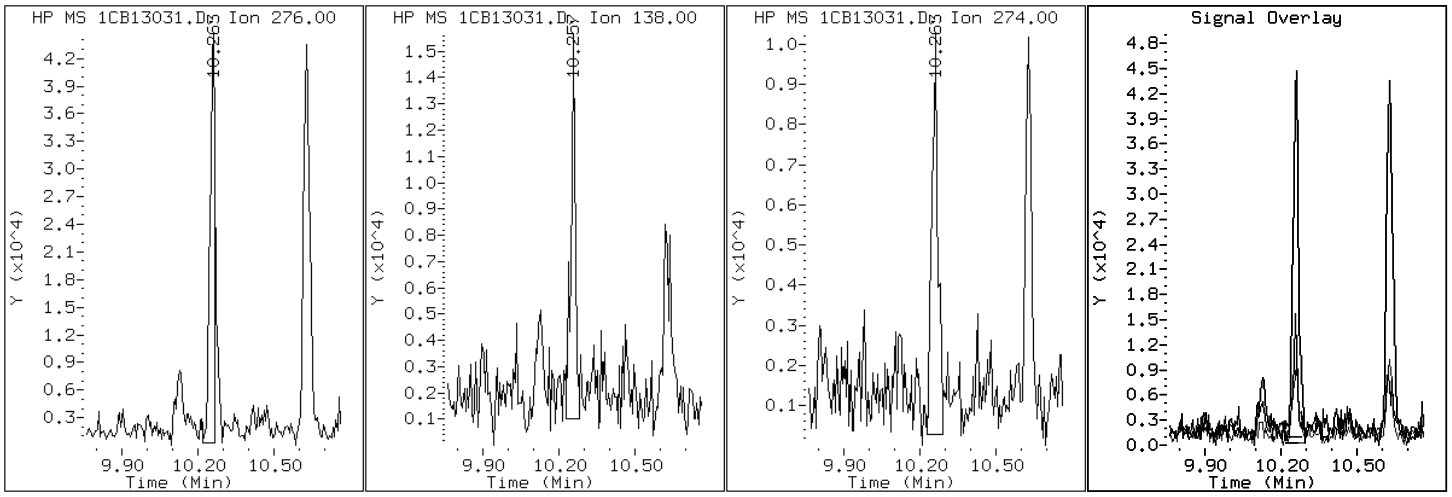
Client ID: HP0325B-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a

Operator: SCC

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



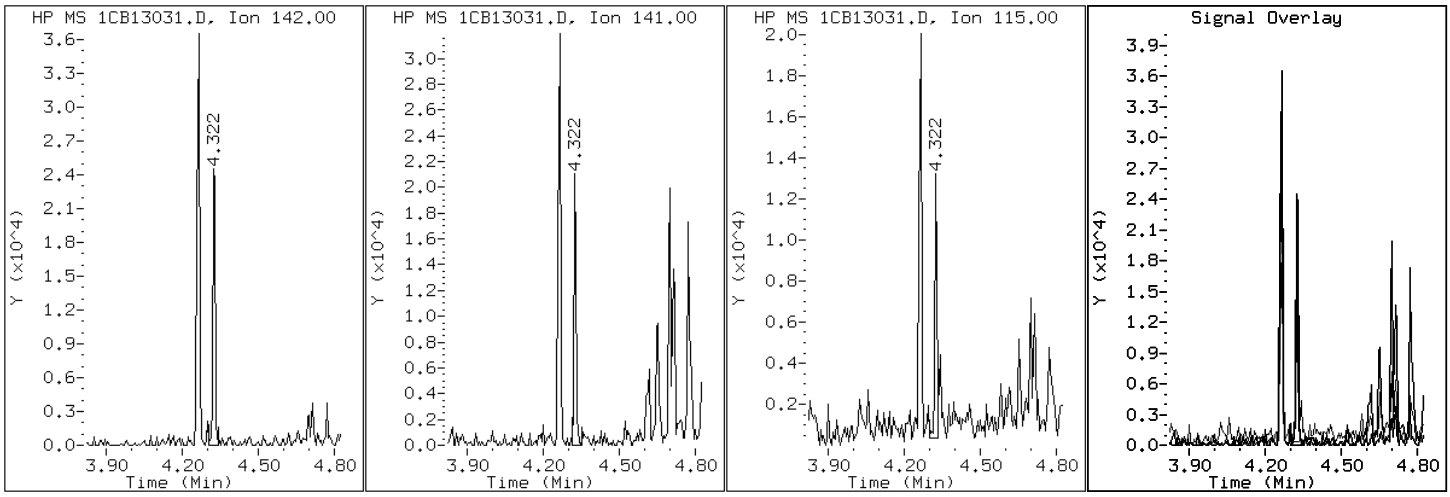
Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a Operator: SCC

4 1-Methylnaphthalene



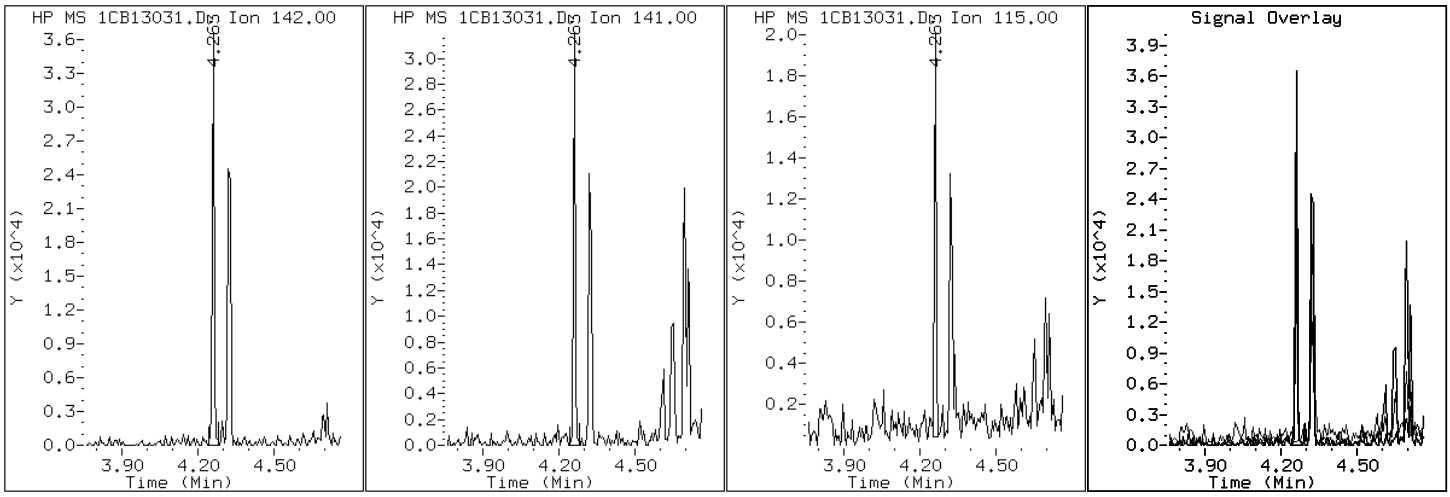
Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a Operator: SCC

3 2-Methylnaphthalene



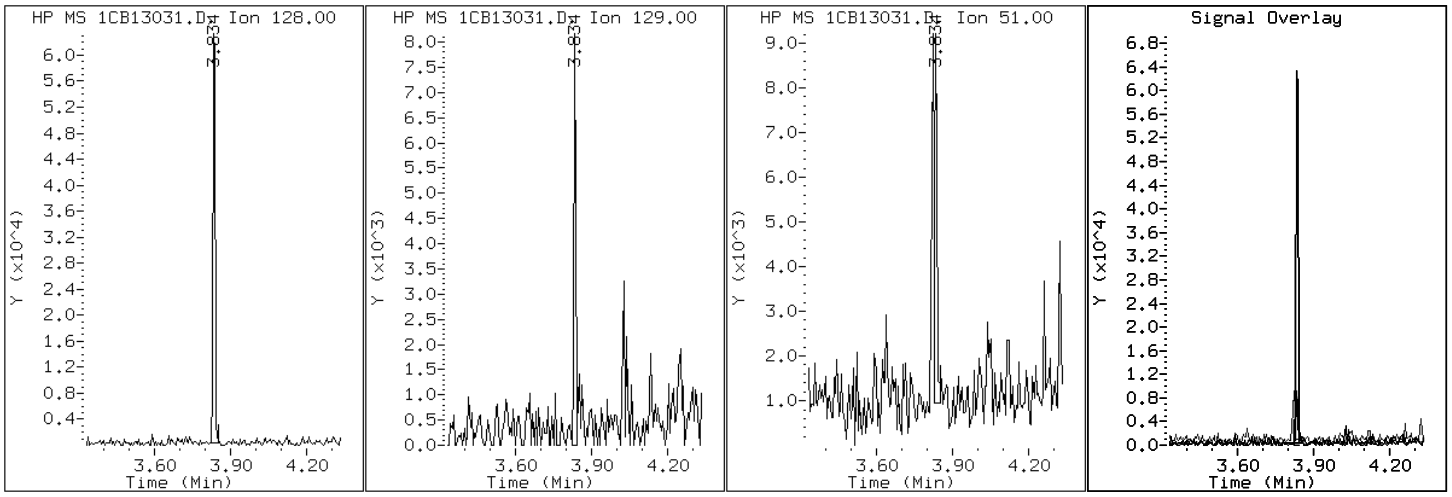
Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a Operator: SCC

2 Naphthalene



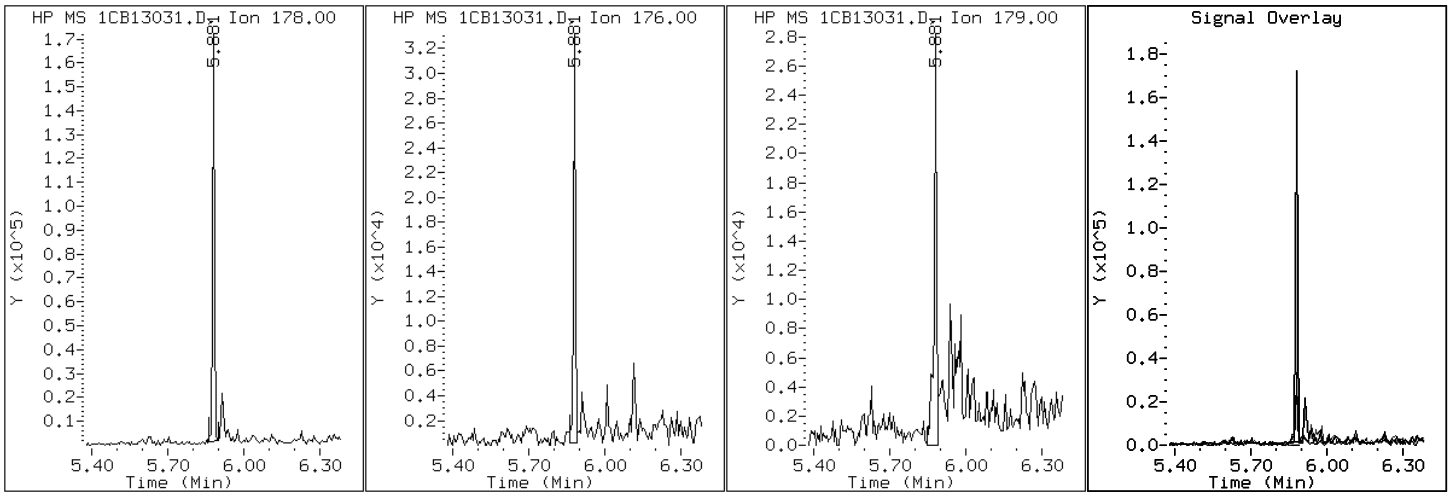
Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a Operator: SCC

11 Phenanthrene



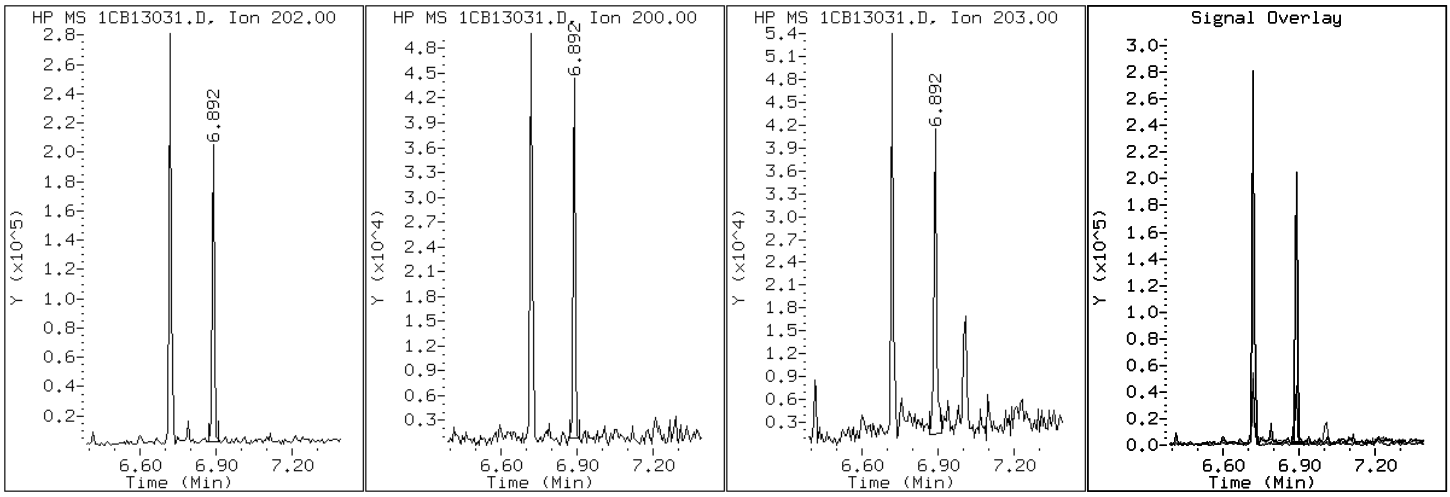
Data File: 1CB13031.D

Date: 13-FEB-2013 20:27

Client ID: HP0325B-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-7-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB13031.D
Inj. Date and Time: 13-FEB-2013 20:27
Instrument ID: BSMC5973.i
Client ID: HP0325B-CS-SP
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

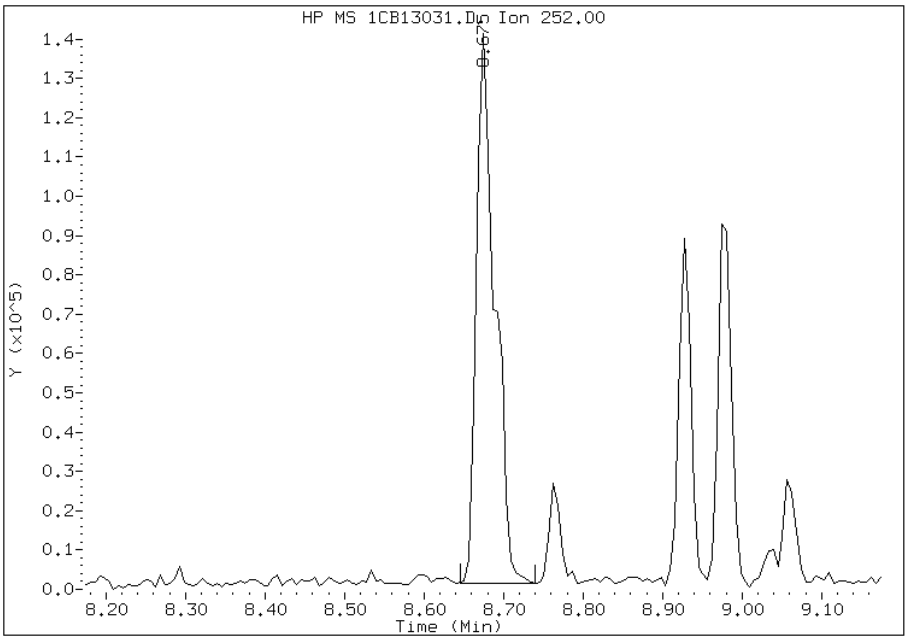
Processing Integration Results

RT: 8.67

Response: 224698

Amount: 3

Conc: 1075



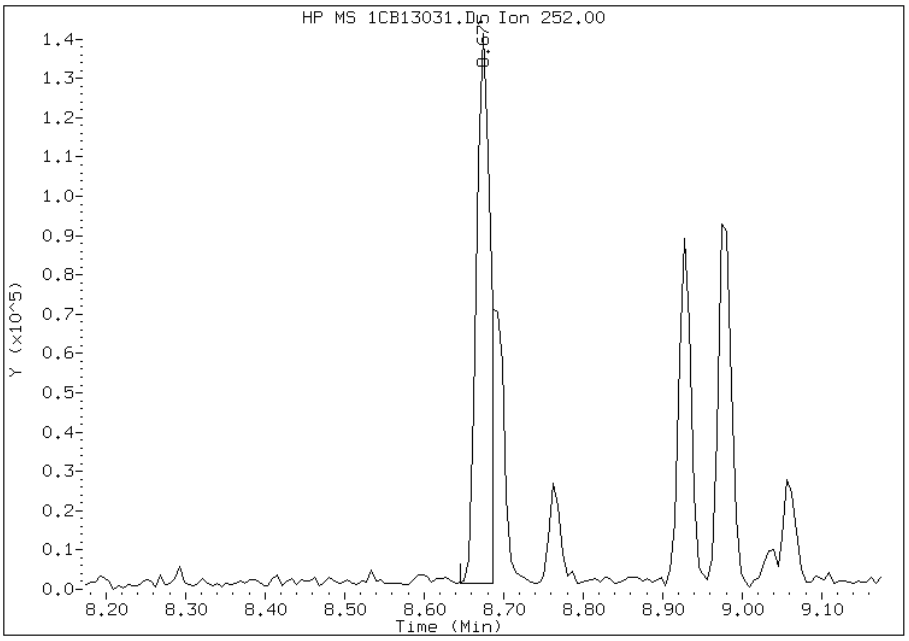
Manual Integration Results

RT: 8.67

Response: 168795

Amount: 3

Conc: 807



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

Manual Integration Report

Data File: 1CB13031.D
Inj. Date and Time: 13-FEB-2013 20:27
Instrument ID: BSMC5973.i
Client ID: HP0325B-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

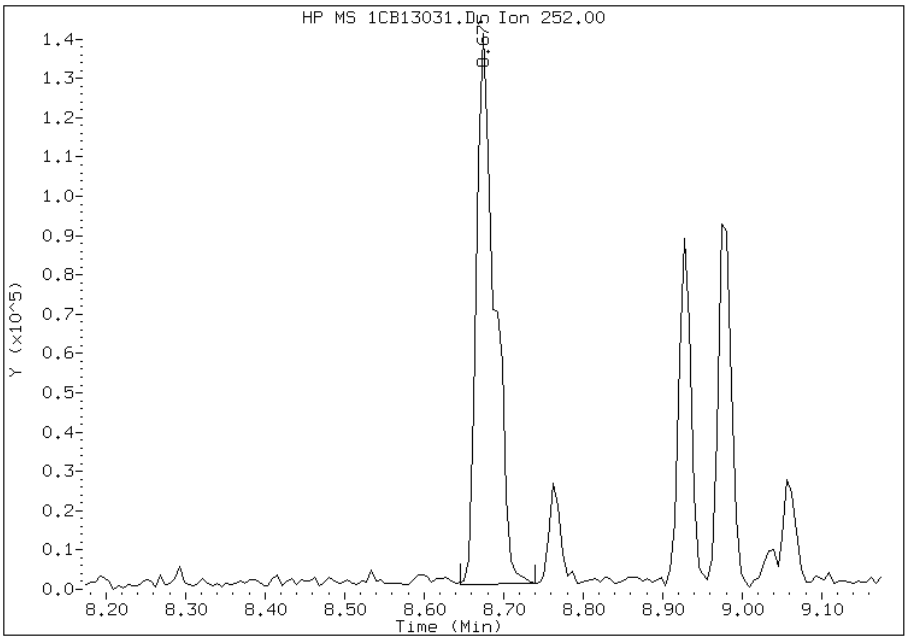
Processing Integration Results

RT: 8.67

Response: 225385

Amount: 3

Conc: 979



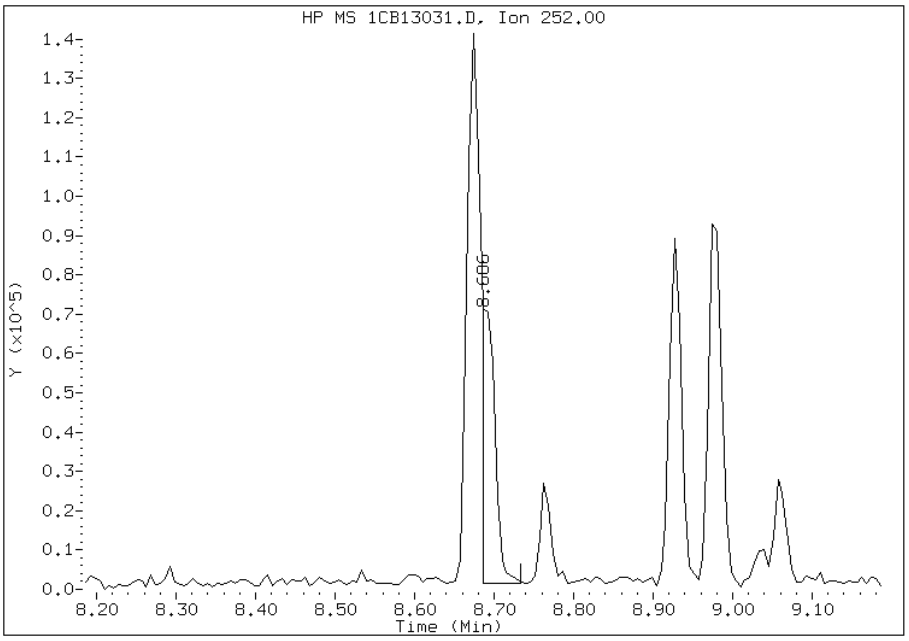
Manual Integration Results

RT: 8.69

Response: 80389

Amount: 1

Conc: 349



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

Manual Integration Report

Data File: 1CB13031.D
Inj. Date and Time: 13-FEB-2013 20:27
Instrument ID: BSMC5973.i
Client ID: HP0325B-CS-SP
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

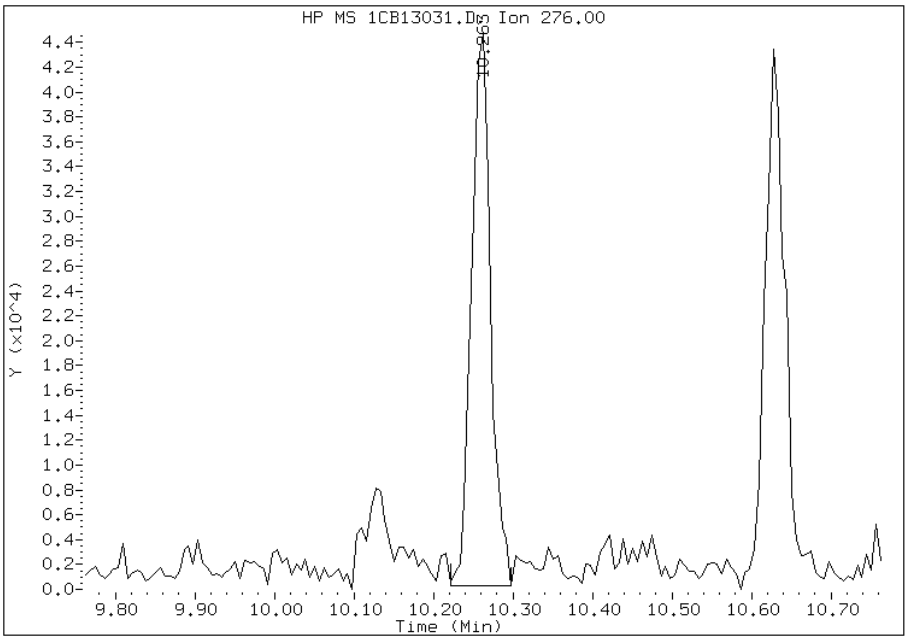
Processing Integration Results

RT: 10.26

Response: 73922

Amount: 1

Conc: 387



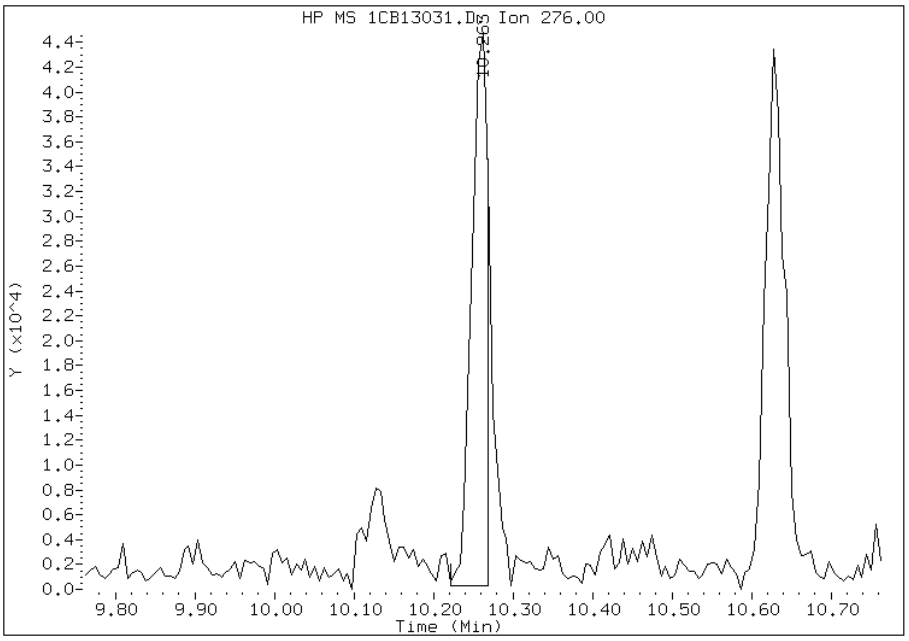
Manual Integration Results

RT: 10.26

Response: 62749

Amount: 1

Conc: 328



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0966C-CS-SP | Lab Sample ID: 680-87218-8

Matrix: Solid | Lab File ID: 1CB13032.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:40

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 14.97(g) | Date Analyzed: 02/13/2013 20:45

Con. Extract Vol.: 10(mL) | Dilution Factor: 4

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

% Moisture: 22.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	5200	U	5200	1000
208-96-8	Acenaphthylene	2100	U	2100	260
120-12-7	Anthracene	430	U	430	220
56-55-3	Benzo[a]anthracene	870		410	200
50-32-8	Benzo[a]pyrene	620		540	270
205-99-2	Benzo[b]fluoranthene	850		630	320
191-24-2	Benzo[g,h,i]perylene	510	J	1000	230
207-08-9	Benzo[k]fluoranthene	370	J	410	190
218-01-9	Chrysene	630		460	230
53-70-3	Dibenz(a,h)anthracene	1000	U	1000	210
206-44-0	Fluoranthene	1200		1000	210
86-73-7	Fluorene	1000	U	1000	210
193-39-5	Indeno[1,2,3-cd]pyrene	1000	U	1000	370
90-12-0	1-Methylnaphthalene	2100	U	2100	230
91-57-6	2-Methylnaphthalene	2100	U	2100	370
91-20-3	Naphthalene	2100	U	2100	230
85-01-8	Phenanthrene	610	B	410	200
129-00-0	Pyrene	1000		1000	190

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	108		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13032.D
Lab Smp Id: 680-87218-A-8-A Client Smp ID: CV0966C-CS-SP
Inj Date : 13-FEB-2013 20:45
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-8-a
Misc Info : 680-87218-A-8-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 32
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	10.000	Final Volume
Ws	14.970	Weight Extracted
M	22.404	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2238165	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1732951	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3114243	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	12302	0.26960	928.3651
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3186259	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	2952511	40.0000	
11 Phenanthrene	178	5.880	5.880	(1.003)	16582	0.17838	614.2580
15 Fluoranthene	202	6.721	6.721	(1.146)	31886	0.35104	1208.8090
16 Pyrene	202	6.892	6.892	(0.882)	25396	0.29939	1030.9493
17 Benzo(a)anthracene	228	7.809	7.804	(0.999)	22326	0.25409	874.9706
19 Chrysene	228	7.833	7.833	(1.002)	16586	0.18274	629.2833
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	17887	0.24711	850.9111
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.961)	8545	0.10715	368.9842(QM)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	12303	0.17862	615.0683

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	9973	0.14840	511.0249(M)

QC Flag Legend

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

Data File: 1CB13032.D

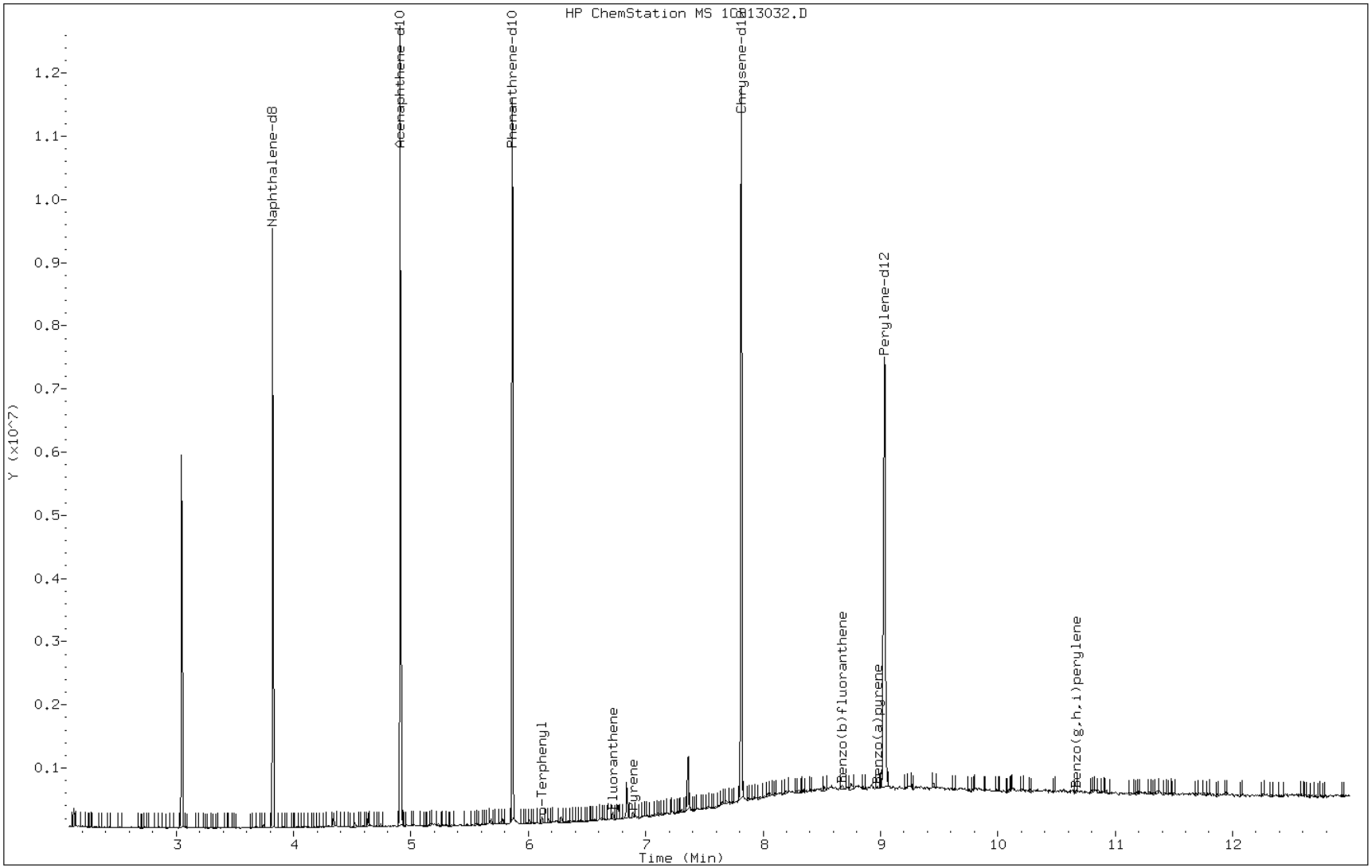
Date: 13-FEB-2013 20:45

Client ID: CV0966C-CS-SP

Instrument: BSMC5973.i

Sample Info: 680-87218-a-8-a

Operator: SCC



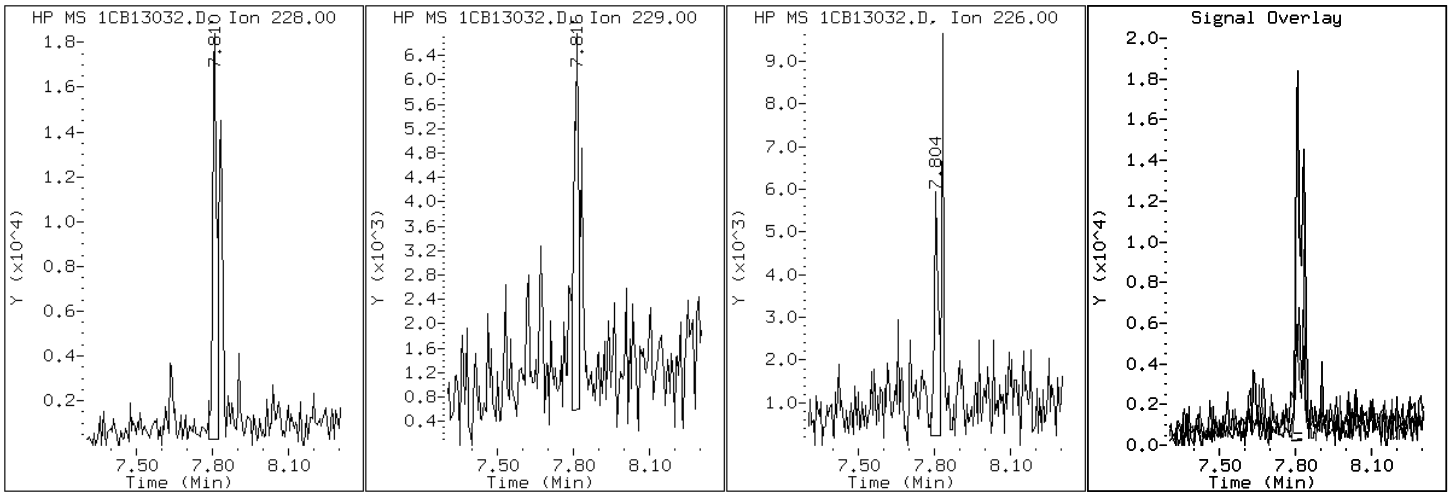
Data File: 1CB13032.D

Date: 13-FEB-2013 20:45

Client ID: CV0966C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-8-a Operator: SCC

17 Benzo(a)anthracene



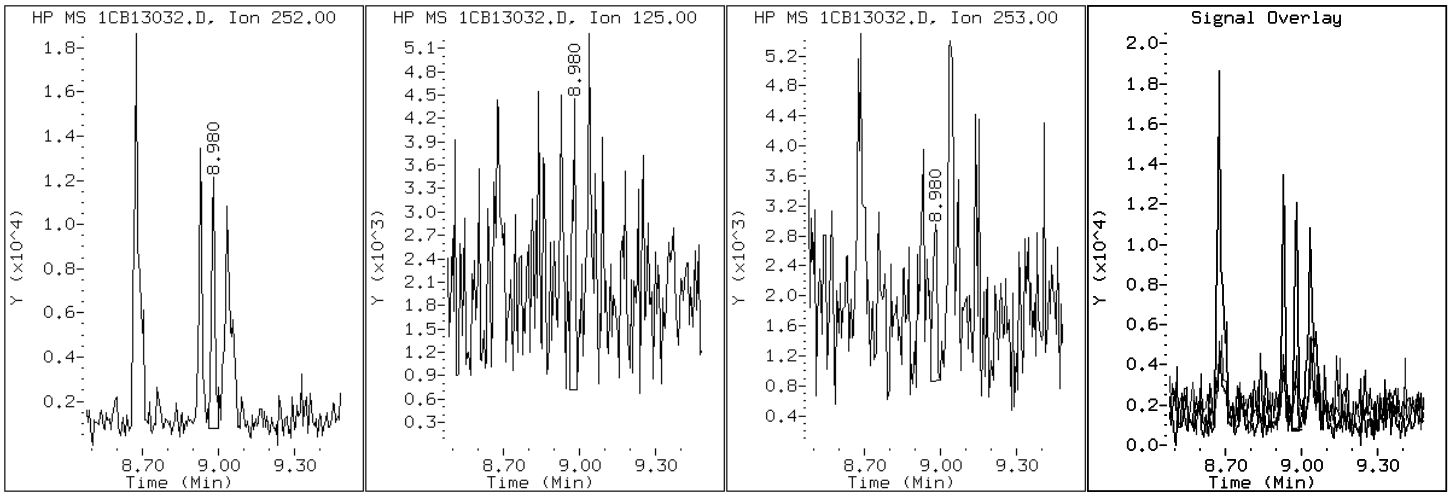
Data File: 1CB13032.D

Date: 13-FEB-2013 20:45

Client ID: CV0966C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-8-a Operator: SCC

22 Benzo(a)pyrene



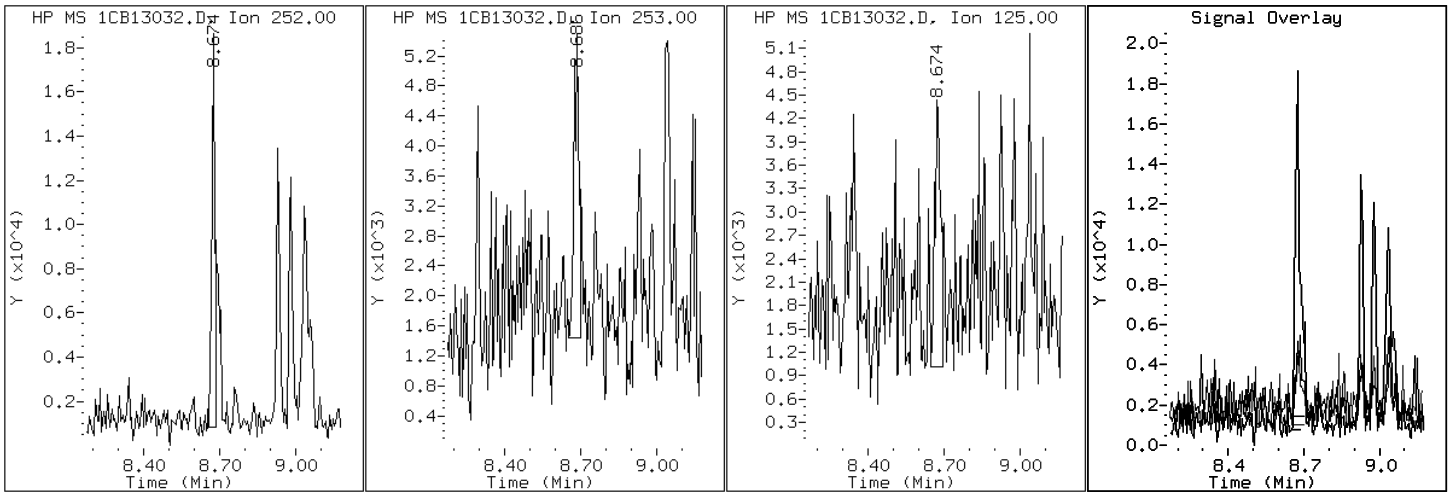
Data File: 1CB13032.D

Date: 13-FEB-2013 20:45

Client ID: CV0966C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-8-a Operator: SCC

20 Benzo(b)fluoranthene



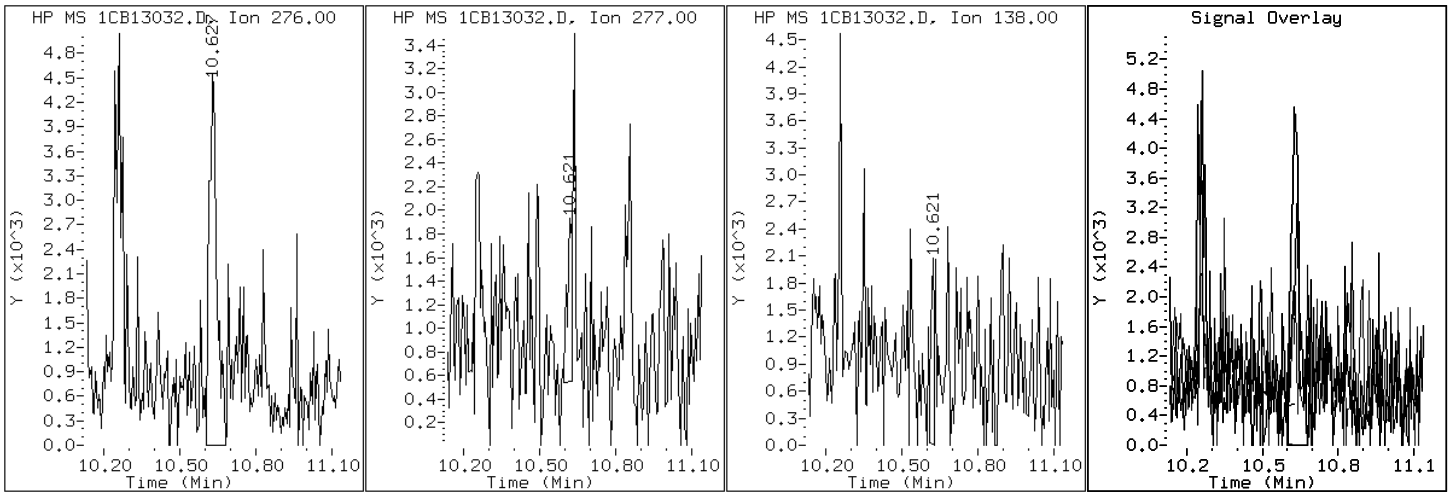
Data File: 1CB13032.D

Date: 13-FEB-2013 20:45

Client ID: CV0966C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-8-a Operator: SCC

26 Benzo(g,h,i)perylene



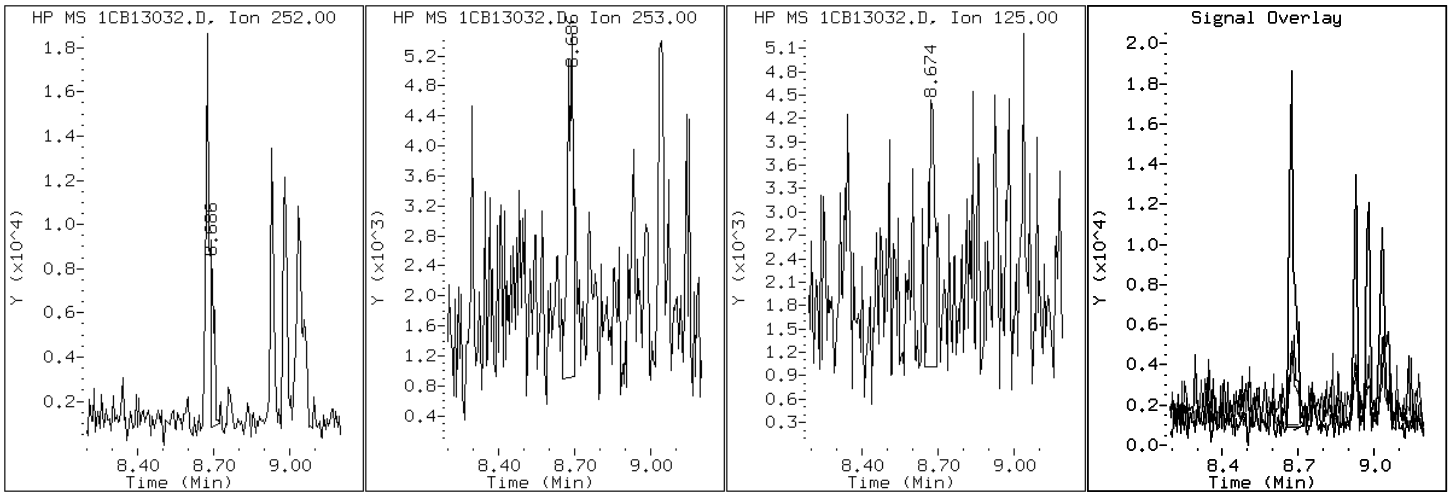
Data File: 1CB13032.D

Date: 13-FEB-2013 20:45

Client ID: CV0966C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-8-a Operator: SCC

21 Benzo(k)fluoranthene



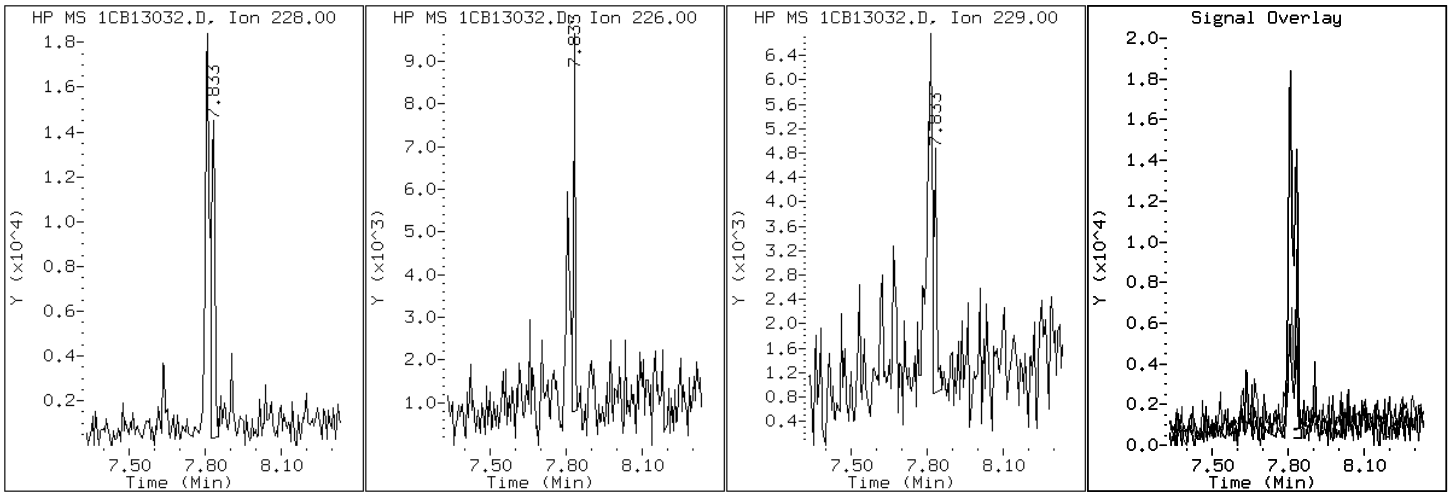
Data File: 1CB13032.D

Date: 13-FEB-2013 20:45

Client ID: CV0966C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-8-a Operator: SCC

19 Chrysene



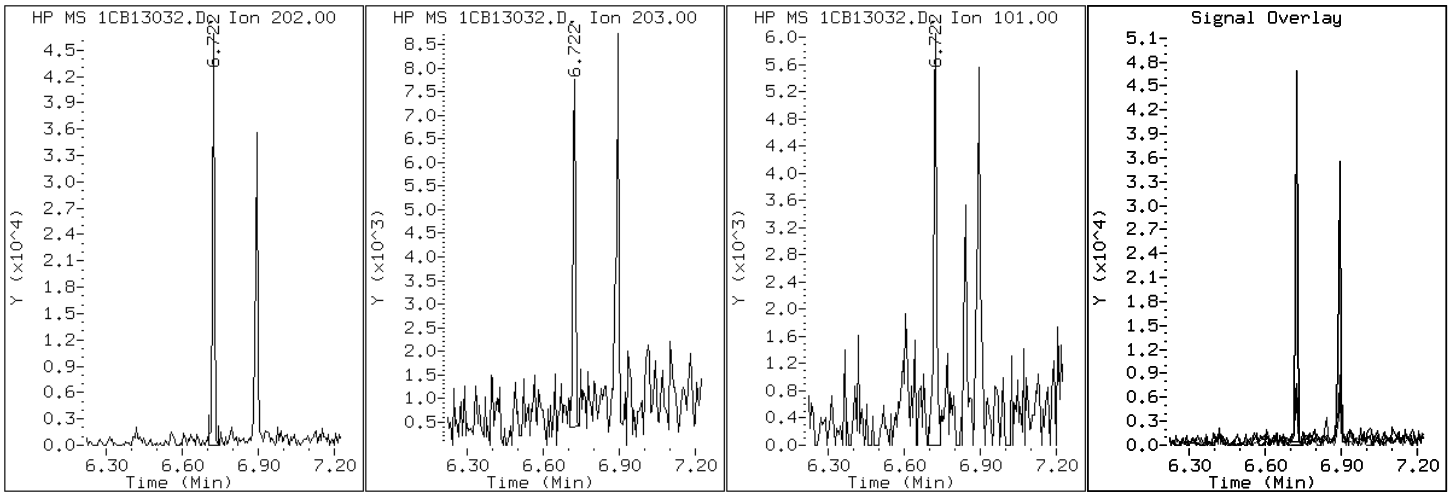
Data File: 1CB13032.D

Date: 13-FEB-2013 20:45

Client ID: CV0966C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-8-a Operator: SCC

15 Fluoranthene



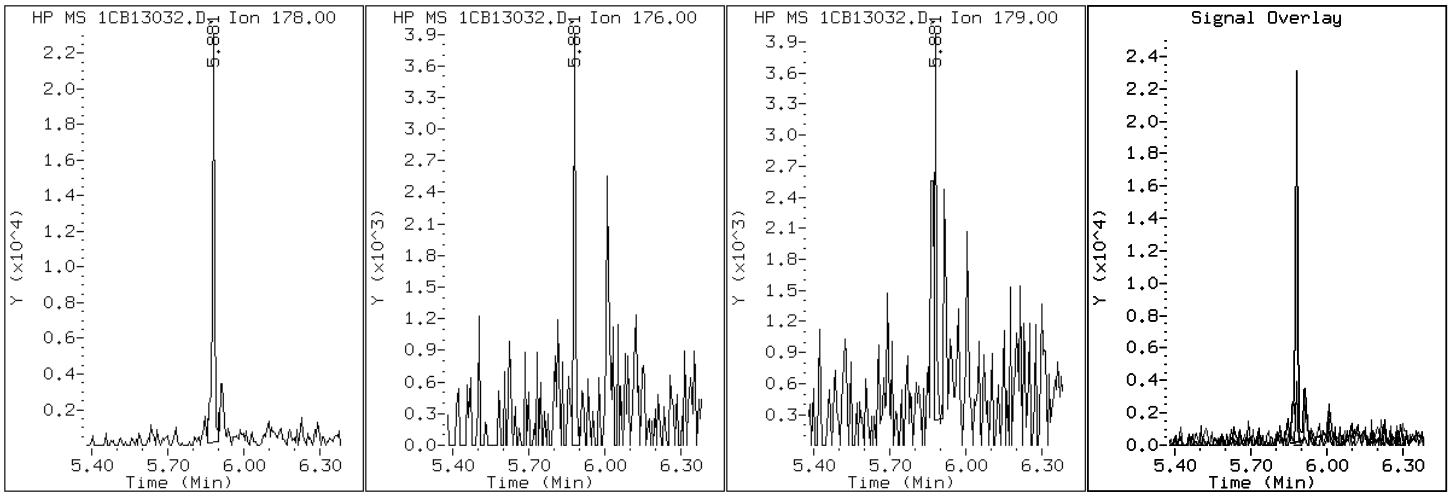
Data File: 1CB13032.D

Date: 13-FEB-2013 20:45

Client ID: CV0966C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-8-a Operator: SCC

11 Phenanthrene



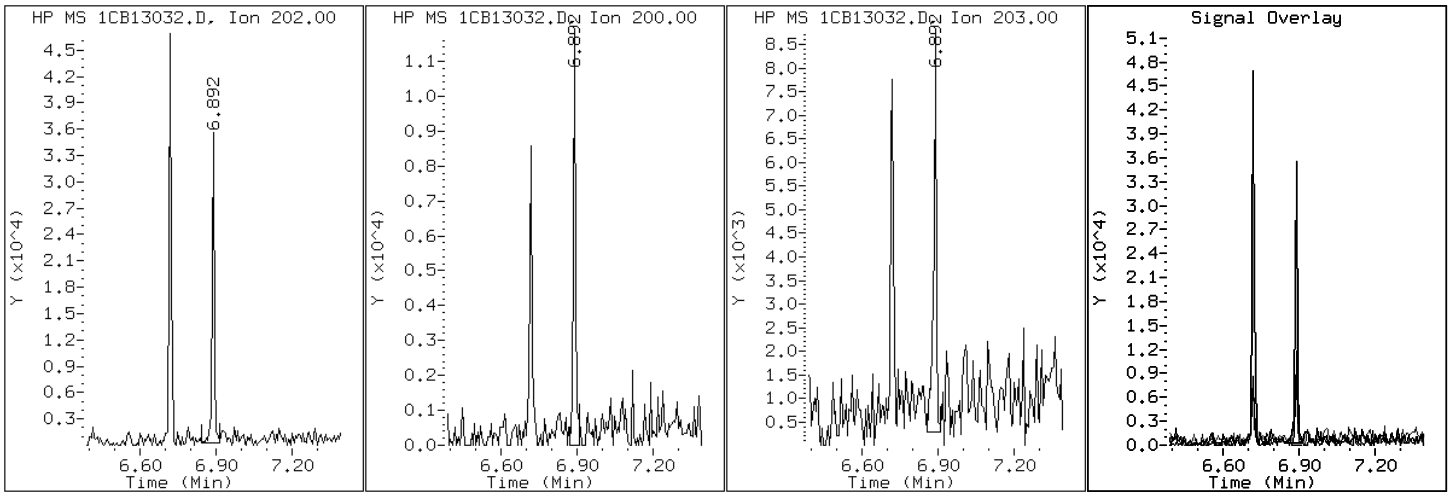
Data File: 1CB13032.D

Date: 13-FEB-2013 20:45

Client ID: CV0966C-CS-SP Instrument: BSMC5973.i

Sample Info: 680-87218-a-8-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB13032.D
Inj. Date and Time: 13-FEB-2013 20:45
Instrument ID: BSMC5973.i
Client ID: CV0966C-CS-SP
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/14/2013

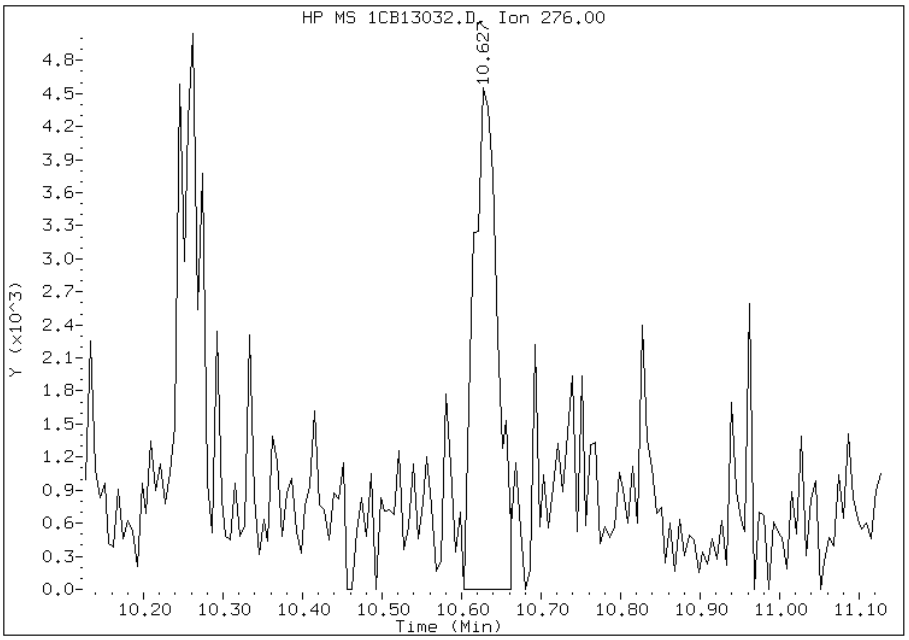
Processing Integration Results

RT: 10.63

Response: 9373

Amount: 0

Conc: 480



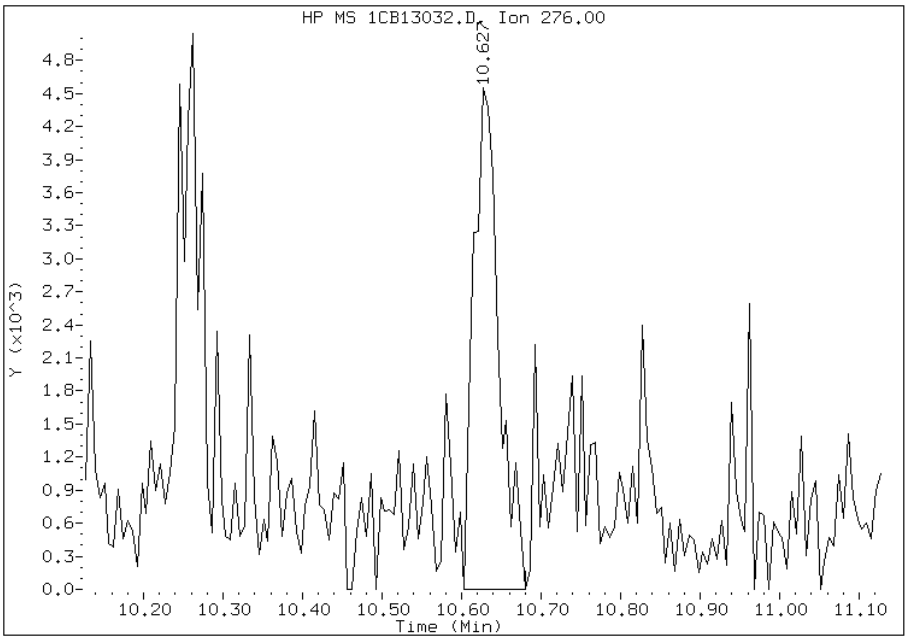
Manual Integration Results

RT: 10.63

Response: 9973

Amount: 0

Conc: 511



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:16
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB13032.D
Inj. Date and Time: 13-FEB-2013 20:45
Instrument ID: BSMC5973.i
Client ID: CV0966C-CS-SP
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

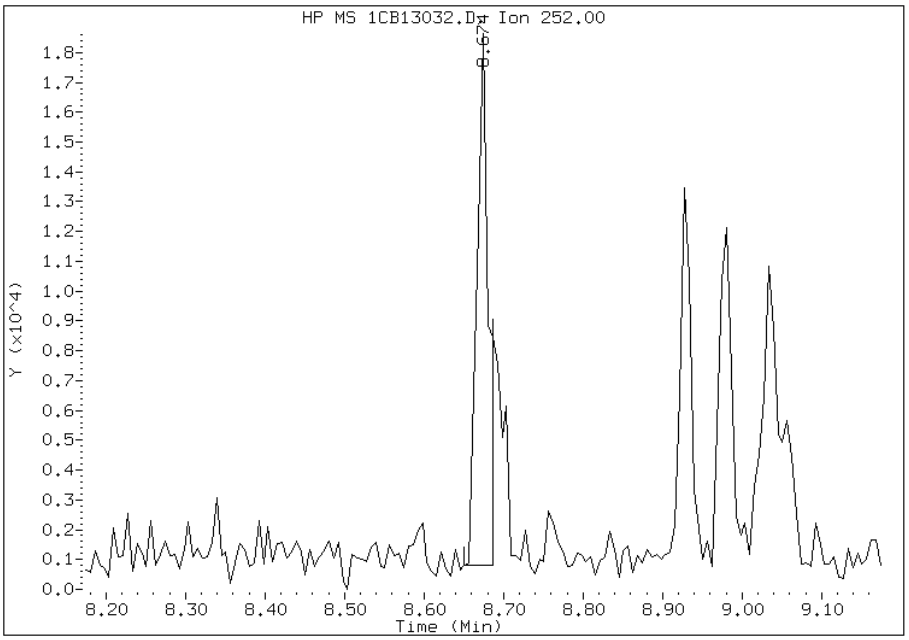
Processing Integration Results

RT: 8.67

Response: 17887

Amount: 0

Conc: 772



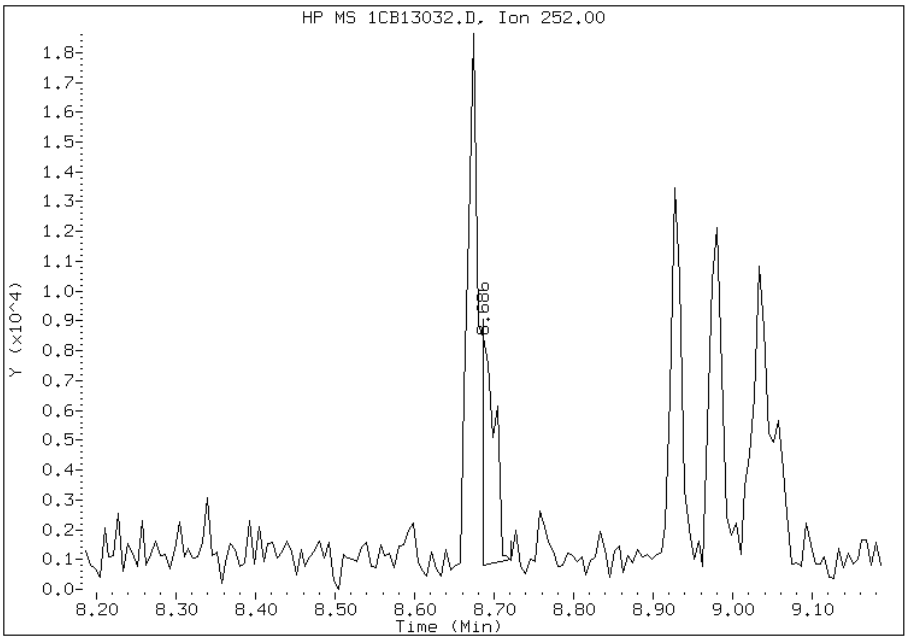
Manual Integration Results

RT: 8.69

Response: 8545

Amount: 0

Conc: 369



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:16
Manual Integration Reason: Analyte Misidentified by the Data System

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0748A-CS | Lab Sample ID: 680-87218-9

Matrix: Solid | Lab File ID: 1CB13033.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:31

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.26(g) | Date Analyzed: 02/13/2013 21:03

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

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

% Moisture: 27.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	540	U	540	110
208-96-8	Acenaphthylene	37	J	220	27
120-12-7	Anthracene	70		45	23
56-55-3	Benzo[a]anthracene	400		43	21
50-32-8	Benzo[a]pyrene	430		56	28
205-99-2	Benzo[b]fluoranthene	630		66	33
191-24-2	Benzo[g,h,i]perylene	310		110	24
207-08-9	Benzo[k]fluoranthene	250		43	19
218-01-9	Chrysene	550		48	24
53-70-3	Dibenz(a,h)anthracene	81	J	110	22
206-44-0	Fluoranthene	640		110	22
86-73-7	Fluorene	36	J	110	22
193-39-5	Indeno[1,2,3-cd]pyrene	260		110	38
90-12-0	1-Methylnaphthalene	280		220	24
91-57-6	2-Methylnaphthalene	300		220	38
91-20-3	Naphthalene	200	J	220	24
85-01-8	Phenanthrene	450	B	43	21
129-00-0	Pyrene	640		110	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	102		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13033.D
Lab Smp Id: 680-87218-A-9-A Client Smp ID: CV0748A-CS
Inj Date : 13-FEB-2013 21:03
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-9-a
Misc Info : 680-87218-A-9-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 33
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.260	Weight Extracted
M	26.990	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.822	3.821	(1.000)	2159394	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1615345	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	2954978	40.0000	
$ 14 o-Terphenyl	230	6.116	6.115	(1.043)	110574	2.55384	916.8921
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	2997767	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	2778165	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	32557	0.56897	204.2738
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	31276	0.84060	301.7981
4 1-Methylnaphthalene	142	4.322	4.321	(1.131)	26179	0.77364	277.7553
5 Acenaphthylene	152	4.822	4.821	(0.982)	6581	0.10240	36.7655
9 Fluorene	166	5.251	5.251	(1.069)	5140	0.09934	35.6670
11 Phenanthrene	178	5.880	5.880	(1.003)	111604	1.26529	454.2718
12 Anthracene	178	5.916	5.915	(1.009)	15602	0.19633	70.4866
13 Carbazole	167	6.021	6.021	(1.027)	12982	0.18807	67.5208

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	153690	1.78320	640.2143
16 Pyrene	202	6.892	6.892	(0.882)	142528	1.78589	641.1790
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	92133	1.11450	400.1334
19 Chrysene	228	7.833	7.833	(1.002)	131676	1.54203	553.6283
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	120019	1.76209	632.6363(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.962)	53183	0.70876	254.4637(M)
22 Benzo(a)pyrene	252	8.980	8.980	(0.994)	77227	1.19155	427.7981
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	44692	0.71794	257.7577(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	13246	0.22564	81.0115
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	55128	0.87181	313.0011

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB13033.D

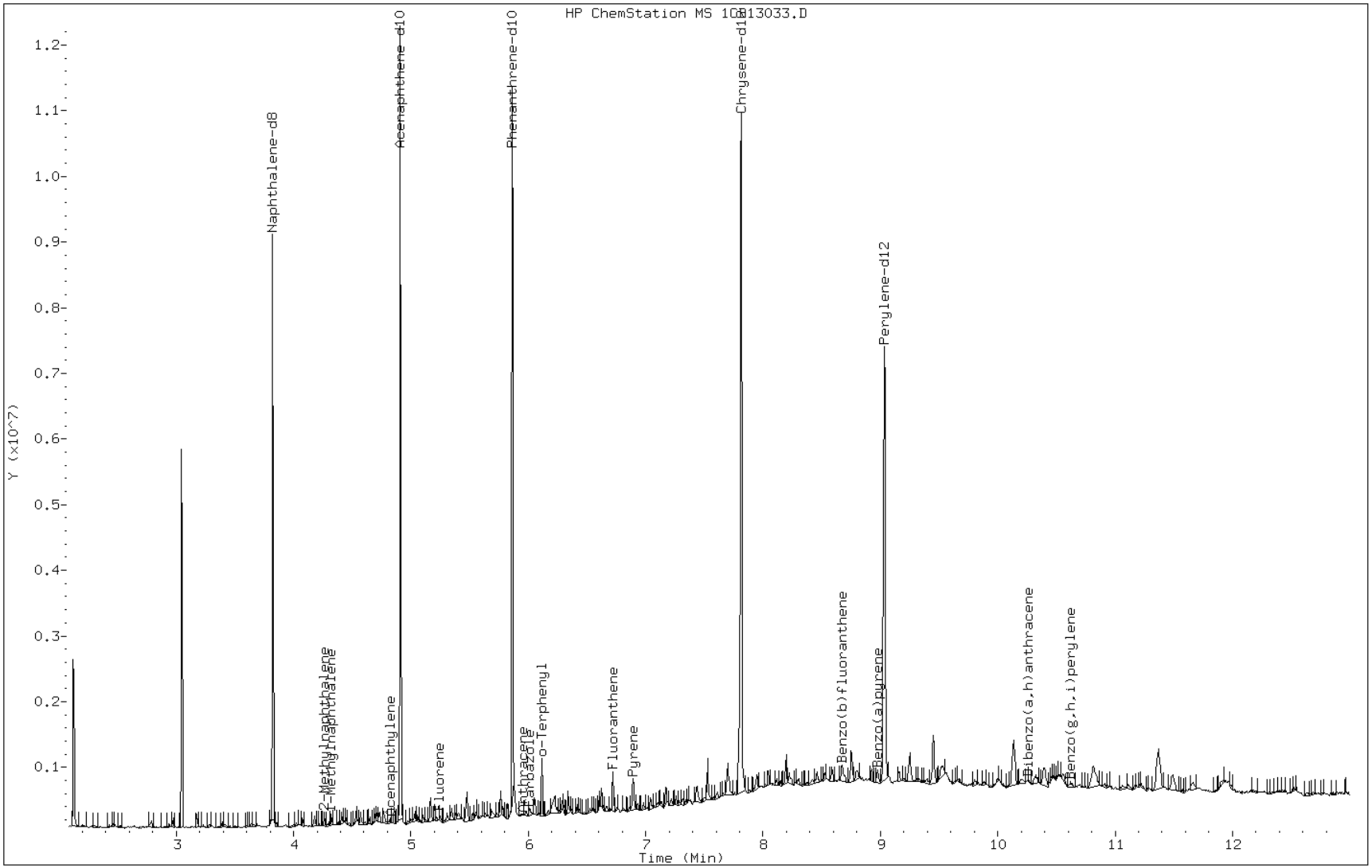
Date: 13-FEB-2013 21:03

Client ID: CV0748A-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a

Operator: SCC



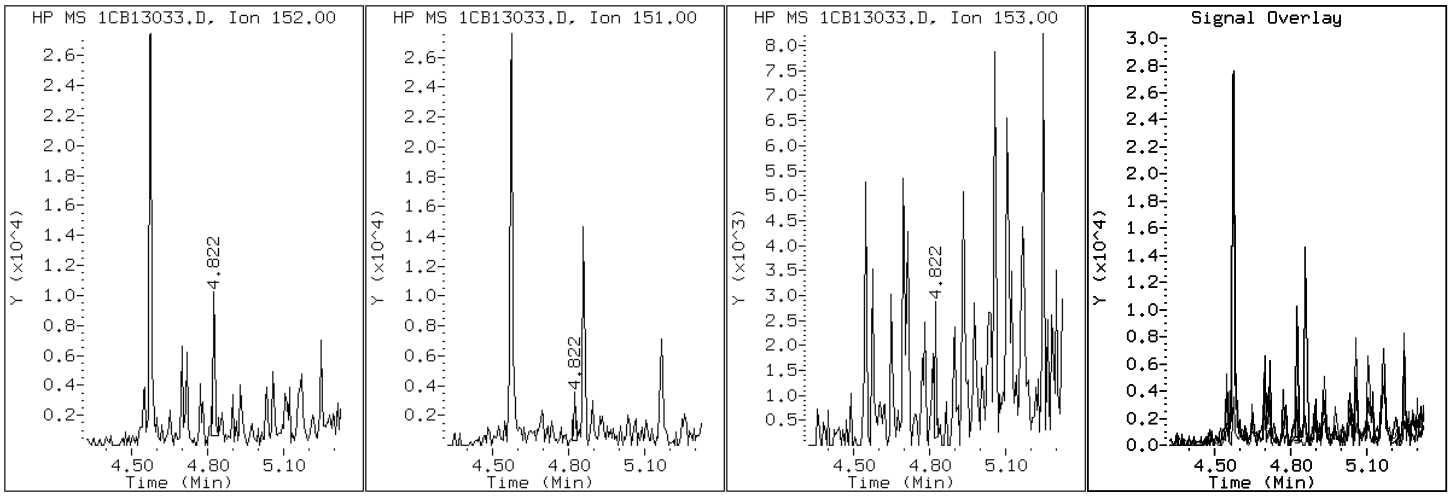
Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

Client ID: CV0748A-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a Operator: SCC

5 Acenaphthylene



Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

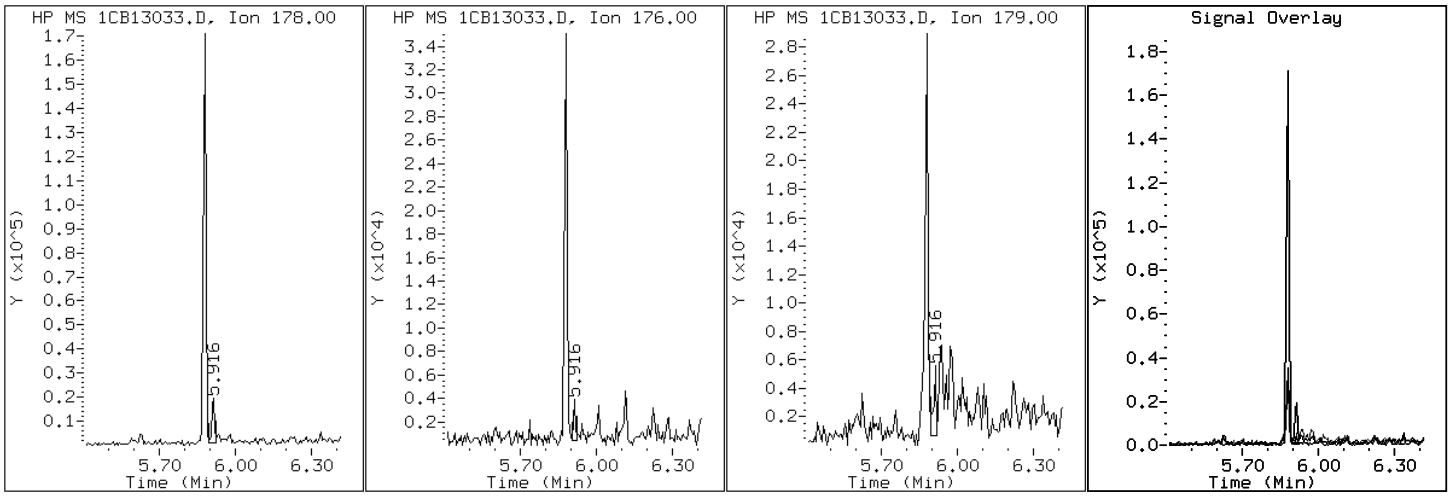
Client ID: CV0748A-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a

Operator: SCC

12 Anthracene



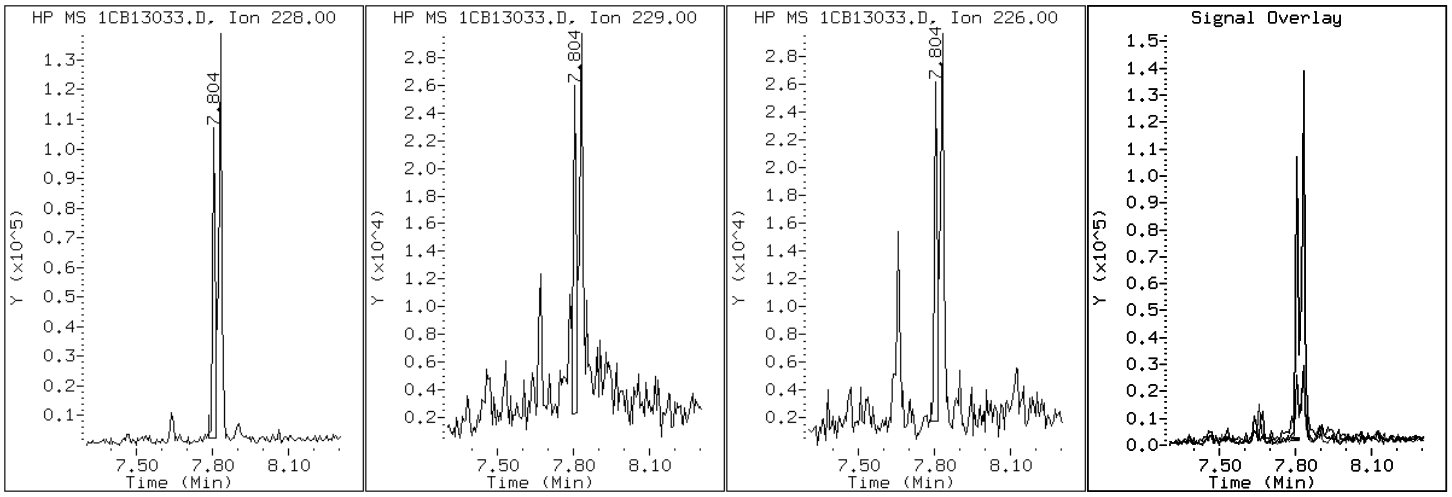
Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

Client ID: CV0748A-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a Operator: SCC

17 Benzo(a)anthracene



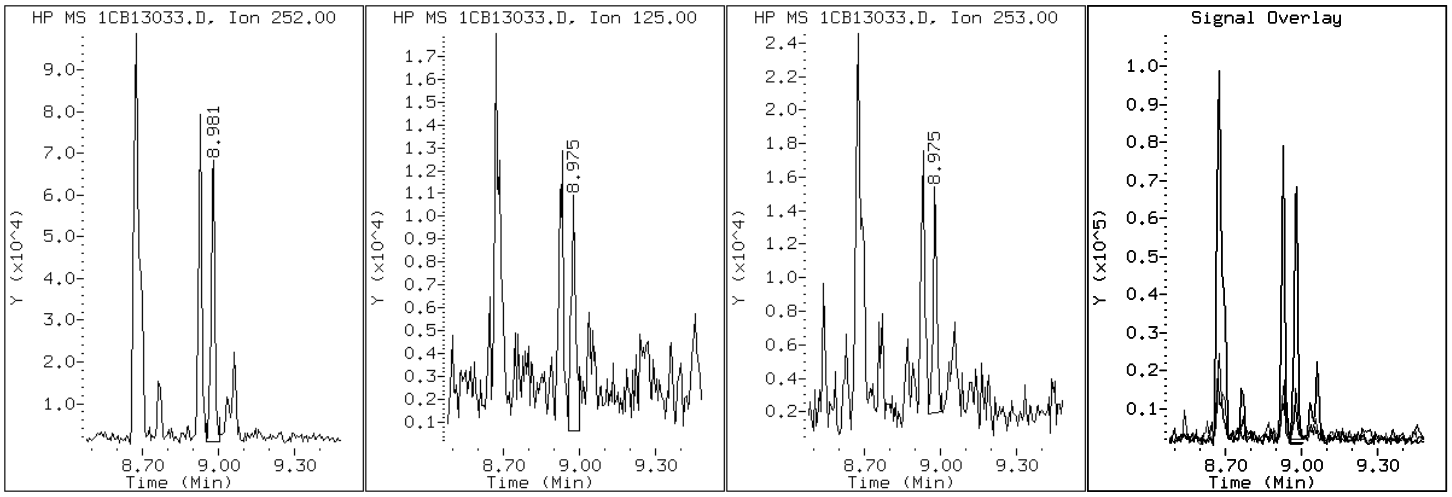
Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

Client ID: CV0748A-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a Operator: SCC

22 Benzo(a)pyrene



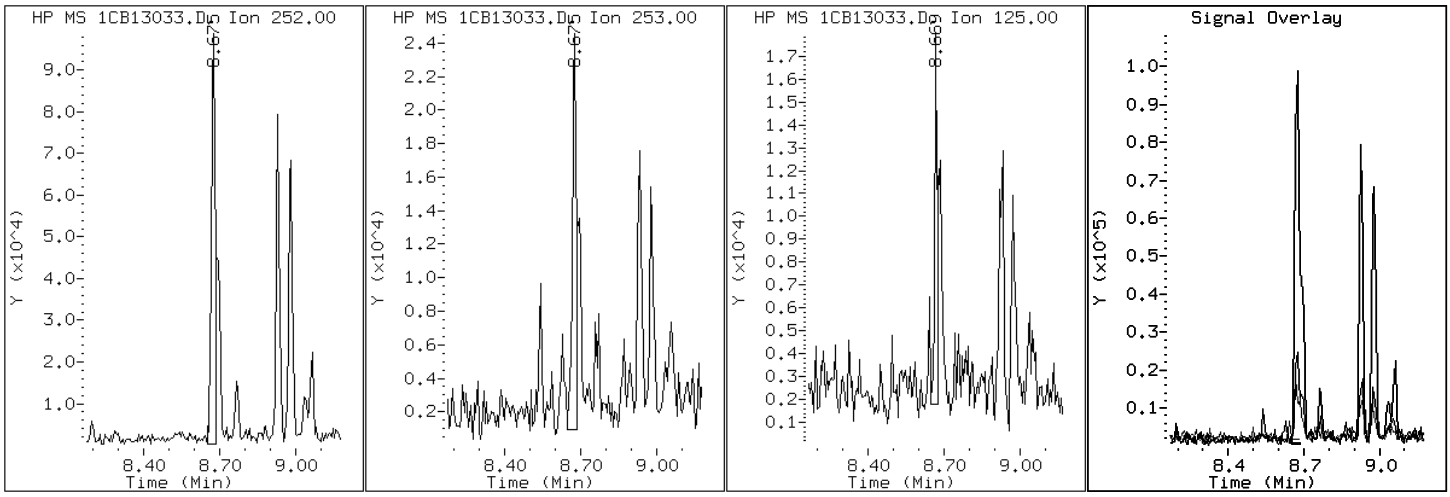
Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

Client ID: CV0748A-CS | Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a | Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

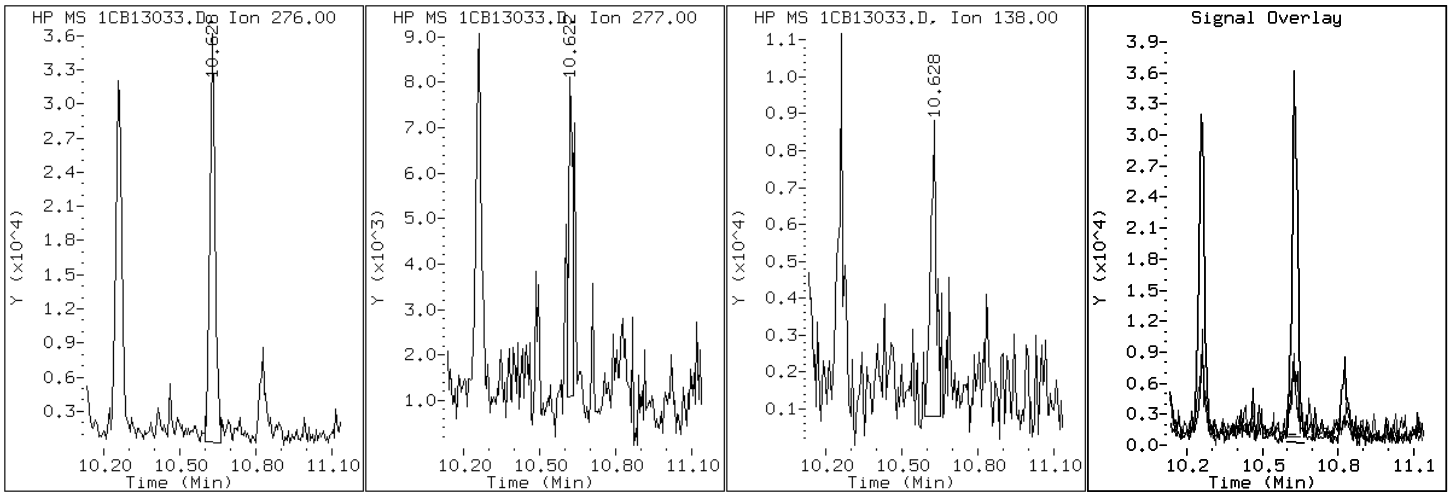
Client ID: CV0748A-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a

Operator: SCC

26 Benzo(g,h,i)perylene



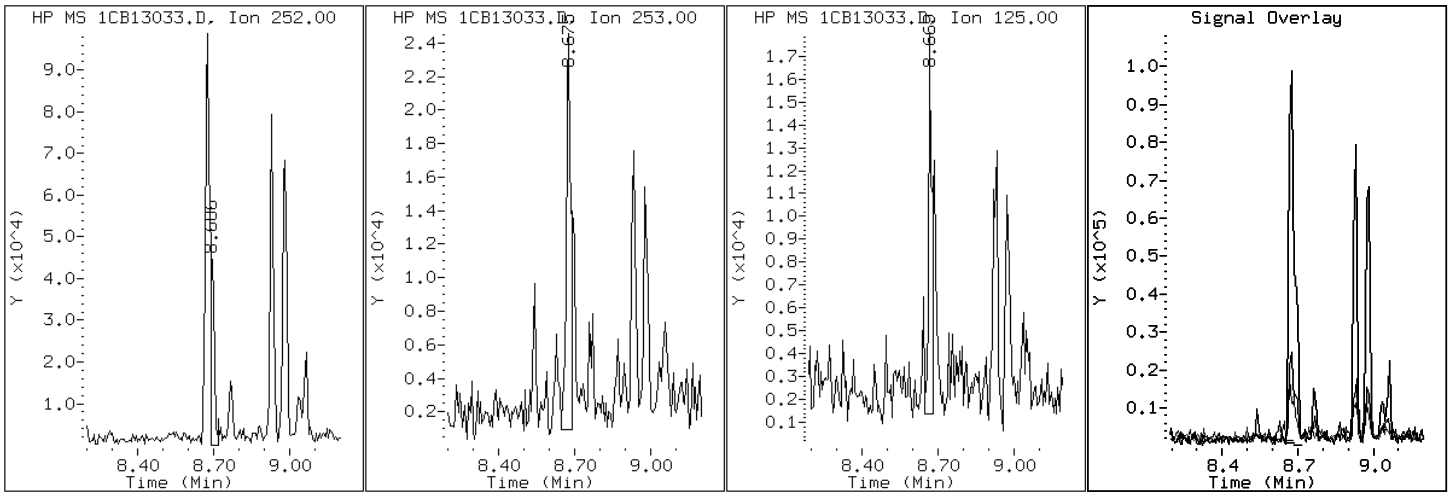
Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

Client ID: CV0748A-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a Operator: SCC

21 Benzo(k)fluoranthene



Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

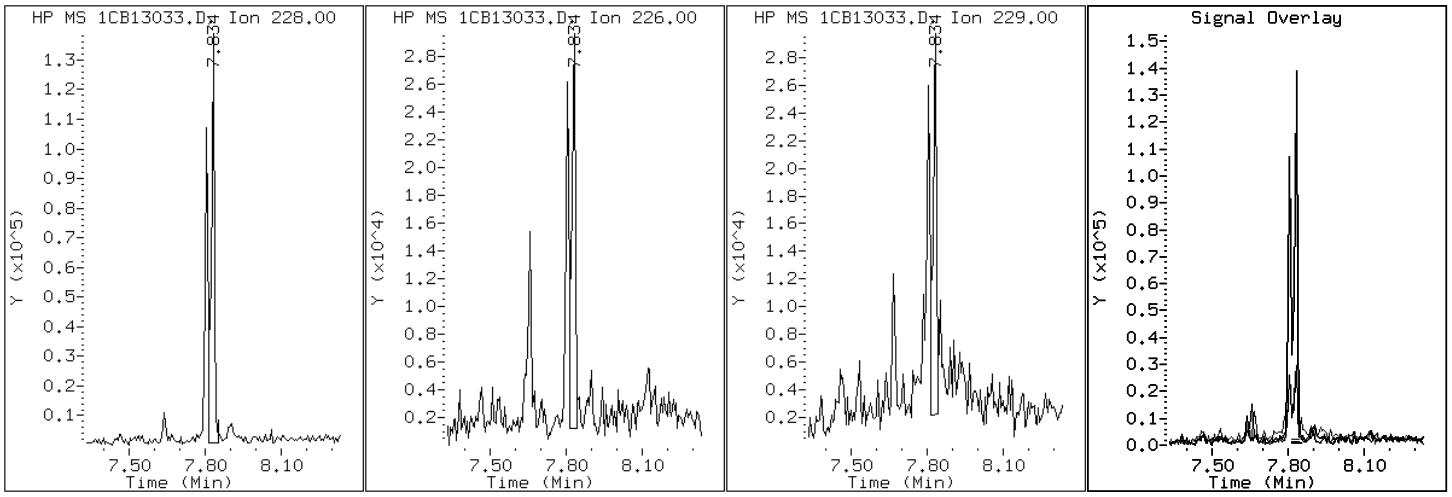
Client ID: CV0748A-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a

Operator: SCC

19 Chrysene



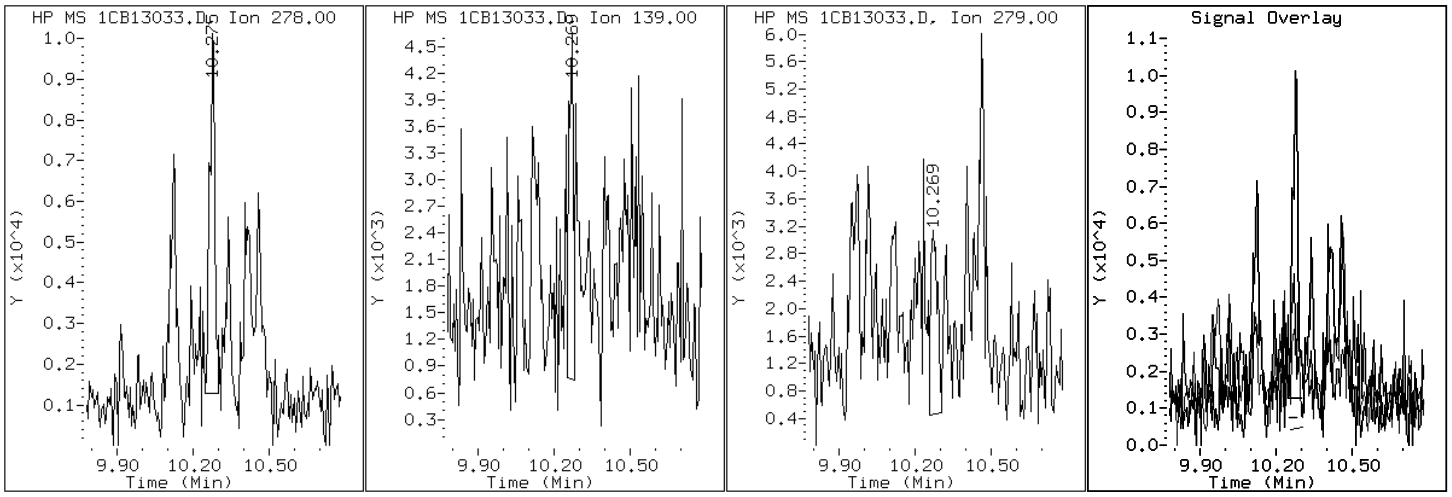
Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

Client ID: CV0748A-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

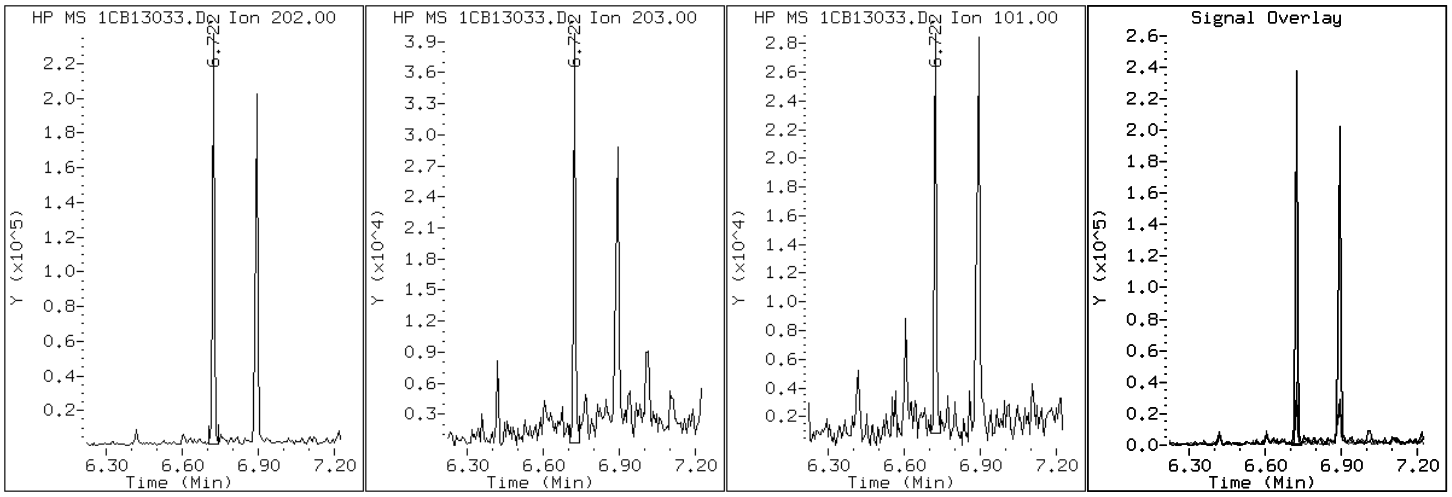
Client ID: CV0748A-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a

Operator: SCC

15 Fluoranthene



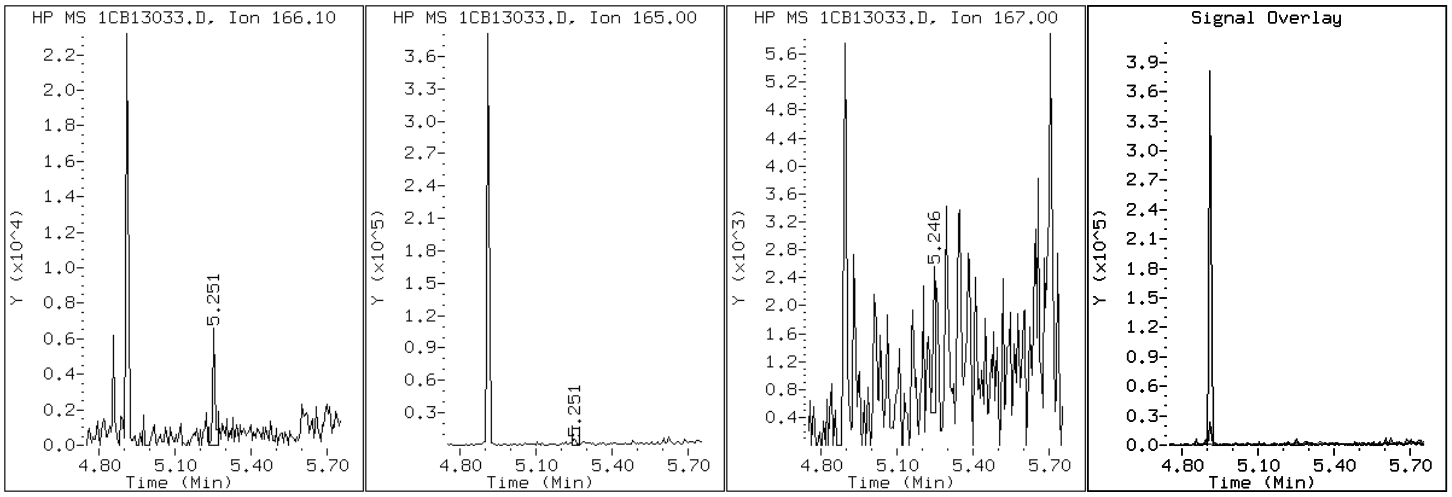
Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

Client ID: CV0748A-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a Operator: SCC

9 Fluorene



Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

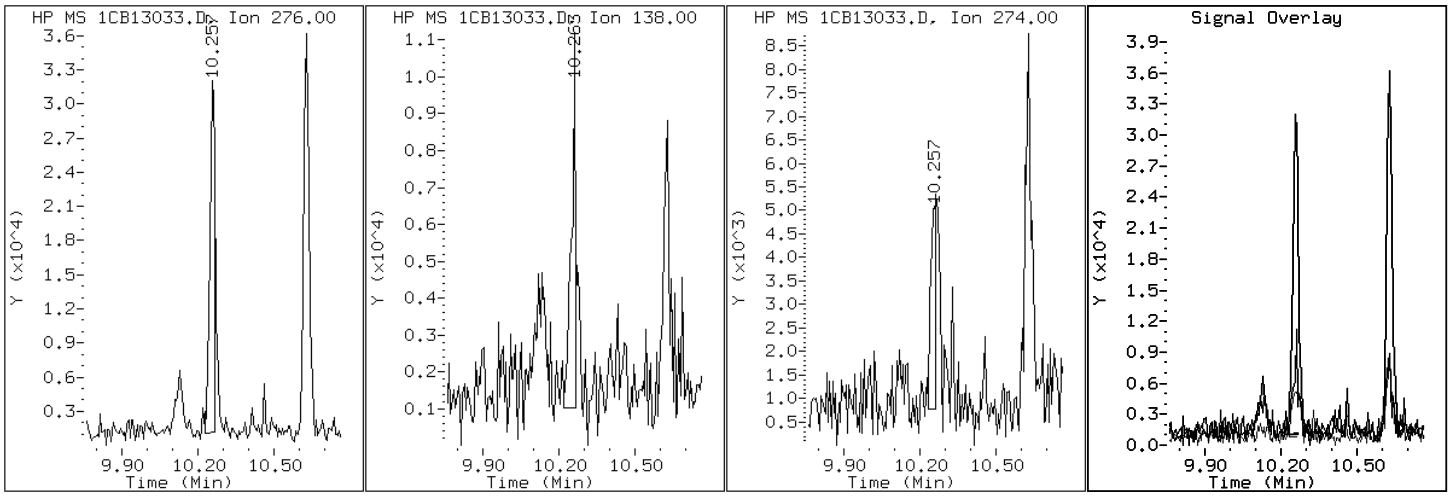
Client ID: CV0748A-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a

Operator: SCC

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



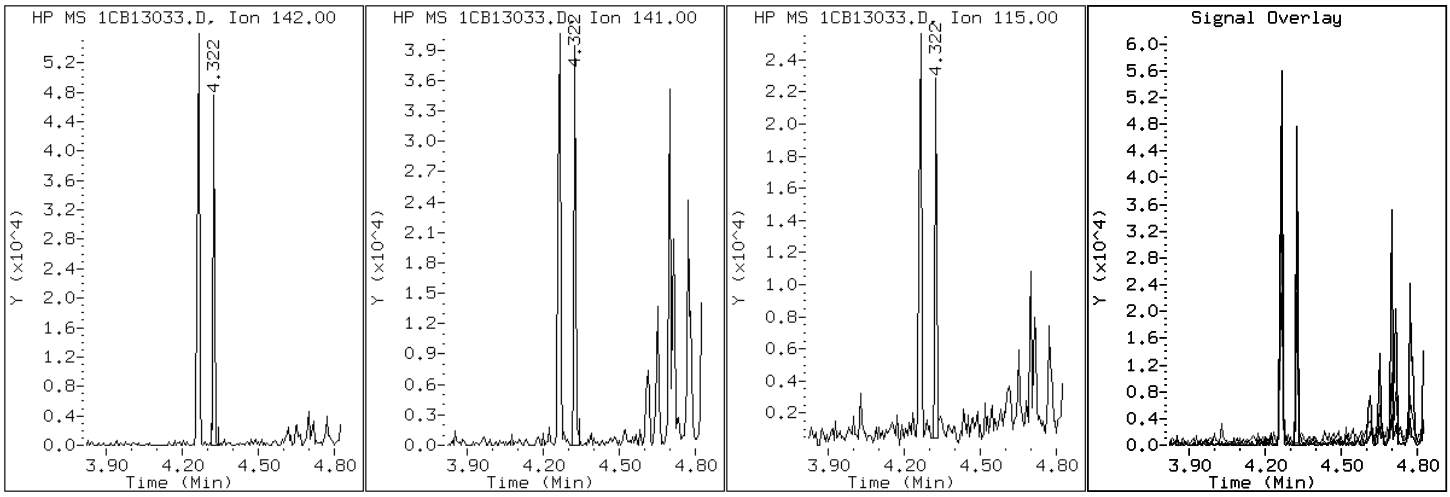
Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

Client ID: CV0748A-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a Operator: SCC

4 1-Methylnaphthalene



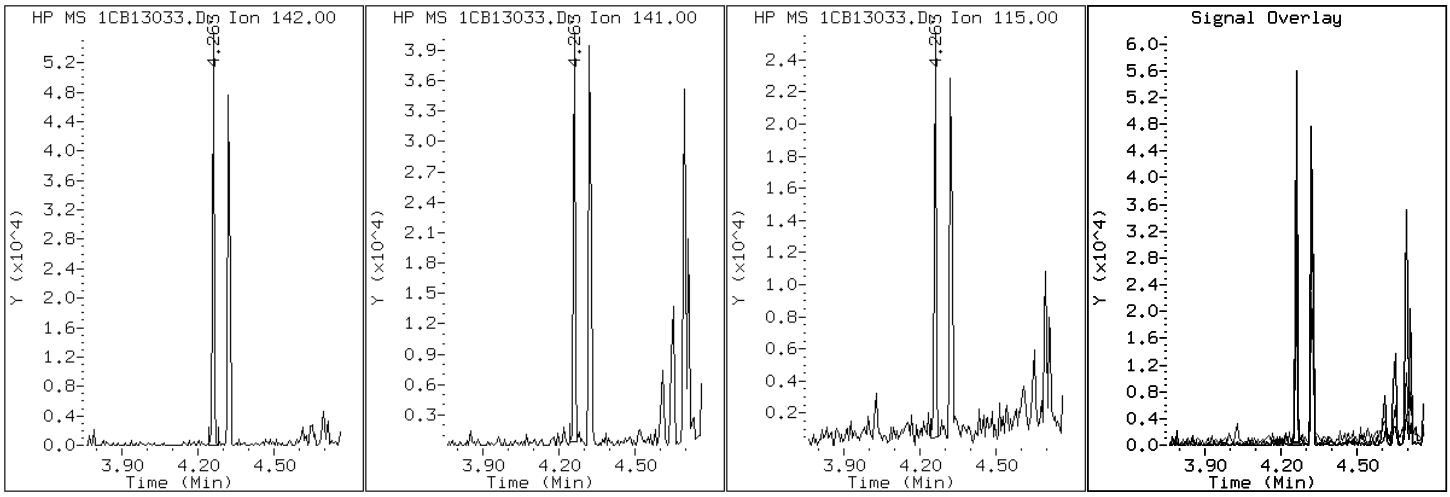
Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

Client ID: CV0748A-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a Operator: SCC

3 2-Methylnaphthalene



Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

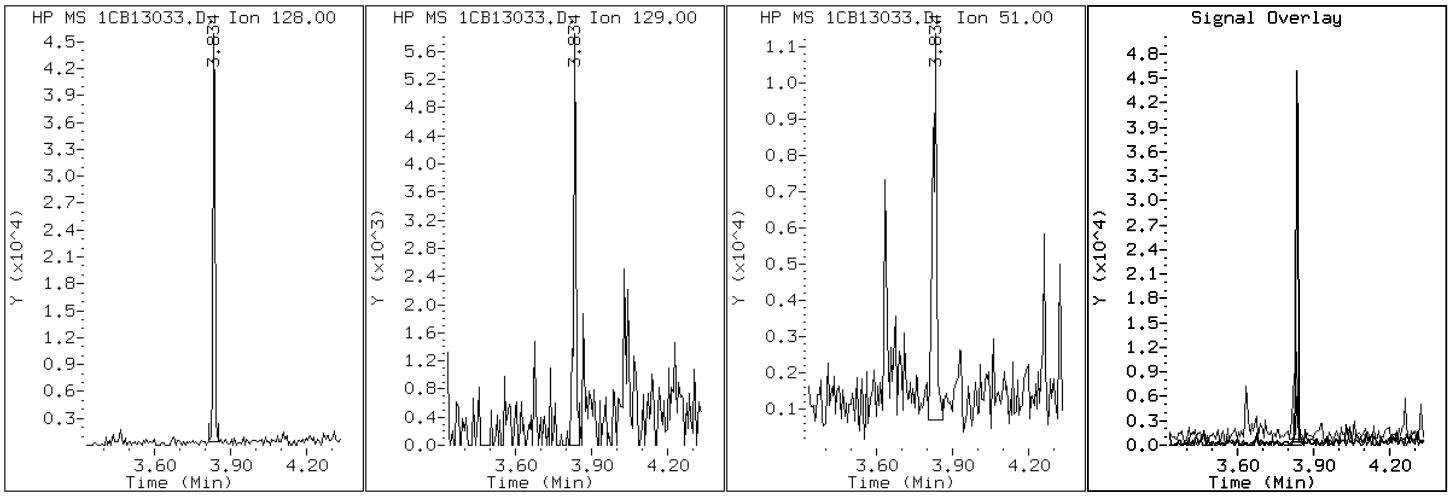
Client ID: CV0748A-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a

Operator: SCC

2 Naphthalene



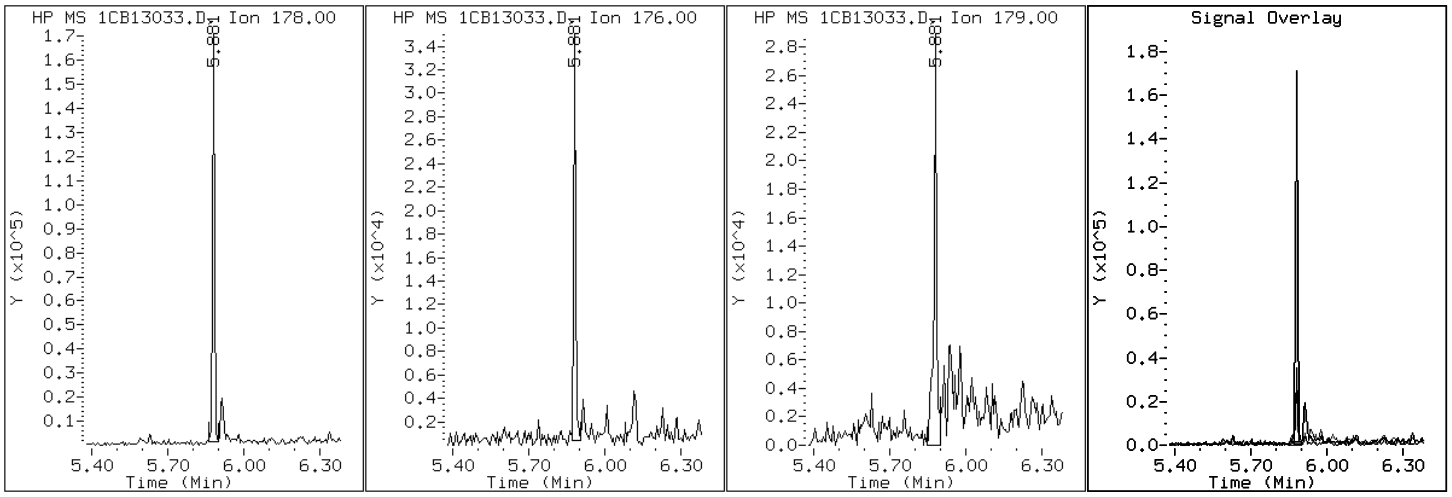
Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

Client ID: CV0748A-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a Operator: SCC

11 Phenanthrene



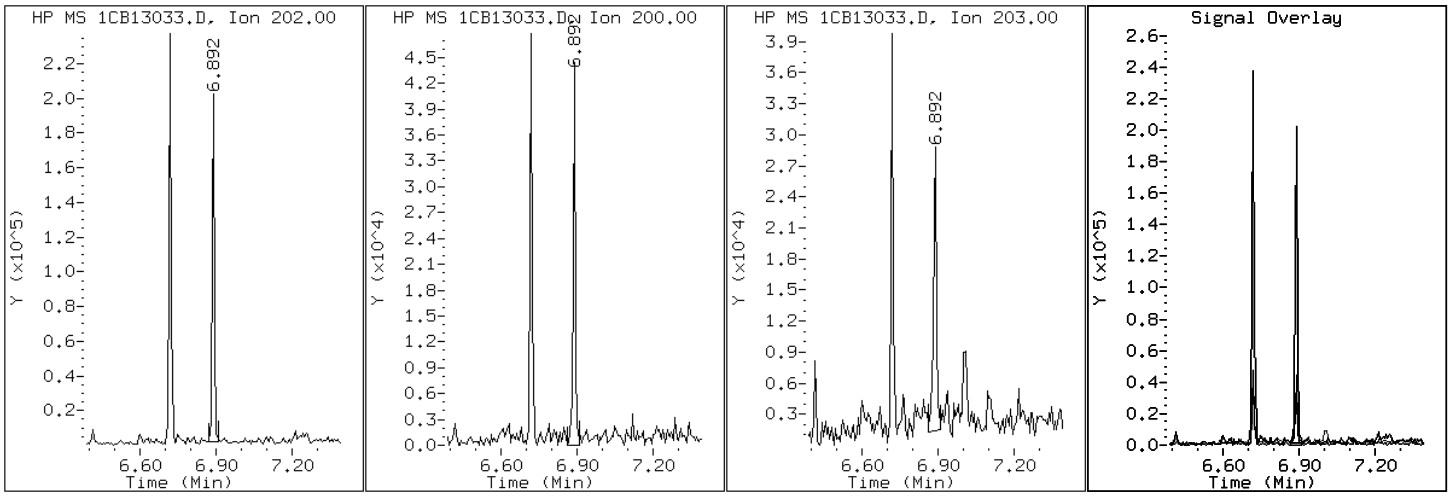
Data File: 1CB13033.D

Date: 13-FEB-2013 21:03

Client ID: CV0748A-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-9-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB13033.D
Inj. Date and Time: 13-FEB-2013 21:03
Instrument ID: BSMC5973.i
Client ID: CV0748A-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

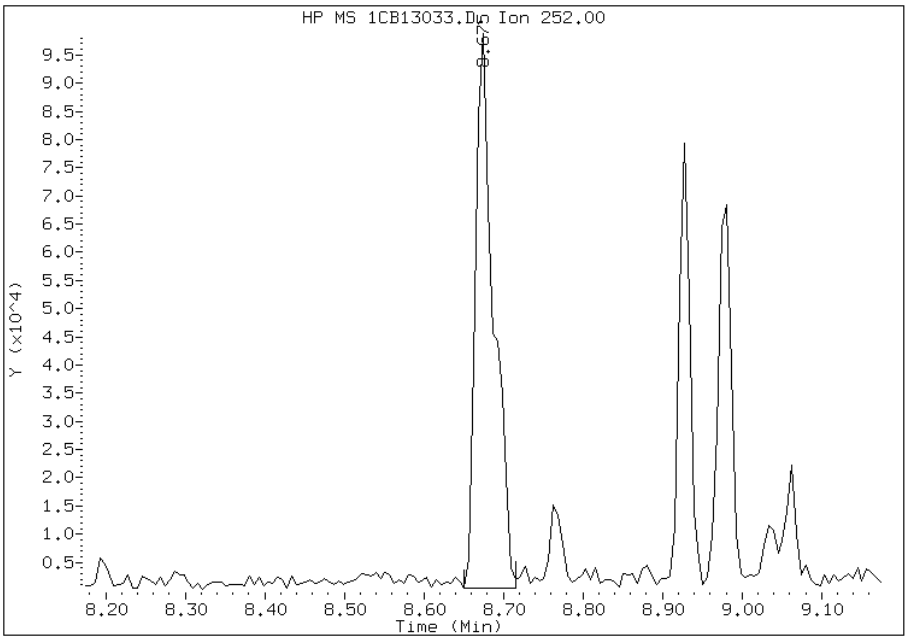
Processing Integration Results

RT: 8.67

Response: 156506

Amount: 2

Conc: 825



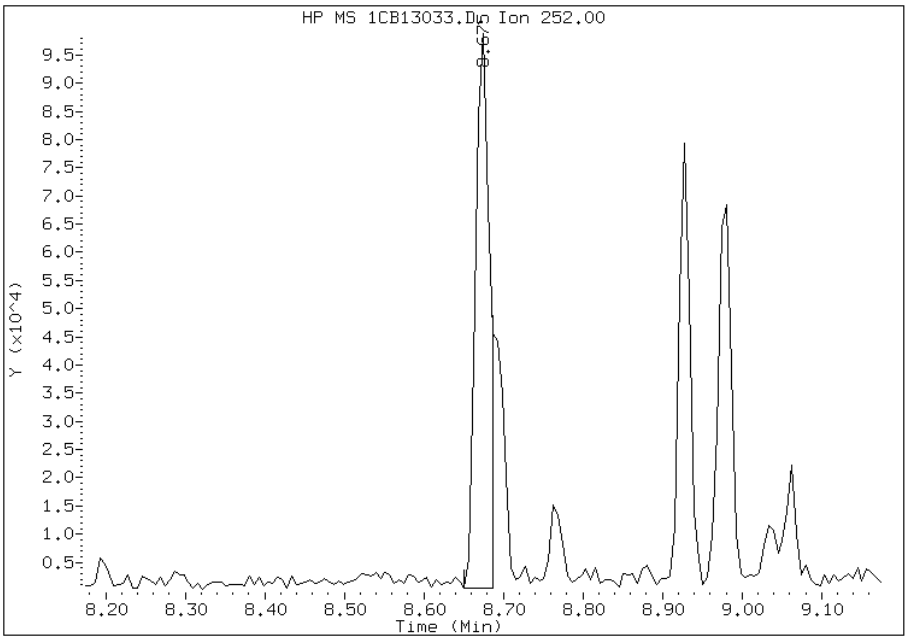
Manual Integration Results

RT: 8.67

Response: 120019

Amount: 2

Conc: 633



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

Manual Integration Report

Data File: 1CB13033.D
Inj. Date and Time: 13-FEB-2013 21:03
Instrument ID: BSMC5973.i
Client ID: CV0748A-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

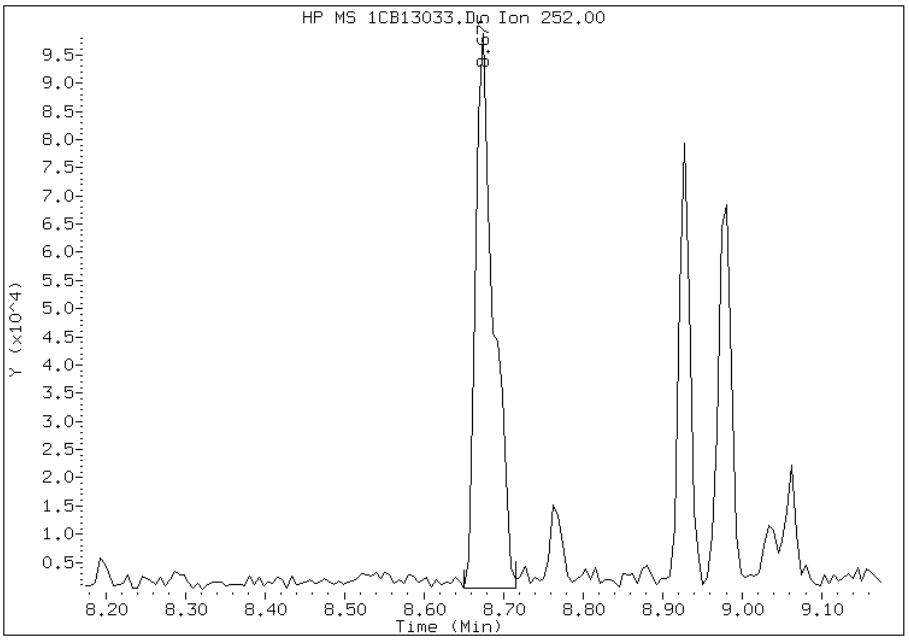
Processing Integration Results

RT: 8.67

Response: 156506

Amount: 2

Conc: 749



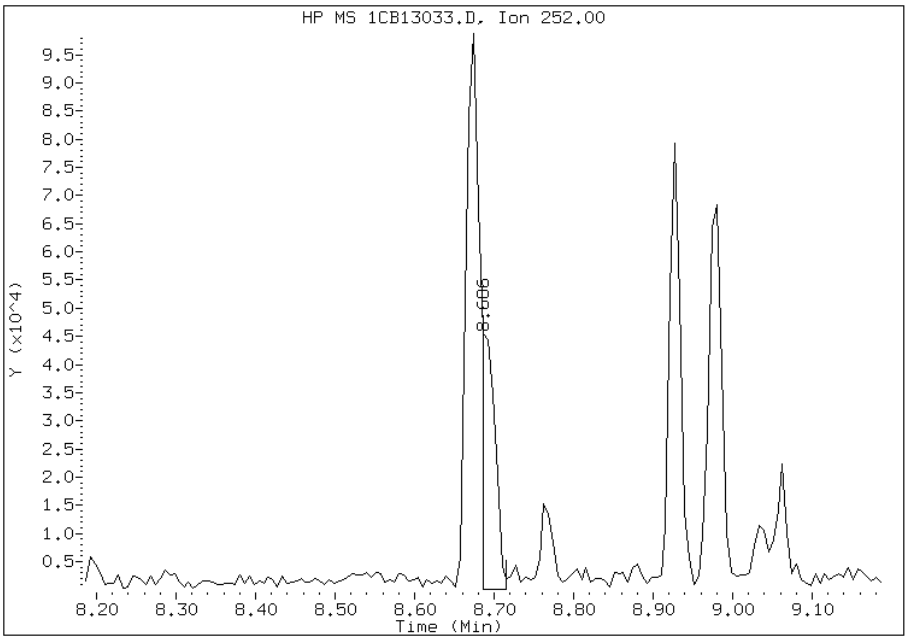
Manual Integration Results

RT: 8.69

Response: 53183

Amount: 1

Conc: 254



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

Manual Integration Report

Data File: 1CB13033.D
Inj. Date and Time: 13-FEB-2013 21:03
Instrument ID: BSMC5973.i
Client ID: CV0748A-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

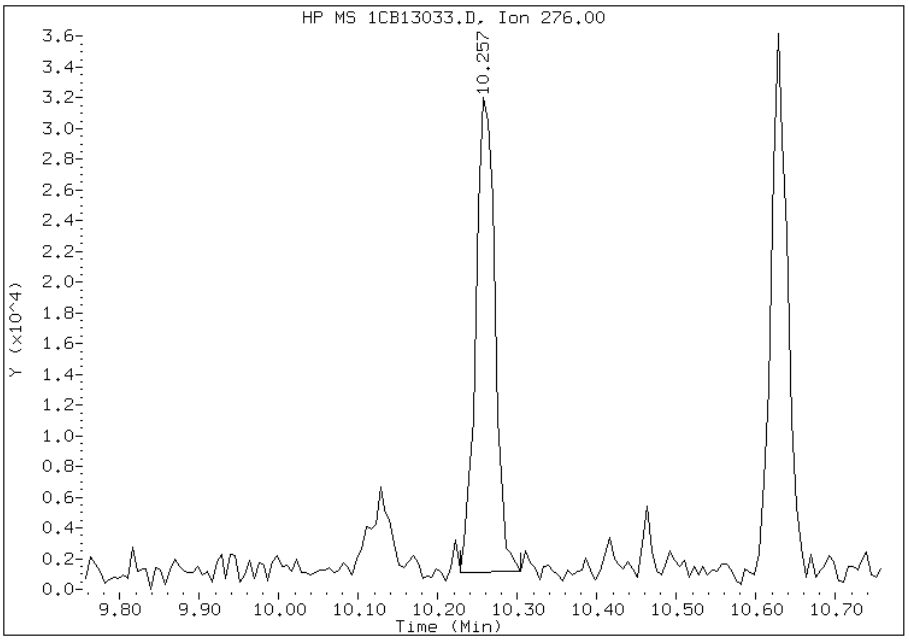
Processing Integration Results

RT: 10.26

Response: 51125

Amount: 1

Conc: 295



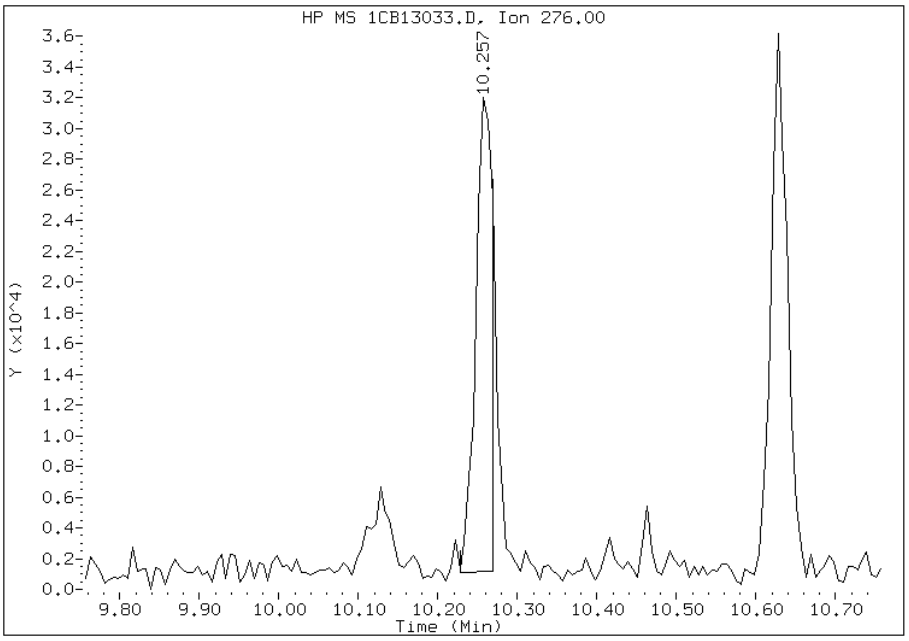
Manual Integration Results

RT: 10.26

Response: 44692

Amount: 1

Conc: 258



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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0748A-CSD | Lab Sample ID: 680-87218-10

Matrix: Solid | Lab File ID: 1CB13034.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:33

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.03(g) | Date Analyzed: 02/13/2013 21:22

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

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

% Moisture: 36.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	37	J	160	31
208-96-8	Acenaphthylene	110		63	7.9
120-12-7	Anthracene	170		13	6.6
56-55-3	Benzo[a]anthracene	470		13	6.1
50-32-8	Benzo[a]pyrene	410		16	8.2
205-99-2	Benzo[b]fluoranthene	560		19	9.6
191-24-2	Benzo[g,h,i]perylene	220		31	6.9
207-08-9	Benzo[k]fluoranthene	270		13	5.7
218-01-9	Chrysene	470		14	7.1
53-70-3	Dibenz(a,h)anthracene	64		31	6.4
206-44-0	Fluoranthene	1000		31	6.3
86-73-7	Fluorene	110		31	6.4
193-39-5	Indeno[1,2,3-cd]pyrene	210		31	11
90-12-0	1-Methylnaphthalene	110		63	6.9
91-57-6	2-Methylnaphthalene	100		63	11
91-20-3	Naphthalene	100		63	6.9
85-01-8	Phenanthrene	810	B	13	6.1
129-00-0	Pyrene	860		31	5.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13034.D
Lab Smp Id: 680-87218-A-10-A Client Smp ID: CV0748A-CSD
Inj Date : 13-FEB-2013 21:22
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-10-a
Misc Info : 680-87218-A-10-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	36.466	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2017721	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1571215	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	2868934	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	367231	8.73602	914.8490
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3068515	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	2849349	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	52668	0.98506	103.1566
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	34799	1.00096	104.8223
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	33070	1.04590	109.5280
5 Acenaphthylene	152	4.821	4.821	(0.982)	68155	1.09031	114.1792
7 Acenaphthene	154	4.933	4.927	(1.005)	14010	0.35735	37.4223
9 Fluorene	166	5.251	5.251	(1.069)	50478	1.00302	105.0381
11 Phenanthrene	178	5.880	5.880	(1.003)	665685	7.77345	814.0474
12 Anthracene	178	5.915	5.915	(1.009)	126347	1.63757	171.4889

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.021	6.021	(1.027)	63442	0.94663	99.1329
15 Fluoranthene	202	6.721	6.721	(1.146)	802806	9.59399	1004.6973
16 Pyrene	202	6.892	6.892	(0.882)	670074	8.20251	858.9791
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	379613	4.48617	469.7983
19 Chrysene	228	7.833	7.833	(1.002)	395920	4.52964	474.3511
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	373956	5.35318	560.5936(M)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	195766	2.54377	266.3875(MH)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	257842	3.87892	406.2065
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	129438	2.02736	212.3084(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	36552	0.60710	63.5765
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	138387	2.13381	223.4562

QC Flag Legend

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

Data File: 1CB13034.D

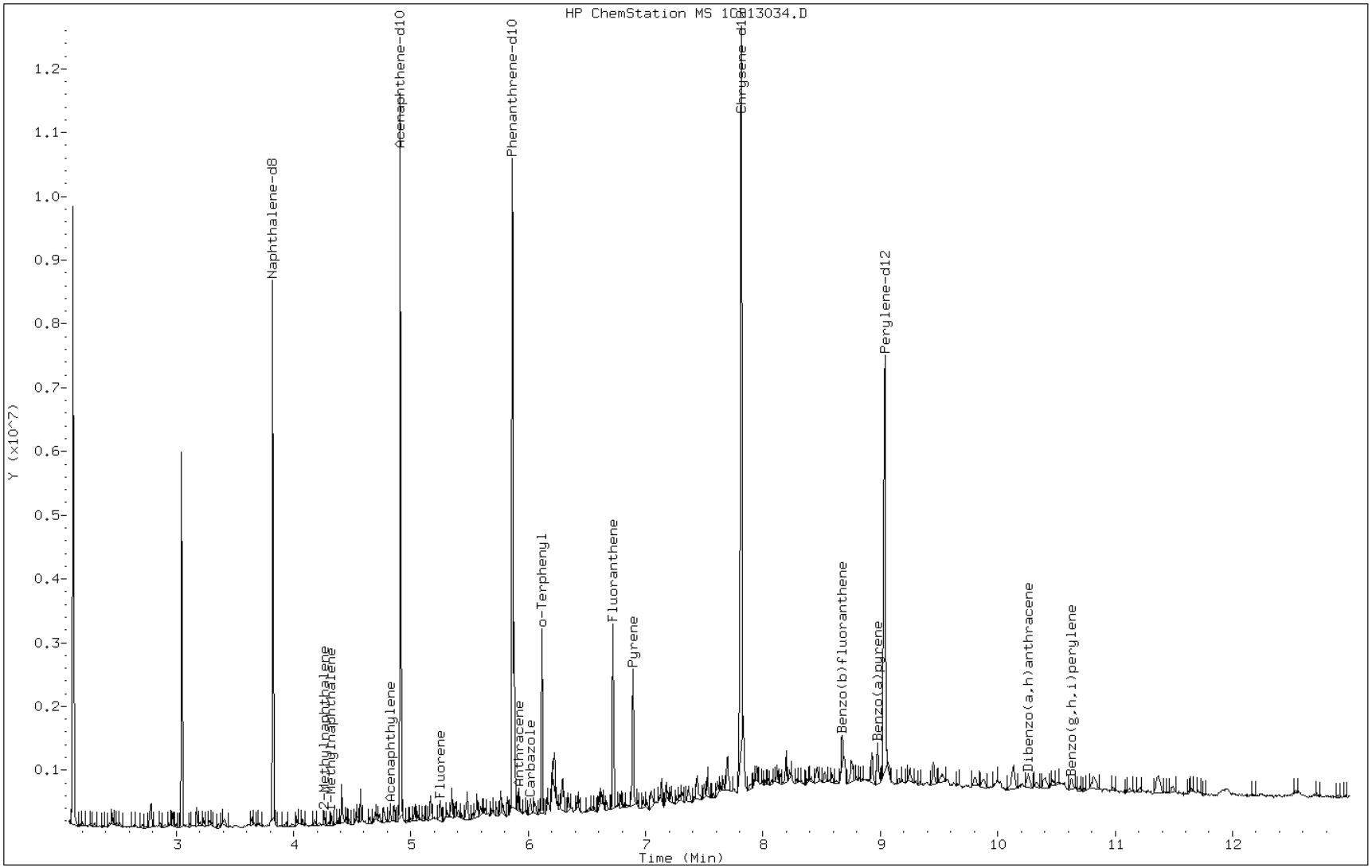
Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD

Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a

Operator: SCC



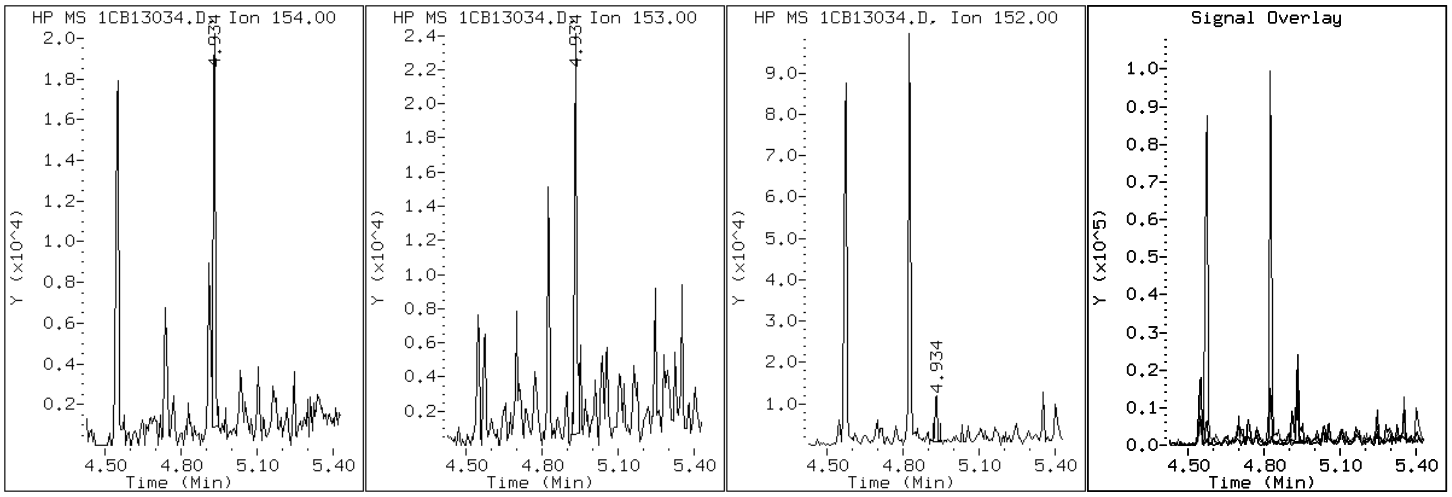
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

7 Acenaphthene



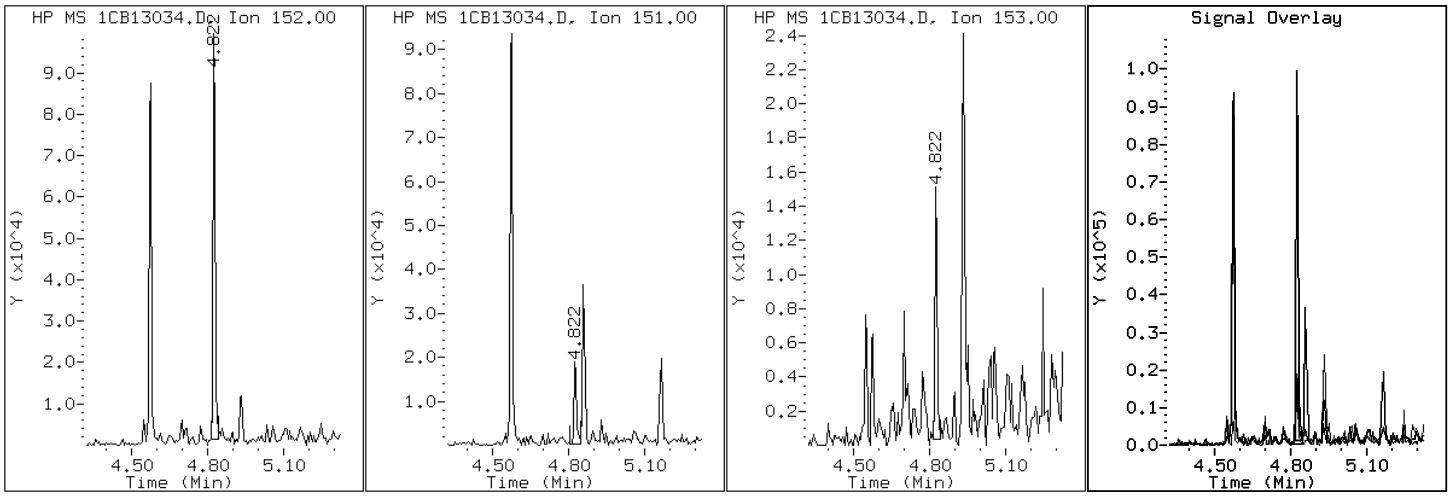
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

5 Acenaphthylene



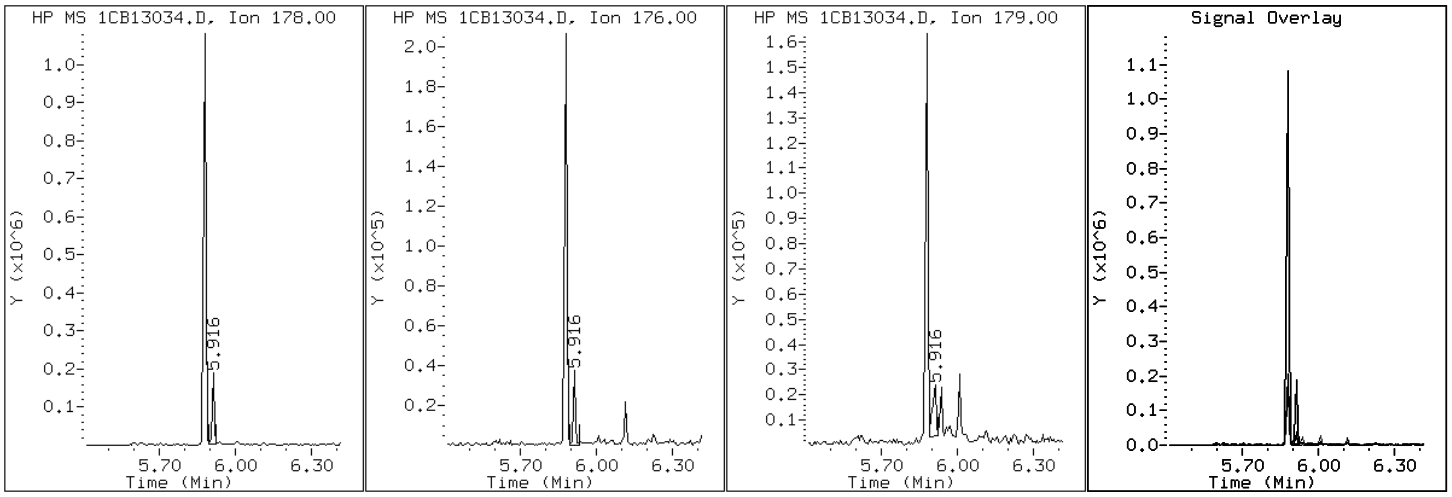
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD | Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a | Operator: SCC

12 Anthracene



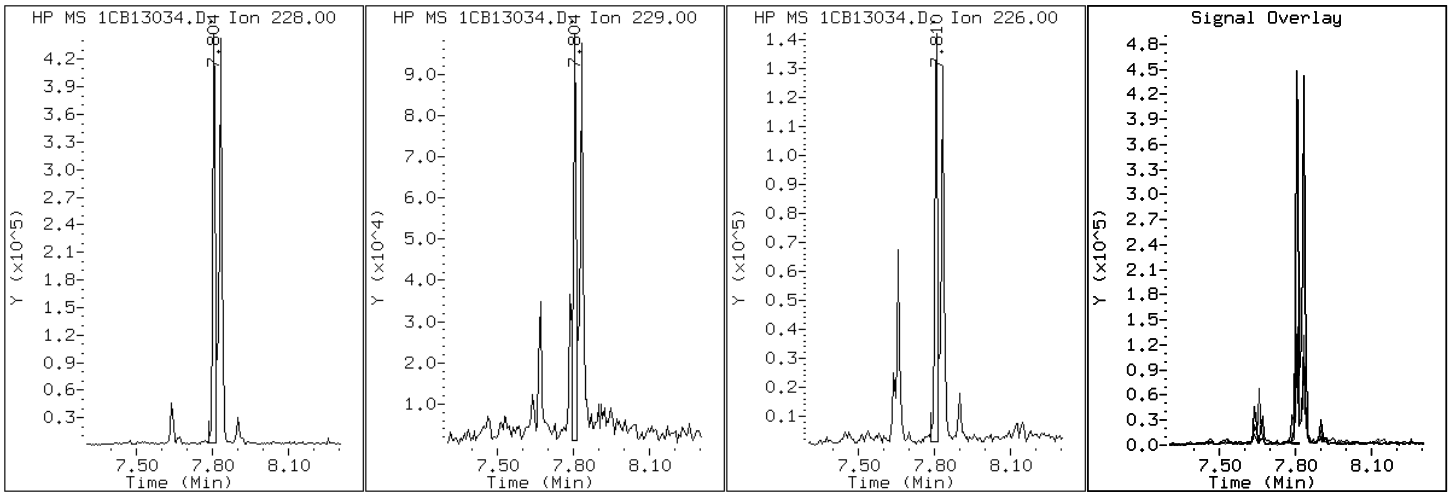
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

17 Benzo(a)anthracene



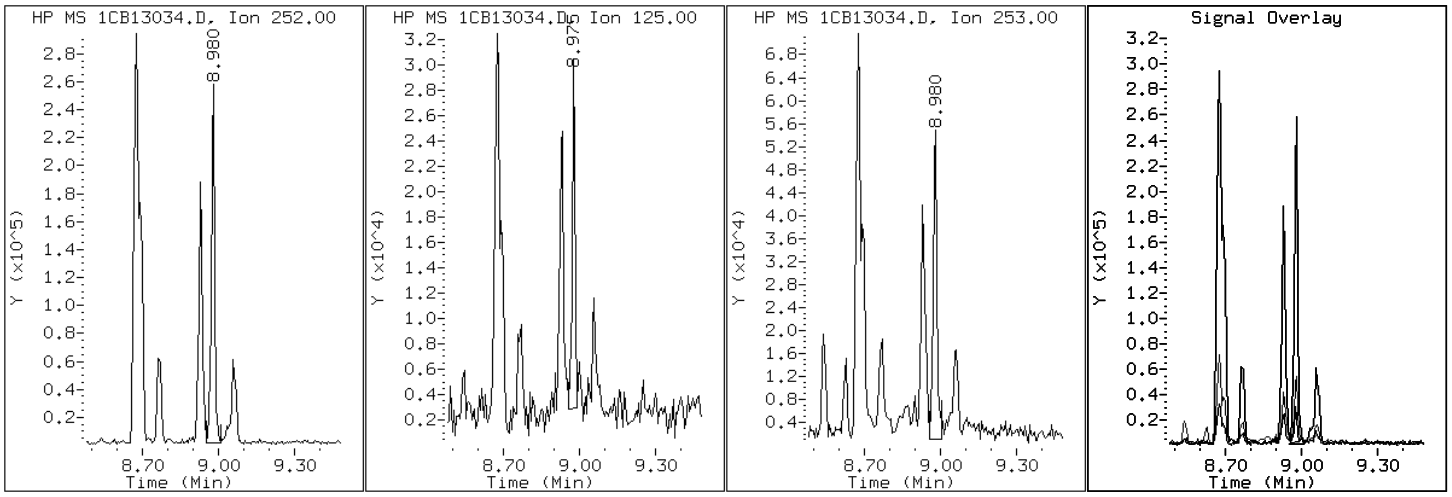
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

22 Benzo(a)pyrene



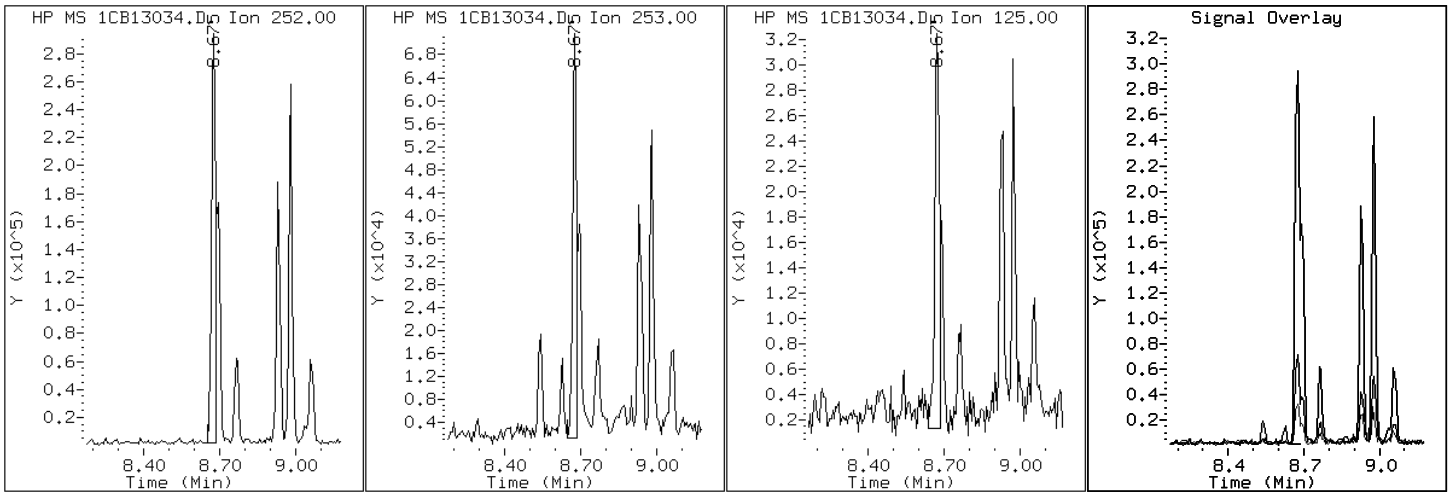
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

20 Benzo(b)fluoranthene



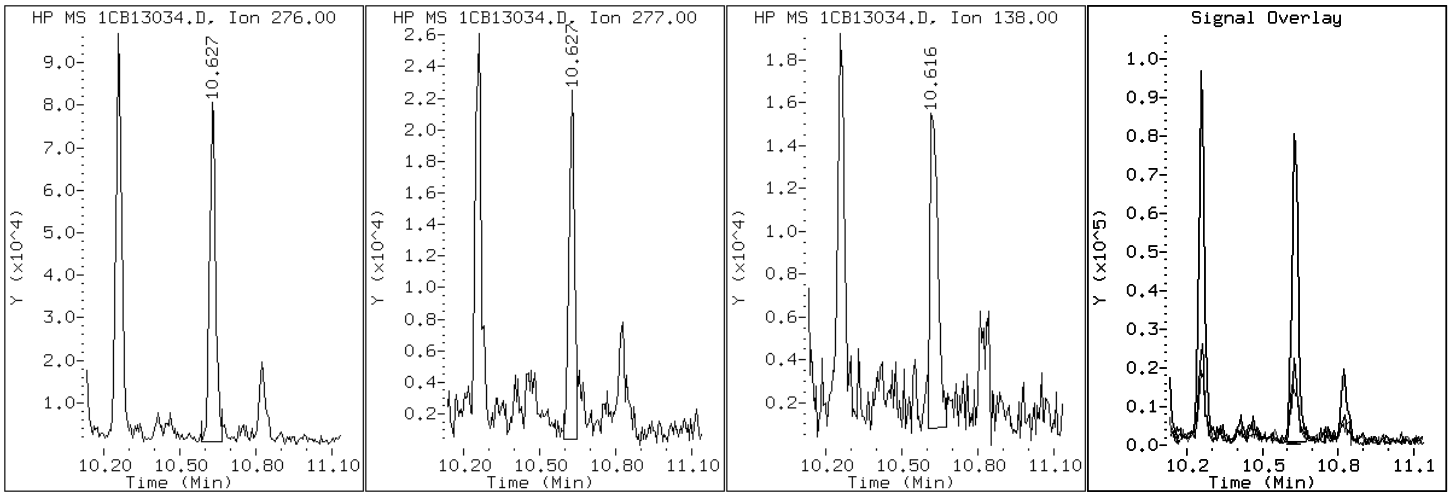
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

26 Benzo(g,h,i)perylene



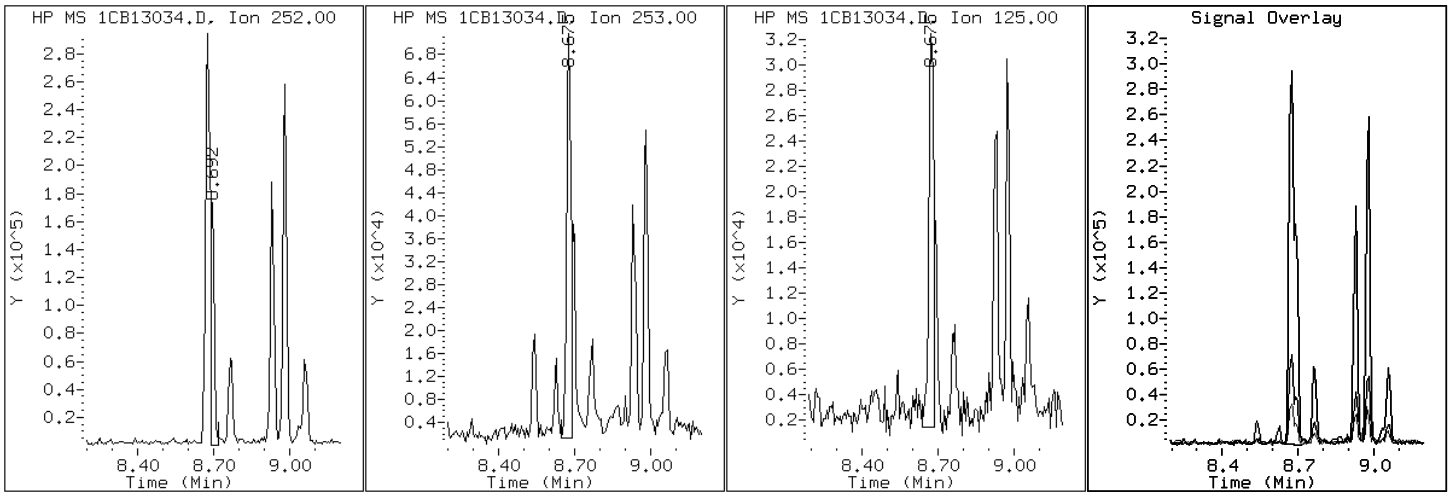
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

21 Benzo(k)fluoranthene



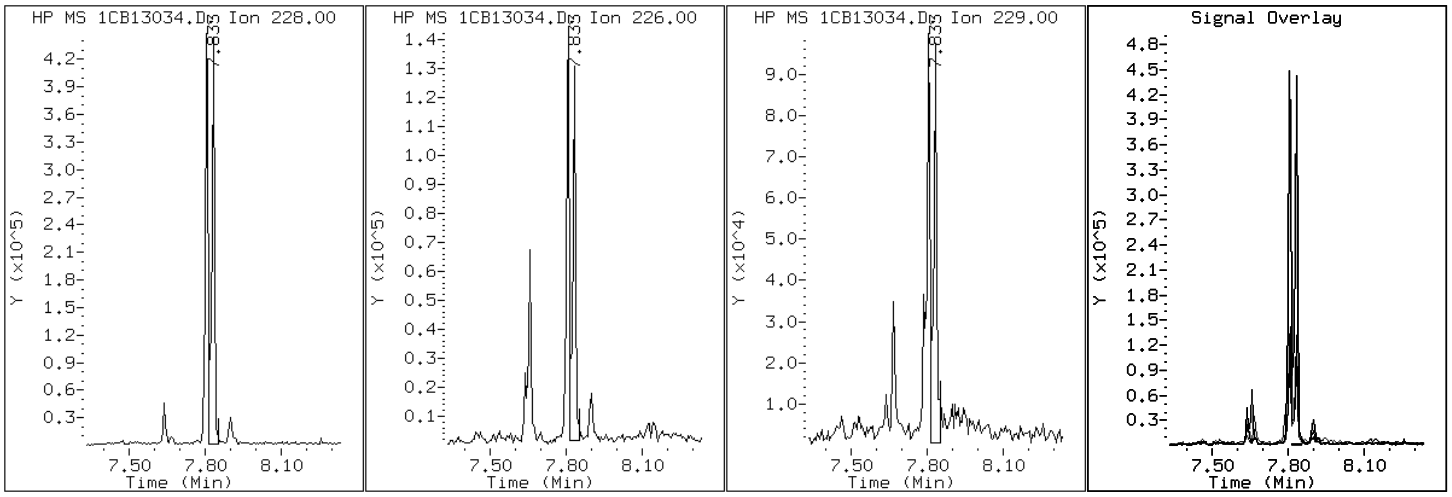
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

19 Chrysene



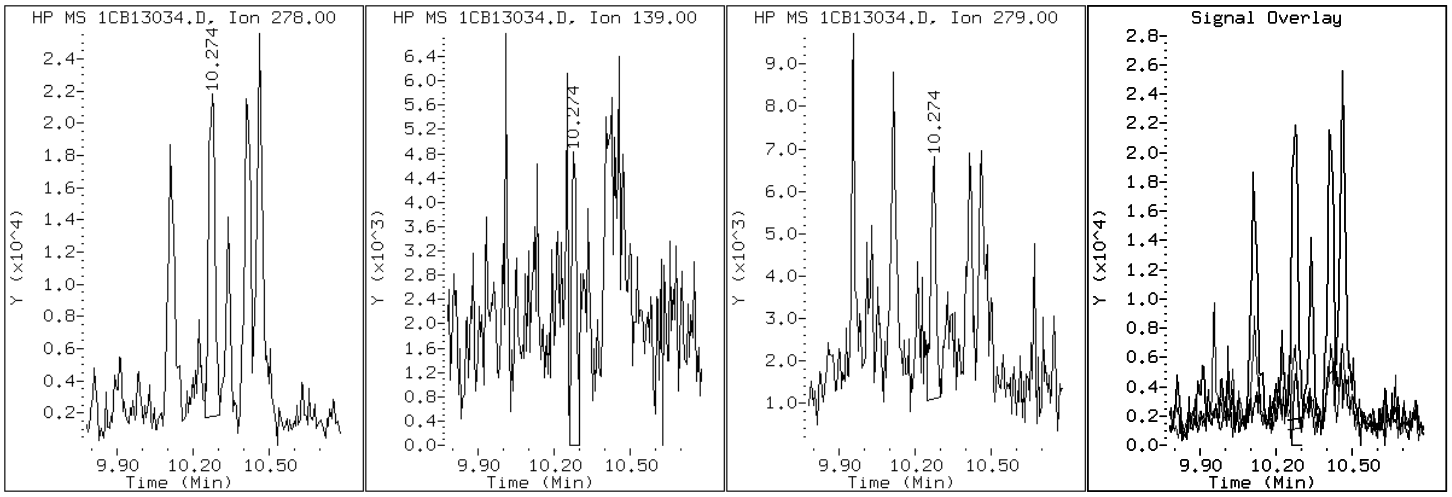
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

25 Dibenzo(a,h)anthracene



Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

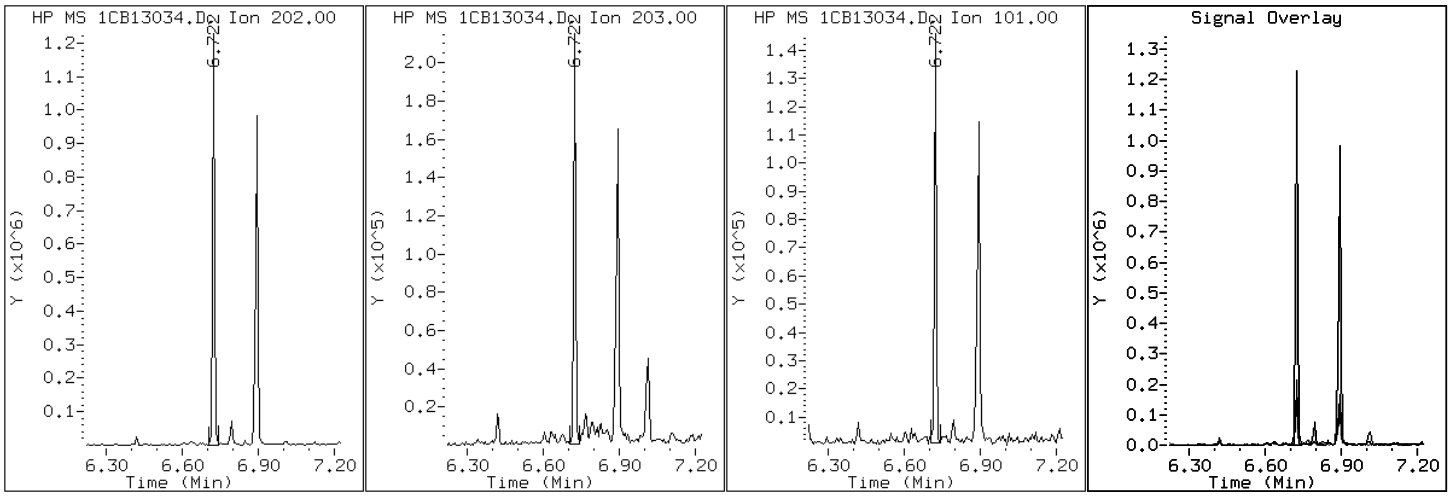
Client ID: CV0748A-CSD

Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a

Operator: SCC

15 Fluoranthene



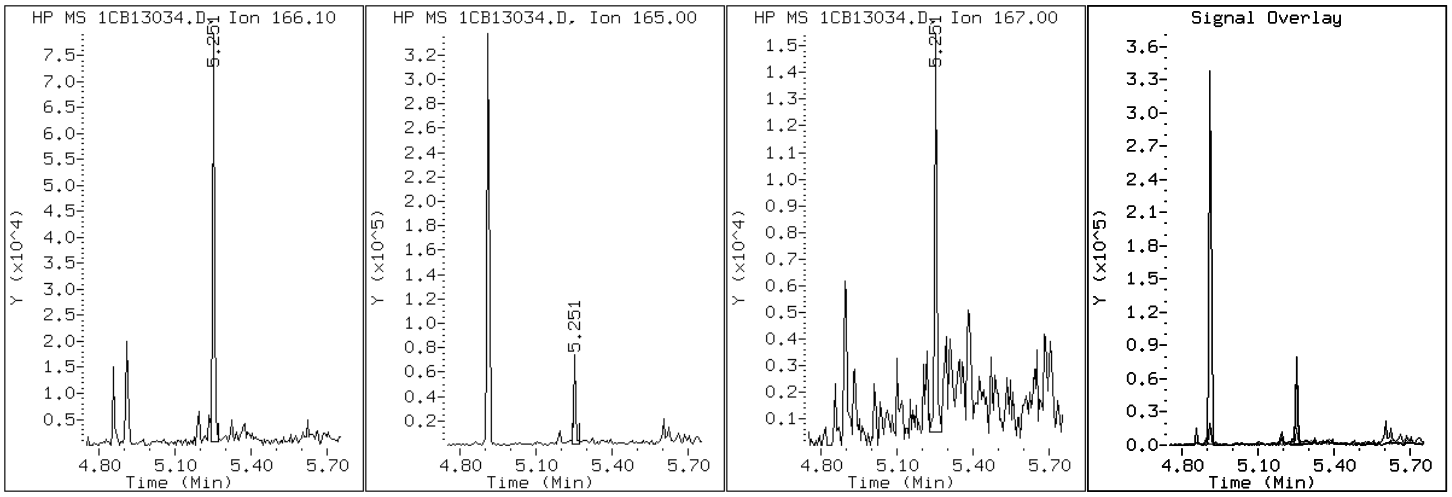
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

9 Fluorene



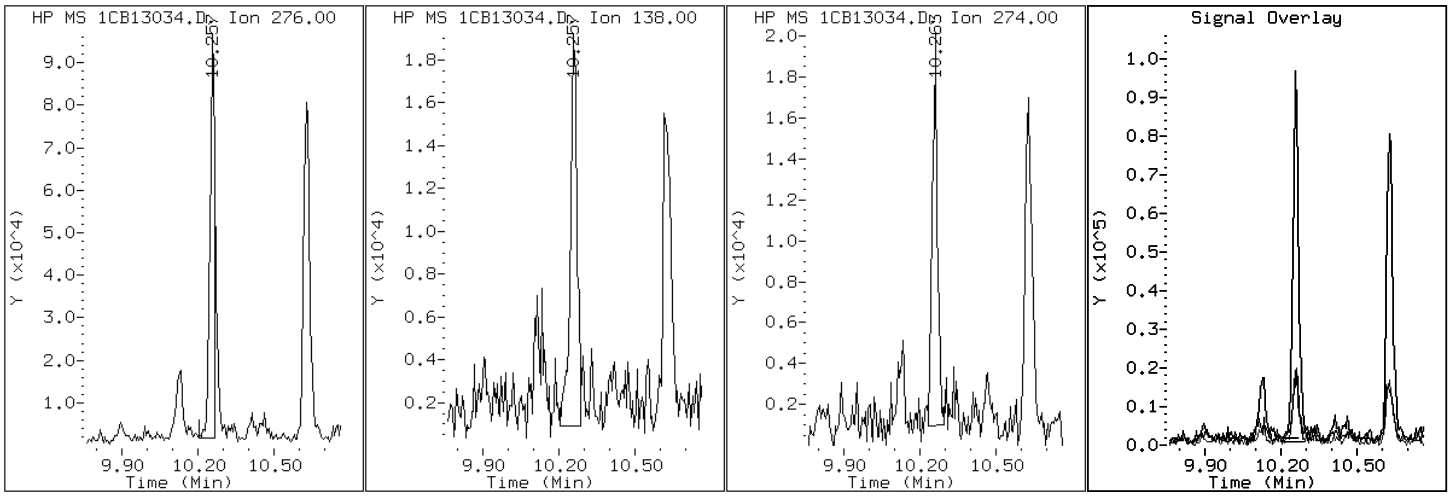
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

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



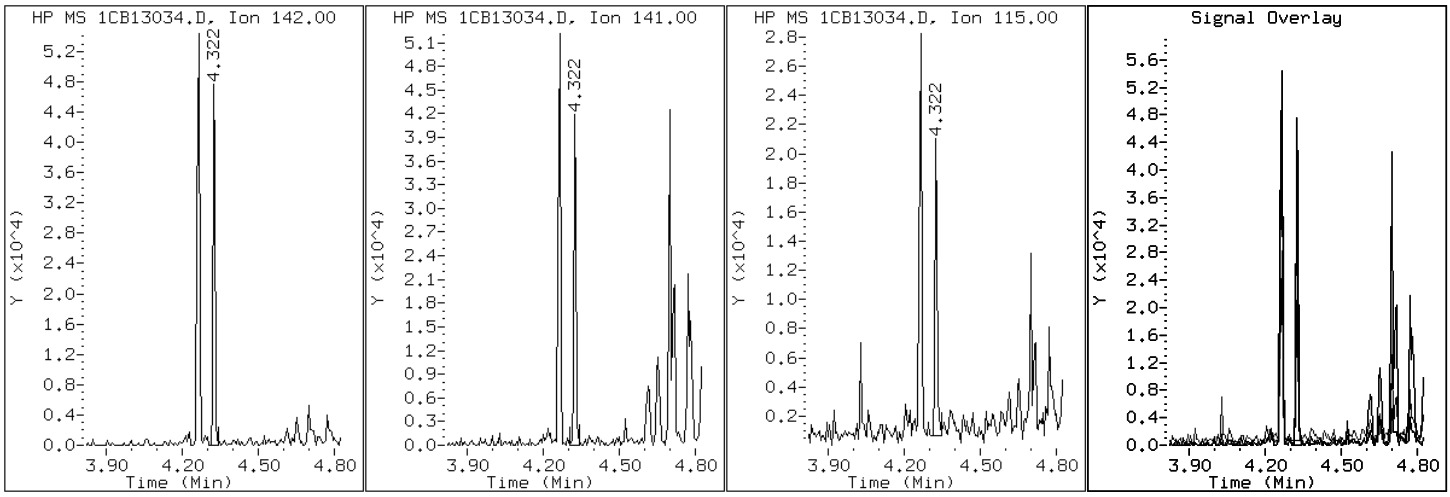
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

4 1-Methylnaphthalene



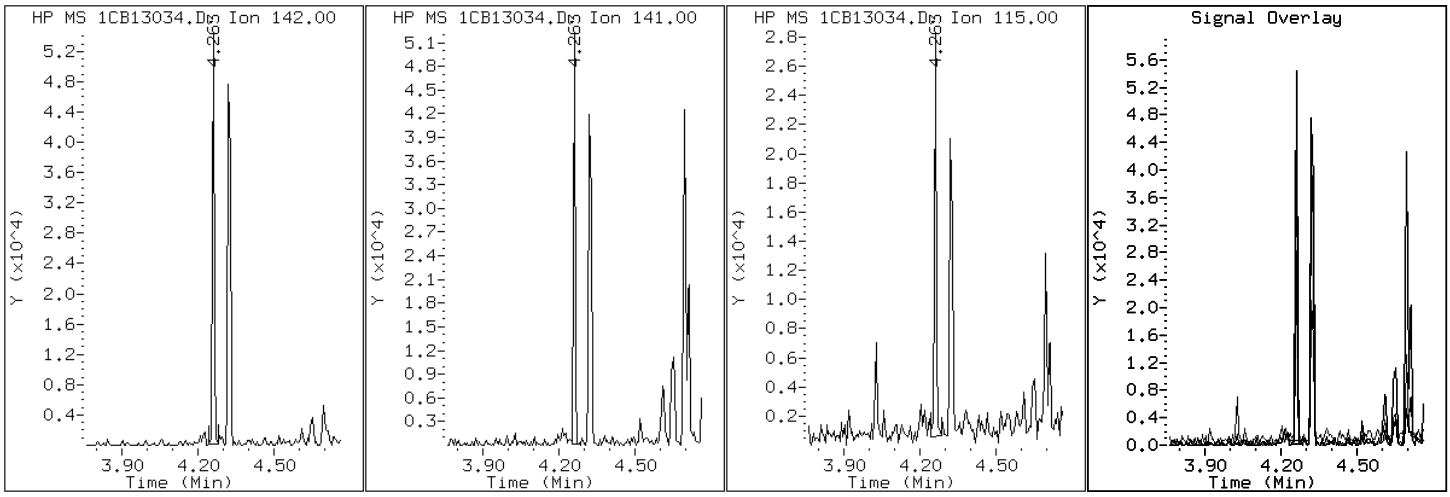
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

3 2-Methylnaphthalene



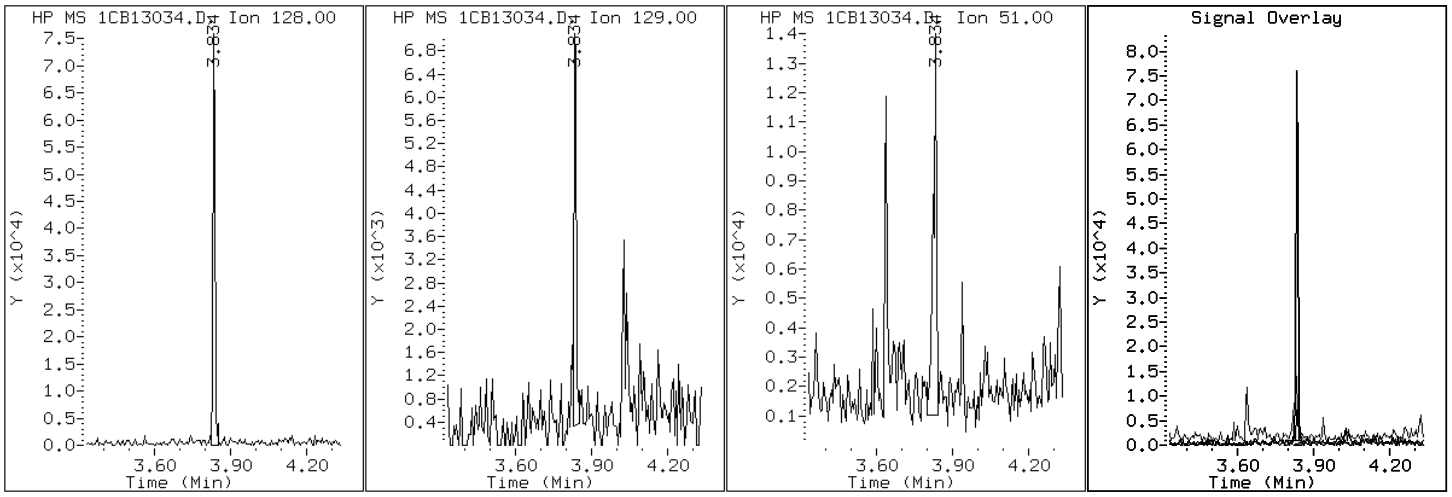
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

2 Naphthalene



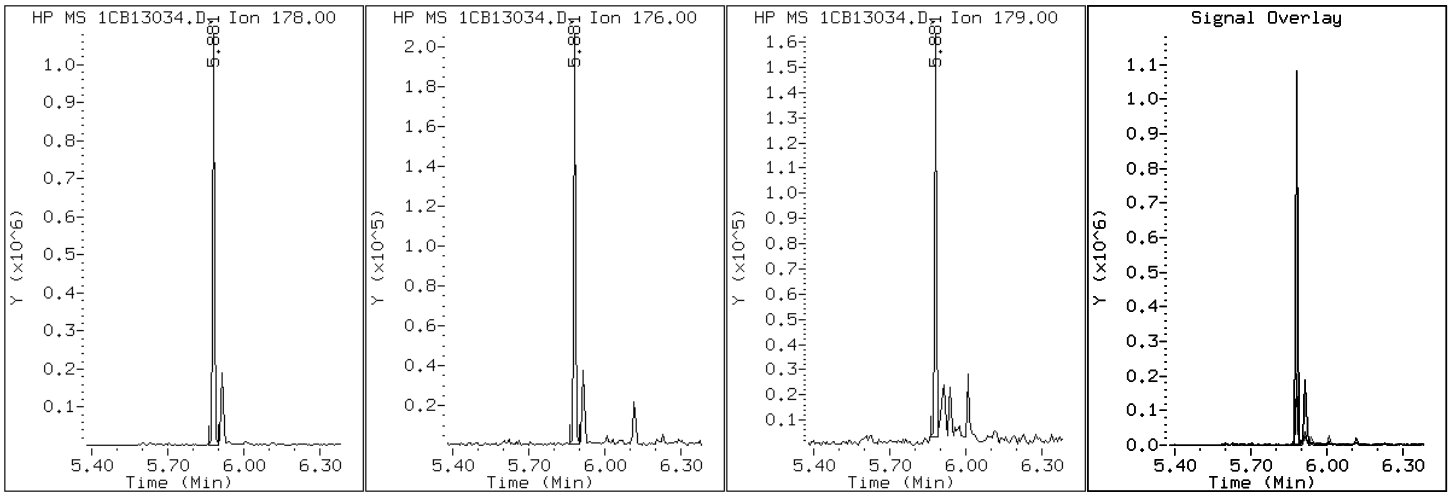
Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

Client ID: CV0748A-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a Operator: SCC

11 Phenanthrene



Data File: 1CB13034.D

Date: 13-FEB-2013 21:22

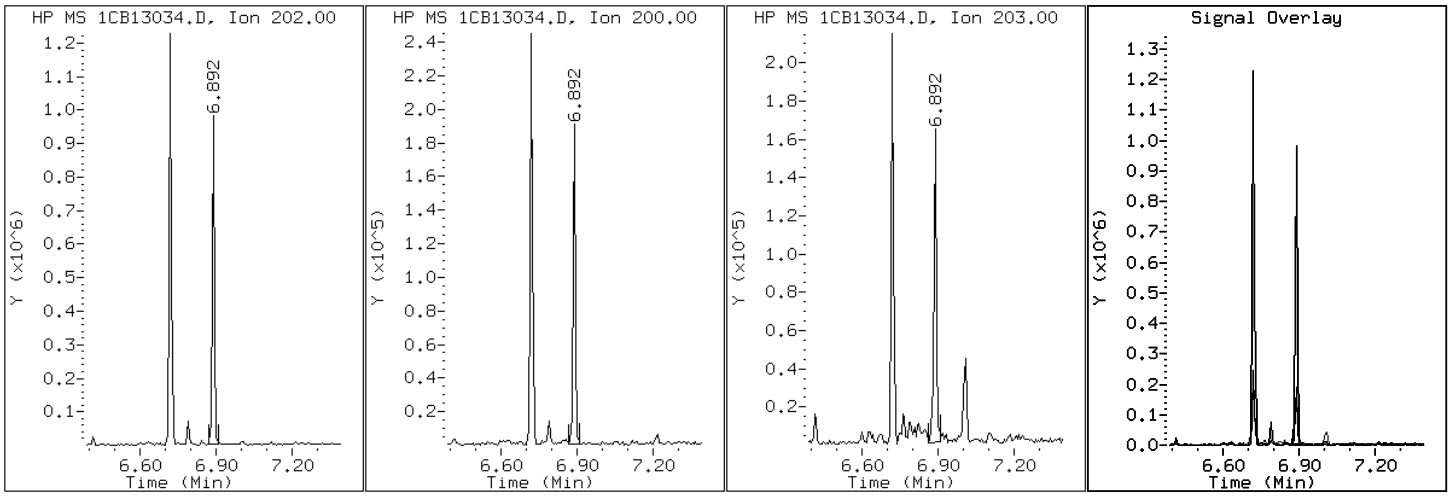
Client ID: CV0748A-CSD

Instrument: BSMC5973.i

Sample Info: 680-87218-a-10-a

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB13034.D
Inj. Date and Time: 13-FEB-2013 21:22
Instrument ID: BSMC5973.i
Client ID: CV0748A-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

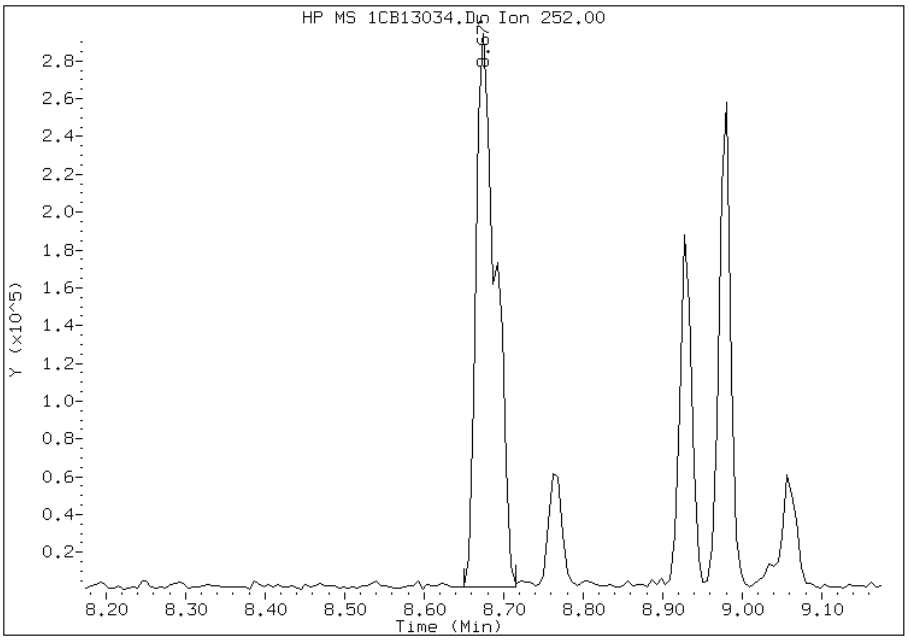
Processing Integration Results

RT: 8.67

Response: 509932

Amount: 7

Conc: 764



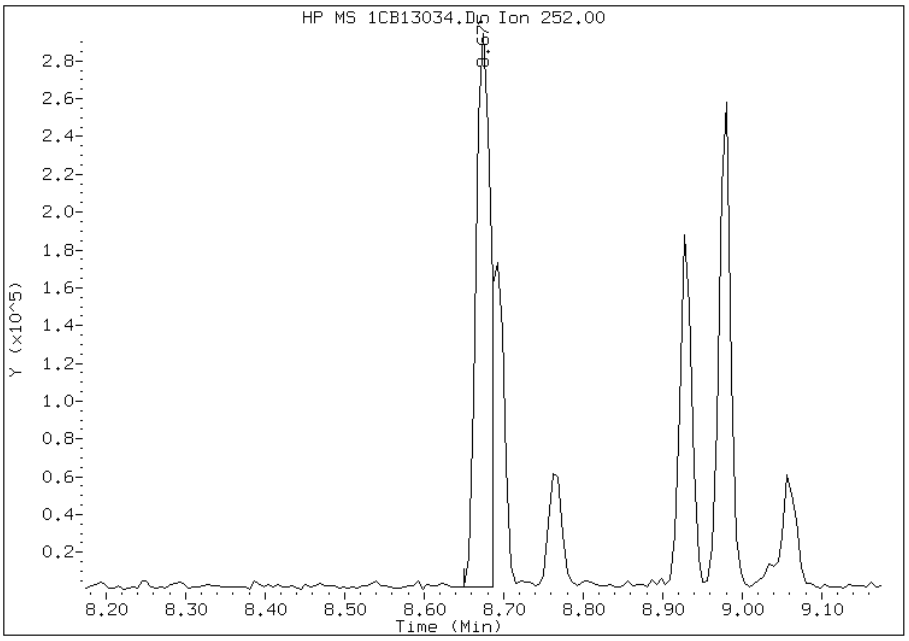
Manual Integration Results

RT: 8.67

Response: 373956

Amount: 5

Conc: 561



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:20
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB13034.D
Inj. Date and Time: 13-FEB-2013 21:22
Instrument ID: BSMC5973.i
Client ID: CV0748A-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

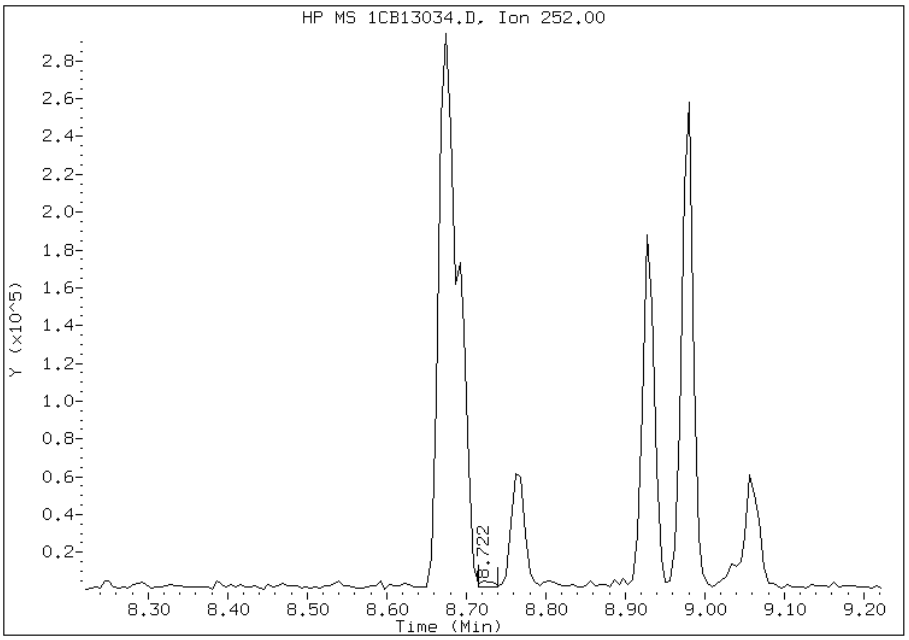
Processing Integration Results

RT: 8.72

Response: 3275

Amount: 0

Conc: 4



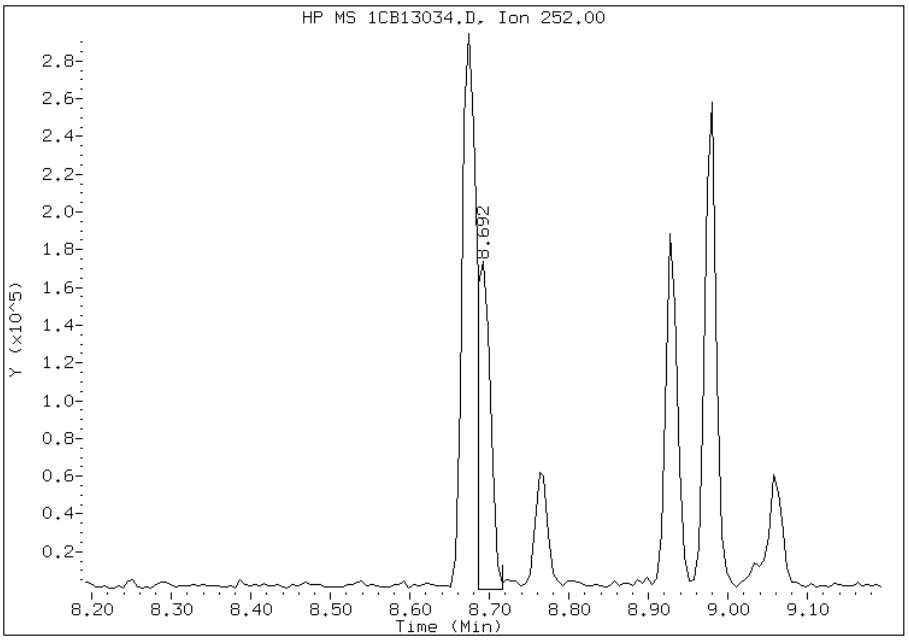
Manual Integration Results

RT: 8.69

Response: 195766

Amount: 3

Conc: 266



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:20
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB13034.D
Inj. Date and Time: 13-FEB-2013 21:22
Instrument ID: BSMC5973.i
Client ID: CV0748A-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

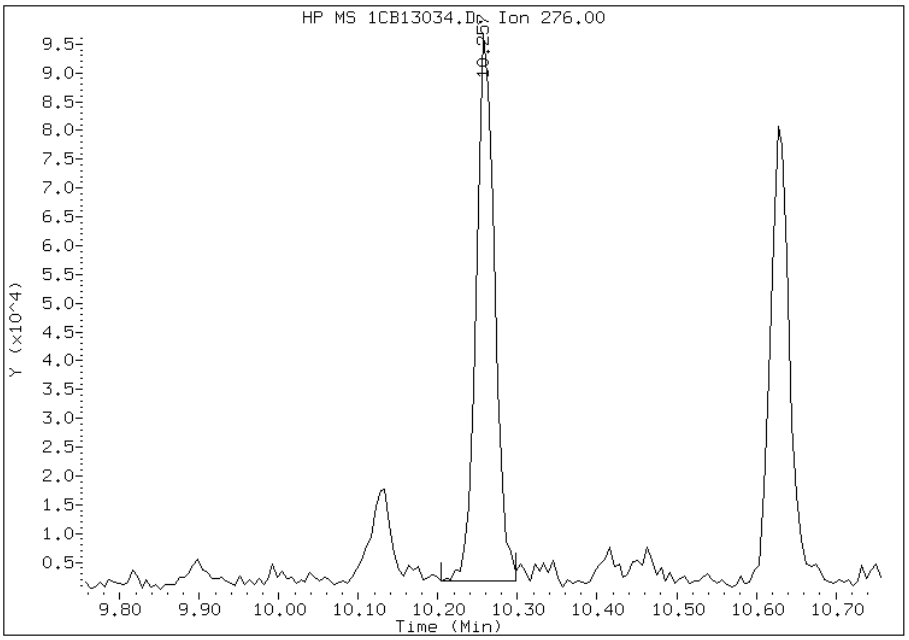
Processing Integration Results

RT: 10.26

Response: 151967

Amount: 2

Conc: 249



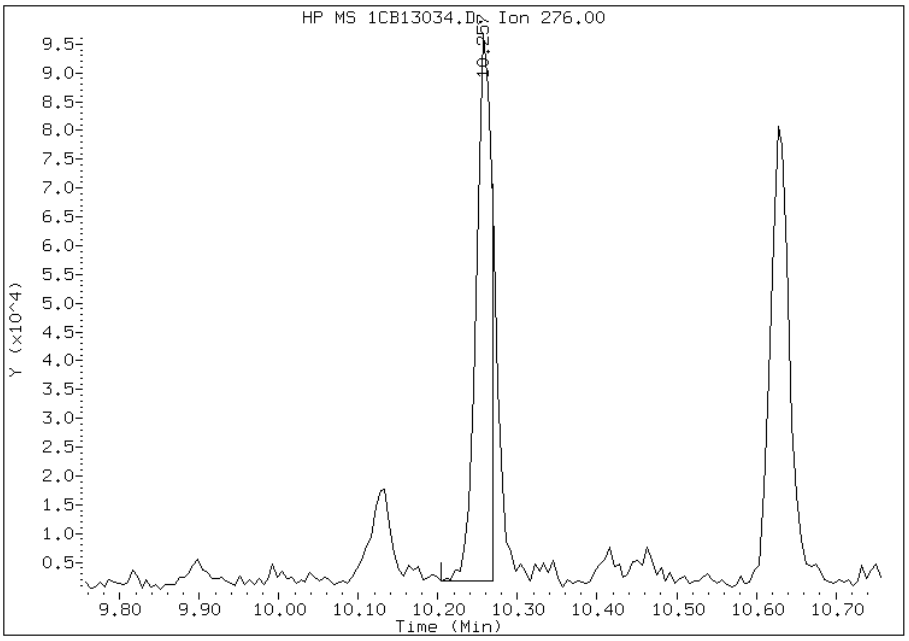
Manual Integration Results

RT: 10.26

Response: 129438

Amount: 2

Conc: 212



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:21
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0748B-CS | Lab Sample ID: 680-87218-11

Matrix: Solid | Lab File ID: 1CB14007.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:35

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 14.98(g) | Date Analyzed: 02/14/2013 16:12

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

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

% Moisture: 28.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134493 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	560	U	560	110
208-96-8	Acenaphthylene	230	U	230	28
120-12-7	Anthracene	50		47	24
56-55-3	Benzo[a]anthracene	300		45	22
50-32-8	Benzo[a]pyrene	220		59	29
205-99-2	Benzo[b]fluoranthene	350		69	34
191-24-2	Benzo[g,h,i]perylene	180		110	25
207-08-9	Benzo[k]fluoranthene	120		45	20
218-01-9	Chrysene	260		51	25
53-70-3	Dibenz(a,h)anthracene	65	J	110	23
206-44-0	Fluoranthene	560		110	23
86-73-7	Fluorene	24	J	110	23
193-39-5	Indeno[1,2,3-cd]pyrene	87	J	110	40
90-12-0	1-Methylnaphthalene	72	J	230	25
91-57-6	2-Methylnaphthalene	79	J	230	40
91-20-3	Naphthalene	67	J	230	25
85-01-8	Phenanthrene	340	B	45	22
129-00-0	Pyrene	400		110	21

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	76		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14007.D
Lab Smp Id: 680-87218-A-11-A Client Smp ID: CV0748B-CS
Inj Date : 14-FEB-2013 16:12
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-A-11-A
Misc Info : 680-87218-A-11-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 15:12 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 7
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	14.980	Weight Extracted
M	28.884	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.821	(1.000)	2293659	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.909	(1.000)	1810447	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.862	(1.000)	3478060	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	97042	1.90422	714.9917
* 18 Chrysene-d12	240	7.810	7.815	(1.000)	4335563	40.0000	
* 23 Perylene-d12	264	9.027	9.039	(1.000)	4524617	40.0000	
2 Naphthalene	128	3.833	3.833	(1.005)	10832	0.17822	66.9173(Q)
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	8287	0.20969	78.7344
4 1-Methylnaphthalene	142	4.322	4.321	(1.133)	6876	0.19130	71.8301
9 Fluorene	166	5.245	5.251	(1.070)	3662	0.06315	23.7116
11 Phenanthrene	178	5.874	5.880	(1.002)	94938	0.91447	343.3619
12 Anthracene	178	5.910	5.909	(1.008)	12572	0.13441	50.4669
13 Carbazole	167	6.016	6.015	(1.026)	14597	0.17966	67.4583
15 Fluoranthene	202	6.715	6.721	(1.145)	151906	1.49743	562.2516

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
16 Pyrene	202	6.886	6.886	(0.882)	121453	1.05224	395.0923
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	96290	0.80538	302.4002
19 Chrysene	228	7.827	7.833	(1.002)	84885	0.68734	258.0797
20 Benzo(b)fluoranthene	252	8.662	8.674	(0.960)	102002	0.91953	345.2612
21 Benzo(k)fluoranthene	252	8.686	8.697	(0.962)	38592	0.31579	118.5729(Q)
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	62916	0.59605	223.8029
24 Indeno(1,2,3-cd)pyrene	276	10.239	10.268	(1.134)	23435	0.23115	86.7924(M)
25 Dibenzo(a,h)anthracene	278	10.251	10.286	(1.136)	16457	0.17213	64.6320(M)
26 Benzo(g,h,i)perylene	276	10.615	10.639	(1.176)	50217	0.48761	183.0878

QC Flag Legend

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

Data File: 1CB14007.D

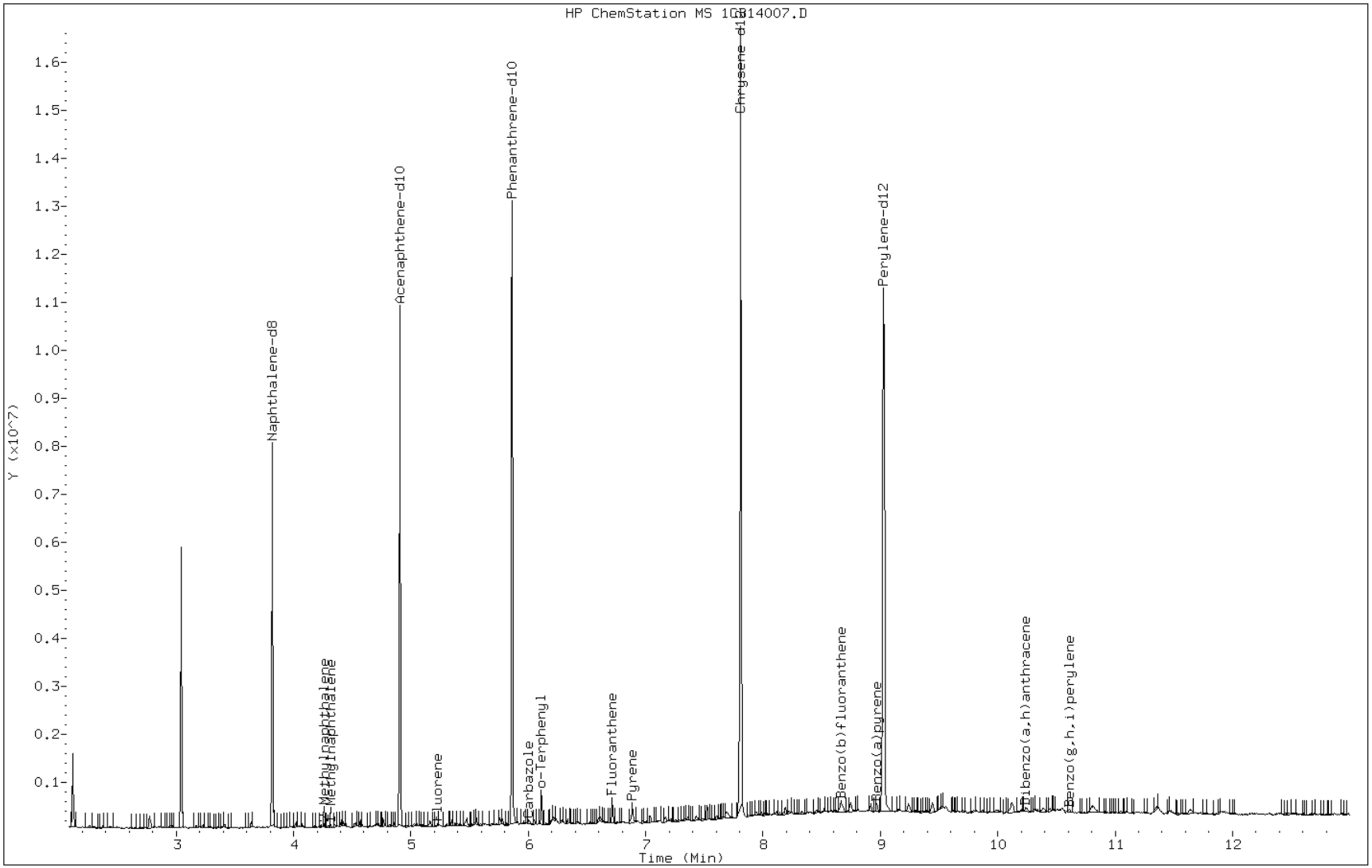
Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A

Operator: SCC



Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

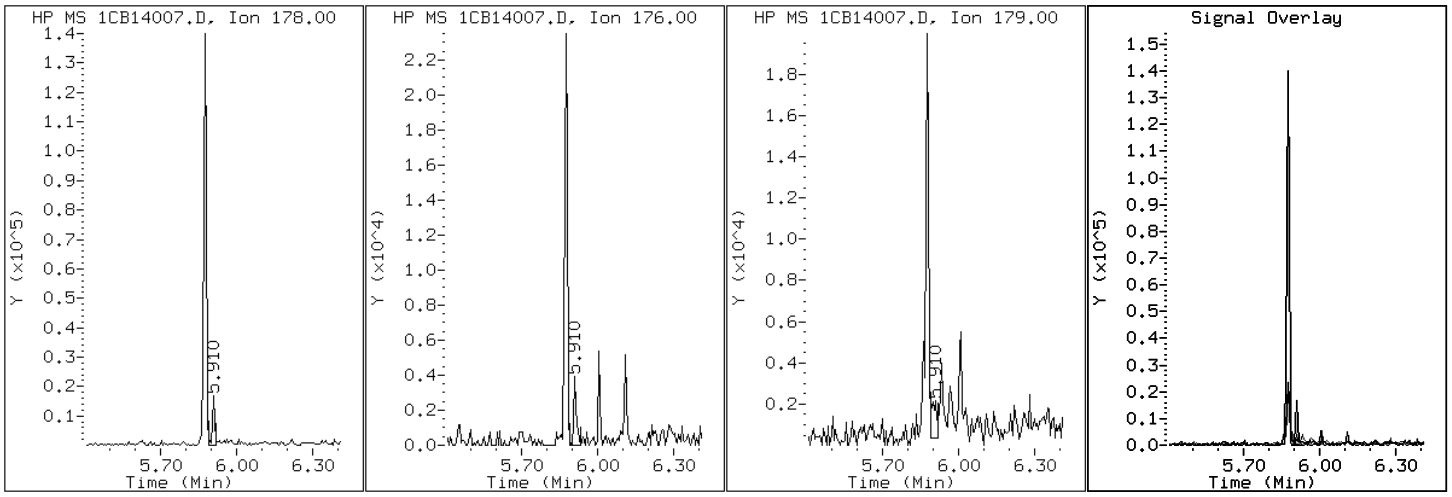
Client ID: CV0748B-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A

Operator: SCC

12 Anthracene



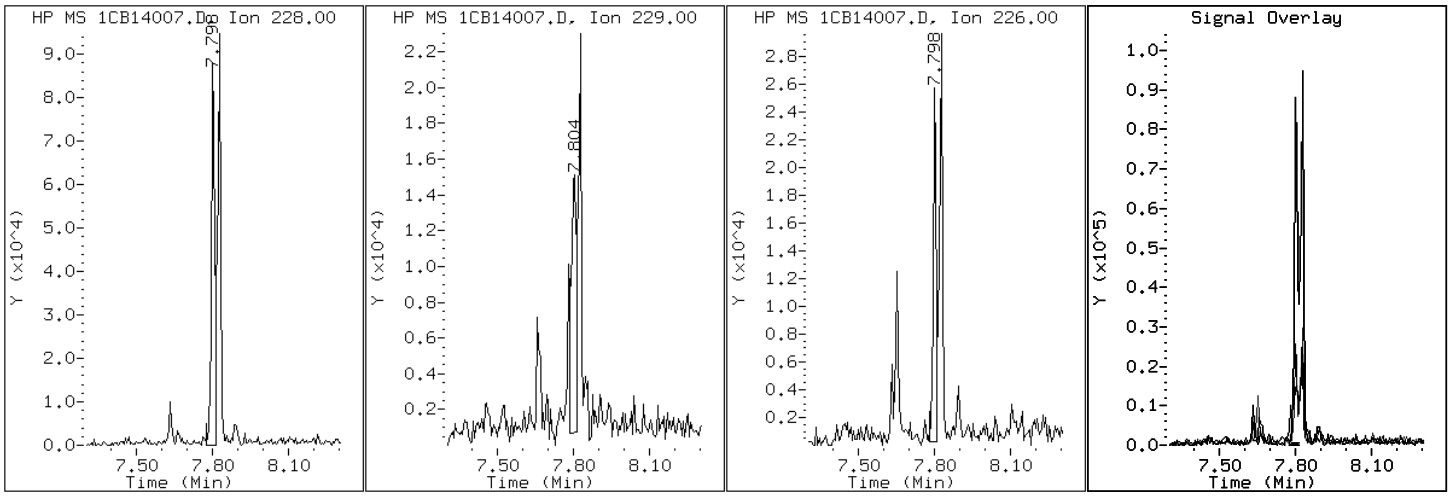
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

17 Benzo(a)anthracene



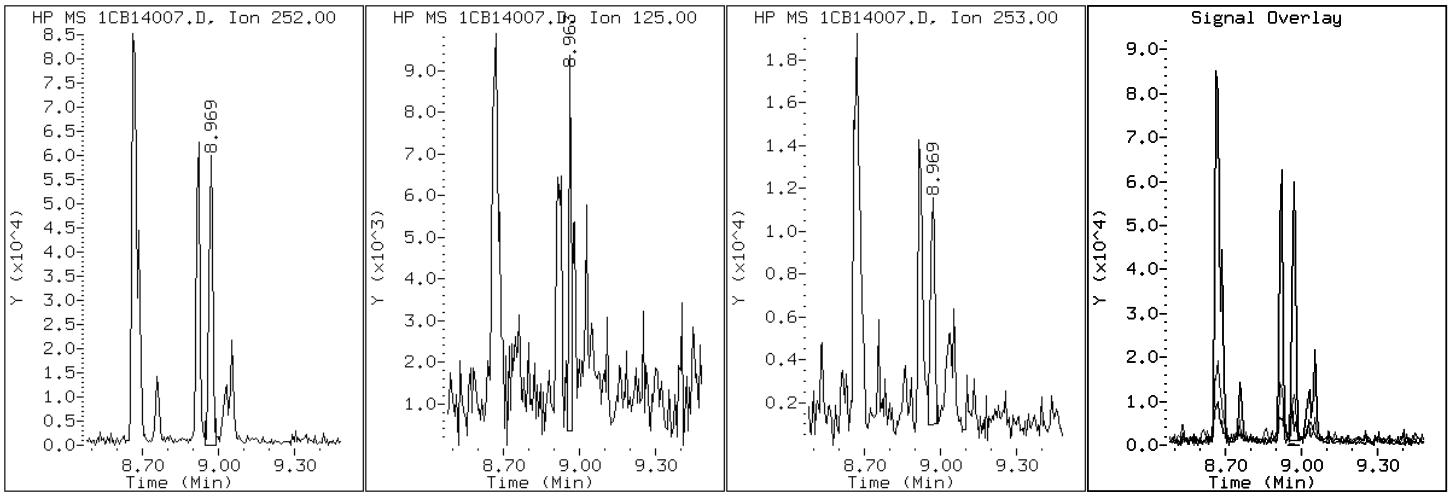
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

22 Benzo(a)pyrene



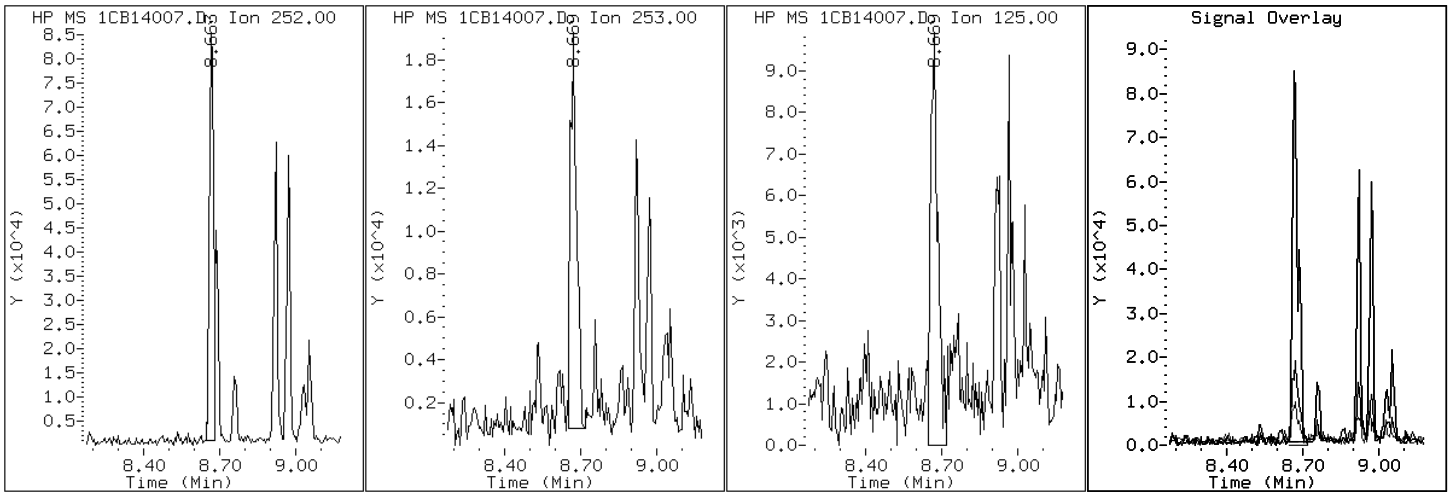
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

20 Benzo(b)fluoranthene



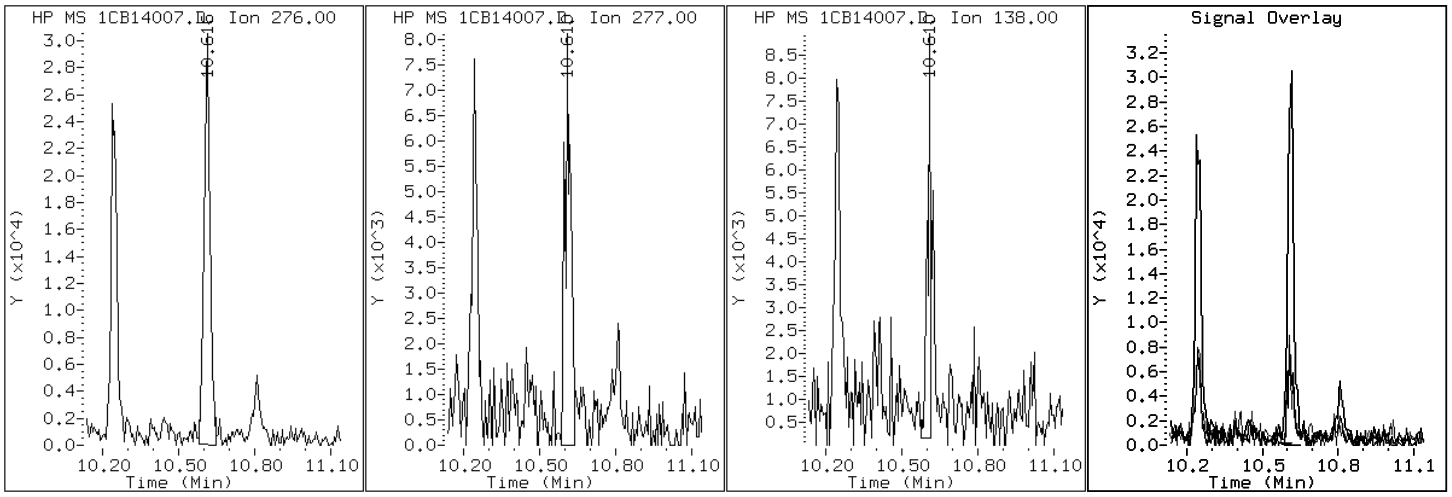
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

26 Benzo(g,h,i)perylene



Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

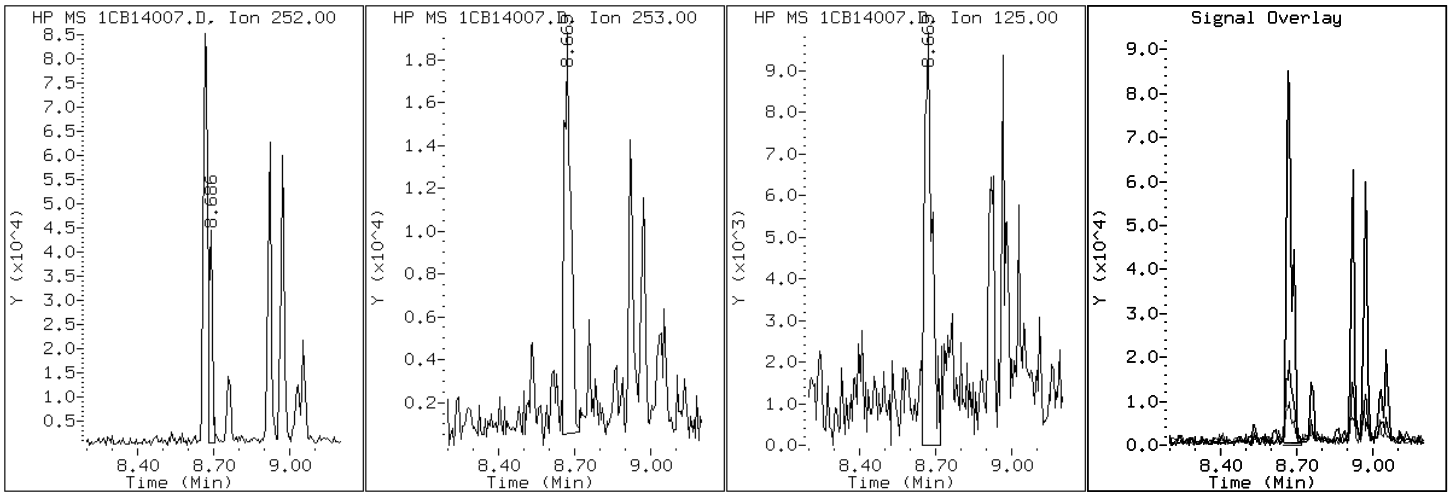
Client ID: CV0748B-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A

Operator: SCC

21 Benzo(k)fluoranthene



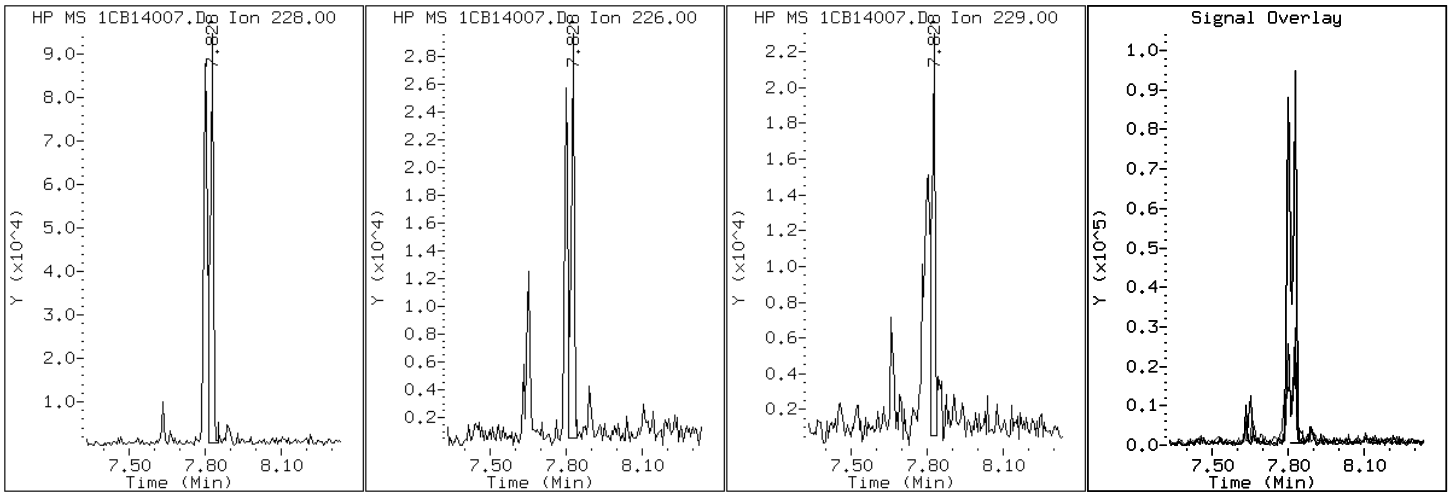
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

19 Chrysene



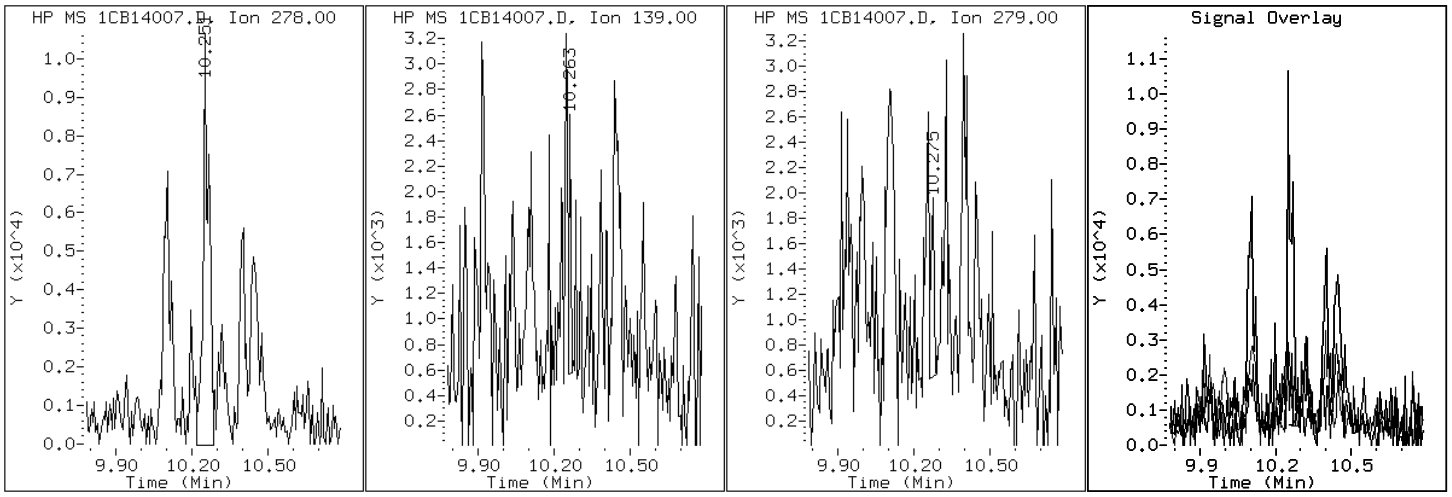
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

25 Dibenzo(a,h)anthracene



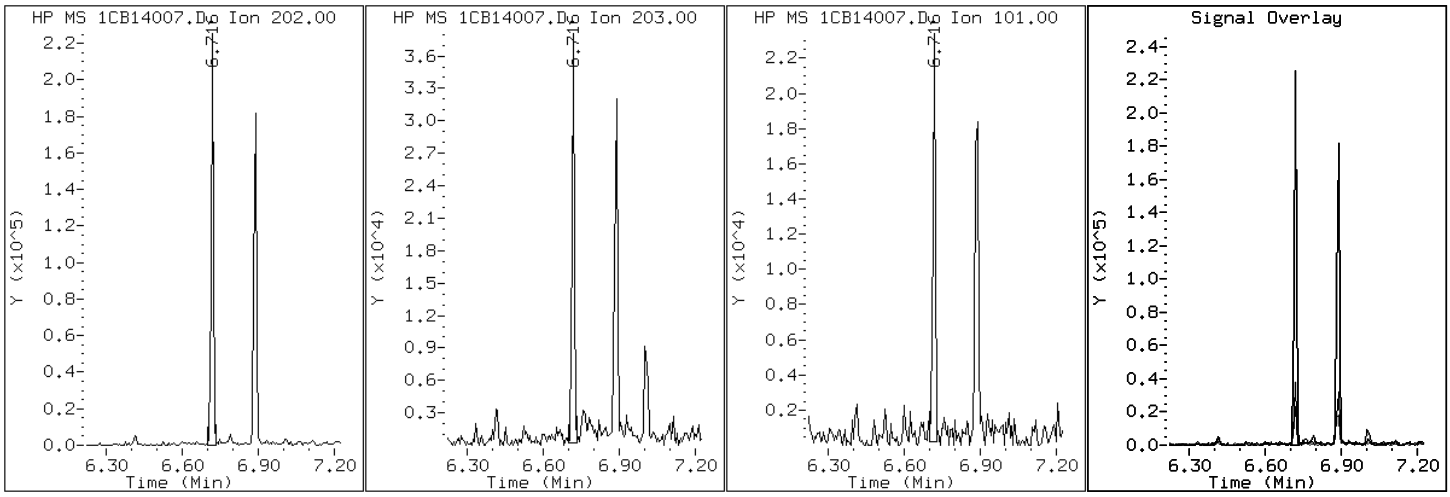
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

15 Fluoranthene



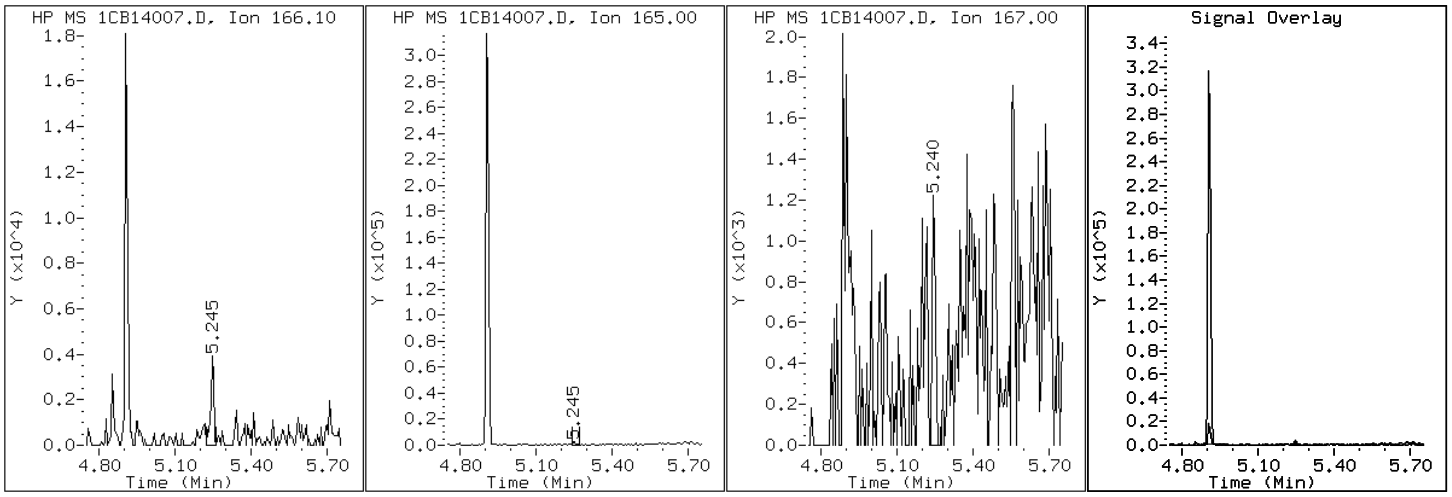
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

9 Fluorene



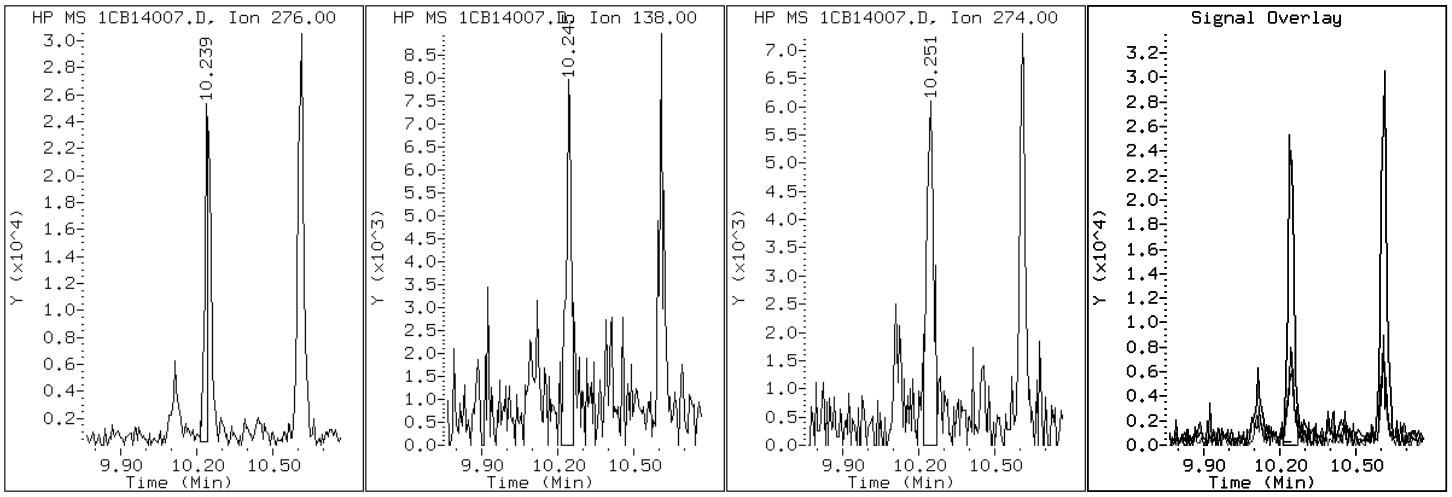
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

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



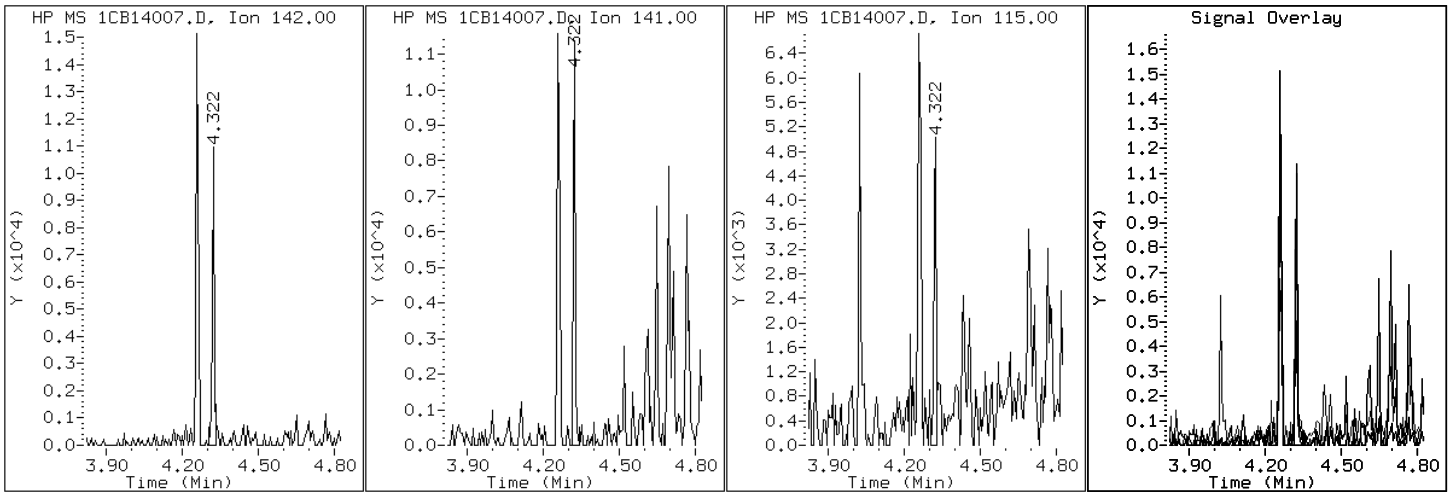
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

4 1-Methylnaphthalene



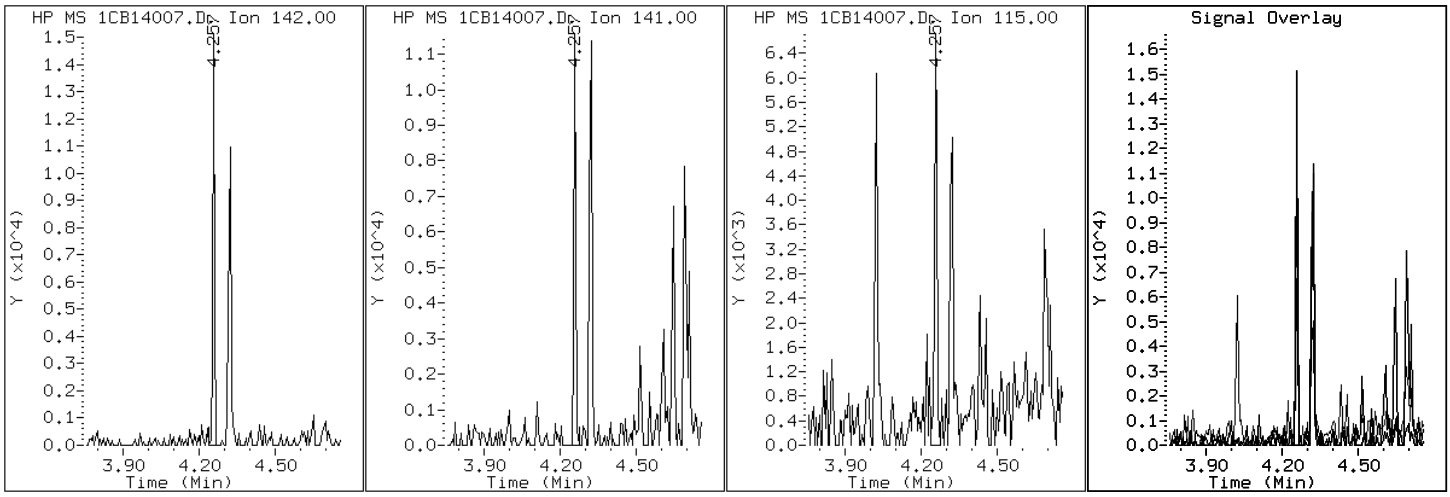
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

3 2-Methylnaphthalene



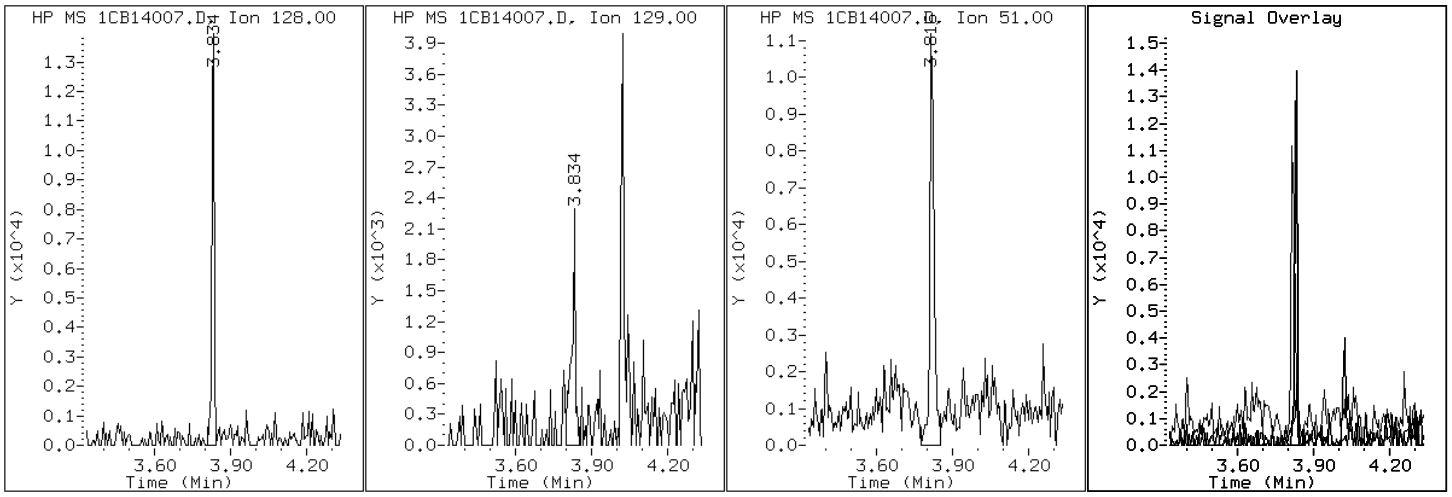
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

2 Naphthalene



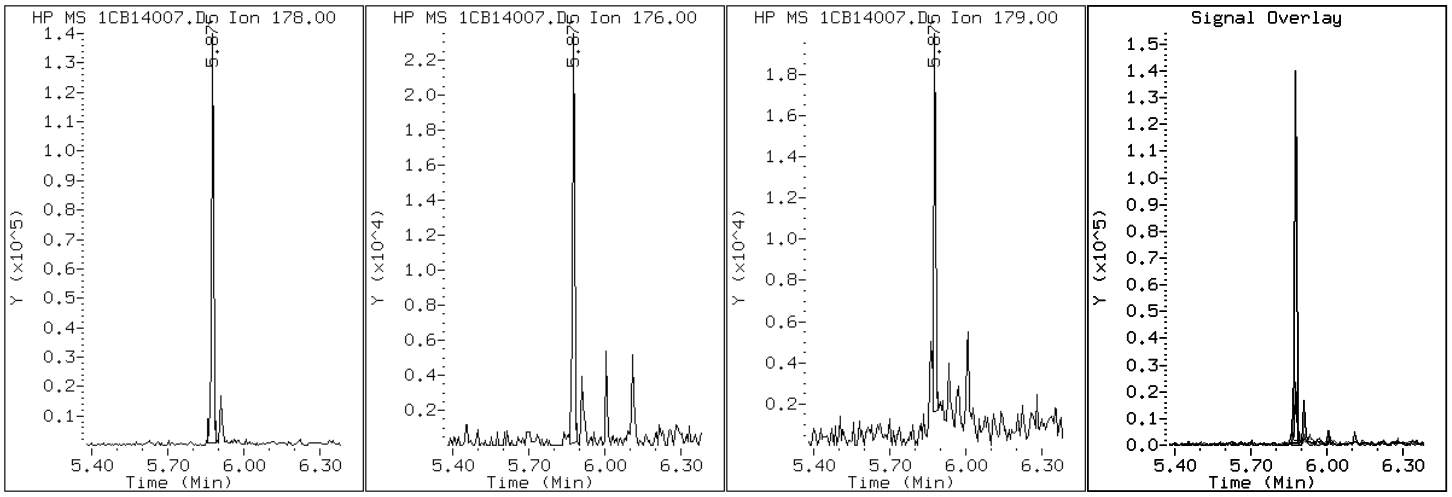
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

11 Phenanthrene



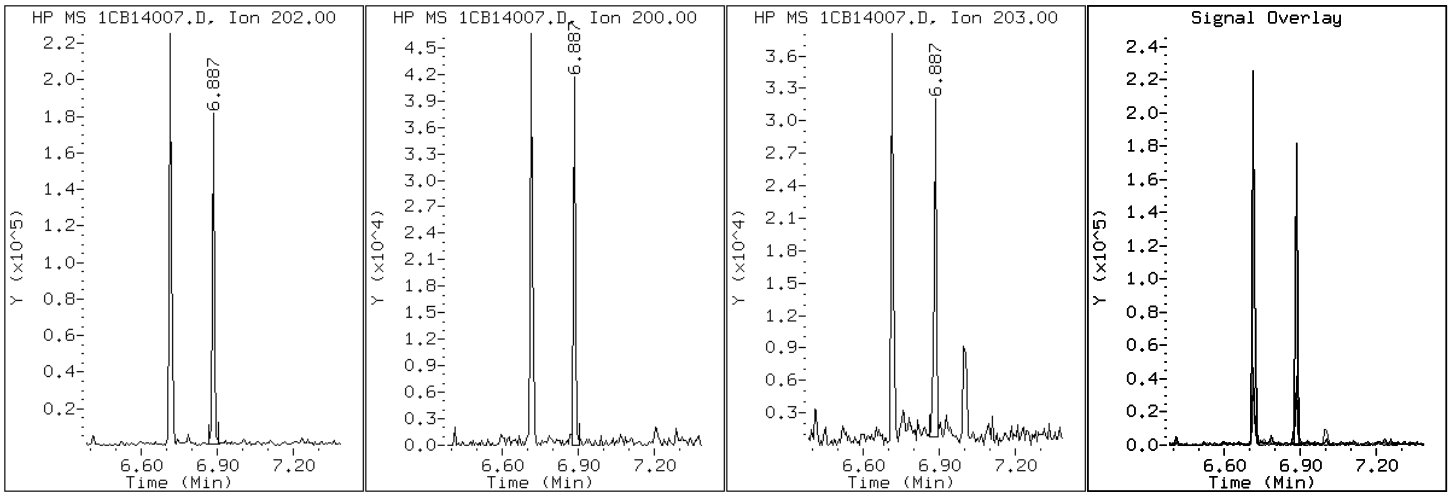
Data File: 1CB14007.D

Date: 14-FEB-2013 16:12

Client ID: CV0748B-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-11-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB14007.D
Inj. Date and Time: 14-FEB-2013 16:12
Instrument ID: BSMC5973.i
Client ID: CV0748B-CS
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 02/14/2013

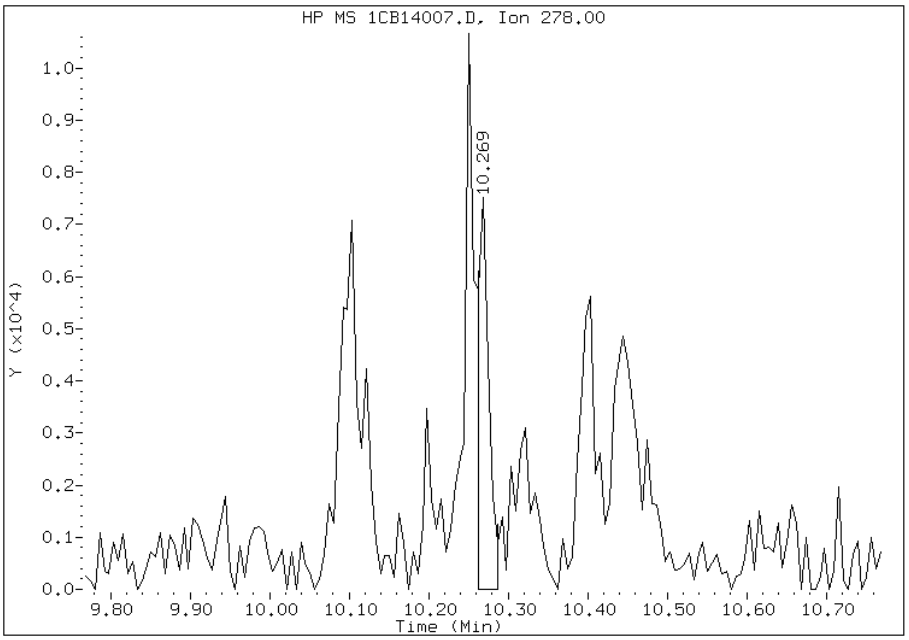
Processing Integration Results

RT: 10.27

Response: 7176

Amount: 0

Conc: 28



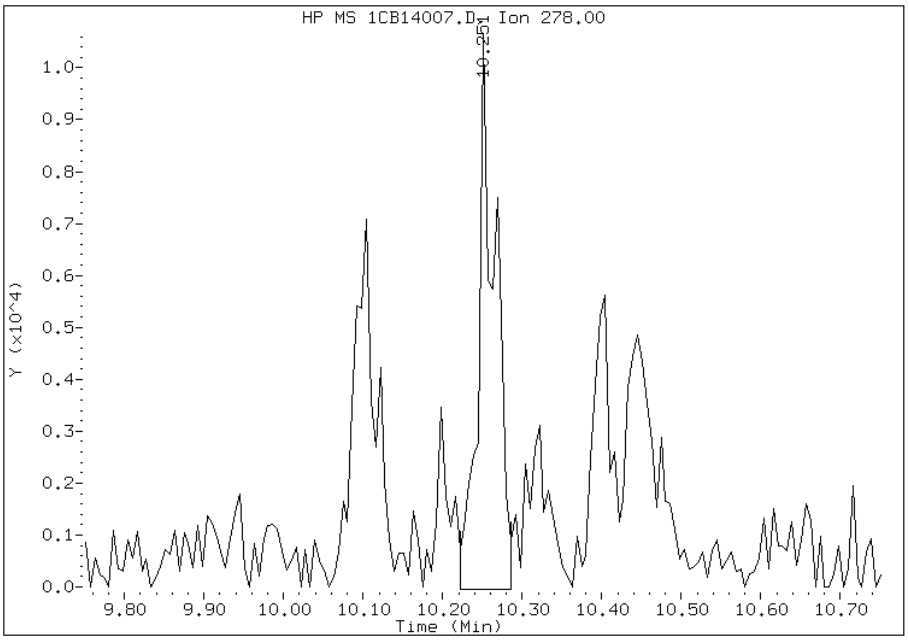
Manual Integration Results

RT: 10.25

Response: 16457

Amount: 0

Conc: 65



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 17:28
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB14007.D
Inj. Date and Time: 14-FEB-2013 16:12
Instrument ID: BSMC5973.i
Client ID: CV0748B-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

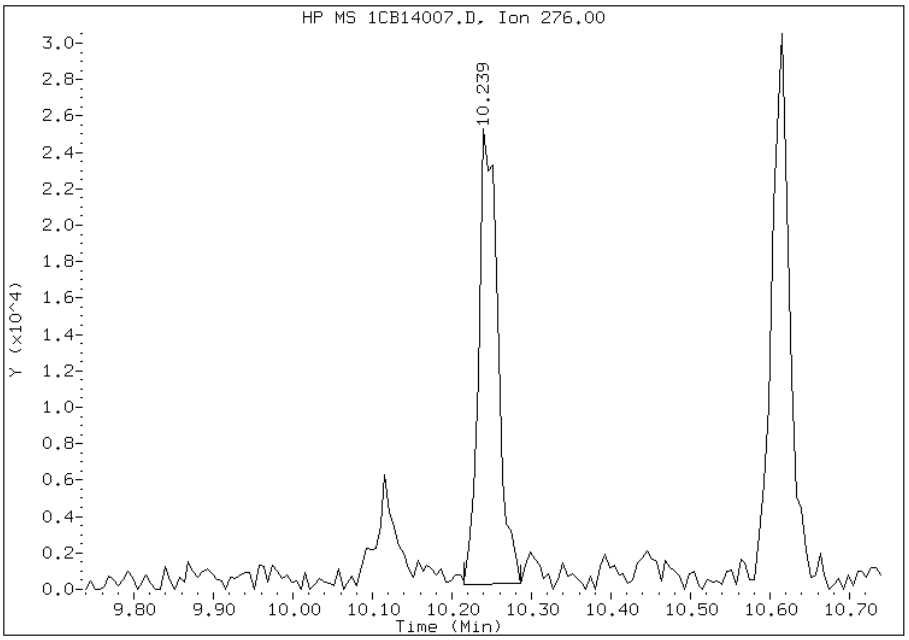
Processing Integration Results

RT: 10.24

Response: 41620

Amount: 0

Conc: 154



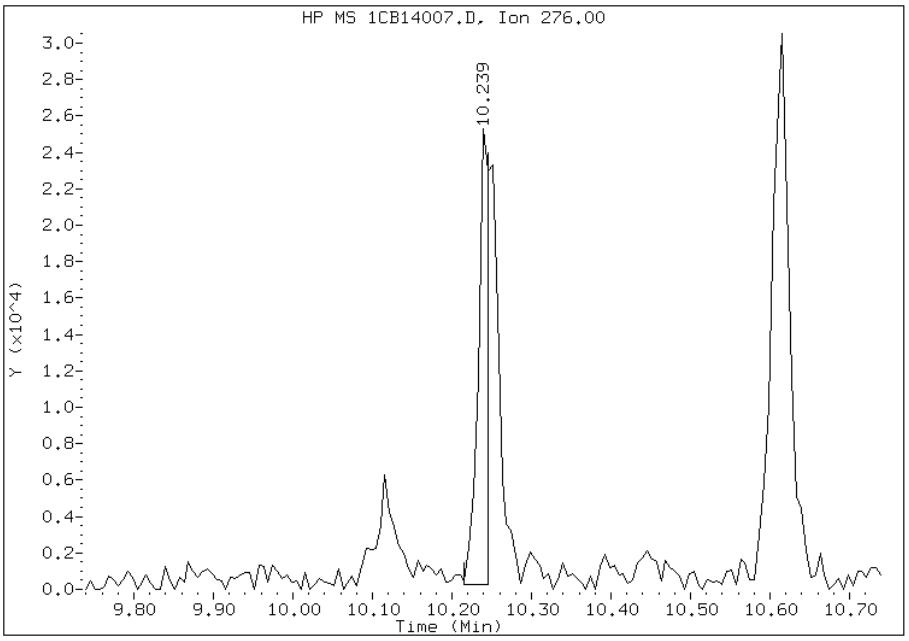
Manual Integration Results

RT: 10.24

Response: 23435

Amount: 0

Conc: 87



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 17:29
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0748B-CSD | Lab Sample ID: 680-87218-12

Matrix: Solid | Lab File ID: 1CB13036.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:37

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.10(g) | Date Analyzed: 02/13/2013 21:58

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

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

% Moisture: 34.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	36	J	61	7.6
120-12-7	Anthracene	41		13	6.4
56-55-3	Benzo[a]anthracene	210		12	5.9
50-32-8	Benzo[a]pyrene	180		16	7.9
205-99-2	Benzo[b]fluoranthene	280		19	9.3
191-24-2	Benzo[g,h,i]perylene	120		30	6.7
207-08-9	Benzo[k]fluoranthene	120		12	5.5
218-01-9	Chrysene	220		14	6.8
53-70-3	Dibenz(a,h)anthracene	43		30	6.2
206-44-0	Fluoranthene	380		30	6.1
86-73-7	Fluorene	16	J	30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	100		30	11
90-12-0	1-Methylnaphthalene	67		61	6.7
91-57-6	2-Methylnaphthalene	66		61	11
91-20-3	Naphthalene	58	J	61	6.7
85-01-8	Phenanthrene	170	B	12	5.9
129-00-0	Pyrene	330		30	5.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	96		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13036.D
Lab Smp Id: 680-87218-A-12-A Client Smp ID: CV0748B-CSD
Inj Date : 13-FEB-2013 21:58
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-12-a
Misc Info : 680-87218-A-12-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 36
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	34.655	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2120092	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1641993	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3026160	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	425615	9.59886	972.8178
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	2958954	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	2717148	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	32133	0.57197	57.9674
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	23616	0.64649	65.5203
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	22075	0.66445	67.3401
5 Acenaphthylene	152	4.821	4.821	(0.982)	23112	0.35380	35.8564
9 Fluorene	166	5.251	5.251	(1.069)	8211	0.15612	15.8227
11 Phenanthrene	178	5.880	5.880	(1.003)	155103	1.71709	174.0225
12 Anthracene	178	5.915	5.915	(1.009)	33155	0.40739	41.2880
13 Carbazole	167	6.021	6.021	(1.027)	13581	0.19212	19.4705

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	331164	3.75198	380.2526
16 Pyrene	202	6.892	6.892	(0.882)	258414	3.28042	332.4618
17 Benzo(a)anthracene	228	7.803	7.804	(0.998)	167518	2.05299	208.0644
19 Chrysene	228	7.833	7.833	(1.002)	183139	2.17284	220.2110
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	184609	2.77126	280.8592
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	84837	1.15600	117.1575(Q)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	115677	1.82489	184.9475
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	62981	1.03445	104.8390(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	24544	0.42749	43.3250
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	73064	1.18140	119.7316

QC Flag Legend

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

Data File: 1CB13036.D

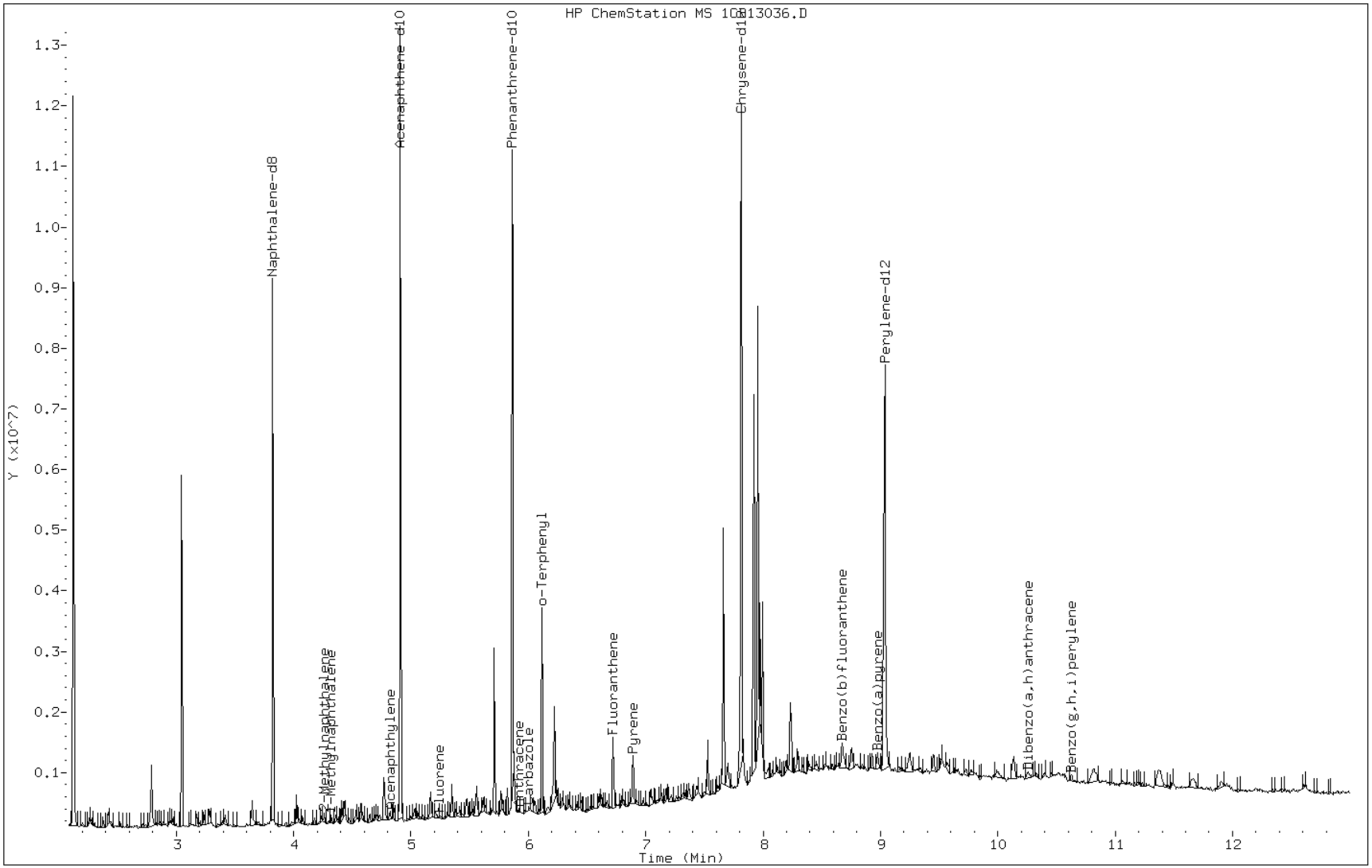
Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD

Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a

Operator: SCC



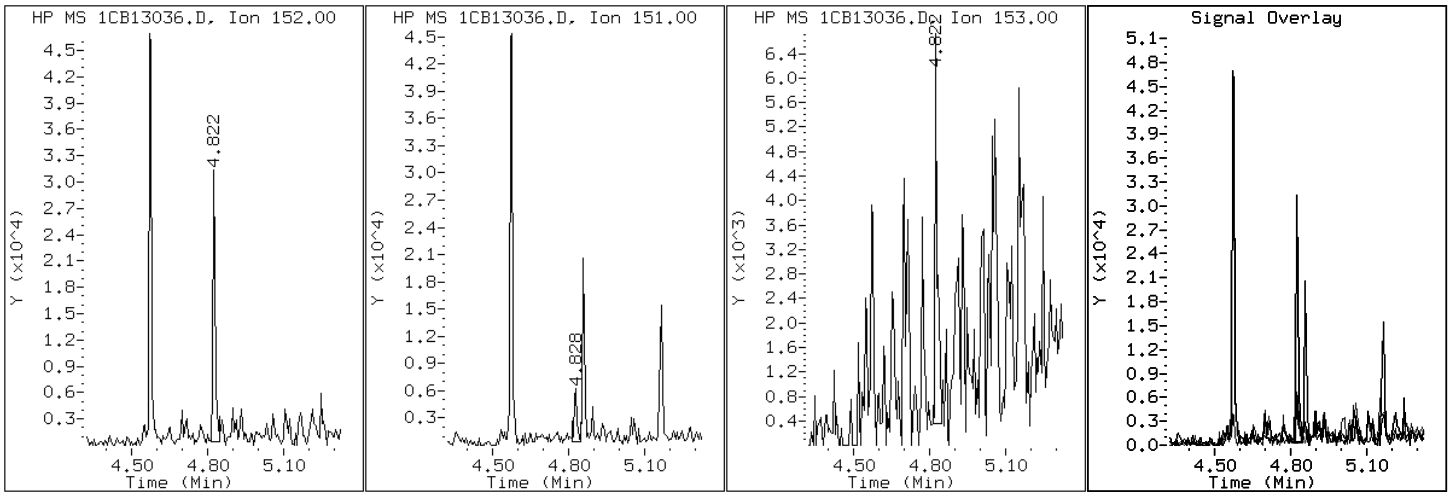
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

5 Acenaphthylene



Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

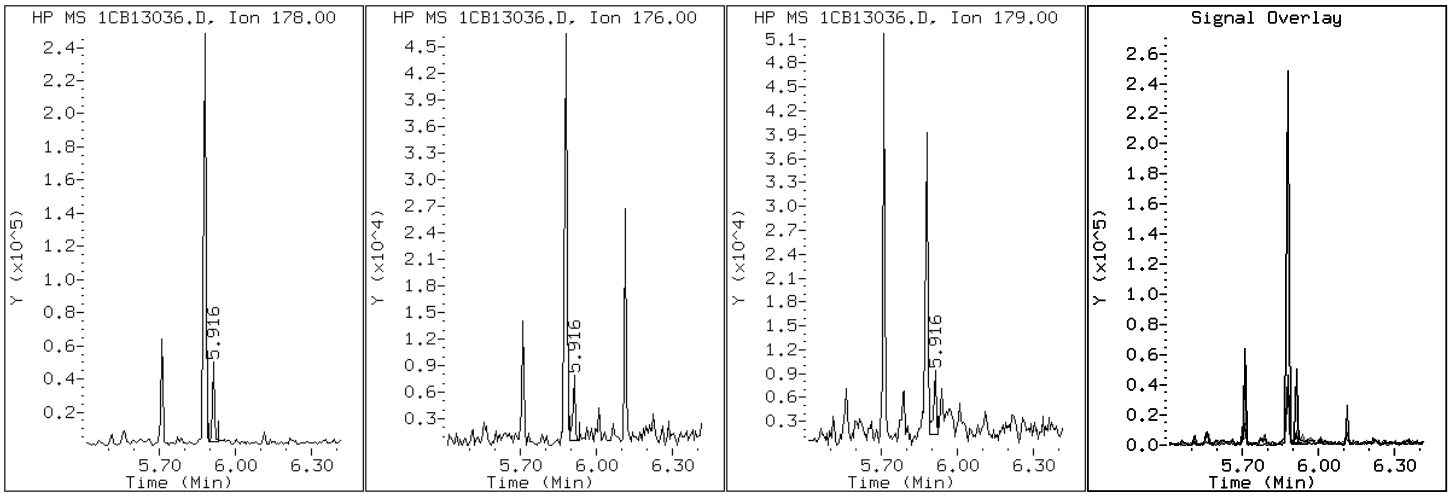
Client ID: CV0748B-CSD

Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a

Operator: SCC

12 Anthracene



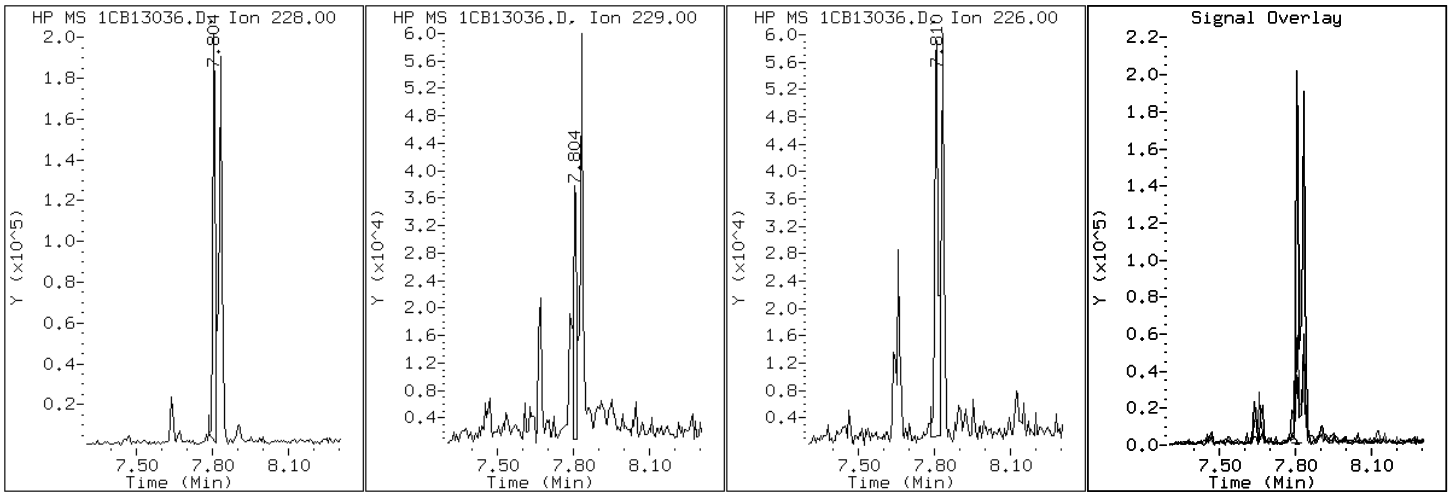
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

17 Benzo(a)anthracene



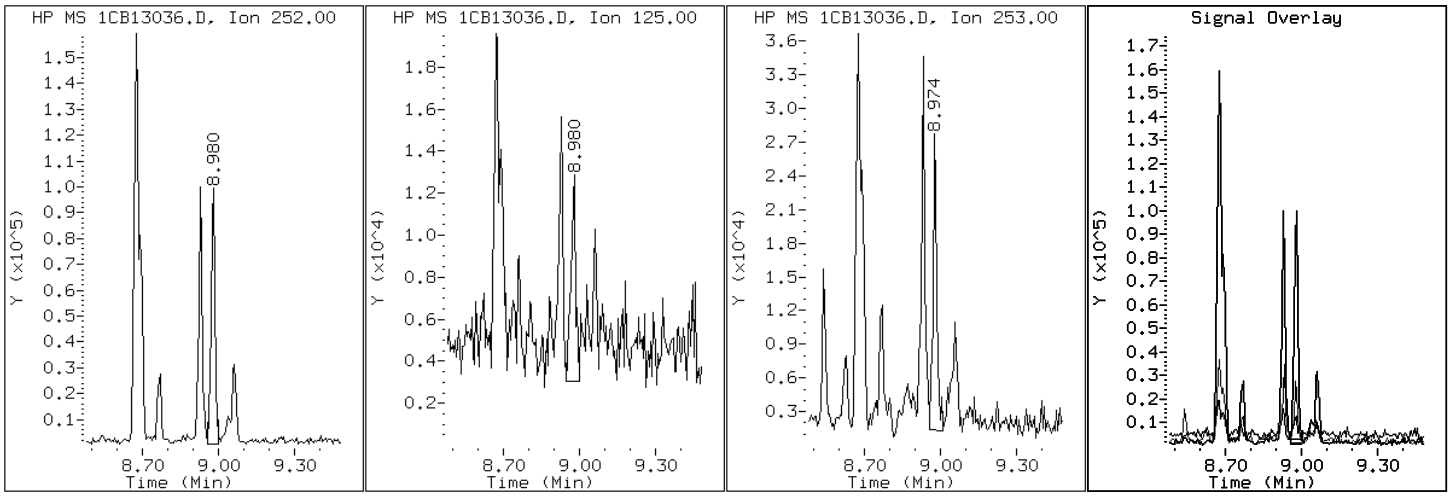
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

22 Benzo(a)pyrene



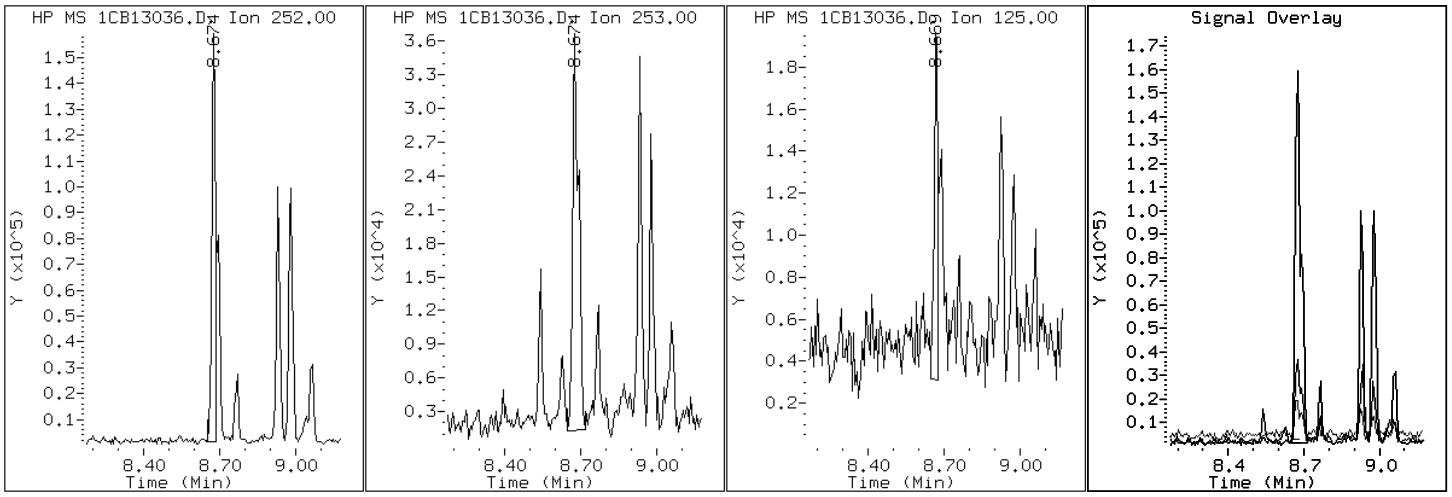
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

20 Benzo(b)fluoranthene



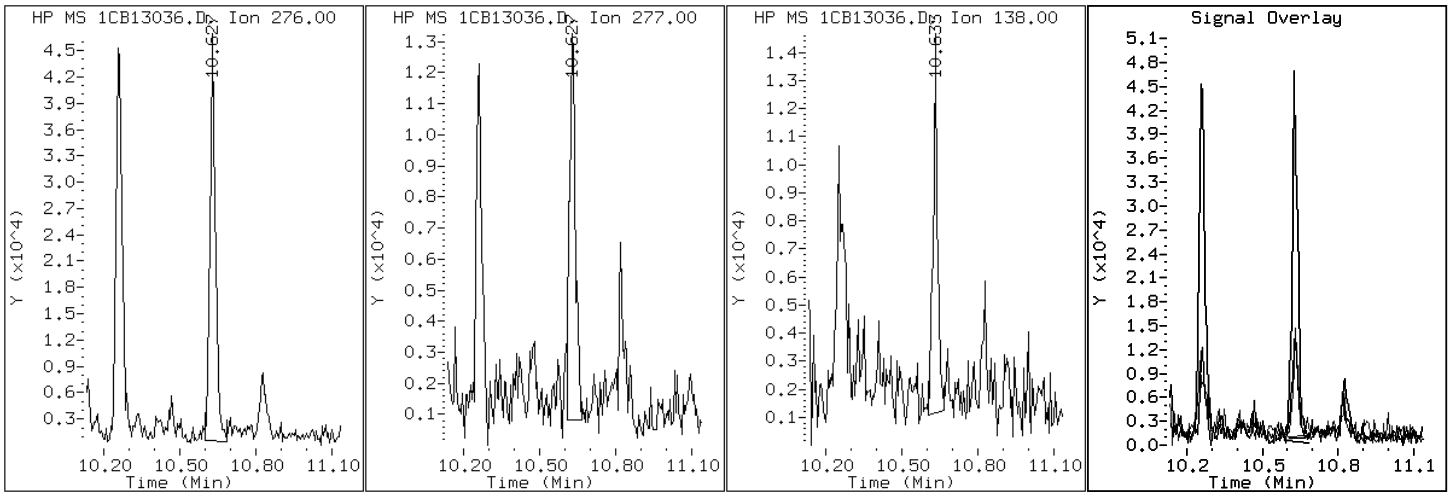
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

26 Benzo(g,h,i)perylene



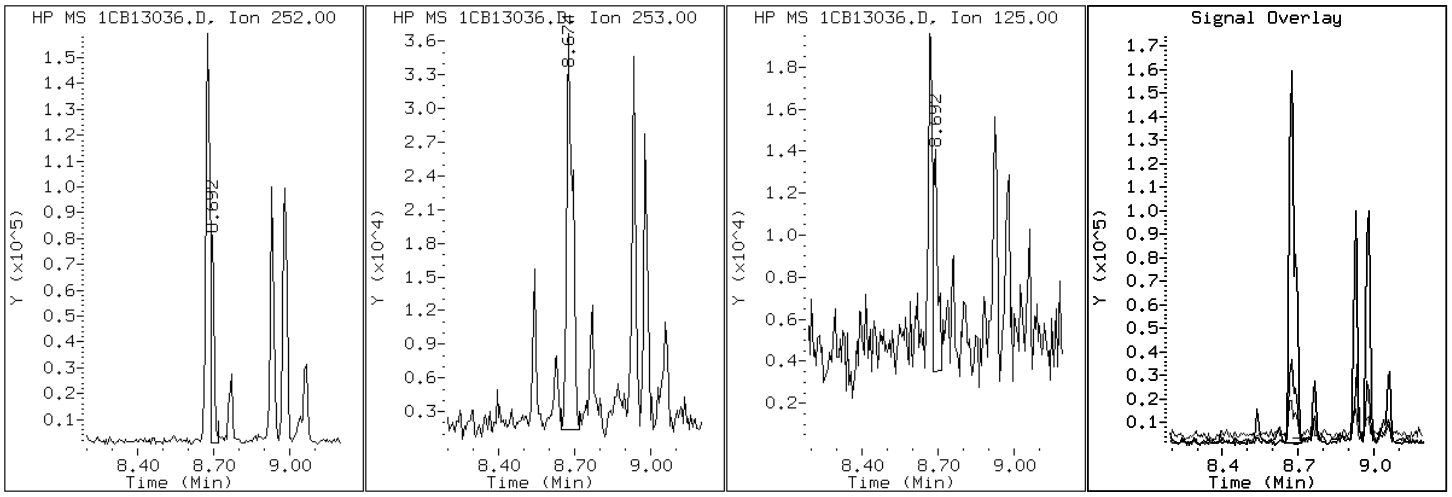
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

21 Benzo(k)fluoranthene



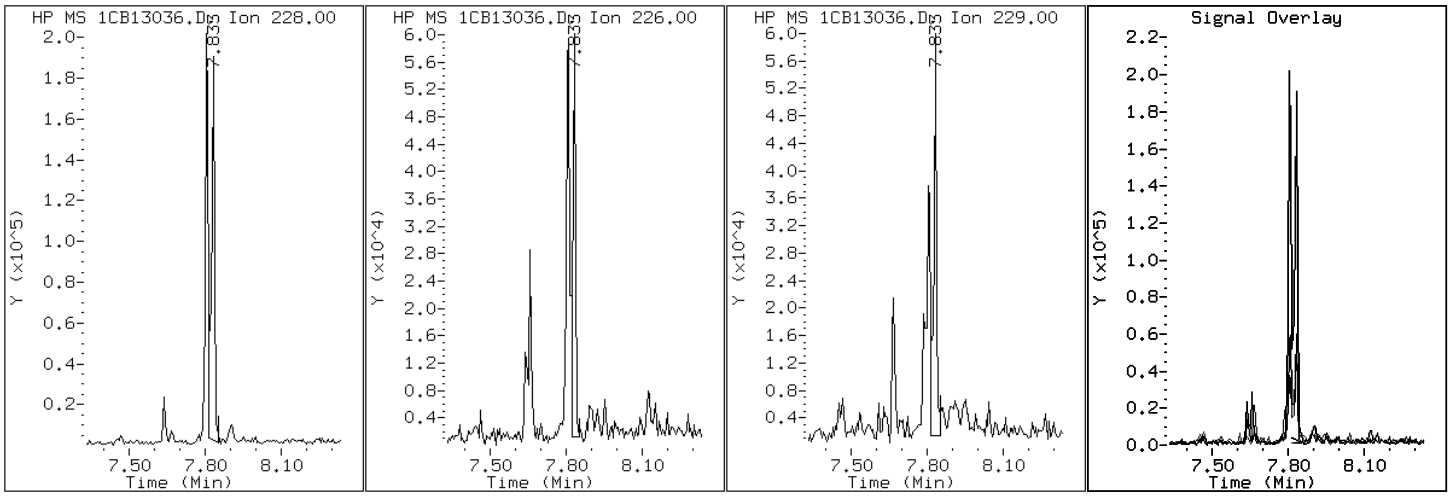
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

19 Chrysene



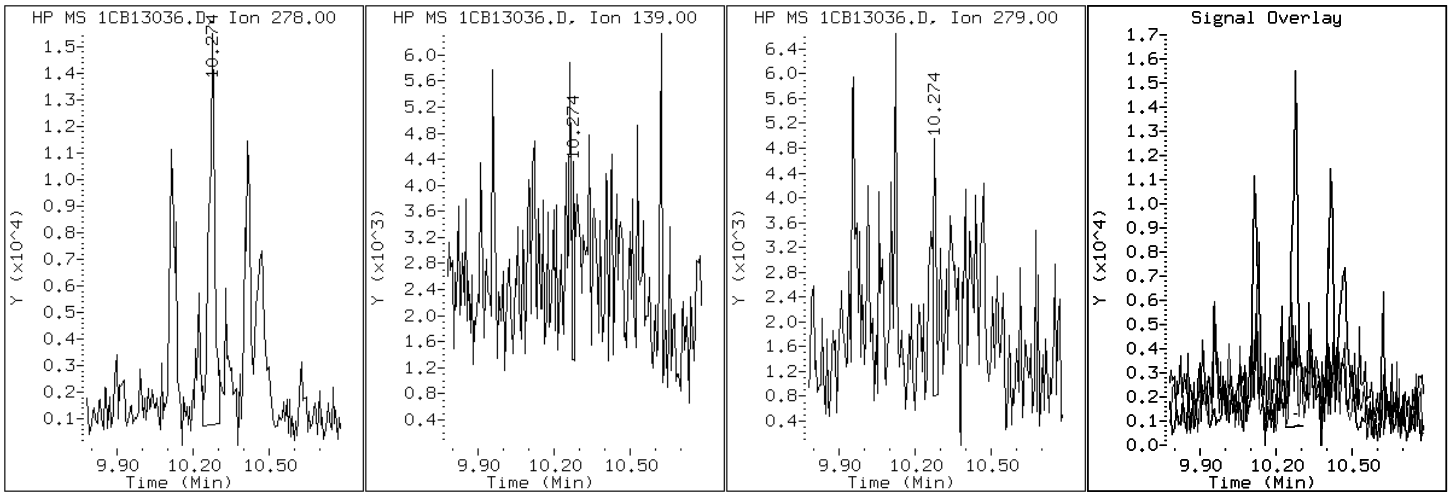
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

25 Dibenzo(a,h)anthracene



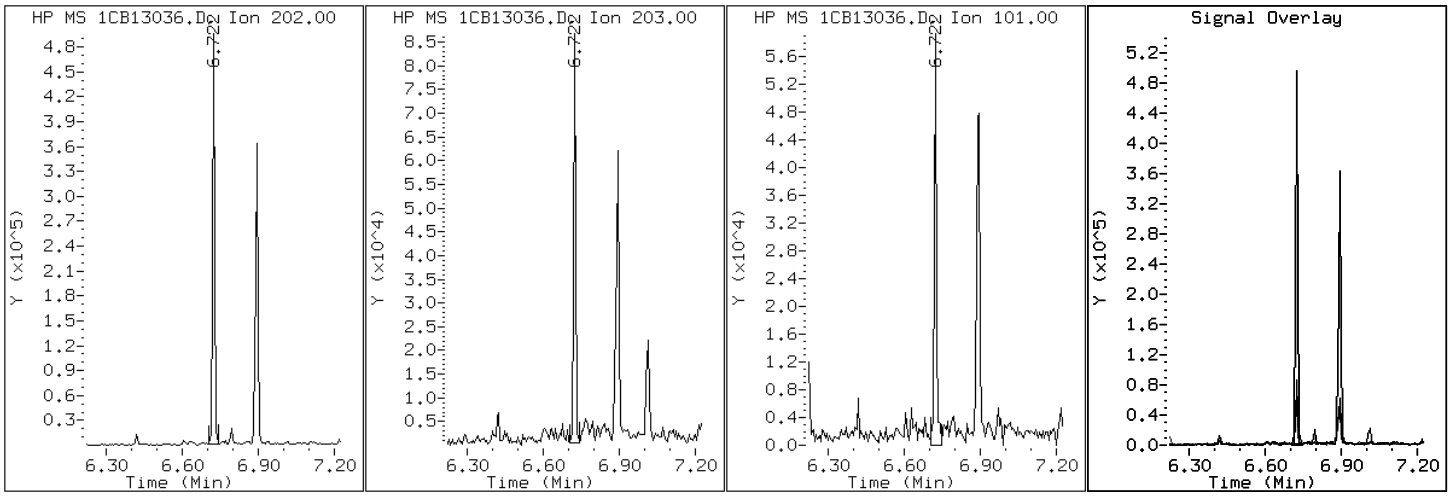
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

15 Fluoranthene



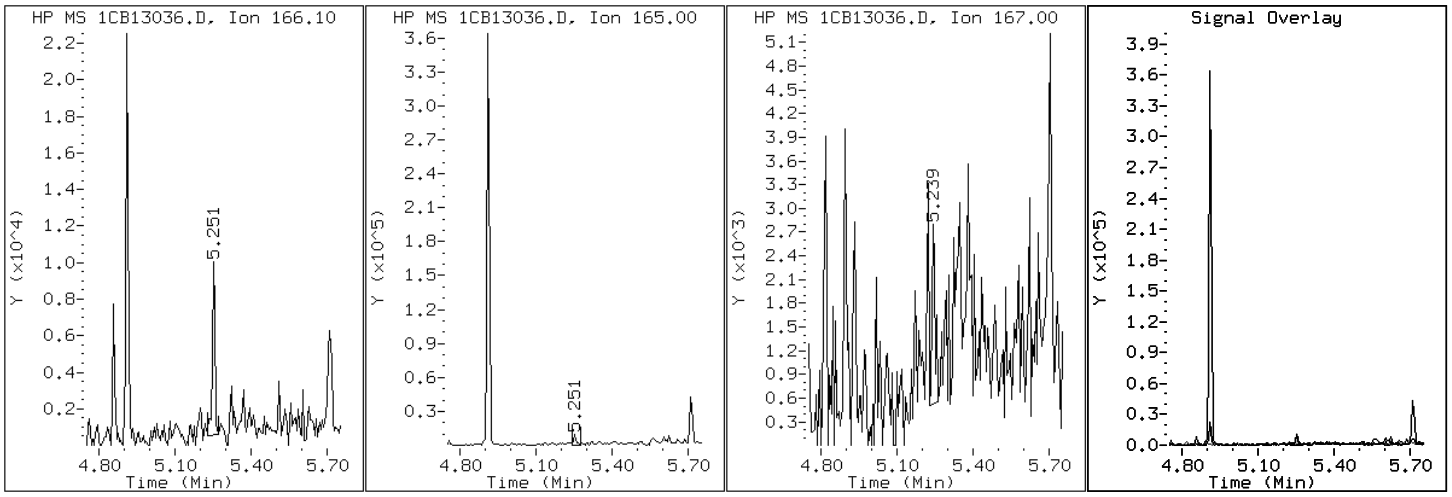
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

9 Fluorene



Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

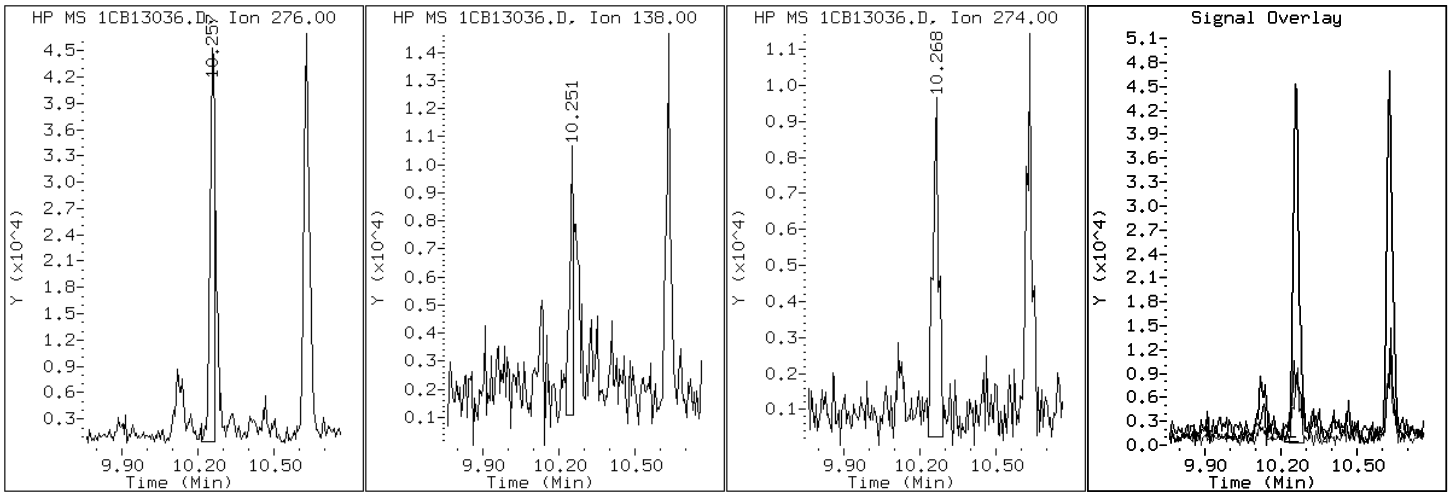
Client ID: CV0748B-CSD

Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a

Operator: SCC

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



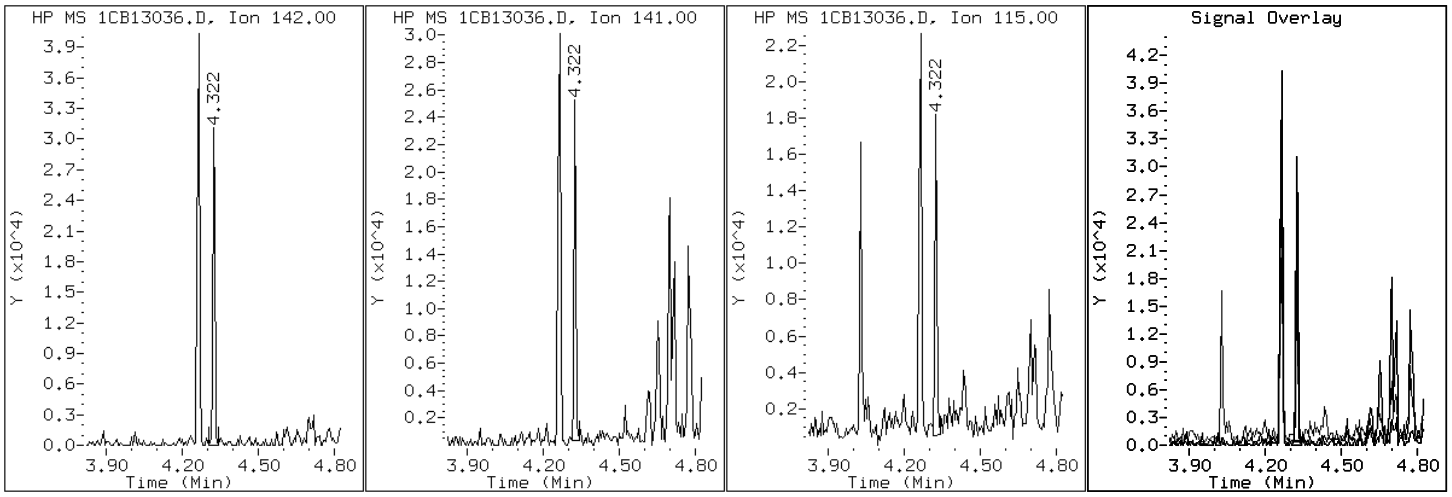
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

4 1-Methylnaphthalene



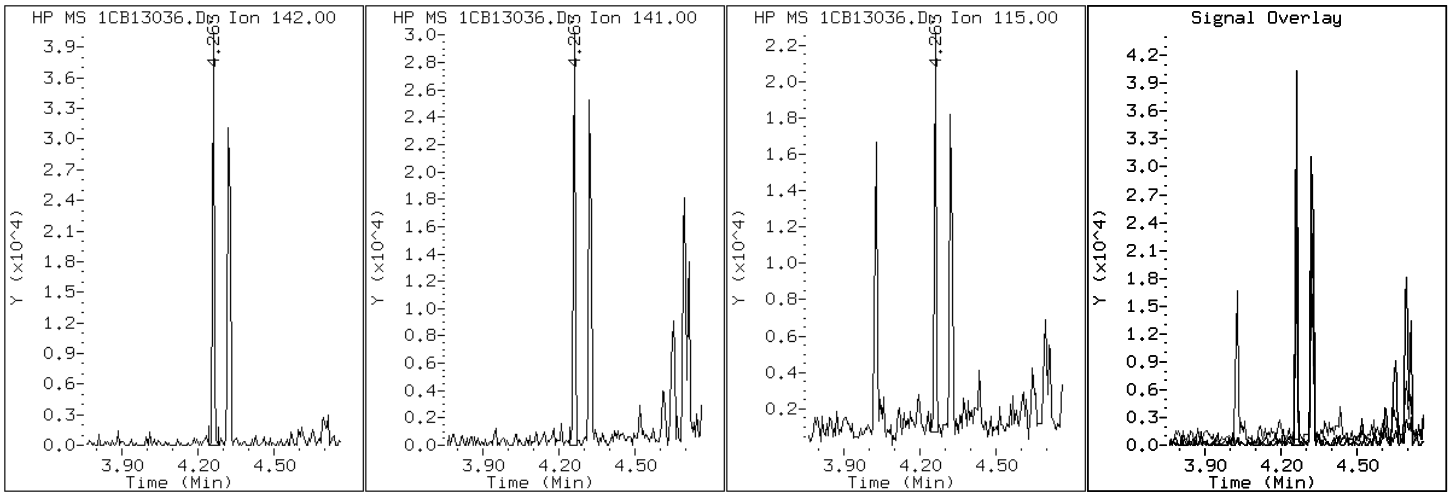
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

3 2-Methylnaphthalene



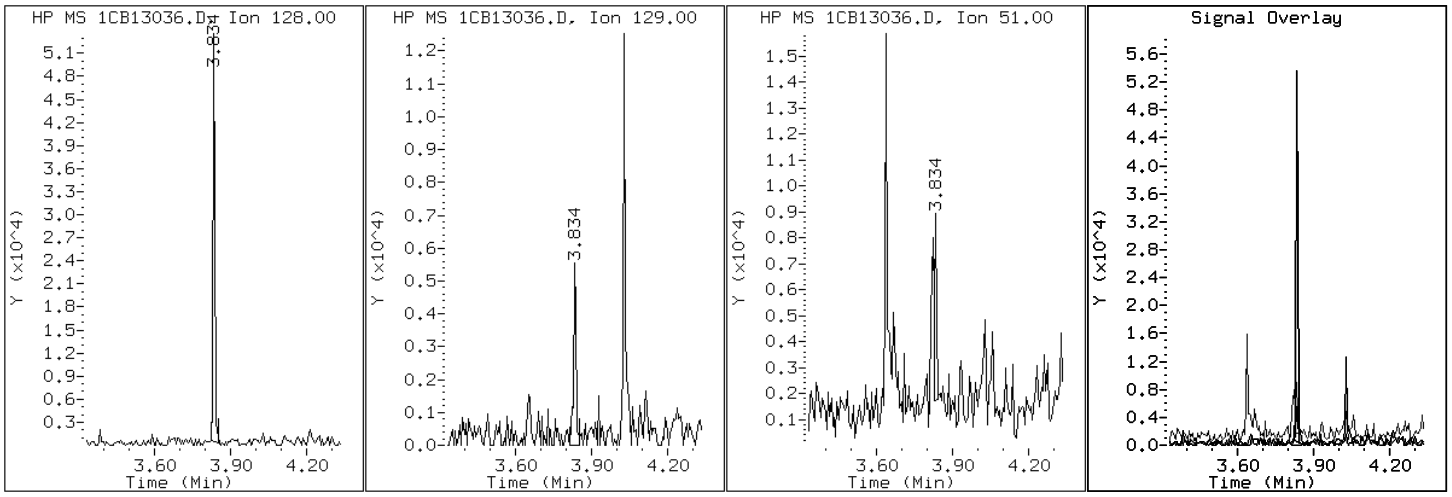
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

2 Naphthalene



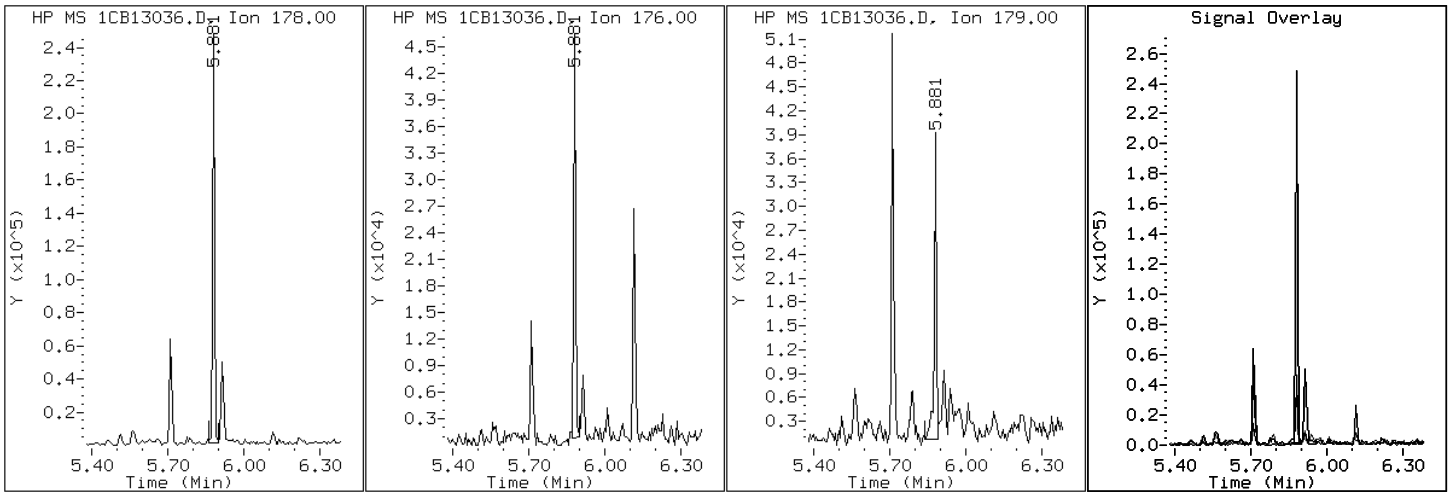
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

11 Phenanthrene



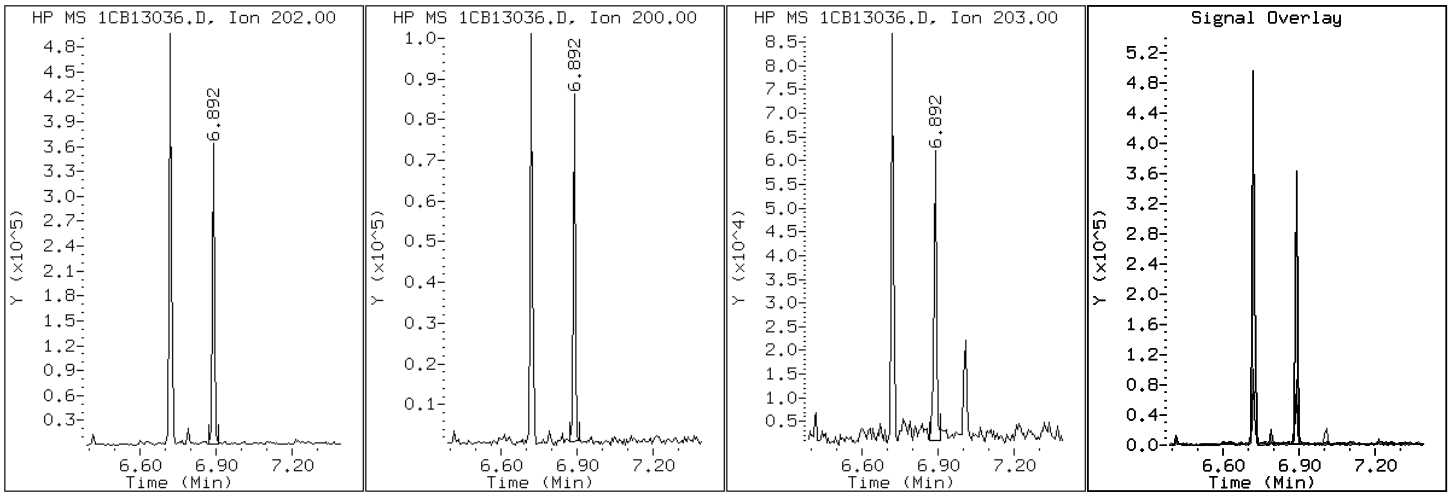
Data File: 1CB13036.D

Date: 13-FEB-2013 21:58

Client ID: CV0748B-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-a-12-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB13036.D
Inj. Date and Time: 13-FEB-2013 21:58
Instrument ID: BSMC5973.i
Client ID: CV0748B-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

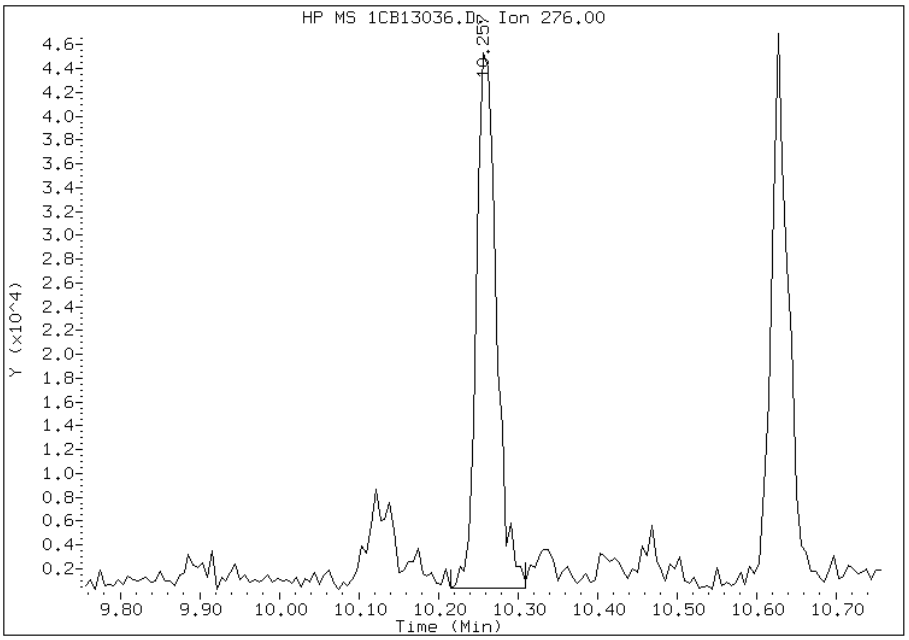
Processing Integration Results

RT: 10.26

Response: 78917

Amount: 1

Conc: 131



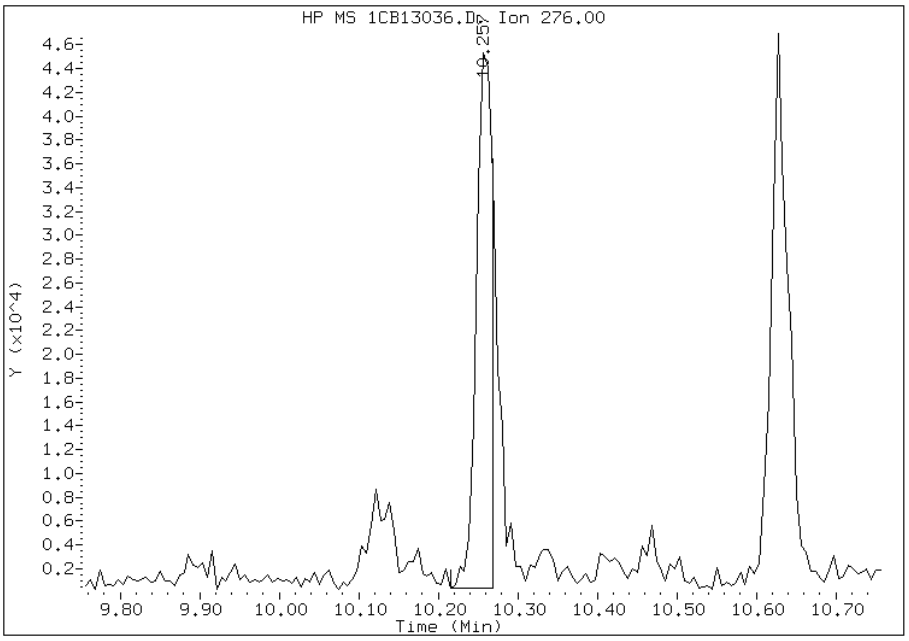
Manual Integration Results

RT: 10.26

Response: 62981

Amount: 1

Conc: 105



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:22
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0748C-CS | Lab Sample ID: 680-87218-13

Matrix: Solid | Lab File ID: 1CB13037.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:50

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.18(g) | Date Analyzed: 02/13/2013 22:17

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

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

% Moisture: 22.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	510	U	510	100
208-96-8	Acenaphthylene	55	J	200	26
120-12-7	Anthracene	80		43	21
56-55-3	Benzo[a]anthracene	460		41	20
50-32-8	Benzo[a]pyrene	520		53	27
205-99-2	Benzo[b]fluoranthene	750		62	31
191-24-2	Benzo[g,h,i]perylene	370		100	22
207-08-9	Benzo[k]fluoranthene	310		41	18
218-01-9	Chrysene	570		46	23
53-70-3	Dibenz(a,h)anthracene	120		100	21
206-44-0	Fluoranthene	910		100	20
86-73-7	Fluorene	23	J	100	21
193-39-5	Indeno[1,2,3-cd]pyrene	320		100	36
90-12-0	1-Methylnaphthalene	230		200	22
91-57-6	2-Methylnaphthalene	240		200	36
91-20-3	Naphthalene	160	J	200	22
85-01-8	Phenanthrene	490	B	41	20
129-00-0	Pyrene	860		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	87		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13037.D
Lab Smp Id: 680-87218-A-13-A Client Smp ID: CV0748C-CS
Inj Date : 13-FEB-2013 22:17
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-13-a
Misc Info : 680-87218-A-13-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 37
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.180	Weight Extracted
M	22.624	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2622937	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	2030697	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	3686160	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	118116	2.18690	744.7469
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3688326	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	3435373	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	32911	0.47351	161.2531
3 2-Methylnaphthalene	142	4.262	4.263	(1.115)	32397	0.71685	244.1231
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	28232	0.68686	233.9104
5 Acenaphthylene	152	4.821	4.821	(0.982)	12946	0.16024	54.5706
9 Fluorene	166	5.251	5.251	(1.069)	4430	0.06811	23.1943(Q)
11 Phenanthrene	178	5.880	5.880	(1.003)	158420	1.43980	490.3214
12 Anthracene	178	5.915	5.915	(1.009)	23335	0.23539	80.1620
13 Carbazole	167	6.021	6.021	(1.027)	19257	0.22364	76.1587

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.721	6.721	(1.146)	286614	2.66583	907.8455
16 Pyrene	202	6.892	6.892	(0.882)	248899	2.53481	863.2280
17 Benzo(a)anthracene	228	7.803	7.804	(0.998)	138580	1.36249	463.9952
19 Chrysene	228	7.833	7.833	(1.002)	174557	1.66147	565.8121
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	184800	2.19415	747.2138(M)
21 Benzo(k)fluoranthene	252	8.686	8.698	(0.961)	84594	0.91170	310.4784(QM)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	122813	1.53240	521.8586
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	72141	0.93718	319.1559(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	25348	0.34919	118.9171
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	84467	1.08024	367.8743

QC Flag Legend

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

Data File: 1CB13037.D

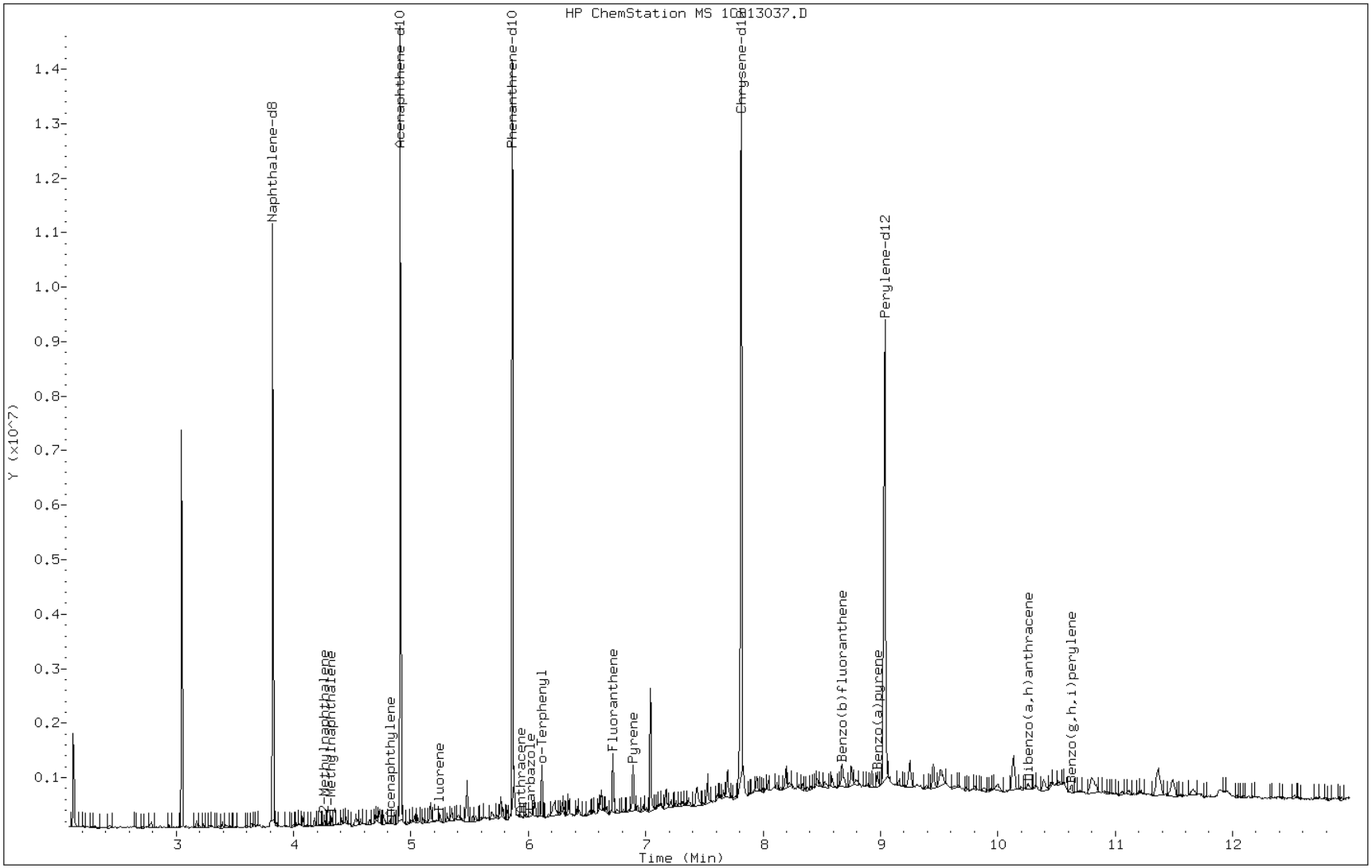
Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a

Operator: SCC



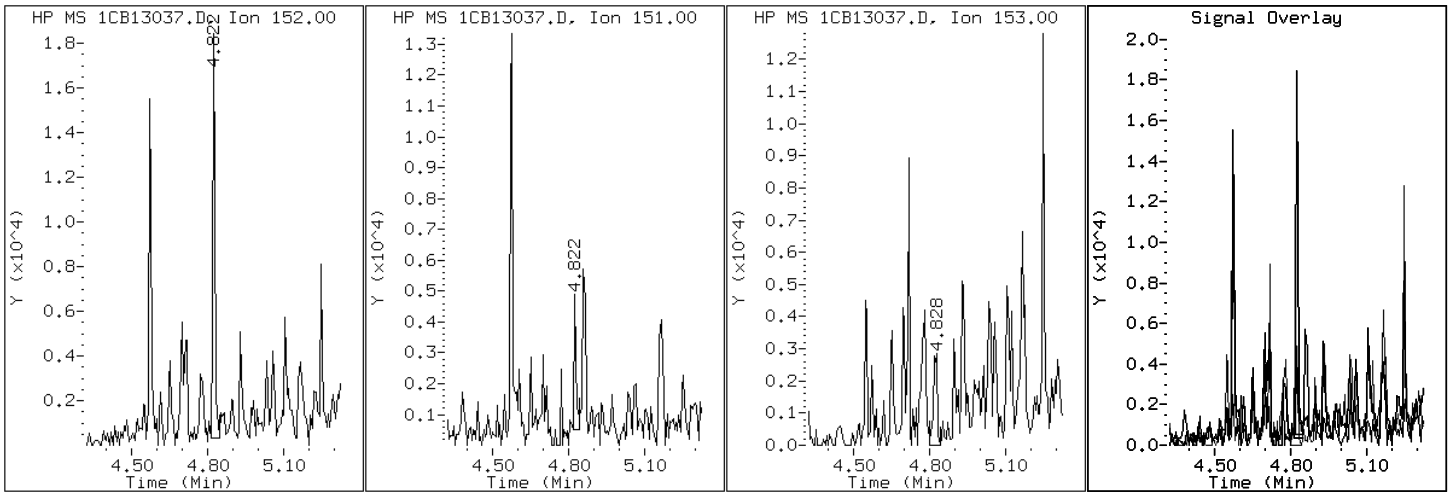
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

5 Acenaphthylene



Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

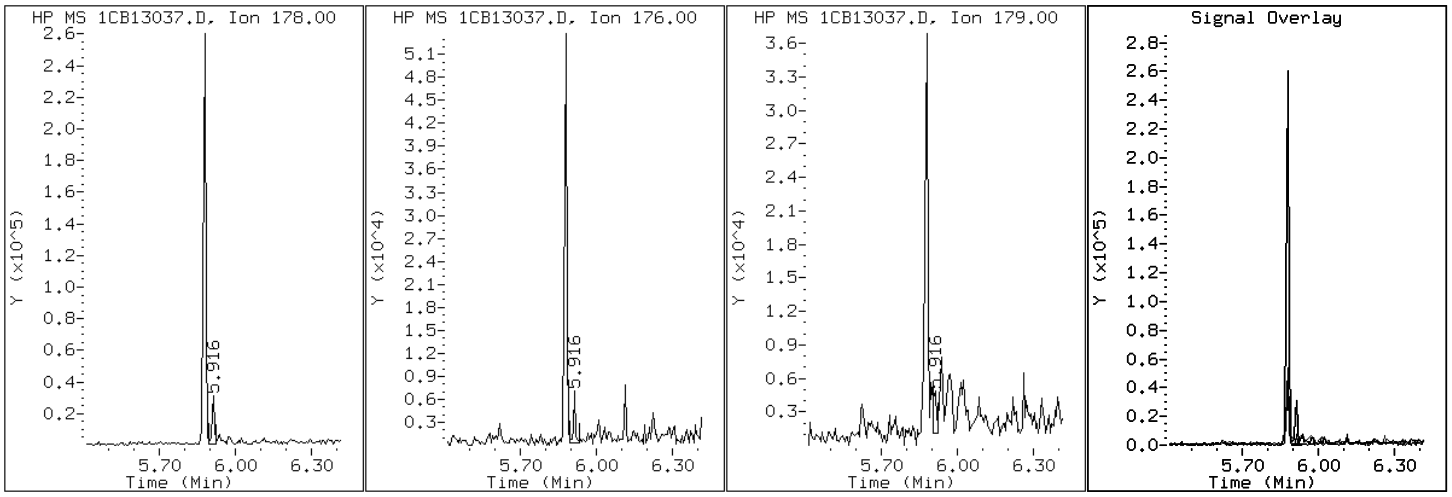
Client ID: CV0748C-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a

Operator: SCC

12 Anthracene



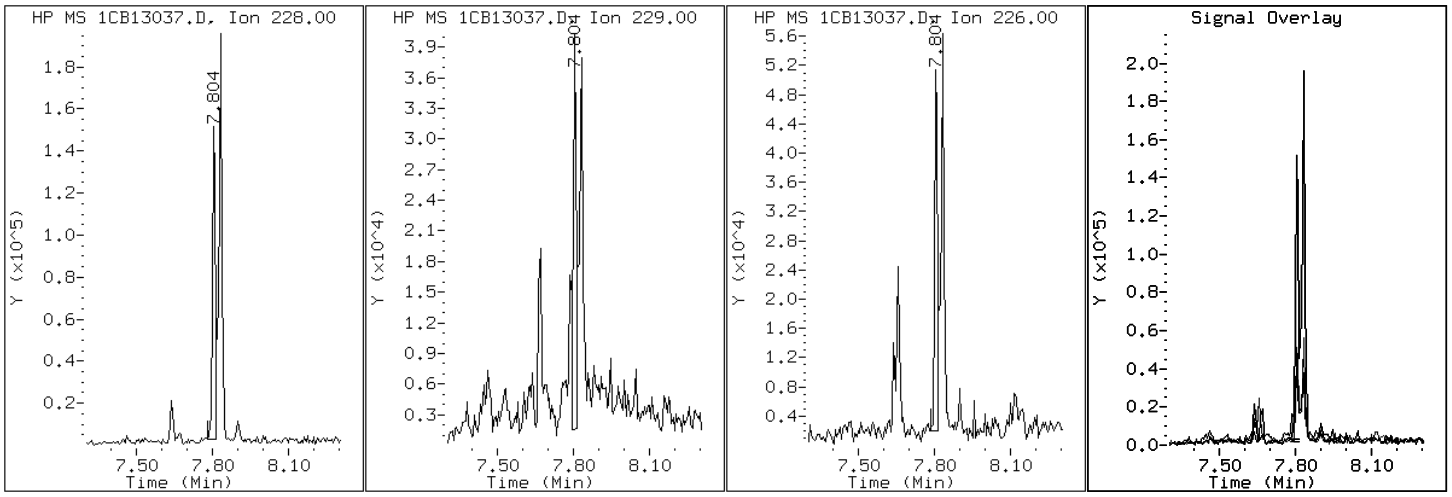
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

17 Benzo(a)anthracene



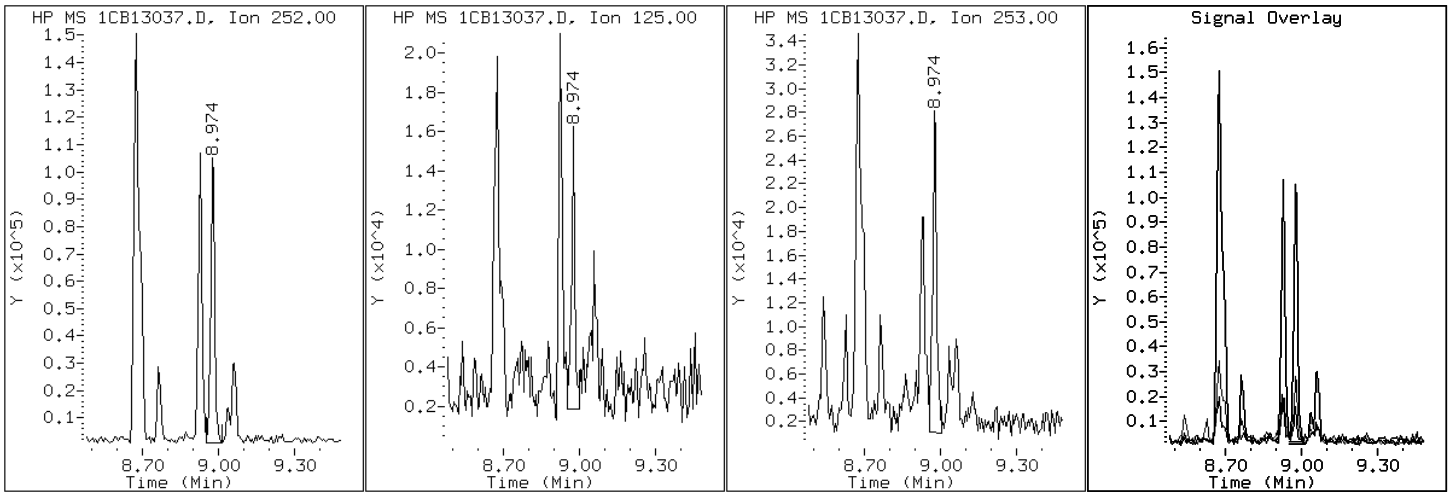
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

22 Benzo(a)pyrene



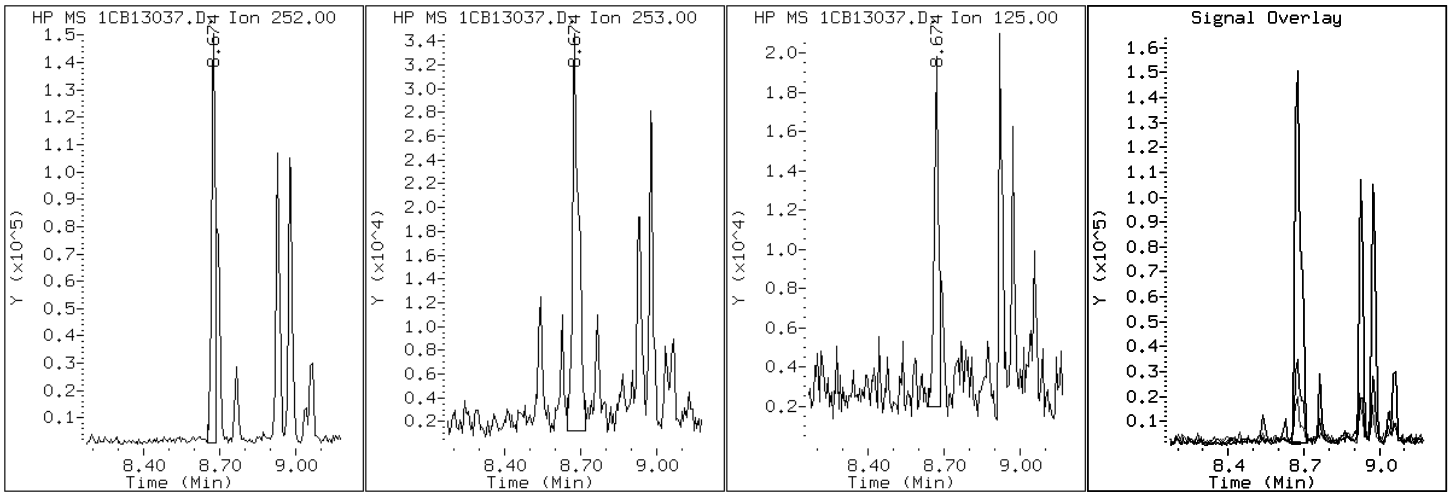
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

20 Benzo(b)fluoranthene



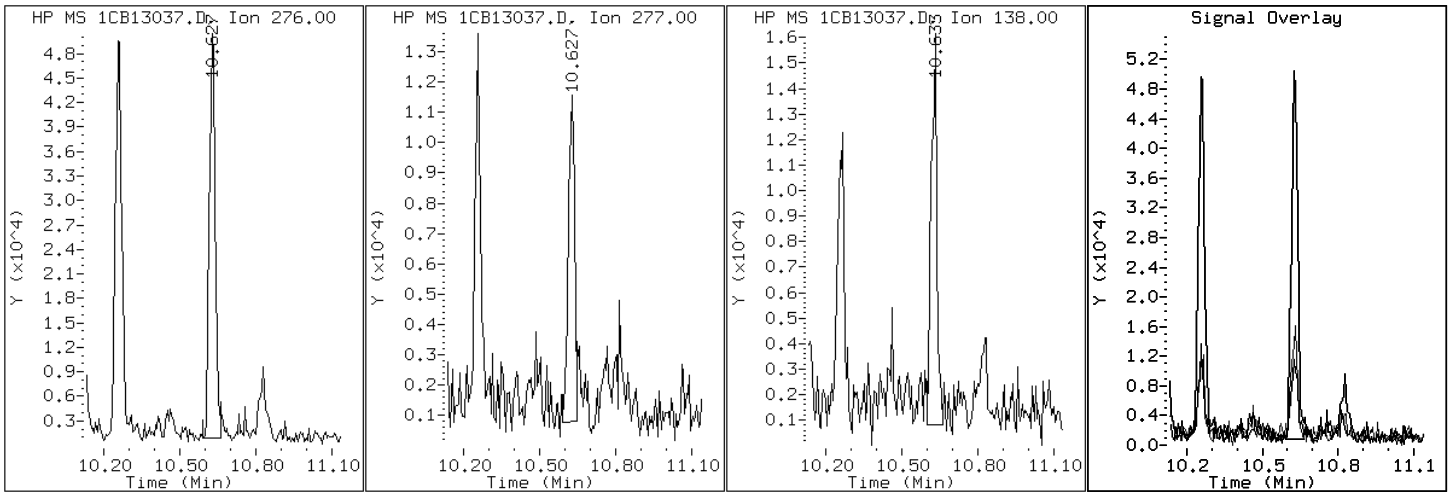
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

26 Benzo(g,h,i)perylene



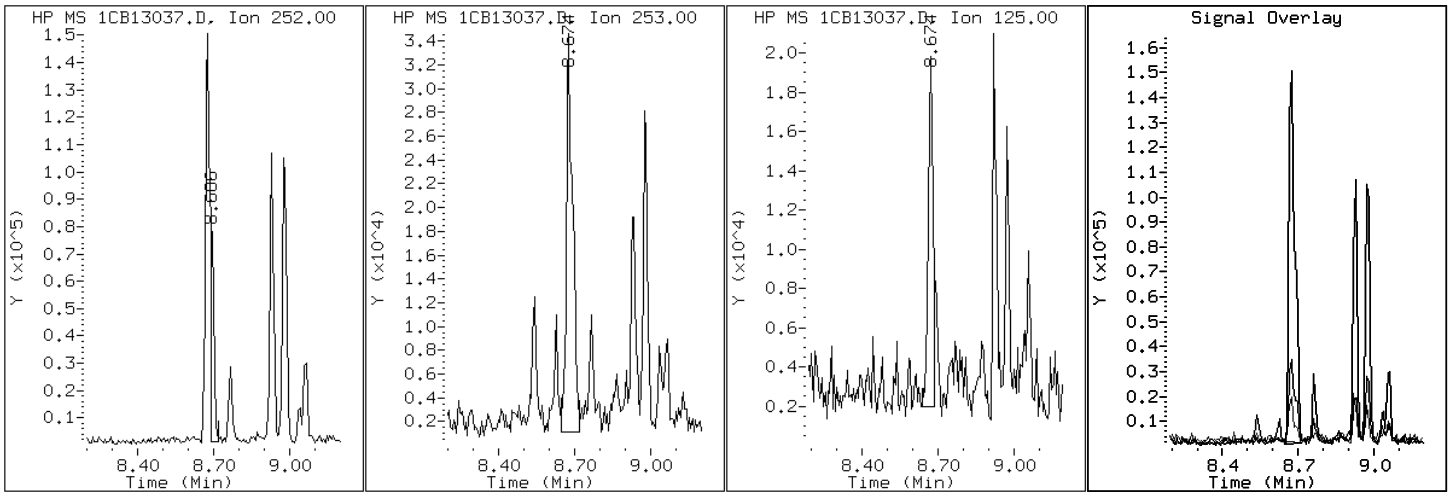
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

21 Benzo(k)fluoranthene



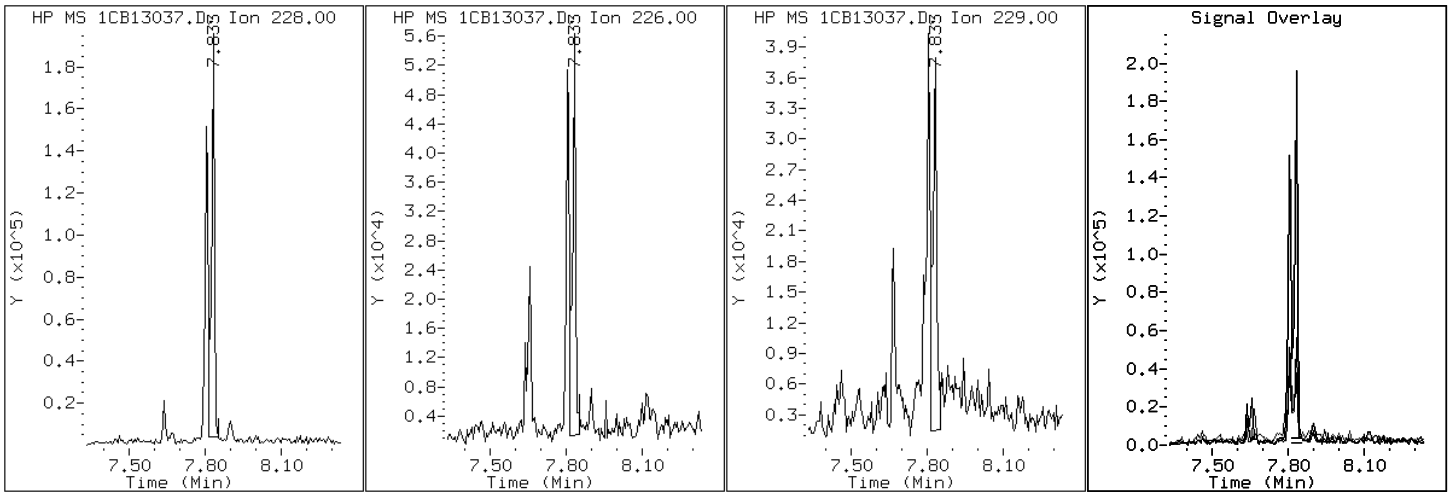
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

19 Chrysene



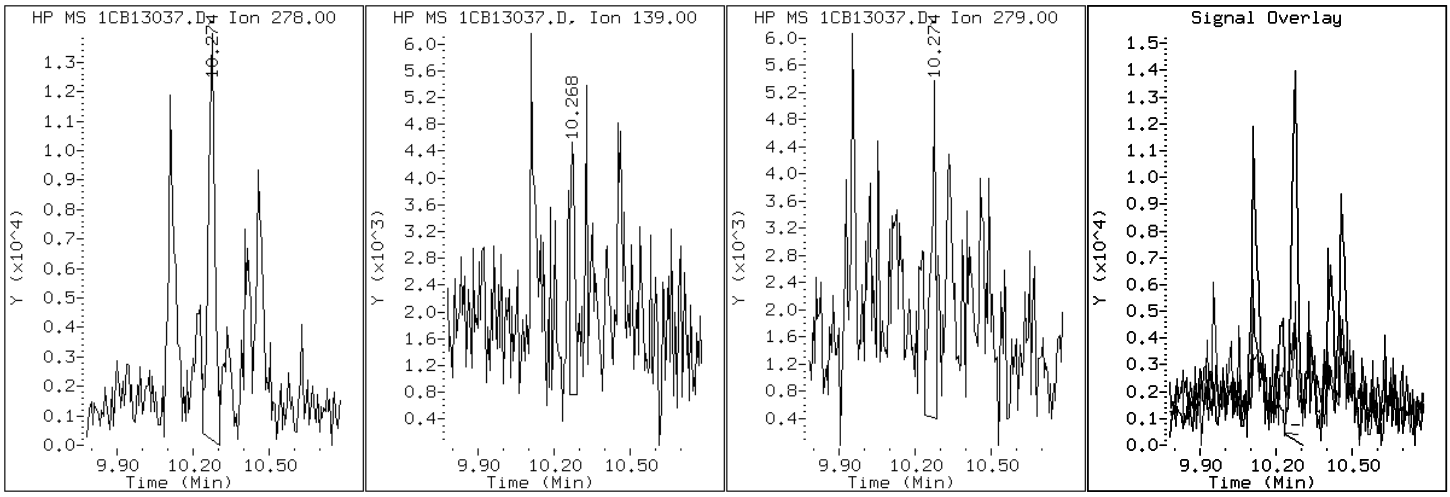
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

25 Dibenzo(a,h)anthracene



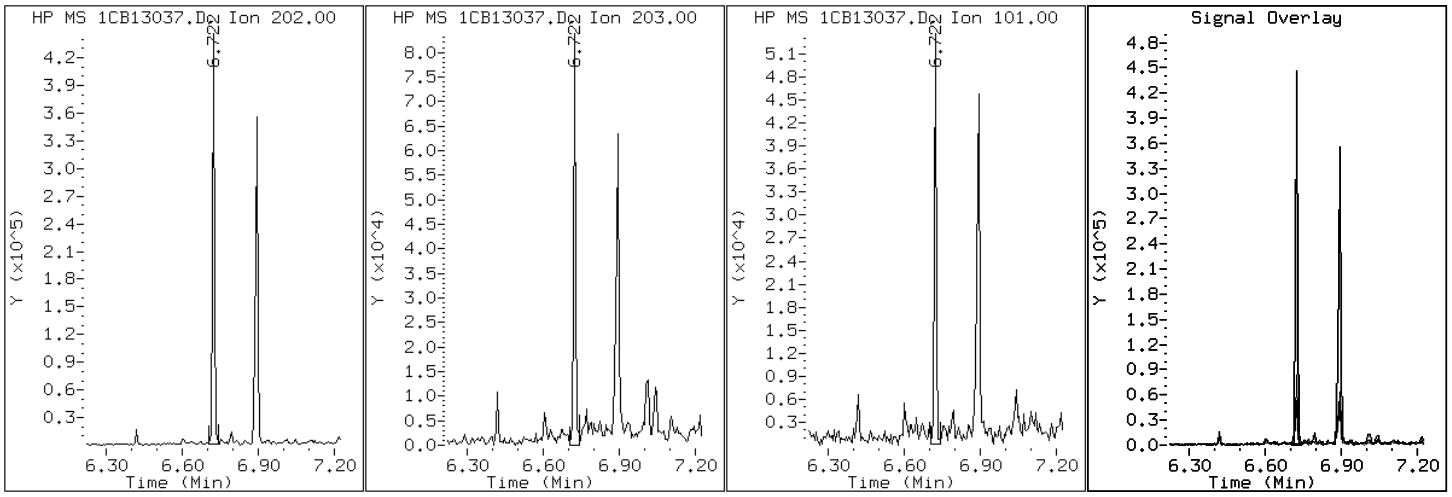
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

15 Fluoranthene



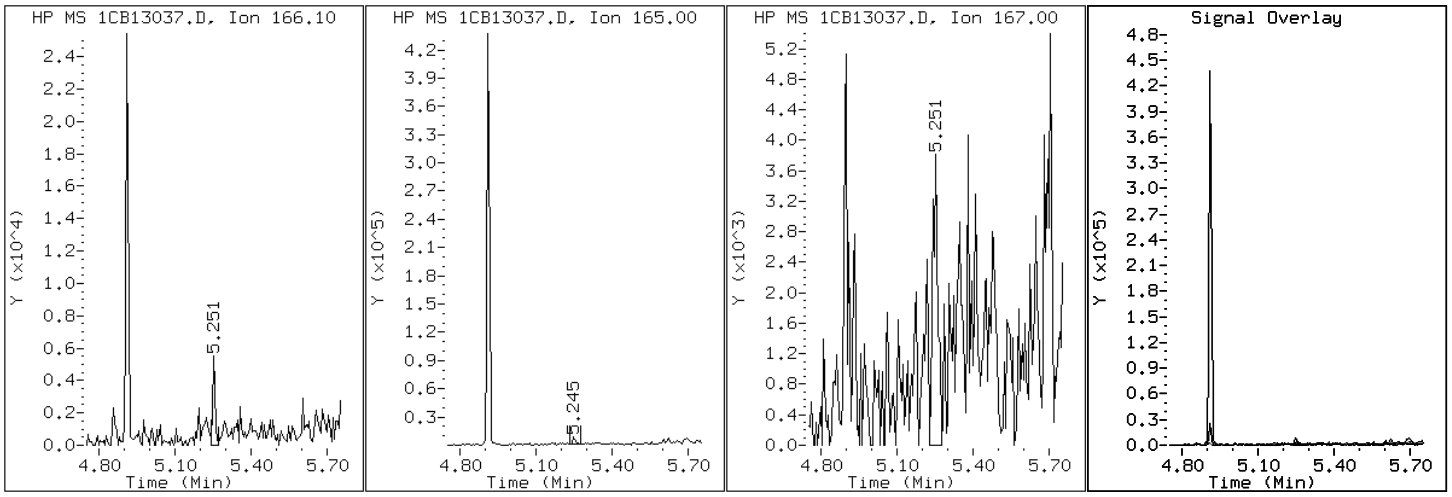
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

9 Fluorene



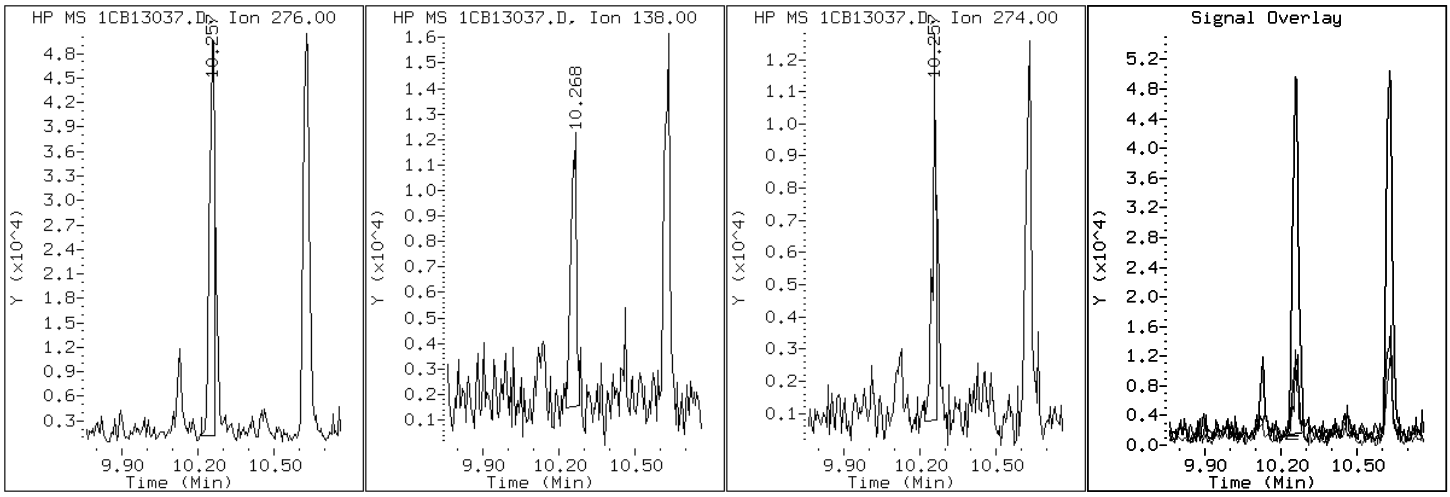
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

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



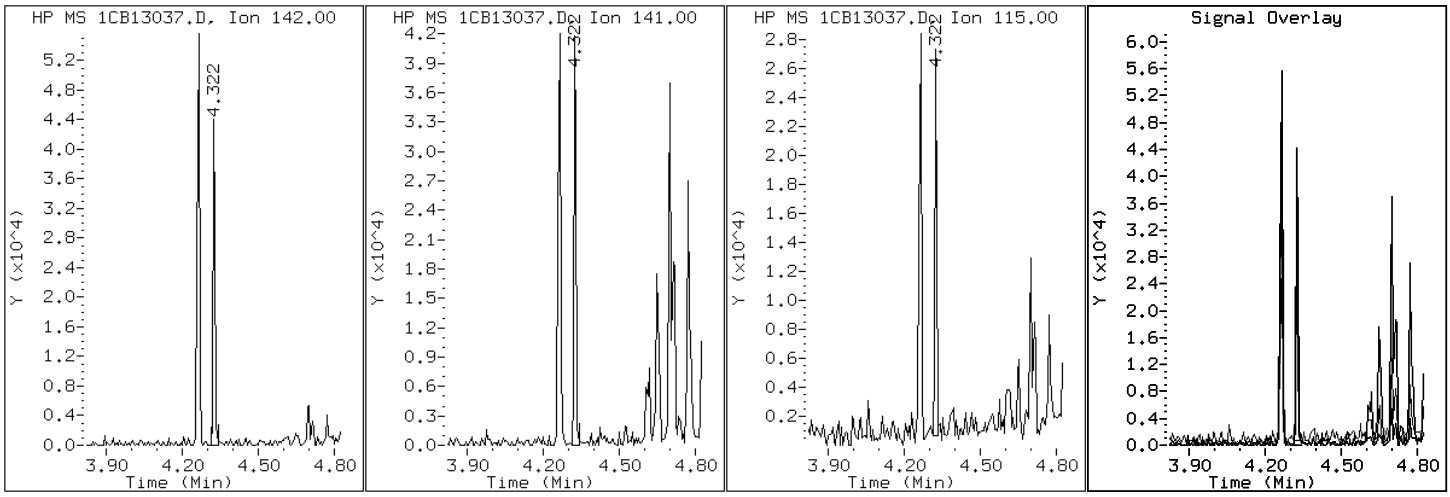
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

4 1-Methylnaphthalene



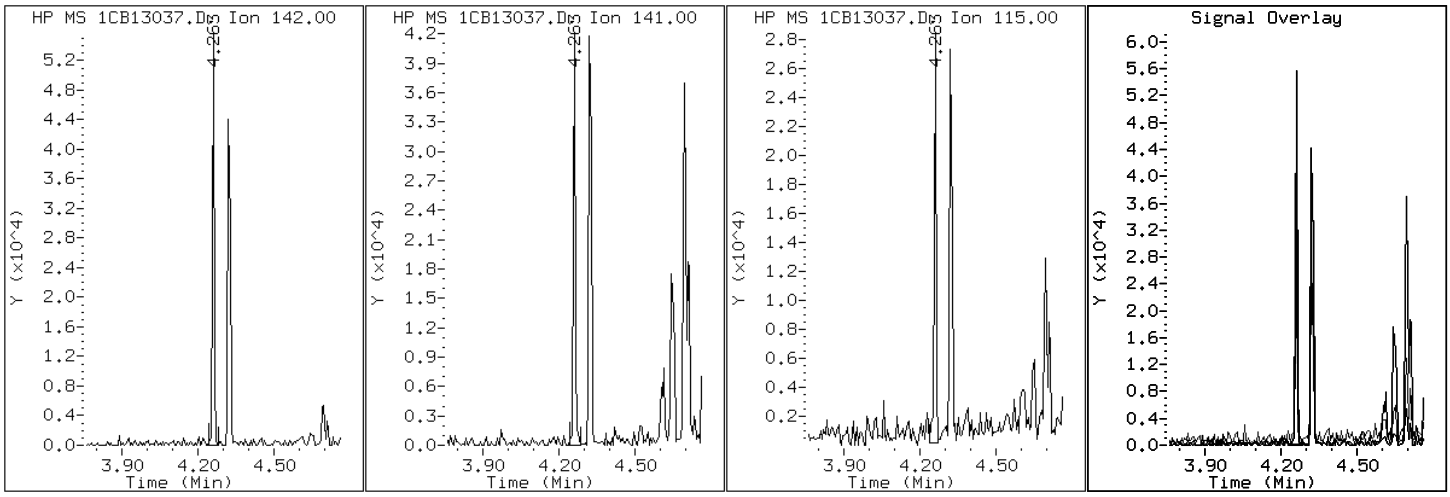
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

3 2-Methylnaphthalene



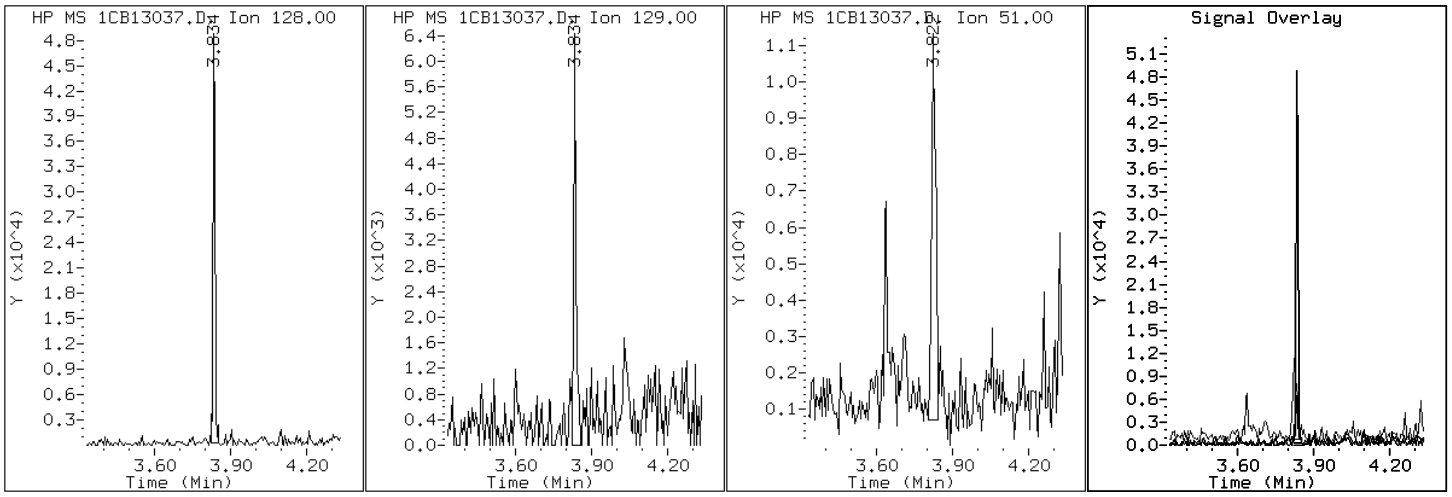
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

2 Naphthalene



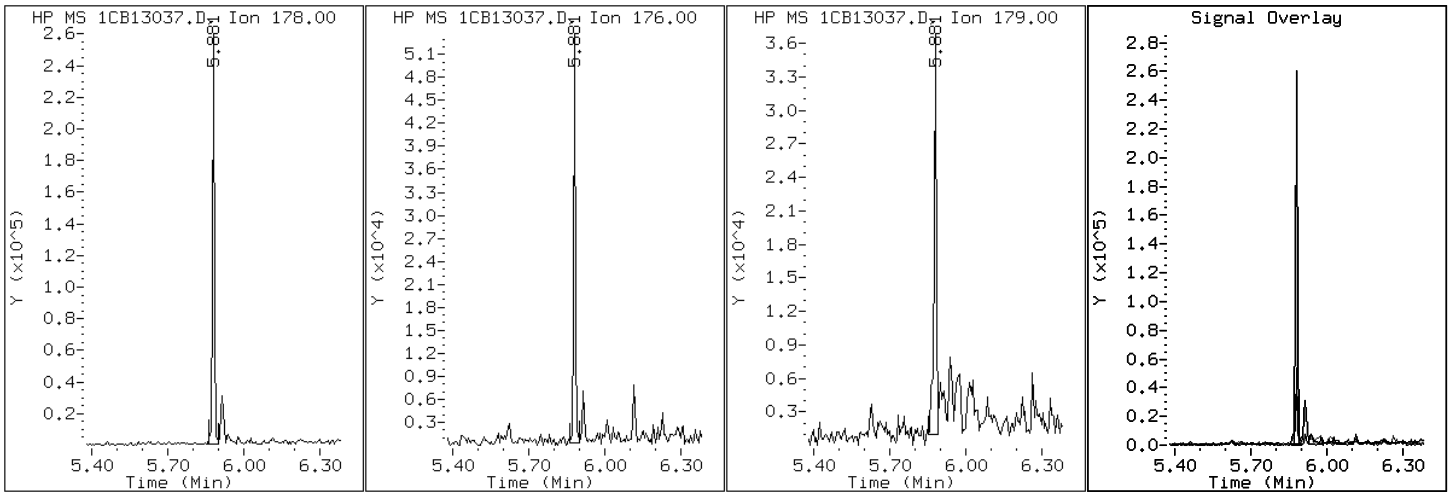
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

11 Phenanthrene



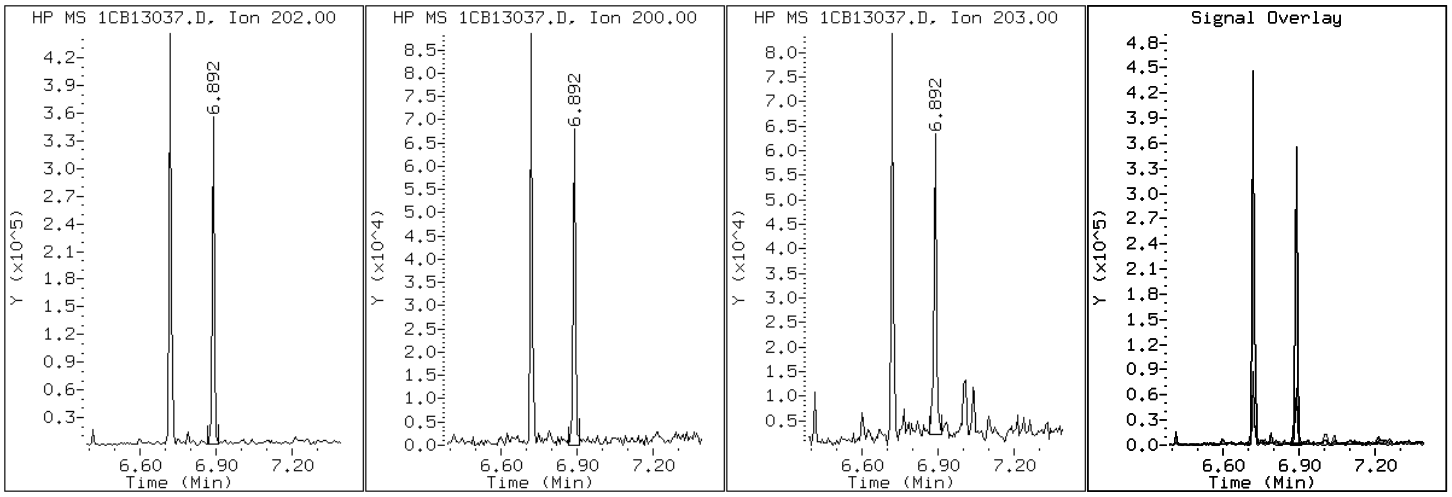
Data File: 1CB13037.D

Date: 13-FEB-2013 22:17

Client ID: CV0748C-CS Instrument: BSMC5973.i

Sample Info: 680-87218-a-13-a Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB13037.D
Inj. Date and Time: 13-FEB-2013 22:17
Instrument ID: BSMC5973.i
Client ID: CV0748C-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

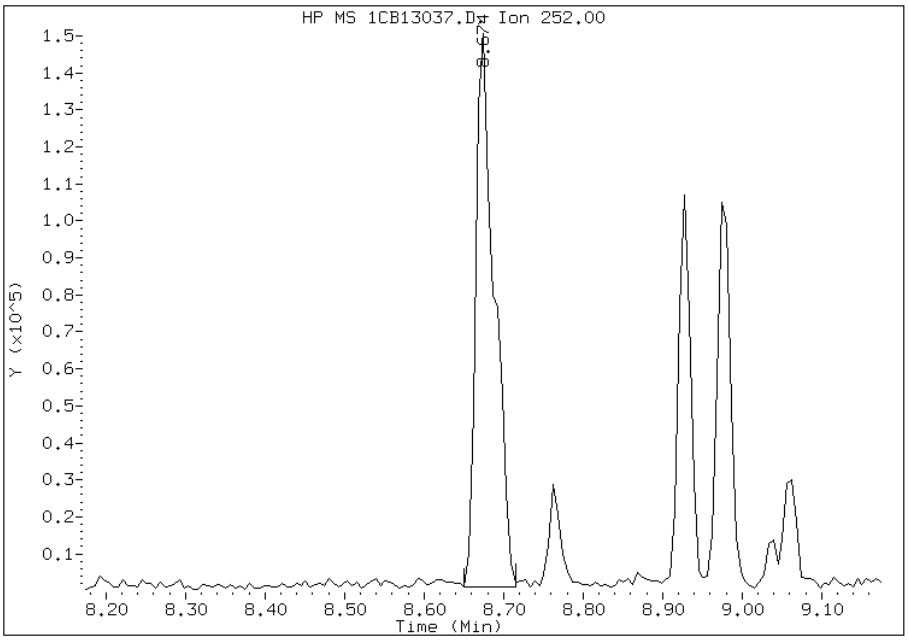
Processing Integration Results

RT: 8.67

Response: 241891

Amount: 3

Conc: 978



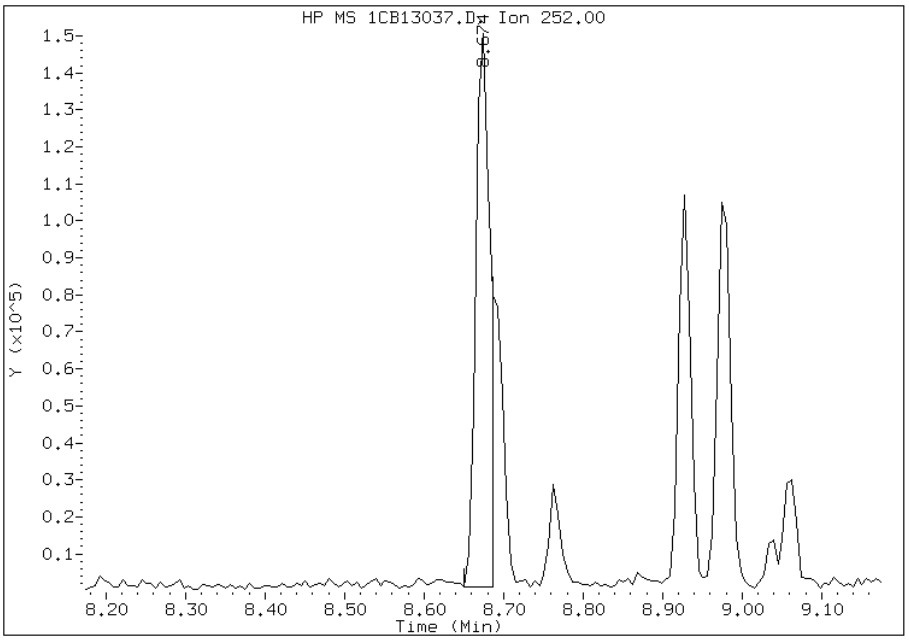
Manual Integration Results

RT: 8.67

Response: 184800

Amount: 2

Conc: 747



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:23
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB13037.D
Inj. Date and Time: 13-FEB-2013 22:17
Instrument ID: BSMC5973.i
Client ID: CV0748C-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

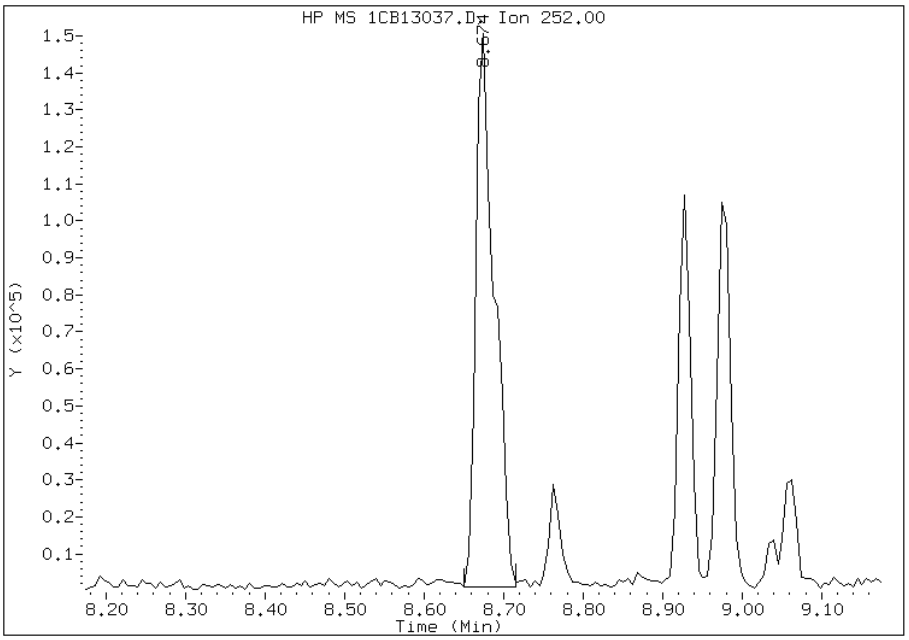
Processing Integration Results

RT: 8.67

Response: 241891

Amount: 3

Conc: 888



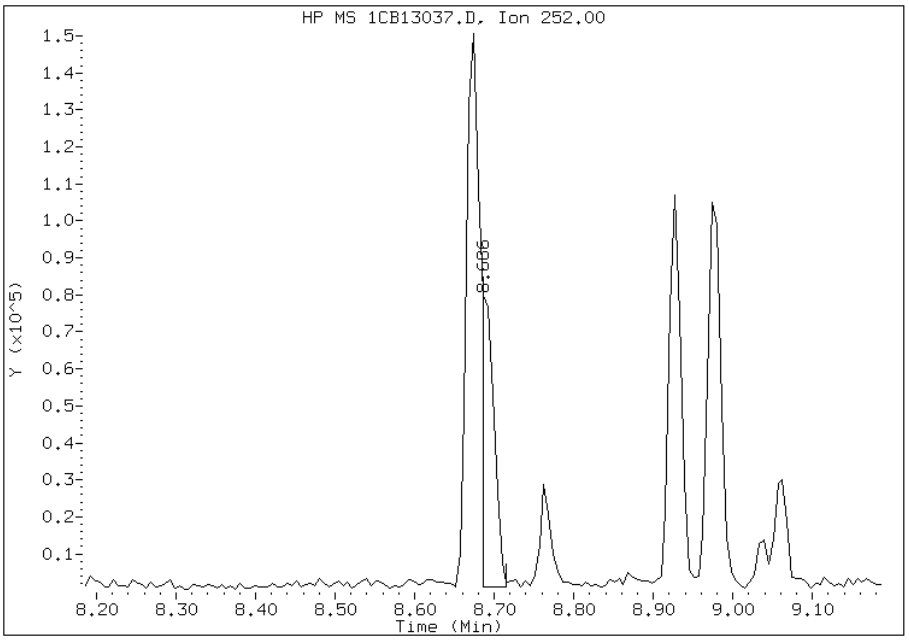
Manual Integration Results

RT: 8.69

Response: 84594

Amount: 1

Conc: 310



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:23
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB13037.D
Inj. Date and Time: 13-FEB-2013 22:17
Instrument ID: BSMC5973.i
Client ID: CV0748C-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

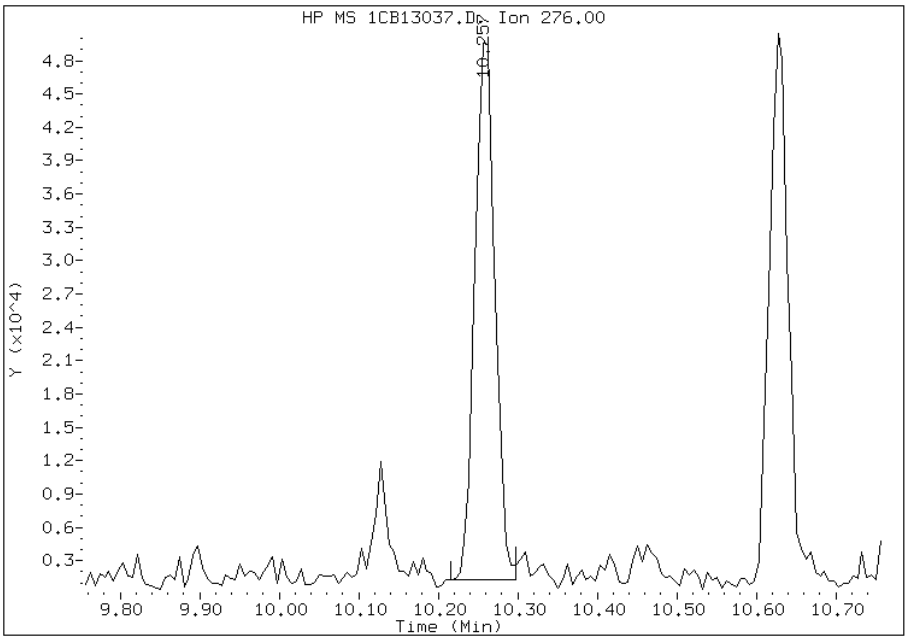
Processing Integration Results

RT: 10.26

Response: 84614

Amount: 1

Conc: 374



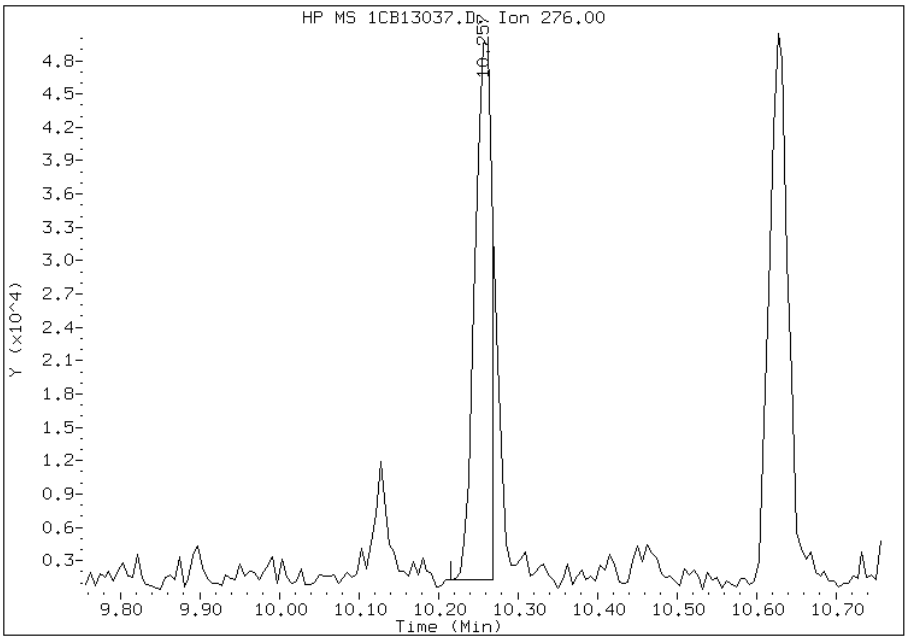
Manual Integration Results

RT: 10.26

Response: 72141

Amount: 1

Conc: 319



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:23
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0748C-CSD | Lab Sample ID: 680-87218-14

Matrix: Solid | Lab File ID: 1CB14008.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:51

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.19(g) | Date Analyzed: 02/14/2013 16:31

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

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

% Moisture: 34.7 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134493 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	21	J	60	7.6
120-12-7	Anthracene	40		13	6.4
56-55-3	Benzo[a]anthracene	260		12	5.9
50-32-8	Benzo[a]pyrene	250		16	7.9
205-99-2	Benzo[b]fluoranthene	380		18	9.2
191-24-2	Benzo[g,h,i]perylene	160		30	6.7
207-08-9	Benzo[k]fluoranthene	140		12	5.4
218-01-9	Chrysene	290		14	6.8
53-70-3	Dibenz(a,h)anthracene	52		30	6.2
206-44-0	Fluoranthene	540		30	6.0
86-73-7	Fluorene	12	J	30	6.2
193-39-5	Indeno[1,2,3-cd]pyrene	140		30	11
90-12-0	1-Methylnaphthalene	71		60	6.7
91-57-6	2-Methylnaphthalene	61		60	11
91-20-3	Naphthalene	62		60	6.7
85-01-8	Phenanthrene	210	B	12	5.9
129-00-0	Pyrene	440		30	5.6

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14008.D
Lab Smp Id: 680-87218-A-14-A Client Smp ID: CV0748C-CSD
Inj Date : 14-FEB-2013 16:31
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-A-14-A
Misc Info : 680-87218-A-14-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 15:12 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 8
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	15.190	Weight Extracted
M	34.709	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2166051	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.909	(1.000)	1727308	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.862	(1.000)	3282734	40.0000	
$ 14 o-Terphenyl	230	6.109	6.115	(1.042)	301342	6.26496	631.6970
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3925230	40.0000	
* 23 Perylene-d12	264	9.027	9.039	(1.000)	4027927	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	35109	0.61168	61.6758
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	22563	0.60456	60.9580
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	23967	0.70609	71.1953
5 Acenaphthylene	152	4.821	4.821	(0.983)	14095	0.20511	20.6811
9 Fluorene	166	5.245	5.251	(1.070)	6468	0.11691	11.7878(Q)
11 Phenanthrene	178	5.874	5.880	(1.002)	200492	2.04610	206.3084
12 Anthracene	178	5.909	5.909	(1.008)	34929	0.39565	39.8929
13 Carbazole	167	6.015	6.015	(1.026)	26956	0.35152	35.4434

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	514330	5.37175	541.6335
16 Pyrene	202	6.886	6.886	(0.882)	455159	4.35562	439.1777
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	283855	2.62237	264.4139
19 Chrysene	228	7.827	7.833	(1.002)	320144	2.86329	288.7055
20 Benzo(b)fluoranthene	252	8.662	8.674	(0.960)	371201	3.75894	379.0138(M)
21 Benzo(k)fluoranthene	252	8.686	8.697	(0.962)	145941	1.34147	135.2608(M)
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	229375	2.44100	246.1260
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.268	(1.136)	128596	1.42482	143.6650(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.286	(1.137)	44038	0.51742	52.1712
26 Benzo(g,h,i)perylene	276	10.615	10.639	(1.176)	142400	1.55323	156.6121

QC Flag Legend

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

Data File: 1CB14008.D

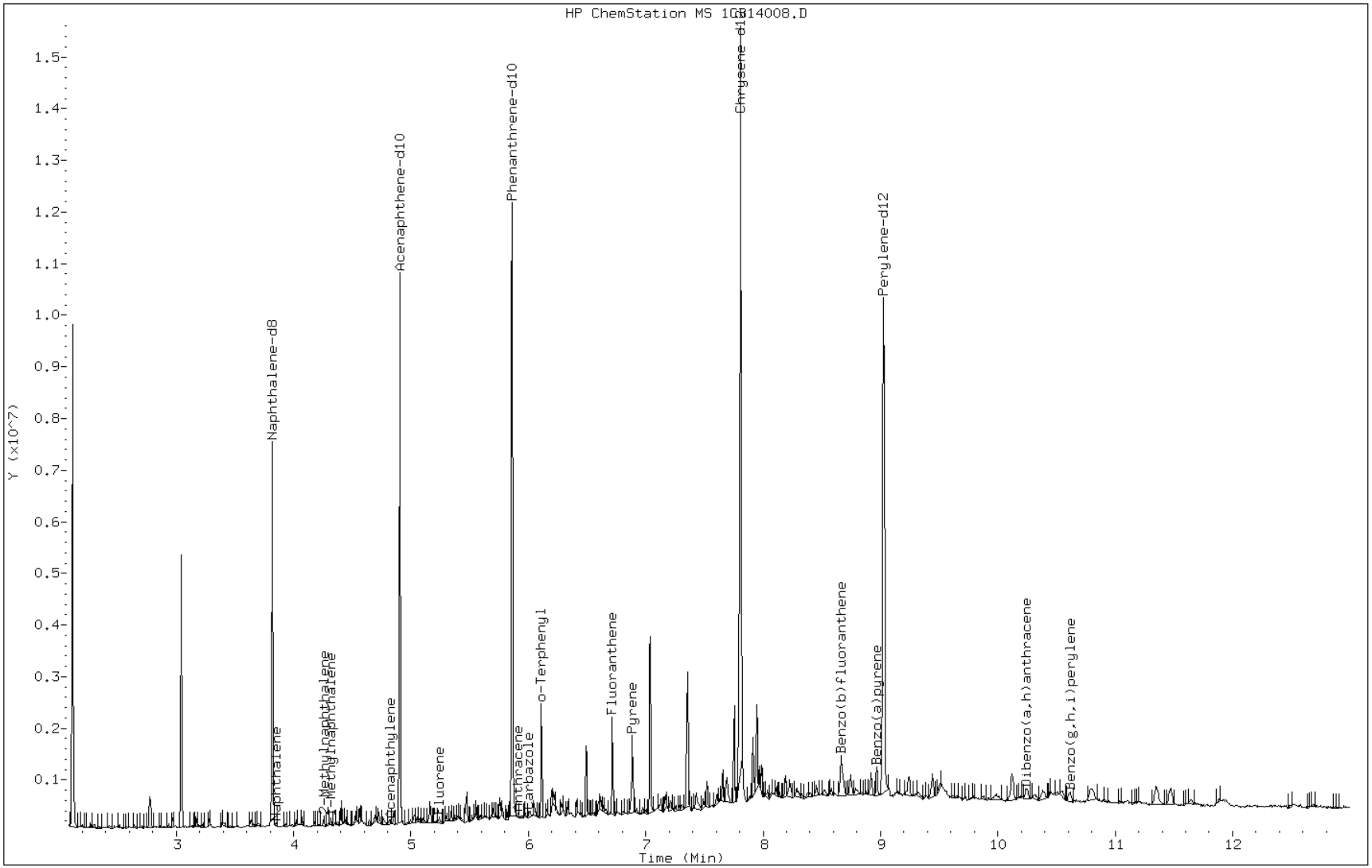
Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD

Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A

Operator: SCC



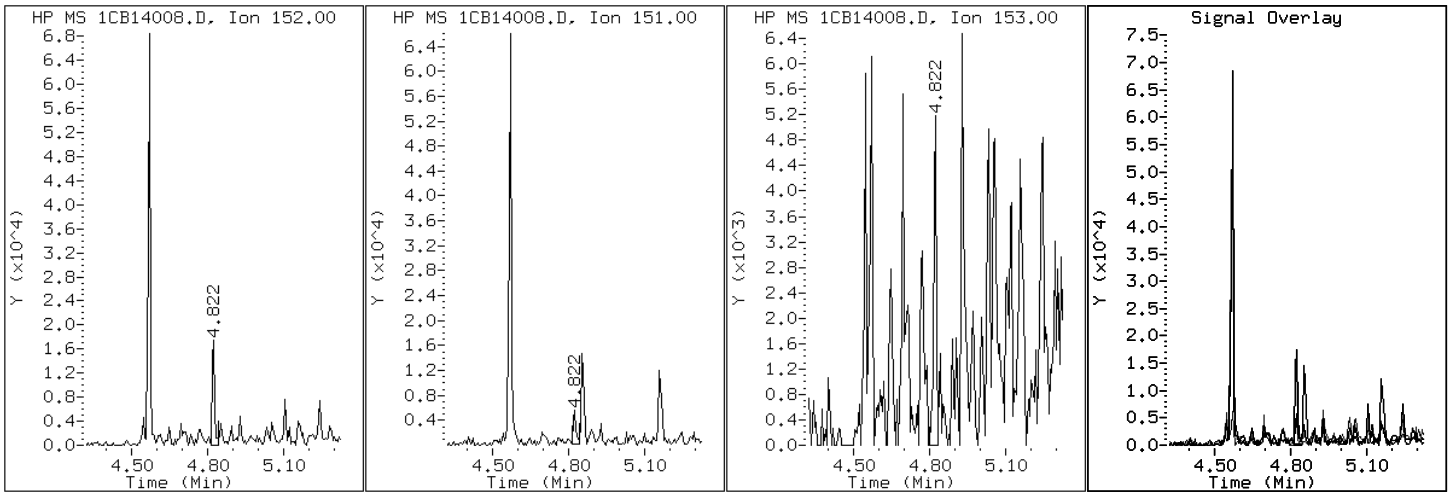
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

5 Acenaphthylene



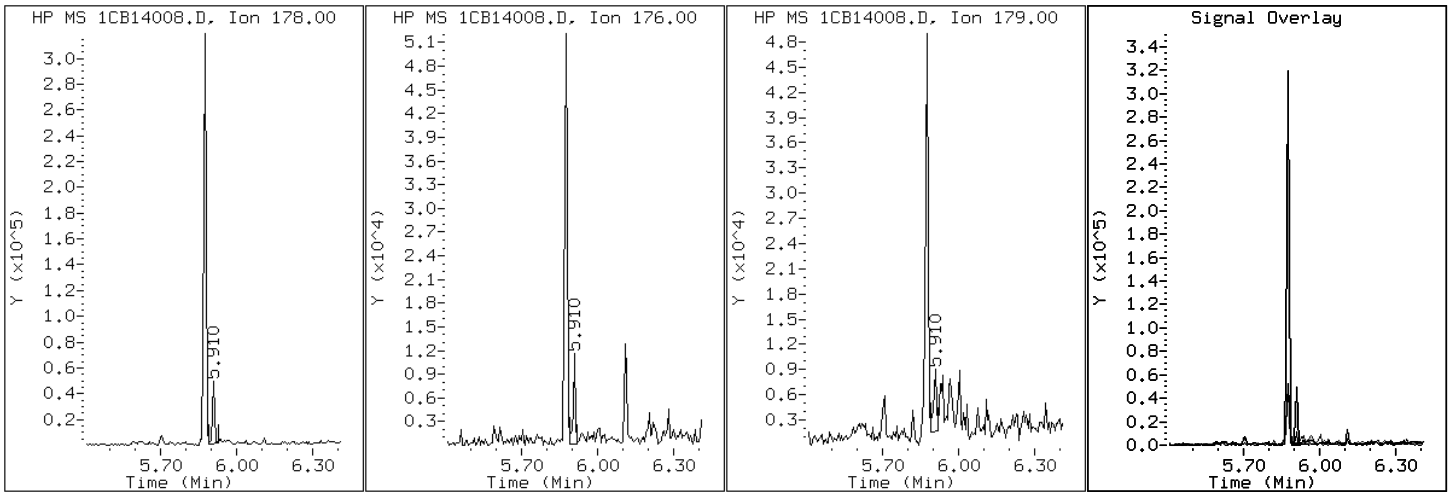
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

12 Anthracene



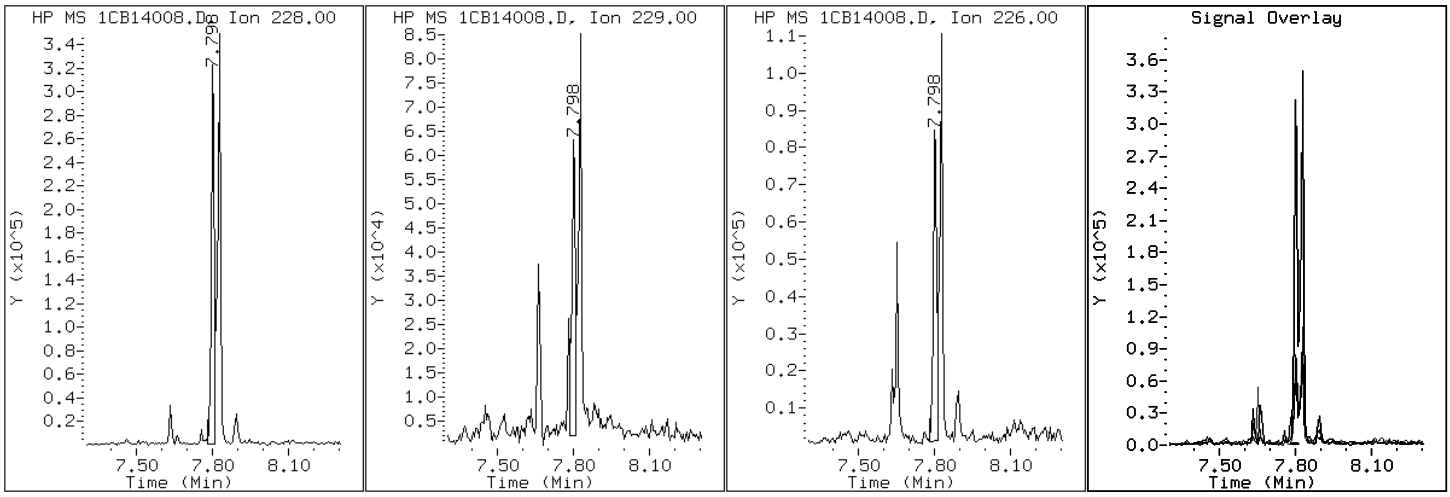
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

17 Benzo(a)anthracene



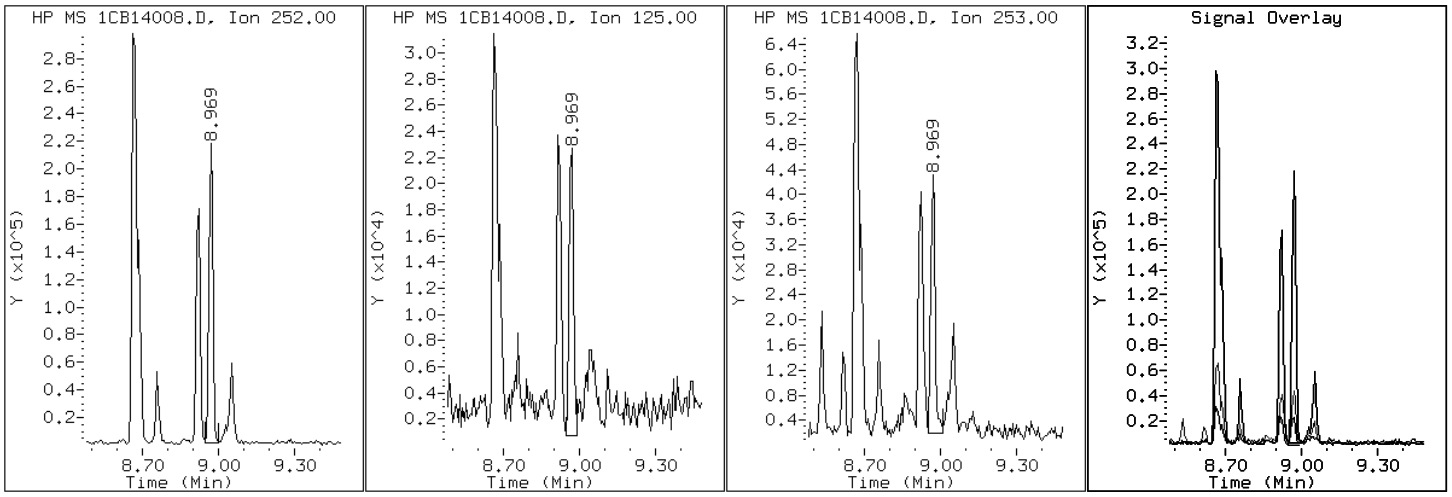
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

22 Benzo(a)pyrene



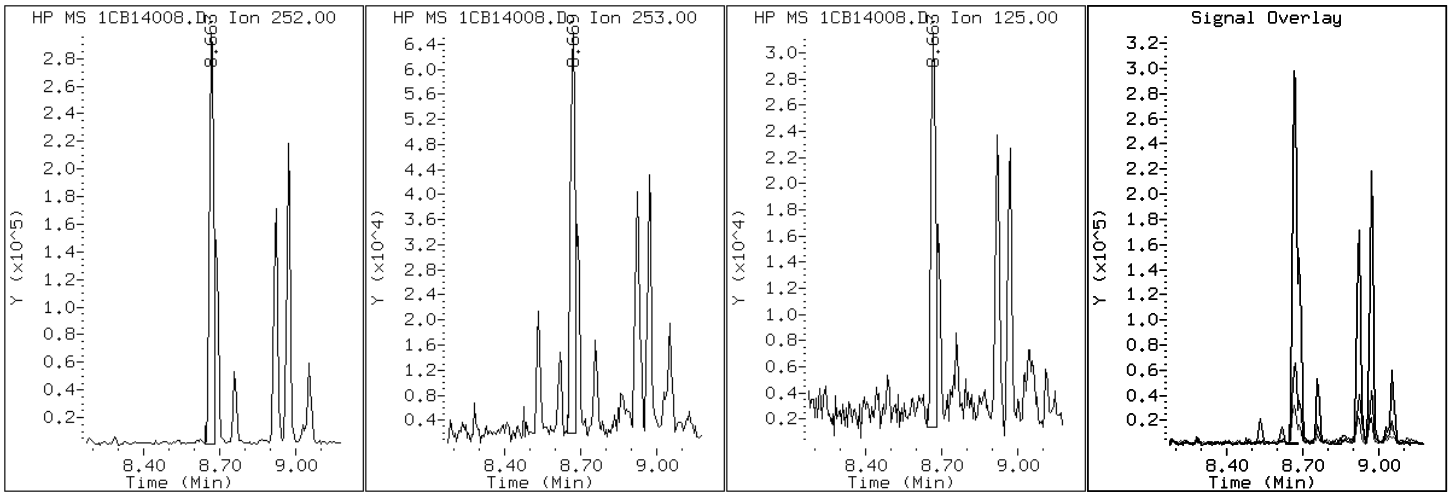
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

20 Benzo(b)fluoranthene



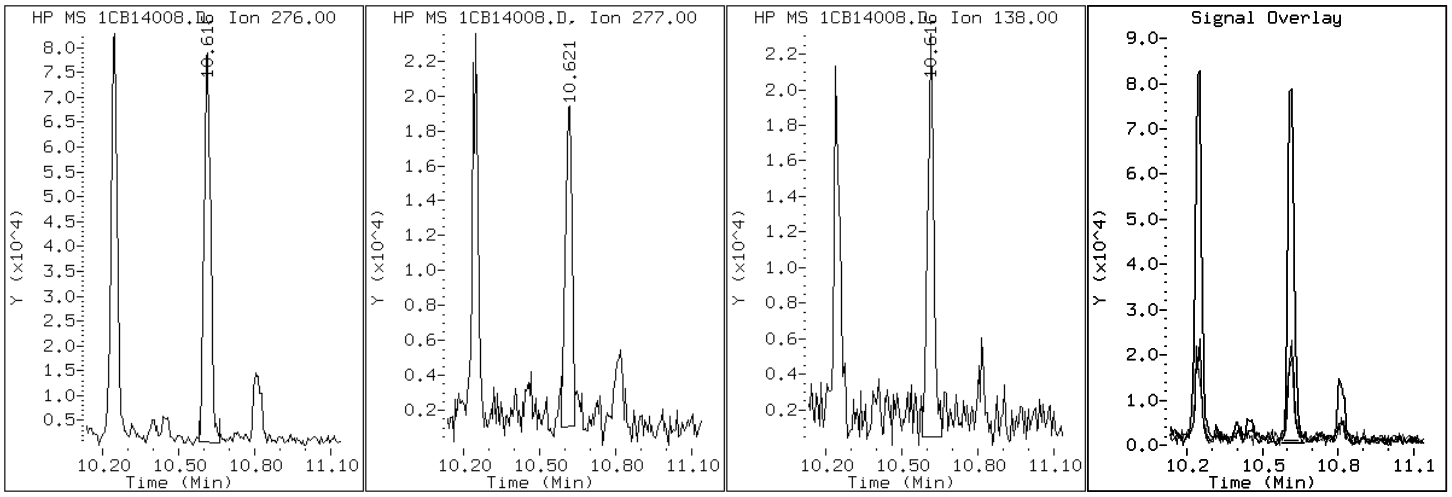
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

26 Benzo(g,h,i)perylene



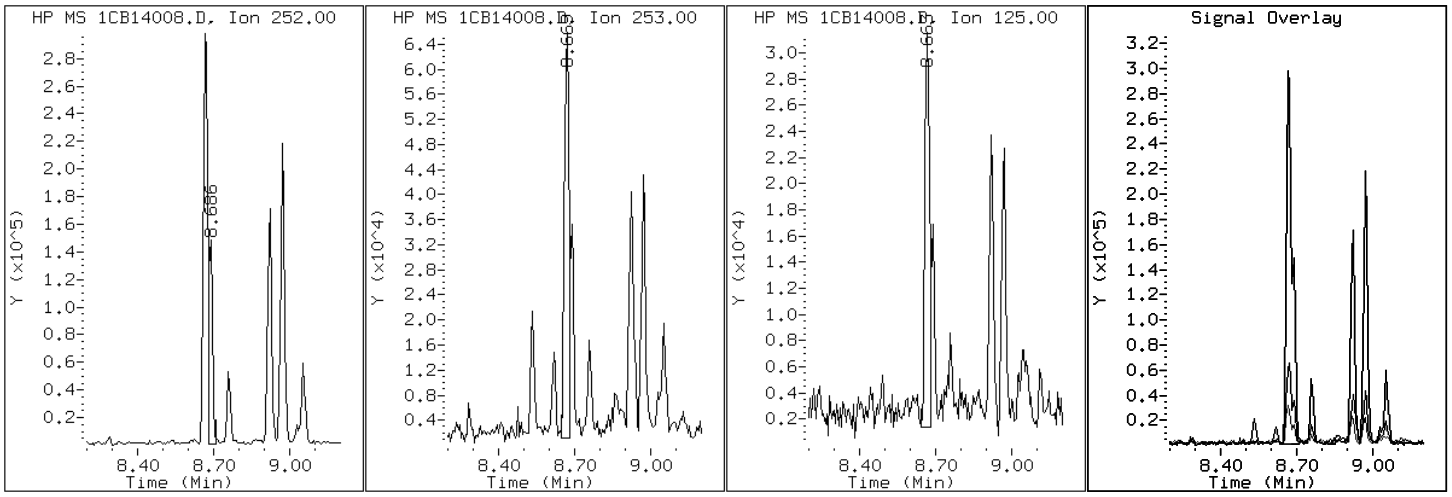
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

21 Benzo(k)fluoranthene



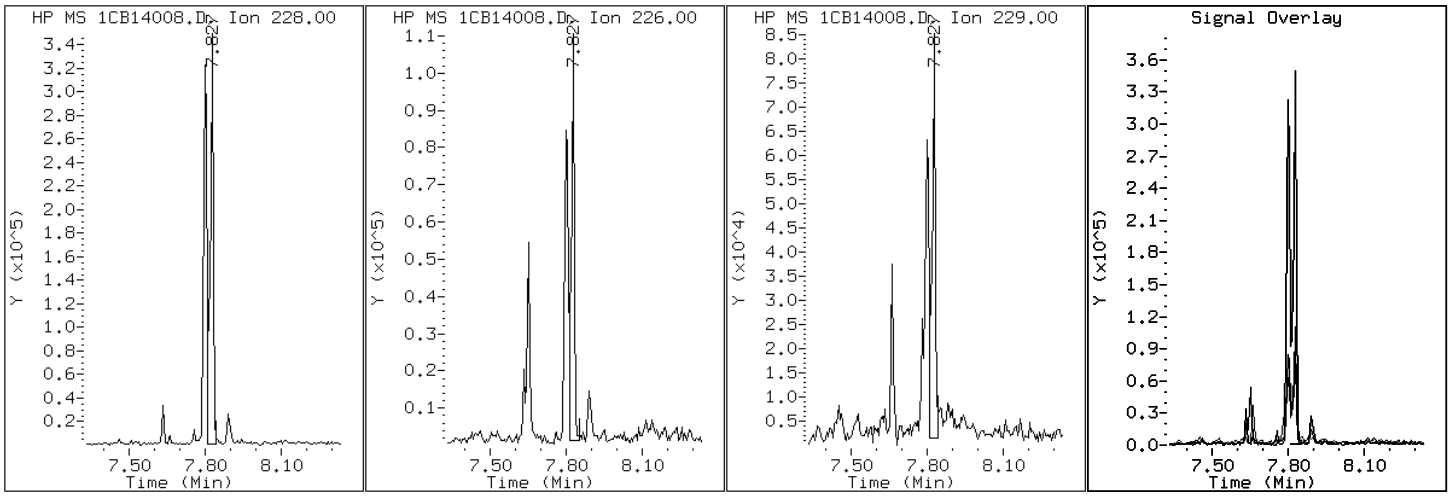
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

19 Chrysene



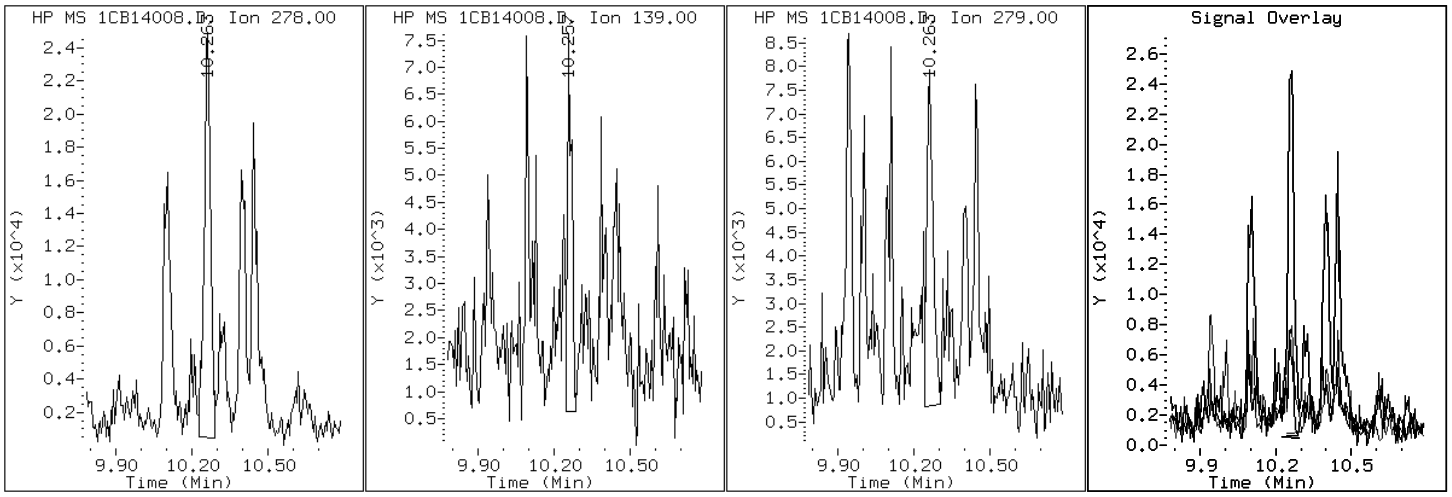
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

25 Dibenzo(a,h)anthracene



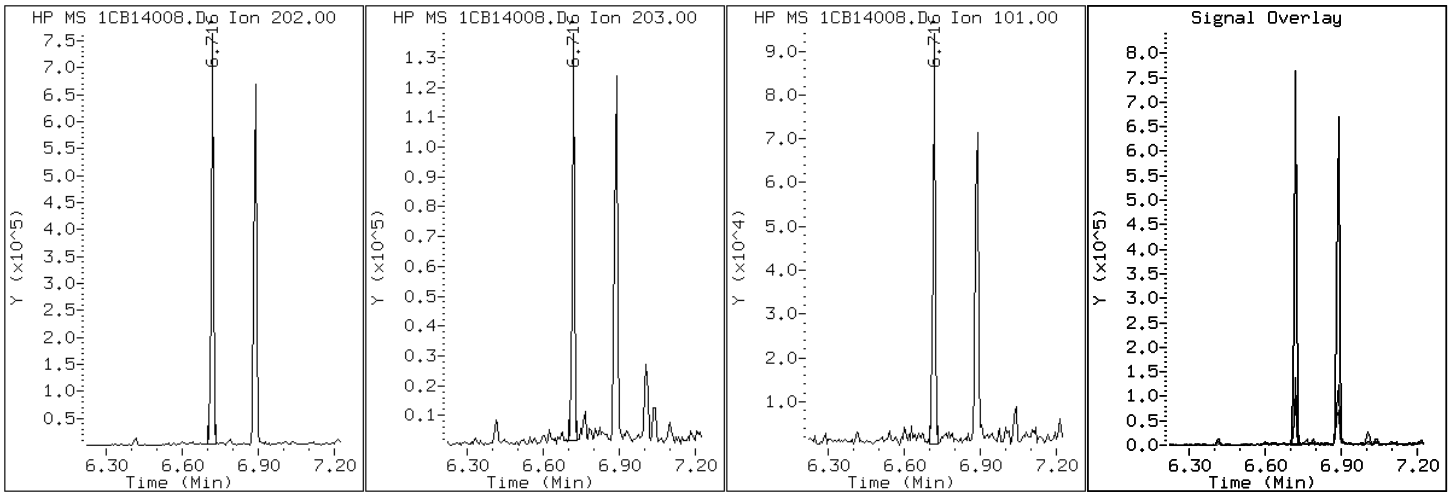
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

15 Fluoranthene



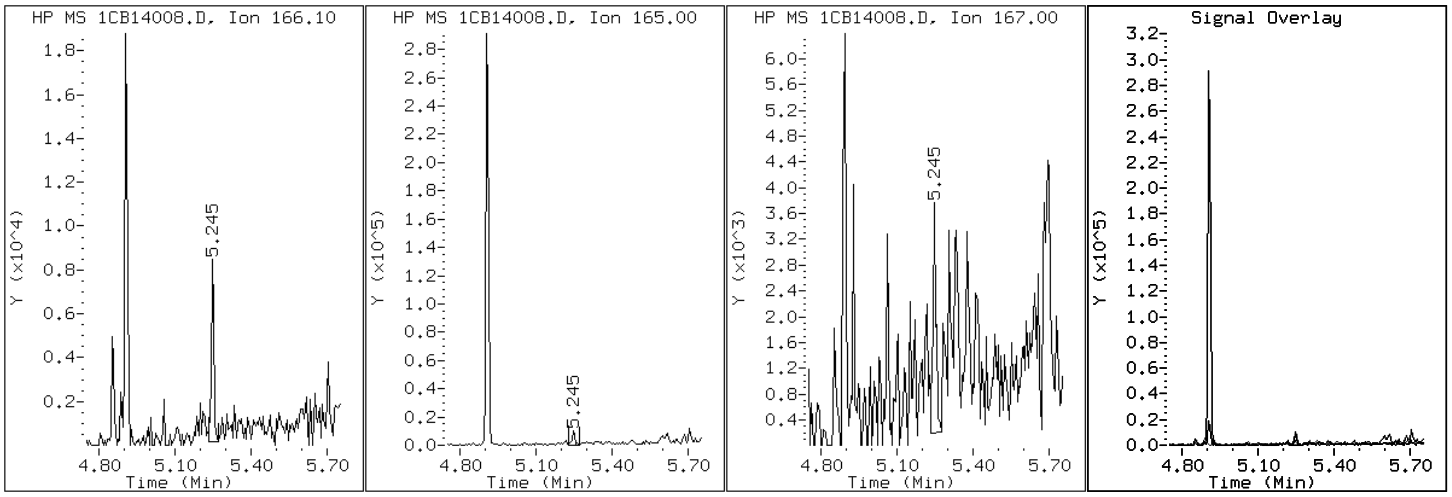
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

9 Fluorene



Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

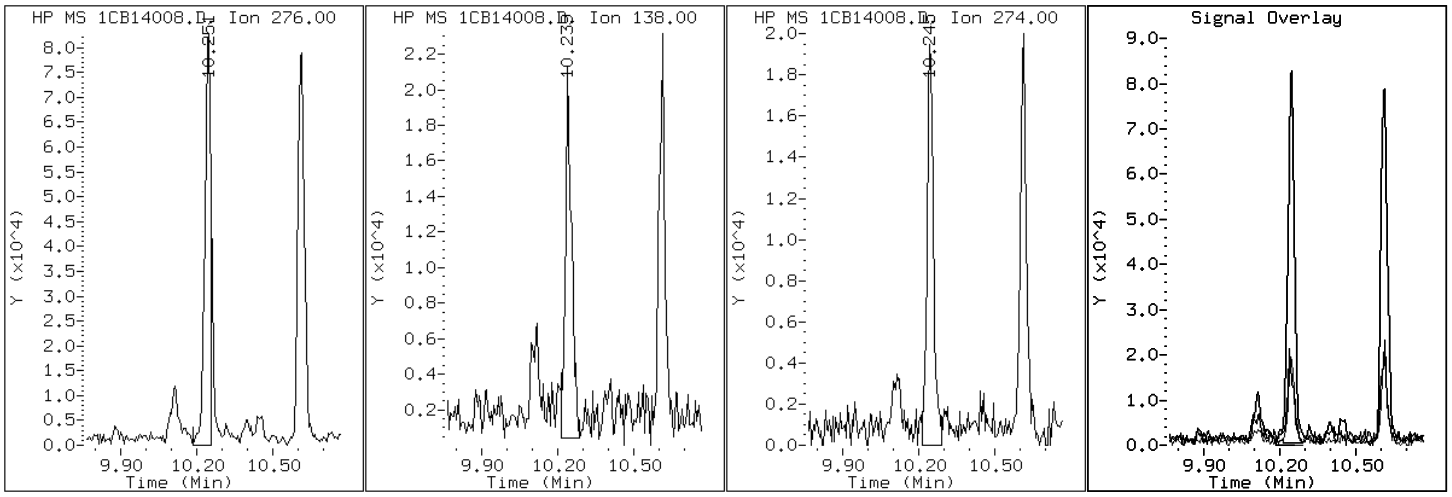
Client ID: CV0748C-CSD

Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A

Operator: SCC

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



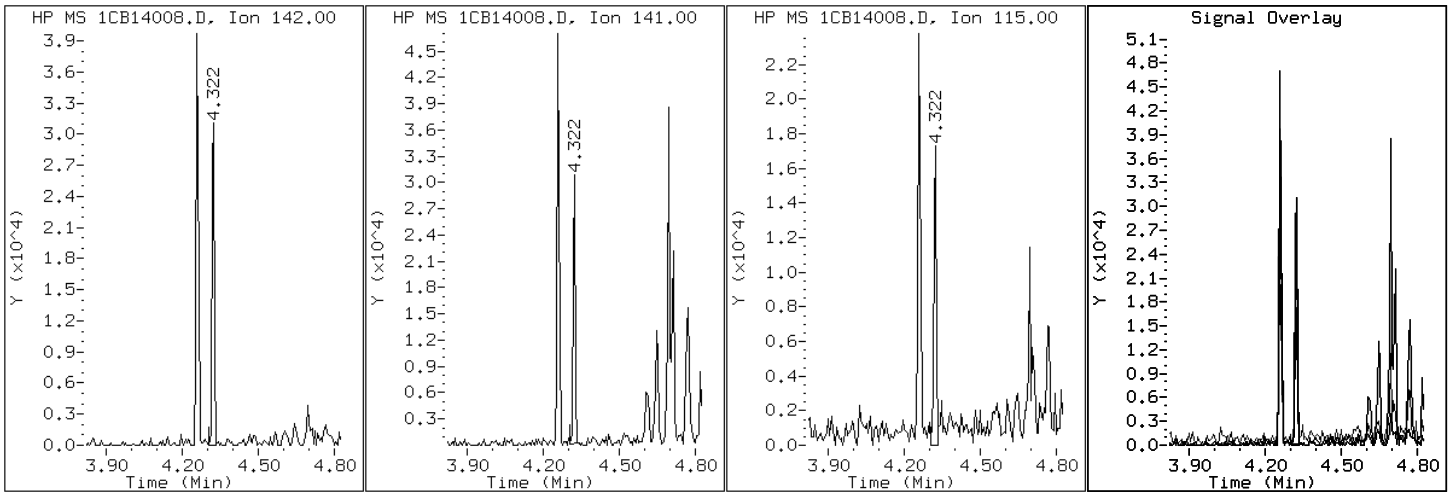
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

4 1-Methylnaphthalene



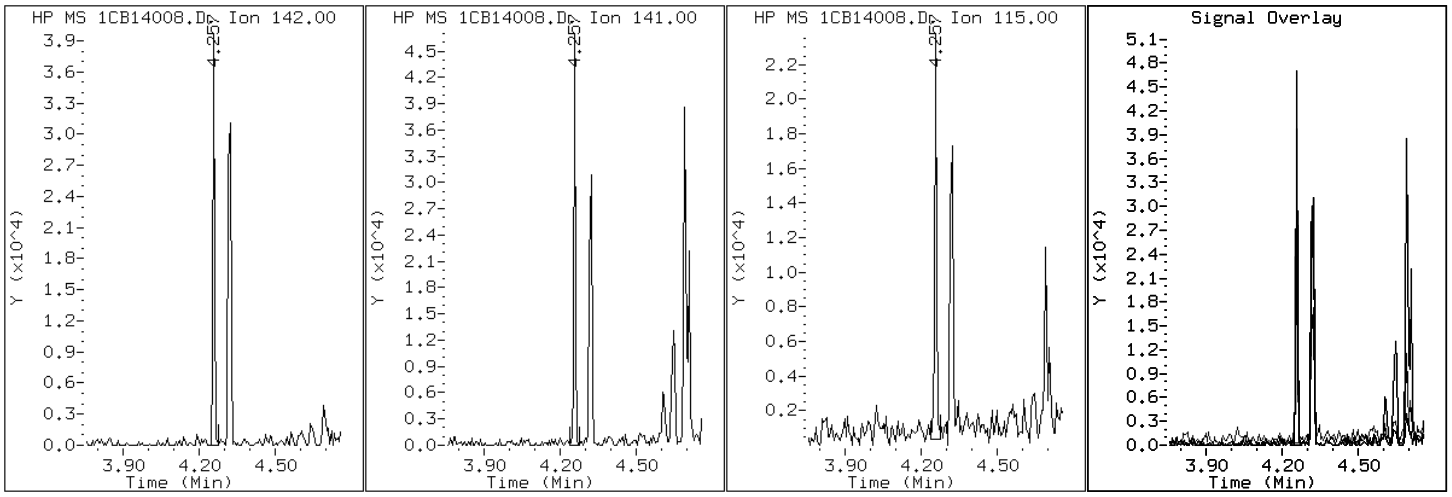
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

3 2-Methylnaphthalene



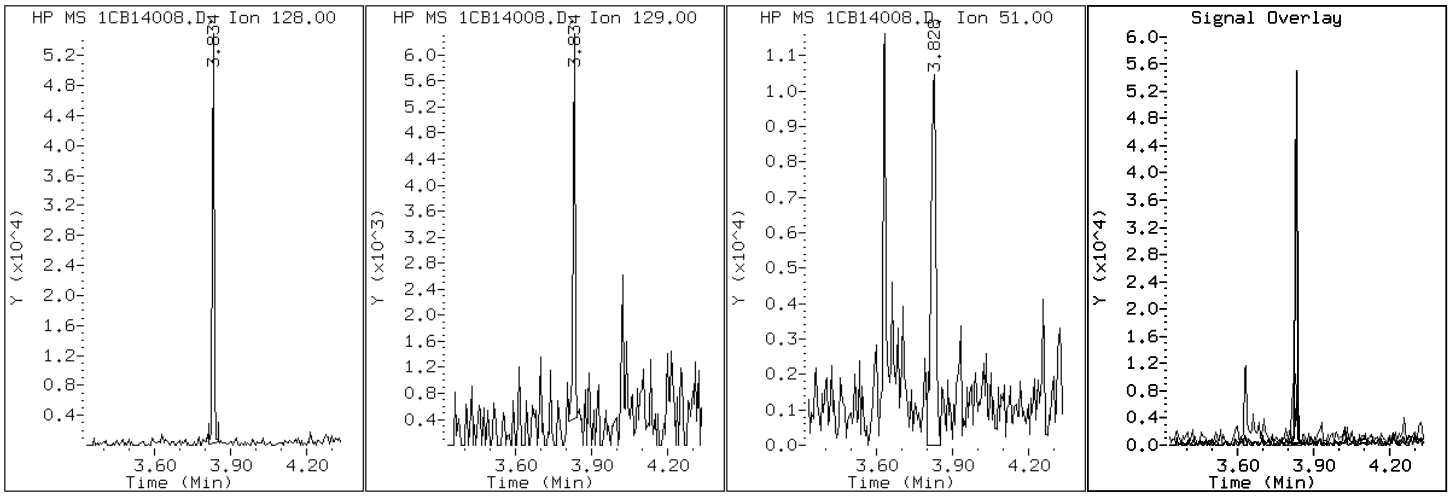
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

2 Naphthalene



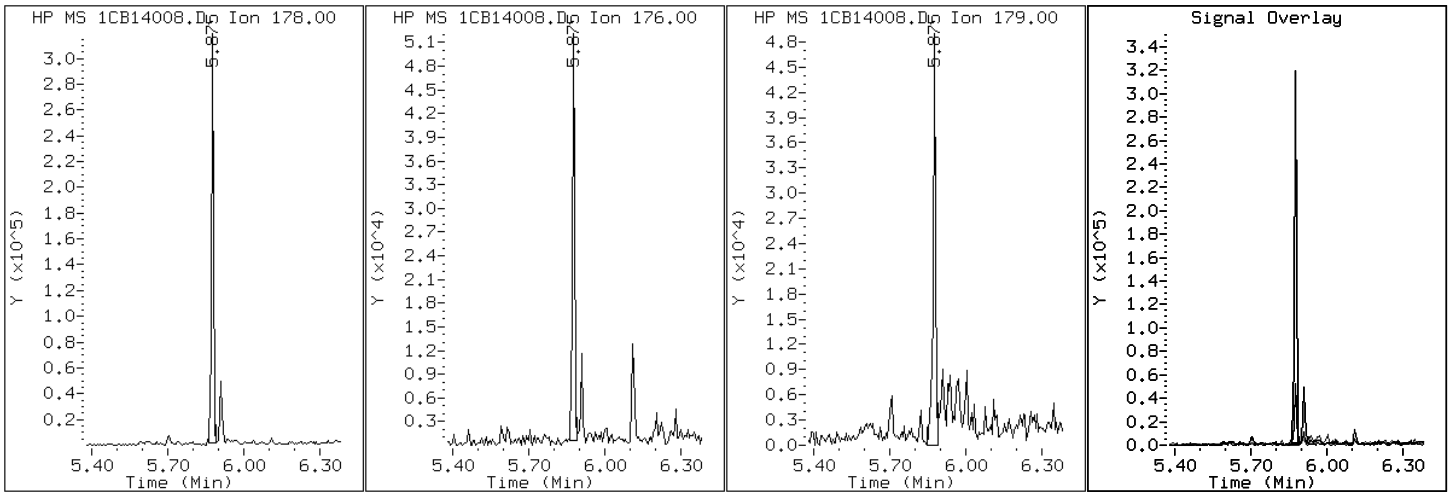
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

11 Phenanthrene



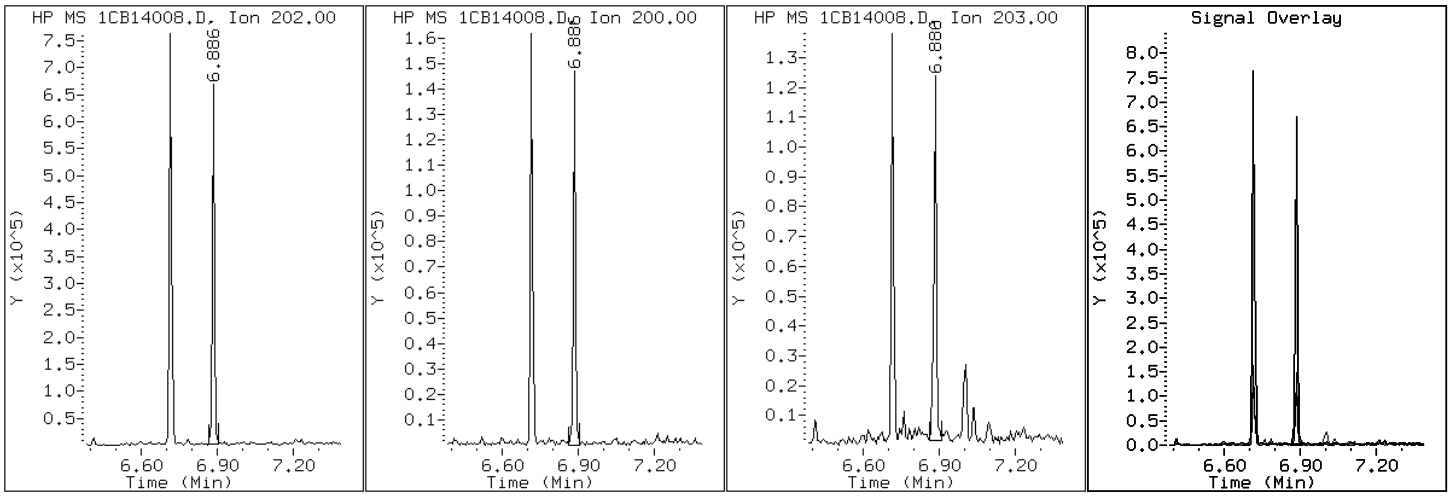
Data File: 1CB14008.D

Date: 14-FEB-2013 16:31

Client ID: CV0748C-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-14-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB14008.D
Inj. Date and Time: 14-FEB-2013 16:31
Instrument ID: BSMC5973.i
Client ID: CV0748C-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

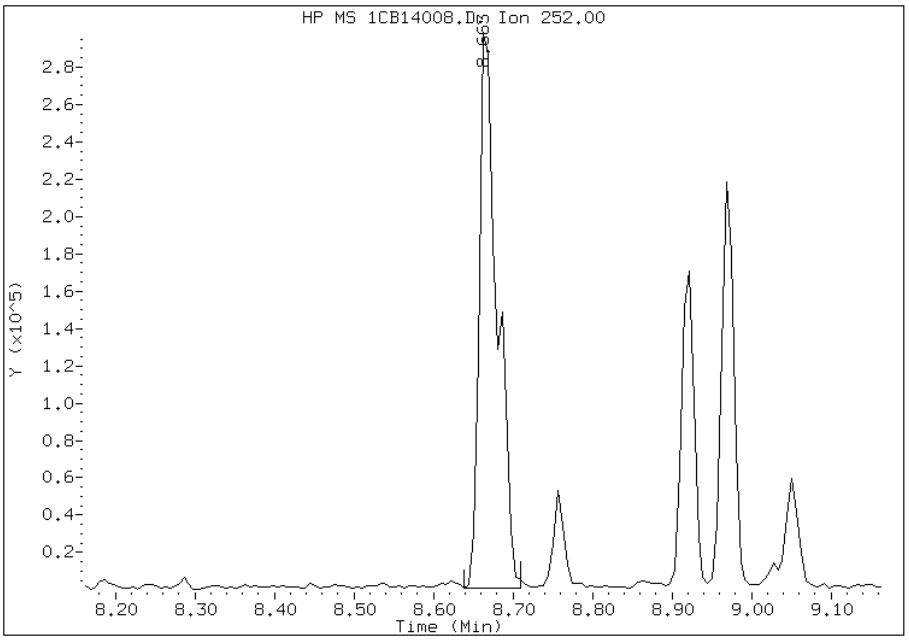
Processing Integration Results

RT: 8.66

Response: 472458

Amount: 5

Conc: 482



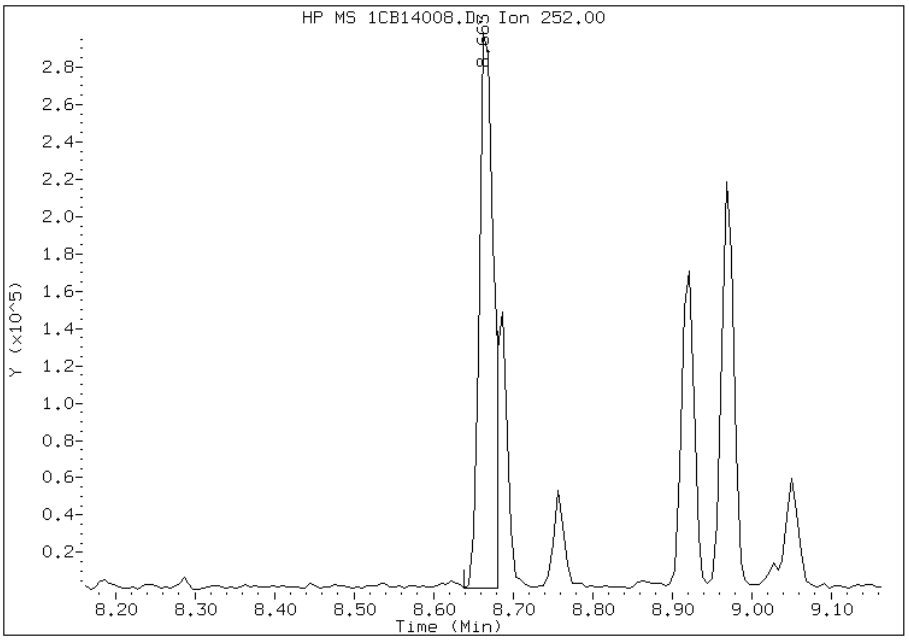
Manual Integration Results

RT: 8.66

Response: 371201

Amount: 4

Conc: 379



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 17:29
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB14008.D
Inj. Date and Time: 14-FEB-2013 16:31
Instrument ID: BSMC5973.i
Client ID: CV0748C-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

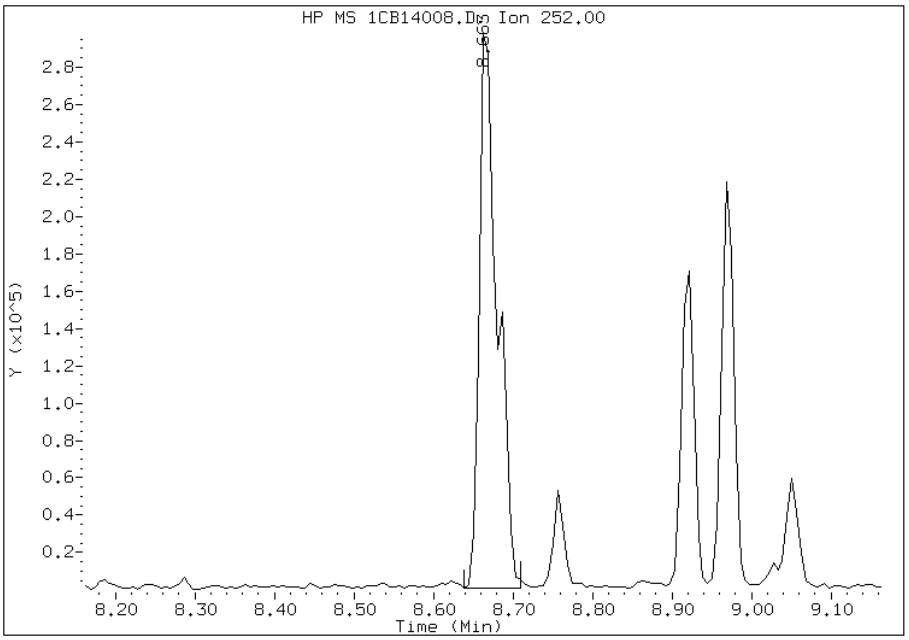
Processing Integration Results

RT: 8.66

Response: 472458

Amount: 4

Conc: 438



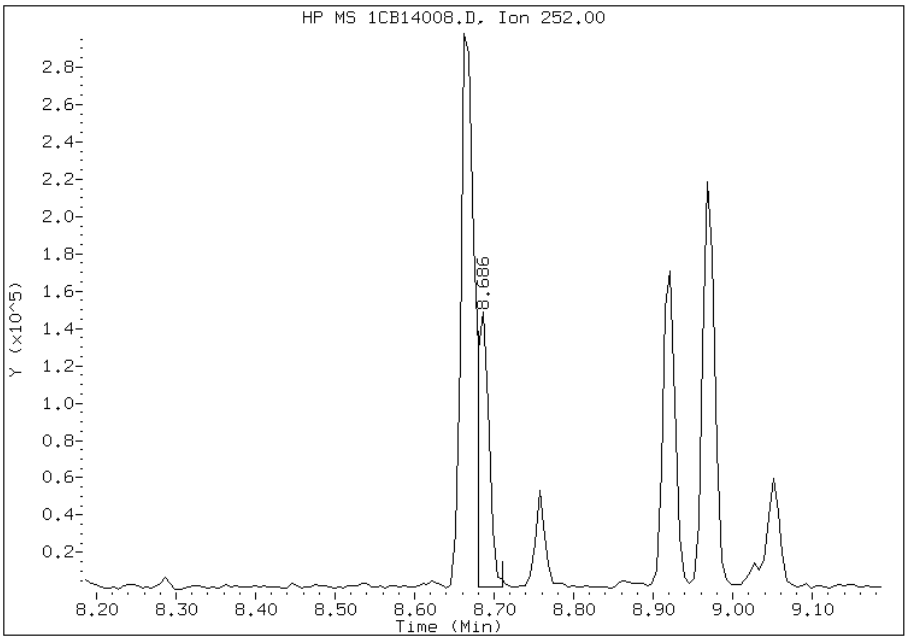
Manual Integration Results

RT: 8.69

Response: 145941

Amount: 1

Conc: 135



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 17:29
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB14008.D
Inj. Date and Time: 14-FEB-2013 16:31
Instrument ID: BSMC5973.i
Client ID: CV0748C-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

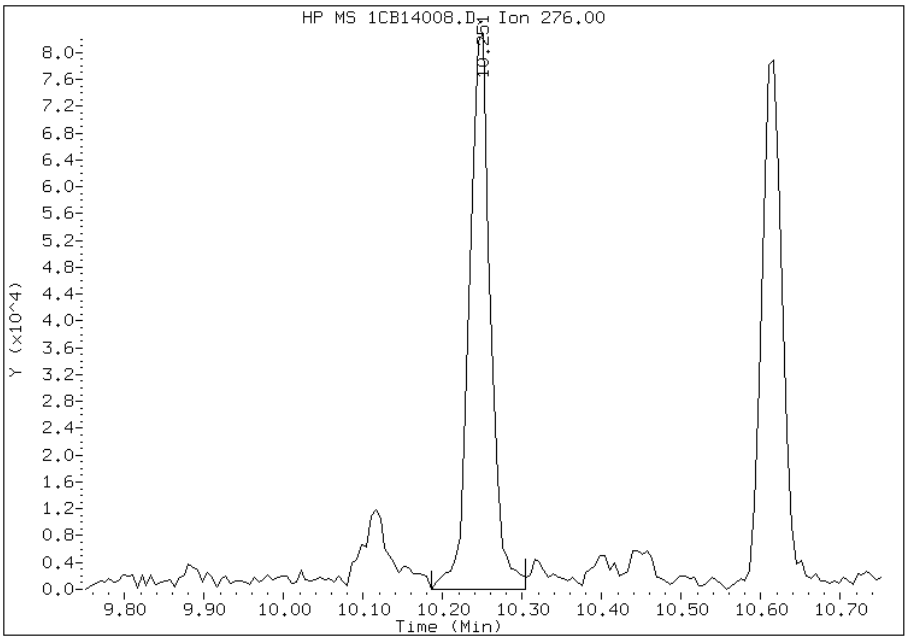
Processing Integration Results

RT: 10.25

Response: 153413

Amount: 2

Conc: 171



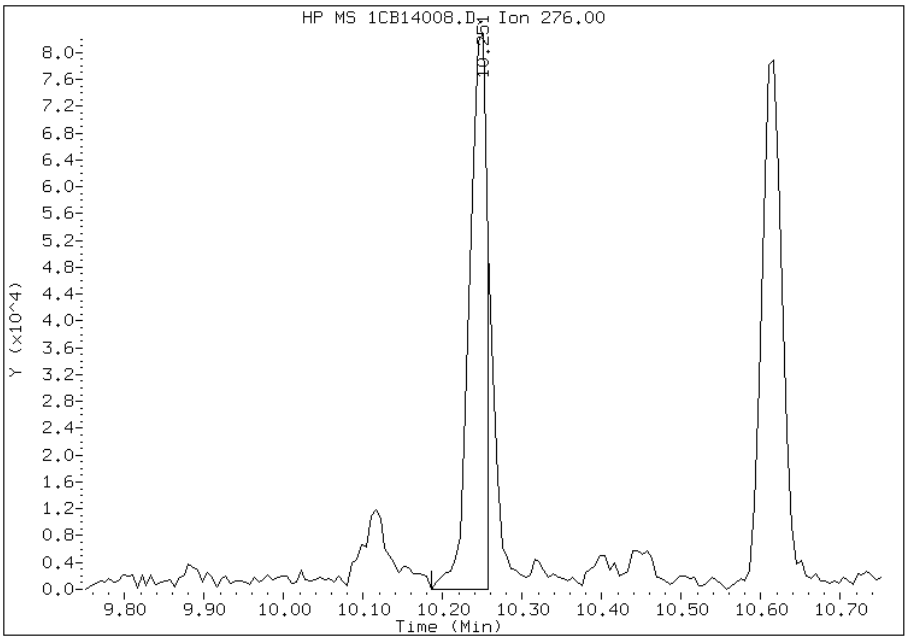
Manual Integration Results

RT: 10.25

Response: 128596

Amount: 1

Conc: 144



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 17:30
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0748D-CS | Lab Sample ID: 680-87218-15

Matrix: Solid | Lab File ID: 1CB14009.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:56

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.21(g) | Date Analyzed: 02/14/2013 16:49

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

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

% Moisture: 32.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134493 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	29
208-96-8	Acenaphthylene	12	J	59	7.3
120-12-7	Anthracene	14		12	6.1
56-55-3	Benzo[a]anthracene	110		12	5.7
50-32-8	Benzo[a]pyrene	120		15	7.6
205-99-2	Benzo[b]fluoranthene	180		18	8.9
191-24-2	Benzo[g,h,i]perylene	77		29	6.4
207-08-9	Benzo[k]fluoranthene	66		12	5.3
218-01-9	Chrysene	130		13	6.6
53-70-3	Dibenz(a,h)anthracene	22	J	29	6.0
206-44-0	Fluoranthene	210		29	5.9
86-73-7	Fluorene	6.4	J	29	6.0
193-39-5	Indeno[1,2,3-cd]pyrene	64		29	10
90-12-0	1-Methylnaphthalene	39	J	59	6.4
91-57-6	2-Methylnaphthalene	46	J	59	10
91-20-3	Naphthalene	46	J	59	6.4
85-01-8	Phenanthrene	81	B	12	5.7
129-00-0	Pyrene	170		29	5.4

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\BSMC5973.i\1C021413.b\1CB14009.D
Lab Smp Id: 680-87218-A-15-A Client Smp ID: CV0748D-CS
Inj Date : 14-FEB-2013 16:49
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-A-15-A
Misc Info : 680-87218-A-15-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 15:12 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 9
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	32.630	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.821	(1.000)	2100169	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.909	(1.000)	1647766	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.862	(1.000)	3214720	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	301441	6.39961	624.5327
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3888481	40.0000	
* 23 Perylene-d12	264	9.027	9.039	(1.000)	3765885	40.0000	
2 Naphthalene	128	3.833	3.833	(1.005)	26408	0.47452	46.3082
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	16956	0.46858	45.7280
4 1-Methylnaphthalene	142	4.321	4.321	(1.133)	13141	0.39929	38.9665
5 Acenaphthylene	152	4.821	4.821	(0.983)	7834	0.11950	11.6621
9 Fluorene	166	5.245	5.251	(1.070)	3469	0.06573	6.4143
11 Phenanthrene	178	5.874	5.880	(1.002)	79419	0.82765	80.7696
12 Anthracene	178	5.910	5.909	(1.008)	12798	0.14803	14.4462
13 Carbazole	167	6.015	6.015	(1.026)	12497	0.16641	16.2401

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	199367	2.12627	207.5012
16 Pyrene	202	6.886	6.886	(0.882)	176694	1.70684	166.5694
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	125831	1.17347	114.5174
19 Chrysene	228	7.827	7.833	(1.002)	144529	1.30485	127.3389
20 Benzo(b)fluoranthene	252	8.662	8.674	(0.960)	174383	1.88875	184.3214(M)
21 Benzo(k)fluoranthene	252	8.686	8.697	(0.962)	69138	0.67973	66.3341(QM)
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	106207	1.20890	117.9751
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.268	(1.135)	55161	0.65370	63.7942(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.286	(1.136)	17785	0.22350	21.8113
26 Benzo(g,h,i)perylene	276	10.615	10.639	(1.176)	67542	0.78798	76.8980

QC Flag Legend

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

Data File: 1CB14009.D

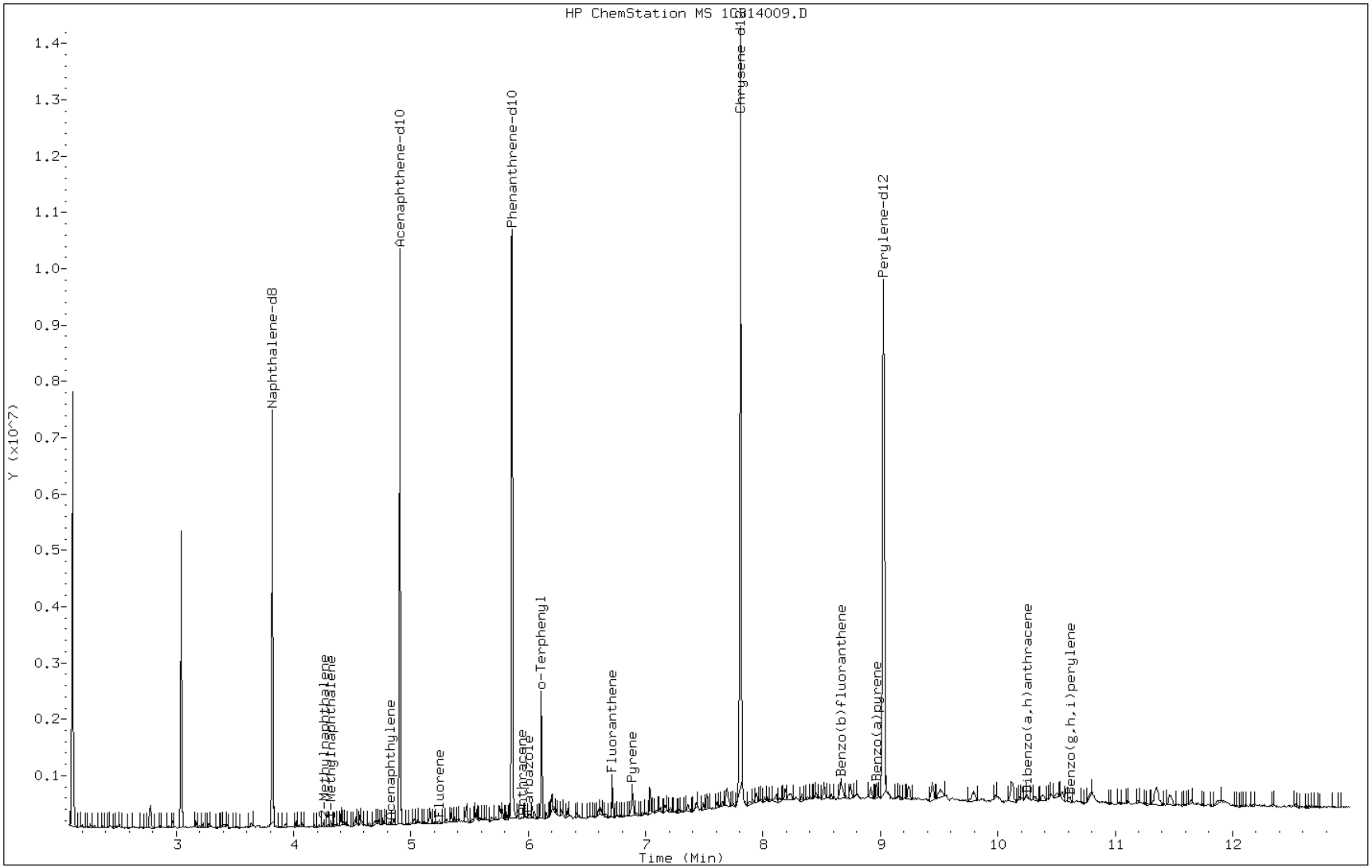
Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A

Operator: SCC



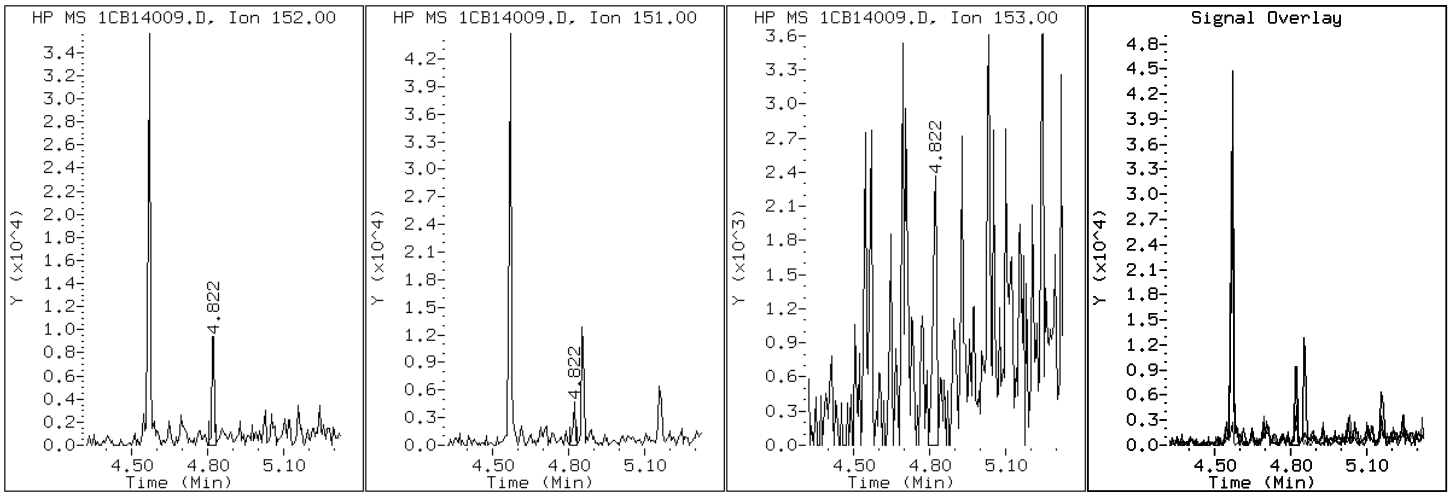
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

5 Acenaphthylene



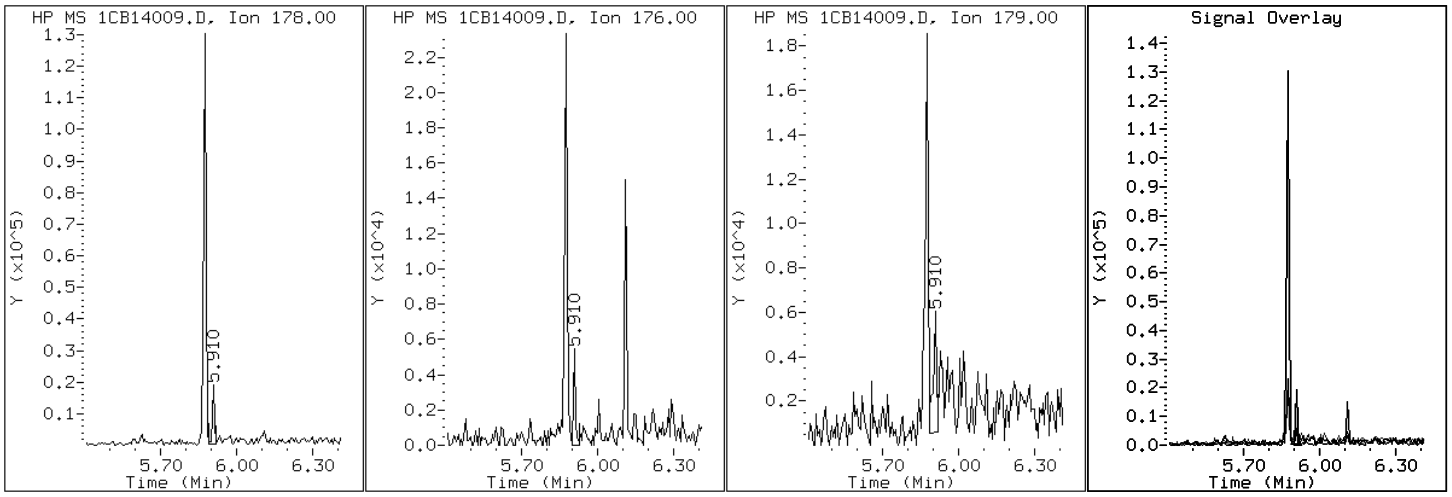
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

12 Anthracene



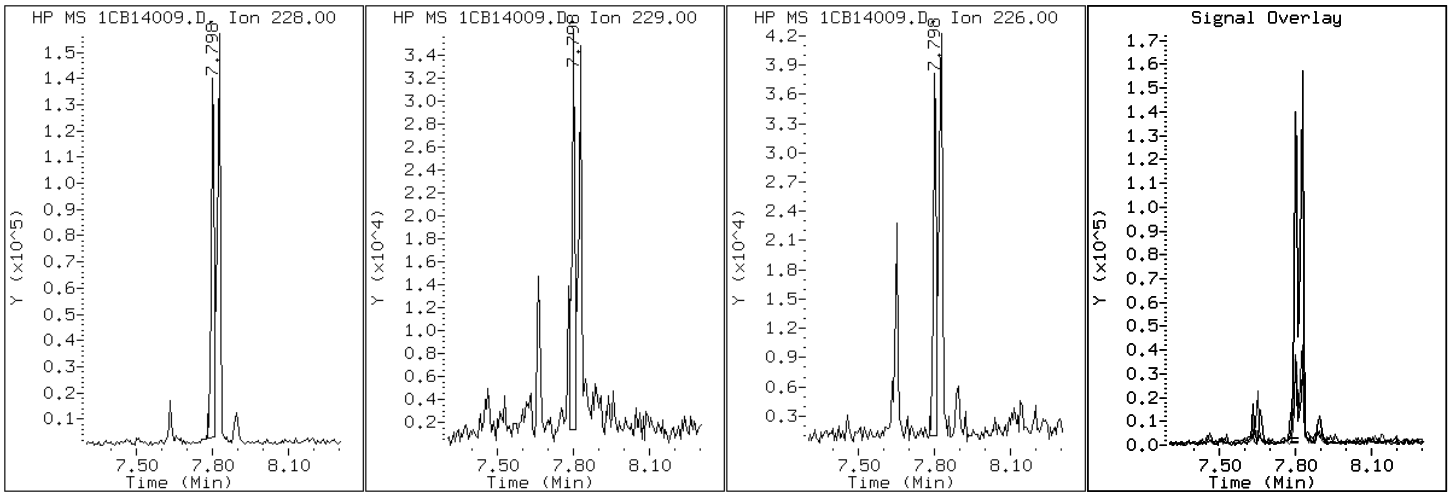
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

17 Benzo(a)anthracene



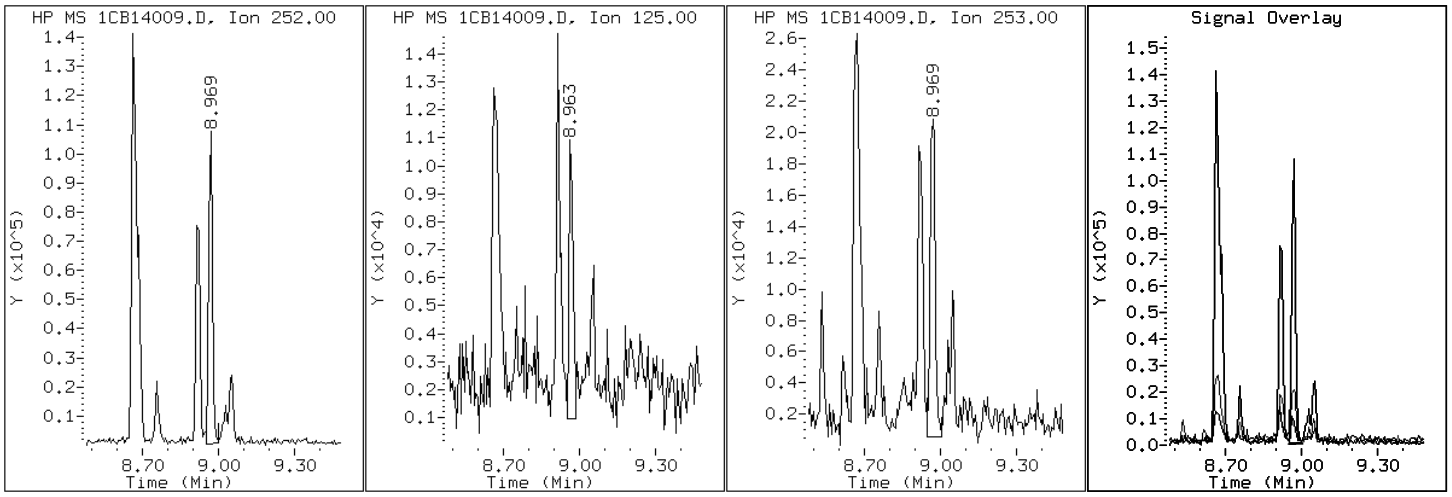
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

22 Benzo(a)pyrene



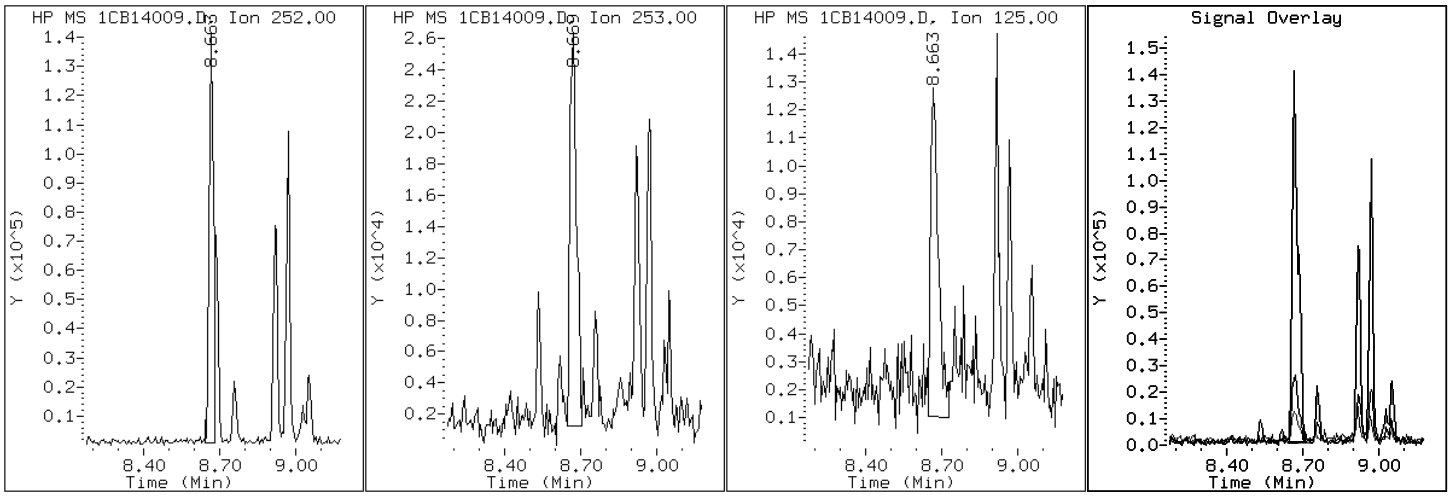
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

20 Benzo(b)fluoranthene



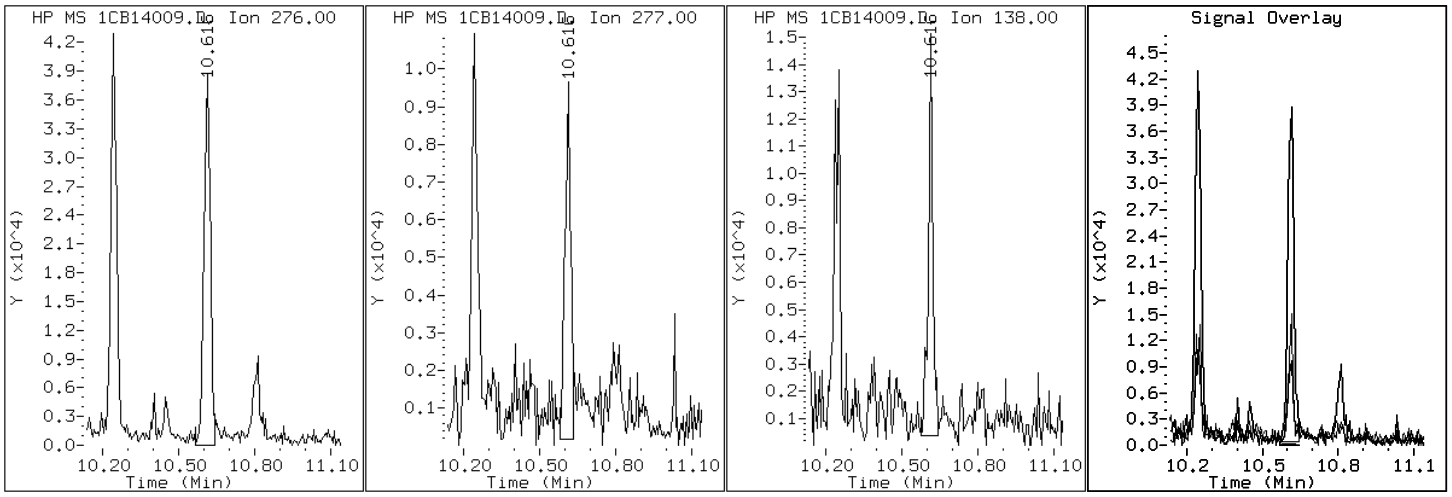
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

26 Benzo(g,h,i)perylene



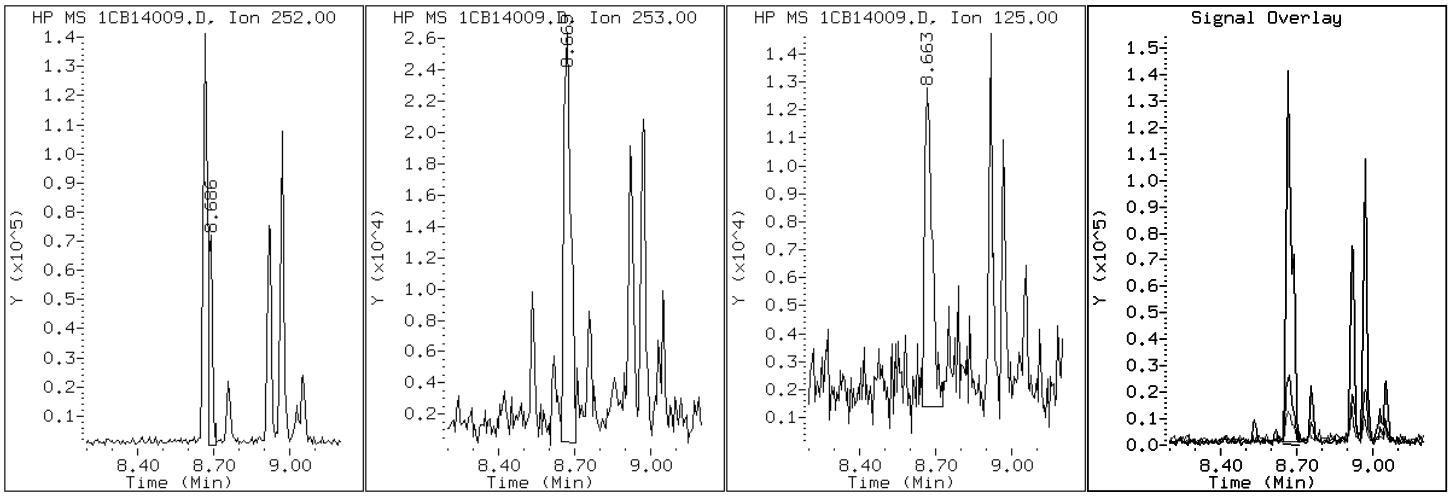
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

21 Benzo(k)fluoranthene



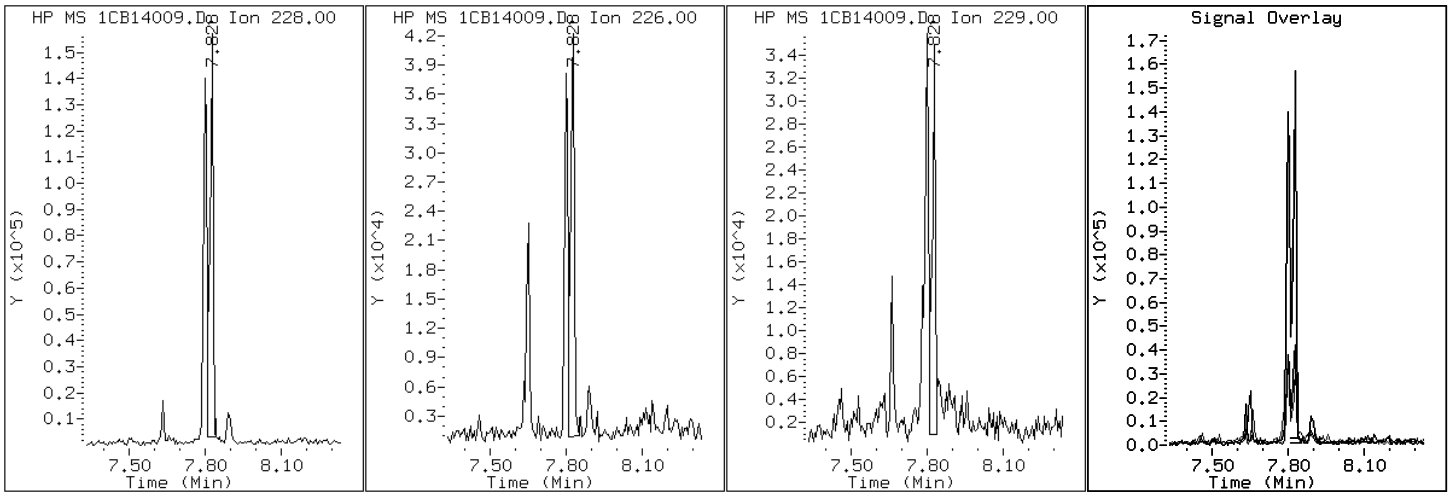
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

19 Chrysene



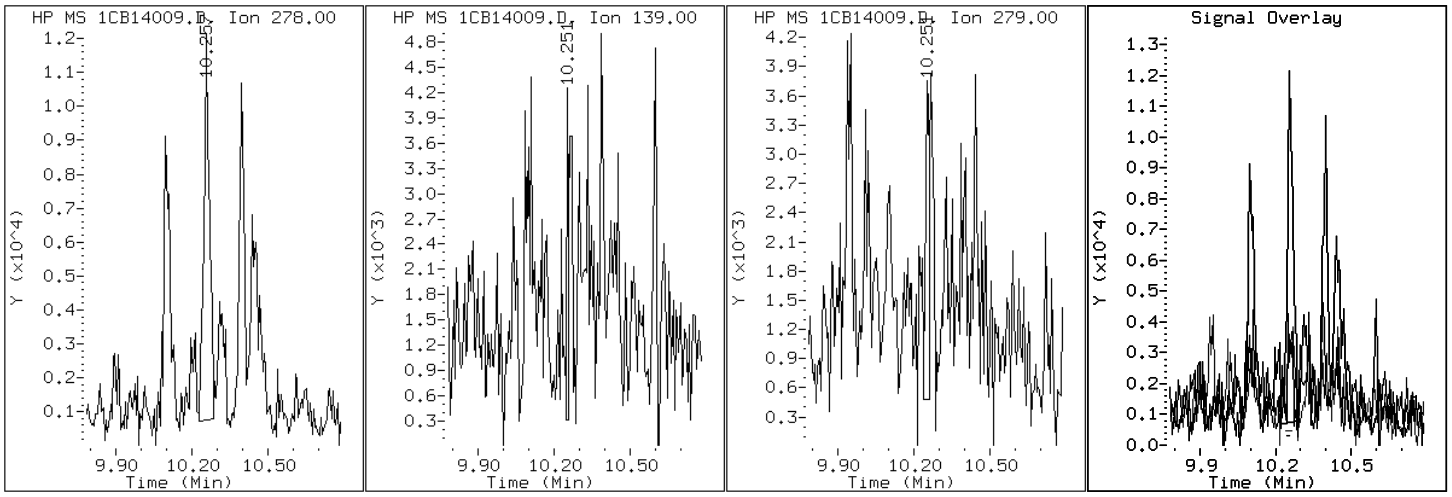
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

25 Dibenzo(a,h)anthracene



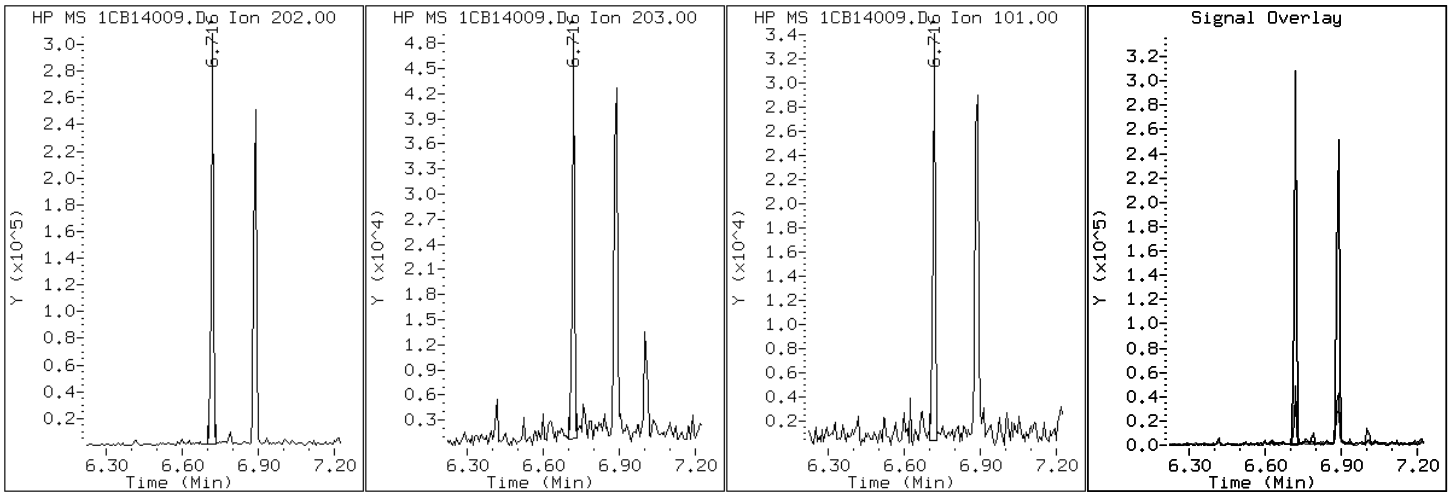
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

15 Fluoranthene



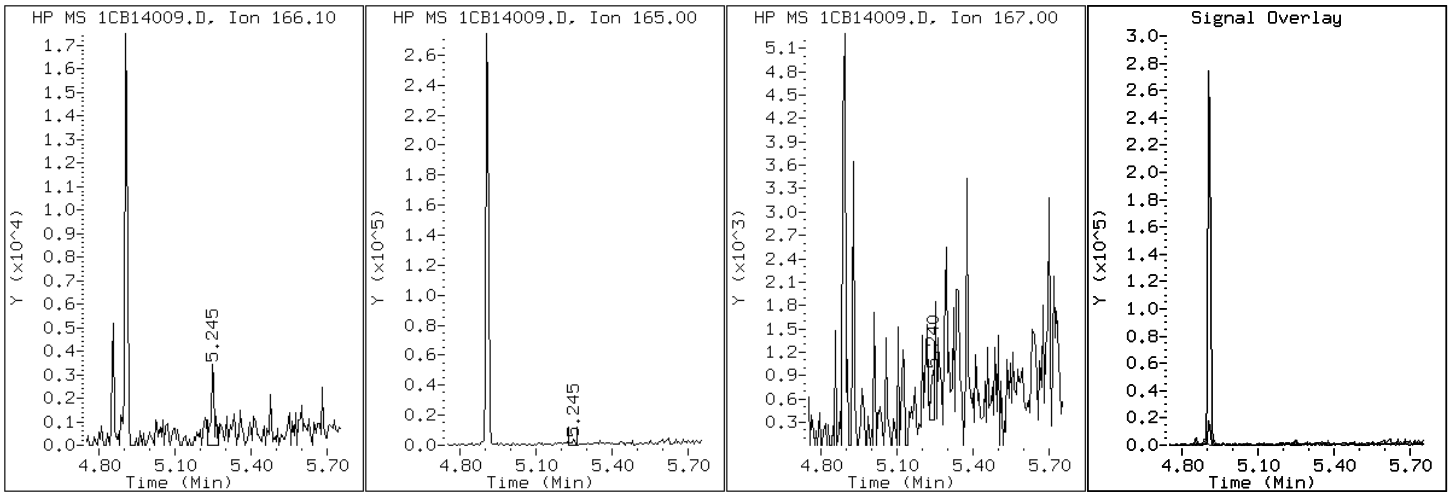
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

9 Fluorene



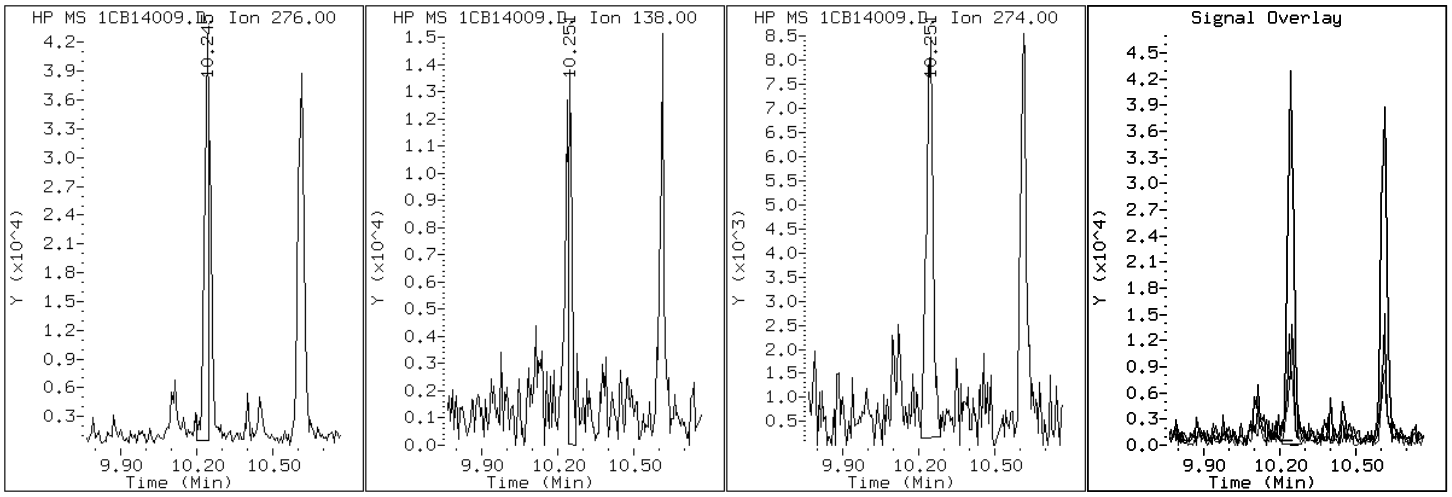
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

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



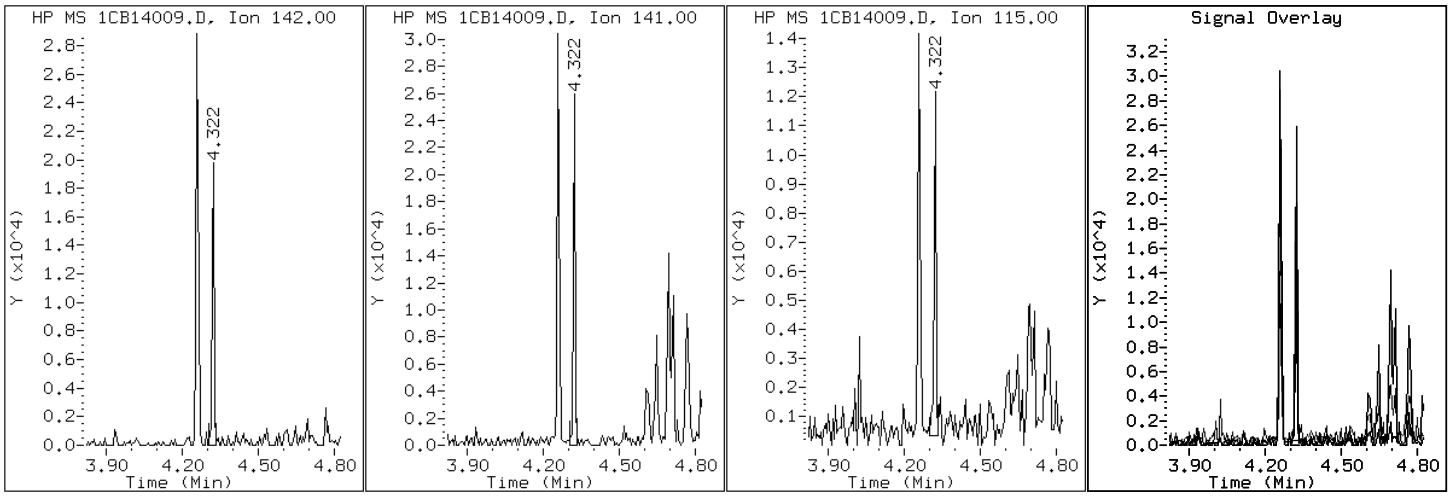
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

4 1-Methylnaphthalene



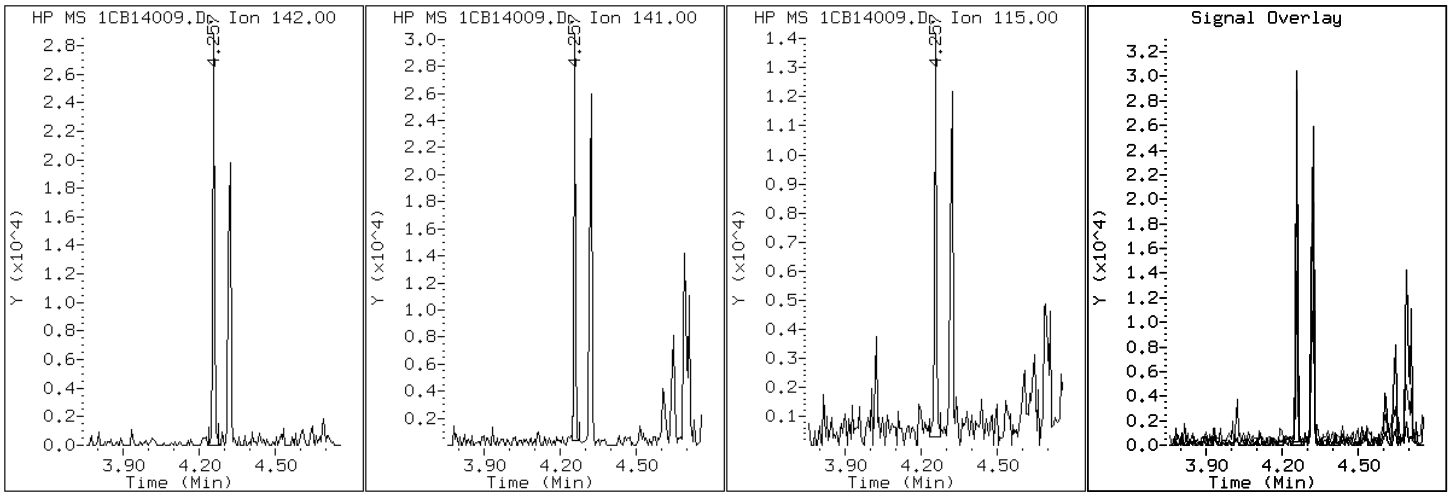
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

3 2-Methylnaphthalene



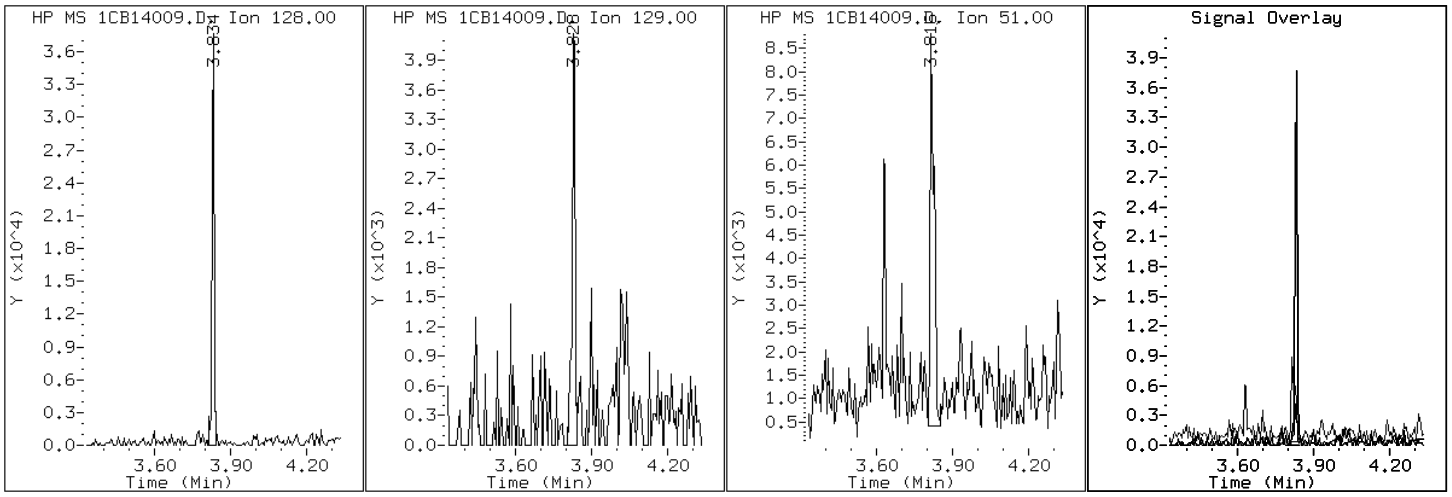
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

2 Naphthalene



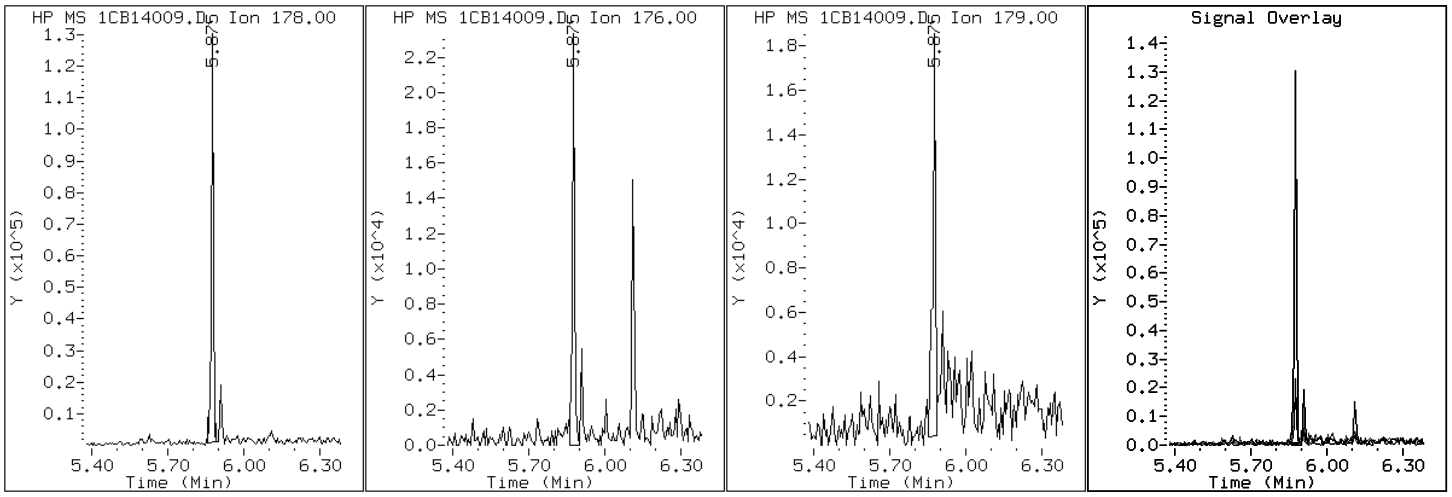
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

11 Phenanthrene



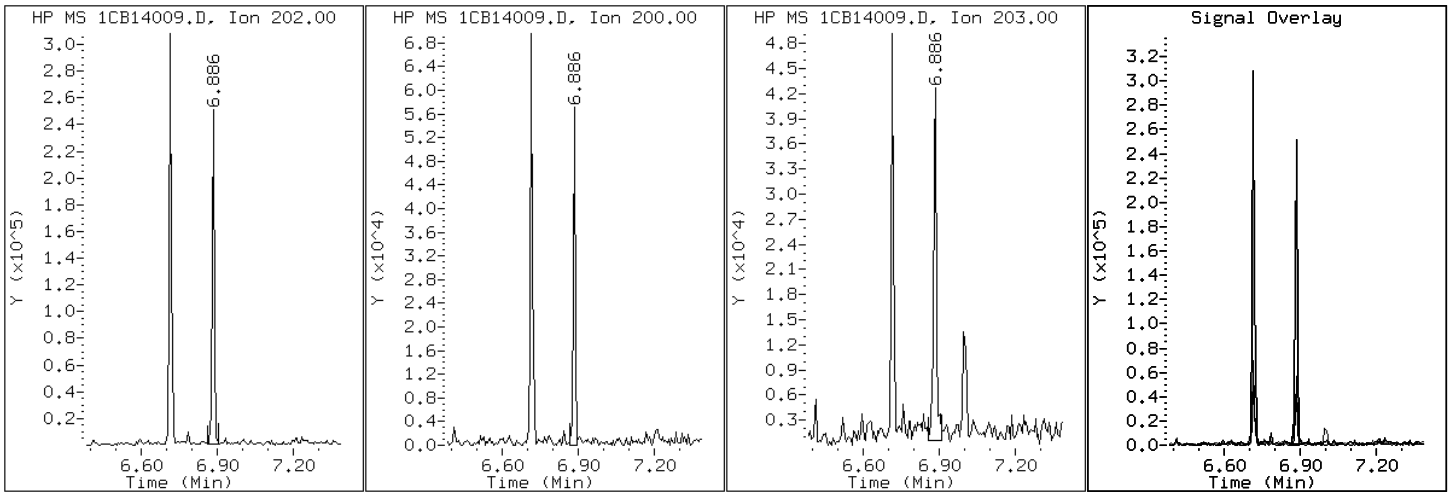
Data File: 1CB14009.D

Date: 14-FEB-2013 16:49

Client ID: CV0748D-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-15-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB14009.D
Inj. Date and Time: 14-FEB-2013 16:49
Instrument ID: BSMC5973.i
Client ID: CV0748D-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

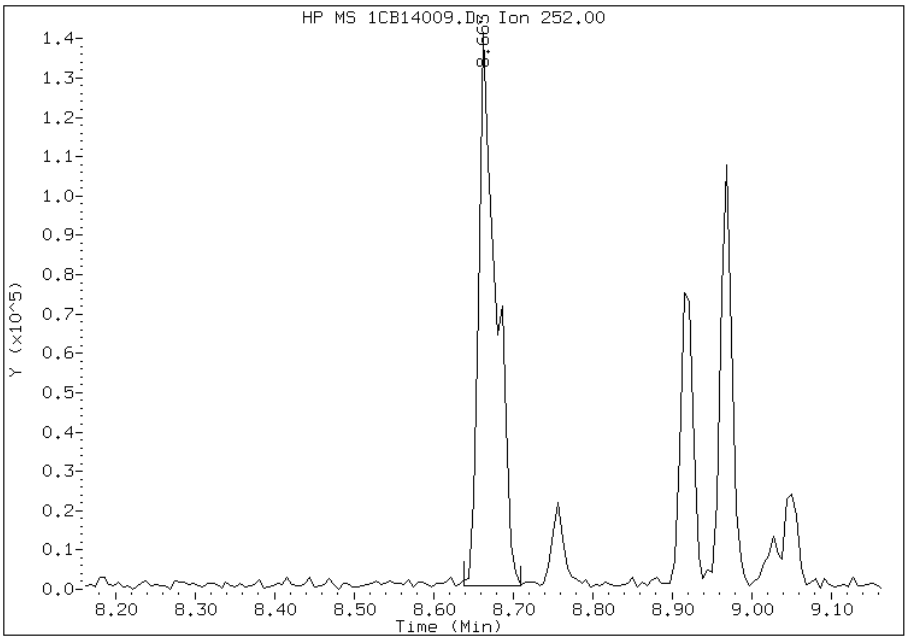
Processing Integration Results

RT: 8.66

Response: 219444

Amount: 2

Conc: 232



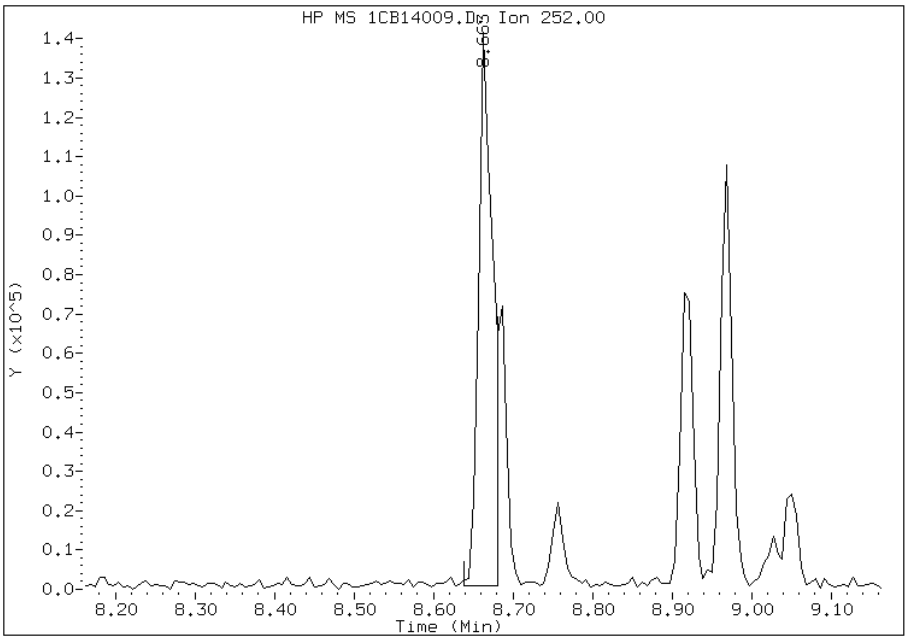
Manual Integration Results

RT: 8.66

Response: 174383

Amount: 2

Conc: 184



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 17:30
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB14009.D
Inj. Date and Time: 14-FEB-2013 16:49
Instrument ID: BSMC5973.i
Client ID: CV0748D-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

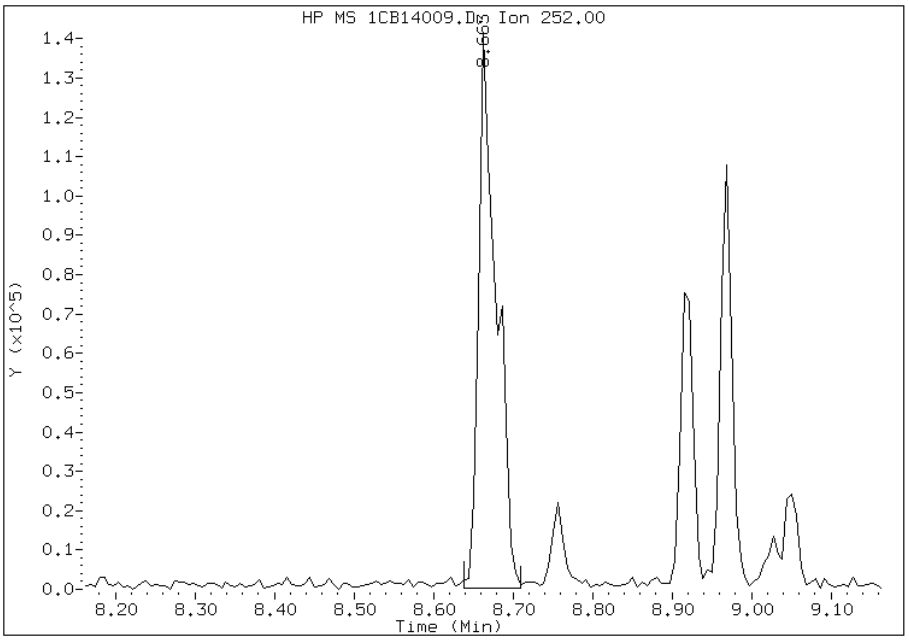
Processing Integration Results

RT: 8.66

Response: 221552

Amount: 2

Conc: 213



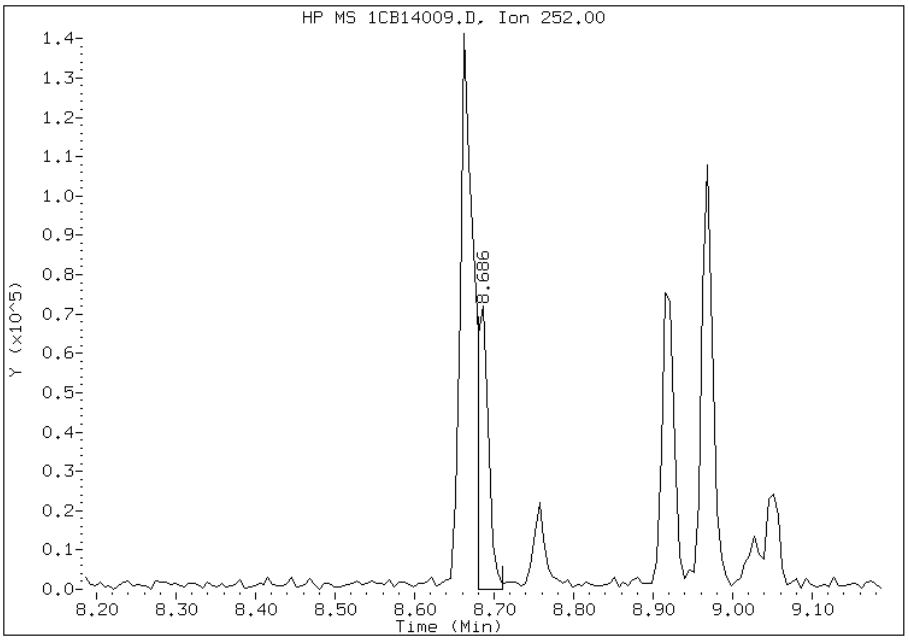
Manual Integration Results

RT: 8.69

Response: 69138

Amount: 1

Conc: 66



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 17:30
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB14009.D
Inj. Date and Time: 14-FEB-2013 16:49
Instrument ID: BSMC5973.i
Client ID: CV0748D-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

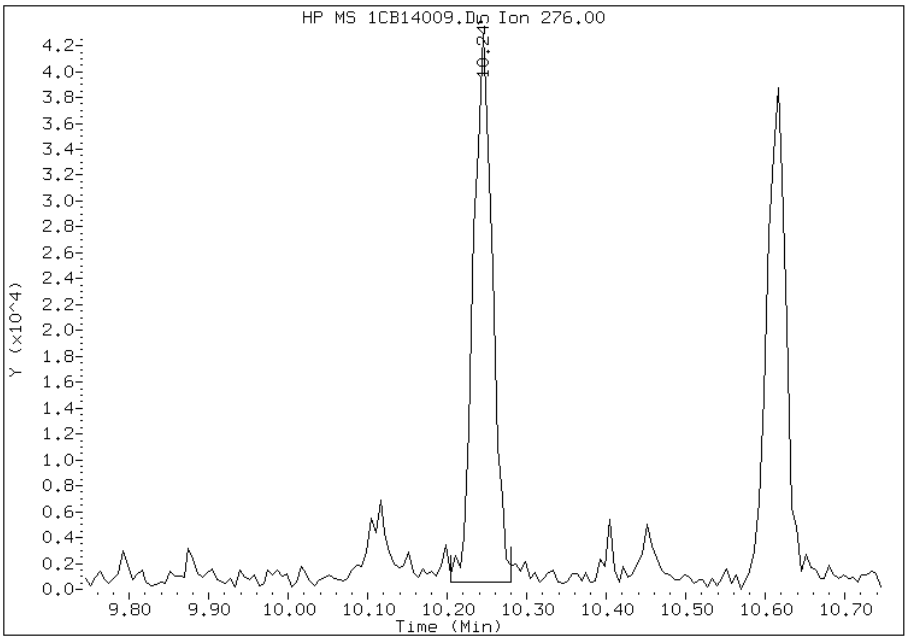
Processing Integration Results

RT: 10.25

Response: 70860

Amount: 1

Conc: 82



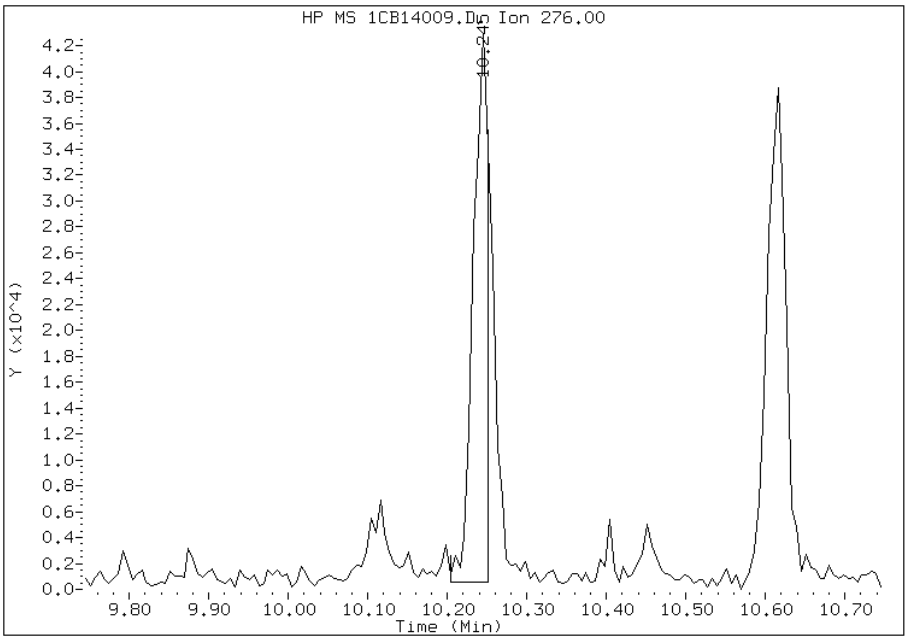
Manual Integration Results

RT: 10.25

Response: 55161

Amount: 1

Conc: 64



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 17:31
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0748D-CSD | Lab Sample ID: 680-87218-16

Matrix: Solid | Lab File ID: 1CB14010.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:58

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.03(g) | Date Analyzed: 02/14/2013 17:07

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

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

% Moisture: 32.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134493 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	150	U	150	30
208-96-8	Acenaphthylene	40	J	60	7.4
120-12-7	Anthracene	50		13	6.3
56-55-3	Benzo[a]anthracene	320		12	5.8
50-32-8	Benzo[a]pyrene	340		15	7.7
205-99-2	Benzo[b]fluoranthene	550		18	9.1
191-24-2	Benzo[g,h,i]perylene	230		30	6.5
207-08-9	Benzo[k]fluoranthene	190		12	5.4
218-01-9	Chrysene	360		13	6.7
53-70-3	Dibenz(a,h)anthracene	66		30	6.1
206-44-0	Fluoranthene	700		30	6.0
86-73-7	Fluorene	17	J	30	6.1
193-39-5	Indeno[1,2,3-cd]pyrene	200		30	11
90-12-0	1-Methylnaphthalene	60		60	6.5
91-57-6	2-Methylnaphthalene	78		60	11
91-20-3	Naphthalene	88		60	6.5
85-01-8	Phenanthrene	230	B	12	5.8
129-00-0	Pyrene	570		30	5.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	66		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14010.D
Lab Smp Id: 680-87218-A-16-A Client Smp ID: CV0748D-CSD
Inj Date : 14-FEB-2013 17:07
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-A-16-A
Misc Info : 680-87218-A-16-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 15:12 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.030	Weight Extracted
M	32.939	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.821	(1.000)	2141024	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.909	(1.000)	1669511	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.862	(1.000)	3253285	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	314098	6.58928	653.7441
* 18 Chrysene-d12	240	7.810	7.815	(1.000)	3785778	40.0000	
* 23 Perylene-d12	264	9.027	9.039	(1.000)	3590925	40.0000	
2 Naphthalene	128	3.833	3.833	(1.005)	50234	0.88542	87.8459
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	28859	0.78230	77.6143
4 1-Methylnaphthalene	142	4.322	4.321	(1.133)	20281	0.60448	59.9727
5 Acenaphthylene	152	4.816	4.821	(0.982)	26834	0.40400	40.0825
9 Fluorene	166	5.245	5.251	(1.070)	9067	0.16956	16.8224
11 Phenanthrene	178	5.874	5.880	(1.002)	227873	2.34658	232.8125
12 Anthracene	178	5.910	5.909	(1.008)	44036	0.50332	49.9357
13 Carbazole	167	6.016	6.015	(1.026)	36384	0.47876	47.4989

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	665821	7.01689	696.1689
16 Pyrene	202	6.886	6.886	(0.882)	574726	5.70240	565.7543
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	339220	3.24929	322.3733
19 Chrysene	228	7.827	7.833	(1.002)	396605	3.67780	364.8865
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	486198	5.52261	547.9162(M)
21 Benzo(k)fluoranthene	252	8.680	8.697	(0.962)	188280	1.94126	192.5990(M)
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	284231	3.39288	336.6185
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.268	(1.135)	163693	2.03441	201.8408(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.286	(1.137)	50239	0.66211	65.6901
26 Benzo(g,h,i)perylene	276	10.615	10.639	(1.176)	193333	2.36541	234.6802

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB14010.D

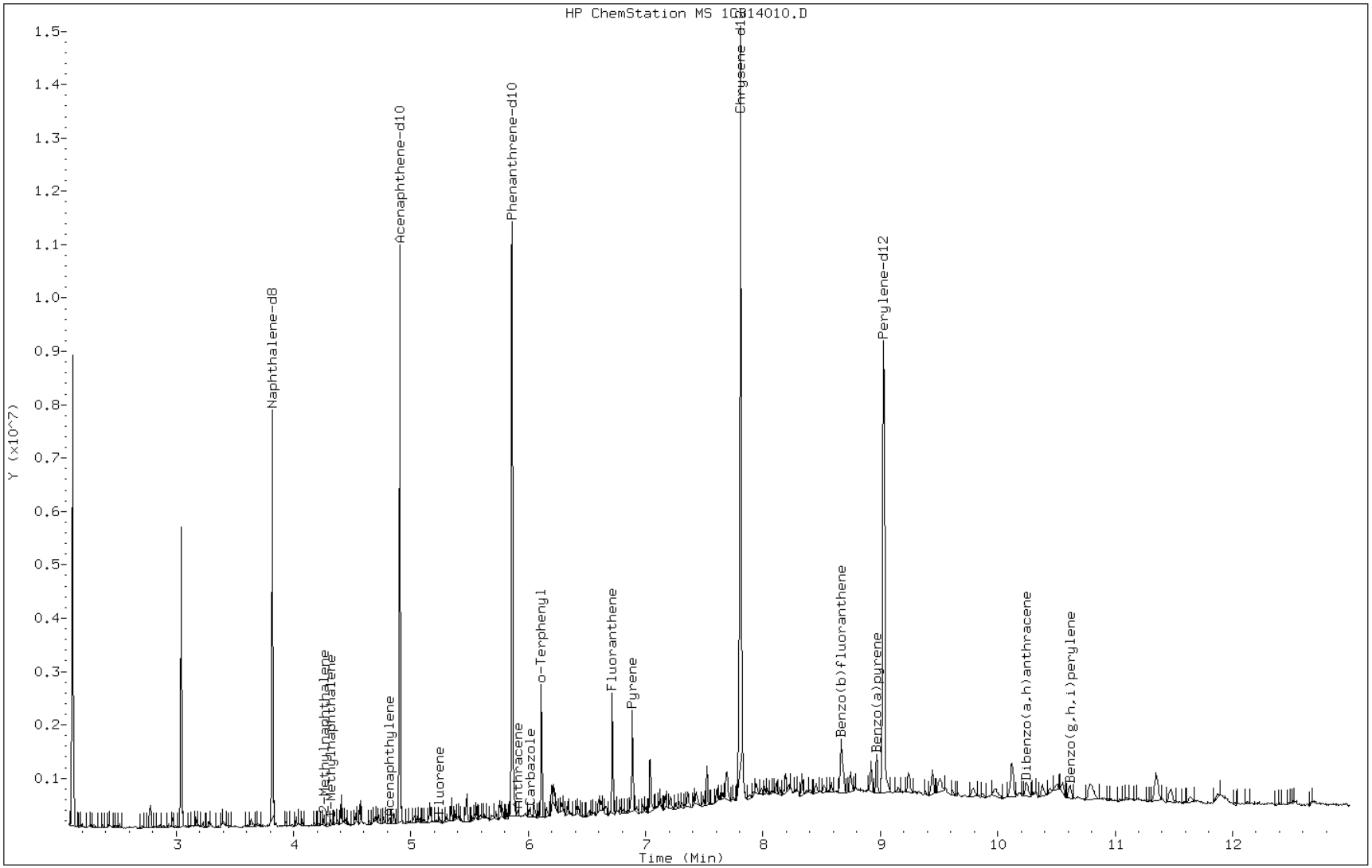
Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD

Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A

Operator: SCC



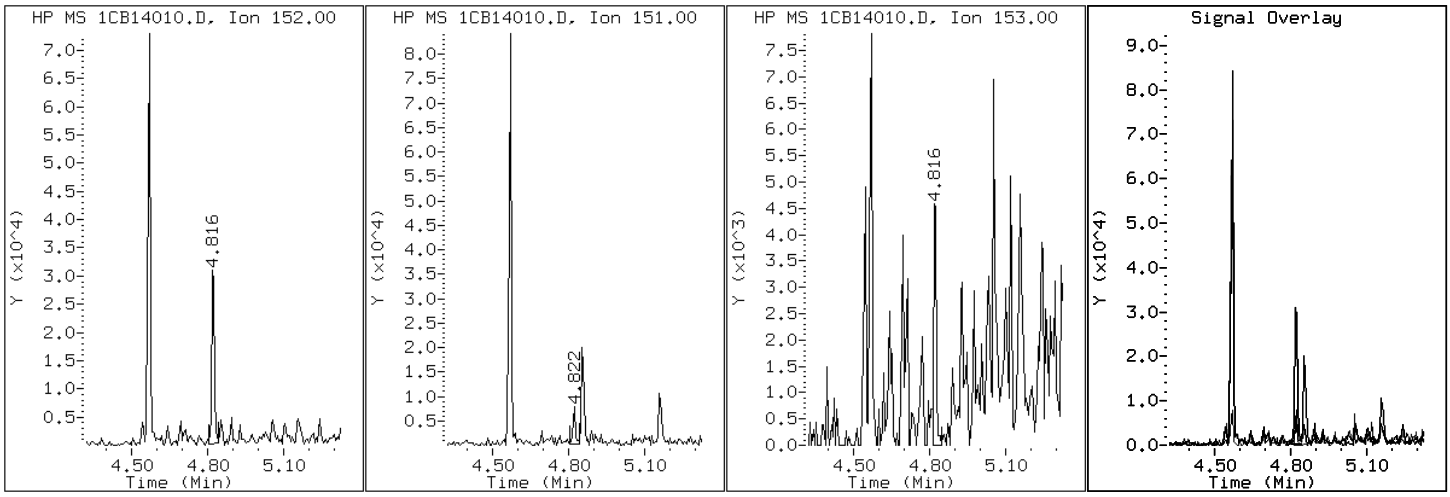
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

5 Acenaphthylene



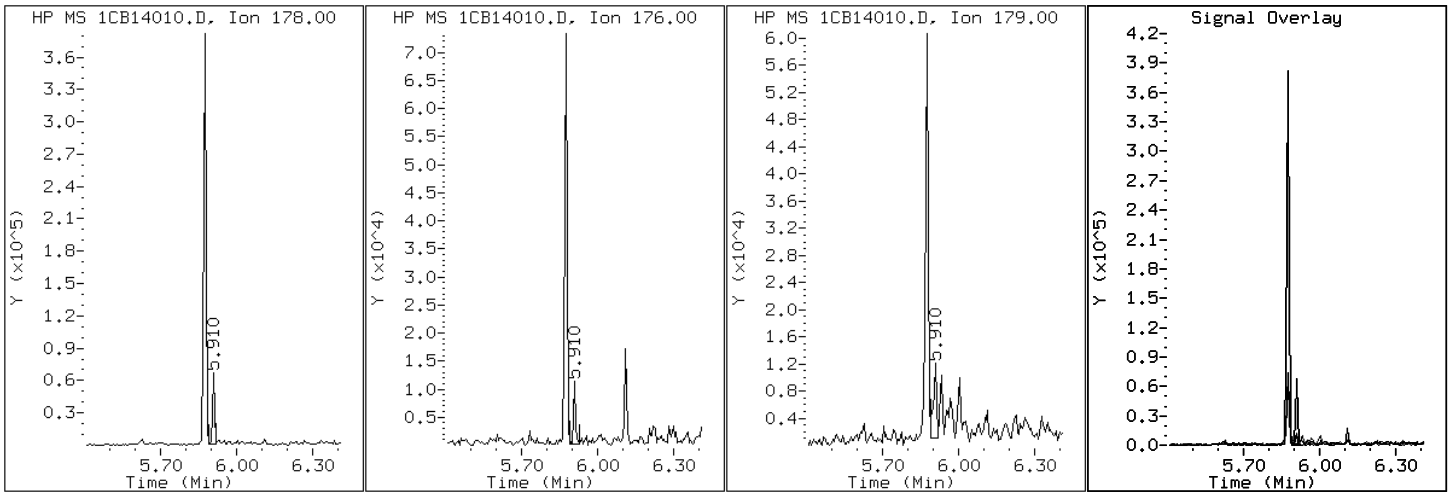
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

12 Anthracene



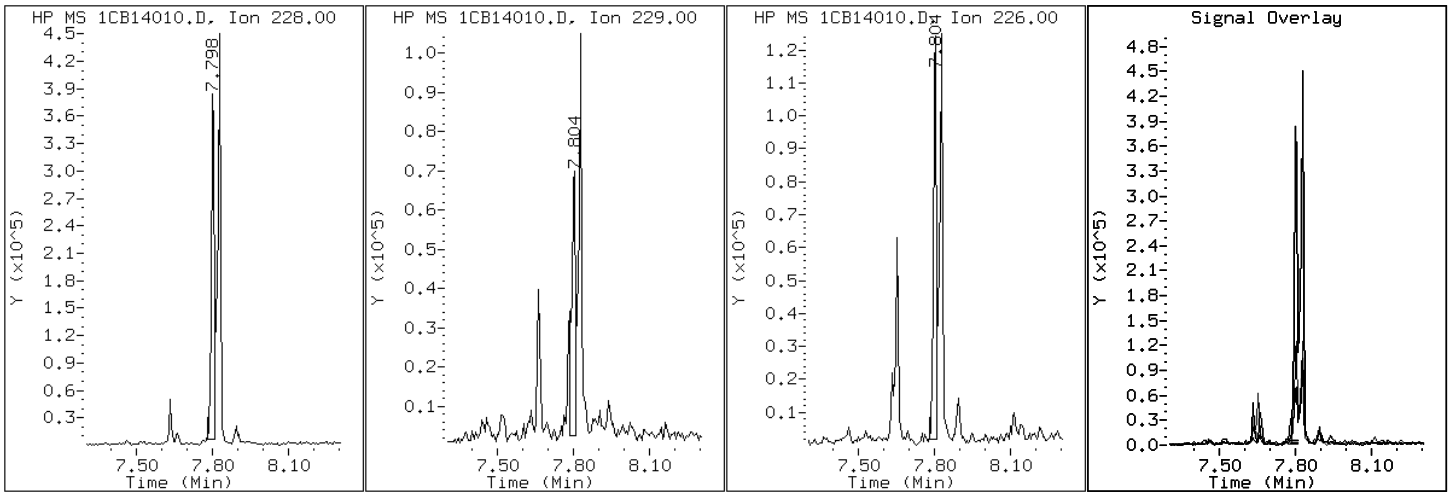
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

17 Benzo(a)anthracene



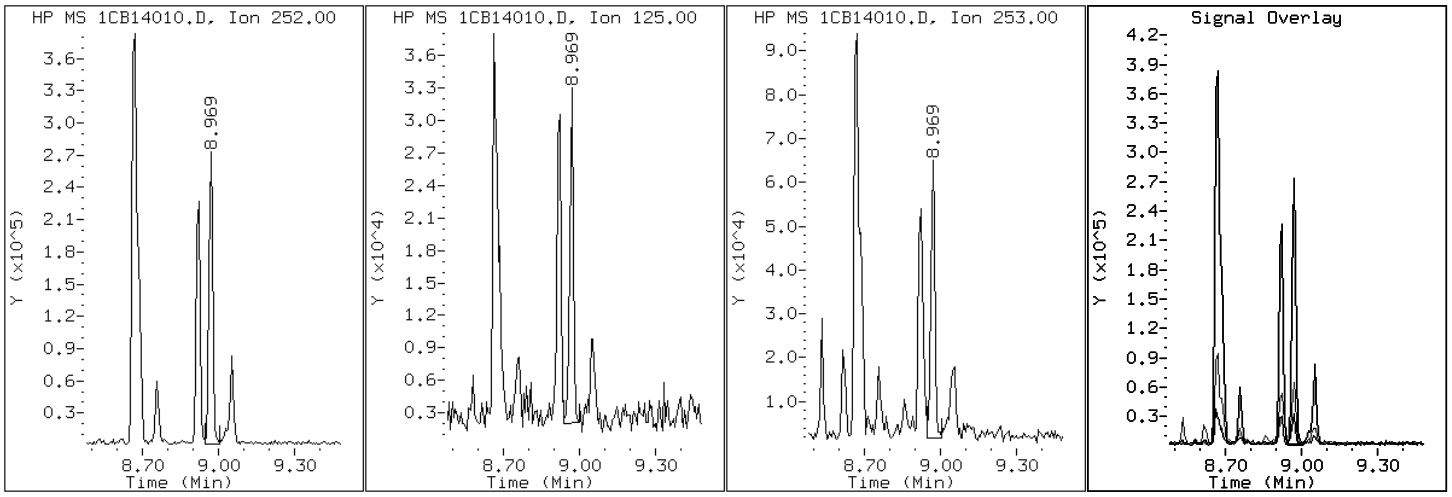
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

22 Benzo(a)pyrene



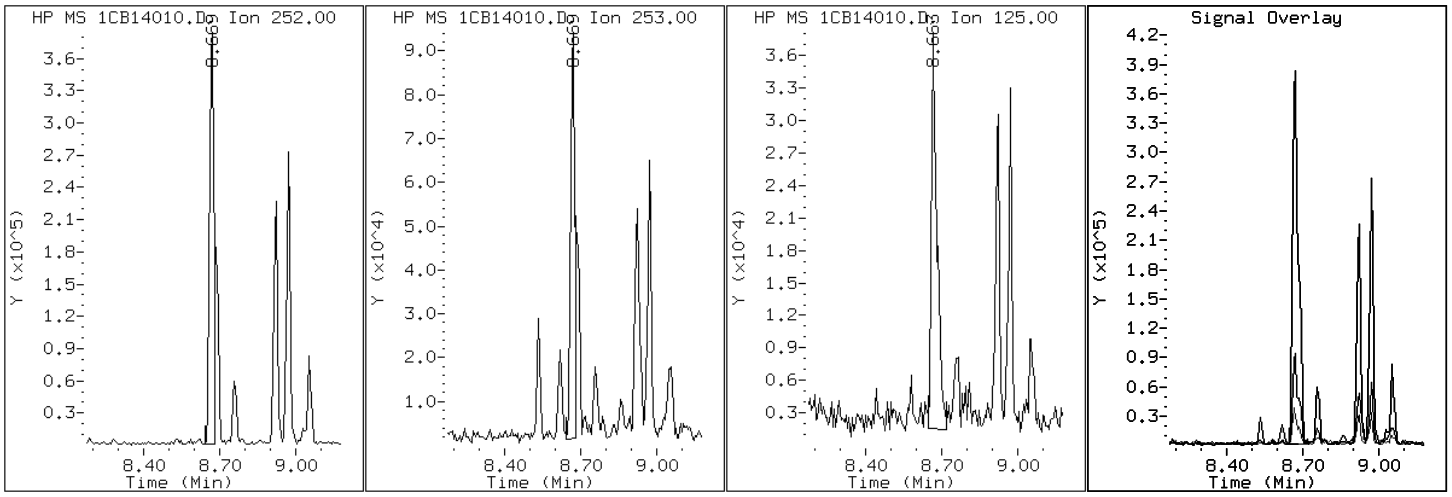
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

20 Benzo(b)fluoranthene



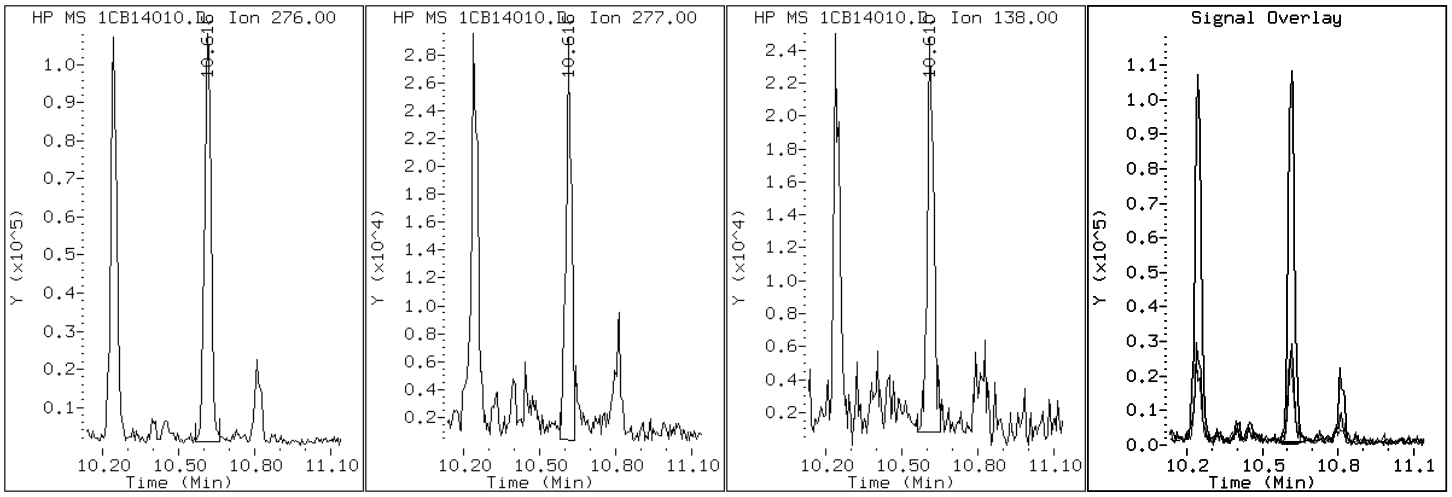
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

26 Benzo(g,h,i)perylene



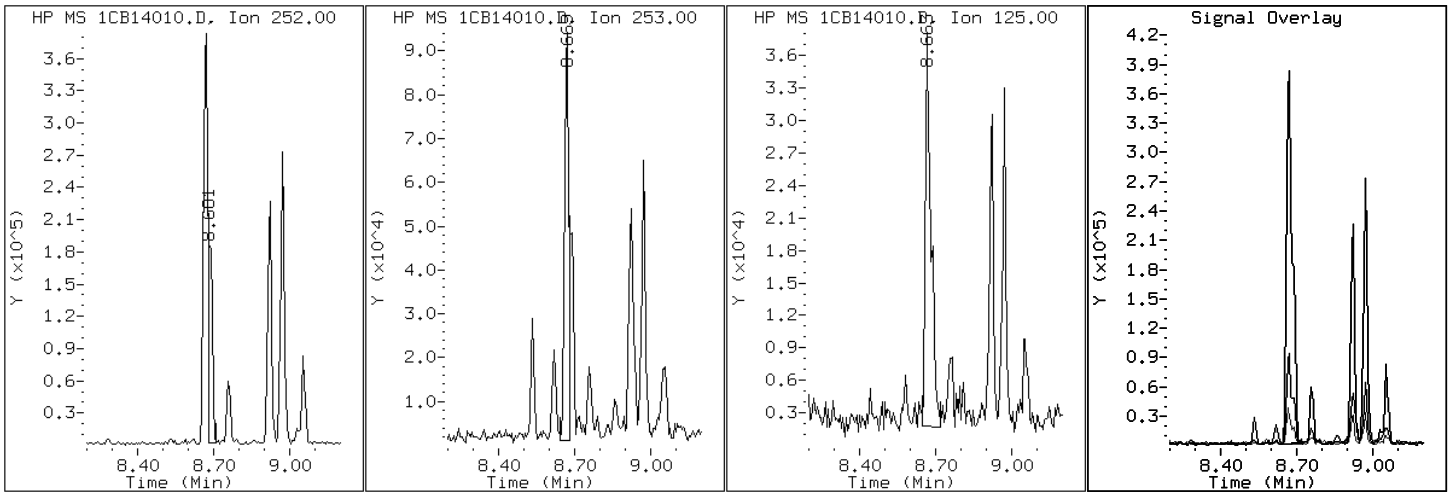
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

21 Benzo(k)fluoranthene



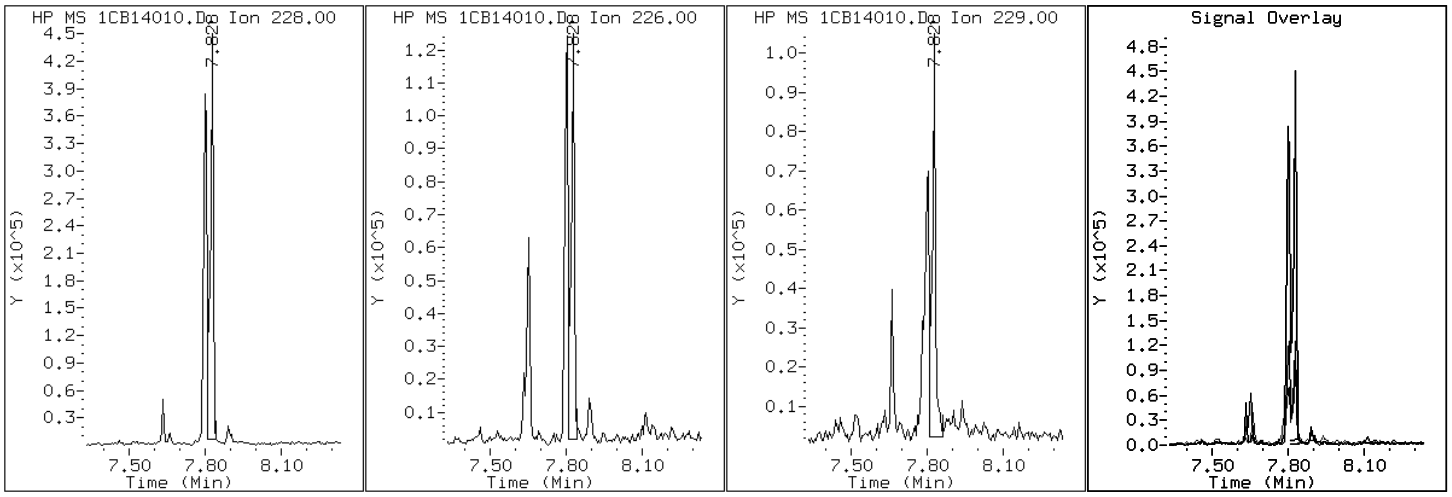
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

19 Chrysene



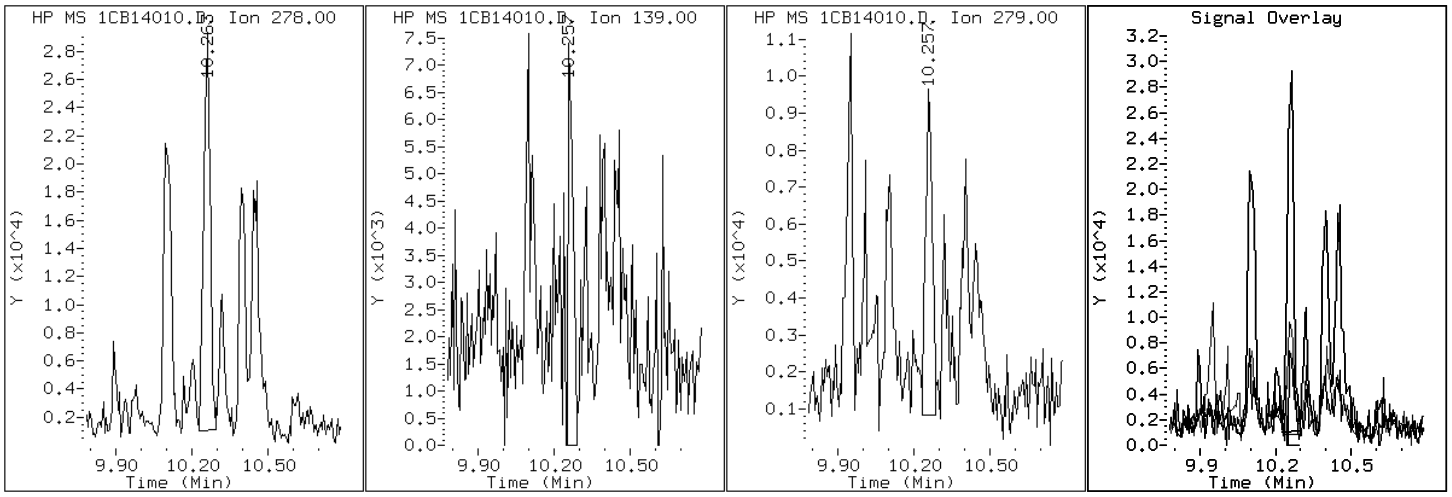
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

25 Dibenzo(a,h)anthracene



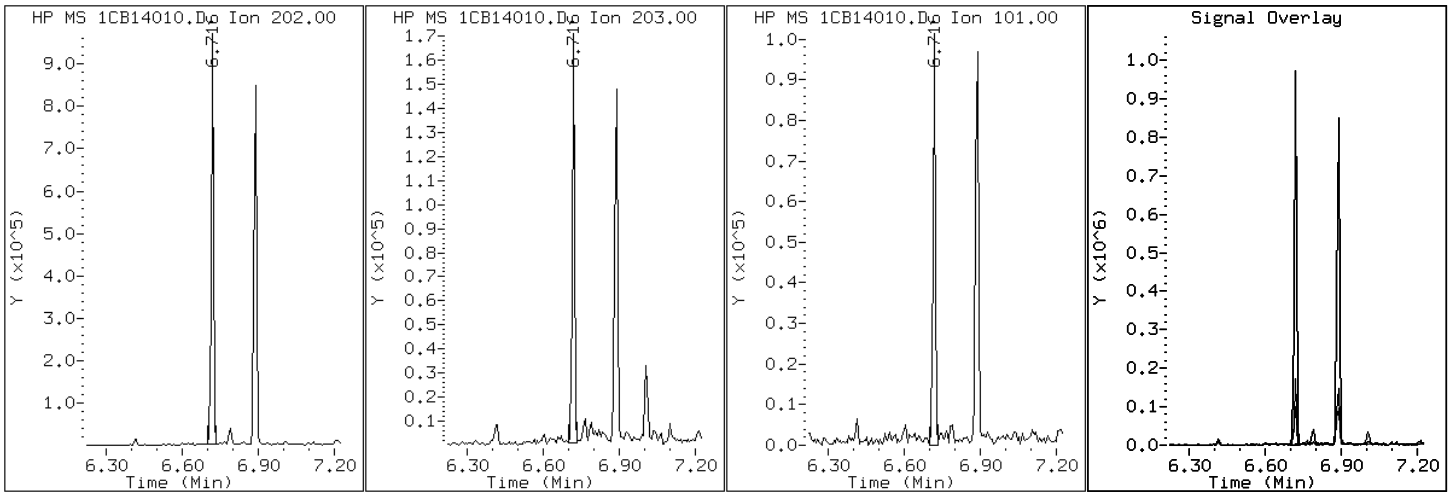
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

15 Fluoranthene



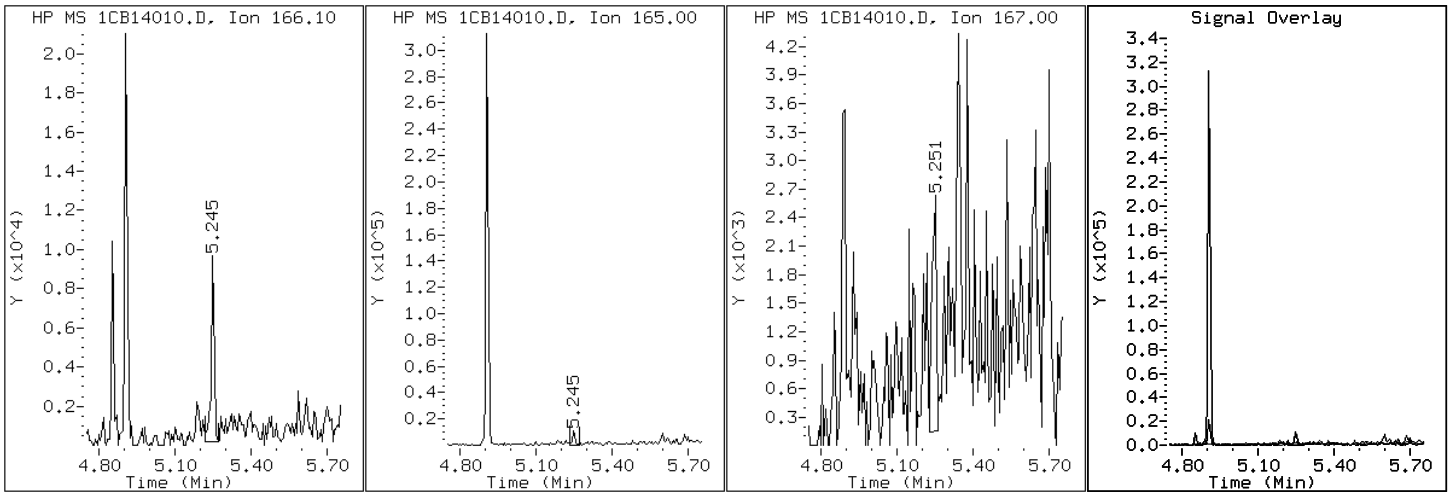
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

9 Fluorene



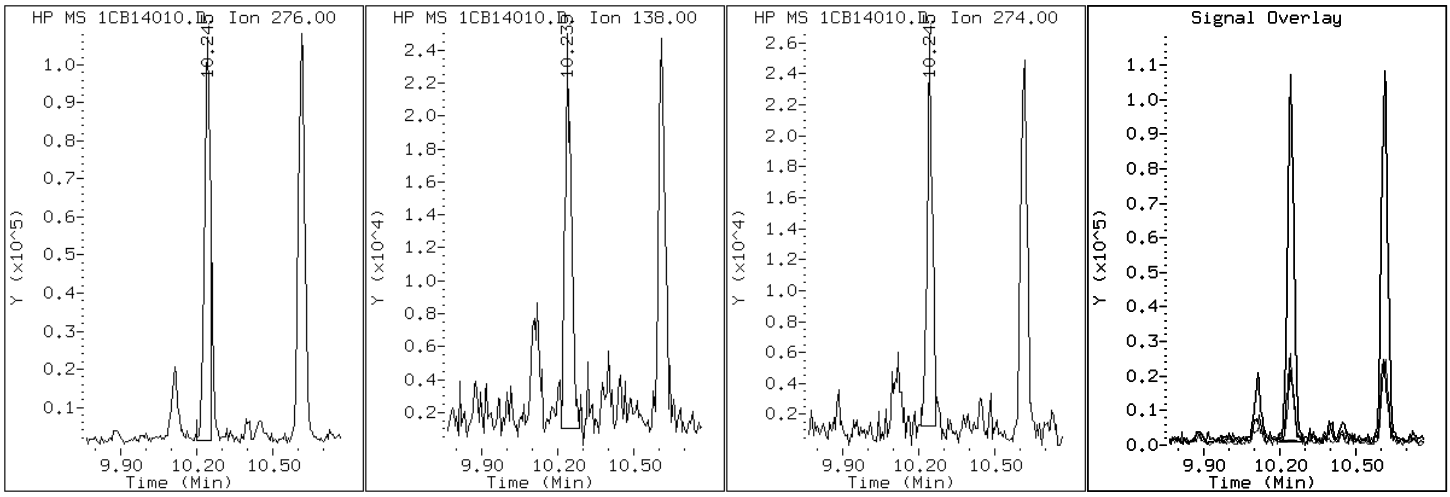
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

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



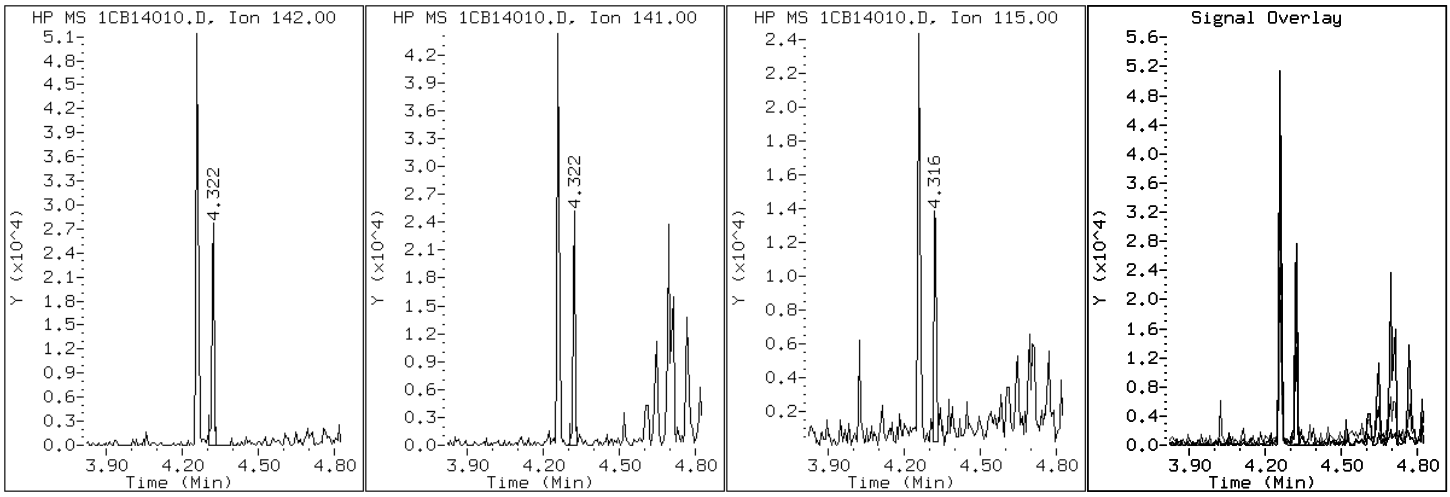
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

4 1-Methylnaphthalene



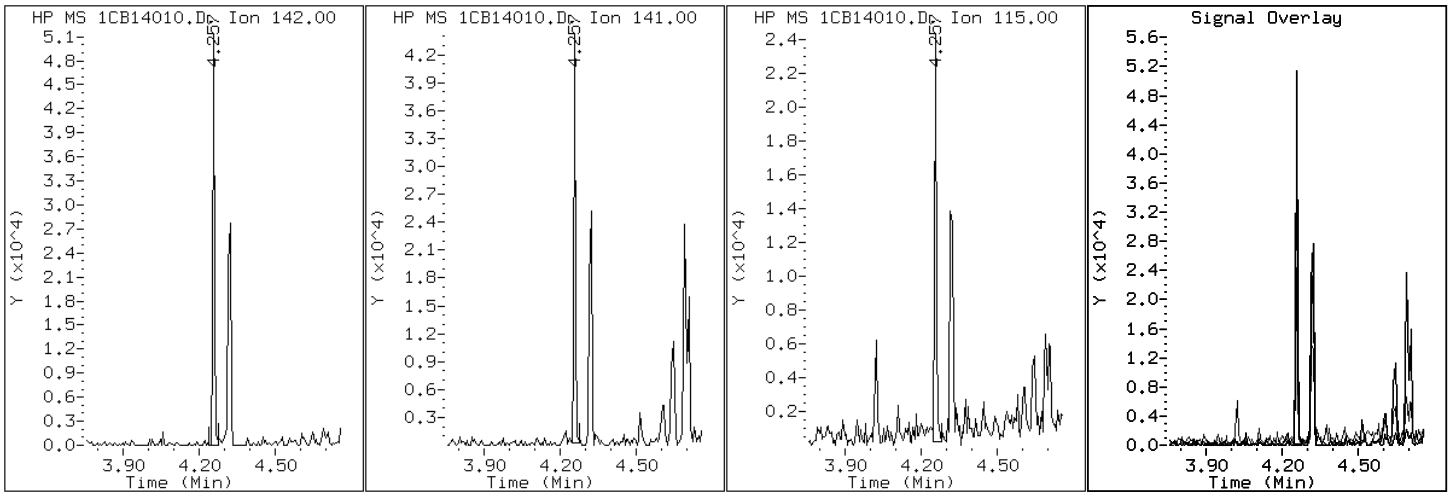
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

3 2-Methylnaphthalene



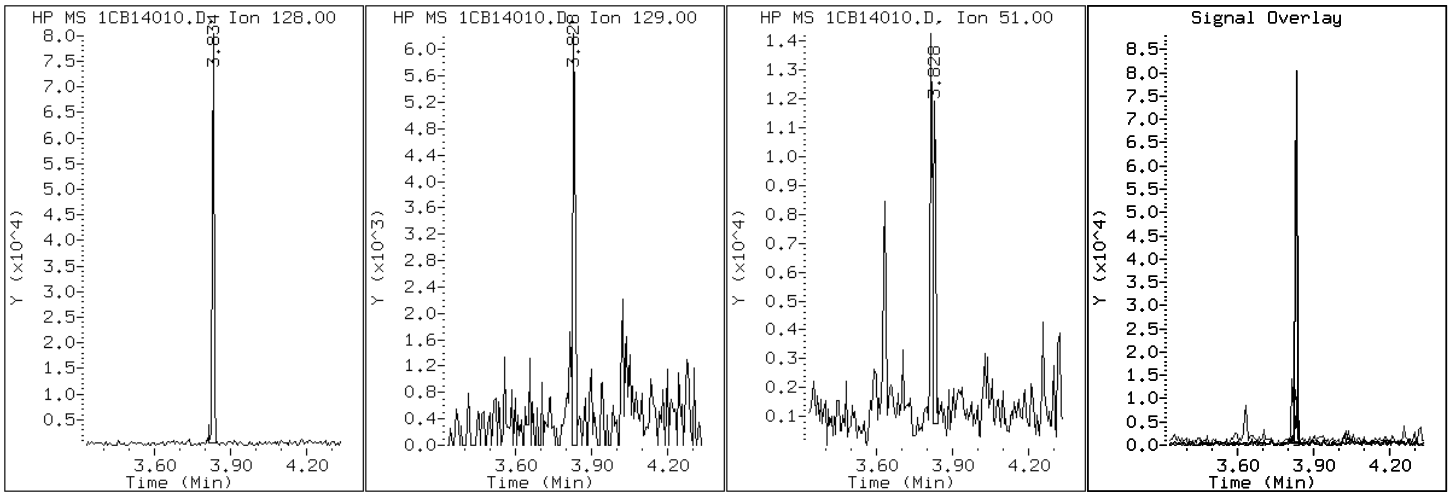
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

2 Naphthalene



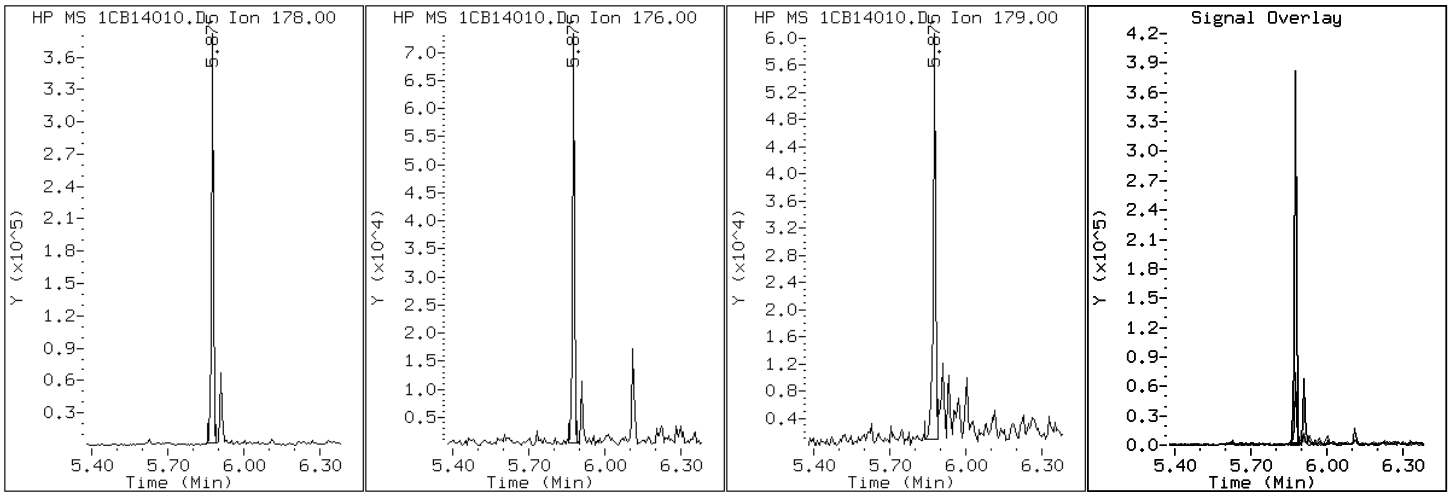
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

11 Phenanthrene



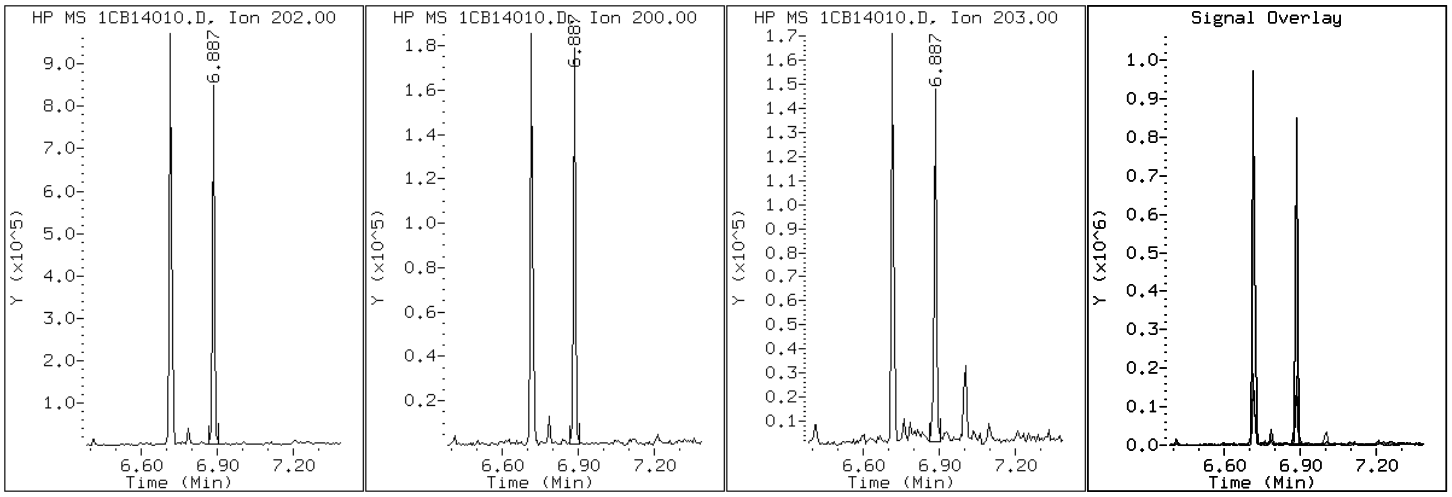
Data File: 1CB14010.D

Date: 14-FEB-2013 17:07

Client ID: CV0748D-CSD Instrument: BSMC5973.i

Sample Info: 680-87218-A-16-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB14010.D
Inj. Date and Time: 14-FEB-2013 17:07
Instrument ID: BSMC5973.i
Client ID: CV0748D-CSD
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/14/2013

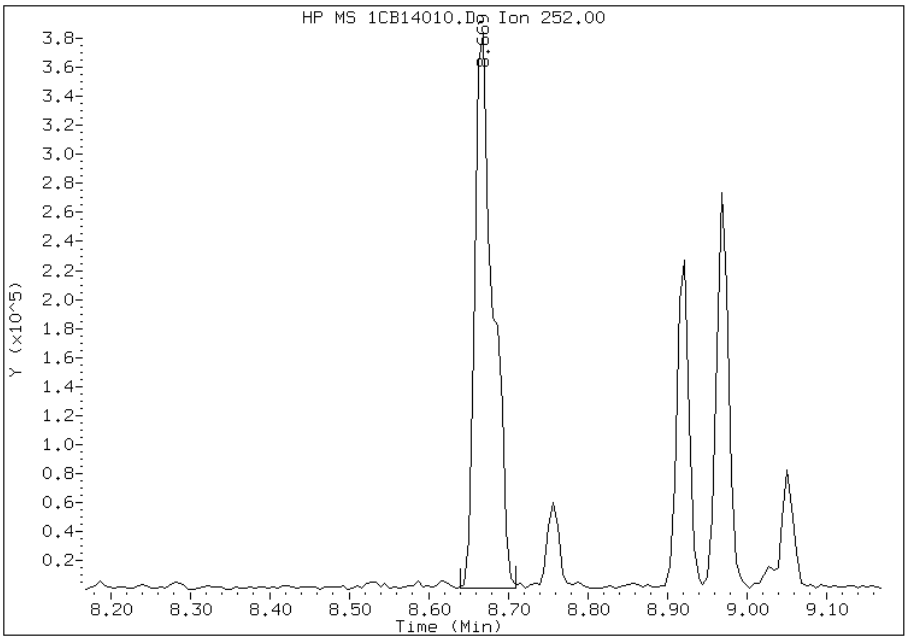
Processing Integration Results

RT: 8.67

Response: 611893

Amount: 7

Conc: 690



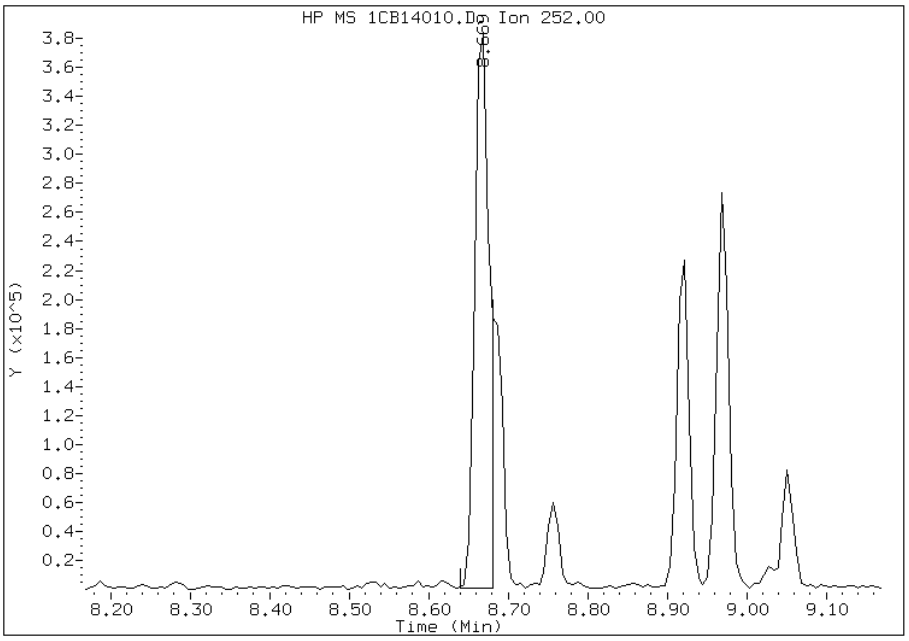
Manual Integration Results

RT: 8.67

Response: 486198

Amount: 6

Conc: 548



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 17:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB14010.D
Inj. Date and Time: 14-FEB-2013 17:07
Instrument ID: BSMC5973.i
Client ID: CV0748D-CSD
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/14/2013

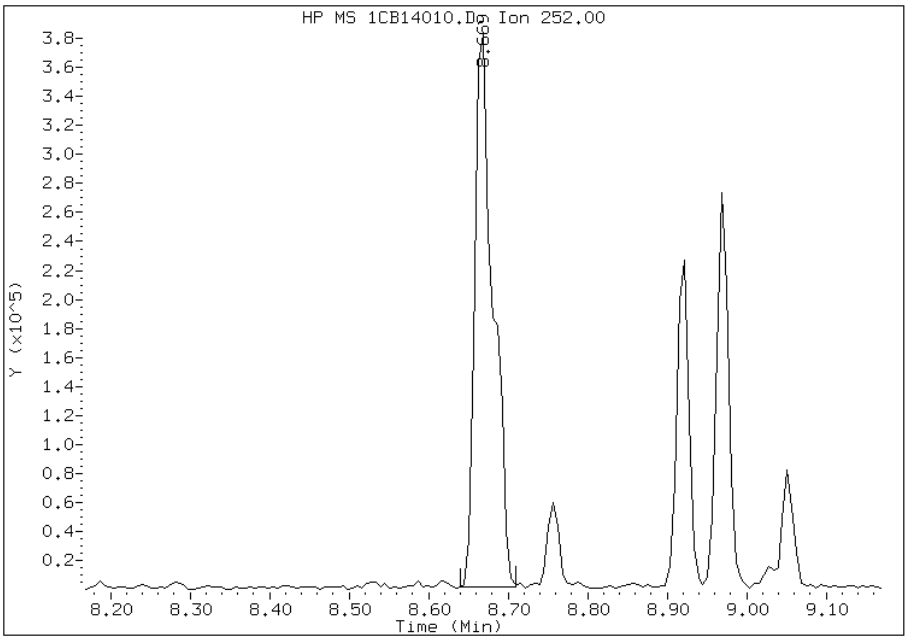
Processing Integration Results

RT: 8.67

Response: 608843

Amount: 6

Conc: 623



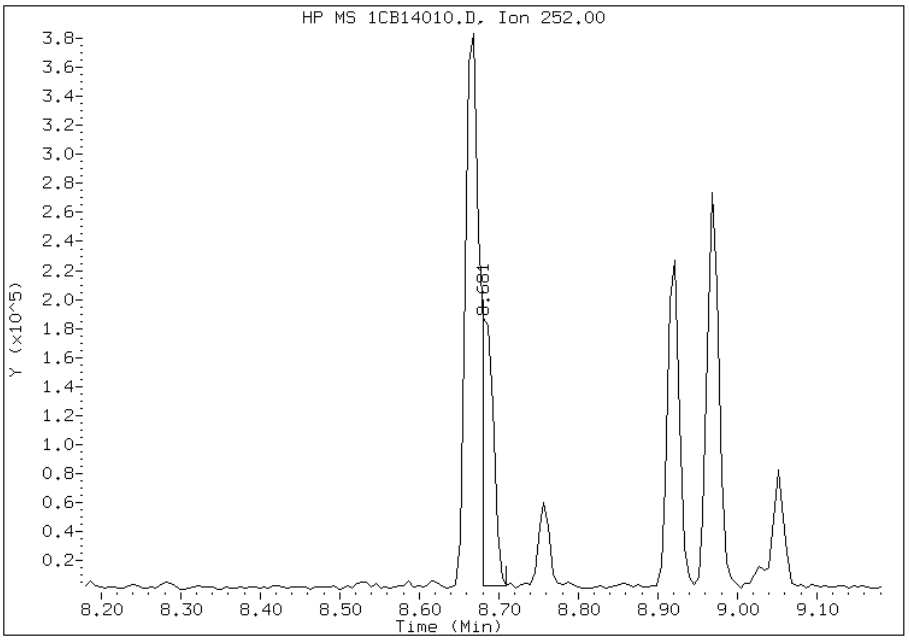
Manual Integration Results

RT: 8.68

Response: 188280

Amount: 2

Conc: 193



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 17:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB14010.D
Inj. Date and Time: 14-FEB-2013 17:07
Instrument ID: BSMC5973.i
Client ID: CV0748D-CSD
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

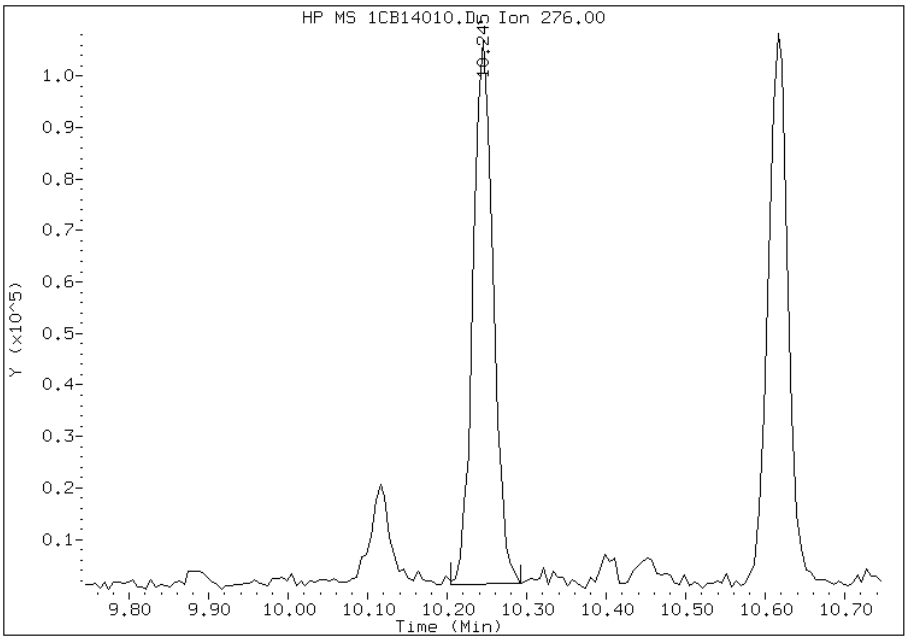
Processing Integration Results

RT: 10.25

Response: 185839

Amount: 2

Conc: 229



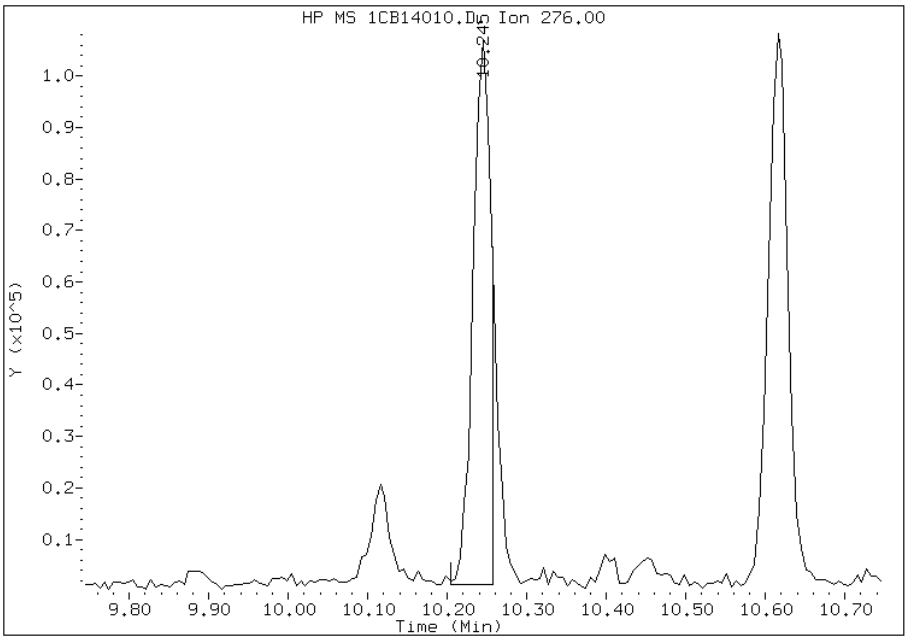
Manual Integration Results

RT: 10.25

Response: 163693

Amount: 2

Conc: 202



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 17:32
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0748E-CS | Lab Sample ID: 680-87218-17

Matrix: Solid | Lab File ID: 1CB14011.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 10:24

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.07(g) | Date Analyzed: 02/14/2013 17:26

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

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

% Moisture: 38.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134493 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	160	U	160	32
208-96-8	Acenaphthylene	55	J	65	8.1
120-12-7	Anthracene	44		14	6.8
56-55-3	Benzo[a]anthracene	350		13	6.3
50-32-8	Benzo[a]pyrene	400		17	8.4
205-99-2	Benzo[b]fluoranthene	600		20	9.9
191-24-2	Benzo[g,h,i]perylene	290		32	7.1
207-08-9	Benzo[k]fluoranthene	240		13	5.8
218-01-9	Chrysene	420		15	7.3
53-70-3	Dibenz(a,h)anthracene	68		32	6.6
206-44-0	Fluoranthene	740		32	6.5
86-73-7	Fluorene	15	J	32	6.6
193-39-5	Indeno[1,2,3-cd]pyrene	240		32	12
90-12-0	1-Methylnaphthalene	110		65	7.1
91-57-6	2-Methylnaphthalene	130		65	12
91-20-3	Naphthalene	120		65	7.1
85-01-8	Phenanthrene	260	B	13	6.3
129-00-0	Pyrene	610		32	6.0

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\BSMC5973.i\1C021413.b\1CB14011.D
Lab Smp Id: 680-87218-A-17-A Client Smp ID: CV0748E-CS
Inj Date : 14-FEB-2013 17:26
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-A-17-A
Misc Info : 680-87218-A-17-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 15:12 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 11
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	15.070	Weight Extracted
M	38.600	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.816	3.821	(1.000)	2003792	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.909	(1.000)	1585126	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.862	(1.000)	3008050	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	340820	7.73276	835.7051
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3487049	40.0000	
* 23 Perylene-d12	264	9.027	9.039	(1.000)	3388820	40.0000	
2 Naphthalene	128	3.833	3.833	(1.005)	59128	1.11357	120.3467
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	41628	1.20572	130.3057
4 1-Methylnaphthalene	142	4.321	4.321	(1.133)	32368	1.03081	111.4032
5 Acenaphthylene	152	4.821	4.821	(0.983)	32084	0.50876	54.9834
9 Fluorene	166	5.245	5.251	(1.070)	6970	0.13728	14.8365
11 Phenanthrene	178	5.874	5.880	(1.002)	216258	2.40853	260.2981
12 Anthracene	178	5.910	5.909	(1.008)	33269	0.41125	44.4456
13 Carbazole	167	6.015	6.015	(1.026)	29602	0.42127	45.5281

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	599399	6.83188	738.3436
16 Pyrene	202	6.886	6.886	(0.882)	520528	5.60710	605.9775
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	314200	3.26746	353.1256
19 Chrysene	228	7.827	7.833	(1.002)	381977	3.84560	415.6064
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	464018	5.58501	603.5899(M)
21 Benzo(k)fluoranthene	252	8.686	8.697	(0.962)	200522	2.19079	236.7653(QM)
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	294201	3.72133	402.1767
24 Indeno(1,2,3-cd)pyrene	276	10.245	10.268	(1.135)	171579	2.25960	244.2019(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.286	(1.137)	45284	0.63240	68.3455
26 Benzo(g,h,i)perylene	276	10.615	10.639	(1.176)	208746	2.70630	292.4791

QC Flag Legend

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

Data File: 1CB14011.D

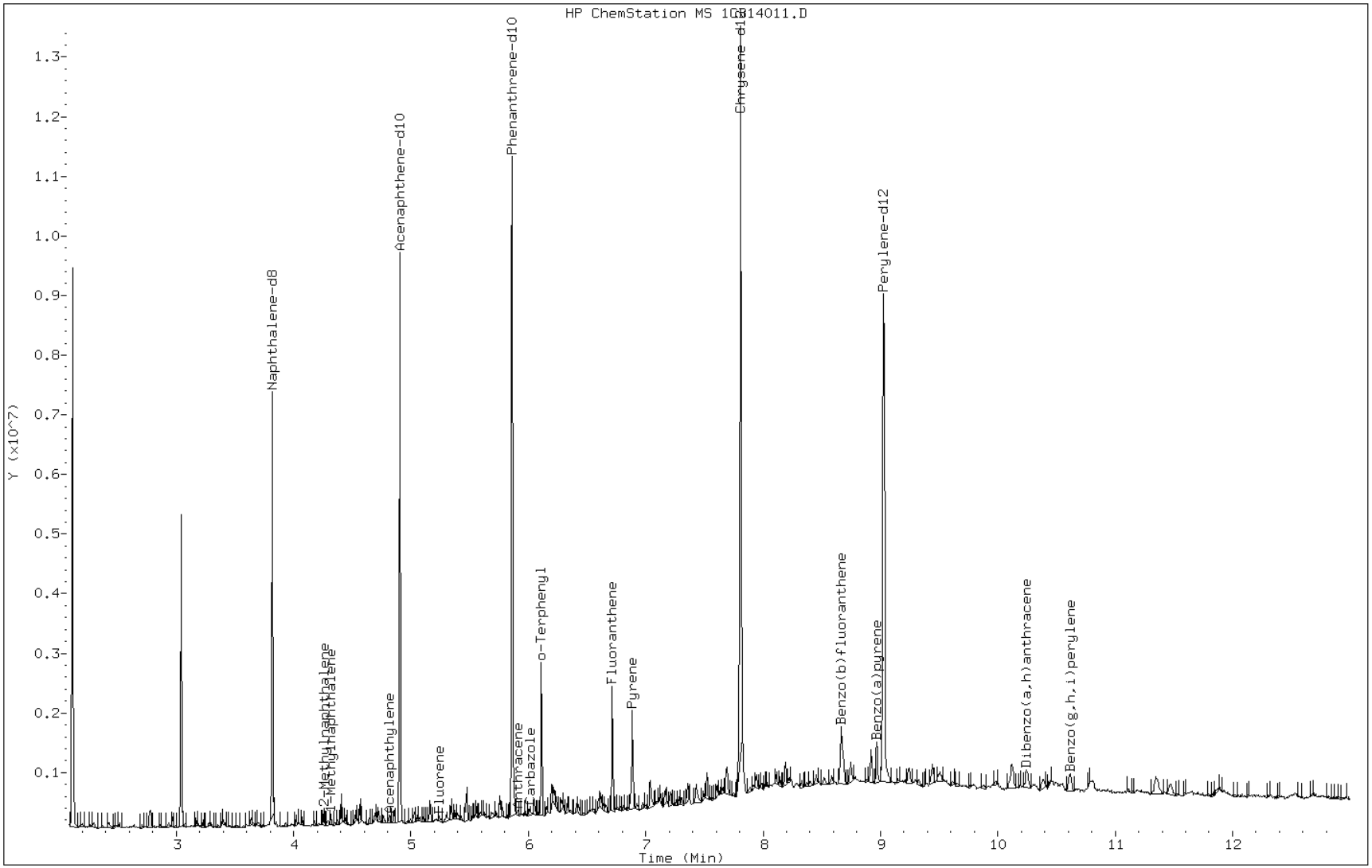
Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A

Operator: SCC



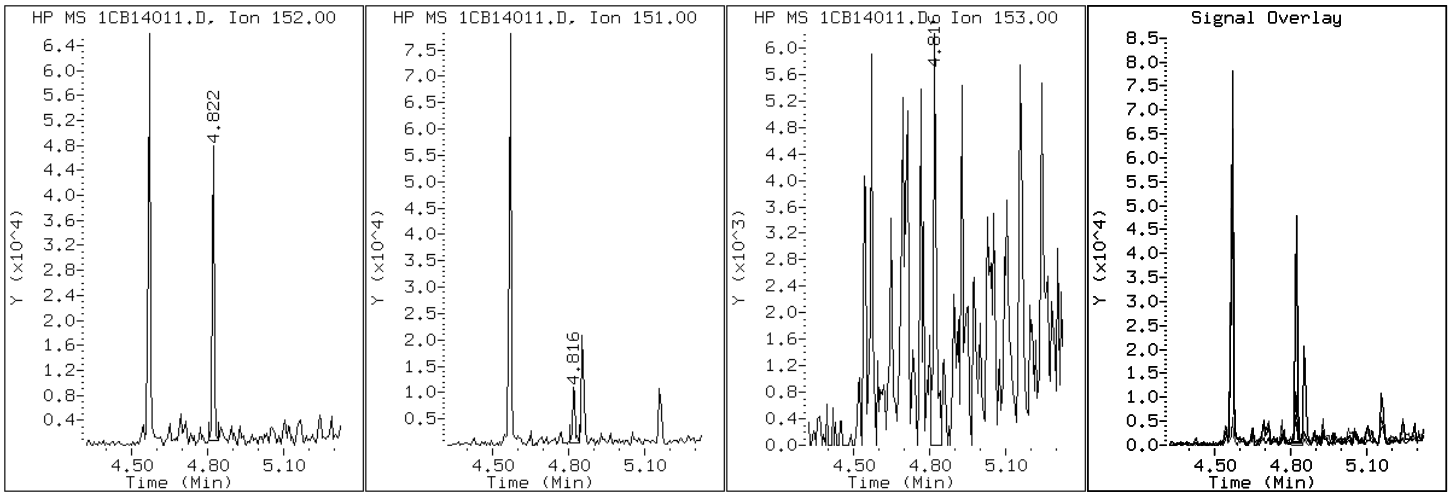
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

5 Acenaphthylene



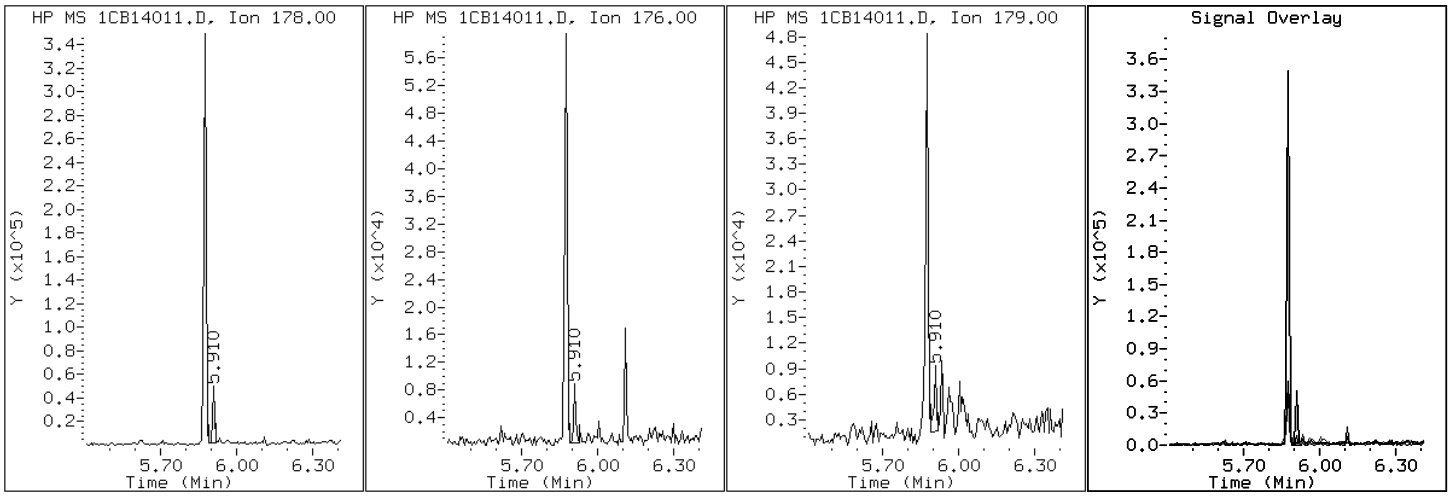
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

12 Anthracene



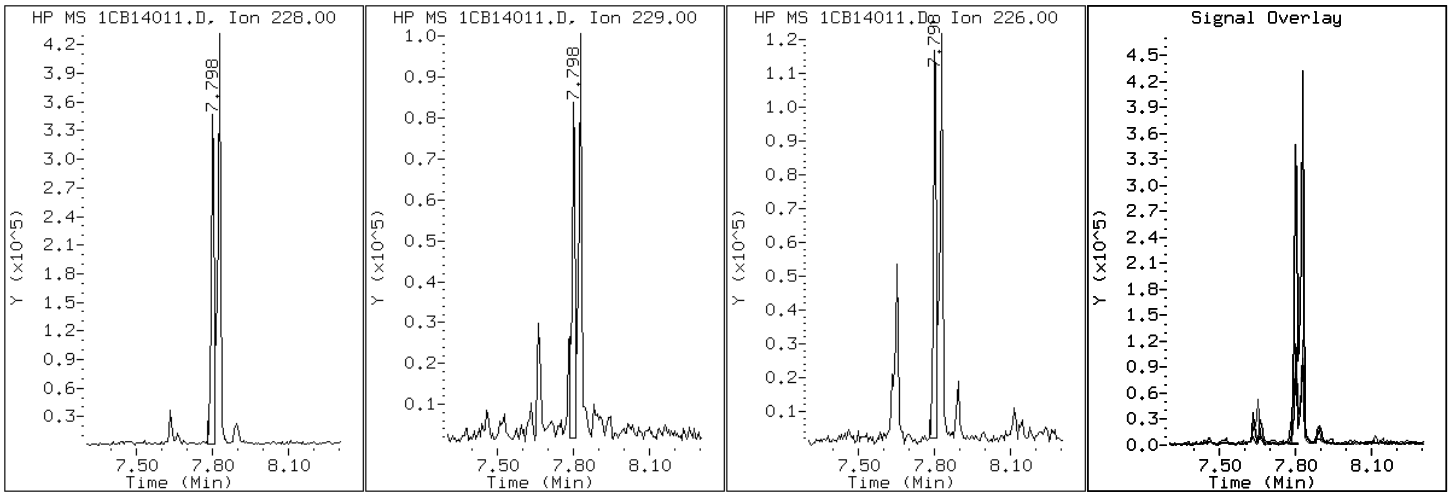
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

17 Benzo(a)anthracene



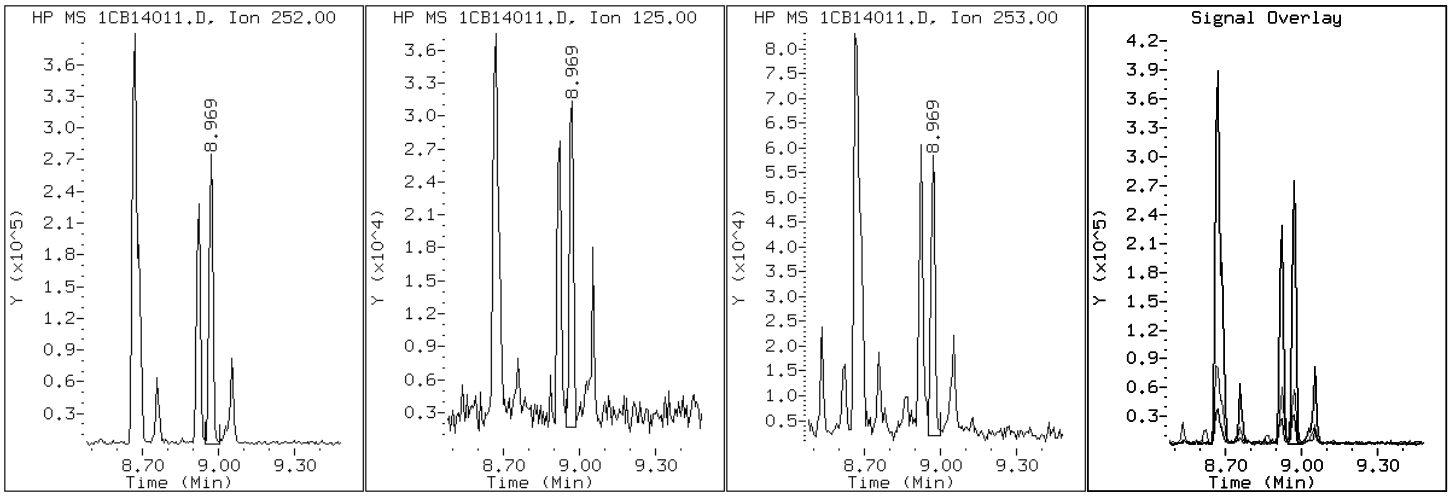
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

22 Benzo(a)pyrene



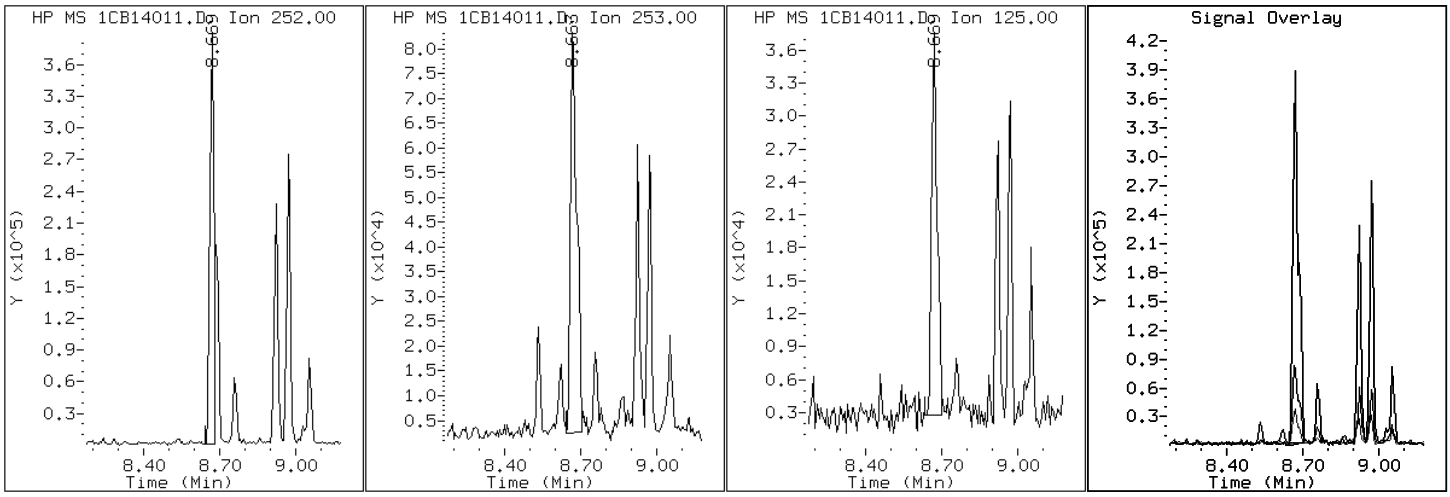
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

20 Benzo(b)fluoranthene



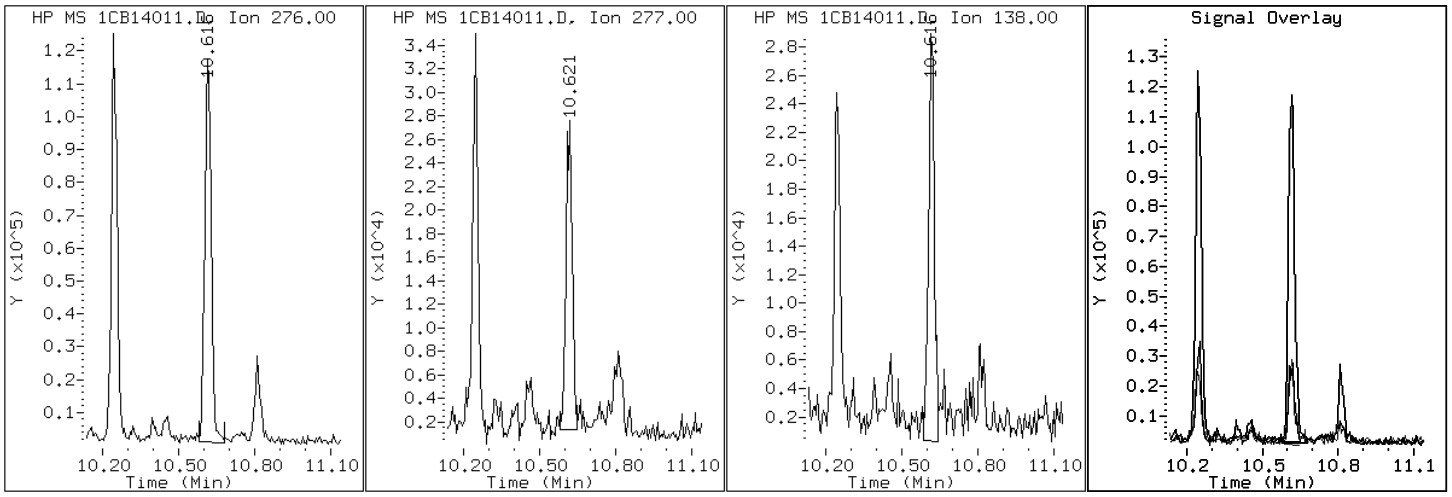
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

26 Benzo(g,h,i)perylene



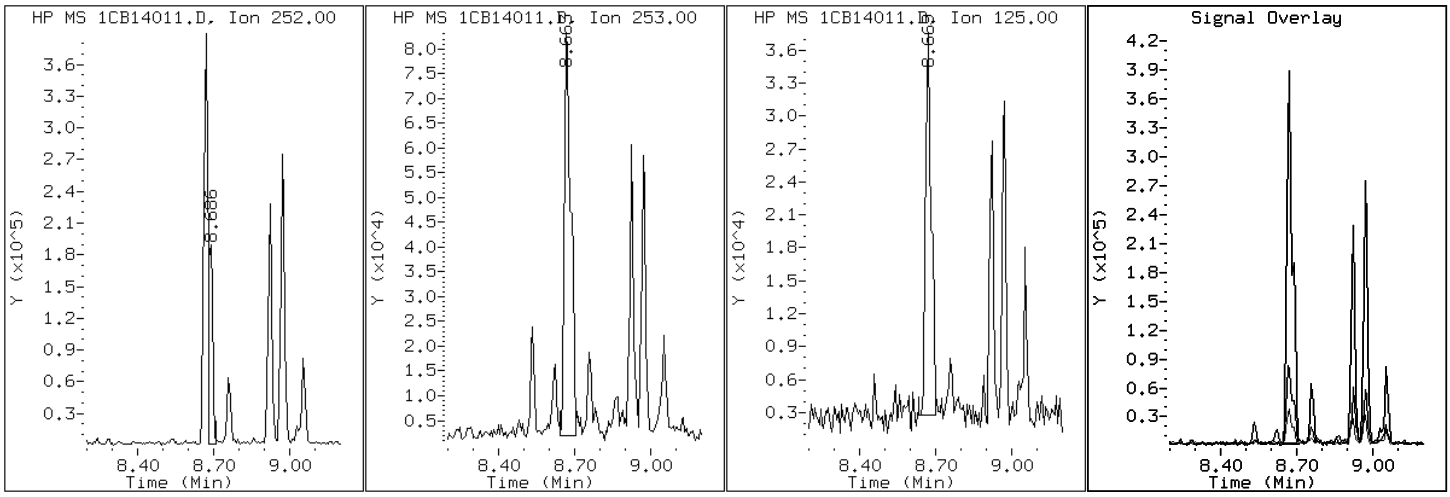
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

21 Benzo(k)fluoranthene



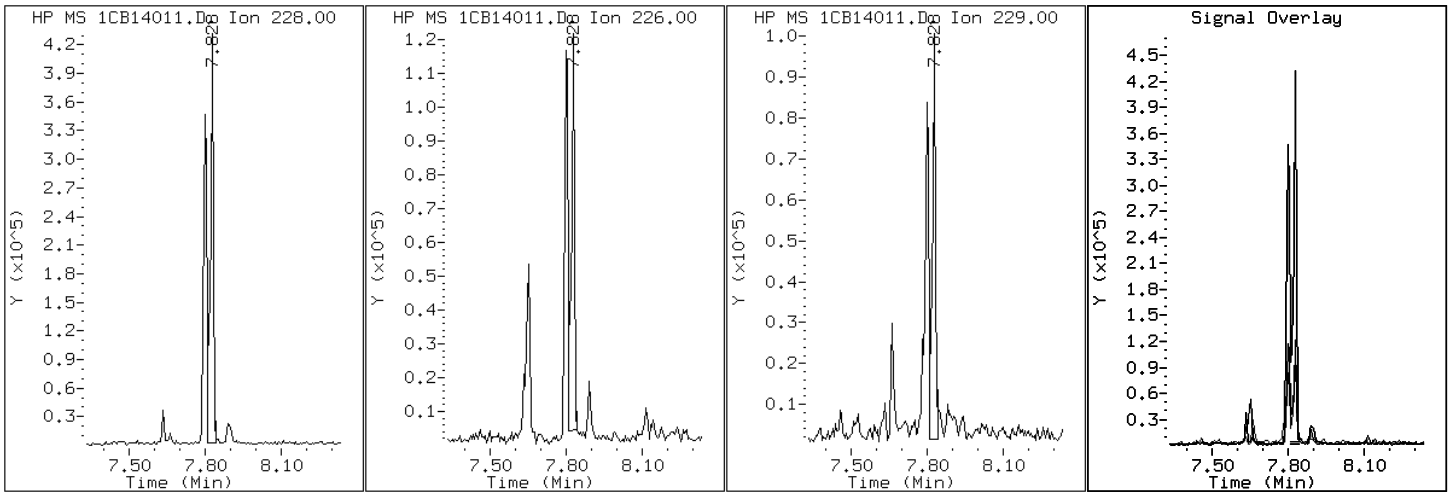
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

19 Chrysene



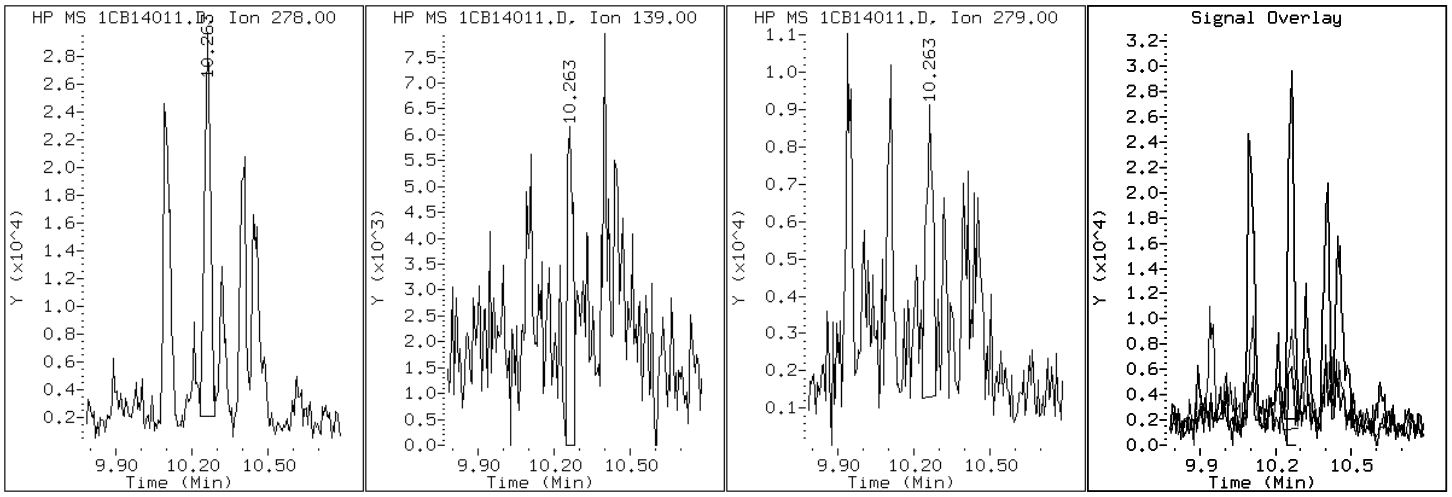
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

25 Dibenzo(a,h)anthracene



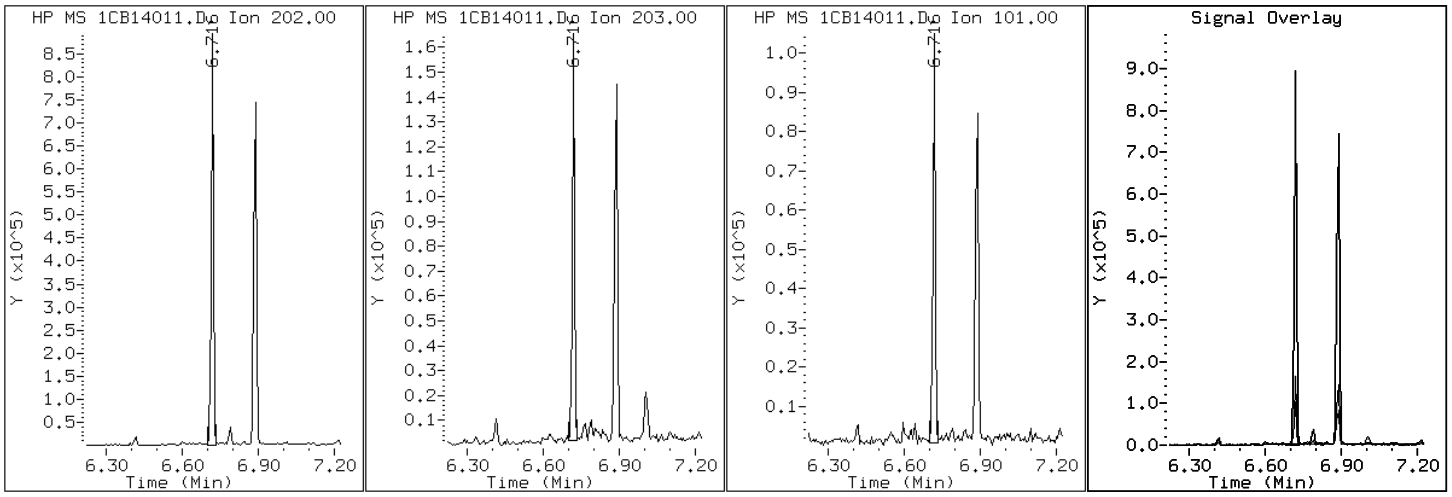
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

15 Fluoranthene



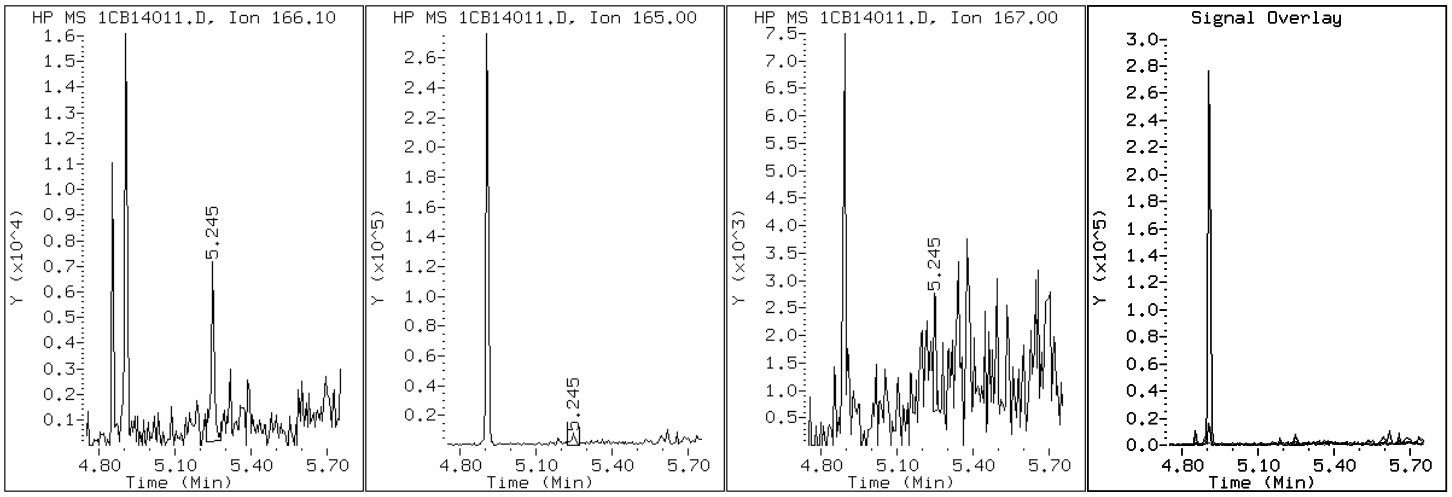
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

9 Fluorene



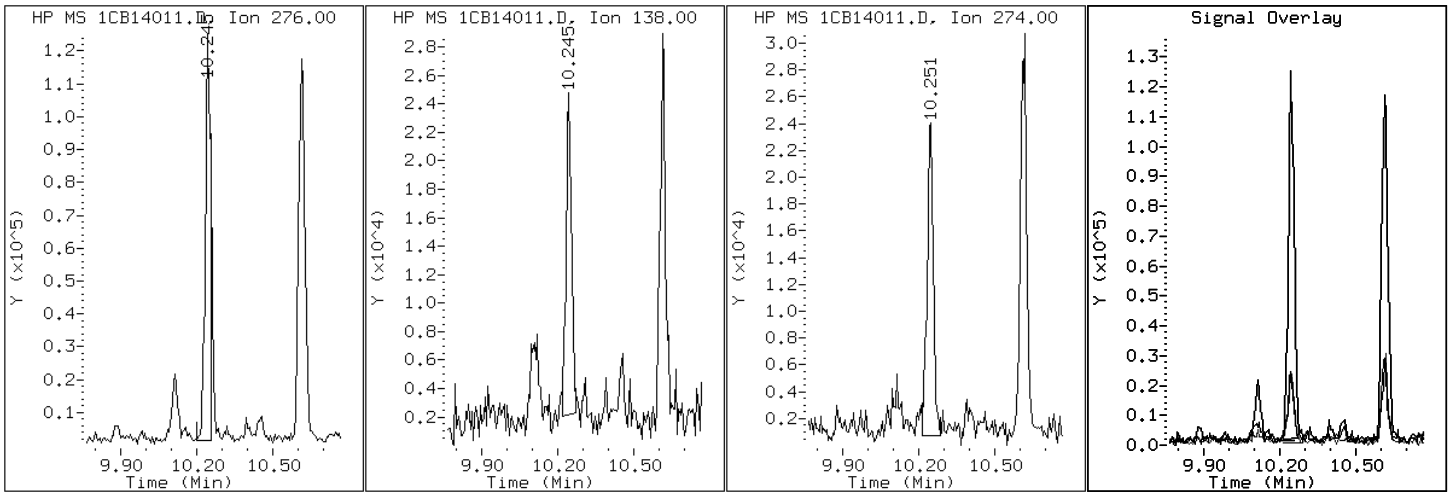
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

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



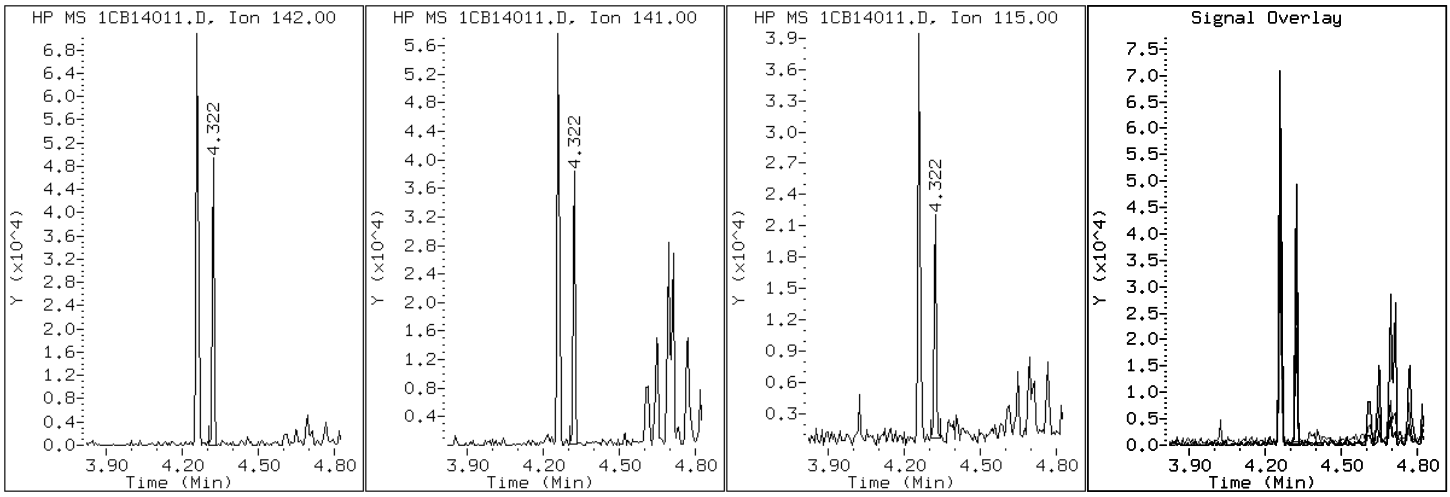
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

4 1-Methylnaphthalene



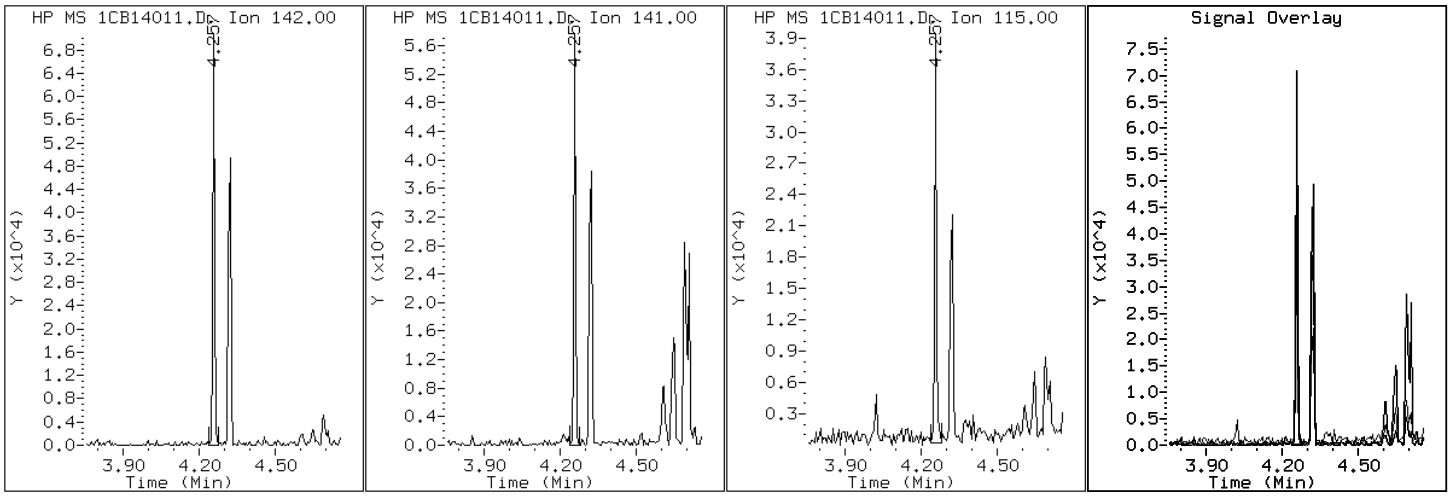
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

3 2-Methylnaphthalene



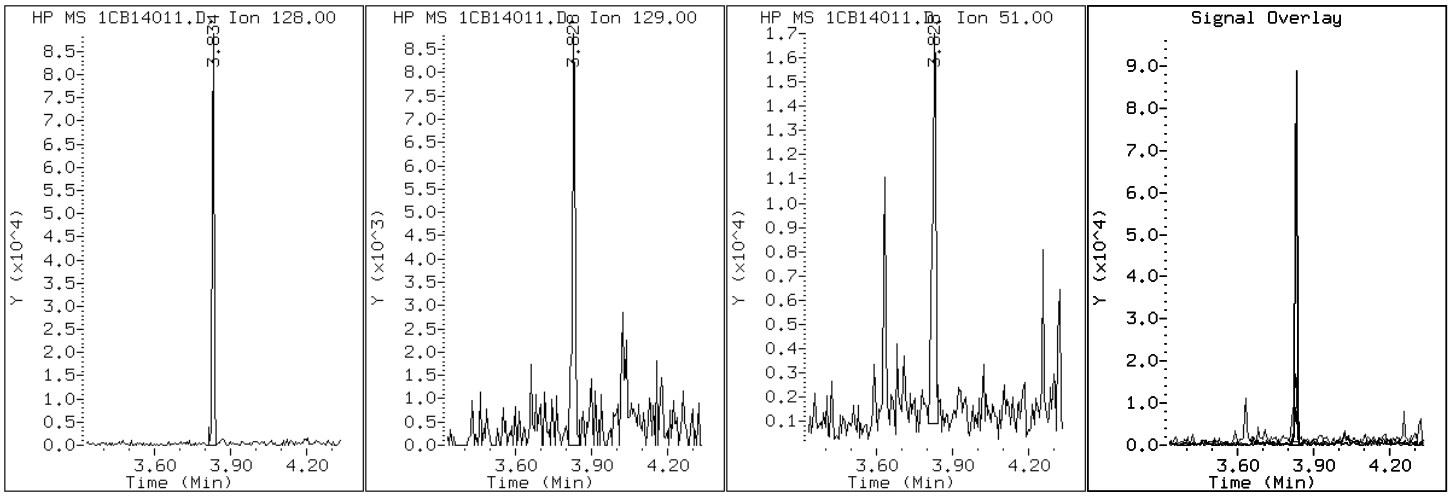
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

2 Naphthalene



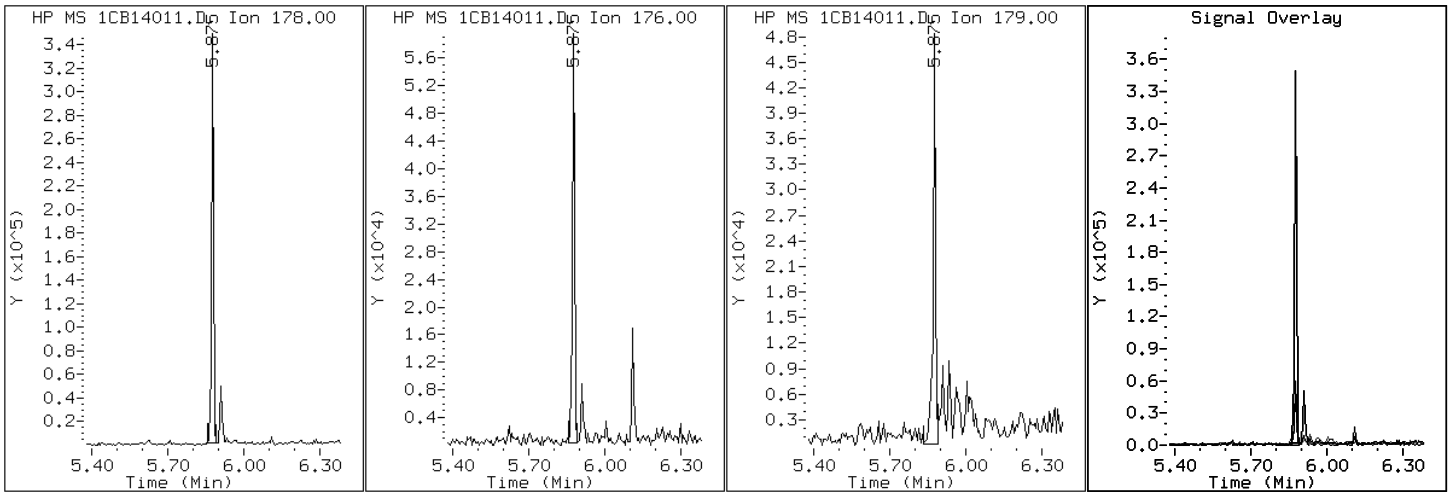
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

11 Phenanthrene



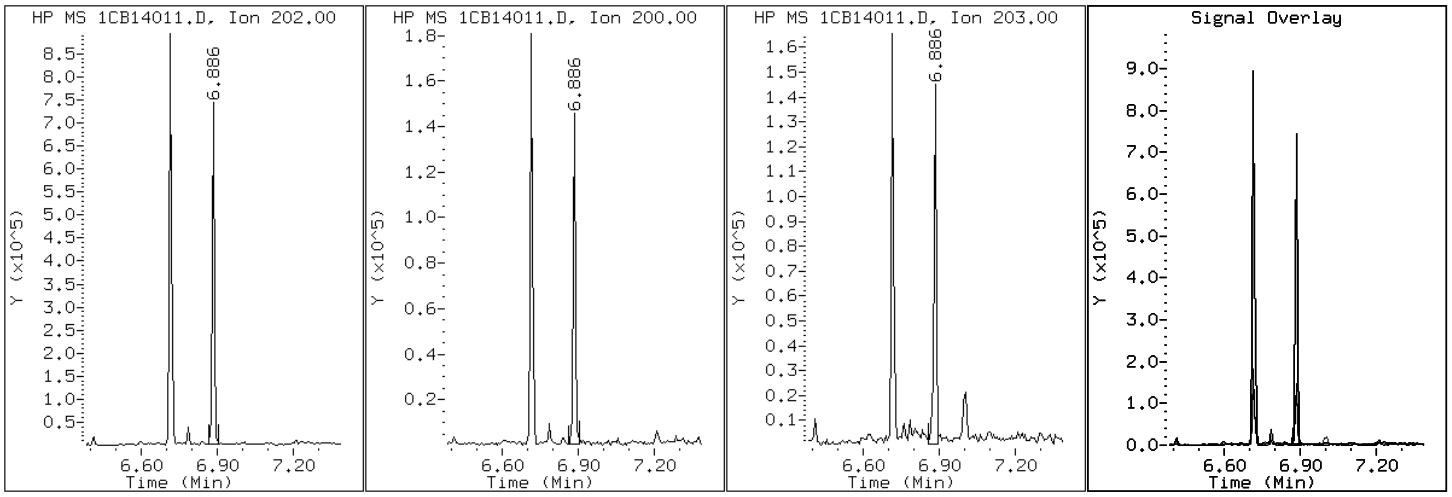
Data File: 1CB14011.D

Date: 14-FEB-2013 17:26

Client ID: CV0748E-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-17-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB14011.D
Inj. Date and Time: 14-FEB-2013 17:26
Instrument ID: BSMC5973.i
Client ID: CV0748E-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

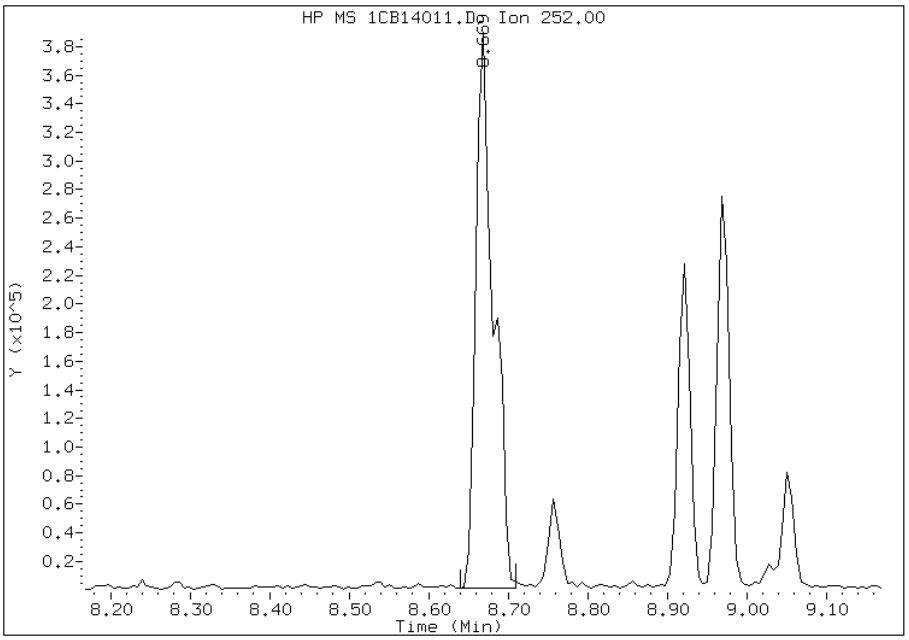
Processing Integration Results

RT: 8.67

Response: 602587

Amount: 7

Conc: 784



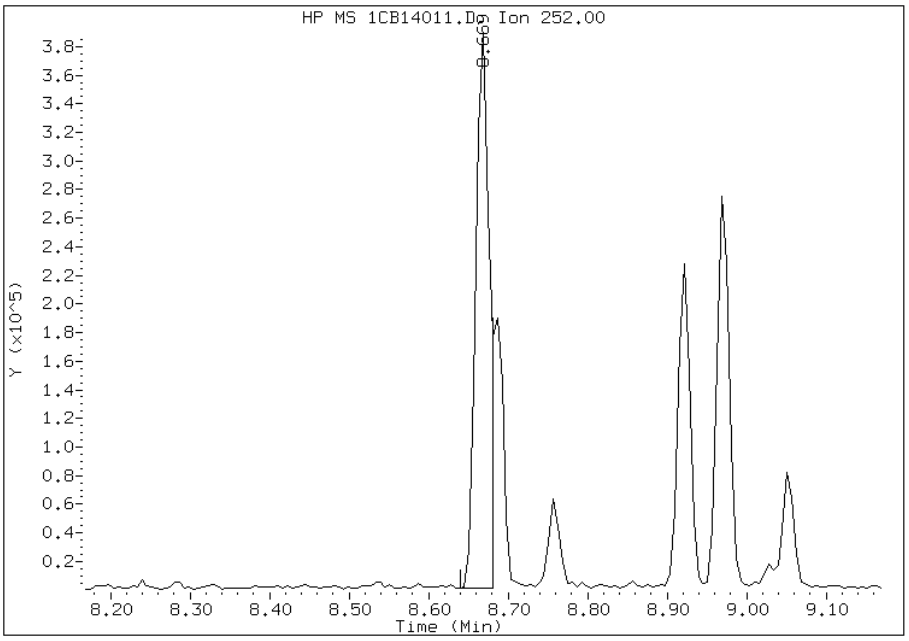
Manual Integration Results

RT: 8.67

Response: 464018

Amount: 6

Conc: 604



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:02
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB14011.D
Inj. Date and Time: 14-FEB-2013 17:26
Instrument ID: BSMC5973.i
Client ID: CV0748E-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

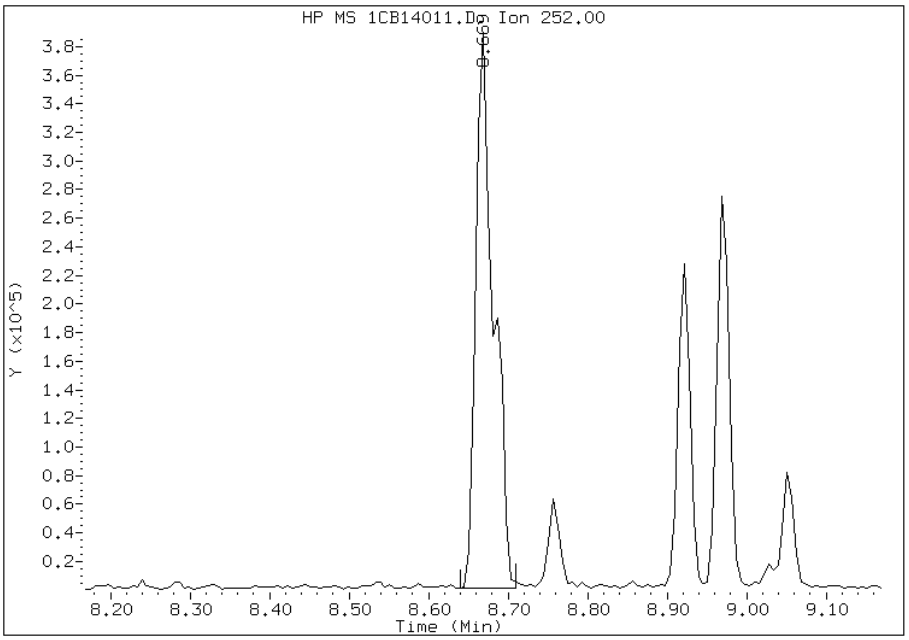
Processing Integration Results

RT: 8.67

Response: 602545

Amount: 7

Conc: 711



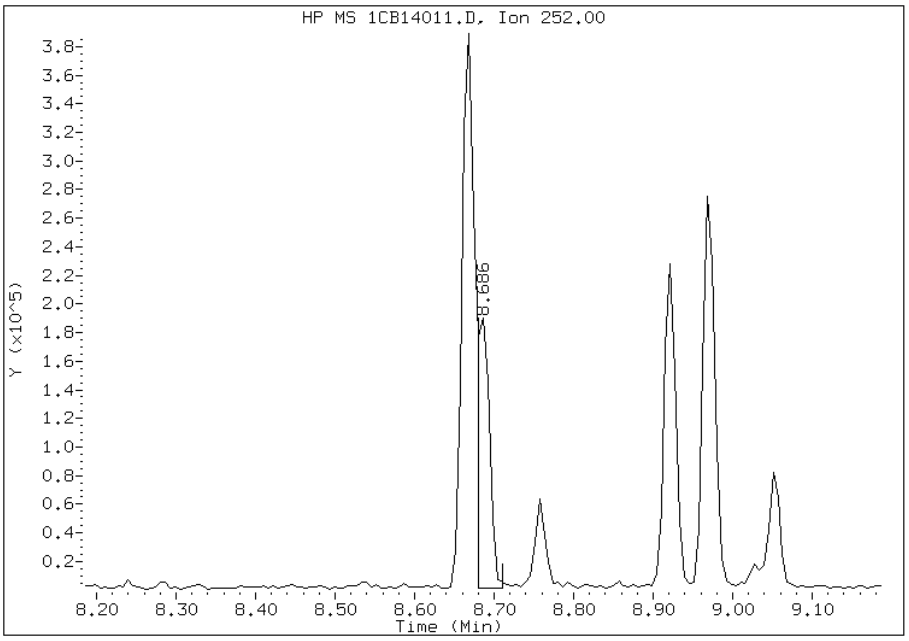
Manual Integration Results

RT: 8.69

Response: 200522

Amount: 2

Conc: 237



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:02
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB14011.D
Inj. Date and Time: 14-FEB-2013 17:26
Instrument ID: BSMC5973.i
Client ID: CV0748E-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

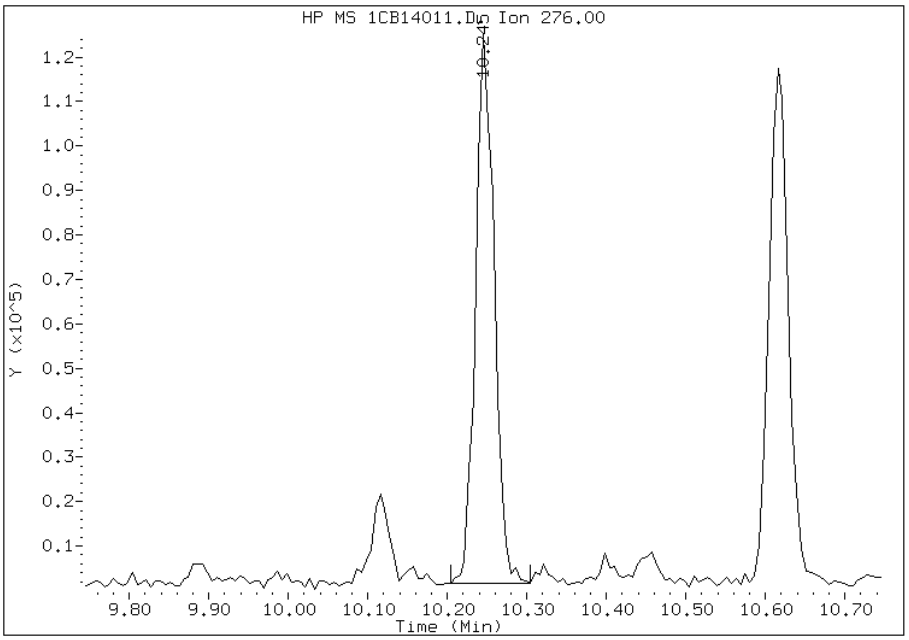
Processing Integration Results

RT: 10.25

Response: 199145

Amount: 3

Conc: 283



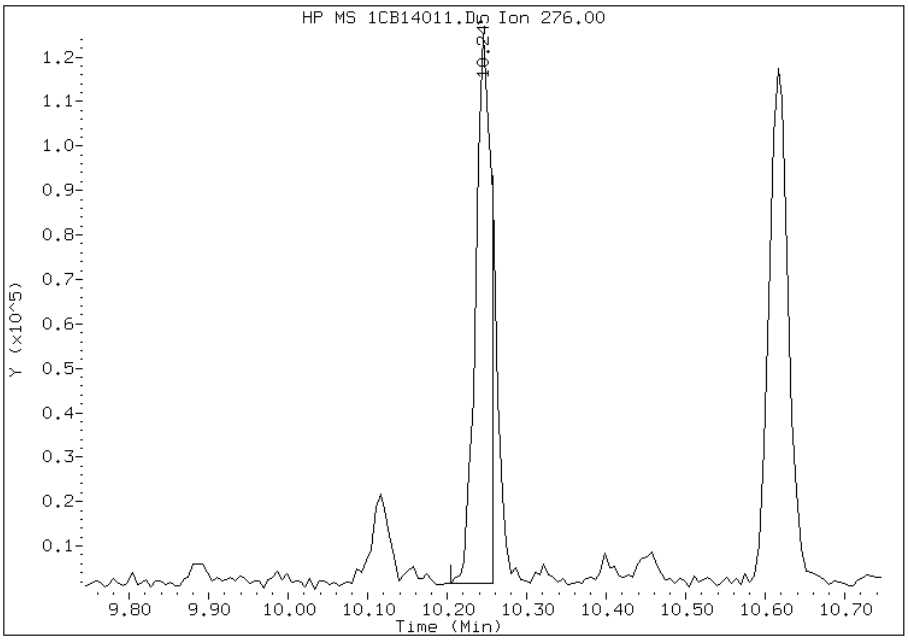
Manual Integration Results

RT: 10.25

Response: 171579

Amount: 2

Conc: 244



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:02
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0748F-CS | Lab Sample ID: 680-87218-18

Matrix: Solid | Lab File ID: 1CB14012.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 10:27

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 14.95(g) | Date Analyzed: 02/14/2013 17:44

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

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

% Moisture: 30.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134493 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	140	U	140	29
208-96-8	Acenaphthylene	21	J	58	7.2
120-12-7	Anthracene	34		12	6.0
56-55-3	Benzo[a]anthracene	200		12	5.6
50-32-8	Benzo[a]pyrene	240		15	7.5
205-99-2	Benzo[b]fluoranthene	370		18	8.8
191-24-2	Benzo[g,h,i]perylene	190		29	6.3
207-08-9	Benzo[k]fluoranthene	160		12	5.2
218-01-9	Chrysene	260		13	6.5
53-70-3	Dibenz(a,h)anthracene	55		29	5.9
206-44-0	Fluoranthene	410		29	5.8
86-73-7	Fluorene	10	J	29	5.9
193-39-5	Indeno[1,2,3-cd]pyrene	150		29	10
90-12-0	1-Methylnaphthalene	61		58	6.3
91-57-6	2-Methylnaphthalene	68		58	10
91-20-3	Naphthalene	60		58	6.3
85-01-8	Phenanthrene	190	B	12	5.6
129-00-0	Pyrene	360		29	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	83		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14012.D
Lab Smp Id: 680-87218-A-18-A Client Smp ID: CV0748F-CS
Inj Date : 14-FEB-2013 17:44
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-A-18-A
Misc Info : 680-87218-A-18-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 15:12 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.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	30.216	% 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	3.815	3.821	(1.000)	2119041	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.909	(1.000)	1634803	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.862	(1.000)	3171325	40.0000	
$ 14 o-Terphenyl	230	6.109	6.115	(1.042)	383900	8.26175	791.9064
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3483225	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3326263	40.0000	
2 Naphthalene	128	3.833	3.833	(1.005)	35052	0.62424	59.8343
3 2-Methylnaphthalene	142	4.257	4.257	(1.116)	26031	0.71296	68.3385
4 1-Methylnaphthalene	142	4.321	4.321	(1.133)	20983	0.63189	60.5684
5 Acenaphthylene	152	4.821	4.821	(0.983)	14092	0.21667	20.7681
9 Fluorene	166	5.245	5.251	(1.070)	5627	0.10746	10.3004
11 Phenanthrene	178	5.874	5.880	(1.002)	189517	2.00204	191.8999
12 Anthracene	178	5.909	5.909	(1.008)	30137	0.35336	33.8701
13 Carbazole	167	6.015	6.015	(1.026)	38316	0.51721	49.5754

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	393249	4.25144	407.5097
16 Pyrene	202	6.886	6.886	(0.882)	346243	3.73380	357.8932
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	198031	2.06165	197.6133
19 Chrysene	228	7.827	7.833	(1.002)	268777	2.70891	259.6553
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	315104	3.86398	370.3706(M)
21 Benzo(k)fluoranthene	252	8.680	8.697	(0.961)	148518	1.65314	158.4567(QM)
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	191645	2.46970	236.7258
24 Indeno(1,2,3-cd)pyrene	276	10.244	10.268	(1.134)	114615	1.53780	147.4015(M)
25 Dibenzo(a,h)anthracene	278	10.262	10.286	(1.136)	40673	0.57869	55.4685
26 Benzo(g,h,i)perylene	276	10.615	10.639	(1.175)	147296	1.94554	186.4846(M)

QC Flag Legend

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

Data File: 1CB14012.D

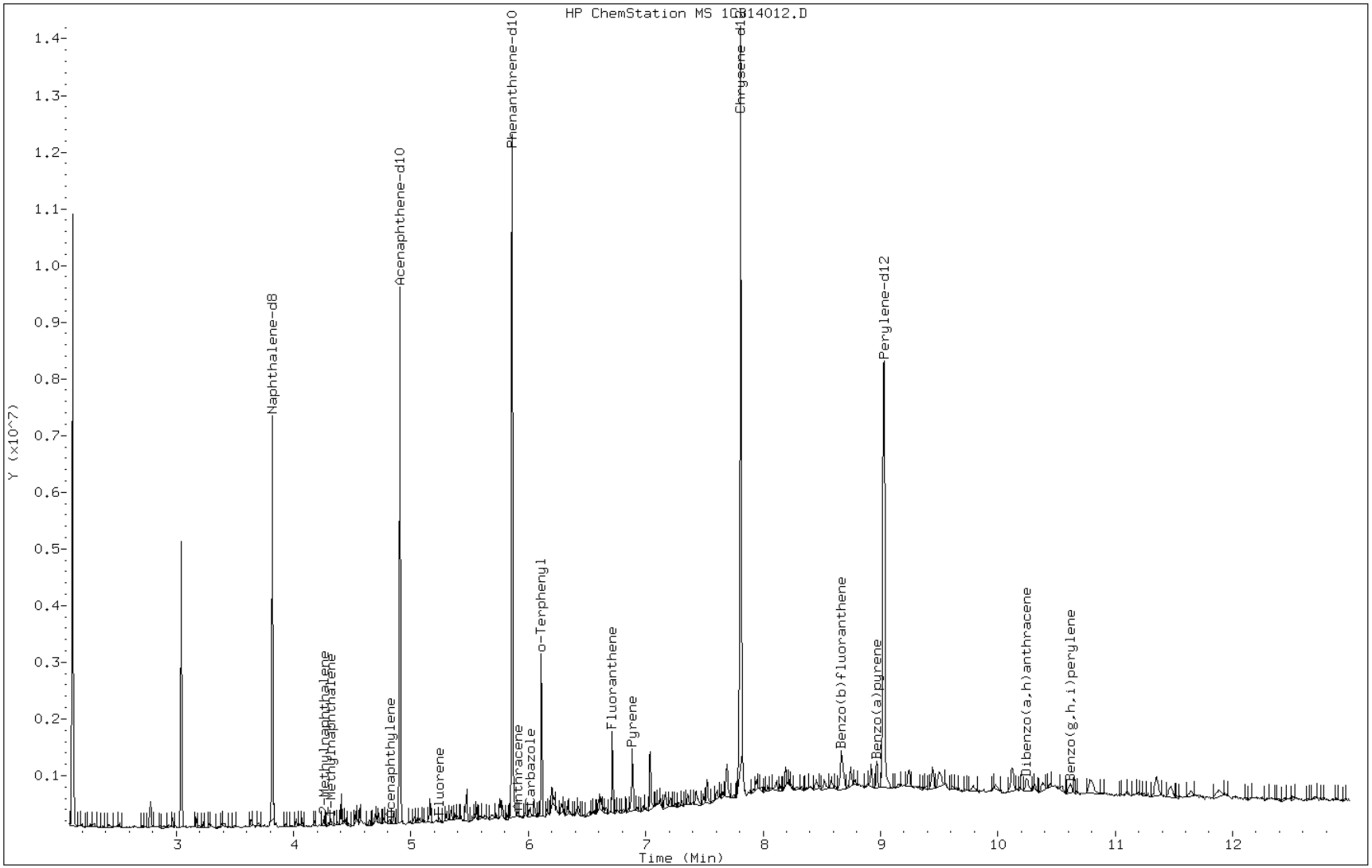
Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A

Operator: SCC



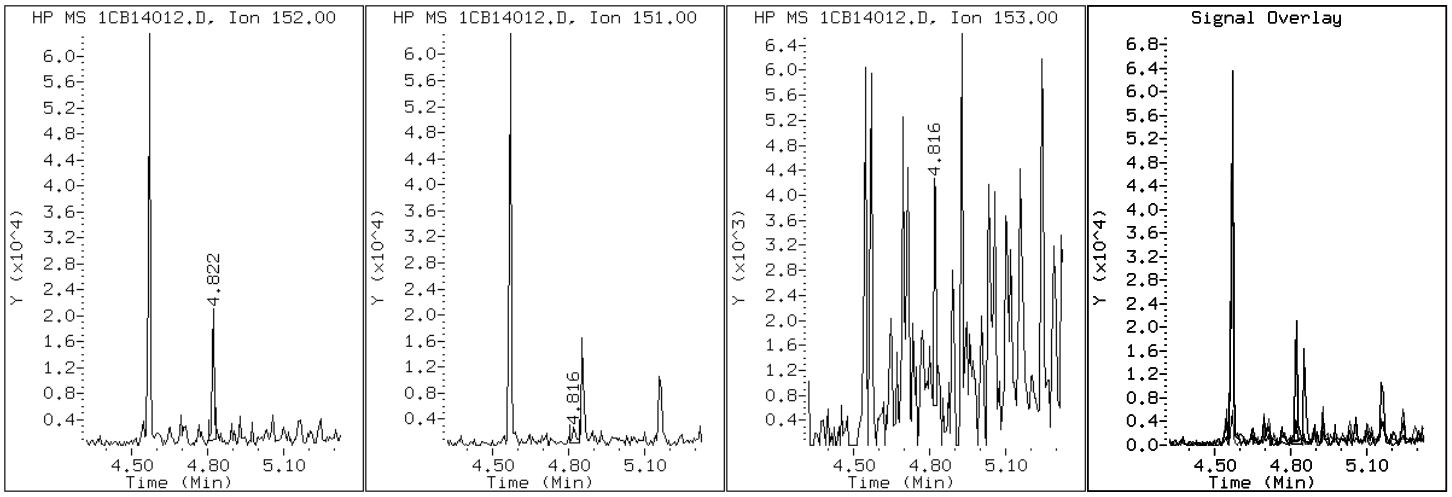
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

5 Acenaphthylene



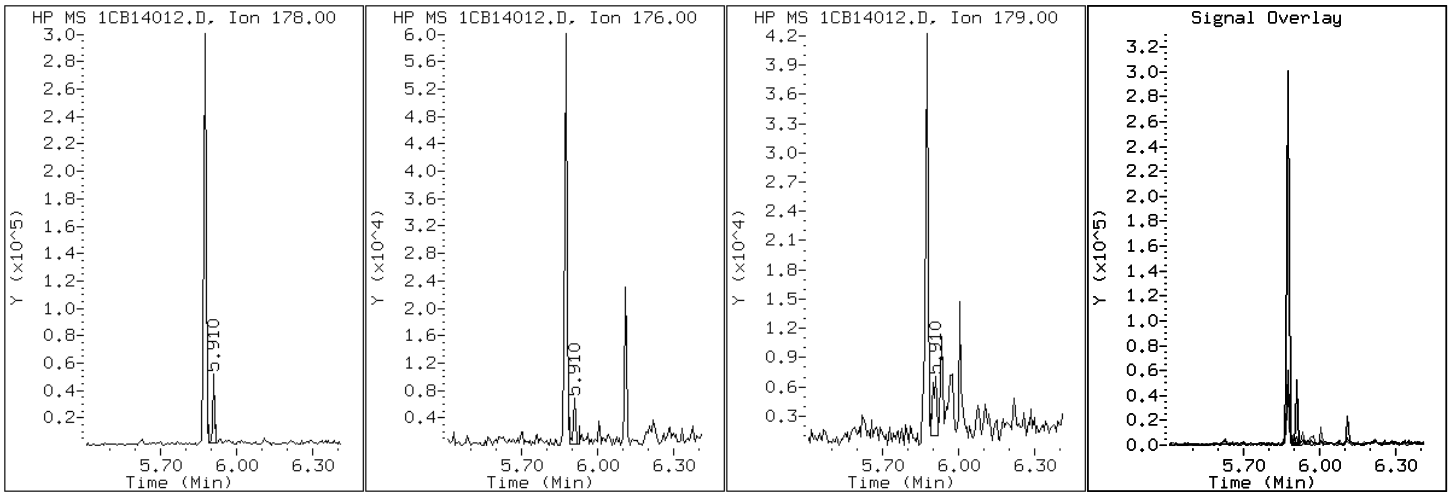
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

12 Anthracene



Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

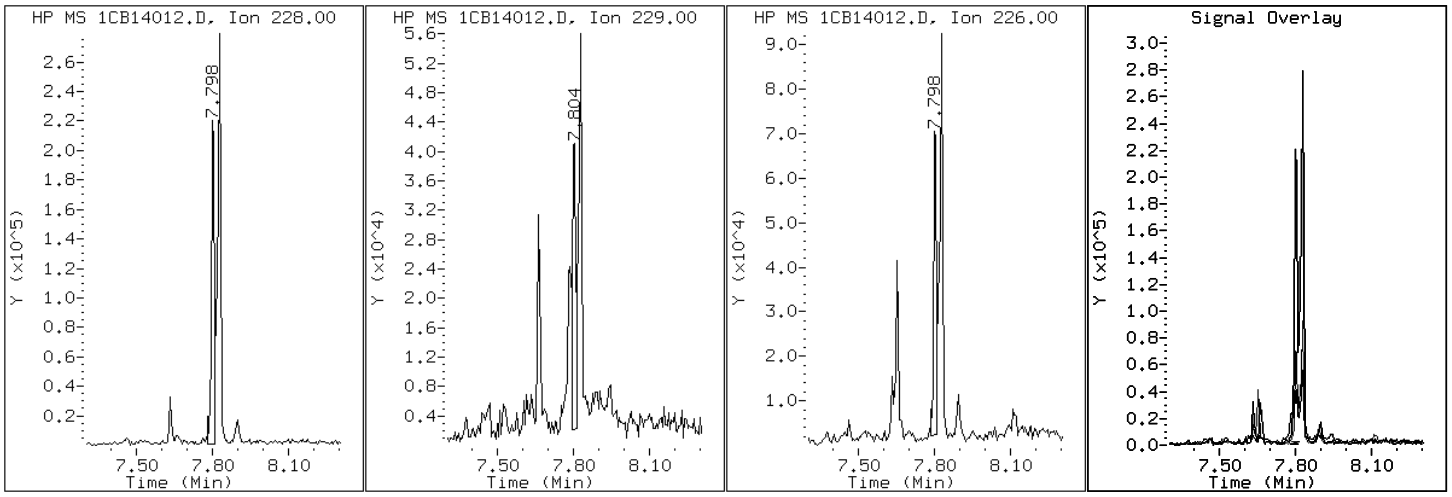
Client ID: CV0748F-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A

Operator: SCC

17 Benzo(a)anthracene



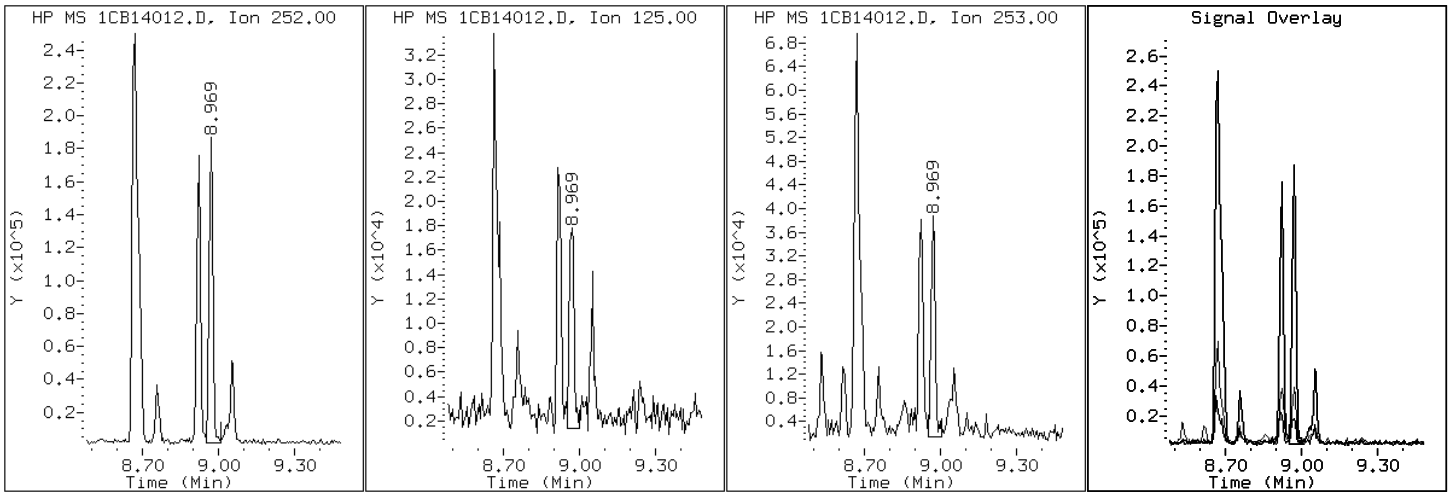
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

22 Benzo(a)pyrene



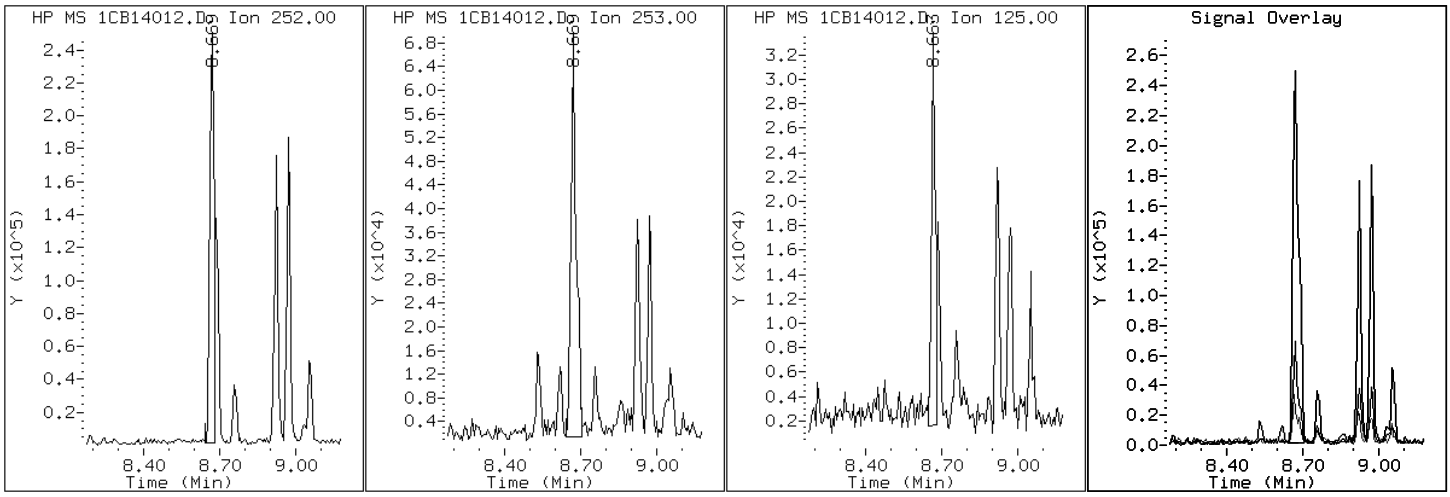
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

20 Benzo(b)fluoranthene



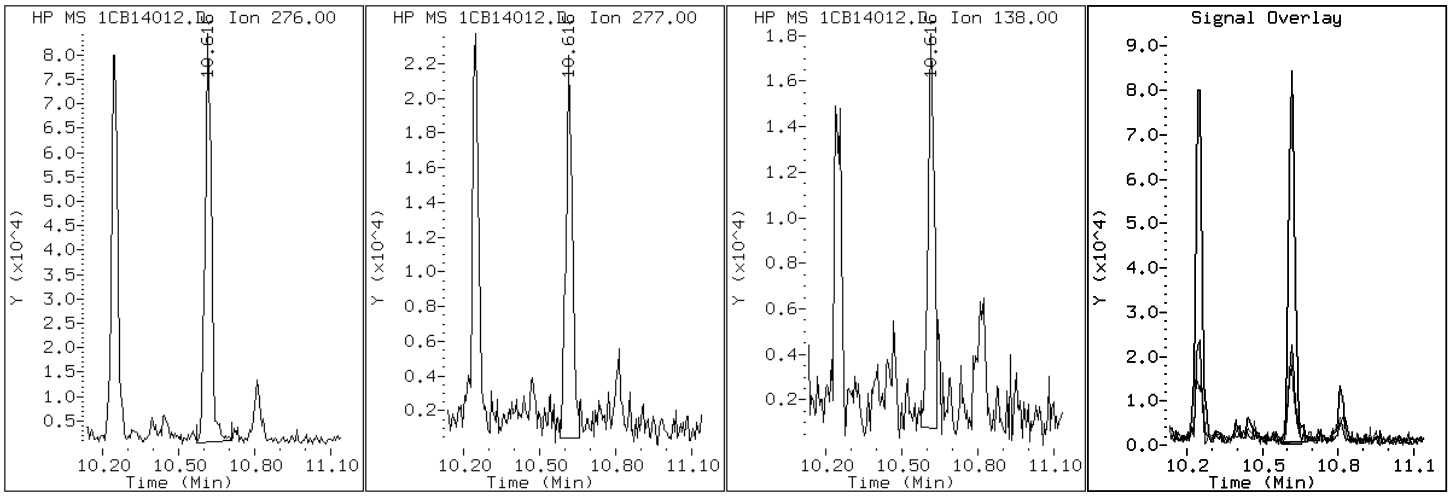
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

26 Benzo(g,h,i)perylene



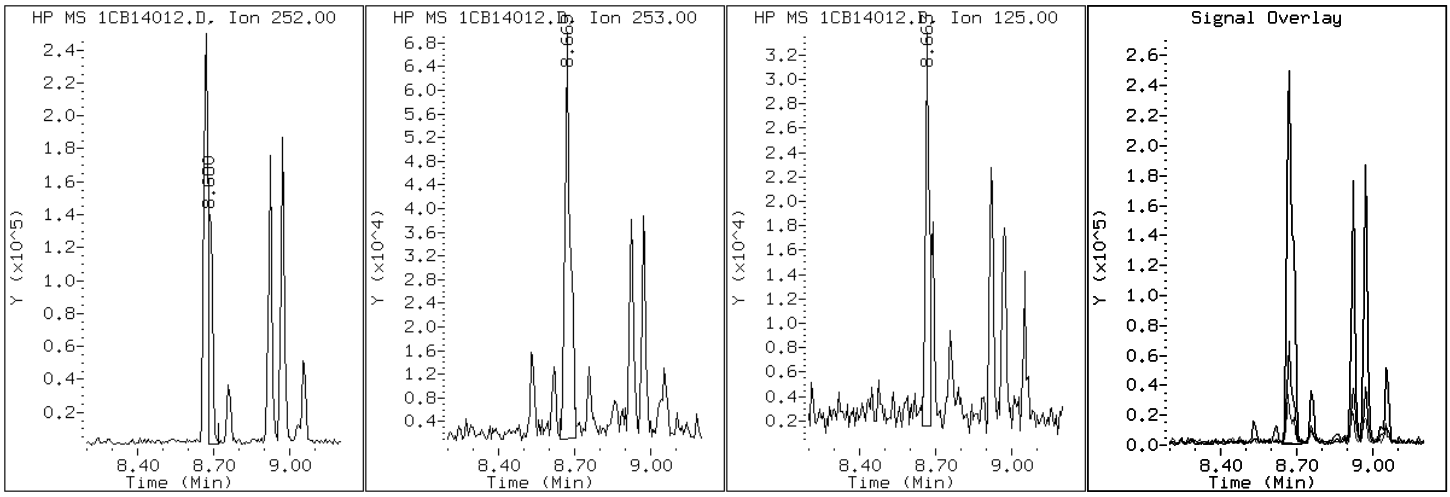
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

21 Benzo(k)fluoranthene



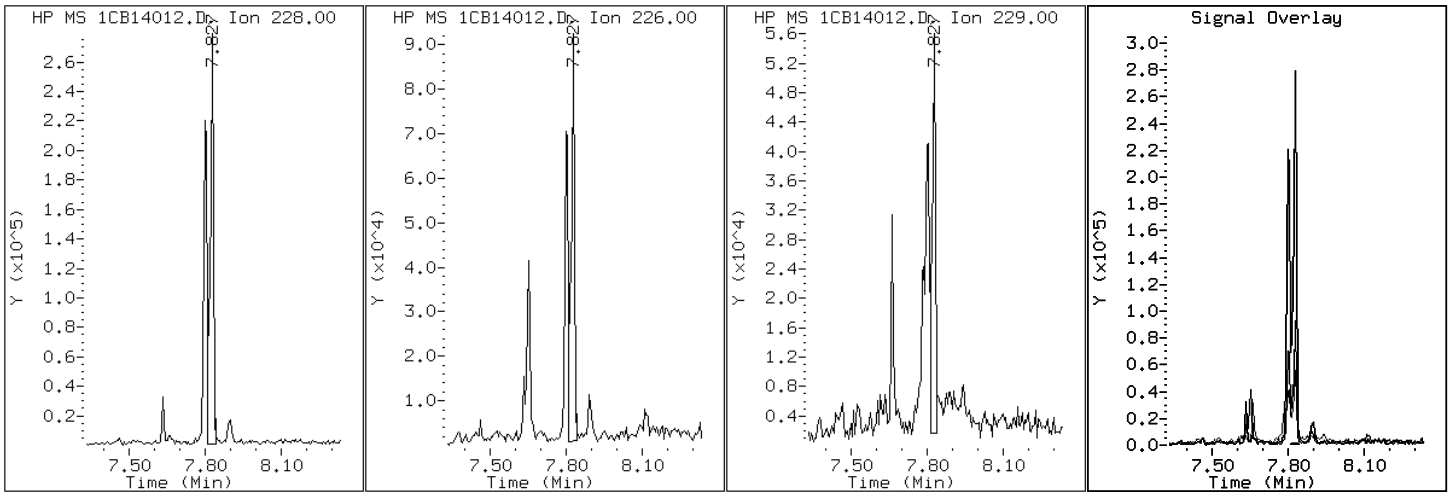
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

19 Chrysene



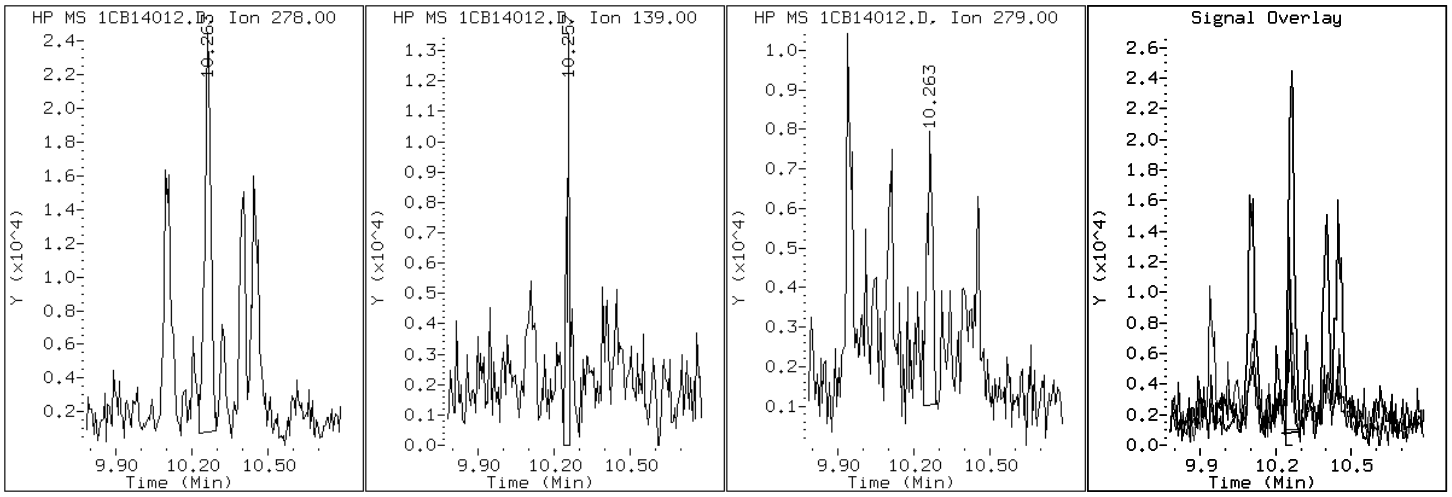
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

25 Dibenzo(a,h)anthracene



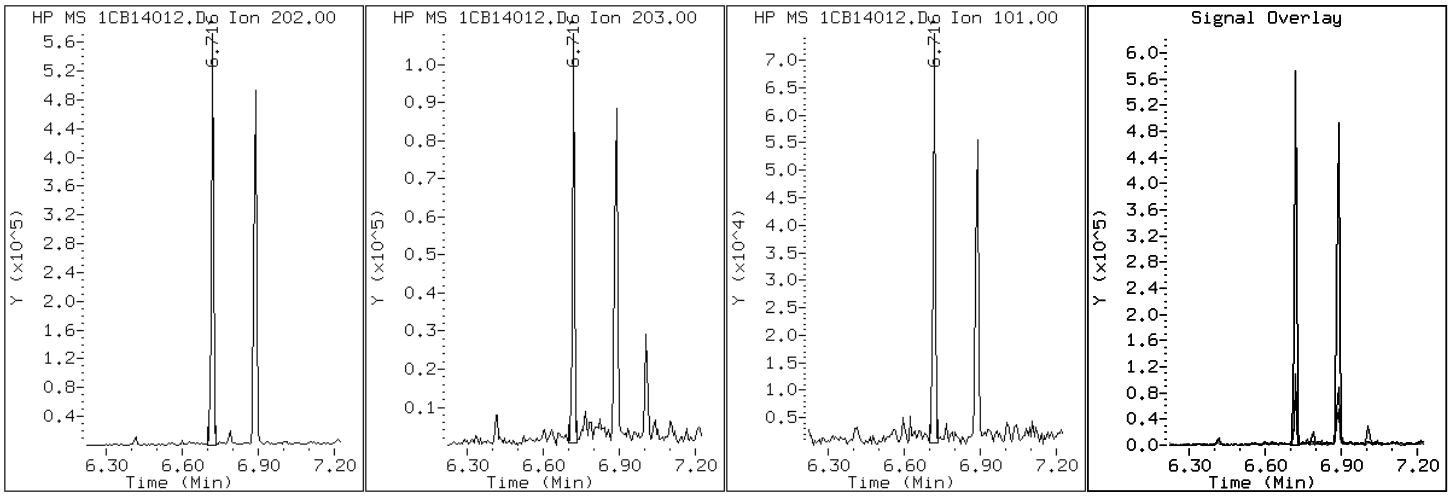
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

15 Fluoranthene



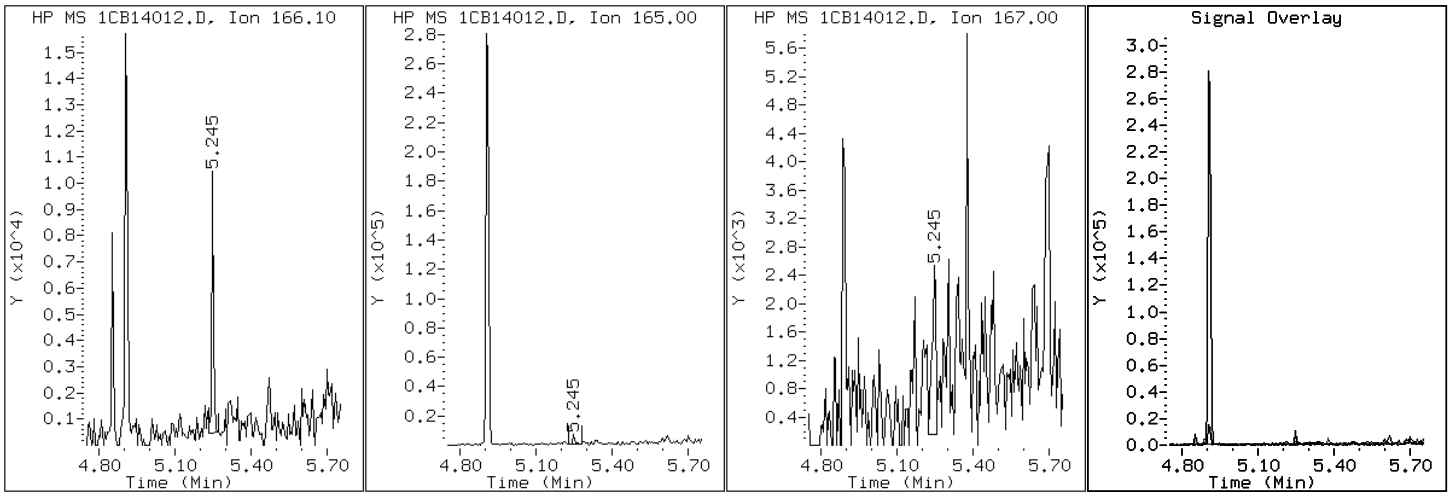
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

9 Fluorene



Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

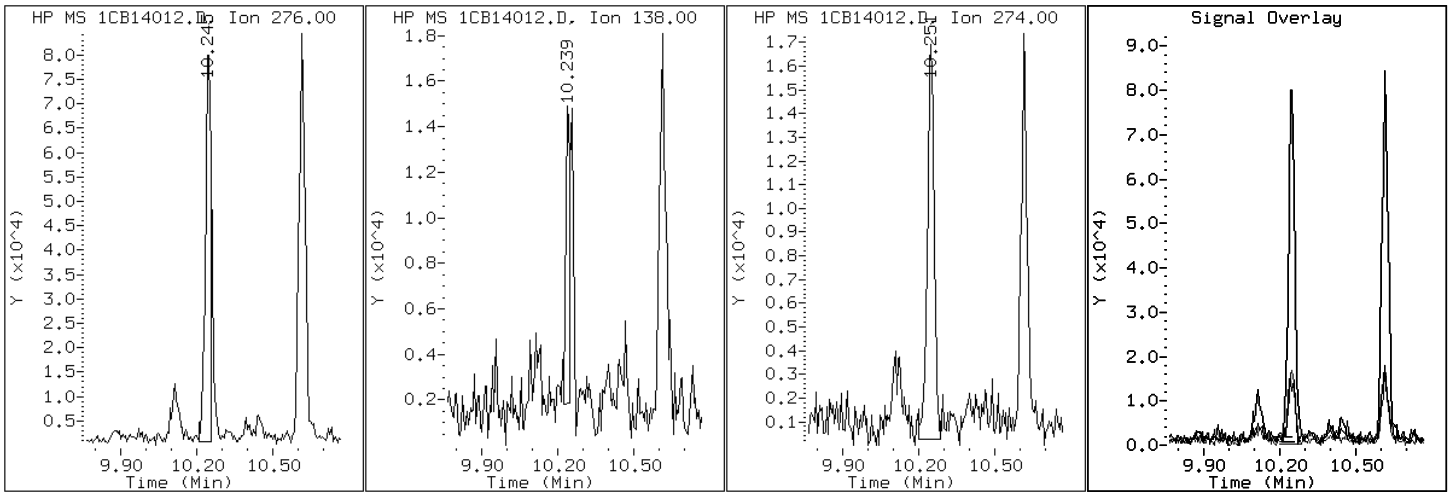
Client ID: CV0748F-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A

Operator: SCC

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



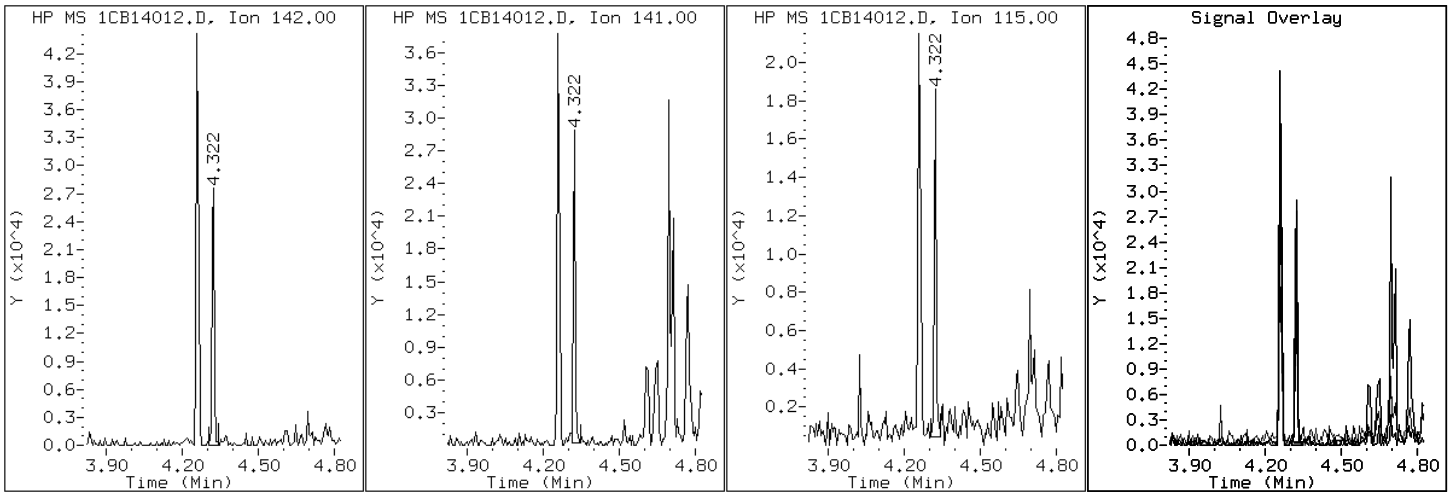
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

4 1-Methylnaphthalene



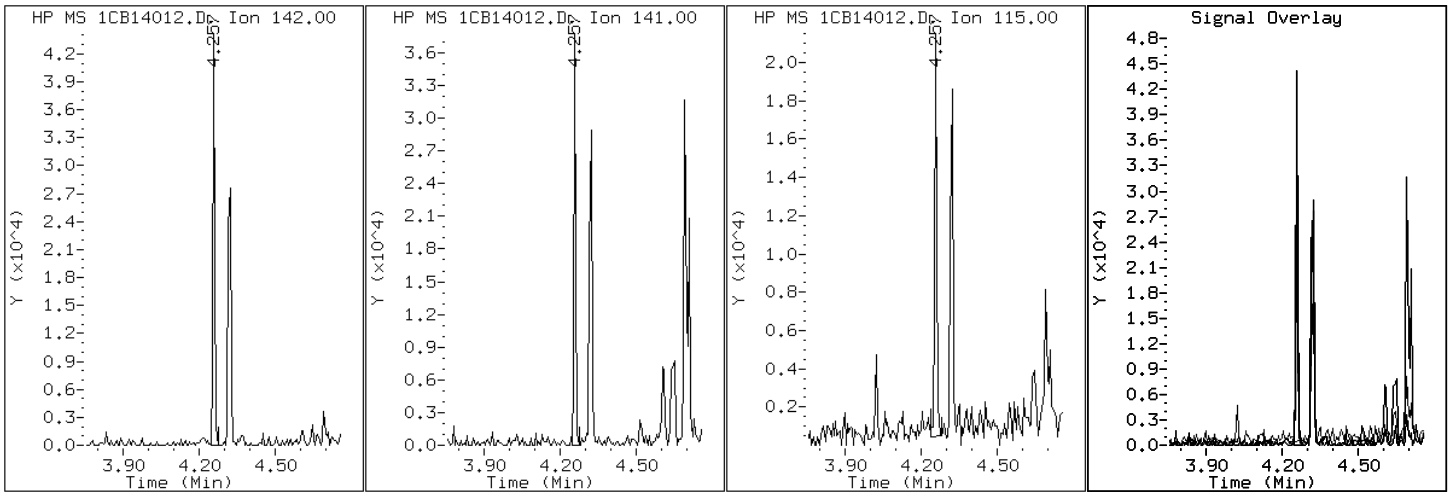
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

3 2-Methylnaphthalene



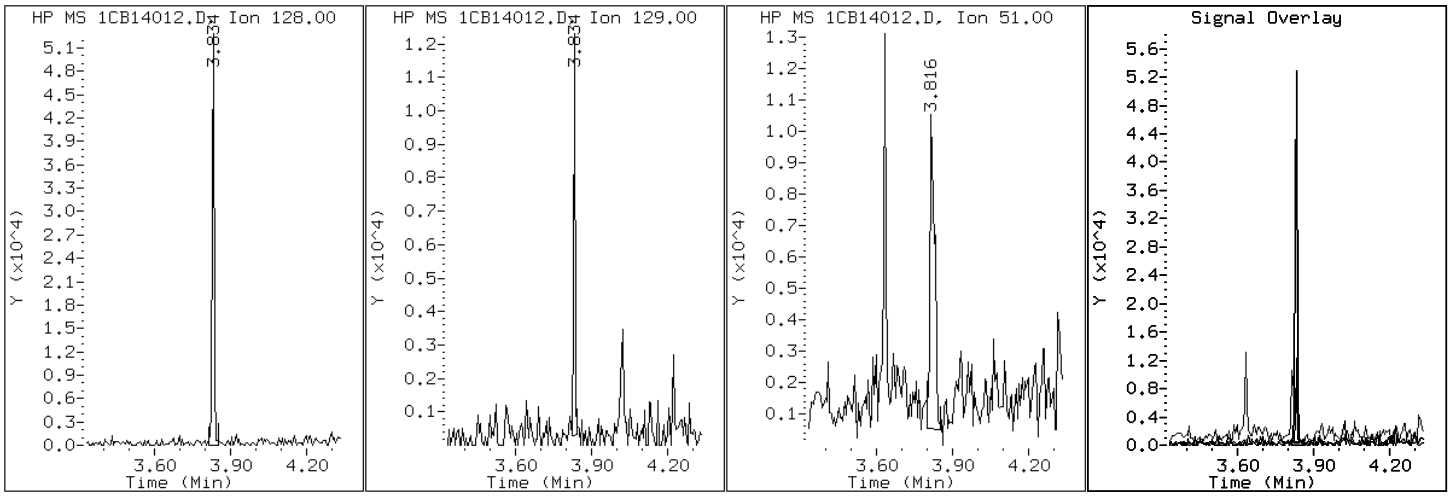
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

2 Naphthalene



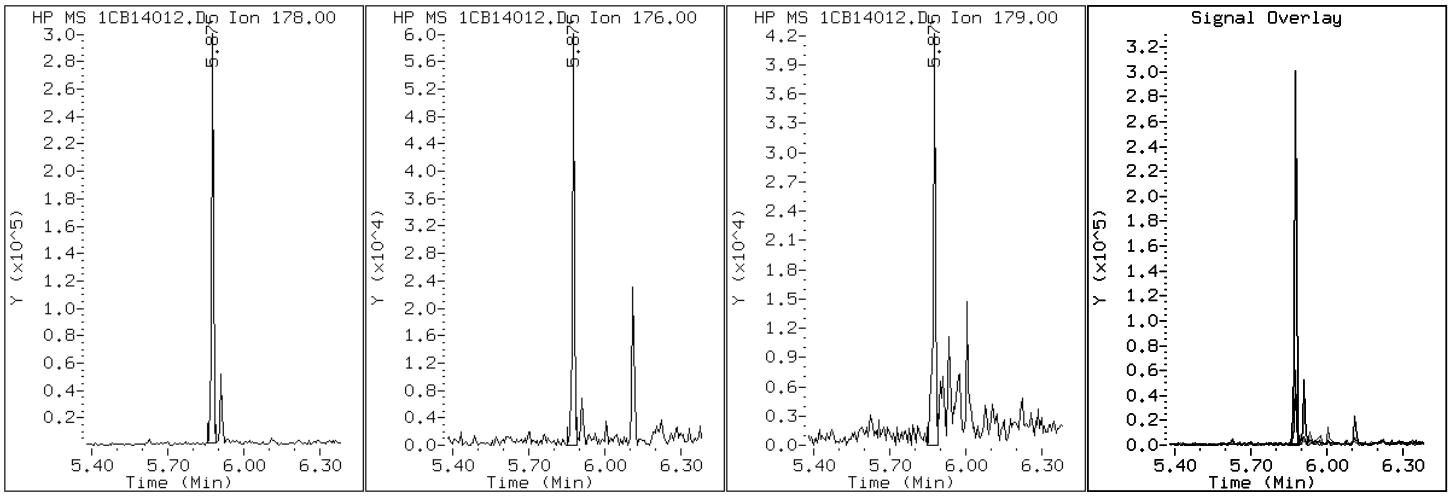
Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

Client ID: CV0748F-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A Operator: SCC

11 Phenanthrene



Data File: 1CB14012.D

Date: 14-FEB-2013 17:44

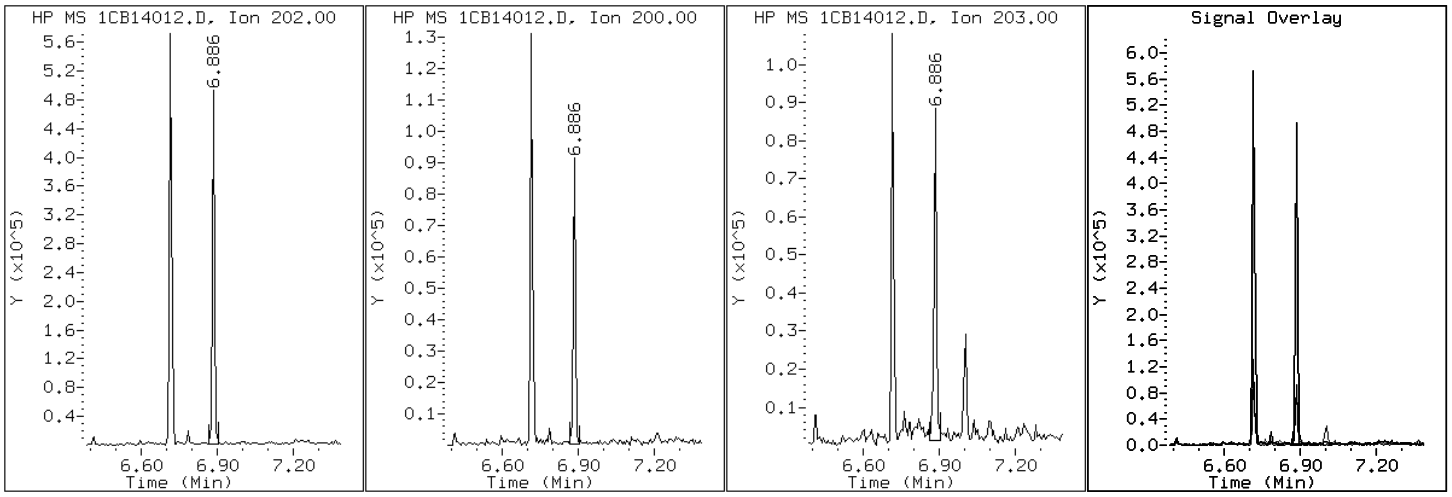
Client ID: CV0748F-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-18-A

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB14012.D
Inj. Date and Time: 14-FEB-2013 17:44
Instrument ID: BSMC5973.i
Client ID: CV0748F-CS
Compound: 20 Benzo(b)fluoranthene
CAS #: 205-99-2
Report Date: 02/15/2013

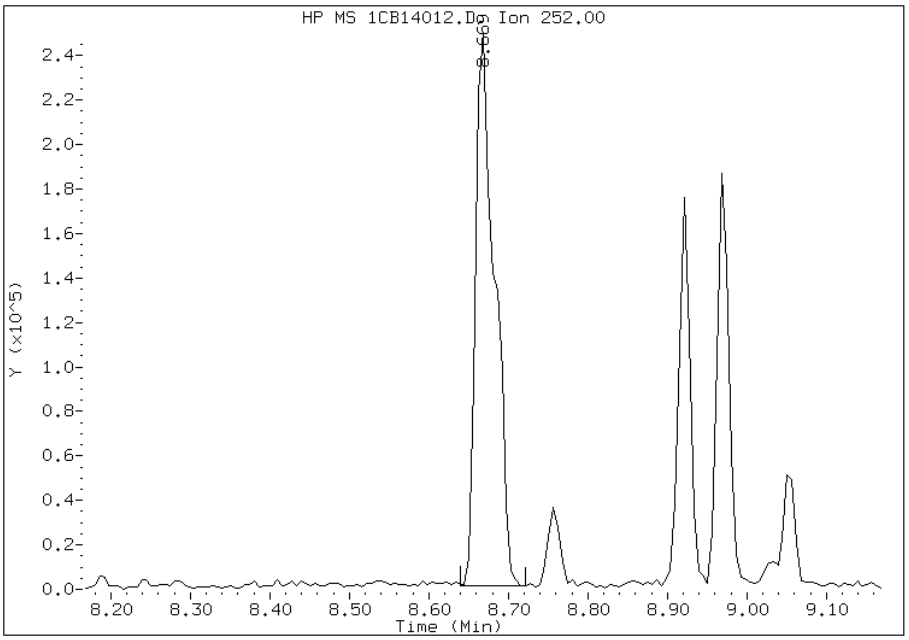
Processing Integration Results

RT: 8.67

Response: 412008

Amount: 5

Conc: 484



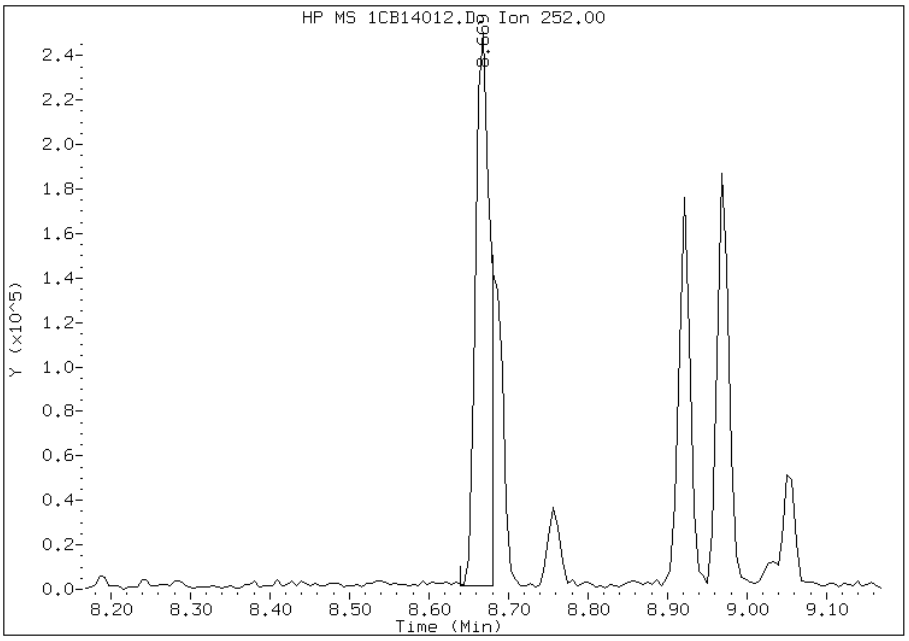
Manual Integration Results

RT: 8.67

Response: 315104

Amount: 4

Conc: 370



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:03
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CB14012.D
Inj. Date and Time: 14-FEB-2013 17:44
Instrument ID: BSMC5973.i
Client ID: CV0748F-CS
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 02/15/2013

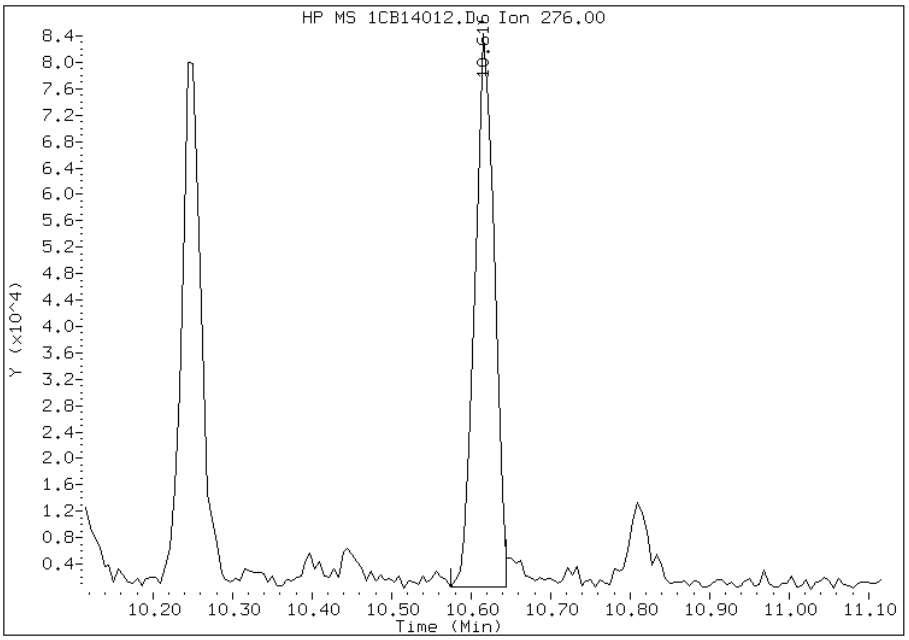
Processing Integration Results

RT: 10.62

Response: 141282

Amount: 2

Conc: 179



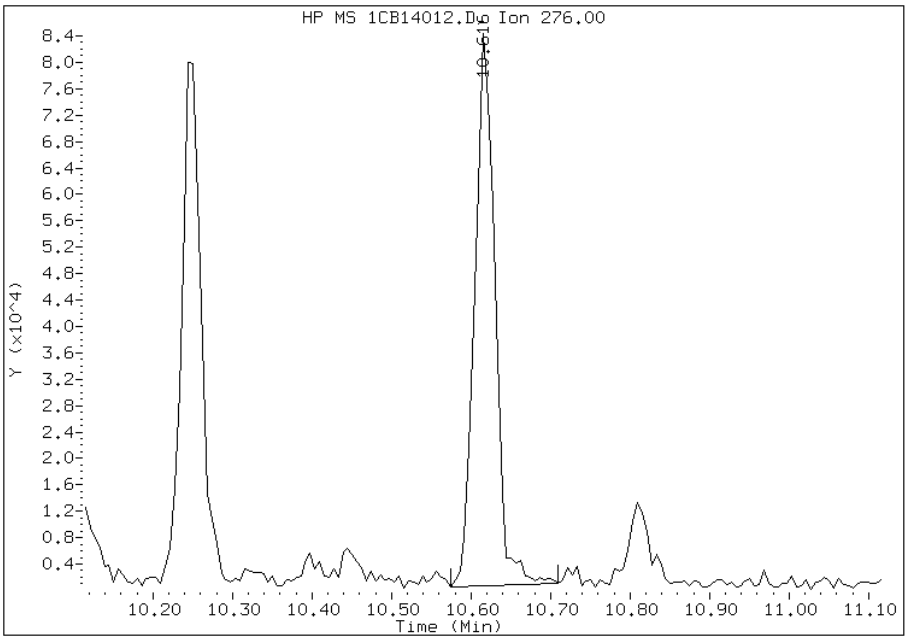
Manual Integration Results

RT: 10.62

Response: 147296

Amount: 2

Conc: 186



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB14012.D
Inj. Date and Time: 14-FEB-2013 17:44
Instrument ID: BSMC5973.i
Client ID: CV0748F-CS
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 02/15/2013

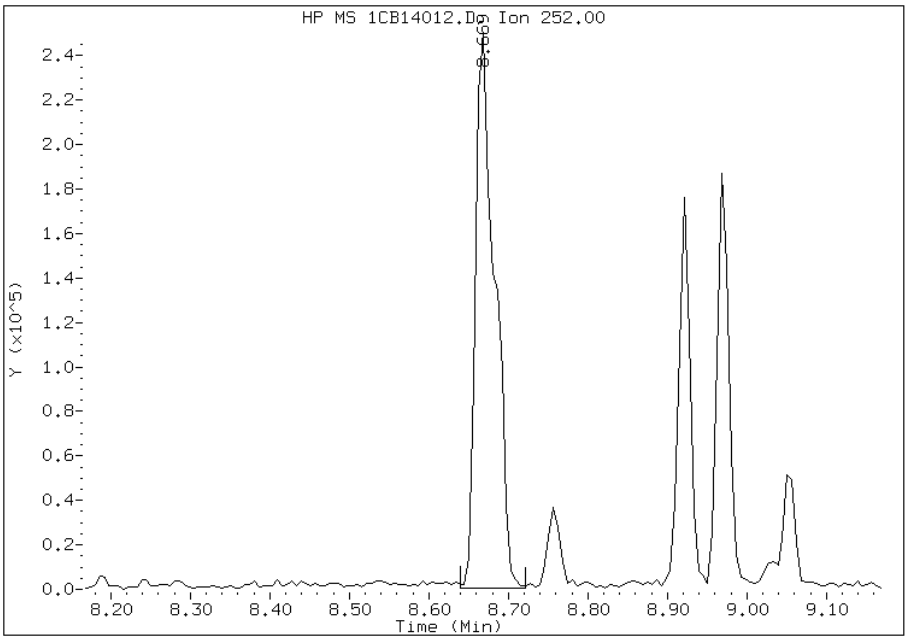
Processing Integration Results

RT: 8.67

Response: 418679

Amount: 5

Conc: 447



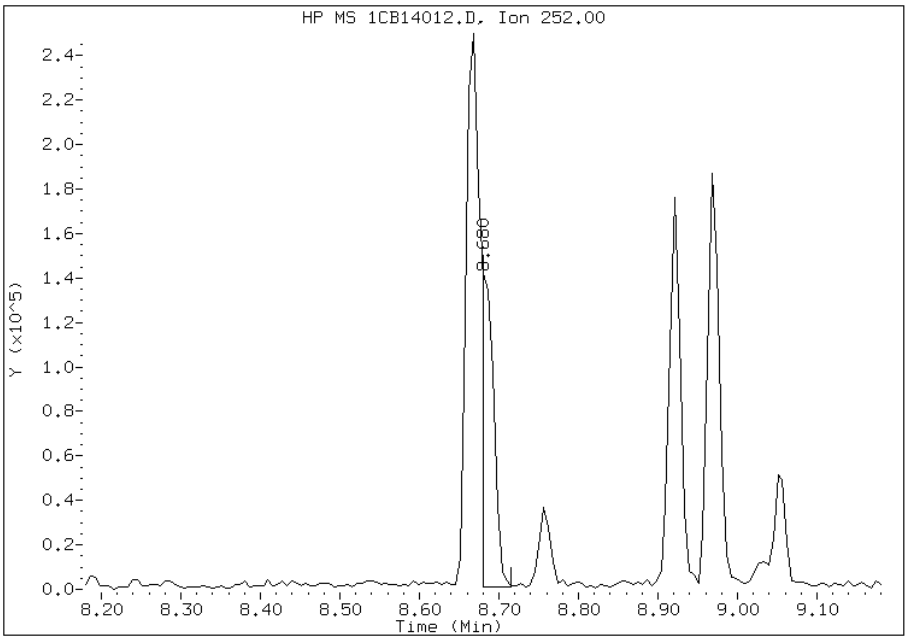
Manual Integration Results

RT: 8.68

Response: 148518

Amount: 2

Conc: 158



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:03
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CB14012.D
Inj. Date and Time: 14-FEB-2013 17:44
Instrument ID: BSMC5973.i
Client ID: CV0748F-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

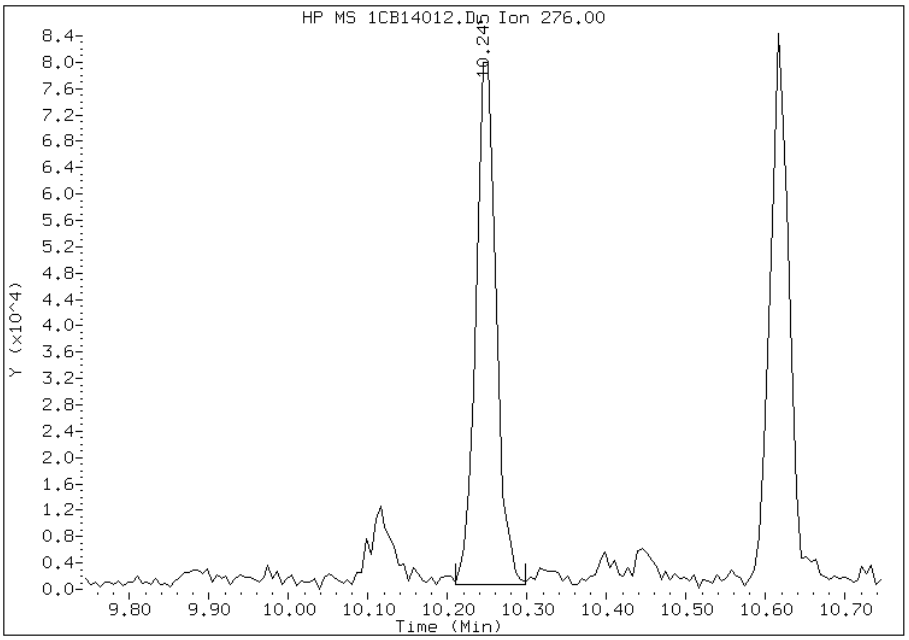
Processing Integration Results

RT: 10.24

Response: 139251

Amount: 2

Conc: 179



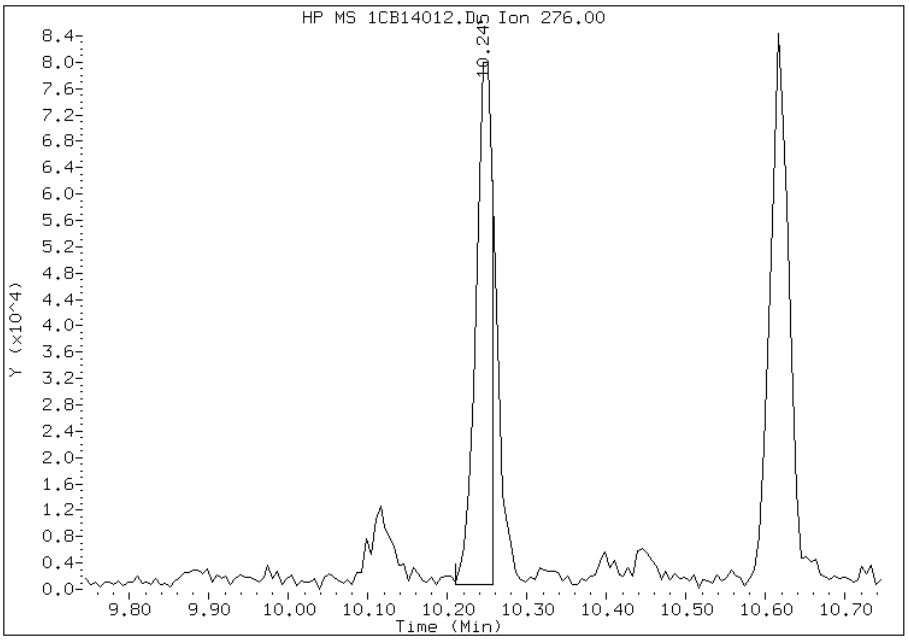
Manual Integration Results

RT: 10.24

Response: 114615

Amount: 2

Conc: 147



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:03
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0748G-CS | Lab Sample ID: 680-87218-19

Matrix: Solid | Lab File ID: 1CB14013.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 10:35

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.13(g) | Date Analyzed: 02/14/2013 18:02

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

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

% Moisture: 11.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134493 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	450	U	450	89
208-96-8	Acenaphthylene	110	J	180	22
120-12-7	Anthracene	84		37	19
56-55-3	Benzo[a]anthracene	630		36	17
50-32-8	Benzo[a]pyrene	600		46	23
205-99-2	Benzo[b]fluoranthene	1000		54	27
191-24-2	Benzo[g,h,i]perylene	440		89	20
207-08-9	Benzo[k]fluoranthene	410		36	16
218-01-9	Chrysene	650		40	20
53-70-3	Dibenz(a,h)anthracene	130		89	18
206-44-0	Fluoranthene	1100		89	18
86-73-7	Fluorene	24	J	89	18
193-39-5	Indeno[1,2,3-cd]pyrene	380		89	32
90-12-0	1-Methylnaphthalene	130	J	180	20
91-57-6	2-Methylnaphthalene	140	J	180	32
91-20-3	Naphthalene	130	J	180	20
85-01-8	Phenanthrene	460	B	36	17
129-00-0	Pyrene	1000		89	16

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14013.D
Lab Smp Id: 680-87218-A-19-A Client Smp ID: CV0748G-CS
Inj Date : 14-FEB-2013 18:02
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-A-19-A
Misc Info : 680-87218-A-19-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 15:12 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 13
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	15.130	Weight Extracted
M	11.052	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2242272	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.909	(1.000)	1749975	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.862	(1.000)	3320653	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	87226	1.79274	532.8445
* 18 Chrysene-d12	240	7.809	7.815	(1.000)	3676644	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3509628	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	26156	0.44021	130.8404
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	18819	0.48710	144.7785
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	15577	0.44331	131.7635
5 Acenaphthylene	152	4.821	4.821	(0.982)	25043	0.35970	106.9121
9 Fluorene	166	5.245	5.251	(1.068)	4615	0.08234	24.4719(Q)
11 Phenanthrene	178	5.874	5.880	(1.002)	151882	1.53232	455.4405
12 Anthracene	178	5.910	5.909	(1.008)	25214	0.28234	83.9184
13 Carbazole	167	6.015	6.015	(1.026)	18669	0.24067	71.5330

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	370554	3.82593	1137.1574
16 Pyrene	202	6.886	6.886	(0.882)	338291	3.45614	1027.2458
17 Benzo(a)anthracene	228	7.798	7.803	(0.998)	215923	2.12966	632.9849
19 Chrysene	228	7.827	7.833	(1.002)	230693	2.20276	654.7129
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	290497	3.37612	1003.4627
21 Benzo(k)fluoranthene	252	8.686	8.697	(0.962)	130833	1.38020	410.2285
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	165775	2.02470	601.7890
24 Indeno(1,2,3-cd)pyrene	276	10.250	10.268	(1.135)	100879	1.28279	381.2749(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.286	(1.135)	31897	0.43011	127.8402
26 Benzo(g,h,i)perylene	276	10.621	10.639	(1.176)	118819	1.48741	442.0944

QC Flag Legend

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

Data File: 1CB14013.D

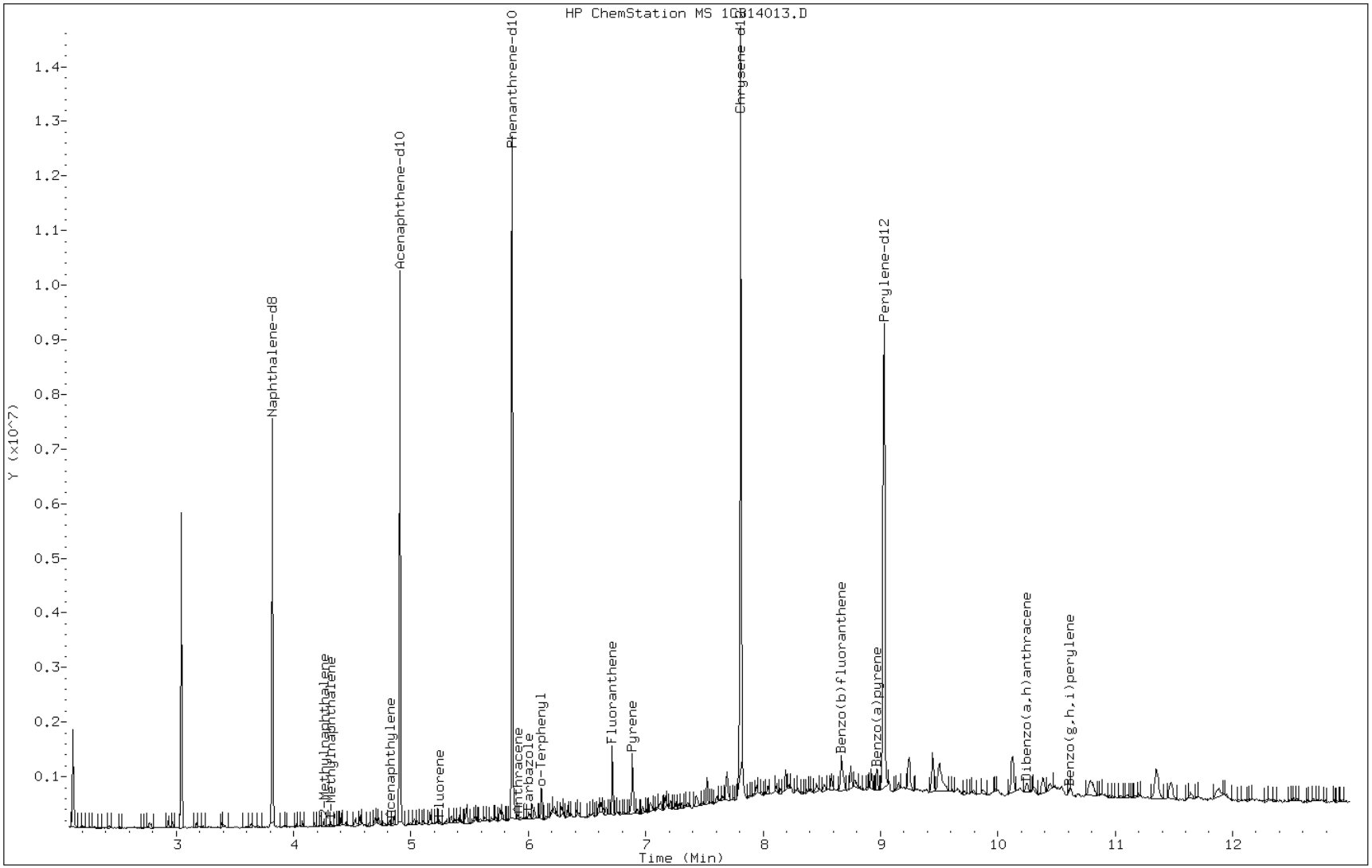
Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A

Operator: SCC



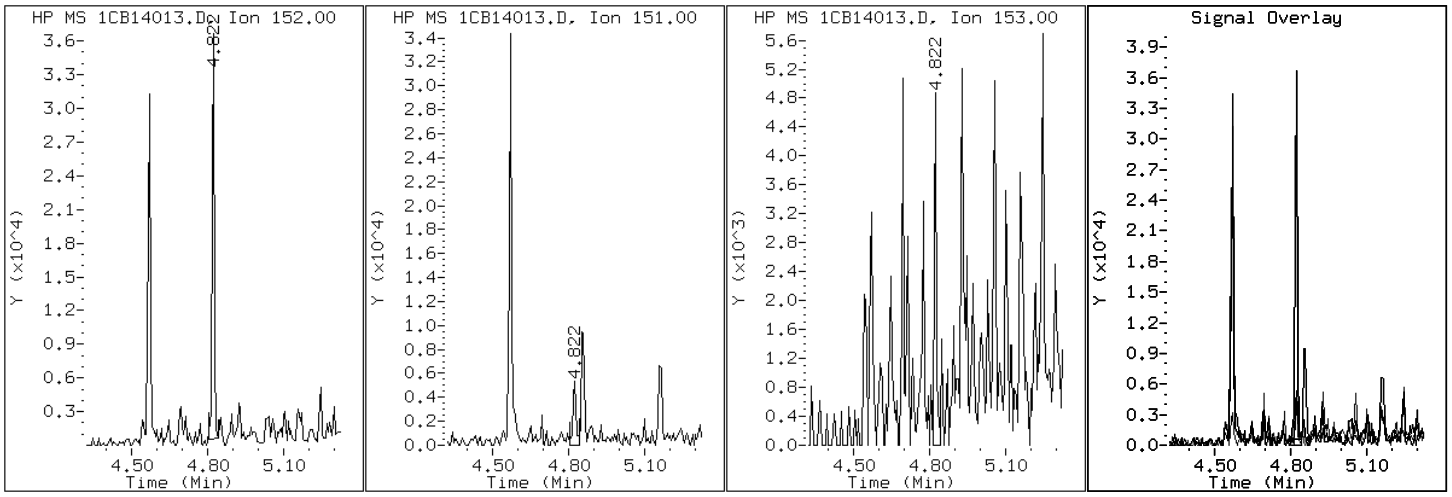
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

5 Acenaphthylene



Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

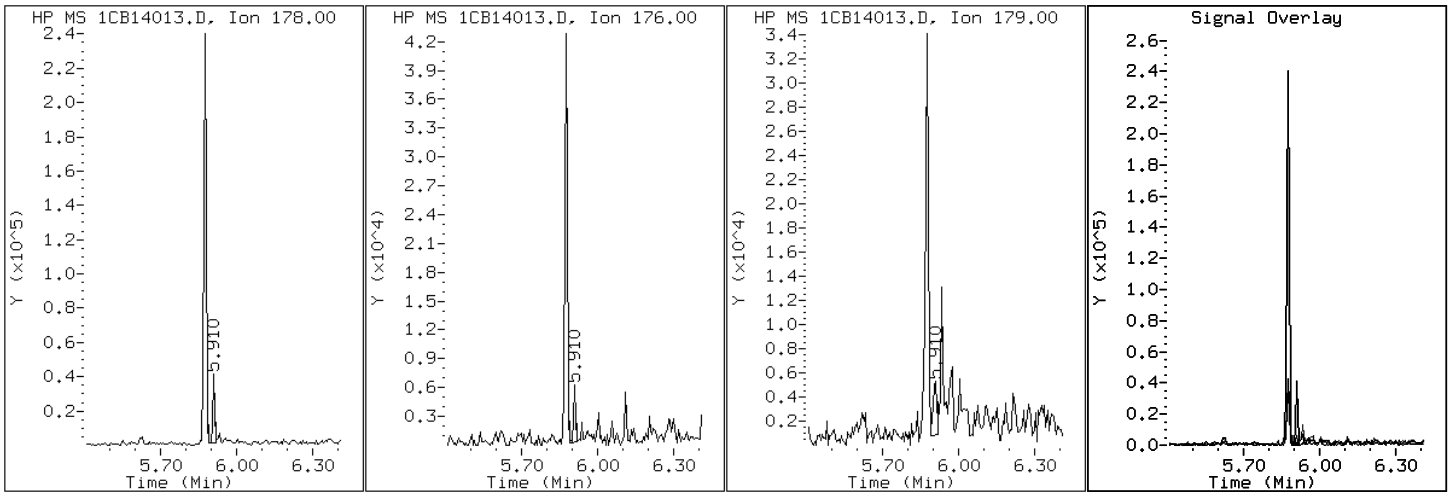
Client ID: CV0748G-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A

Operator: SCC

12 Anthracene



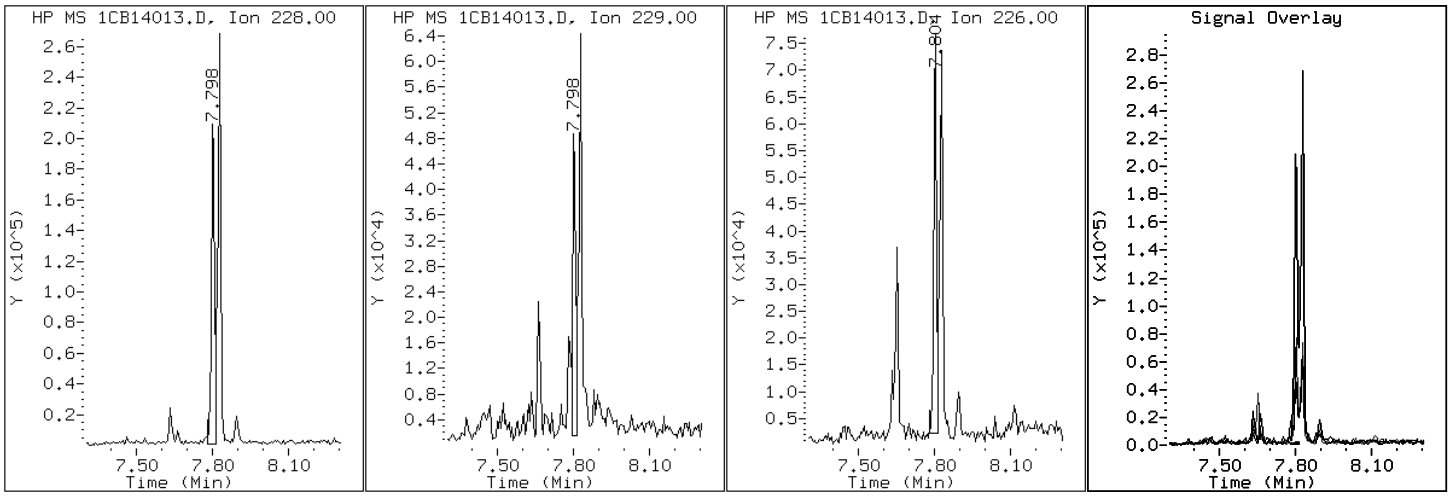
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

17 Benzo(a)anthracene



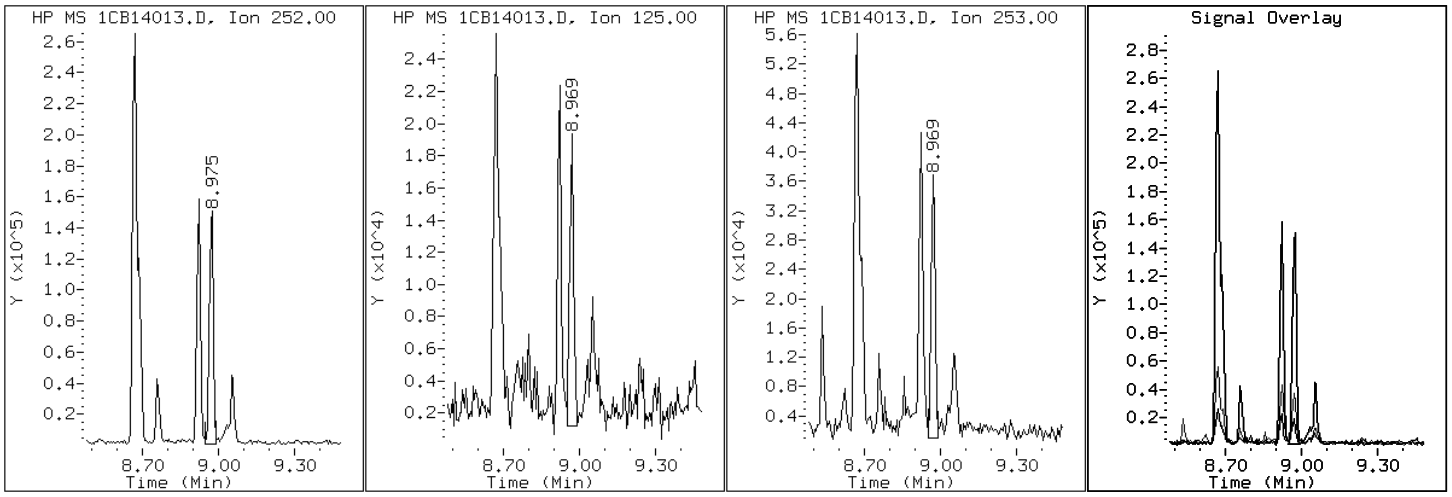
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

22 Benzo(a)pyrene



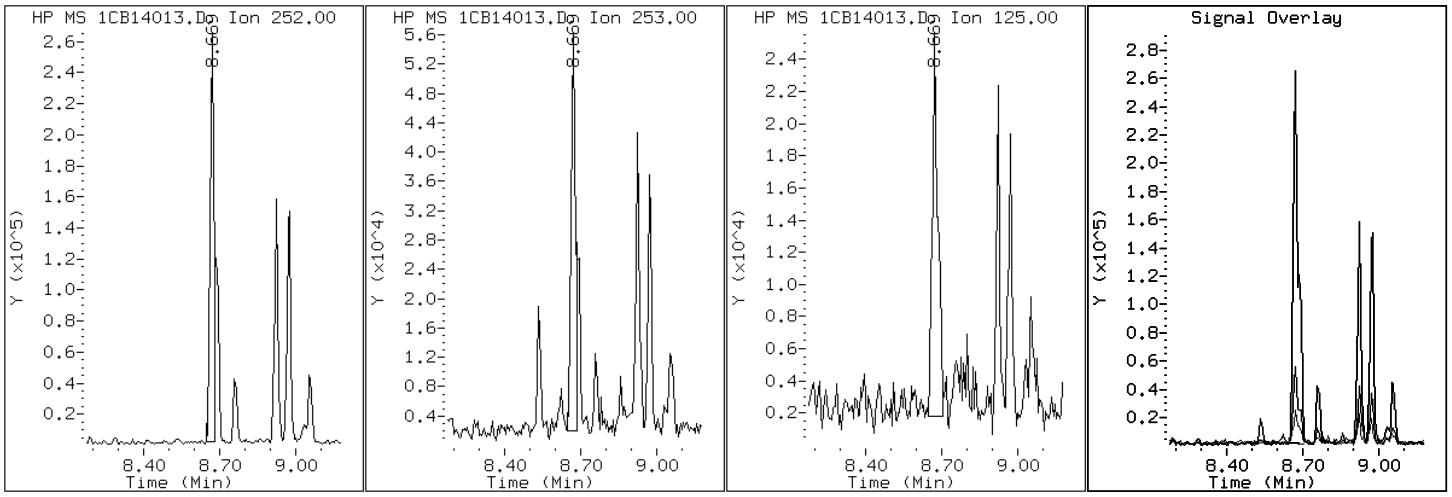
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

20 Benzo(b)fluoranthene



Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

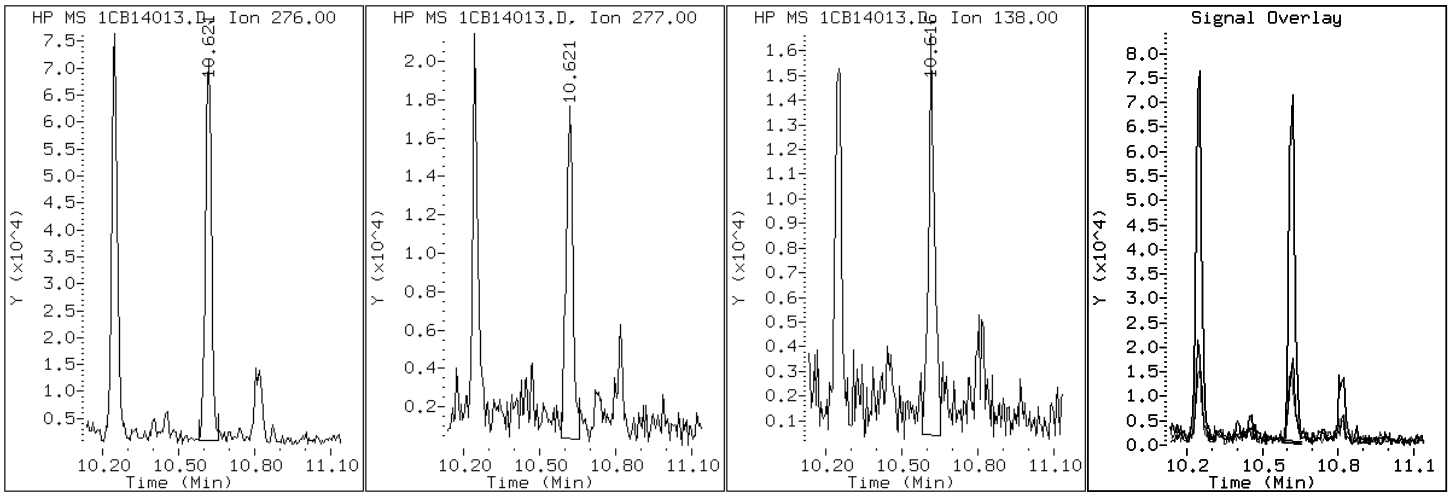
Client ID: CV0748G-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A

Operator: SCC

26 Benzo(g,h,i)perylene



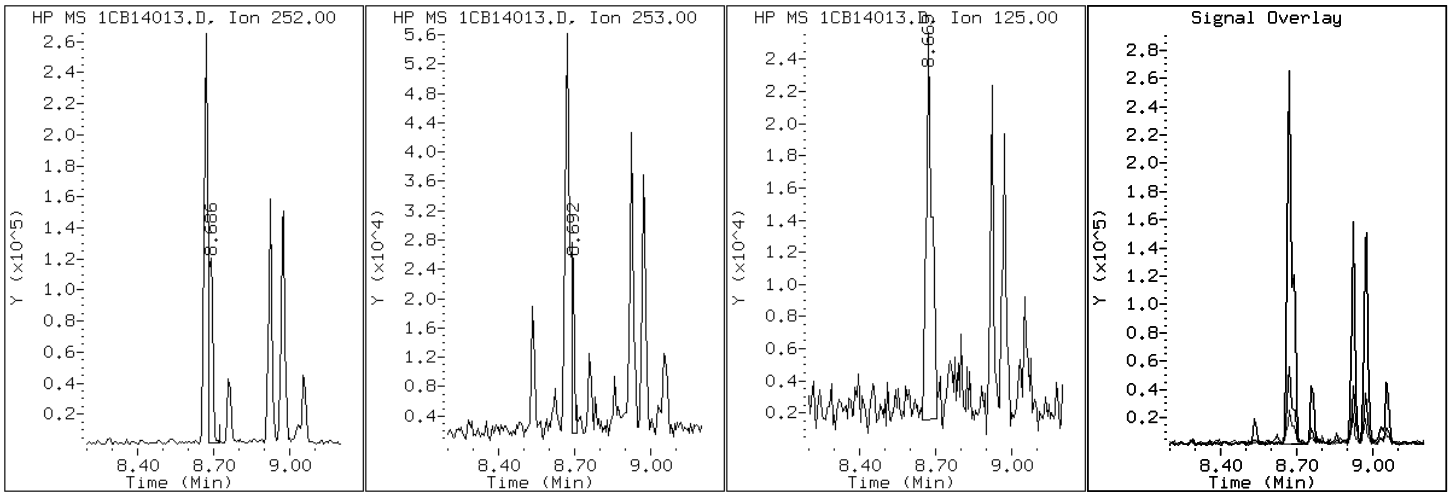
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

21 Benzo(k)fluoranthene



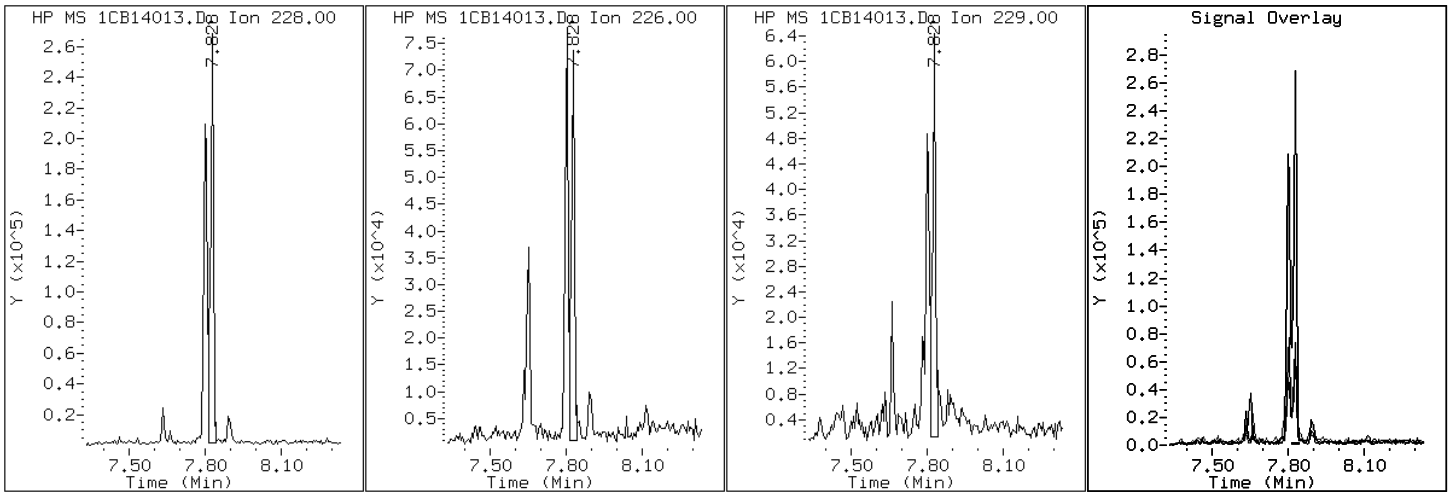
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

19 Chrysene



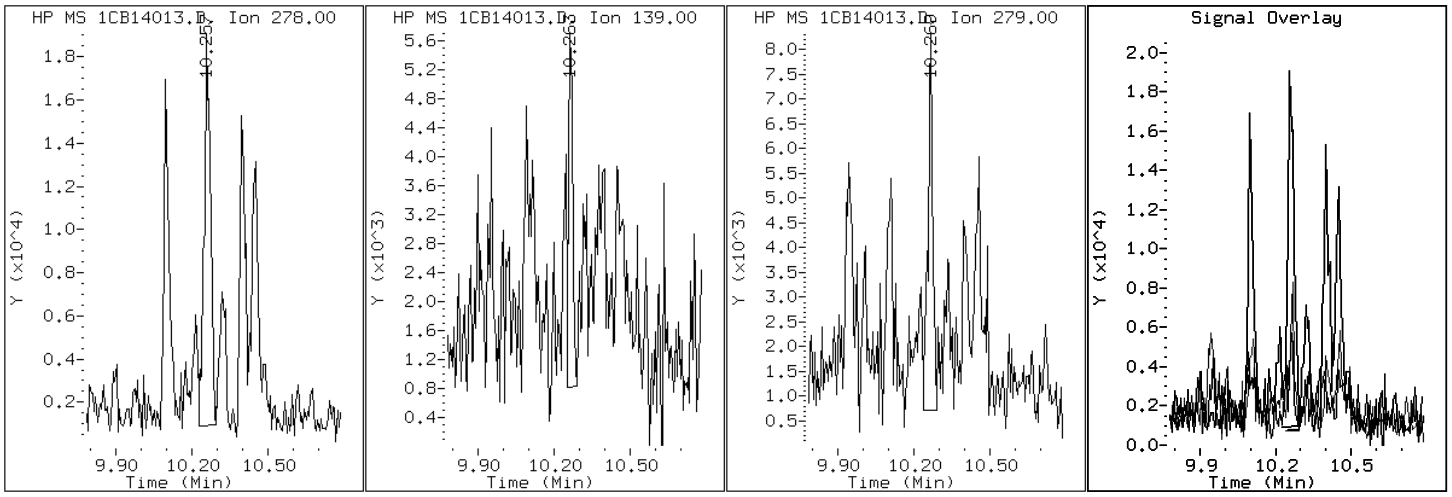
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

25 Dibenzo(a,h)anthracene



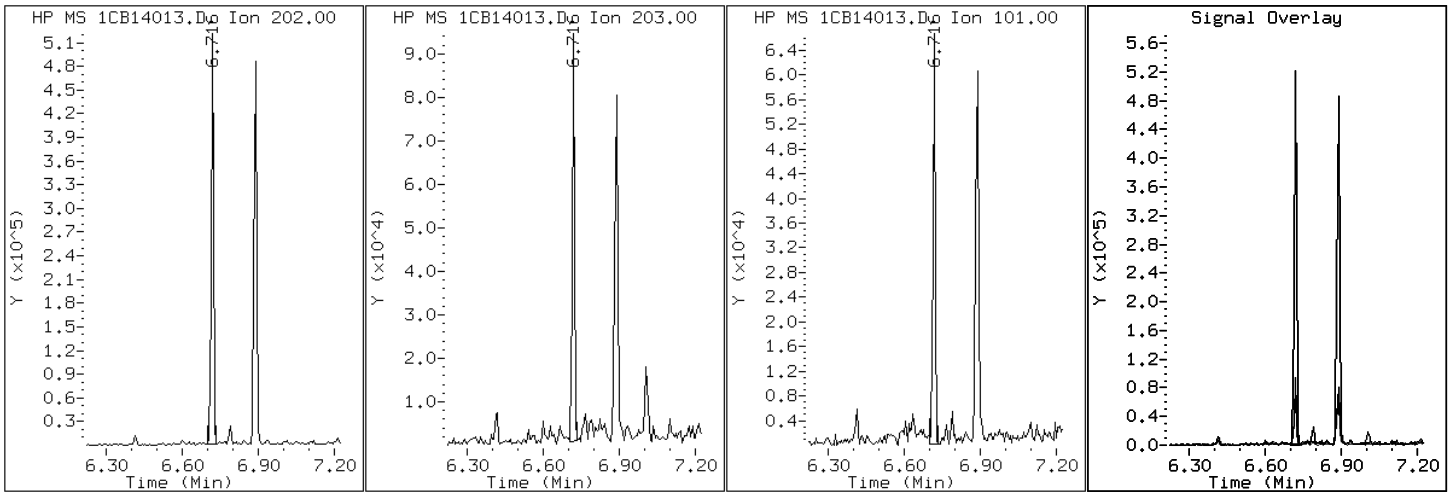
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

15 Fluoranthene



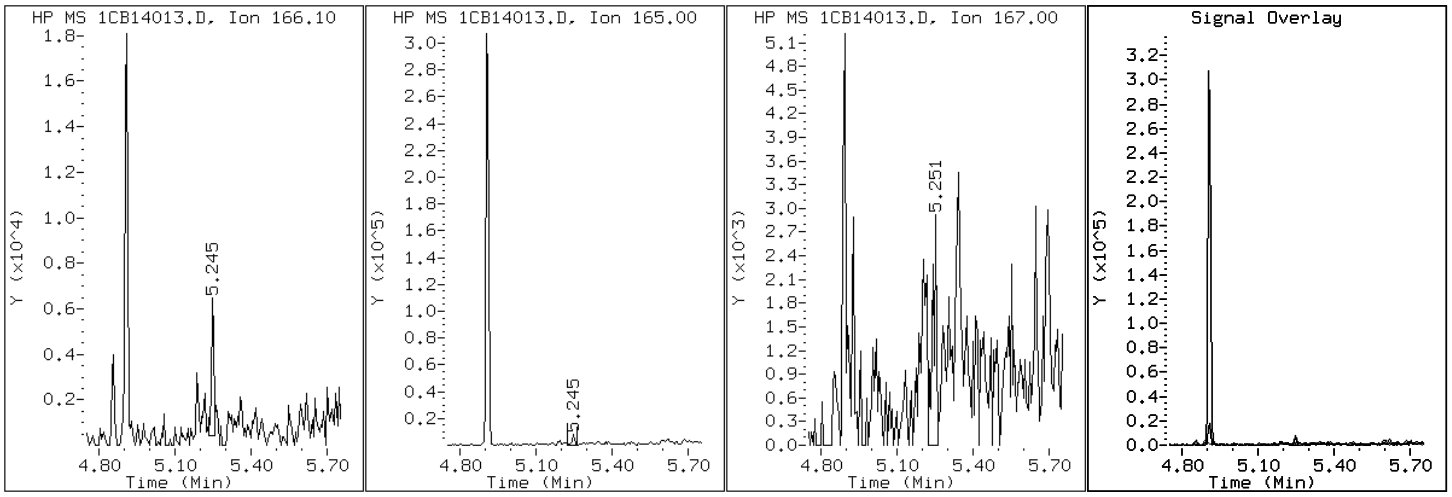
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

9 Fluorene



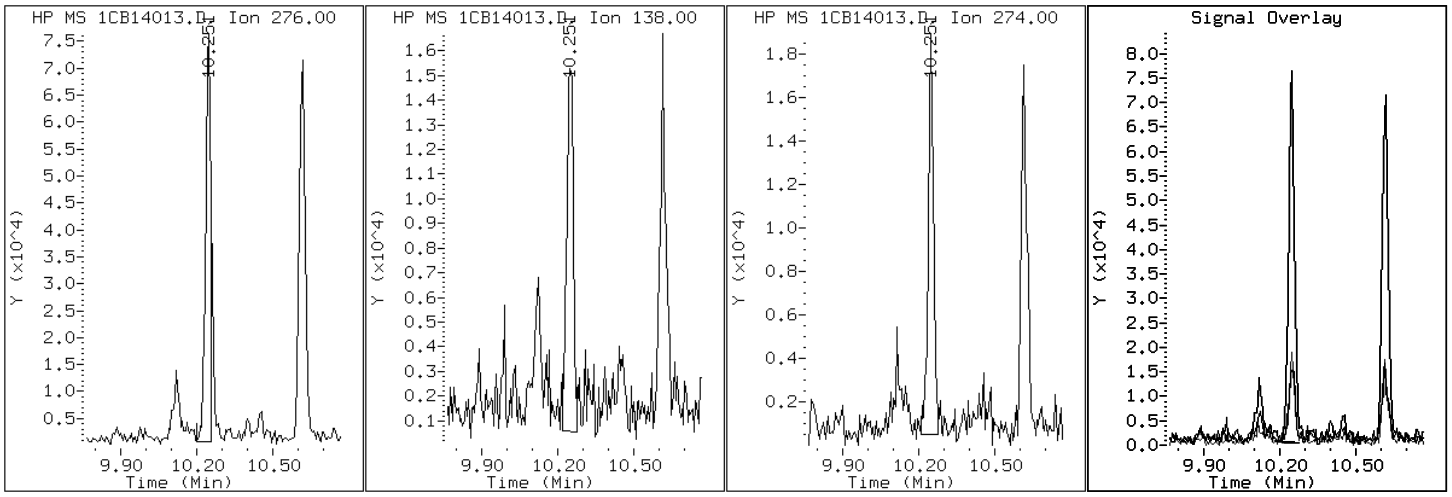
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

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



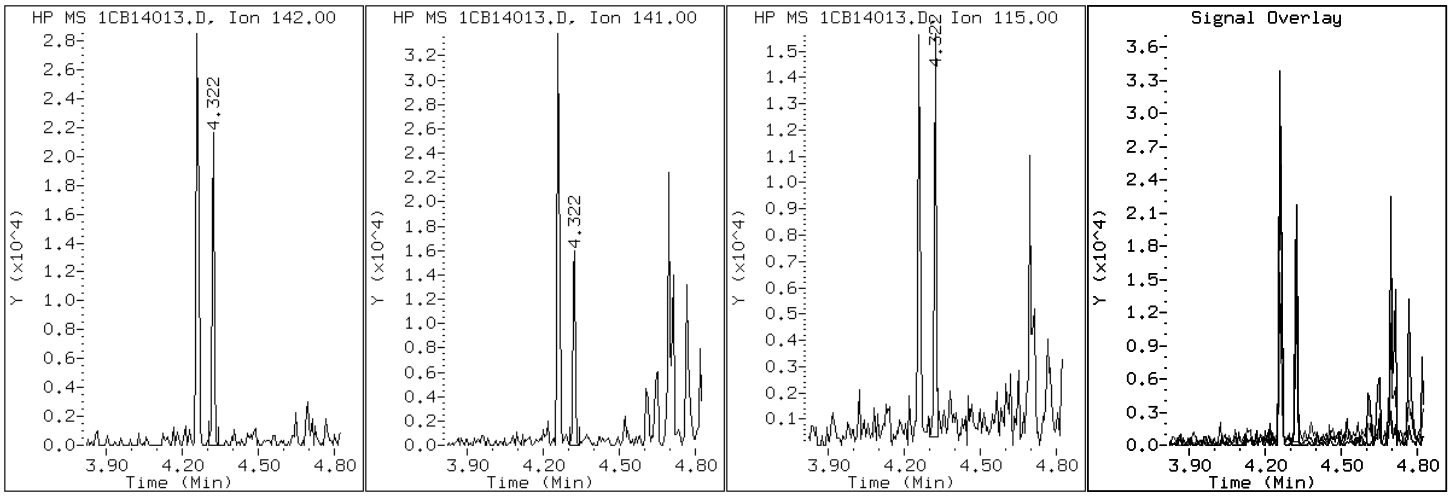
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

4 1-Methylnaphthalene



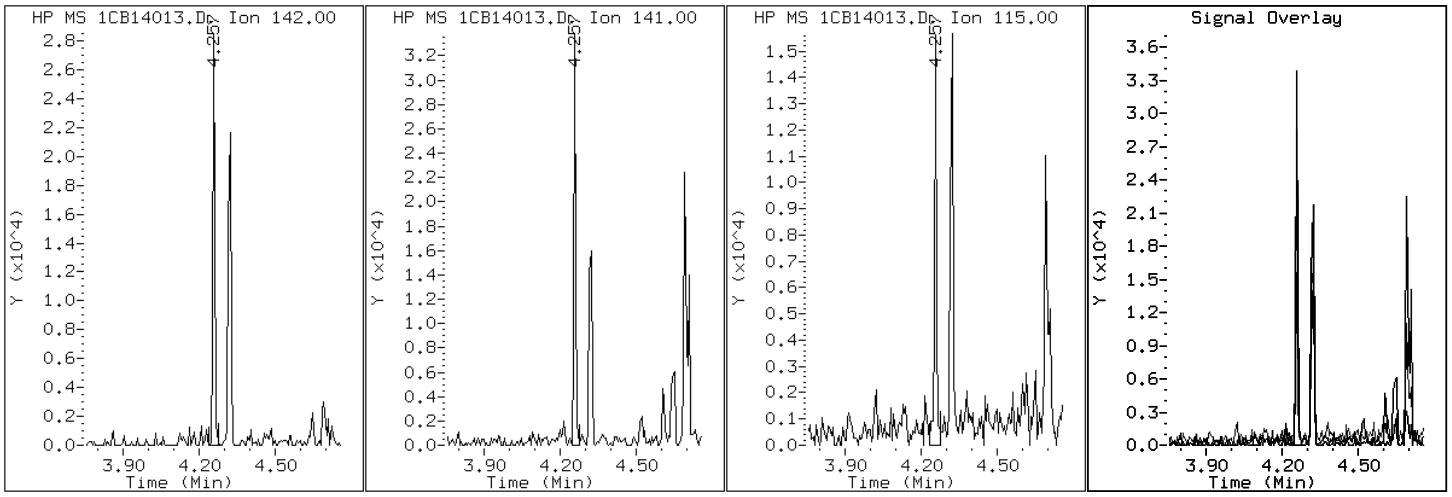
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

3 2-Methylnaphthalene



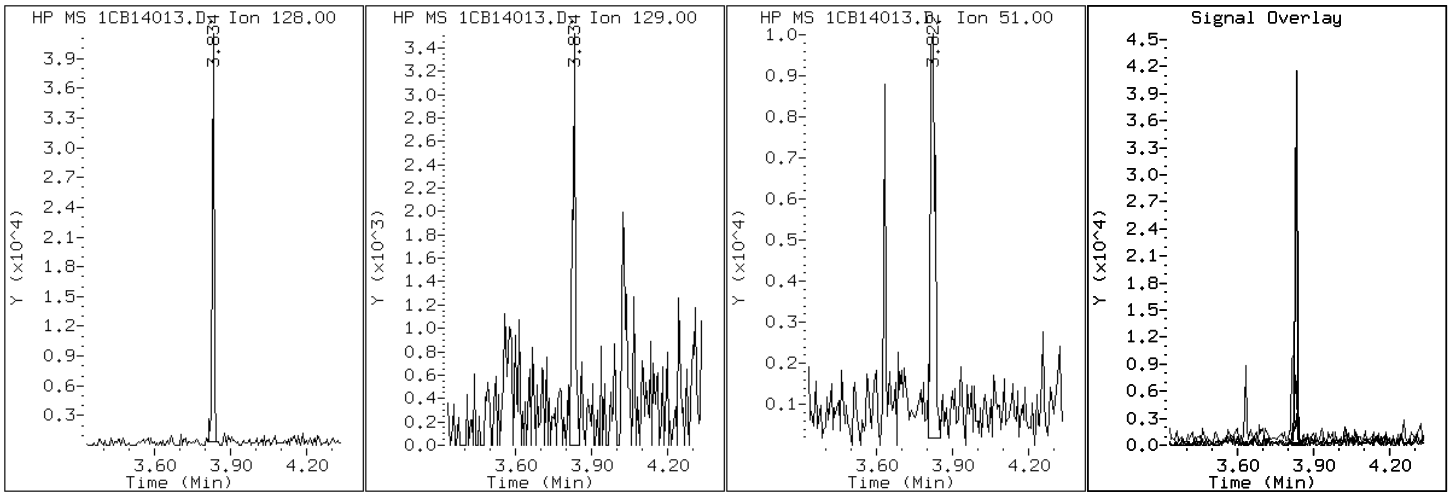
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

2 Naphthalene



Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

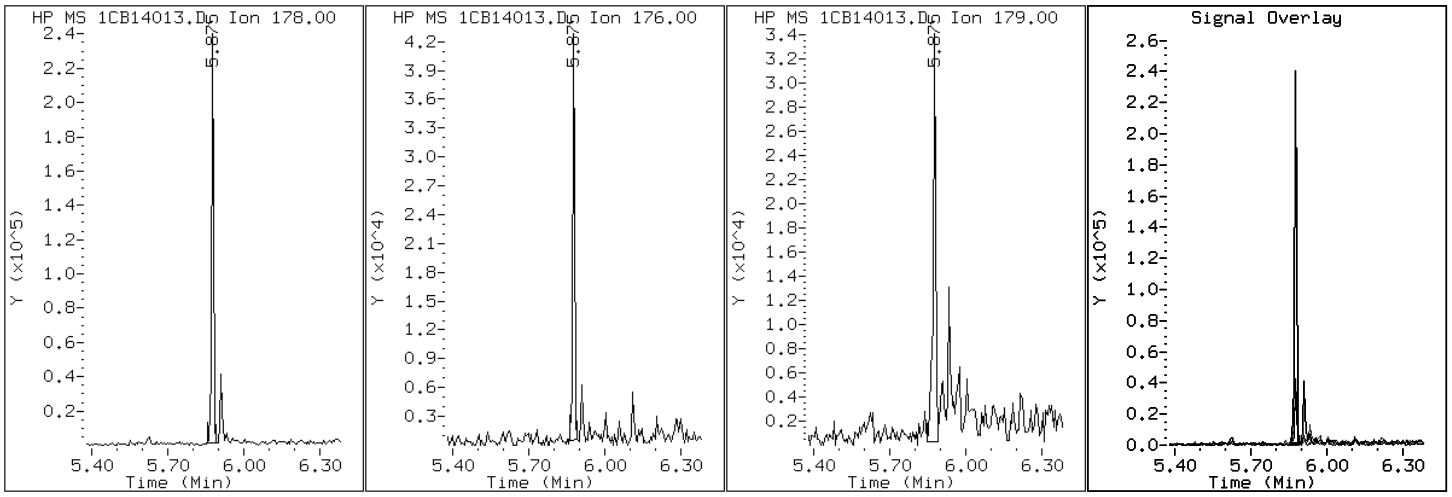
Client ID: CV0748G-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A

Operator: SCC

11 Phenanthrene



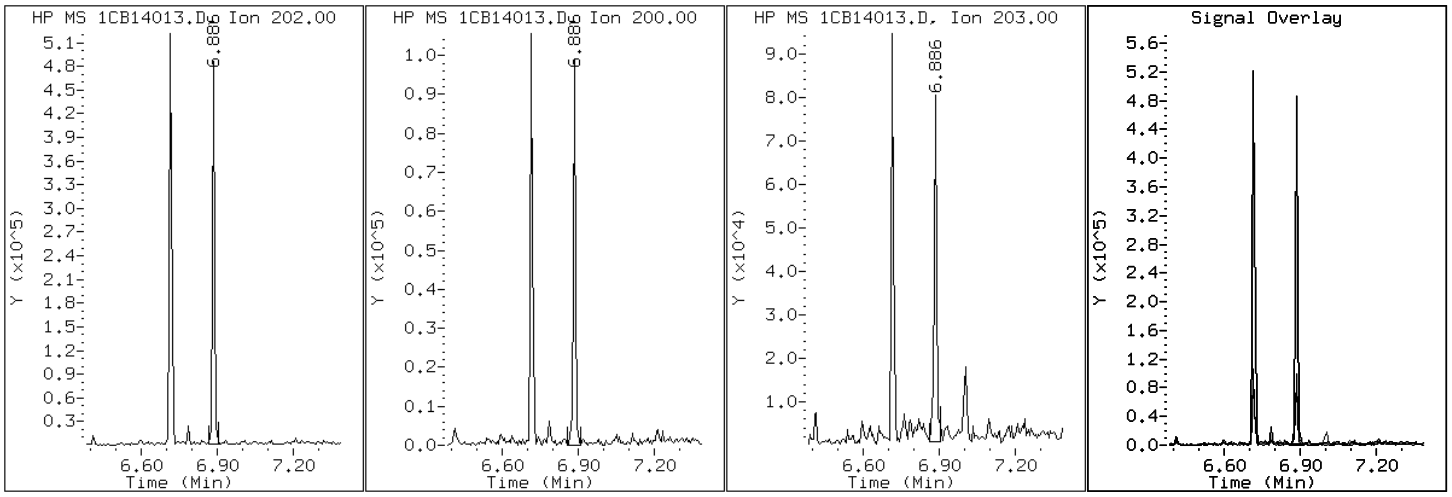
Data File: 1CB14013.D

Date: 14-FEB-2013 18:02

Client ID: CV0748G-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-19-A Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB14013.D
Inj. Date and Time: 14-FEB-2013 18:02
Instrument ID: BSMC5973.i
Client ID: CV0748G-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

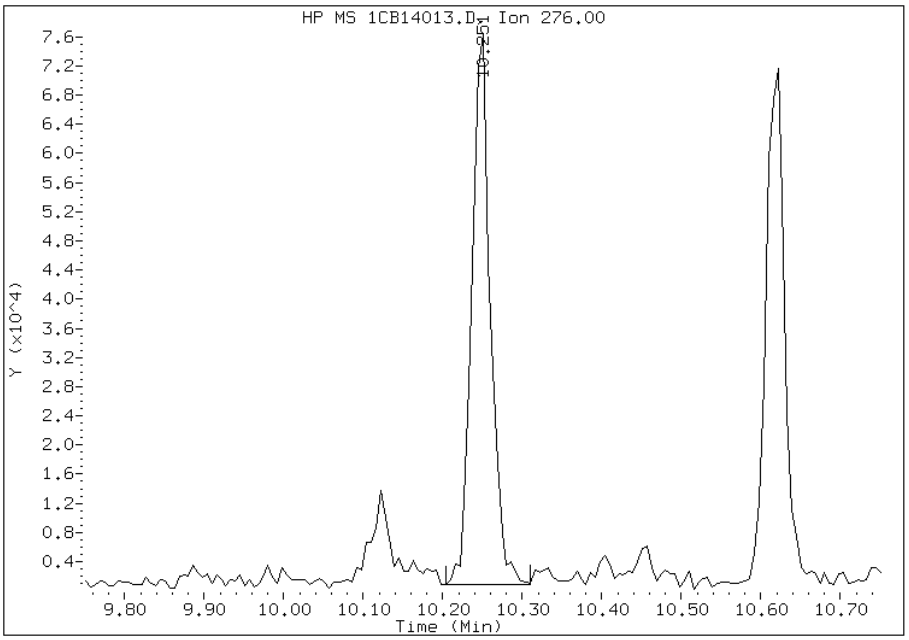
Processing Integration Results

RT: 10.25

Response: 122967

Amount: 2

Conc: 465



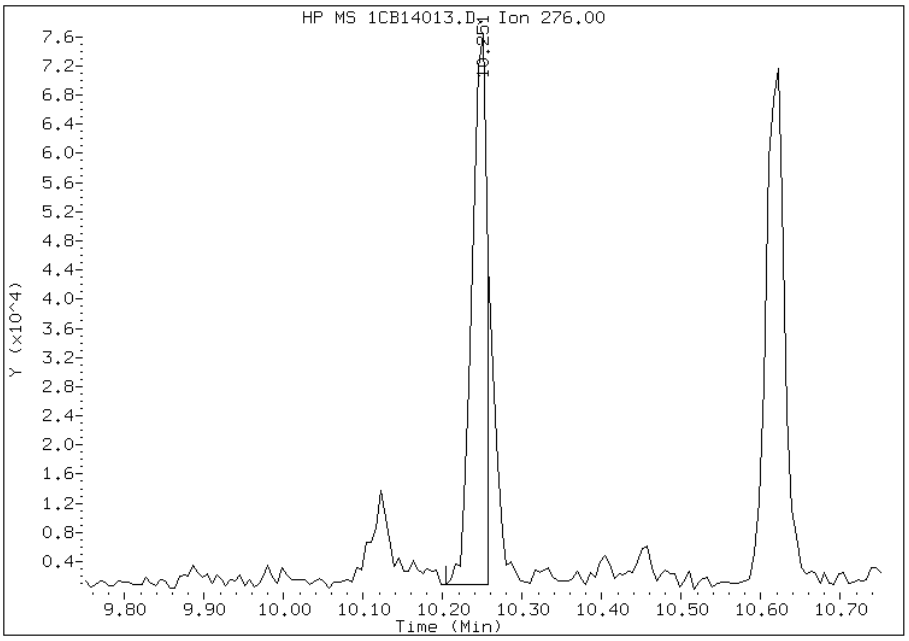
Manual Integration Results

RT: 10.25

Response: 100879

Amount: 1

Conc: 381



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0748H-CS | Lab Sample ID: 680-87218-20

Matrix: Solid | Lab File ID: 1CB14014.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 13:02

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.09(g) | Date Analyzed: 02/14/2013 18:21

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

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

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134493 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	430	U	430	87
208-96-8	Acenaphthylene	57	J	170	22
120-12-7	Anthracene	68		36	18
56-55-3	Benzo[a]anthracene	280		35	17
50-32-8	Benzo[a]pyrene	320		45	23
205-99-2	Benzo[b]fluoranthene	620		53	26
191-24-2	Benzo[g,h,i]perylene	260		87	19
207-08-9	Benzo[k]fluoranthene	210		35	16
218-01-9	Chrysene	480		39	19
53-70-3	Dibenz(a,h)anthracene	75	J	87	18
206-44-0	Fluoranthene	550		87	17
86-73-7	Fluorene	23	J	87	18
193-39-5	Indeno[1,2,3-cd]pyrene	210		87	31
90-12-0	1-Methylnaphthalene	100	J	170	19
91-57-6	2-Methylnaphthalene	120	J	170	31
91-20-3	Naphthalene	110	J	170	19
85-01-8	Phenanthrene	300	B	35	17
129-00-0	Pyrene	470		87	16

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

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14014.D
Lab Smp Id: 680-87218-A-20-A Client Smp ID: CV0748H-CS
Inj Date : 14-FEB-2013 18:21
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-A-20-A
Misc Info : 680-87218-A-20-A
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 15:12 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 14
Dil Factor: 4.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

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

Name	Value	Description
DF	4.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Ws	15.090	Weight Extracted
M	8.113	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.822	3.821	(1.000)	2511848	40.0000	
* 6 Acenaphthene-d10	164	4.904	4.909	(1.000)	1980623	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.862	(1.000)	3767666	40.0000	
$ 14 o-Terphenyl	230	6.110	6.115	(1.042)	93118	1.68677	486.6016
* 18 Chrysene-d12	240	7.810	7.815	(1.000)	4210080	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3946255	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	24419	0.36687	105.8346
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	18667	0.43131	124.4260
4 1-Methylnaphthalene	142	4.322	4.321	(1.131)	13972	0.35496	102.3998
5 Acenaphthylene	152	4.821	4.821	(0.983)	15509	0.19682	56.7791
9 Fluorene	166	5.245	5.251	(1.070)	4986	0.07860	22.6731
11 Phenanthrene	178	5.874	5.880	(1.002)	116522	1.03610	298.8950
12 Anthracene	178	5.910	5.909	(1.008)	23912	0.23599	68.0796
13 Carbazole	167	6.016	6.015	(1.026)	20859	0.23700	68.3698

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
15 Fluoranthene	202	6.715	6.721	(1.145)	209111	1.90289	548.9482
16 Pyrene	202	6.886	6.886	(0.882)	183769	1.63959	472.9897
17 Benzo(a)anthracene	228	7.804	7.803	(0.999)	114613	0.98720	284.7894
19 Chrysene	228	7.827	7.833	(1.002)	198750	1.65730	478.1004
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	207472	2.14443	618.6276
21 Benzo(k)fluoranthene	252	8.686	8.697	(0.962)	78858	0.73986	213.4344(Q)
22 Benzo(a)pyrene	252	8.968	8.980	(0.993)	103244	1.12146	323.5193
24 Indeno(1,2,3-cd)pyrene	276	10.251	10.268	(1.135)	65224	0.73763	212.7919(M)
25 Dibenzo(a,h)anthracene	278	10.256	10.286	(1.135)	21619	0.25927	74.7934
26 Benzo(g,h,i)perylene	276	10.621	10.639	(1.176)	81567	0.90811	261.9713

QC Flag Legend

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

Data File: 1CB14014.D

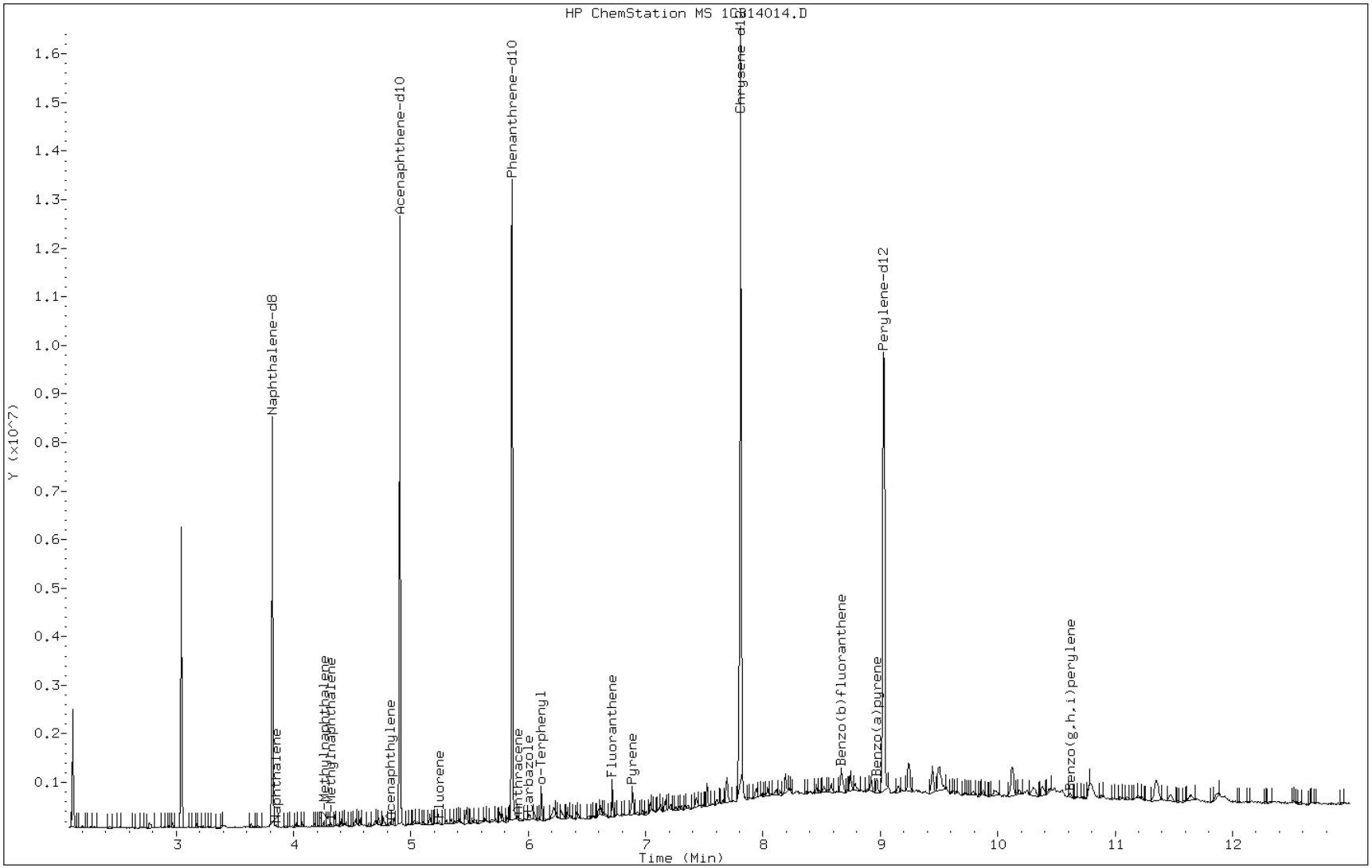
Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A

Operator: SCC



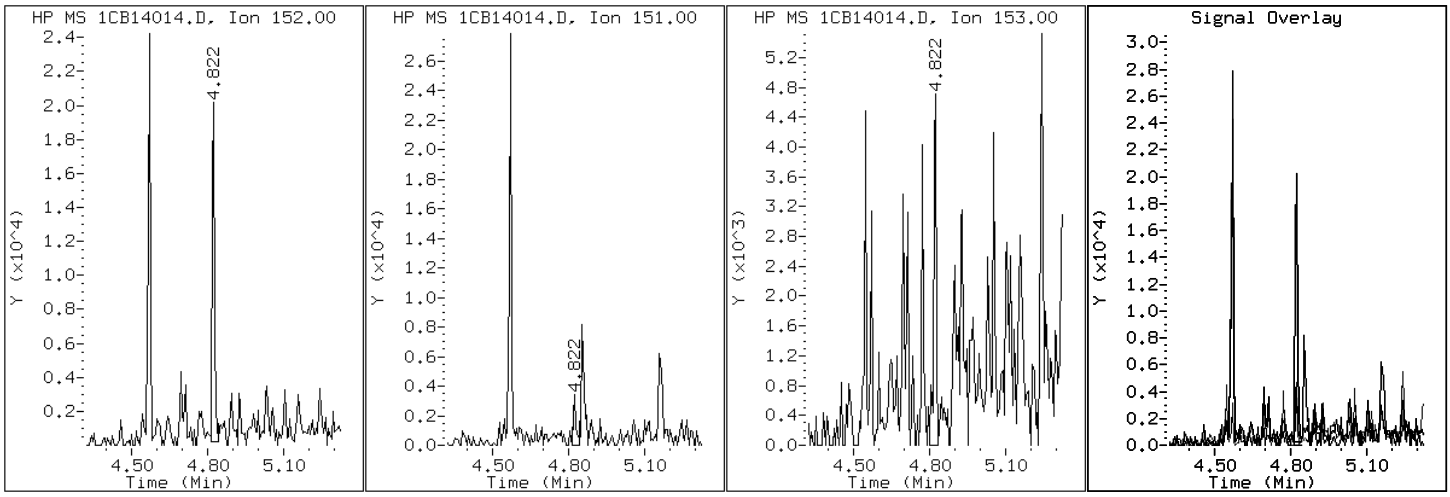
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

5 Acenaphthylene



Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

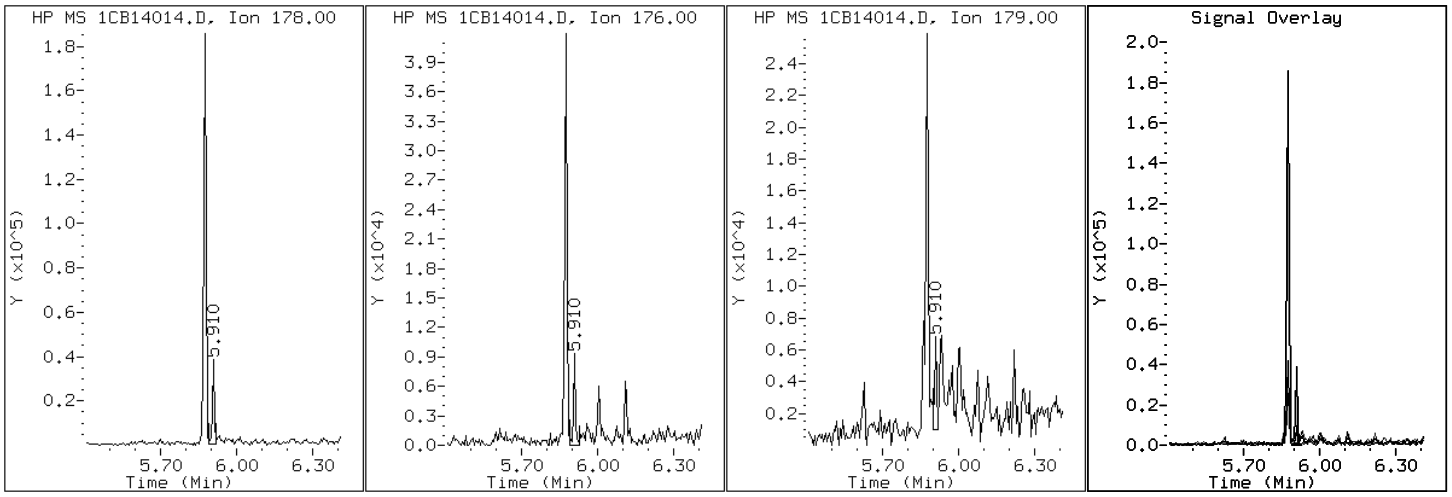
Client ID: CV0748H-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A

Operator: SCC

12 Anthracene



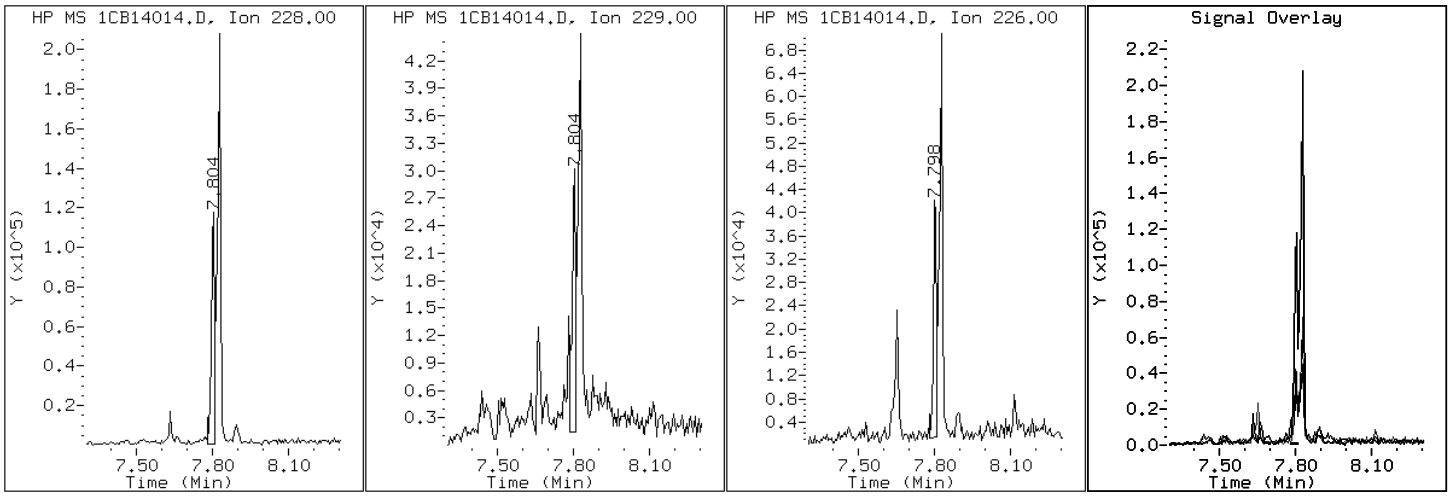
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

17 Benzo(a)anthracene



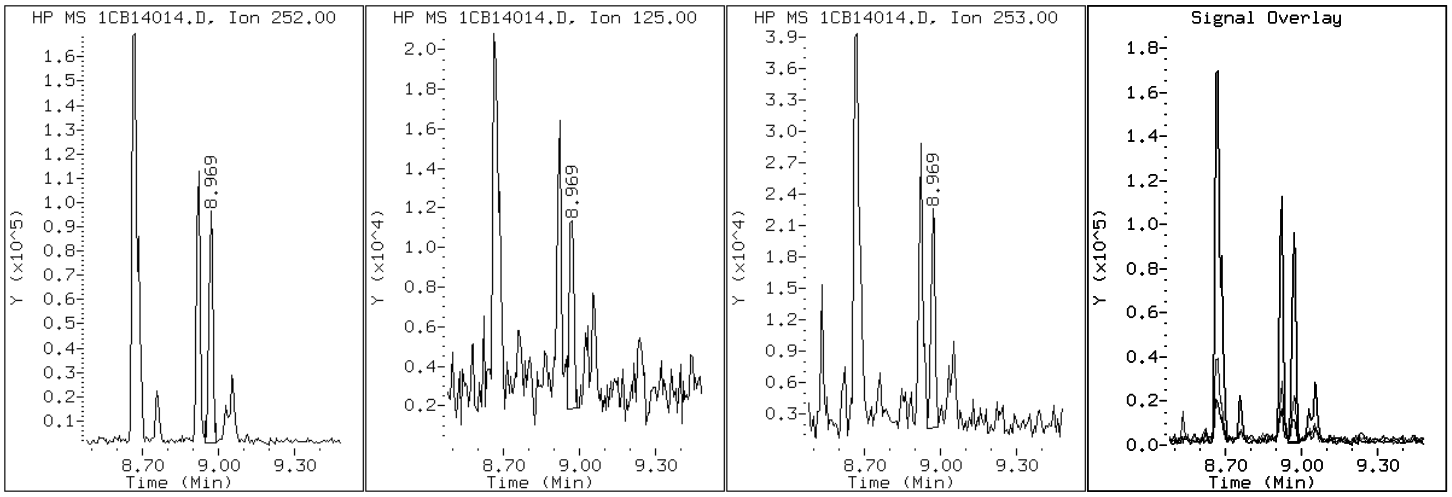
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

22 Benzo(a)pyrene



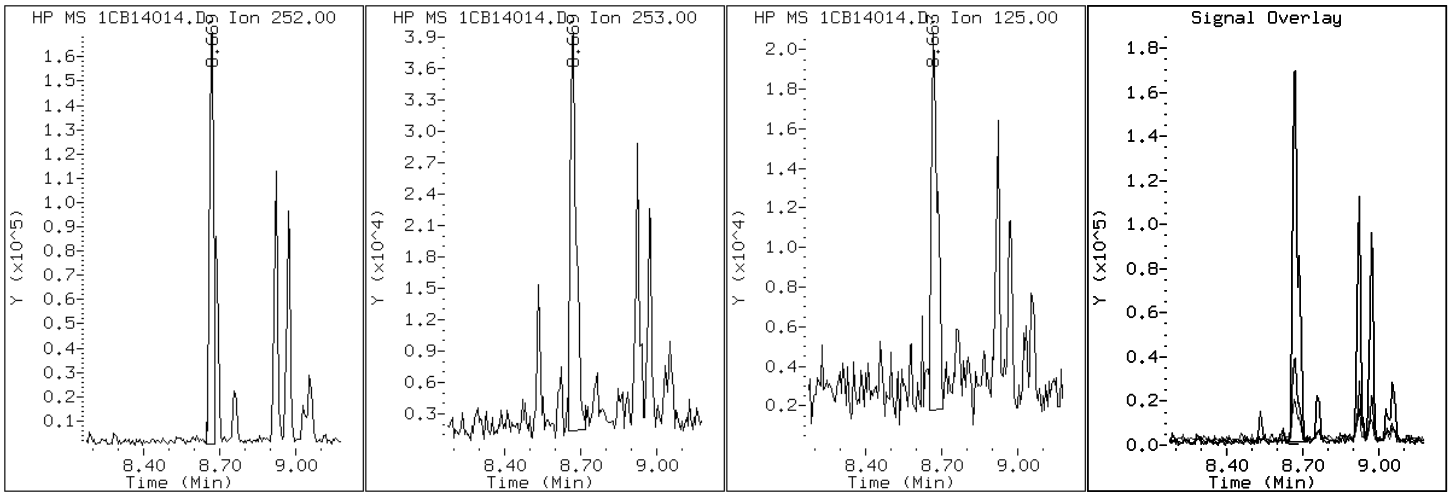
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

20 Benzo(b)fluoranthene



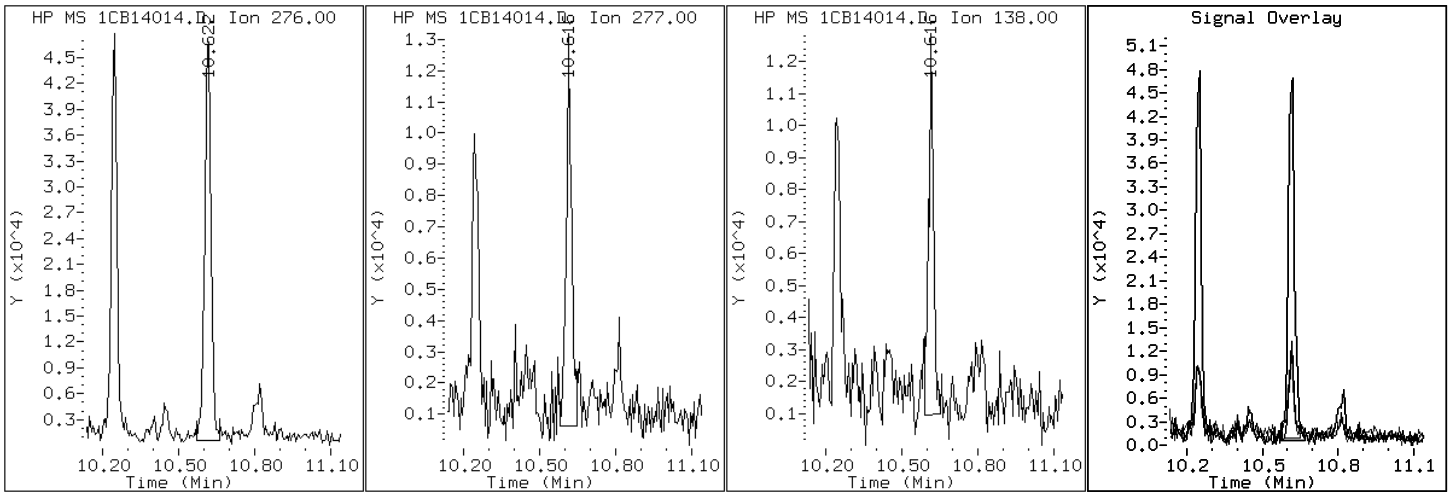
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

26 Benzo(g,h,i)perylene



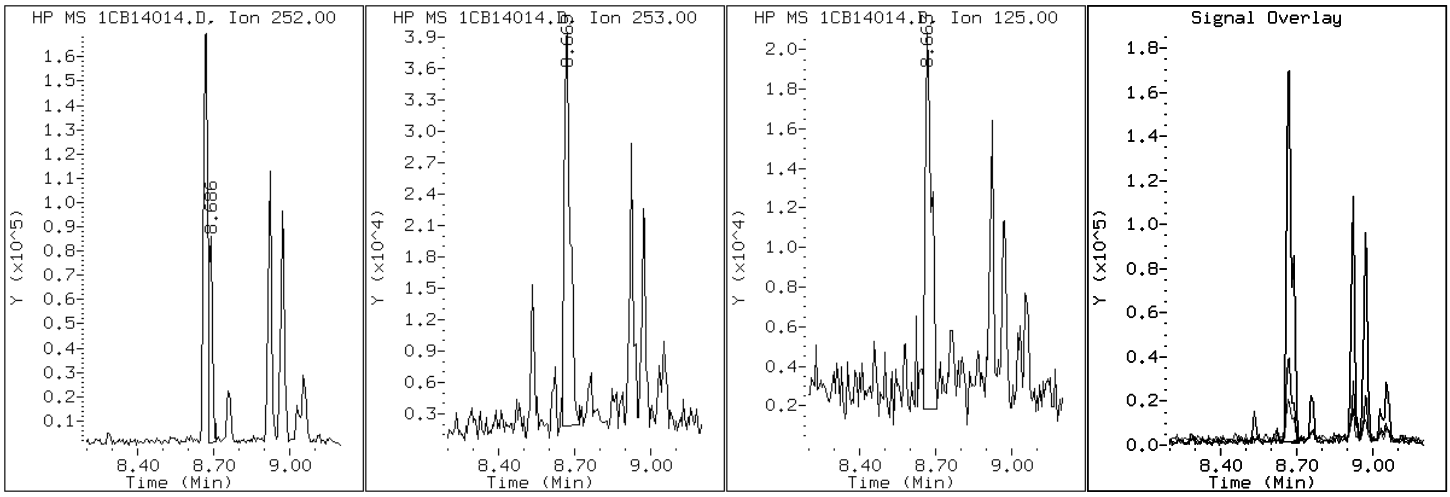
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

21 Benzo(k)fluoranthene



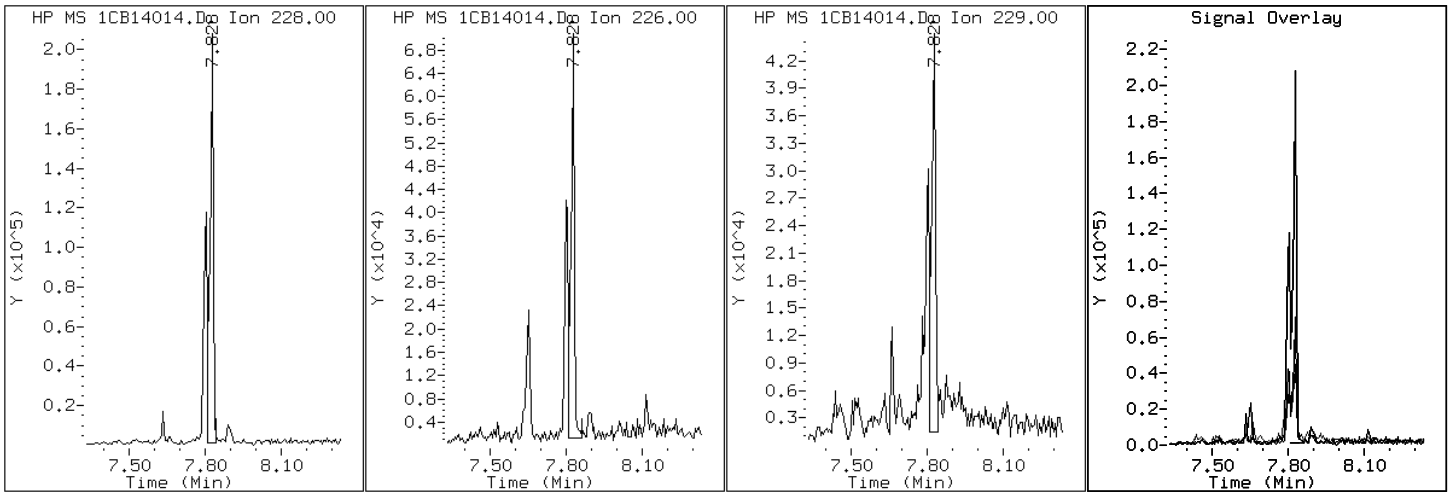
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

19 Chrysene



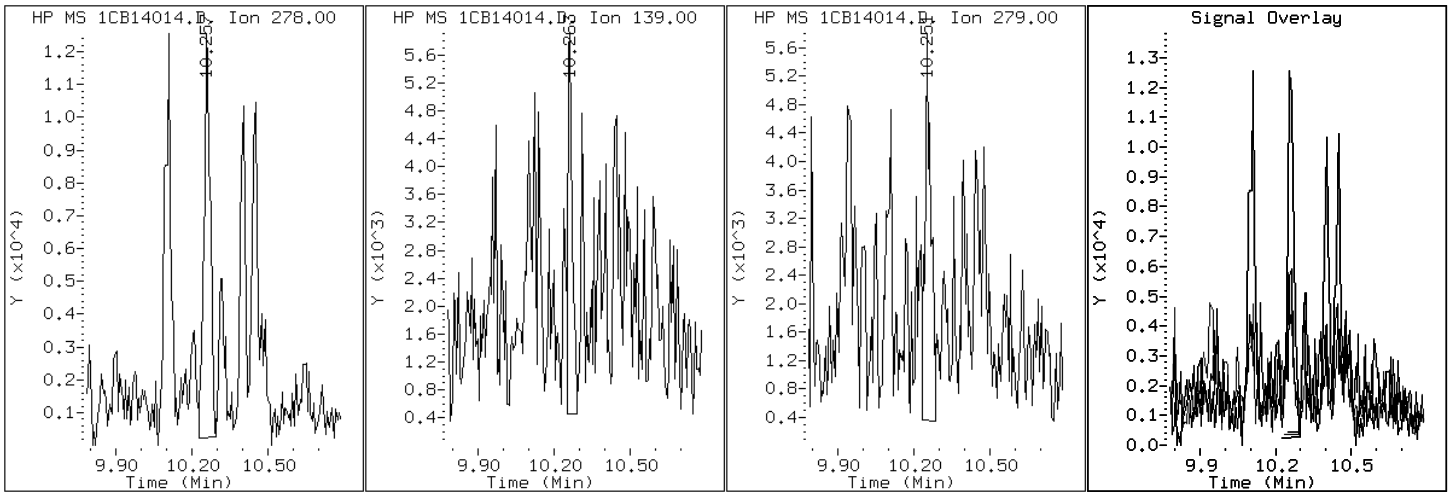
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

25 Dibenzo(a,h)anthracene



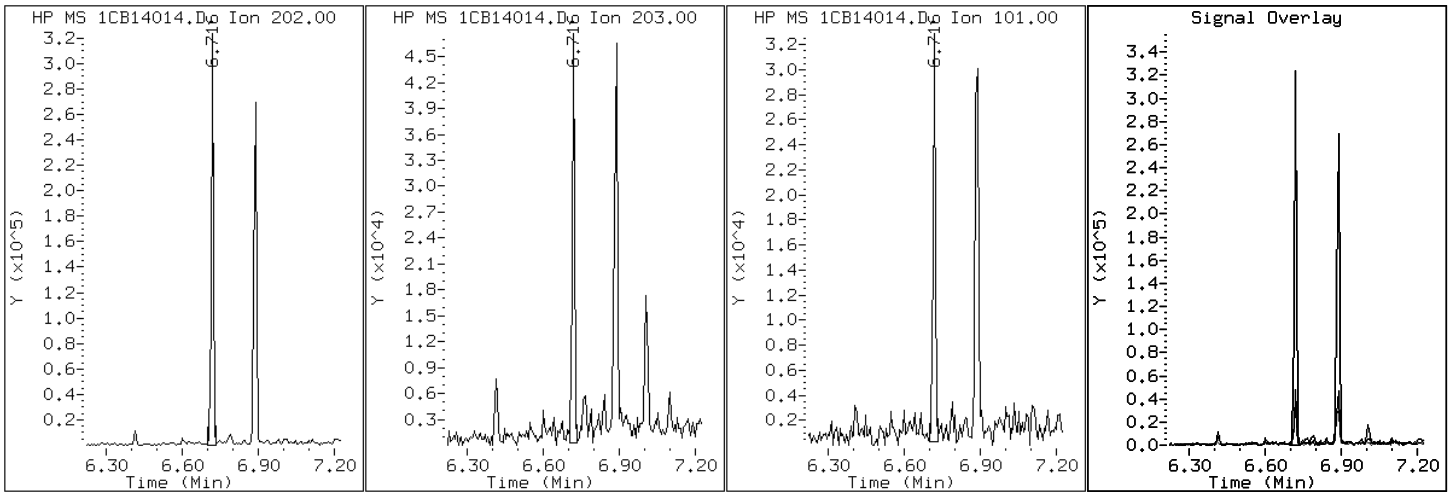
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

15 Fluoranthene



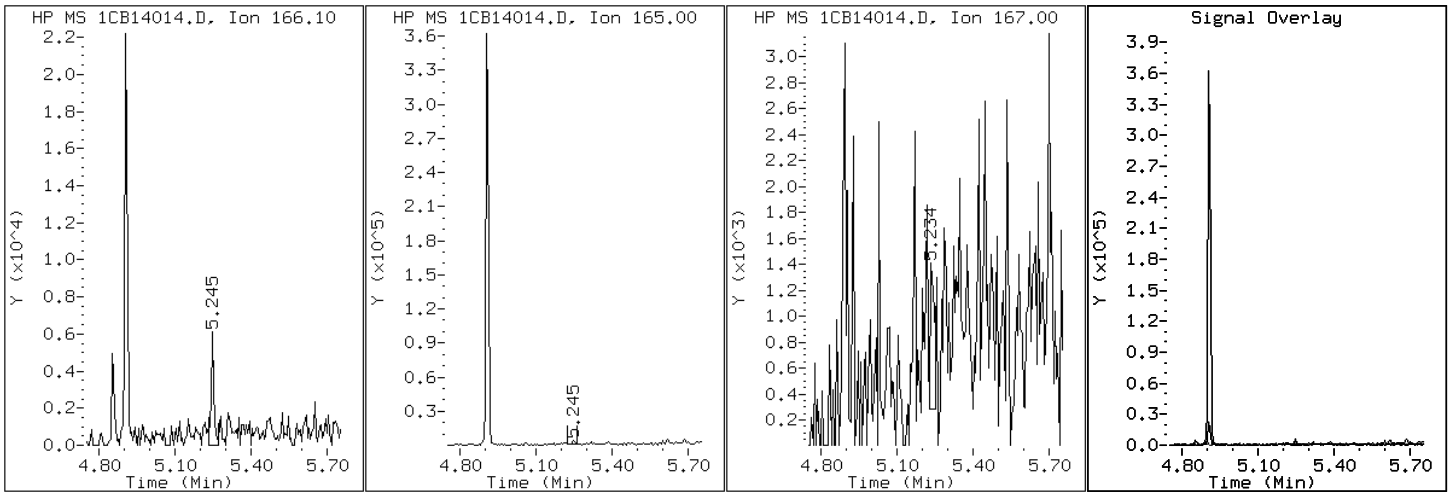
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

9 Fluorene



Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

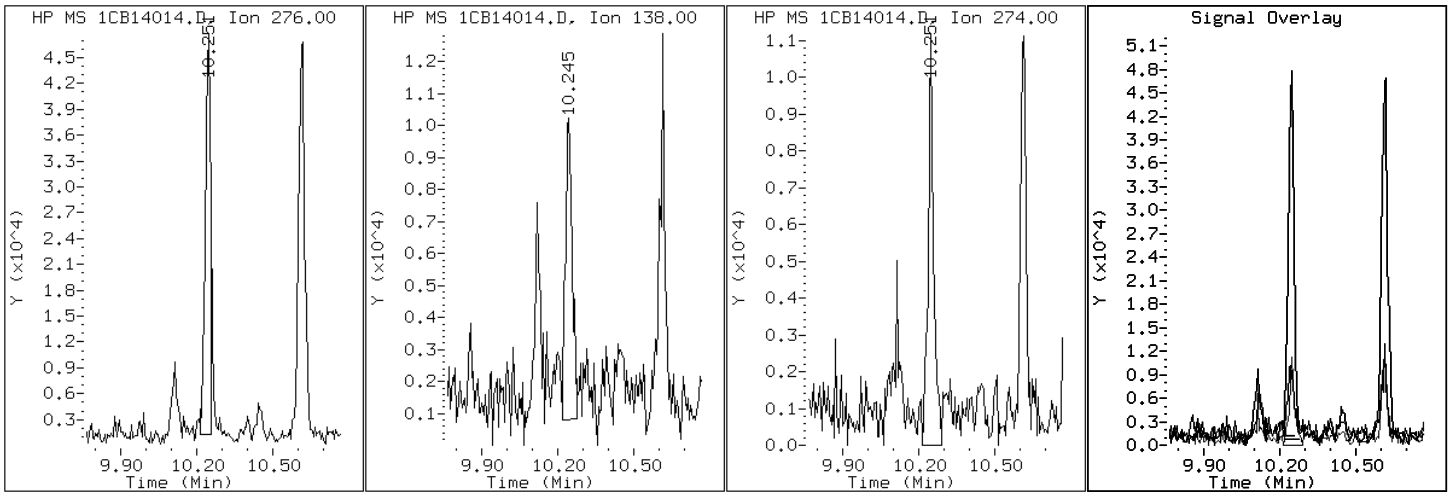
Client ID: CV0748H-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A

Operator: SCC

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



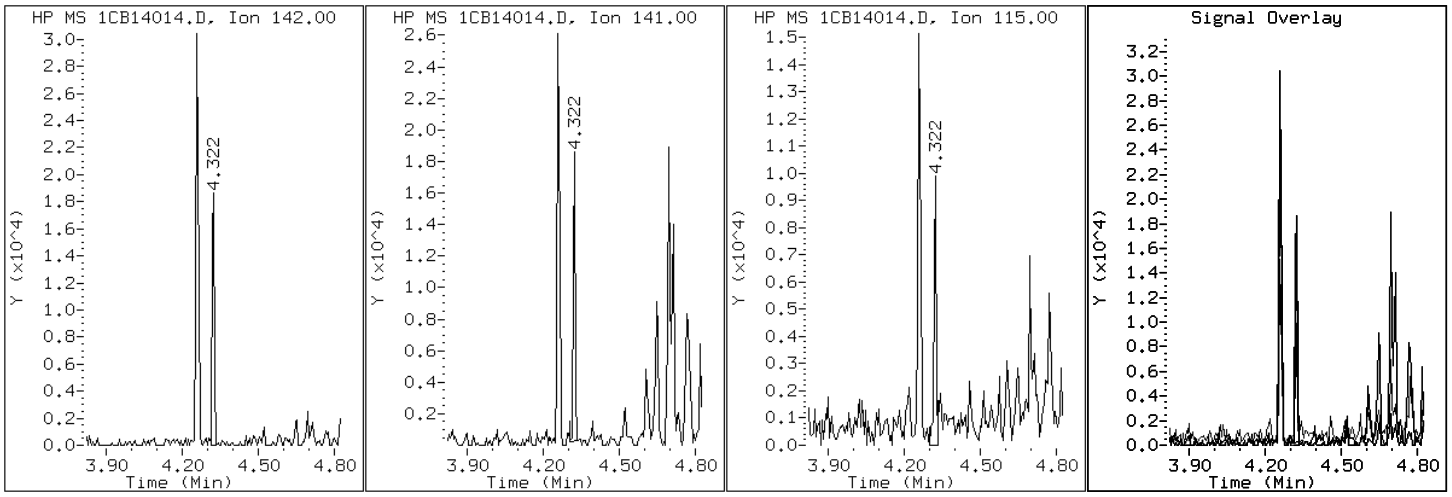
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

4 1-Methylnaphthalene



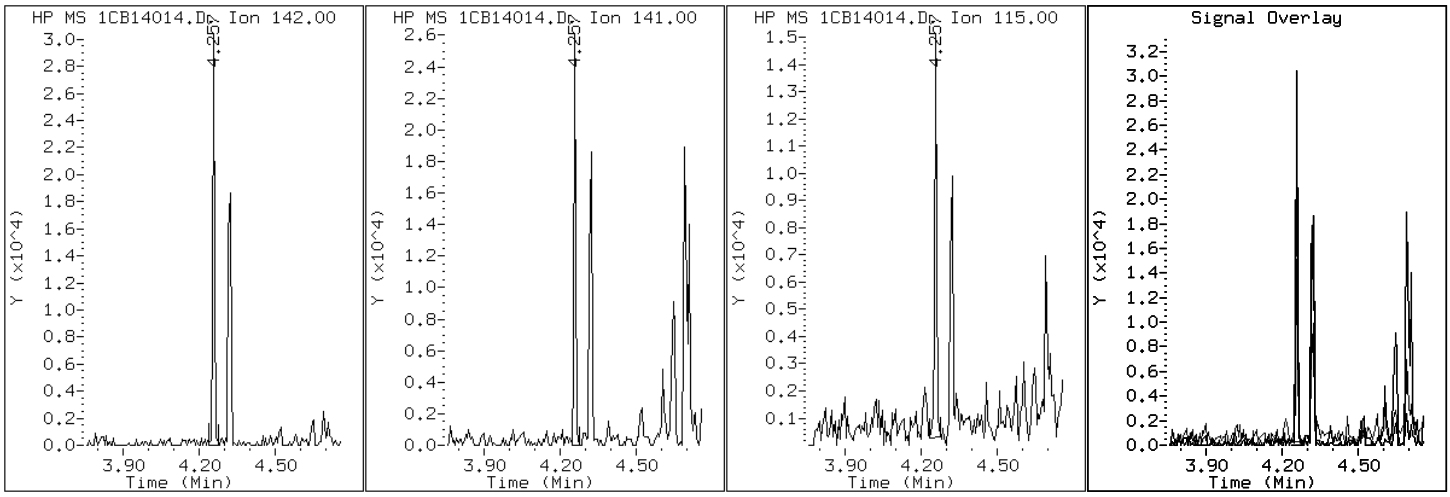
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

3 2-Methylnaphthalene



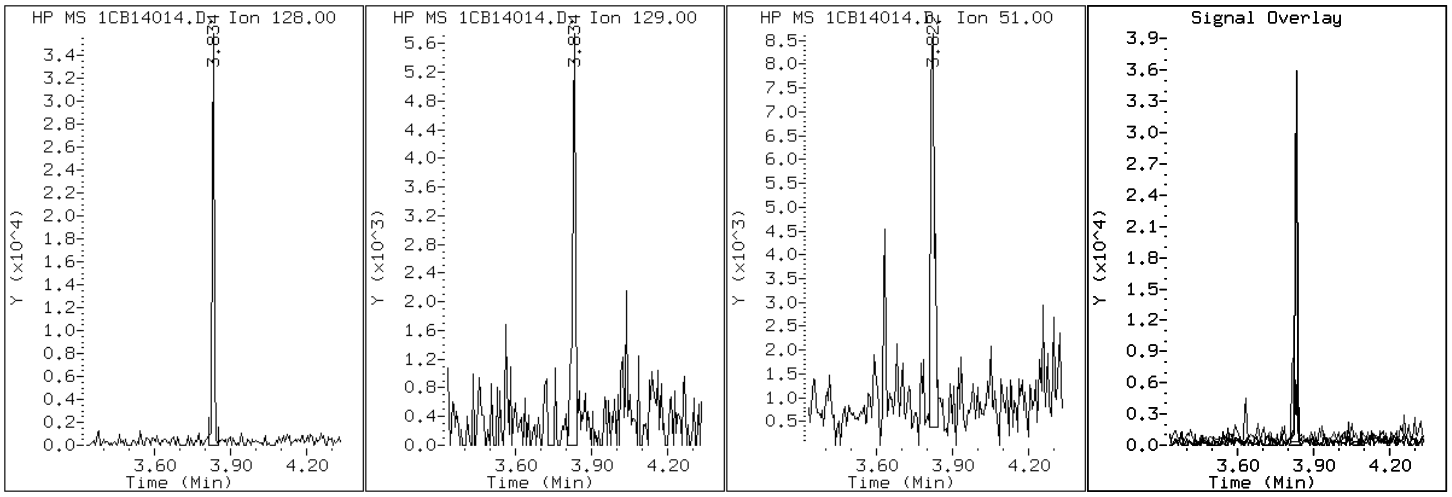
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

2 Naphthalene



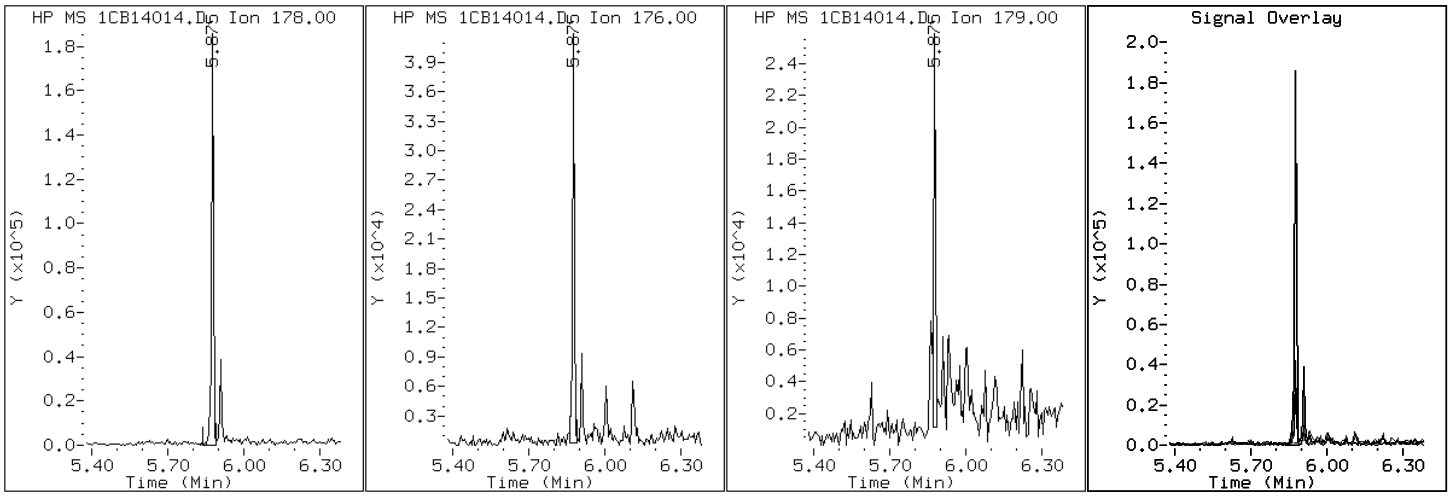
Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

Client ID: CV0748H-CS Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A Operator: SCC

11 Phenanthrene



Data File: 1CB14014.D

Date: 14-FEB-2013 18:21

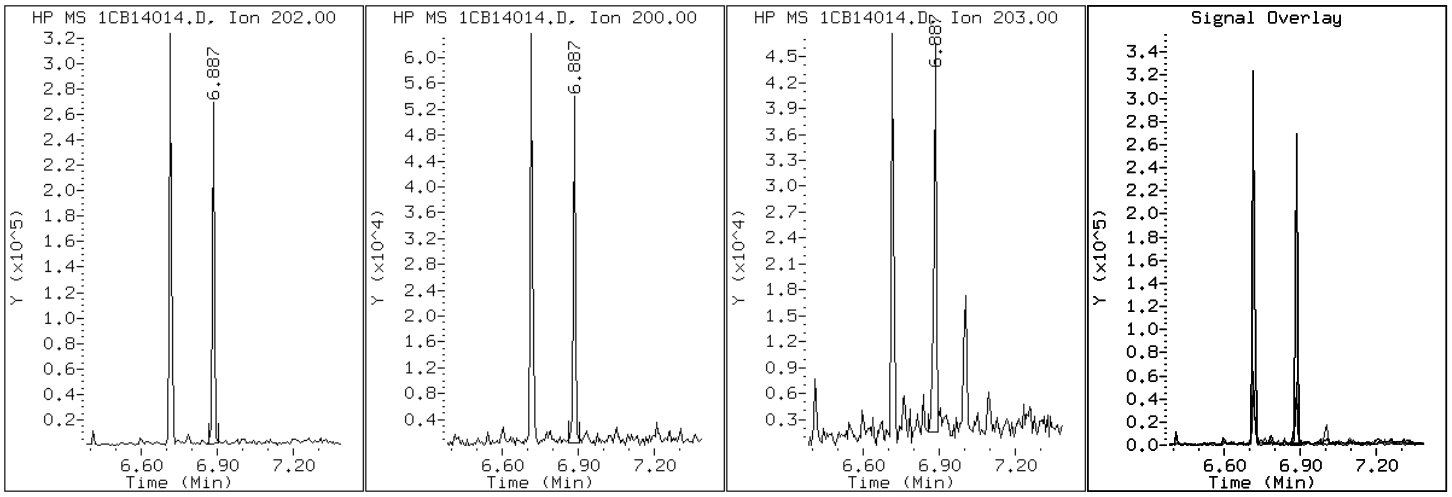
Client ID: CV0748H-CS

Instrument: BSMC5973.i

Sample Info: 680-87218-A-20-A

Operator: SCC

16 Pyrene



Manual Integration Report

Data File: 1CB14014.D
Inj. Date and Time: 14-FEB-2013 18:21
Instrument ID: BSMC5973.i
Client ID: CV0748H-CS
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/15/2013

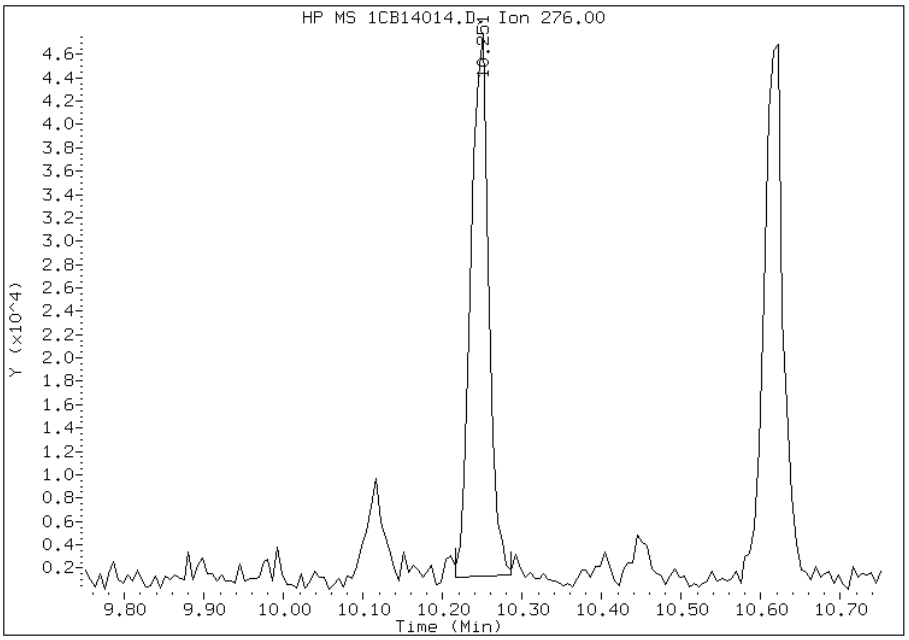
Processing Integration Results

RT: 10.25

Response: 72555

Amount: 1

Conc: 237



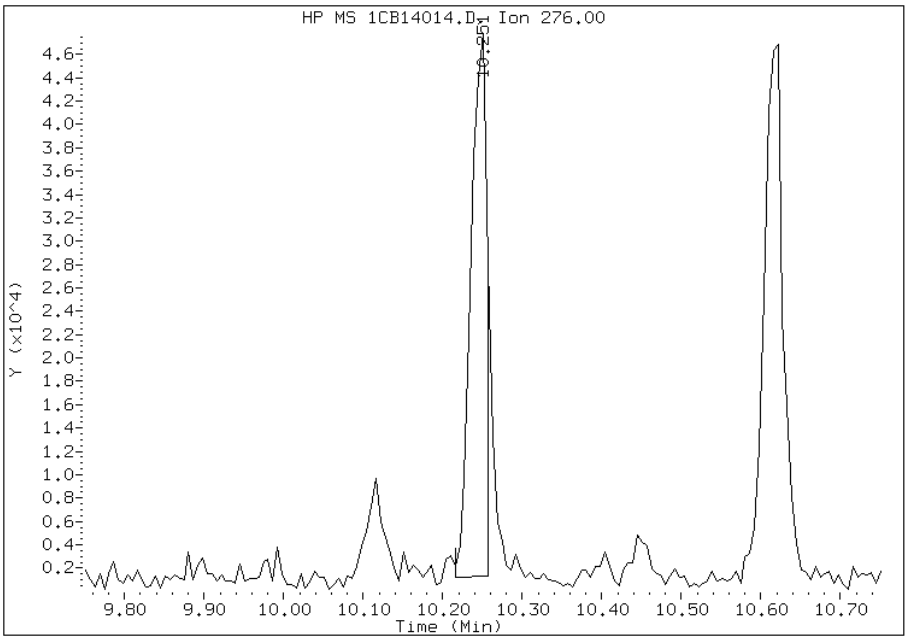
Manual Integration Results

RT: 10.25

Response: 65224

Amount: 1

Conc: 213



Manually Integrated By: cantins
Modification Date: 15-Feb-2013 11:05
Manual Integration Reason: Split Peak

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

Lab Name: TestAmerica Tampa Job No.: 680-87218-1 Analy Batch No.: 133227

SDG No.: 68087218-1

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.: 680-87218-1 Analy Batch No.: 133227

SDG No.: 68087218-1

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.: 680-87218-1 Analy Batch No.: 133227

SDG No.: 68087218-1

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.: 680-87218-1 Analy Batch No.: 133227

SDG No.: 68087218-1

Instrument ID: BSMC5973 GC Column: DB-5MS ID: 250(um) Heated Purge: (Y/N) N

Calibration Start Date: 01/07/2013 15:23 Calibration End Date: 01/07/2013 17:13 Calibration ID: 2667

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[a]pyrene	PRY	Ave	12619 2808161	73092 4467973	394642	891772	1856241	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	LinF	12184 2564602	41666 3772962	352250	744949	1706161	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	13428 2451088	67472 3909634	352888	785898	1627151	0.200 30.0	1.00 50.0	5.00	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	14123 2713188	68360 4151782	397056	865965	1745002	0.200 30.0	1.00 50.0	5.00	10.0	20.0
o-Terphenyl	PHN	Ave	7723 1447125	41244 2145891	209857	450297	943151	0.200 30.0	1.00 50.0	5.00	10.0	20.0

Curve Type Legend:
Ave = Average ISTD
LinF = Linear ISTD forced zero

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07013.D
Lab Smp Id: IC-1489894
Inj Date : 07-JAN-2013 15:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489894
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 13 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2040281	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1520300	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2884412	40.0000	
$ 14 o-Terphenyl	230	6.162	6.162	(1.042)	7723	0.20000	0.1827
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3399562	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3482211	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	11168	0.20000	0.2065(Q)
3 2-Methylnaphthalene	142	4.304	4.304	(1.113)	7484	0.20000	0.2128
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	5934	0.20000	0.1855
5 Acenaphthylene	152	4.868	4.868	(0.982)	13060	0.20000	0.2159
7 Acenaphthene	154	4.974	4.974	(1.004)	8658	0.20000	0.2282
9 Fluorene	166	5.298	5.298	(1.069)	10249	0.20000	0.2104
11 Phenanthrene	178	5.927	5.927	(1.002)	22944	0.20000	0.2664
12 Anthracene	178	5.962	5.962	(1.008)	14612	0.20000	0.1883
13 Carbazole	167	6.074	6.074	(1.027)	12845	0.20000	0.1906
15 Fluoranthene	202	6.774	6.774	(1.145)	14132	0.20000	0.1679
16 Pyrene	202	6.945	6.945	(0.883)	13699	0.20000	0.1513
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	24935	0.20000	0.2659
19 Chrysene	228	7.886	7.886	(1.002)	20495	0.20000	0.2116
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	15170	0.20000	0.1776
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	16108	0.20000	0.1712(M)
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	12619	0.20000	0.1553
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	12184	0.20000	0.1764(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	13428	0.20000	0.1824(M)
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	14123	0.20000	0.1781(M)

QC Flag Legend

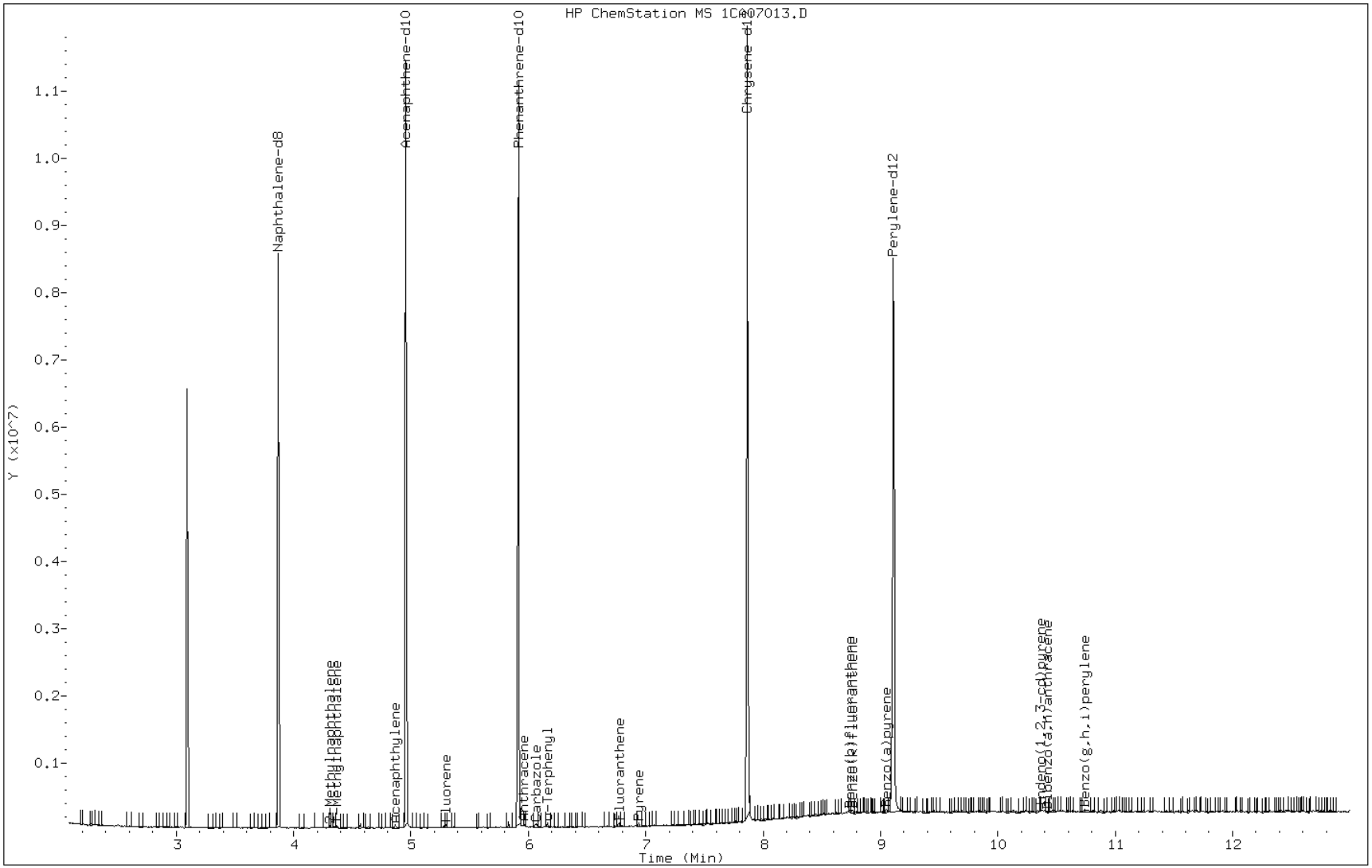
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07013.D

Date: 07-JAN-2013 15:23

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489894 Operator: SCC



Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 21 Benzo(k)fluoranthene
CAS #: 207-08-9
Report Date: 01/08/2013

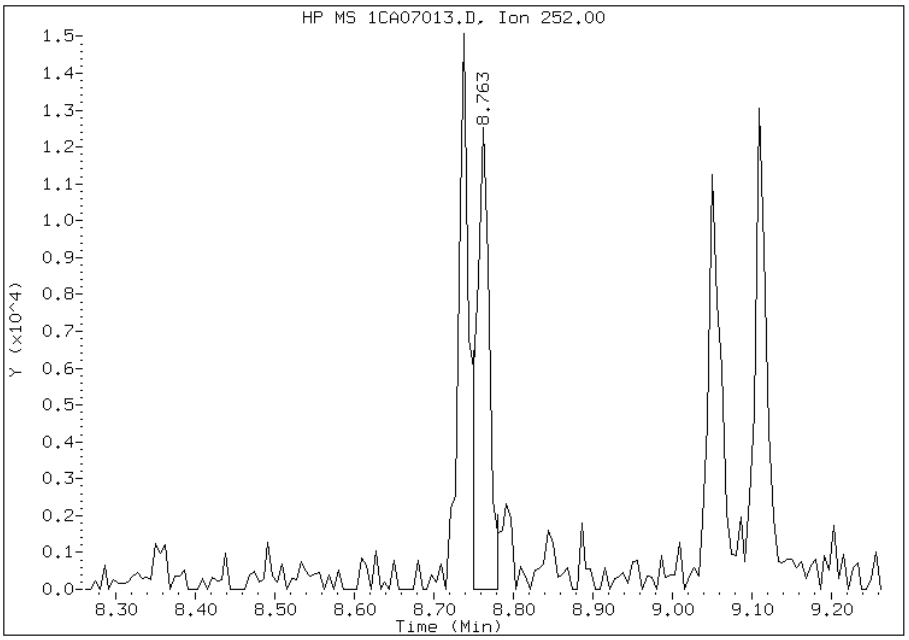
Processing Integration Results

RT: 8.76

Response: 14049

Amount: 0

Conc: 0



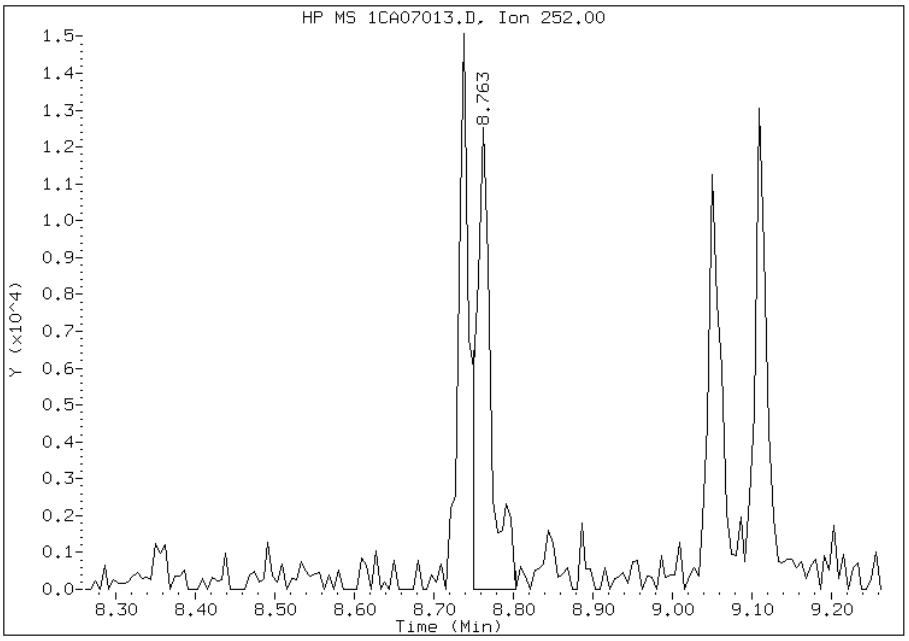
Manual Integration Results

RT: 8.76

Response: 16108

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

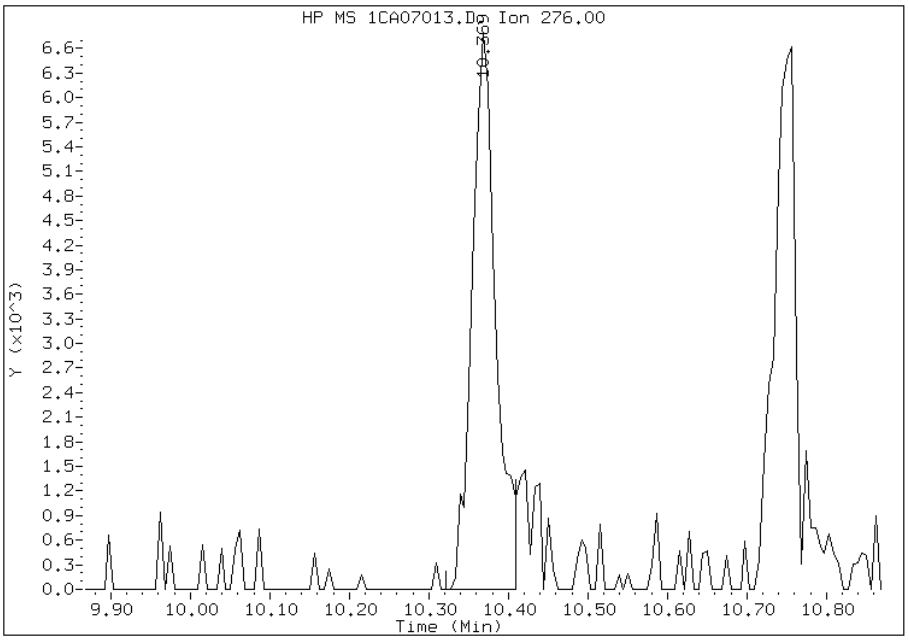
Processing Integration Results

RT: 10.37

Response: 14154

Amount: 0

Conc: 0



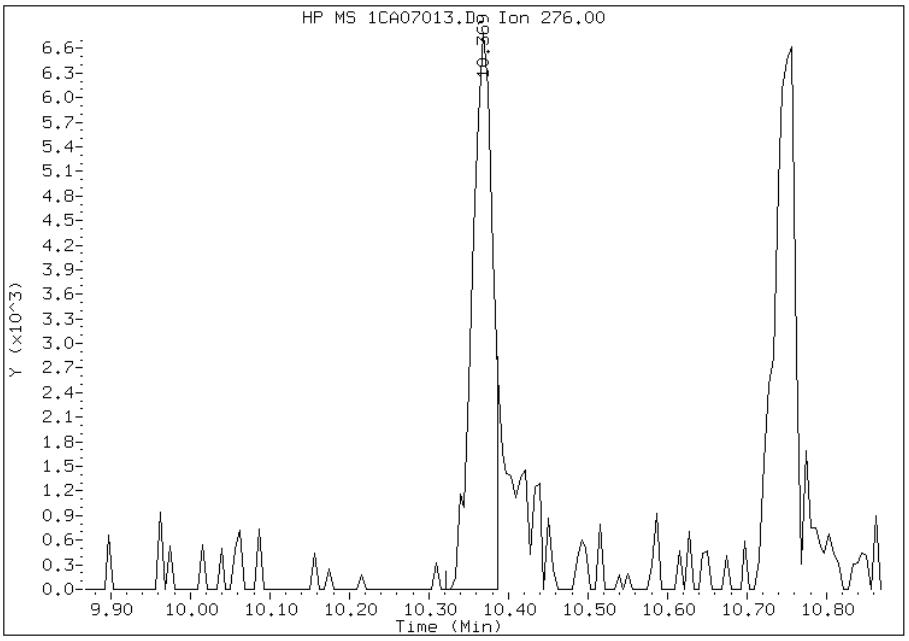
Manual Integration Results

RT: 10.37

Response: 12184

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

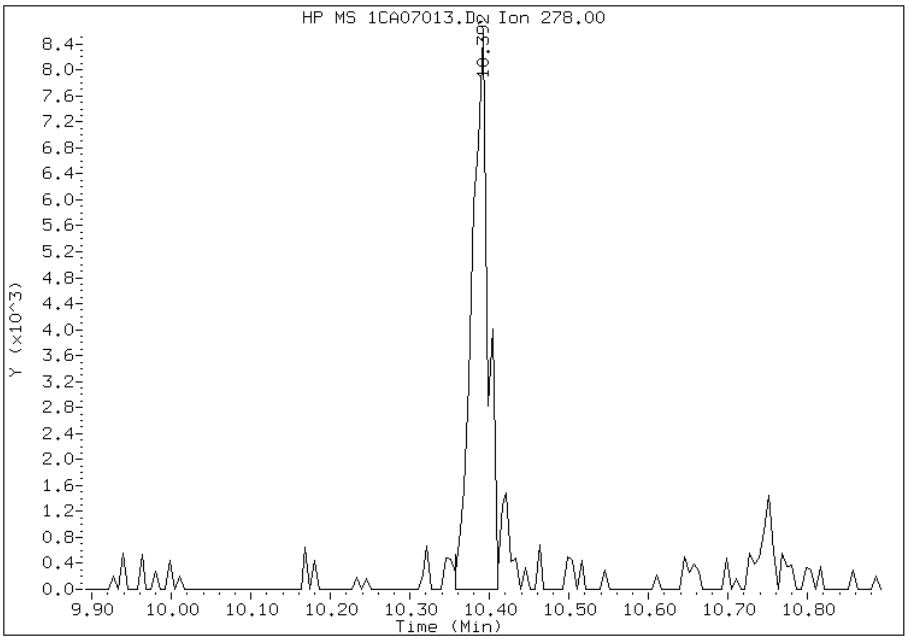
Processing Integration Results

RT: 10.39

Response: 12138

Amount: 0

Conc: 0



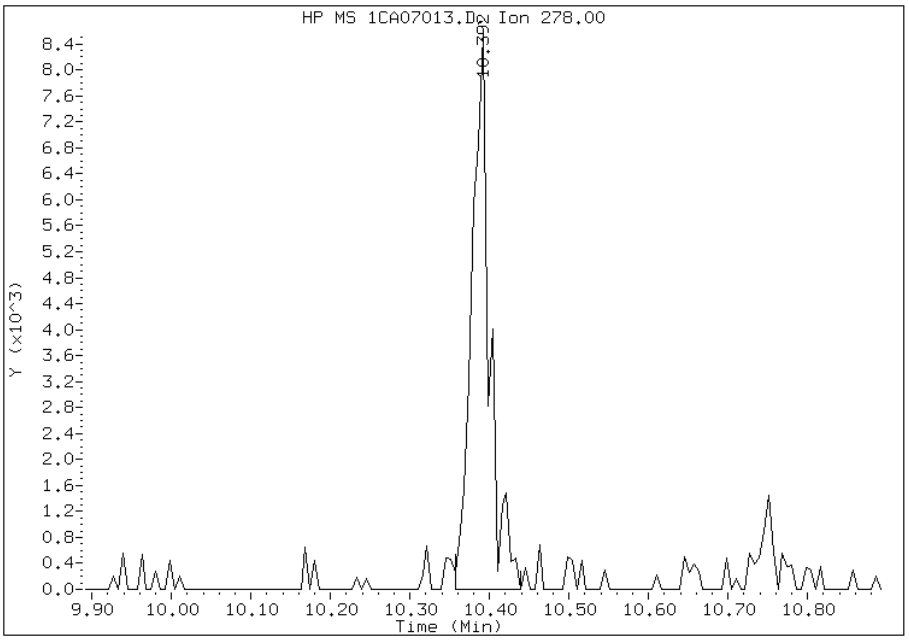
Manual Integration Results

RT: 10.39

Response: 13428

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07013.D
Inj. Date and Time: 07-JAN-2013 15:23
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

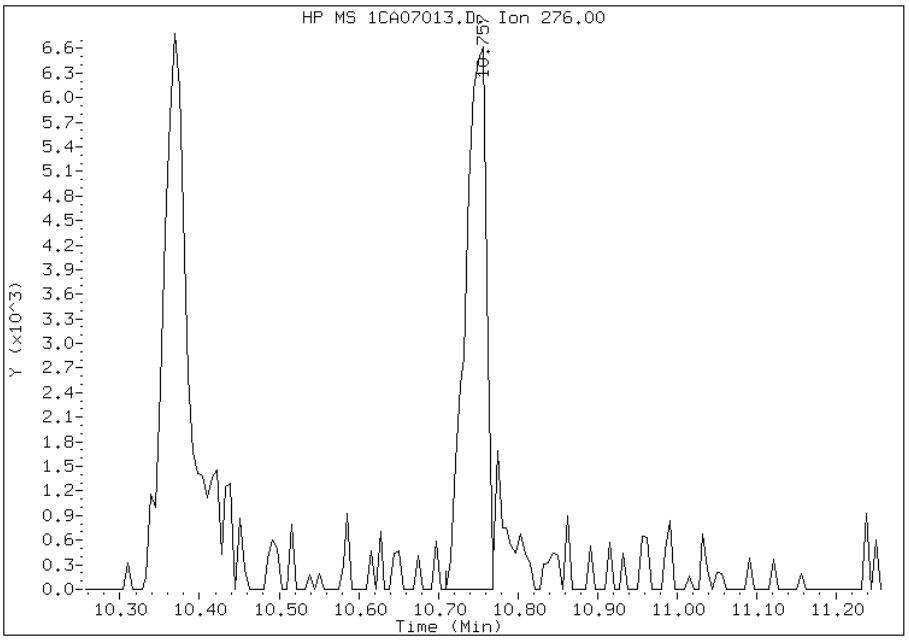
Processing Integration Results

RT: 10.76

Response: 12183

Amount: 0

Conc: 0



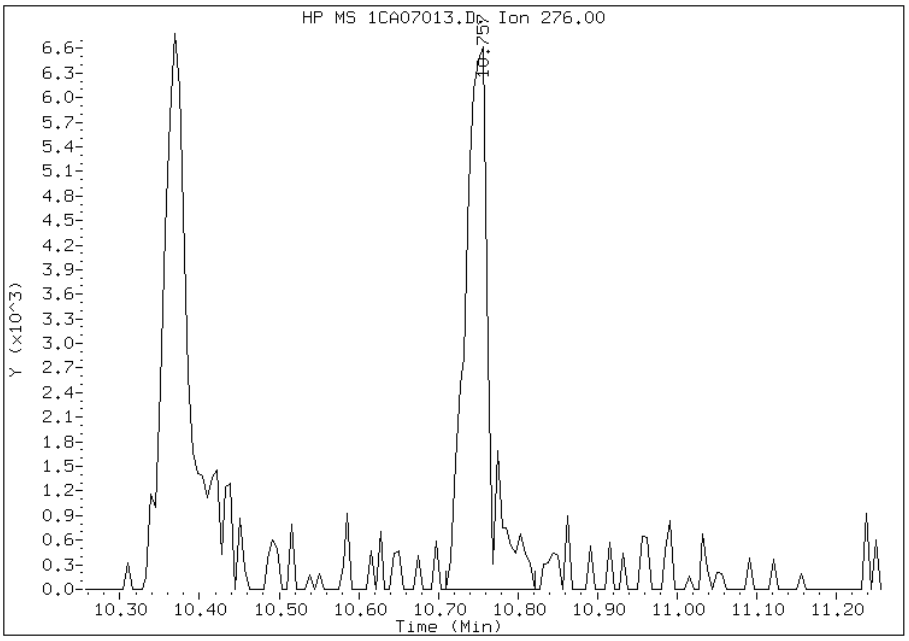
Manual Integration Results

RT: 10.76

Response: 14123

Amount: 0

Conc: 0



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:35
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07014.D
Lab Smp Id: IC-1489895
Inj Date : 07-JAN-2013 15:41
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489895
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:23 Cal File: 1CA07013.D
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2071724	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1544247	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2952062	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	41244	1.00000	0.9535
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3465163	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3457962	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	49180	1.00000	0.8958(Q)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	35101	1.00000	0.9833
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	27760	1.00000	0.8550
5 Acenaphthylene	152	4.868	4.868	(0.982)	55638	1.00000	0.9056
7 Acenaphthene	154	4.974	4.974	(1.004)	39694	1.00000	1.0301
9 Fluorene	166	5.298	5.298	(1.069)	46551	1.00000	0.9411
11 Phenanthrene	178	5.933	5.933	(1.003)	87138	1.00000	0.9888
12 Anthracene	178	5.962	5.962	(1.008)	73594	1.00000	0.9269
13 Carbazole	167	6.074	6.074	(1.027)	63677	1.00000	0.9233
15 Fluoranthene	202	6.774	6.774	(1.145)	79223	1.00000	0.9201
16 Pyrene	202	6.945	6.945	(0.883)	87607	1.00000	0.9496
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	86510	1.00000	0.9053
19 Chrysene	228	7.886	7.886	(1.002)	104834	1.00000	1.0620(M)
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	75135	1.00000	0.8862
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	82752	1.00000	0.8860
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	73092	1.00000	0.9060
24 Indeno(1,2,3-cd)pyrene	276	10.362	10.362	(1.138)	41666	1.00000	0.6078(M)
25 Dibenzo(a,h)anthracene	278	10.380	10.380	(1.139)	67472	1.00000	0.9234(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	68360	1.00000	0.8685(M)

QC Flag Legend

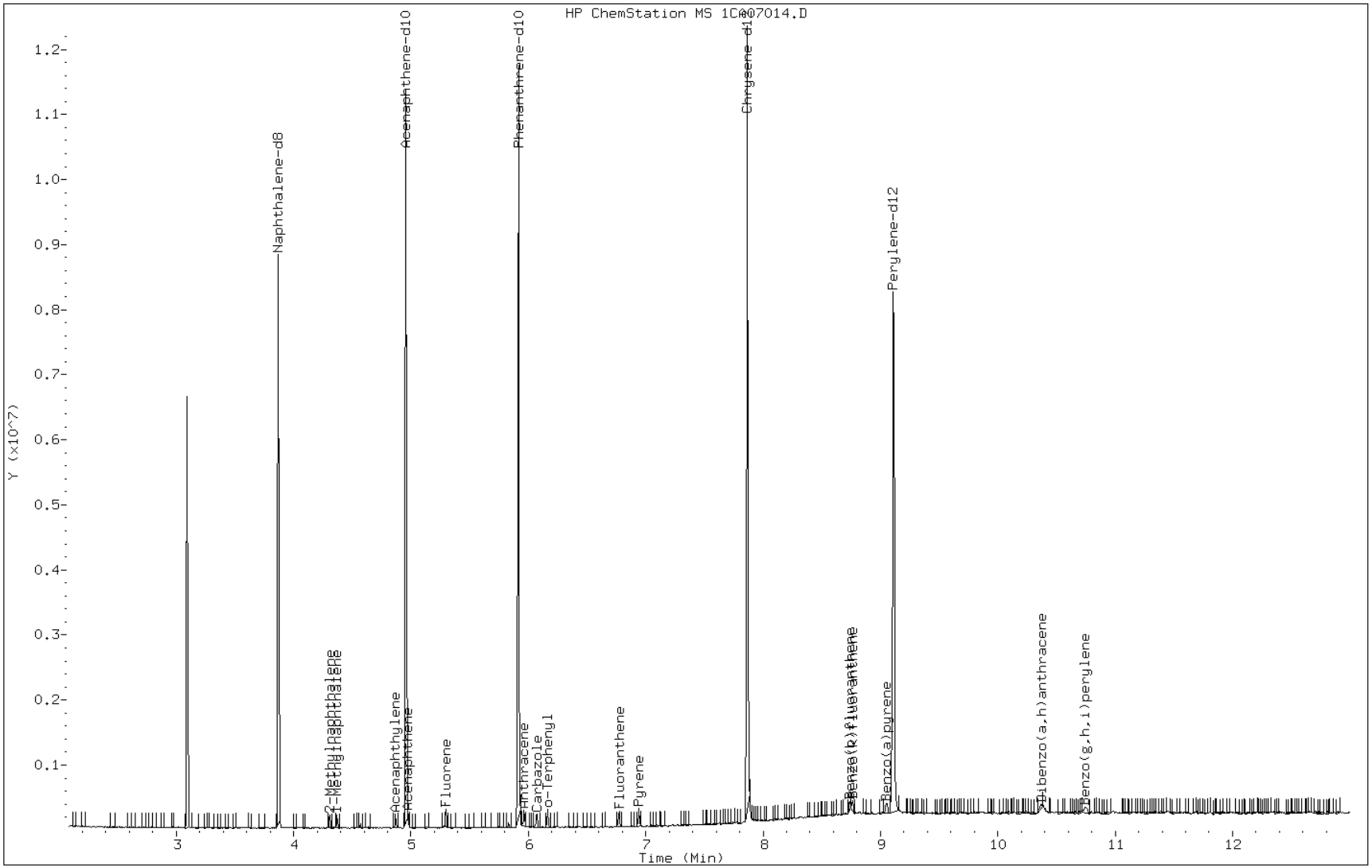
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: 1CA07014.D

Date: 07-JAN-2013 15:41

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489895 Operator: SCC



Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 19 Chrysene
CAS #: 218-01-9
Report Date: 01/08/2013

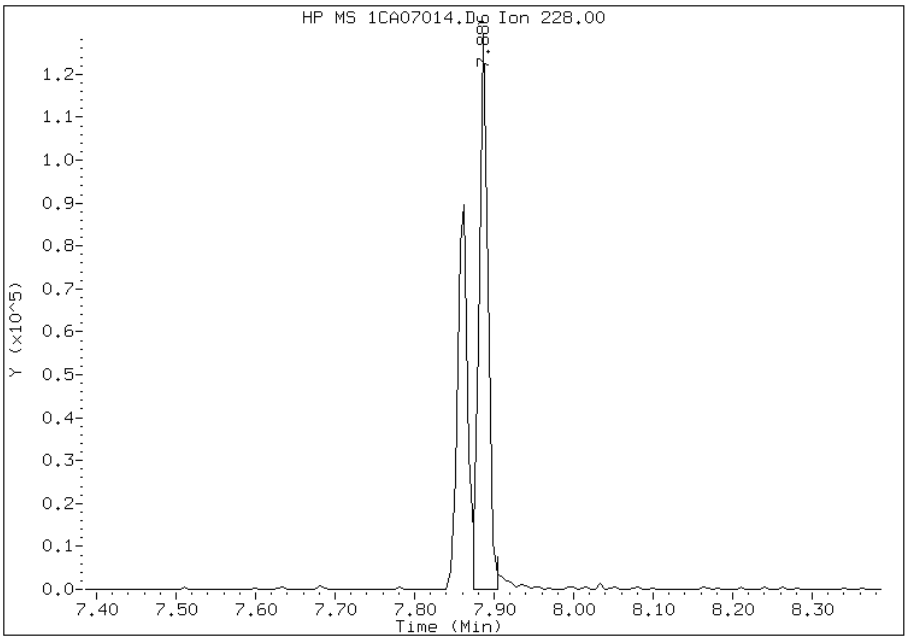
Processing Integration Results

RT: 7.89

Response: 101100

Amount: 1

Conc: 1



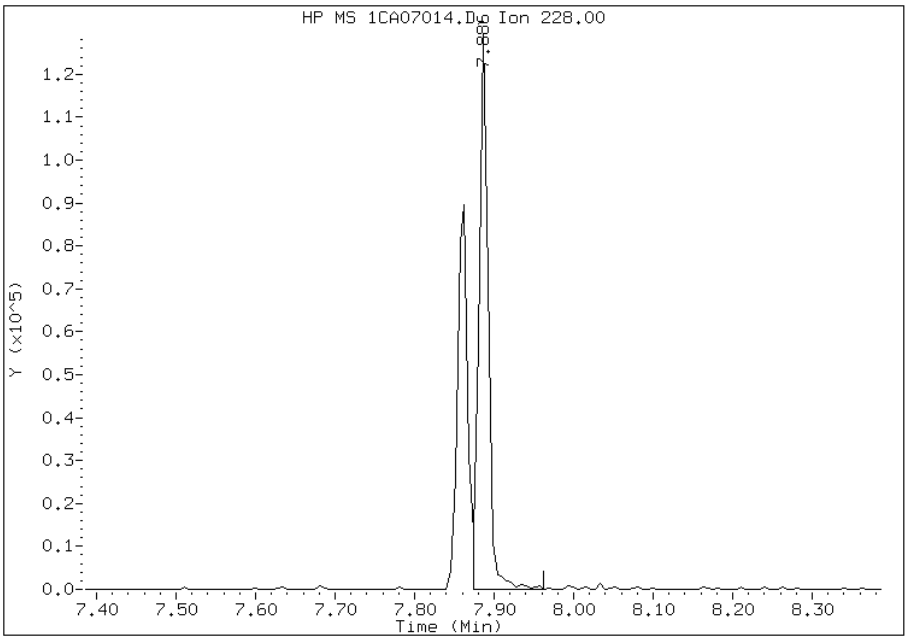
Manual Integration Results

RT: 7.89

Response: 104834

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

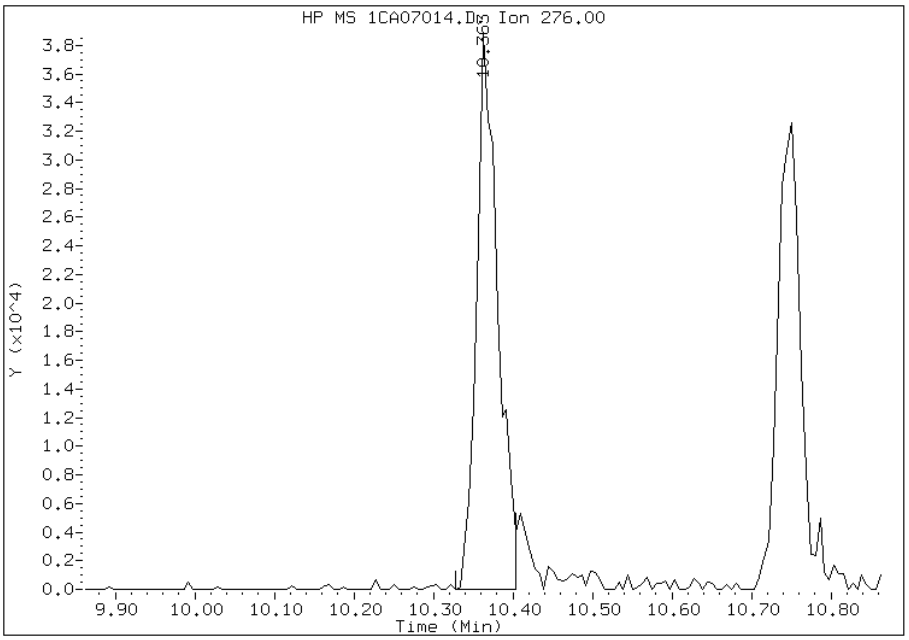
Processing Integration Results

RT: 10.36

Response: 72270

Amount: 1

Conc: 1



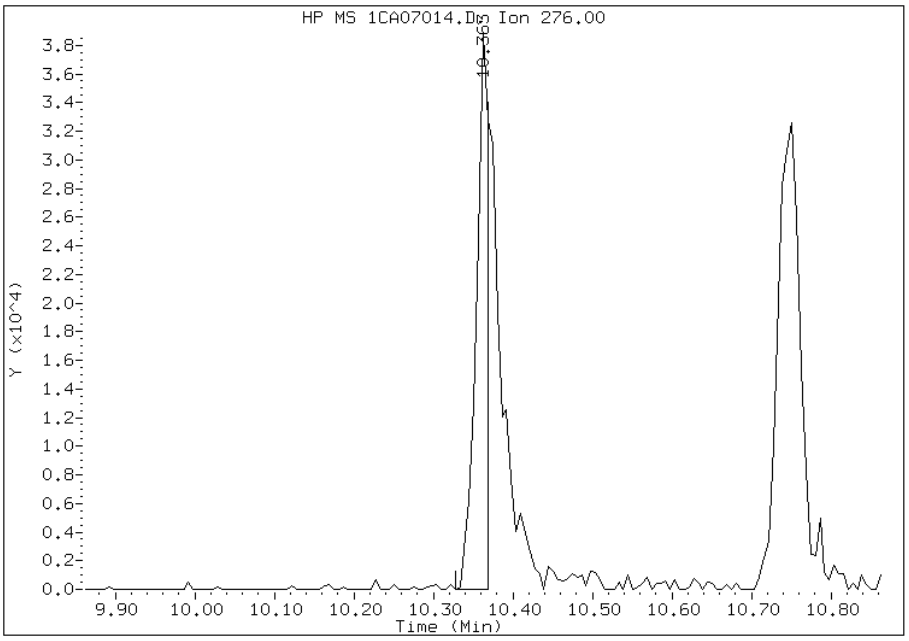
Manual Integration Results

RT: 10.36

Response: 41666

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

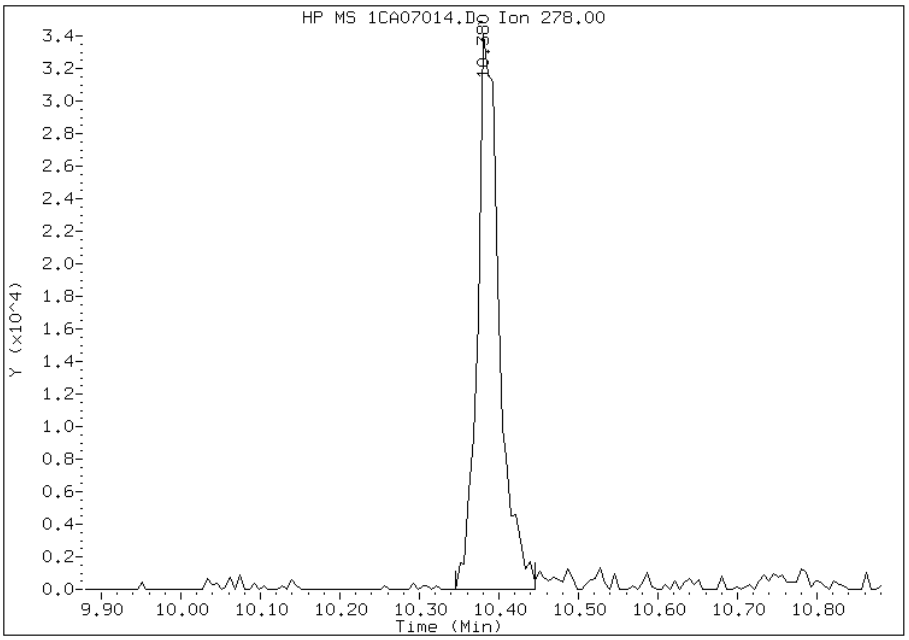
Processing Integration Results

RT: 10.38

Response: 65243

Amount: 1

Conc: 1



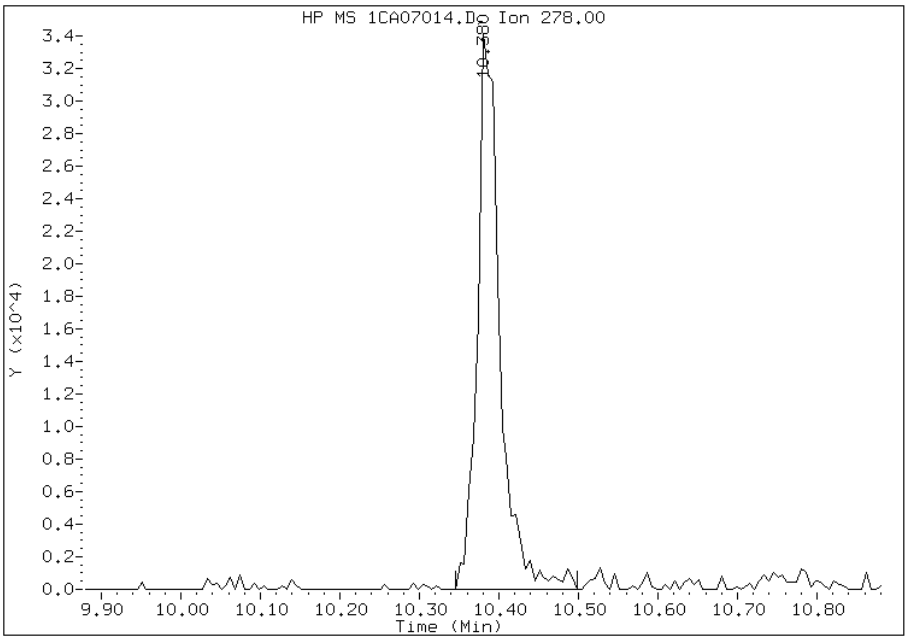
Manual Integration Results

RT: 10.38

Response: 67472

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07014.D
Inj. Date and Time: 07-JAN-2013 15:41
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

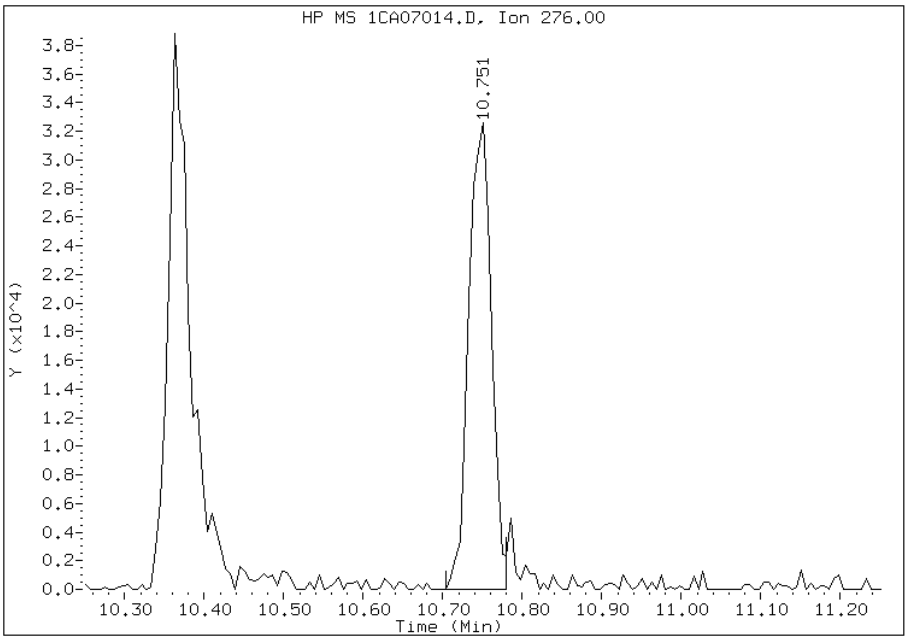
Processing Integration Results

RT: 10.75

Response: 64475

Amount: 1

Conc: 1



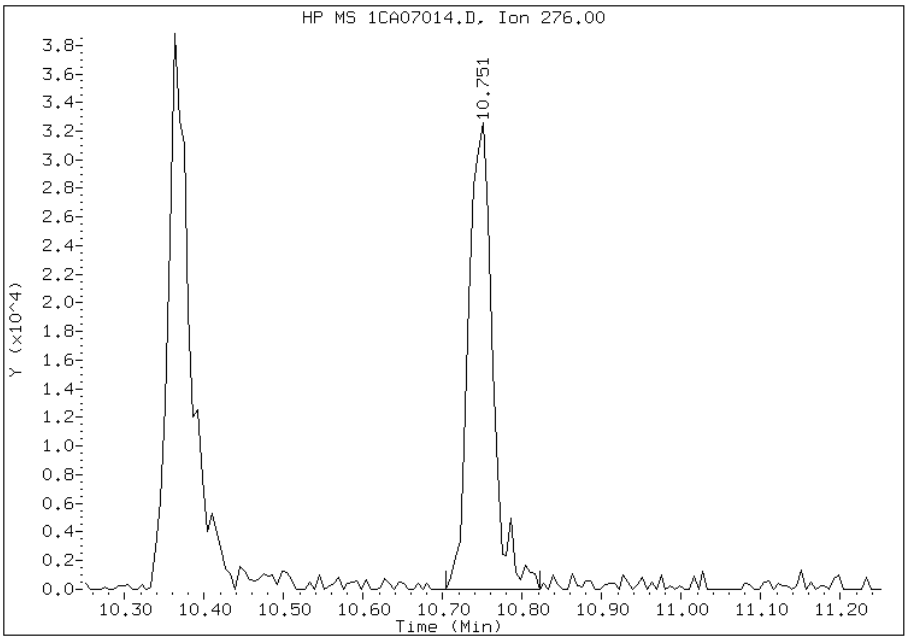
Manual Integration Results

RT: 10.75

Response: 68360

Amount: 1

Conc: 1



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:36
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07015.D
Lab Smp Id: IC-1489896
Inj Date : 07-JAN-2013 15:59
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489896
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:41 Cal File: 1CA07014.D
Als bottle: 15 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2027501	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1502475	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2830661	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	209857	5.00000	5.0597
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3347096	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3463066	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	279616	5.00000	5.2044
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	167348	5.00000	4.7904
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	160060	5.00000	5.0377
5 Acenaphthylene	152	4.869	4.869	(0.982)	277566	5.00000	4.6435
7 Acenaphthene	154	4.974	4.974	(1.004)	177622	5.00000	4.7378
9 Fluorene	166	5.298	5.298	(1.069)	229328	5.00000	4.7653
11 Phenanthrene	178	5.927	5.927	(1.002)	382657	5.00000	4.5288
12 Anthracene	178	5.963	5.963	(1.008)	377684	5.00000	4.9613
13 Carbazole	167	6.074	6.074	(1.027)	311754	5.00000	4.7146
15 Fluoranthene	202	6.774	6.774	(1.145)	411201	5.00000	4.9805
16 Pyrene	202	6.945	6.945	(0.883)	444176	5.00000	4.9847
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	435113	5.00000	4.7140
19 Chrysene	228	7.886	7.886	(1.002)	465452	5.00000	4.8819
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	409334	5.00000	4.8211
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	463057	5.00000	4.9506
22 Benzo(a)pyrene	252	9.051	9.051	(0.994)	394642	5.00000	4.8847
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	352250	5.00000	5.1308(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	352888	5.00000	4.8224(M)
26 Benzo(g,h,i)perylene	276	10.751	10.751	(1.180)	397056	5.00000	5.0373(M)

QC Flag Legend

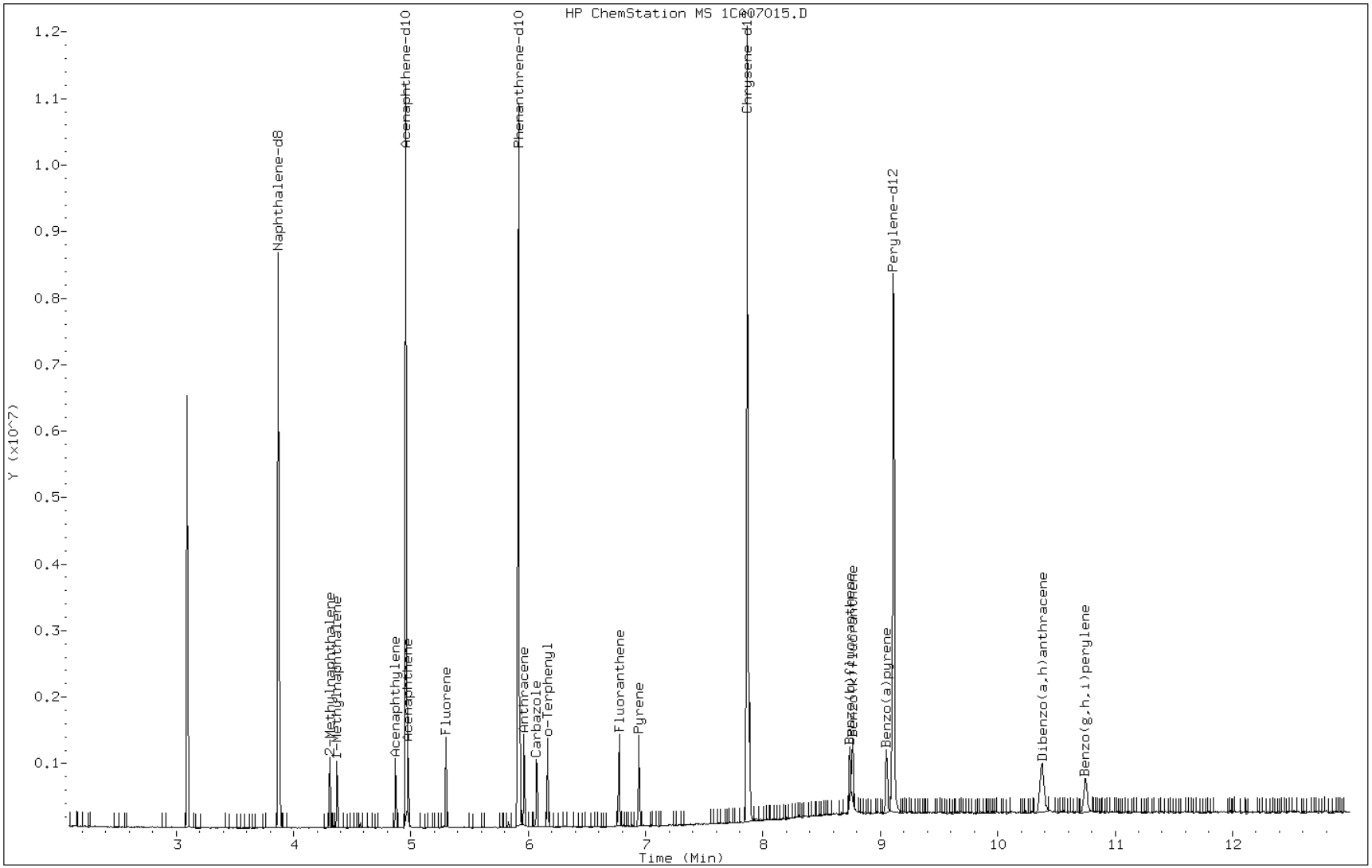
M - Compound response manually integrated.

Data File: 1CA07015.D

Date: 07-JAN-2013 15:59

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489896 Operator: SCC



Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

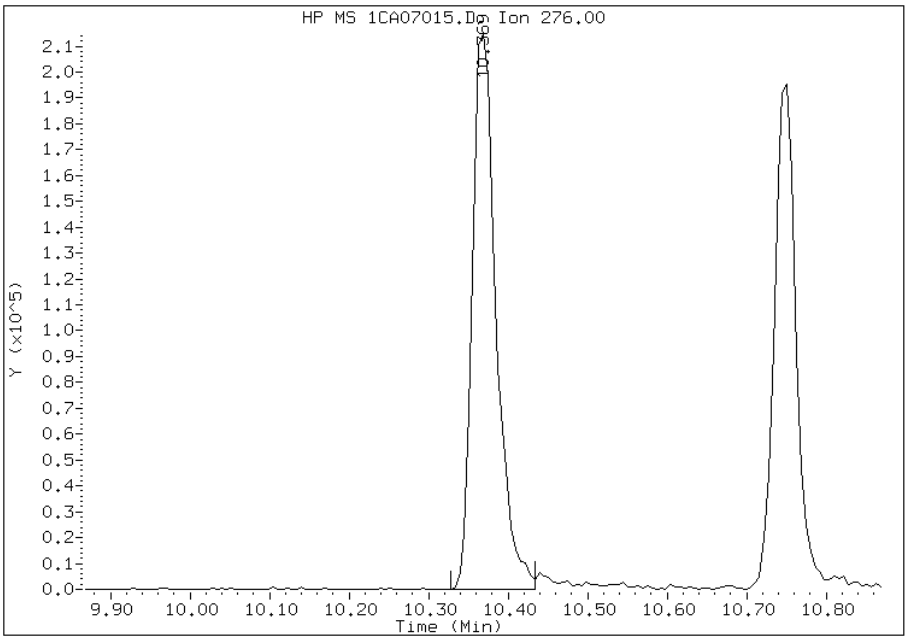
Processing Integration Results

RT: 10.37

Response: 445493

Amount: 6

Conc: 6



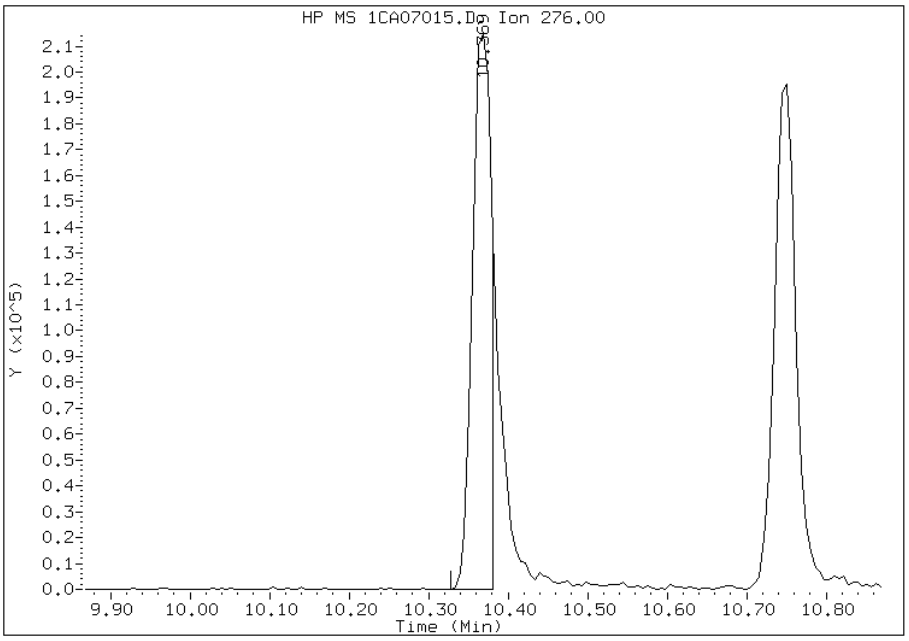
Manual Integration Results

RT: 10.37

Response: 352250

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

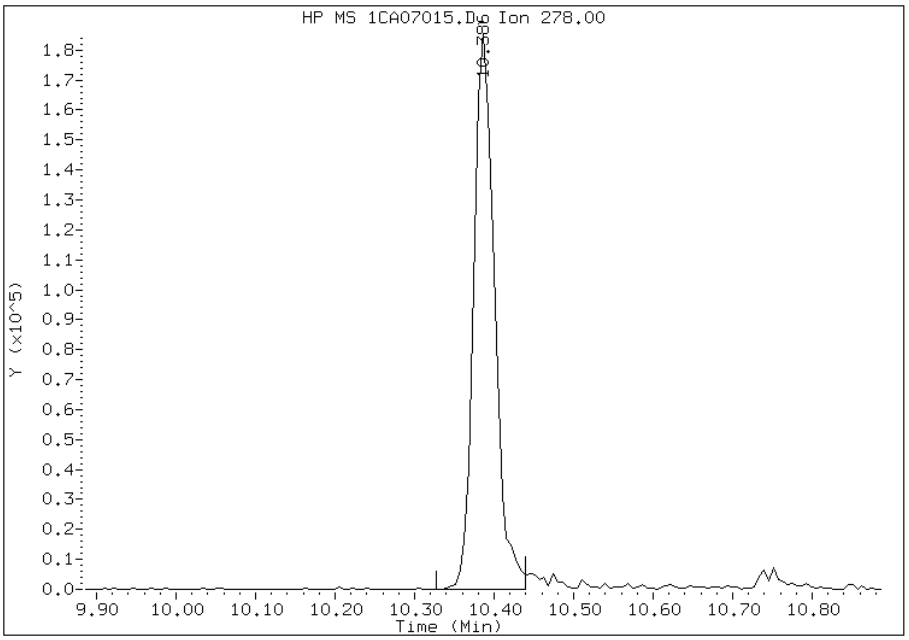
Processing Integration Results

RT: 10.39

Response: 335936

Amount: 5

Conc: 5



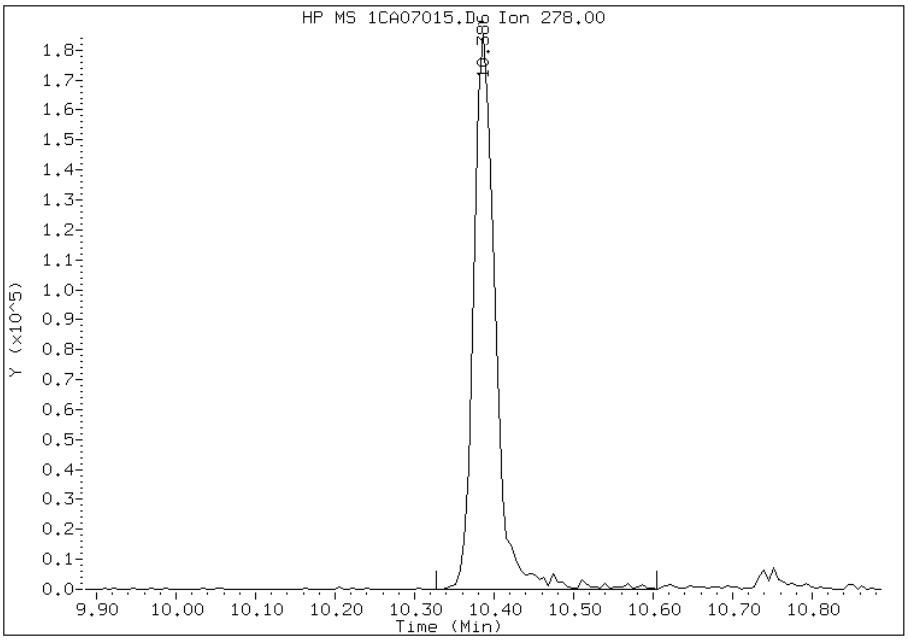
Manual Integration Results

RT: 10.39

Response: 352888

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:37
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07015.D
Inj. Date and Time: 07-JAN-2013 15:59
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

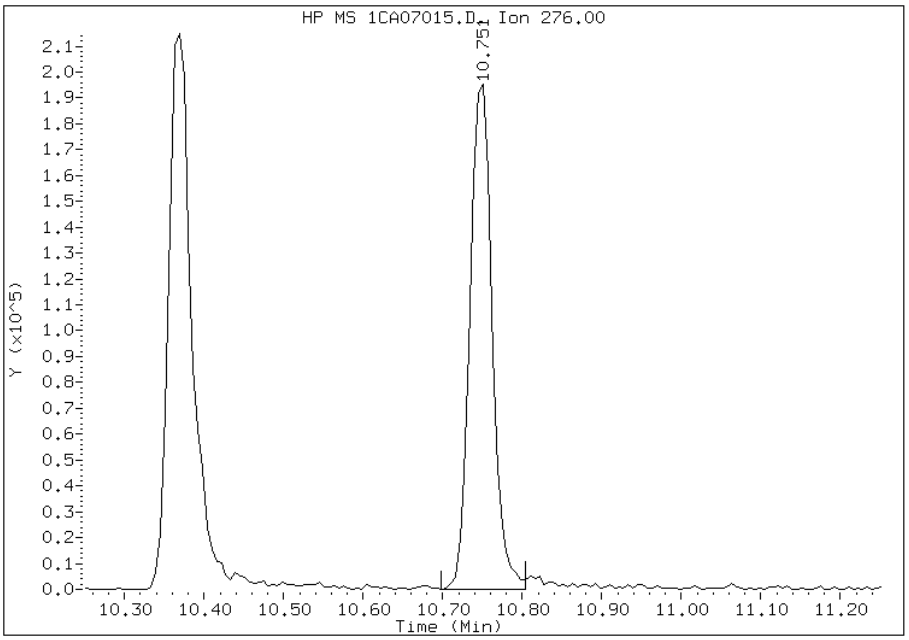
Processing Integration Results

RT: 10.75

Response: 377997

Amount: 5

Conc: 5



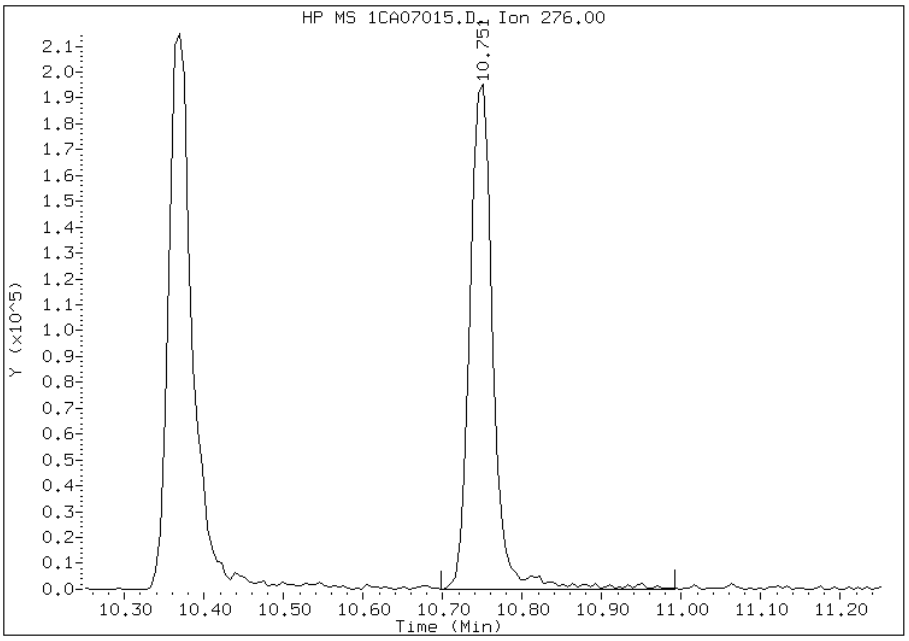
Manual Integration Results

RT: 10.75

Response: 397056

Amount: 5

Conc: 5



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07016.D
Lab Smp Id: IC-1489897
Inj Date : 07-JAN-2013 16:18
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489897
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 15:59 Cal File: 1CA07015.D
Als bottle: 16 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2057907	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1506425	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	2920094	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	450297	10.0000	10.5243
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3577892	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3583032	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	562439	10.0000	10.3139
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	360991	10.0000	10.1808
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	337071	10.0000	10.4523
5 Acenaphthylene	152	4.868	4.868	(0.982)	597168	10.0000	9.9641
7 Acenaphthene	154	4.974	4.974	(1.004)	380155	10.0000	10.1136
9 Fluorene	166	5.298	5.298	(1.069)	499898	10.0000	10.3604
11 Phenanthrene	178	5.927	5.927	(1.002)	852208	10.0000	9.7771
12 Anthracene	178	5.962	5.962	(1.008)	820090	10.0000	10.4428
13 Carbazole	167	6.068	6.068	(1.026)	704012	10.0000	10.3206
15 Fluoranthene	202	6.774	6.774	(1.145)	893123	10.0000	10.4863
16 Pyrene	202	6.945	6.945	(0.883)	1032505	10.0000	10.8396
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	948119	10.0000	9.6094
19 Chrysene	228	7.886	7.886	(1.002)	1039885	10.0000	10.2033
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	924867	10.0000	10.5284
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	1029821	10.0000	10.6413
22 Benzo(a)pyrene	252	9.050	9.050	(0.994)	891772	10.0000	10.6685
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	744949	10.0000	10.4876(M)
25 Dibenzo(a,h)anthracene	278	10.386	10.386	(1.140)	785898	10.0000	10.3803(M)
26 Benzo(g,h,i)perylene	276	10.744	10.744	(1.179)	865965	10.0000	10.6183(M)

QC Flag Legend

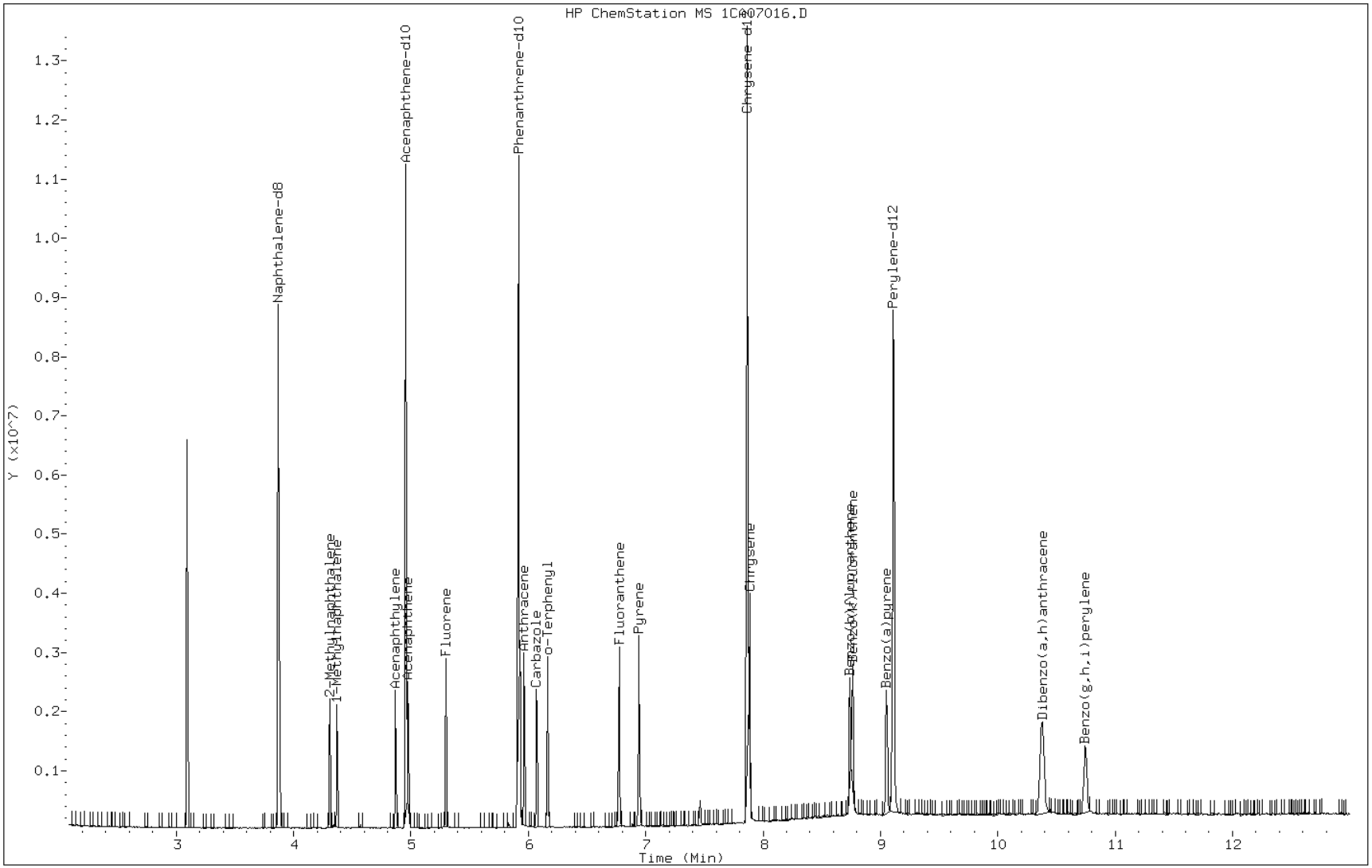
M - Compound response manually integrated.

Data File: 1CA07016.D

Date: 07-JAN-2013 16:18

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489897 Operator: SCC



Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

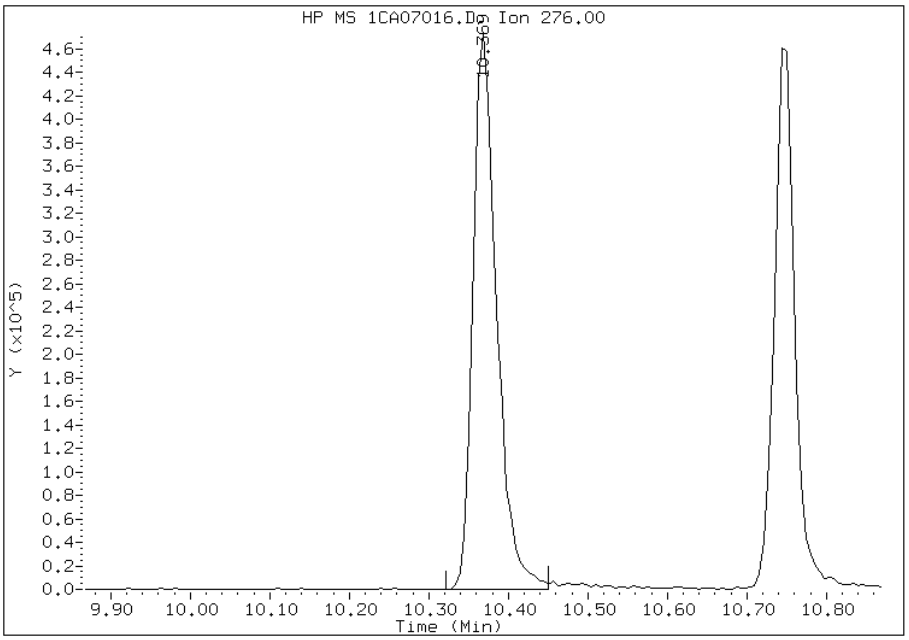
Processing Integration Results

RT: 10.37

Response: 970985

Amount: 12

Conc: 12



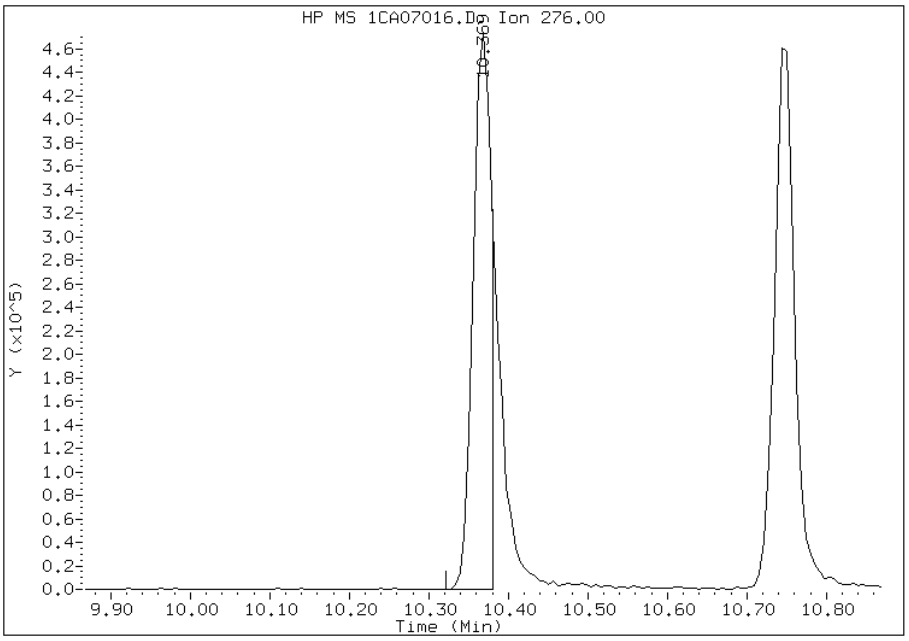
Manual Integration Results

RT: 10.37

Response: 744949

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

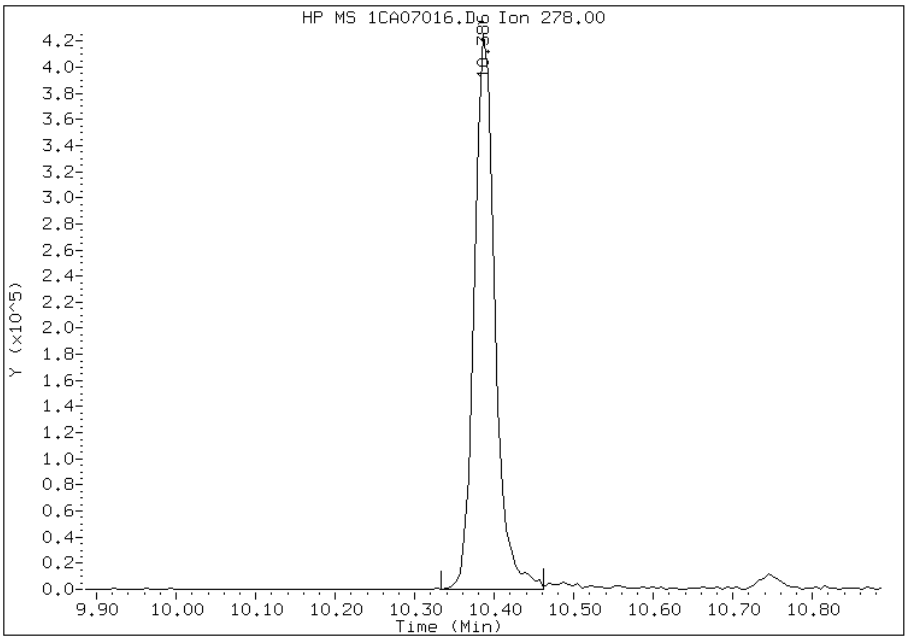
Processing Integration Results

RT: 10.39

Response: 764351

Amount: 10

Conc: 10



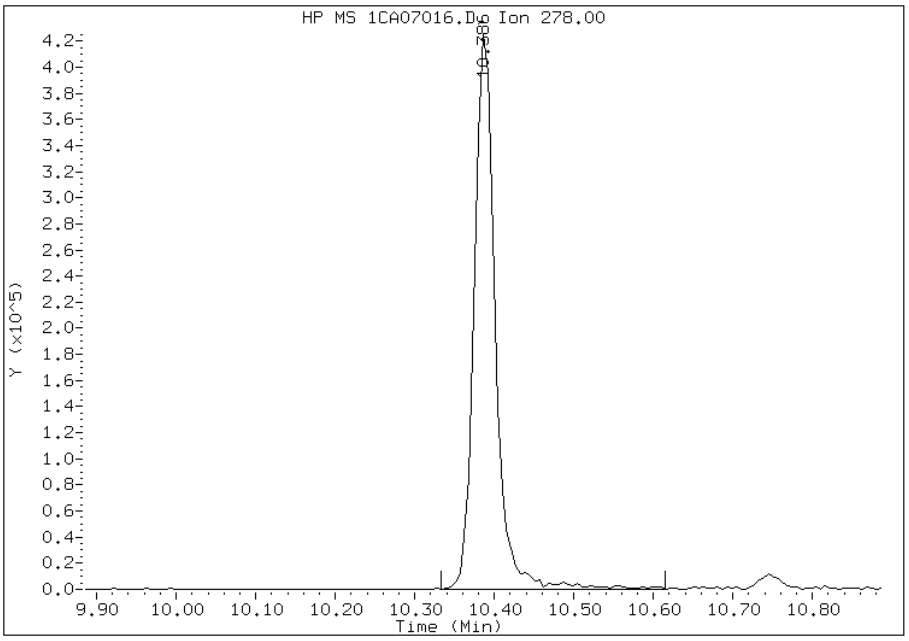
Manual Integration Results

RT: 10.39

Response: 785898

Amount: 10

Conc: 10



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:38
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07016.D
Inj. Date and Time: 07-JAN-2013 16:18
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

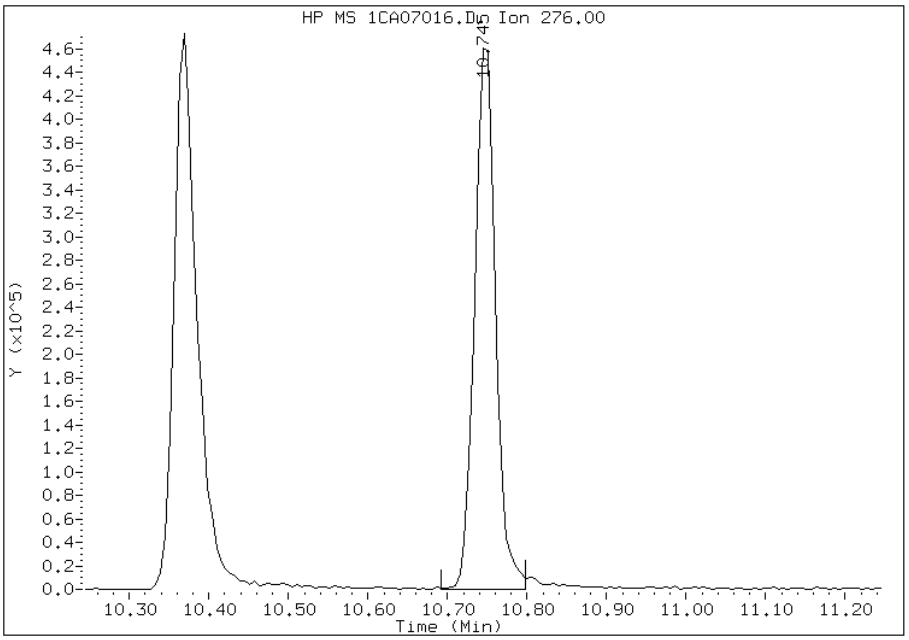
Processing Integration Results

RT: 10.74

Response: 835718

Amount: 10

Conc: 10



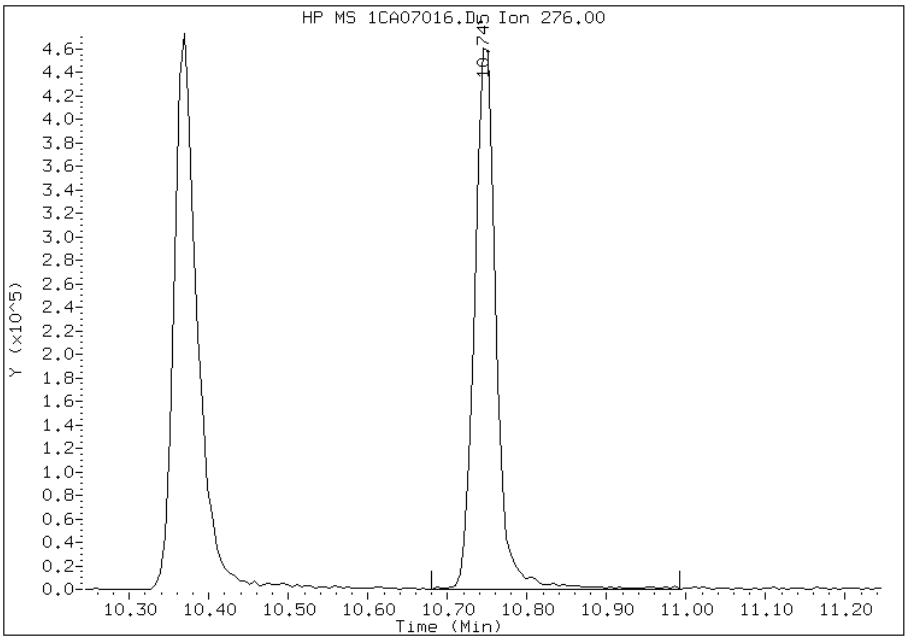
Manual Integration Results

RT: 10.74

Response: 865965

Amount: 11

Conc: 11



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07017.D
Lab Smp Id: ICIS-1489898
Inj Date : 07-JAN-2013 16:36
Operator : SCC Inst ID: BSMC5973.i
Smp Info : ICIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:18 Cal File: 1CA07016.D
Als bottle: 17 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.868	3.868	(1.000)	2194838	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1653478	40.0000	
* 10 Phenanthrene-d10	188	5.915	5.915	(1.000)	3141284	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	943151	20.0000	20.4912
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3787207	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3790527	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1132608	20.0000	19.4738
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	738557	20.0000	19.5296
4 1-Methylnaphthalene	142	4.368	4.368	(1.129)	714057	20.0000	20.7609
5 Acenaphthylene	152	4.868	4.868	(0.982)	1333542	20.0000	20.2720
7 Acenaphthene	154	4.974	4.974	(1.004)	777625	20.0000	18.8479
9 Fluorene	166	5.298	5.298	(1.069)	1052584	20.0000	19.8748
11 Phenanthrene	178	5.927	5.927	(1.002)	1725035	20.0000	18.3973
12 Anthracene	178	5.962	5.962	(1.008)	1722588	20.0000	20.3906
13 Carbazole	167	6.074	6.074	(1.027)	1516911	20.0000	20.6718
15 Fluoranthene	202	6.774	6.774	(1.145)	1958378	20.0000	21.3746
16 Pyrene	202	6.945	6.945	(0.883)	2128584	20.0000	21.1117
17 Benzo(a)anthracene	228	7.856	7.856	(0.999)	1936797	20.0000	18.5450
19 Chrysene	228	7.886	7.886	(1.002)	2079538	20.0000	19.2766
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	1891292	20.0000	20.3514
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	2181246	20.0000	21.3054
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	1856241	20.0000	20.9912
24 Indeno(1,2,3-cd)pyrene	276	10.368	10.368	(1.138)	1706161	20.0000	22.7051(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	1627151	20.0000	20.3153(M)
26 Benzo(g,h,i)perylene	276	10.750	10.750	(1.180)	1745002	20.0000	20.2256(M)

QC Flag Legend

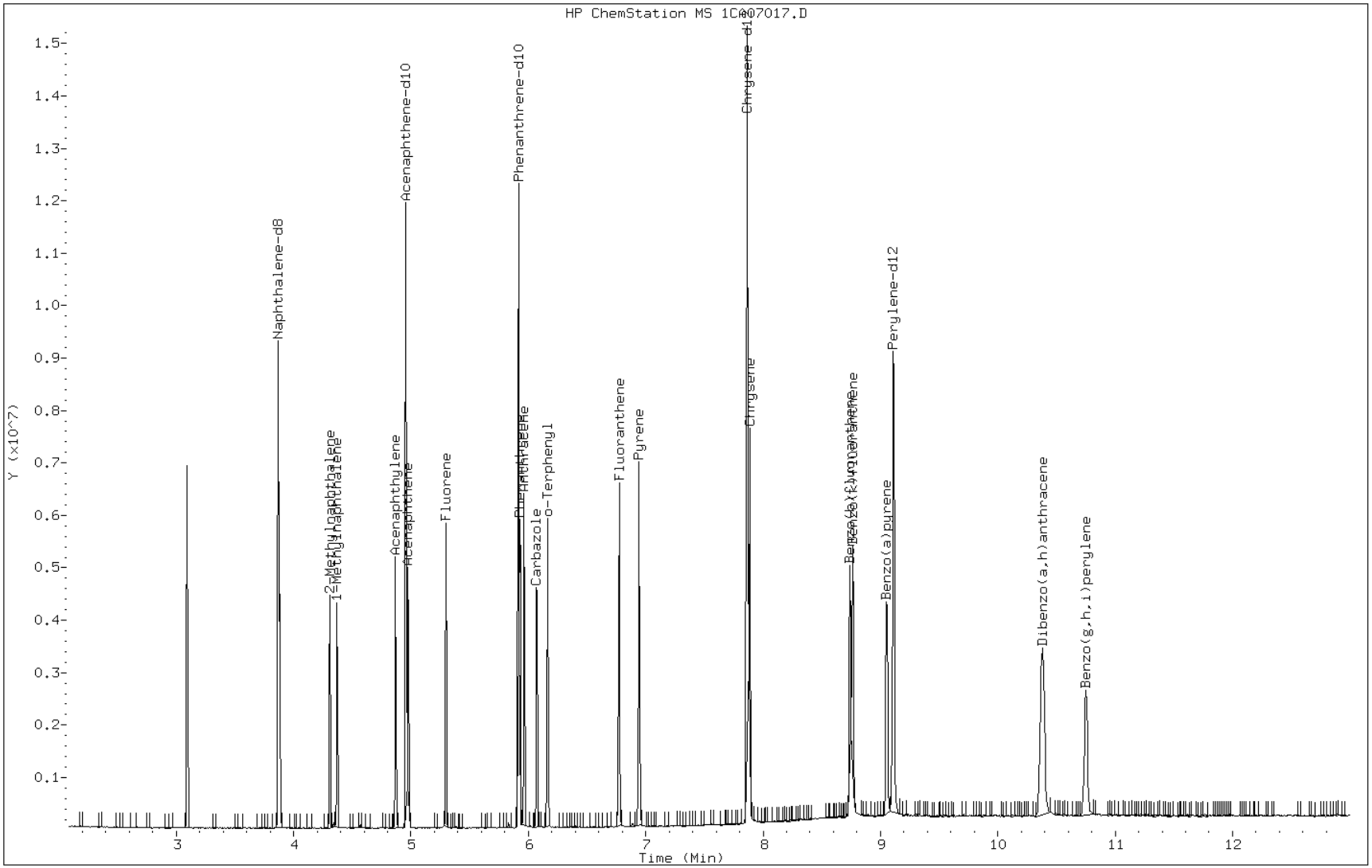
M - Compound response manually integrated.

Data File: 1CA07017.D

Date: 07-JAN-2013 16:36

Client ID: Instrument: BSMC5973.i

Sample Info: ICIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

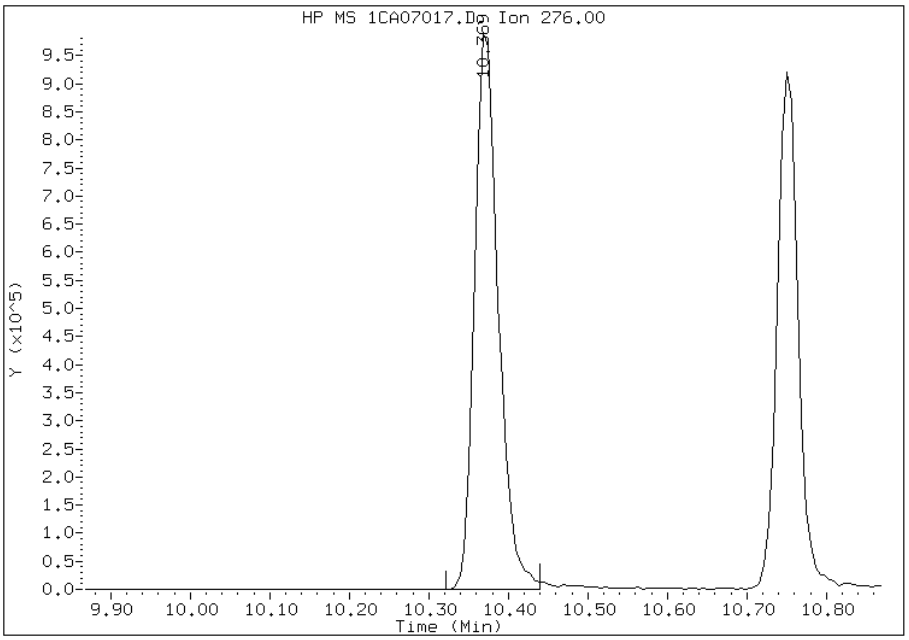
Processing Integration Results

RT: 10.37

Response: 2044337

Amount: 23

Conc: 23



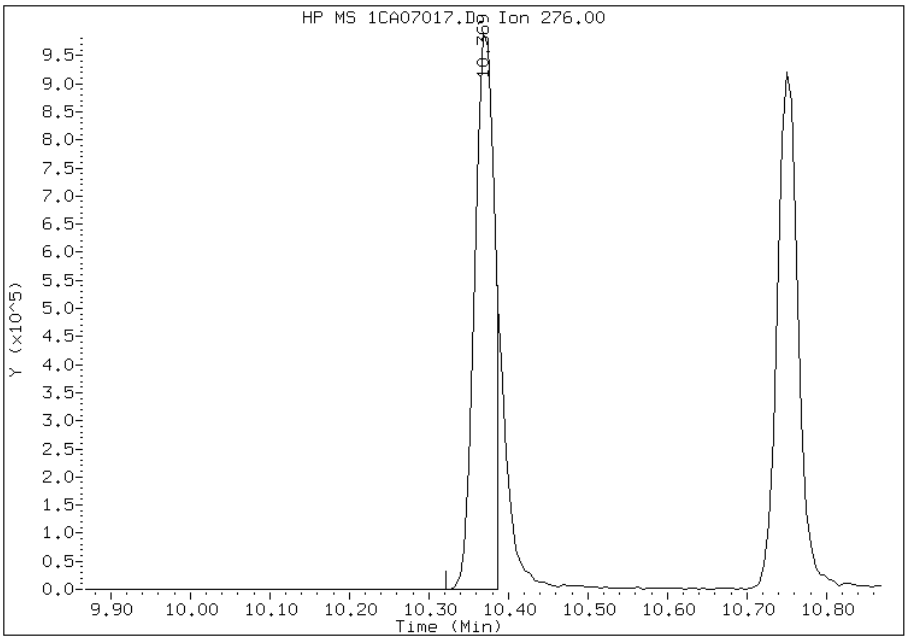
Manual Integration Results

RT: 10.37

Response: 1706161

Amount: 23

Conc: 23



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Split Peak

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 25 Dibenzo(a,h)anthracene
CAS #: 53-70-3
Report Date: 01/08/2013

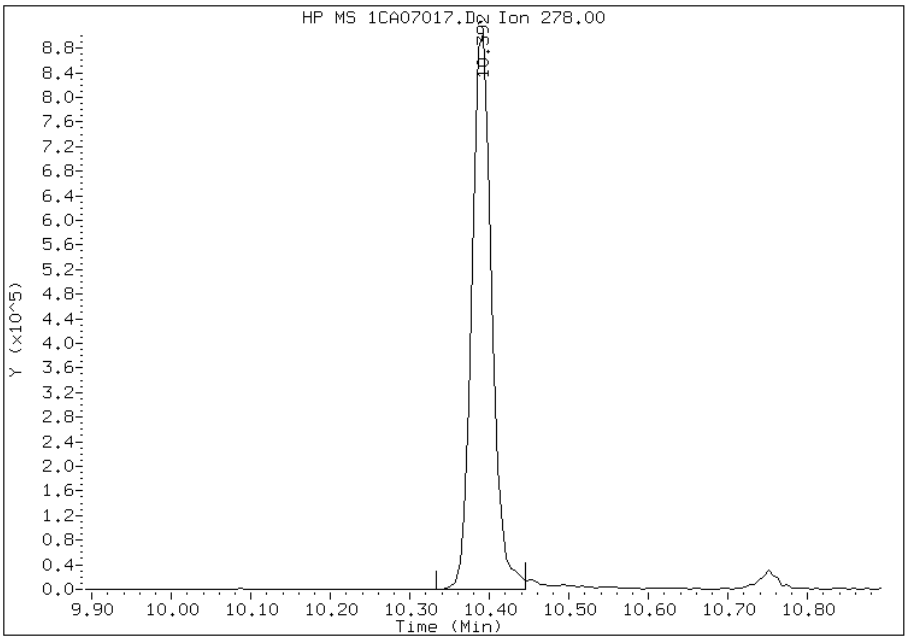
Processing Integration Results

RT: 10.39

Response: 1569221

Amount: 19

Conc: 19



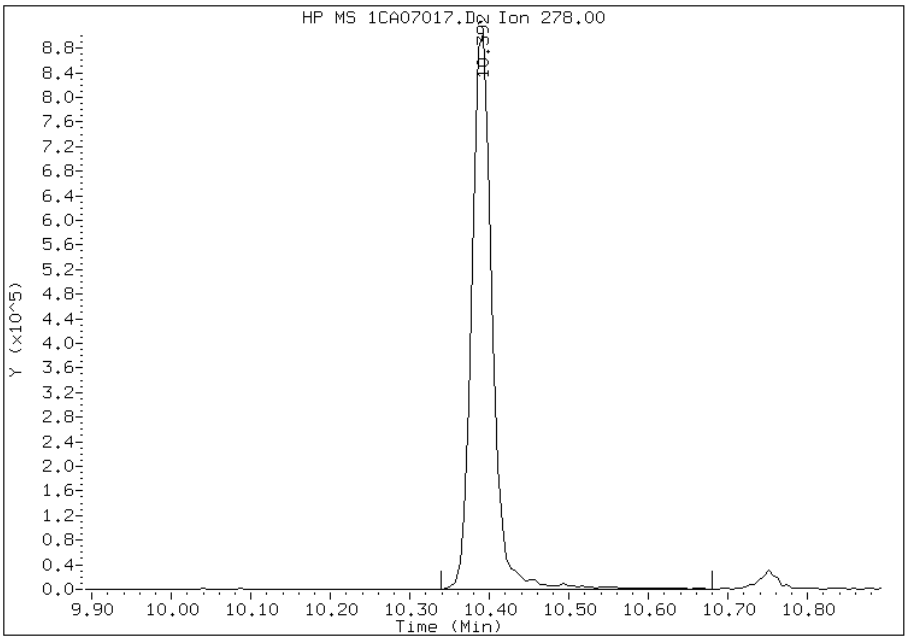
Manual Integration Results

RT: 10.39

Response: 1627151

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

Manual Integration Report

Data File: 1CA07017.D
Inj. Date and Time: 07-JAN-2013 16:36
Instrument ID: BSMC5973.i
Client ID:
Compound: 26 Benzo(g,h,i)perylene
CAS #: 191-24-2
Report Date: 01/08/2013

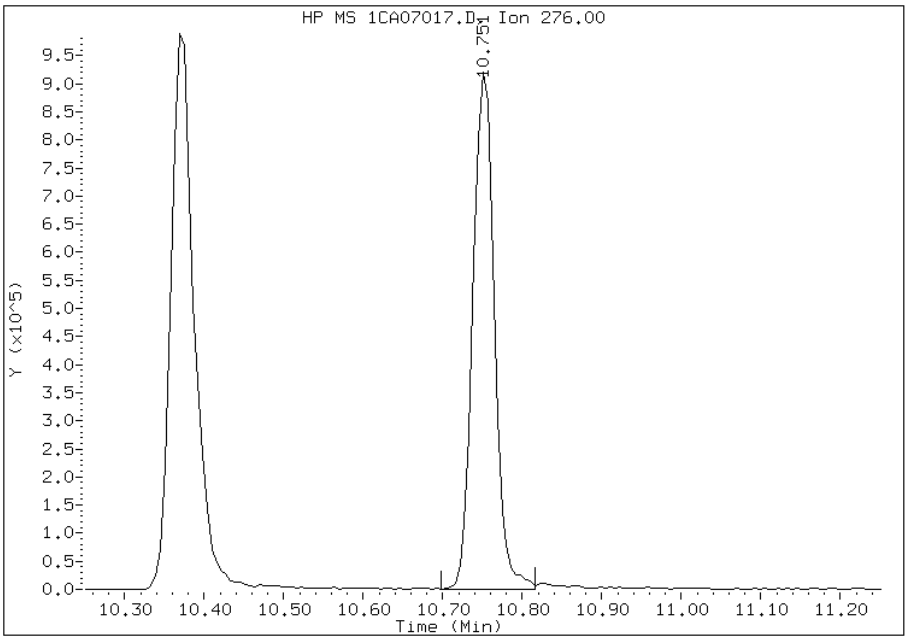
Processing Integration Results

RT: 10.75

Response: 1711397

Amount: 19

Conc: 19



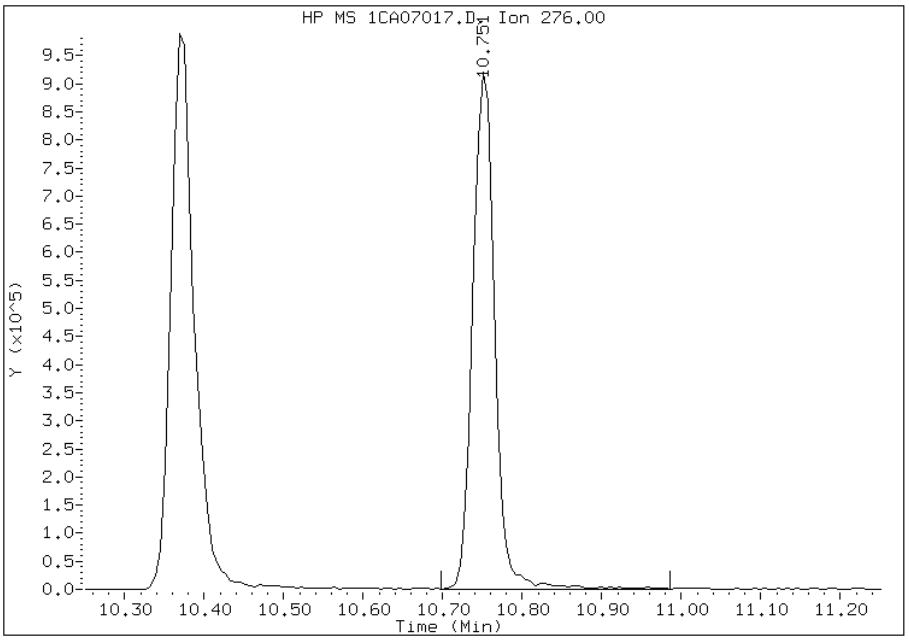
Manual Integration Results

RT: 10.75

Response: 1745002

Amount: 20

Conc: 20



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:32
Manual Integration Reason: Baseline Event

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07018.D
Lab Smp Id: IC-1489899
Inj Date : 07-JAN-2013 16:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489899
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:40 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:36 Cal File: 1CA07017.D
Als bottle: 18 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	2206384	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1682844	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	3224181	40.0000	
$ 14 o-Terphenyl	230	6.169	6.169	(1.043)	1447125	30.0000	30.6324
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3659777	40.0000	
* 23 Perylene-d12	264	9.109	9.109	(1.000)	3629385	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	1744899	30.0000	29.8445
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1125305	30.0000	29.6006
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1099203	30.0000	31.7916
5 Acenaphthylene	152	4.869	4.869	(0.982)	2078096	30.0000	31.0392
7 Acenaphthene	154	4.974	4.974	(1.004)	1212087	30.0000	28.8657
9 Fluorene	166	5.298	5.298	(1.069)	1642686	30.0000	30.4758
11 Phenanthrene	178	5.927	5.927	(1.002)	2725408	30.0000	28.3189
12 Anthracene	178	5.963	5.963	(1.008)	2681981	30.0000	30.9308
13 Carbazole	167	6.074	6.074	(1.027)	2392859	30.0000	31.7704
15 Fluoranthene	202	6.774	6.774	(1.145)	2977438	30.0000	31.6615
16 Pyrene	202	6.945	6.945	(0.883)	3254878	30.0000	33.4065
17 Benzo(a)anthracene	228	7.857	7.857	(0.999)	2964525	30.0000	29.3740
19 Chrysene	228	7.886	7.886	(1.002)	3031738	30.0000	29.0818
20 Benzo(b)fluoranthene	252	8.739	8.739	(0.959)	2773683	30.0000	31.1717
21 Benzo(k)fluoranthene	252	8.762	8.762	(0.962)	3267104	30.0000	33.3285
22 Benzo(a)pyrene	252	9.057	9.057	(0.994)	2808161	30.0000	33.1659
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.139)	2564602	30.0000	35.6443(M)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.141)	2451088	30.0000	31.9610
26 Benzo(g,h,i)perylene	276	10.756	10.756	(1.181)	2713188	30.0000	32.8438

QC Flag Legend

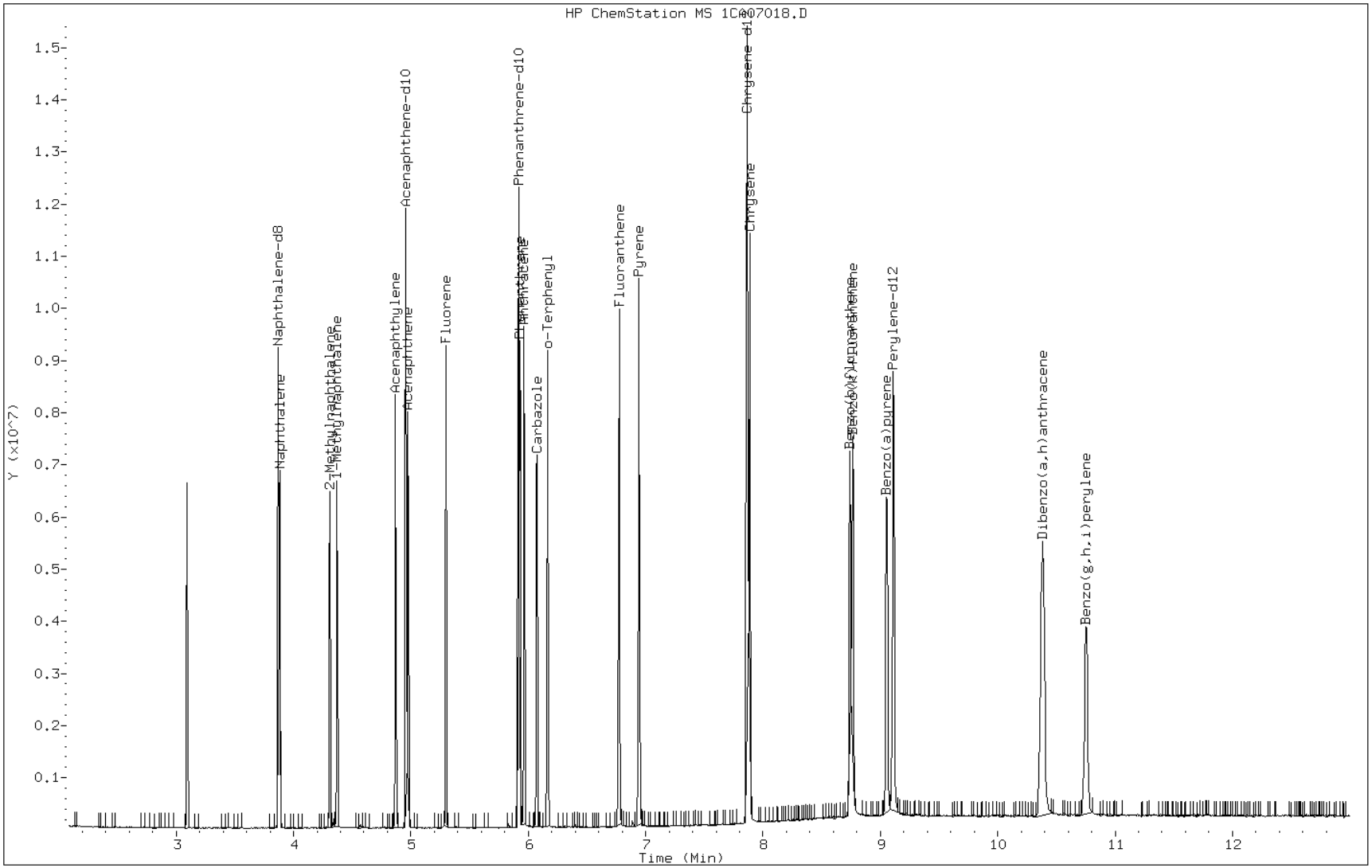
M - Compound response manually integrated.

Data File: 1CA07018.D

Date: 07-JAN-2013 16:54

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489899 Operator: SCC



Manual Integration Report

Data File: 1CA07018.D
Inj. Date and Time: 07-JAN-2013 16:54
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

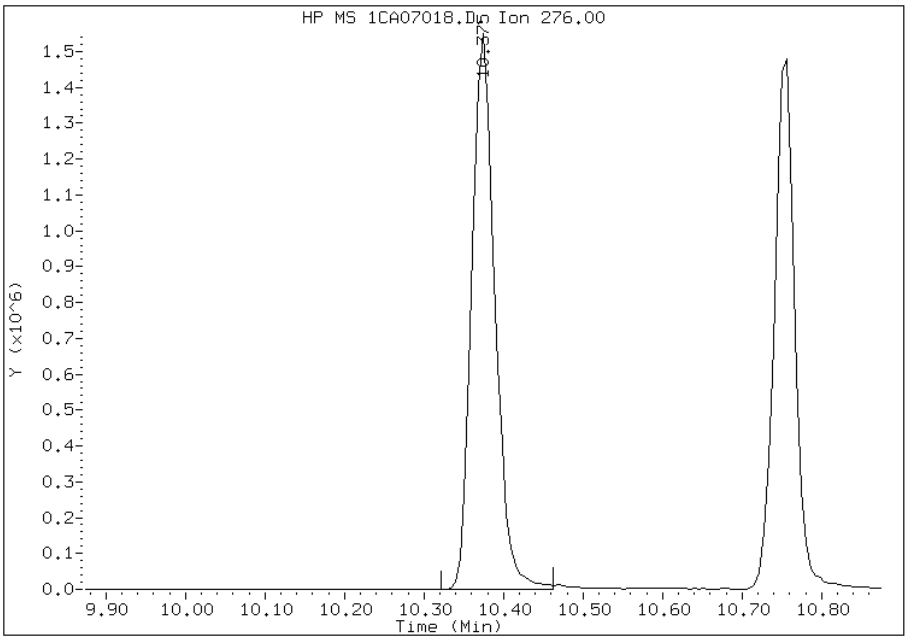
Processing Integration Results

RT: 10.37

Response: 3123860

Amount: 35

Conc: 35



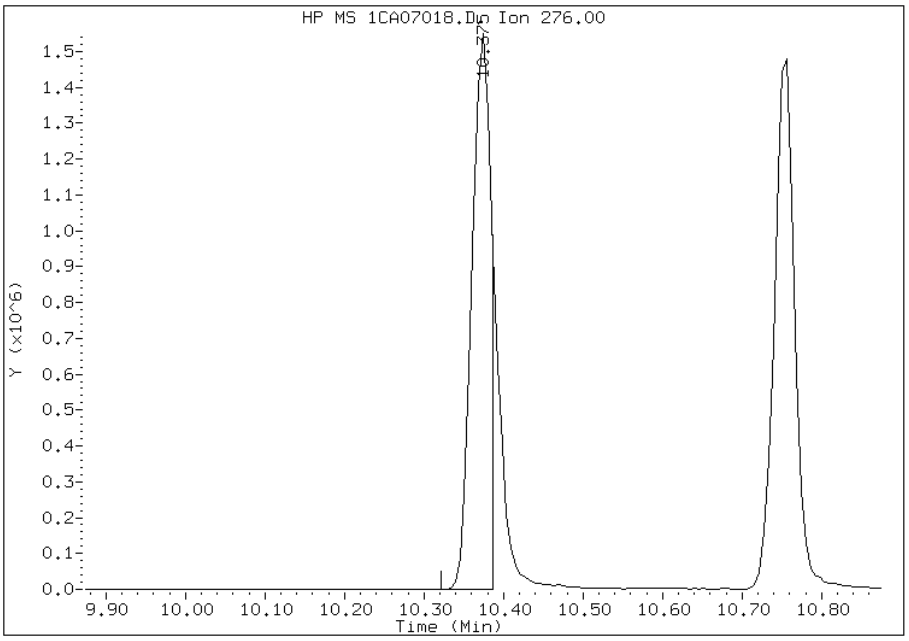
Manual Integration Results

RT: 10.37

Response: 2564602

Amount: 36

Conc: 36



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:39
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07019.D
Lab Smp Id: IC-1489900
Inj Date : 07-JAN-2013 17:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : IC-1489900
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\a-bFASTPAHi-m.m
Meth Date : 08-Jan-2013 12:41 BSMC5973.i Quant Type: ISTD
Cal Date : 07-JAN-2013 16:54 Cal File: 1CA07018.D
Als bottle: 19 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.869	3.869	(1.000)	1965517	40.0000	
* 6 Acenaphthene-d10	164	4.957	4.957	(1.000)	1517262	40.0000	
* 10 Phenanthrene-d10	188	5.916	5.916	(1.000)	2863889	40.0000	
$ 14 o-Terphenyl	230	6.168	6.168	(1.043)	2145891	50.0000	51.1382(A)
* 18 Chrysene-d12	240	7.868	7.868	(1.000)	3447806	40.0000	
* 23 Perylene-d12	264	9.115	9.115	(1.000)	3425001	40.0000	
2 Naphthalene	128	3.880	3.880	(1.003)	2683662	50.0000	51.5260(A)
3 2-Methylnaphthalene	142	4.310	4.310	(1.114)	1715115	50.0000	50.6441(A)
4 1-Methylnaphthalene	142	4.369	4.369	(1.129)	1642265	50.0000	53.3190(A)
5 Acenaphthylene	152	4.869	4.869	(0.982)	3143102	50.0000	52.0699(A)
7 Acenaphthene	154	4.974	4.974	(1.004)	1826987	50.0000	48.2578
9 Fluorene	166	5.298	5.298	(1.069)	2448772	50.0000	50.3886(A)
11 Phenanthrene	178	5.933	5.933	(1.003)	3980821	50.0000	46.5673
12 Anthracene	178	5.963	5.963	(1.008)	4020655	50.0000	52.2031(A)
13 Carbazole	167	6.074	6.074	(1.027)	3531798	50.0000	52.7916(A)
15 Fluoranthene	202	6.774	6.774	(1.145)	4473693	50.0000	53.5573(A)
16 Pyrene	202	6.945	6.945	(0.883)	4789001	50.0000	52.1740(A)
17 Benzo(a)anthracene	228	7.862	7.862	(0.999)	4538204	50.0000	47.7313
19 Chrysene	228	7.892	7.892	(1.003)	4663655	50.0000	47.4863
20 Benzo(b)fluoranthene	252	8.745	8.745	(0.959)	4834833	50.0000	57.5782(A)
21 Benzo(k)fluoranthene	252	8.768	8.768	(0.962)	4750961	50.0000	51.3578(A)
22 Benzo(a)pyrene	252	9.056	9.056	(0.994)	4467973	50.0000	55.9181(A)
24 Indeno(1,2,3-cd)pyrene	276	10.374	10.374	(1.138)	3772962	50.0000	55.5680(AM)
25 Dibenzo(a,h)anthracene	278	10.392	10.392	(1.140)	3909634	50.0000	54.0220(A)
26 Benzo(g,h,i)perylene	276	10.762	10.762	(1.181)	4151782	50.0000	53.2574(A)

QC Flag Legend

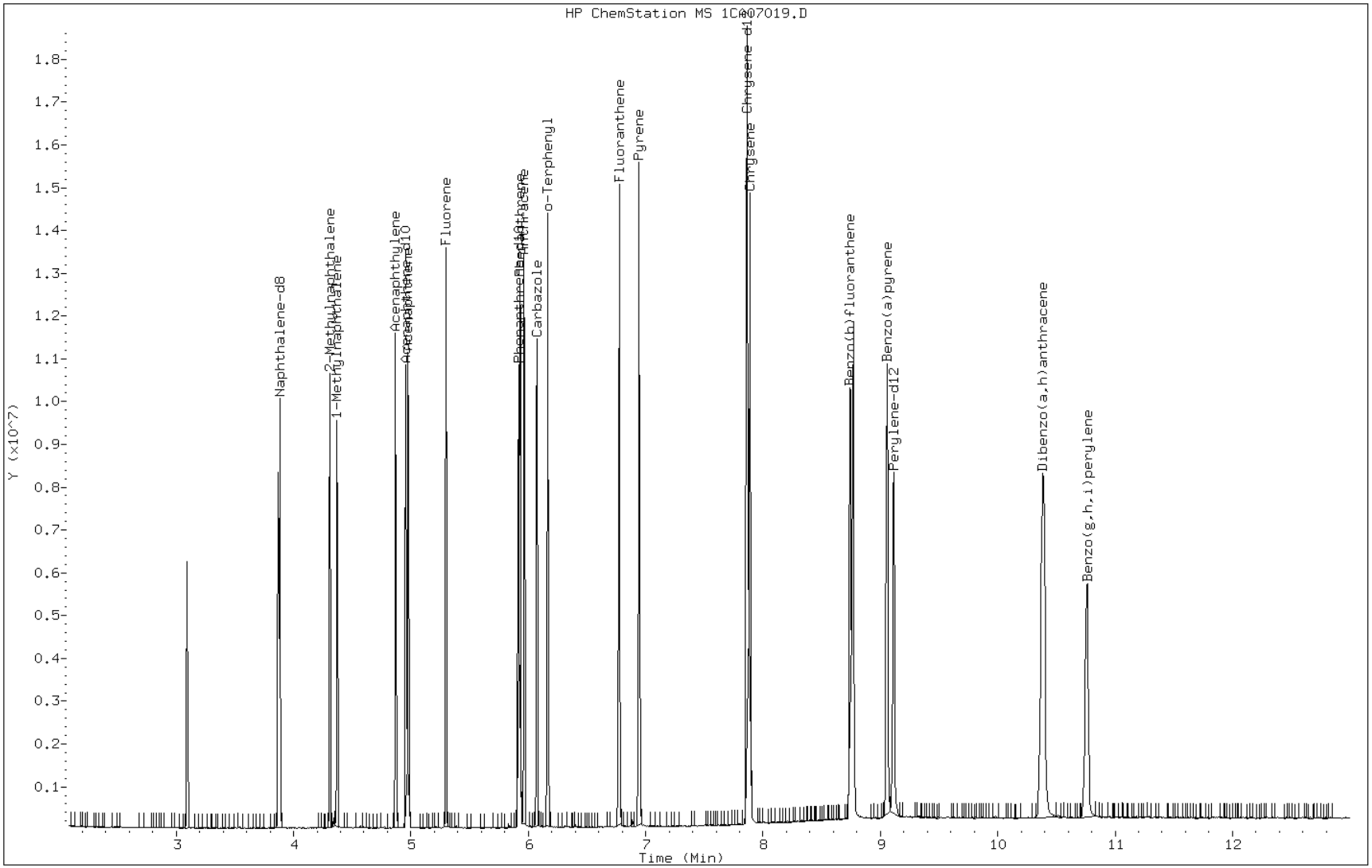
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: 1CA07019.D

Date: 07-JAN-2013 17:13

Client ID: Instrument: BSMC5973.i

Sample Info: IC-1489900 Operator: SCC



Manual Integration Report

Data File: 1CA07019.D
Inj. Date and Time: 07-JAN-2013 17:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 01/08/2013

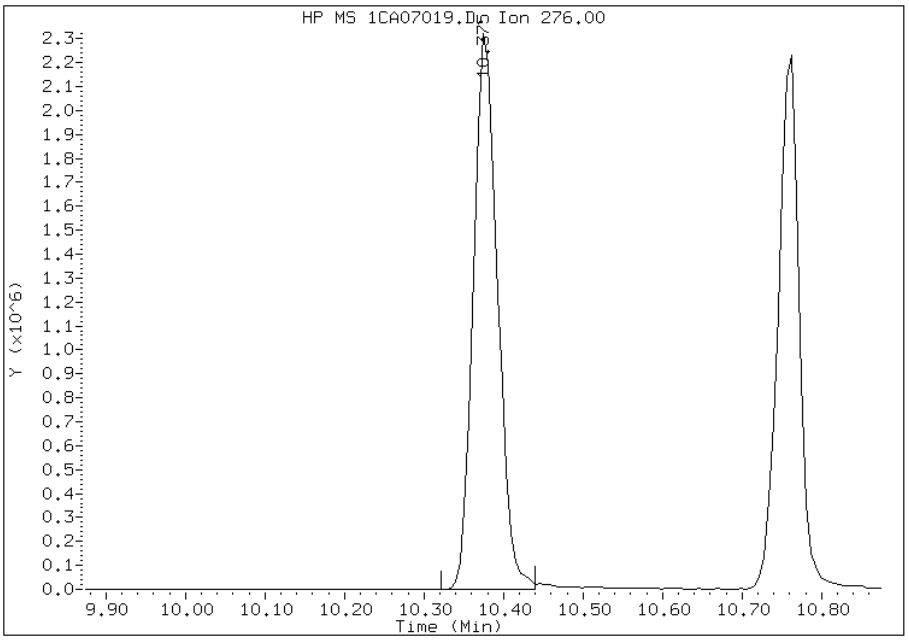
Processing Integration Results

RT: 10.37

Response: 4872897

Amount: 57

Conc: 57



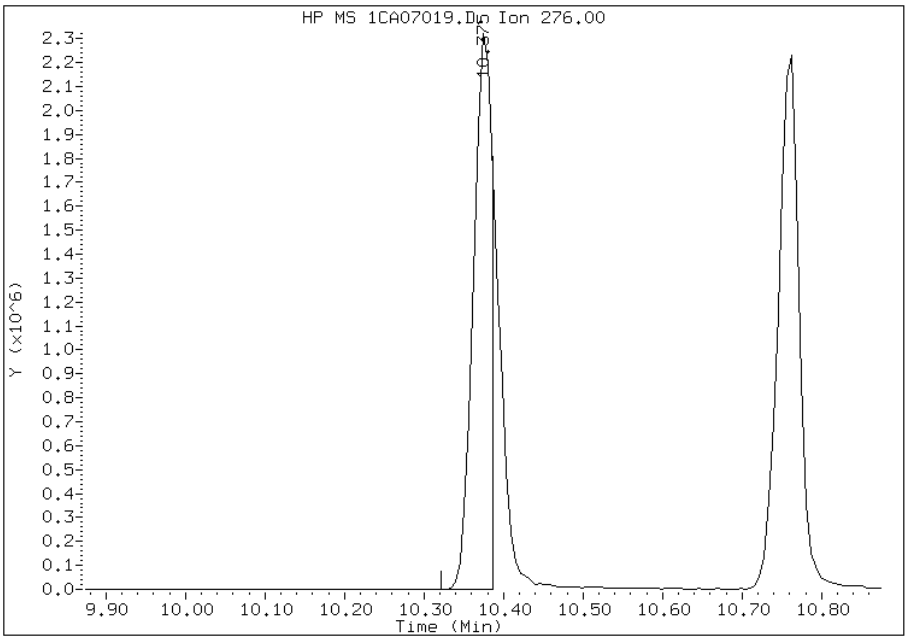
Manual Integration Results

RT: 10.37

Response: 3772962

Amount: 56

Conc: 56



Manually Integrated By: cantins
Modification Date: 08-Jan-2013 12:40
Manual Integration Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

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

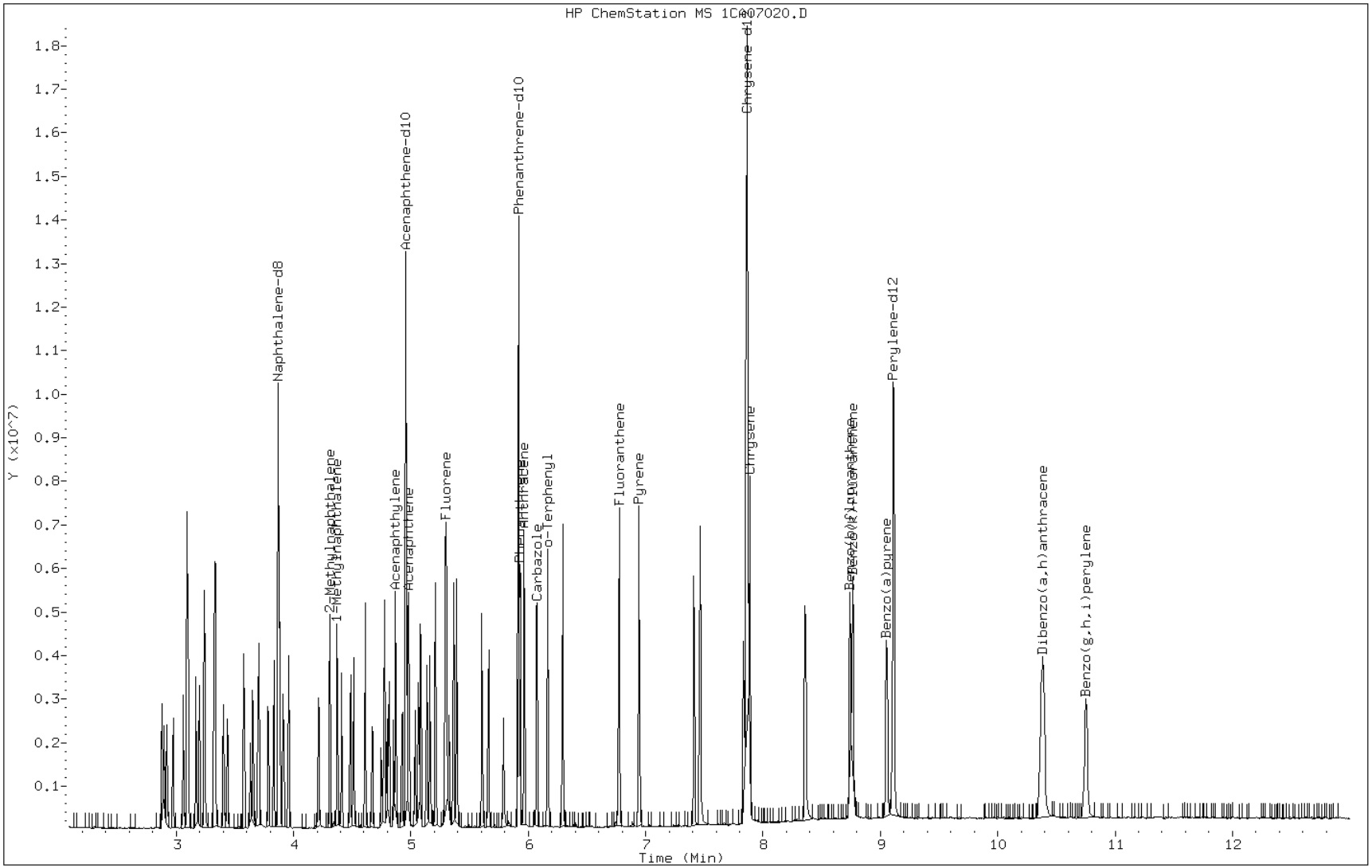
Date: 07-JAN-2013 17:31

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

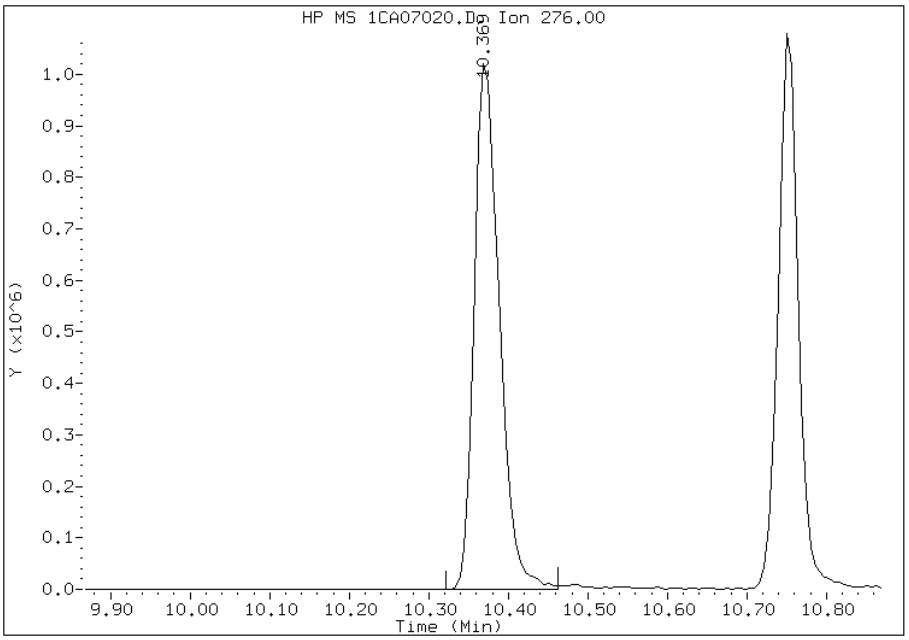
Processing Integration Results

RT: 10.37

Response: 2215563

Amount: 23

Conc: 23



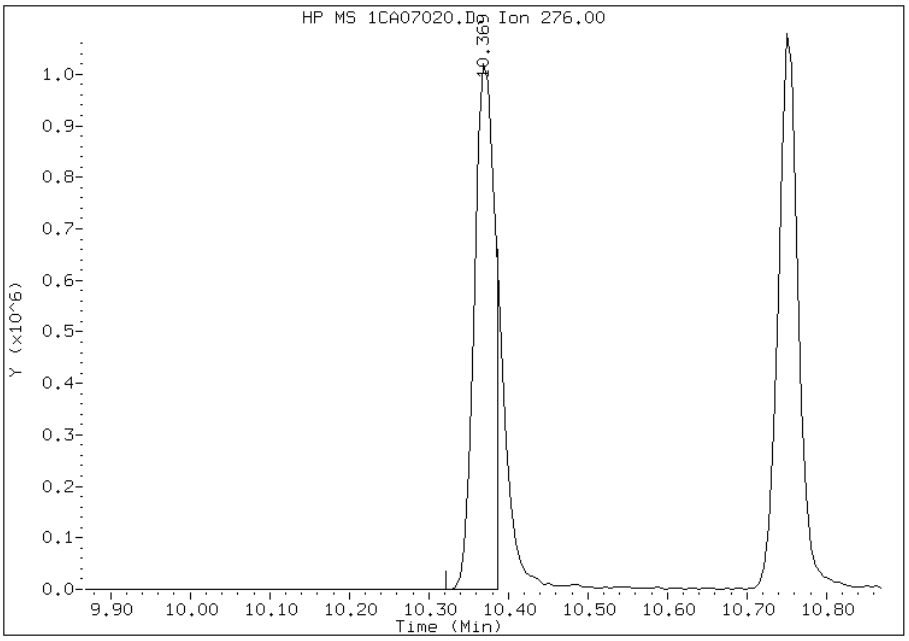
Manual Integration Results

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.: 680-87218-1

SDG No.: 68087218-1

Lab Sample ID: CCVIS 660-134444/6 Calibration Date: 02/13/2013 11:54

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: 1CB13006.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.048	0.0000	19800	20000	-1.1	20.0
2-Methylnaphthalene	Ave	0.6892	0.6796	0.0000	19700	20000	-1.4	20.0
1-Methylnaphthalene	Ave	0.6268	0.6522	0.0000	20800	20000	4.0	20.0
Acenaphthylene	Ave	1.591	1.598	0.0000	20100	20000	0.4	20.0
Acenaphthene	Ave	0.998	0.9644	0.0000	19300	20000	-3.4	20.0
Fluorene	Ave	1.281	1.191	0.0000	18600	20000	-7.0	20.0
Phenanthrene	Ave	1.194	1.096	0.0000	18400	20000	-8.2	20.0
Anthracene	Ave	1.076	1.113	0.0000	20700	20000	3.4	20.0
Carbazole	Ave	0.9344	0.9748	0.0000	20900	20000	4.3	20.0
Fluoranthene	Ave	1.167	1.244	0.0000	21300	20000	6.6	20.0
Pyrene	Ave	1.065	1.085	0.0000	20400	20000	1.9	20.0
Benzo[a]anthracene	Ave	1.103	1.047	0.0000	19000	20000	-5.1	20.0
Chrysene	Ave	1.139	1.083	0.0000	19000	20000	-4.9	20.0
Benzo[b]fluoranthene	Ave	0.9807	1.052	0.0000	21500	20000	7.3	20.0
Benzo[k]fluoranthene	Ave	1.080	1.043	0.0000	19300	20000	-3.4	20.0
Benzo[a]pyrene	Ave	0.9332	0.997	0.0000	21400	20000	6.9	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.9125	0.0000	20400	20000	1.8	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8652	0.0000	20500	20000	2.4	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.9521	0.0000	20900	20000	4.6	20.0
o-Terphenyl	Ave	0.5861	0.5870	0.0000	20000	20000	0.2	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13006.D
Lab Smp Id: CCVIS-1489898
Inj Date : 13-FEB-2013 11:54
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 6 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	3.821	3.821	(1.000)	2187818	40.0000	(H)
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1703722	40.0000	(H)
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3176132	40.0000	(H)
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	932207	20.0000	20.0312(H)
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3998176	40.0000	(H)
* 23 Perylene-d12	264	9.039	9.039	(1.000)	4169096	40.0000	(H)
2 Naphthalene	128	3.833	3.833	(1.003)	1146370	20.0000	19.7737(H)
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	743432	20.0000	19.7216(H)
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	713433	20.0000	20.8093(H)
5 Acenaphthylene	152	4.821	4.821	(0.982)	1360980	20.0000	20.0790(H)
7 Acenaphthene	154	4.927	4.927	(1.004)	821525	20.0000	19.3247(H)
9 Fluorene	166	5.251	5.251	(1.069)	1014815	20.0000	18.5965(H)
11 Phenanthrene	178	5.880	5.880	(1.003)	1740415	20.0000	18.3577(H)
12 Anthracene	178	5.915	5.915	(1.009)	1766775	20.0000	20.6841(H)
13 Carbazole	167	6.021	6.021	(1.027)	1548027	20.0000	20.8643(H)
15 Fluoranthene	202	6.721	6.721	(1.146)	1975056	20.0000	21.3201(H)
16 Pyrene	202	6.892	6.892	(0.882)	2169514	20.0000	20.3822(H)
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	2092812	20.0000	18.9815(H)
19 Chrysene	228	7.833	7.833	(1.002)	2165501	20.0000	19.0143(H)
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	2193430	20.0000	21.4594(H)
21 Benzo(k)fluoranthene	252	8.698	8.698	(0.962)	2175003	20.0000	19.3154(H)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	2078955	20.0000	21.3750(H)
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.135)	1902177	20.0000	20.3621(MH)
25 Dibenzo(a,h)anthracene	278	10.280	10.280	(1.137)	1803559	20.0000	20.4731(H)
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.176)	1984601	20.0000	20.9140(H)

QC Flag Legend

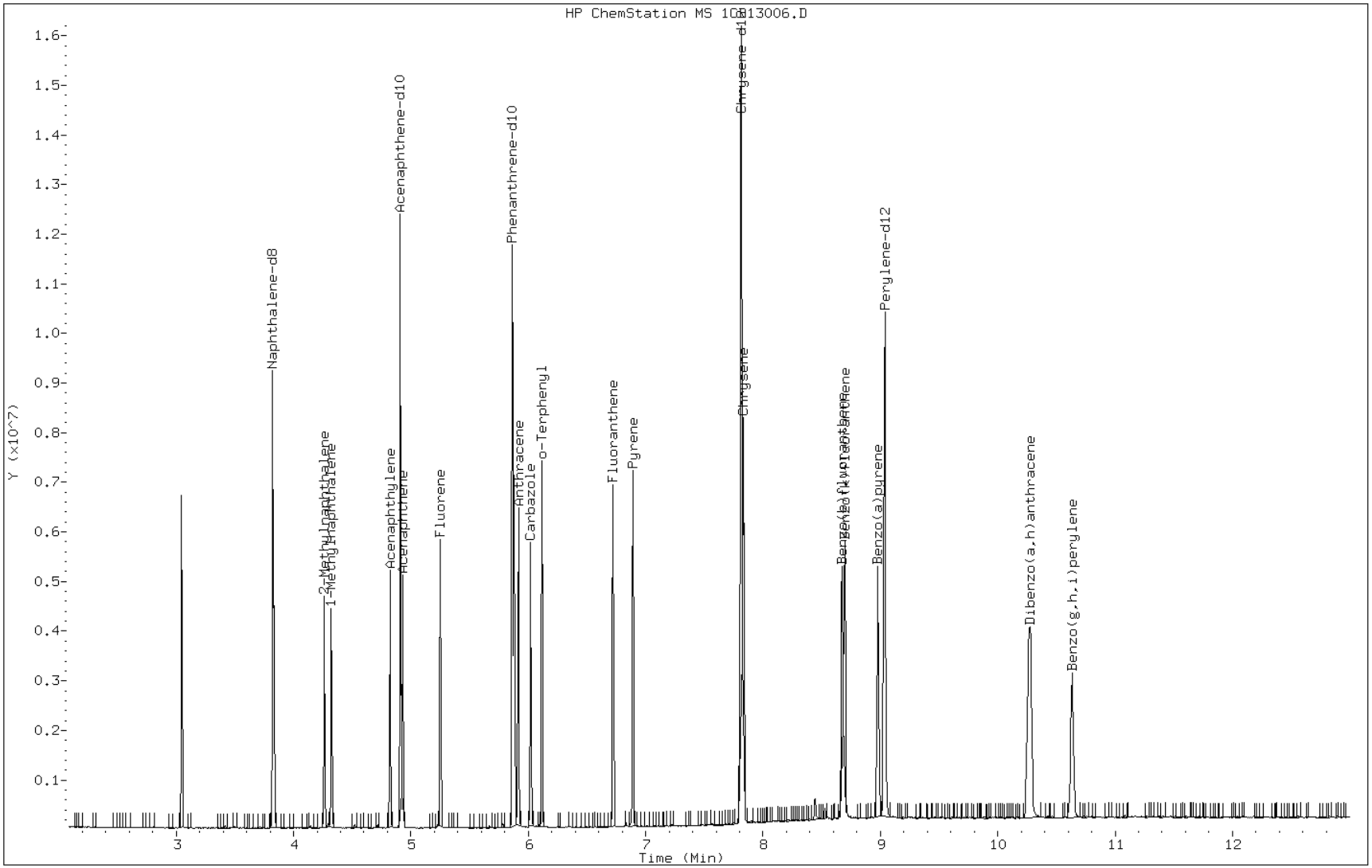
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB13006.D

Date: 13-FEB-2013 11:54

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CB13006.D
Inj. Date and Time: 13-FEB-2013 11:54
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/13/2013

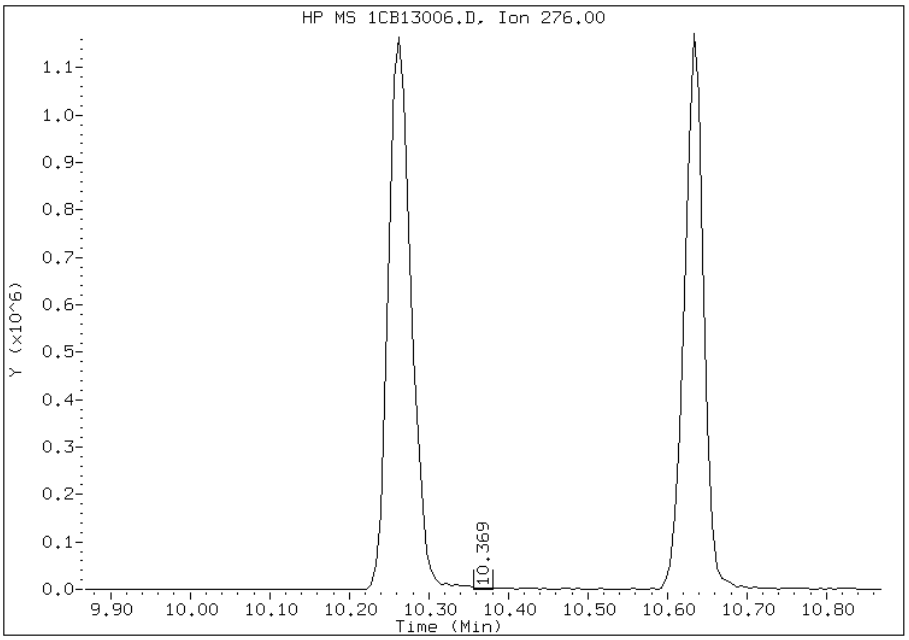
Processing Integration Results

RT: 10.37

Response: 4049

Amount: 0

Conc: 0



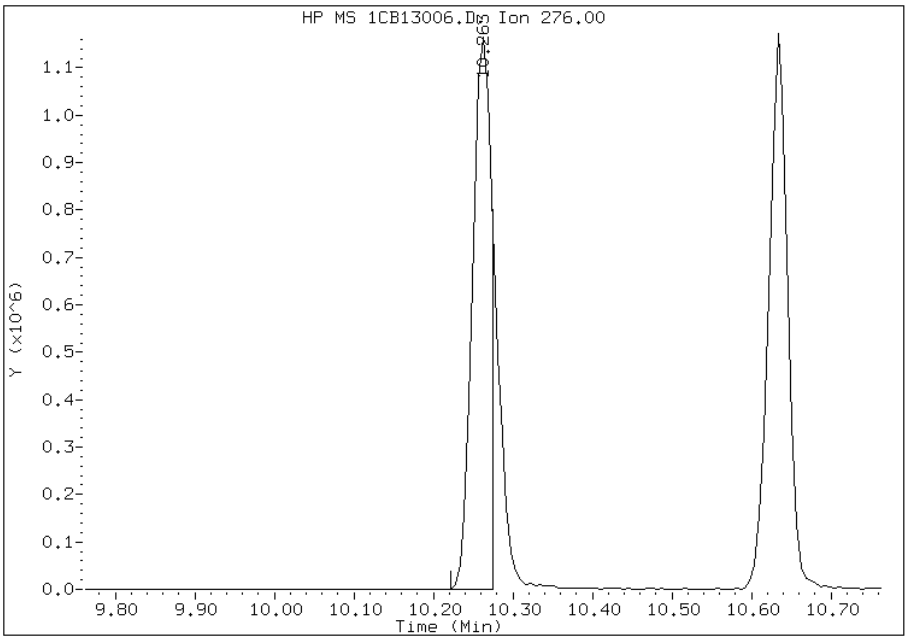
Manual Integration Results

RT: 10.26

Response: 1902177

Amount: 20

Conc: 20



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

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Lab Sample ID: CCVIS 660-134493/3 Calibration Date: 02/14/2013 14:56

Instrument ID: BSMC5973 Calib Start Date: 01/07/2013 15:23

GC Column: DB-5MS ID: 250.00(um) Calib End Date: 01/07/2013 17:13

Lab File ID: 1CB14003.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.060	1.044	0.0000	19700	20000	-1.5	20.0
2-Methylnaphthalene	Ave	0.6892	0.6588	0.0000	19100	20000	-4.4	20.0
1-Methylnaphthalene	Ave	0.6268	0.6348	0.0000	20300	20000	1.3	20.0
Acenaphthylene	Ave	1.591	1.622	0.0000	20400	20000	1.9	20.0
Acenaphthene	Ave	0.998	0.9484	0.0000	19000	20000	-5.0	20.0
Fluorene	Ave	1.281	1.237	0.0000	19300	20000	-3.5	20.0
Phenanthrene	Ave	1.194	1.063	0.0000	17800	20000	-10.9	20.0
Anthracene	Ave	1.076	1.071	0.0000	19900	20000	-0.4	20.0
Carbazole	Ave	0.9344	0.9557	0.0000	20500	20000	2.3	20.0
Fluoranthene	Ave	1.167	1.244	0.0000	21300	20000	6.6	20.0
Pyrene	Ave	1.065	1.057	0.0000	19900	20000	-0.7	20.0
Benzo[a]anthracene	Ave	1.103	1.060	0.0000	19200	20000	-3.9	20.0
Chrysene	Ave	1.139	1.048	0.0000	18400	20000	-8.1	20.0
Benzo[b]fluoranthene	Ave	0.9807	1.002	0.0000	20400	20000	2.2	20.0
Benzo[k]fluoranthene	Ave	1.080	1.049	0.0000	19400	20000	-2.9	20.0
Benzo[a]pyrene	Ave	0.9332	0.9945	0.0000	21300	20000	6.6	20.0
Indeno[1,2,3-cd]pyrene	LinF	0.7930	0.9713	0.0000	21700	20000	8.4	20.0
Dibenz(a,h)anthracene	Ave	0.8452	0.8847	0.0000	20900	20000	4.7	20.0
Benzo[g,h,i]perylene	Ave	0.9104	0.9548	0.0000	21000	20000	4.9	20.0
o-Terphenyl	Ave	0.5861	0.5917	0.0000	20200	20000	1.0	20.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14003.D
Lab Smp Id: CCVIS-1489898
Inj Date : 14-FEB-2013 14:56
Operator : SCC Inst ID: BSMC5973.i
Smp Info : CCVIS-1489898
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\a-bFASTPAHi-m.m
Meth Date : 14-Feb-2013 15:12 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: pah.sub
Target Version: 4.14
Processing Host: TAM1000

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2053022	40.0000	(H)
* 6 Acenaphthene-d10	164	4.909	4.909	(1.000)	1531446	40.0000	(H)
* 10 Phenanthrene-d10	188	5.862	5.862	(1.000)	2933515	40.0000	(H)
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	867880	20.0000	20.1913(H)
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3745630	40.0000	(H)
* 23 Perylene-d12	264	9.039	9.039	(1.000)	4029021	40.0000	(H)
2 Naphthalene	128	3.833	3.833	(1.003)	1071876	20.0000	19.7027(H)
3 2-Methylnaphthalene	142	4.257	4.257	(1.114)	676262	20.0000	19.1176(H)
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	651642	20.0000	20.2549(H)
5 Acenaphthylene	152	4.821	4.821	(0.982)	1242137	20.0000	20.3871(H)
7 Acenaphthene	154	4.927	4.927	(1.004)	726193	20.0000	19.0039(H)
9 Fluorene	166	5.251	5.251	(1.069)	947183	20.0000	19.3097(H)
11 Phenanthrene	178	5.880	5.880	(1.003)	1559815	20.0000	17.8135(H)
12 Anthracene	178	5.909	5.909	(1.008)	1571537	20.0000	19.9201(H)
13 Carbazole	167	6.015	6.015	(1.026)	1401844	20.0000	20.4567(H)
15 Fluoranthene	202	6.721	6.721	(1.146)	1823927	20.0000	21.3171(H)
16 Pyrene	202	6.886	6.886	(0.881)	1979931	20.0000	19.8553(H)
17 Benzo(a)anthracene	228	7.803	7.803	(0.998)	1984578	20.0000	19.2134(H)
19 Chrysene	228	7.833	7.833	(1.002)	1961932	20.0000	18.3883(H)
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	2018946	20.0000	20.4391(H)
21 Benzo(k)fluoranthene	252	8.697	8.697	(0.962)	2113355	20.0000	19.4204(H)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	2003418	20.0000	21.3144(H)
24 Indeno(1,2,3-cd)pyrene	276	10.268	10.268	(1.136)	1956614	20.0000	21.6730(MH)
25 Dibenzo(a,h)anthracene	278	10.286	10.286	(1.138)	1782225	20.0000	20.9342(H)
26 Benzo(g,h,i)perylene	276	10.639	10.639	(1.177)	1923505	20.0000	20.9749(H)

QC Flag Legend

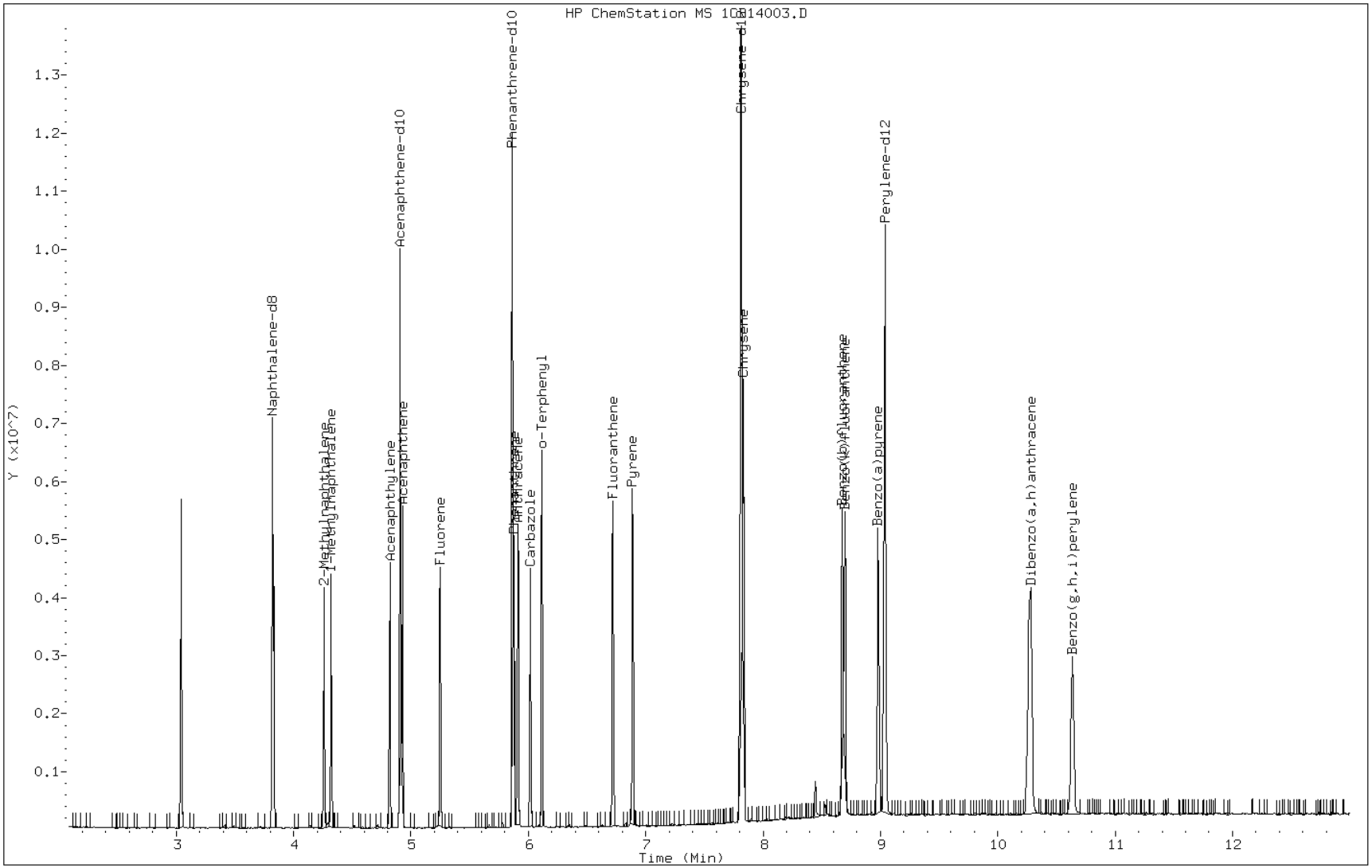
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: 1CB14003.D

Date: 14-FEB-2013 14:56

Client ID: Instrument: BSMC5973.i

Sample Info: CCVIS-1489898 Operator: SCC



Manual Integration Report

Data File: 1CB14003.D
Inj. Date and Time: 14-FEB-2013 14:56
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

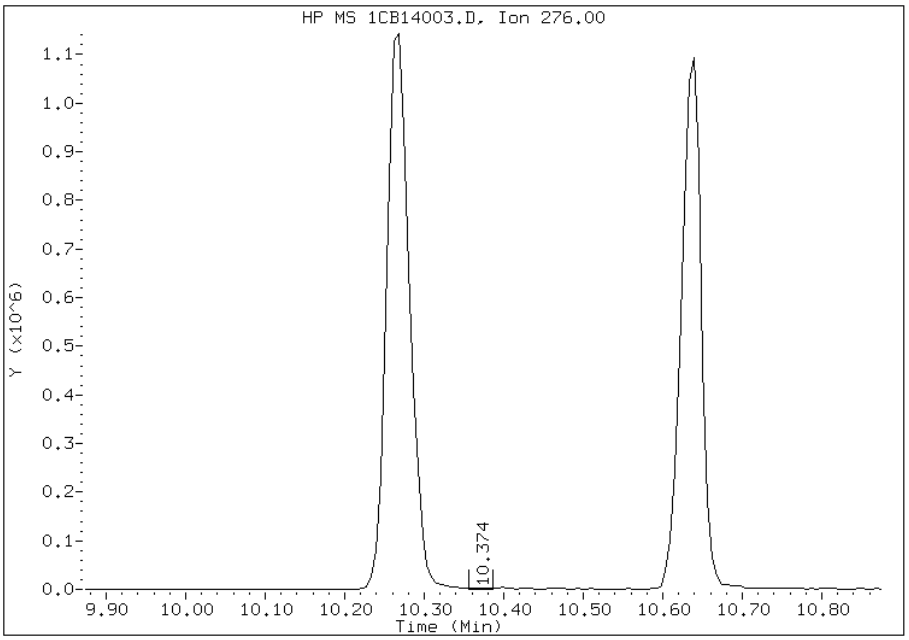
Processing Integration Results

RT: 10.37

Response: 4460

Amount: 0

Conc: 0



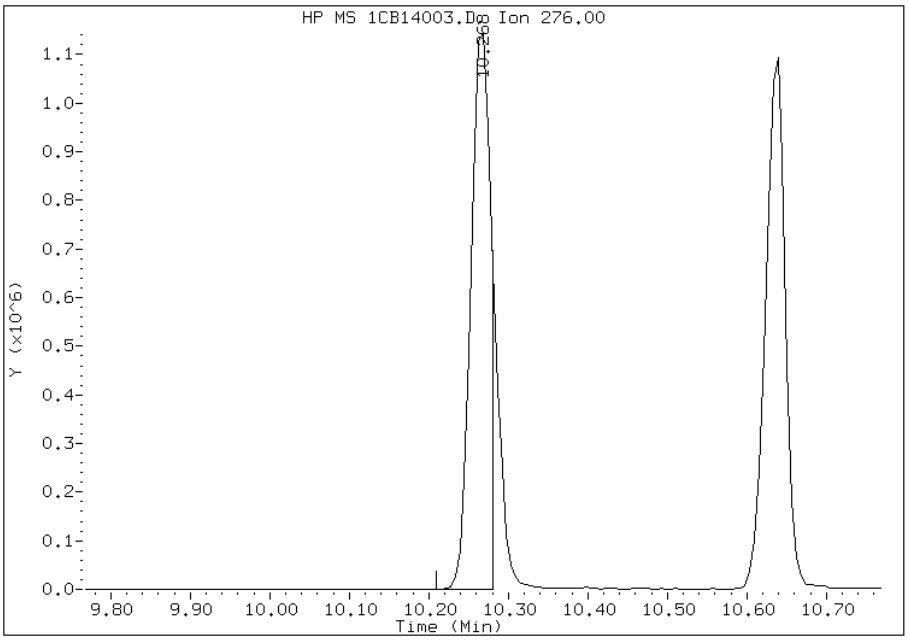
Manual Integration Results

RT: 10.27

Response: 1956614

Amount: 22

Conc: 22



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 15:13
Manual Integration Reason: Split Peak

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 07-JAN-2013 11:23
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\c-dftpp198.m
Meth Date : 24-Sep-2012 11:04 cantins Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: TAM1000

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.469	7.763	-0.294	198	127120			50.00- 0.00	100.00
7.469	7.763	-0.294	51	41280			10.00- 80.00	32.47
7.469	7.763	-0.294	68	533			0.00- 2.00	1.05
7.469	7.763	-0.294	69	50672			0.00- 0.00	39.86
7.469	7.763	-0.294	70	529			0.00- 2.00	1.04
7.469	7.763	-0.294	127	59544			10.00- 80.00	46.84
7.469	7.763	-0.294	197	1231			0.00- 2.00	0.97
7.469	7.763	-0.294	442	114480			50.00- 0.00	90.06
7.469	7.763	-0.294	199	7870			5.00- 9.00	6.19
7.469	7.763	-0.294	275	29224			10.00- 60.00	22.99
7.469	7.763	-0.294	365	3930			1.00- 0.00	3.09
7.469	7.763	-0.294	441	16880			0.01- 99.99	77.01
7.469	7.763	-0.294	443	21920			15.00- 24.00	19.15

Data File: 1CA07002.D

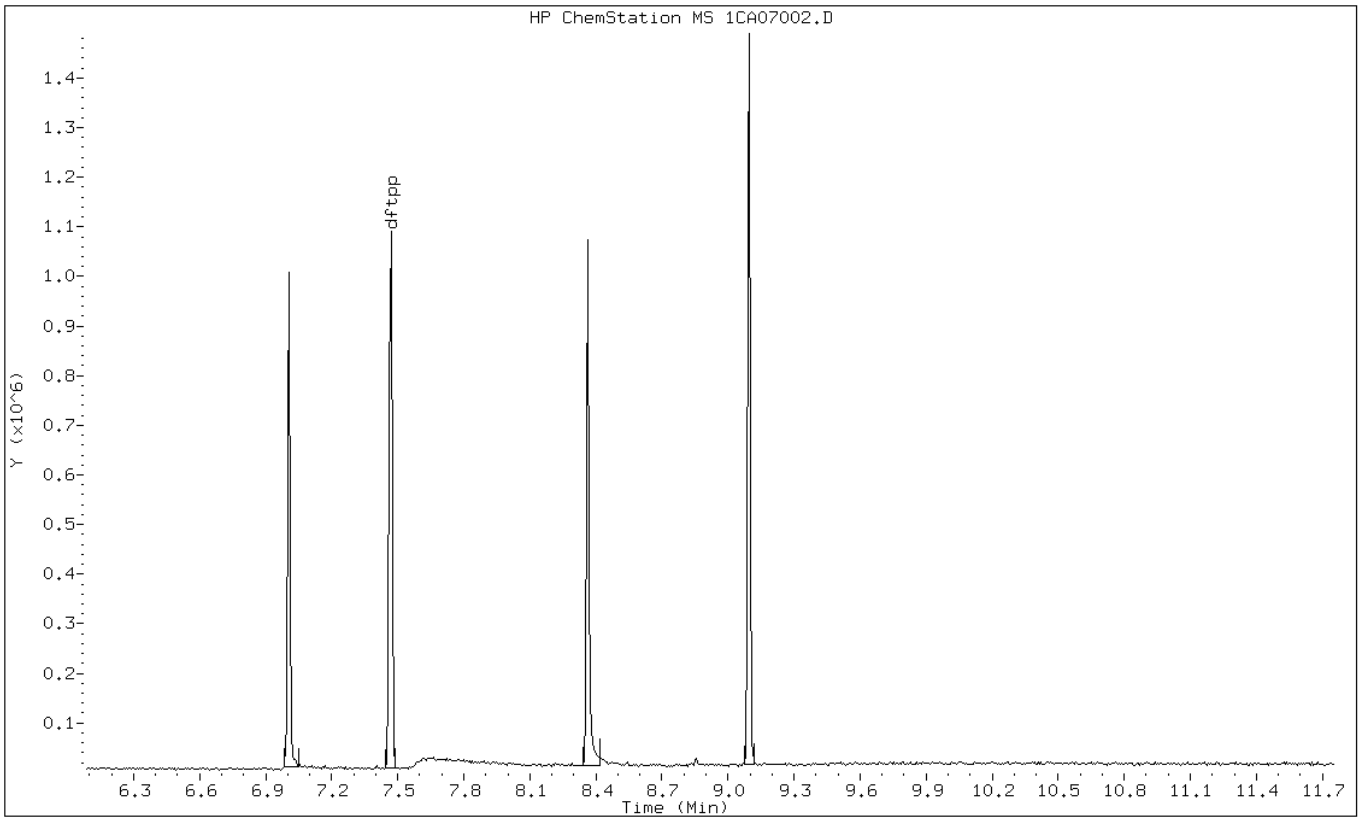
Date: 07-JAN-2013 11:23

Client ID: DFTPP

Instrument: BSMC5973.i

Sample Info: DFTPP-1490607

Operator: SCC



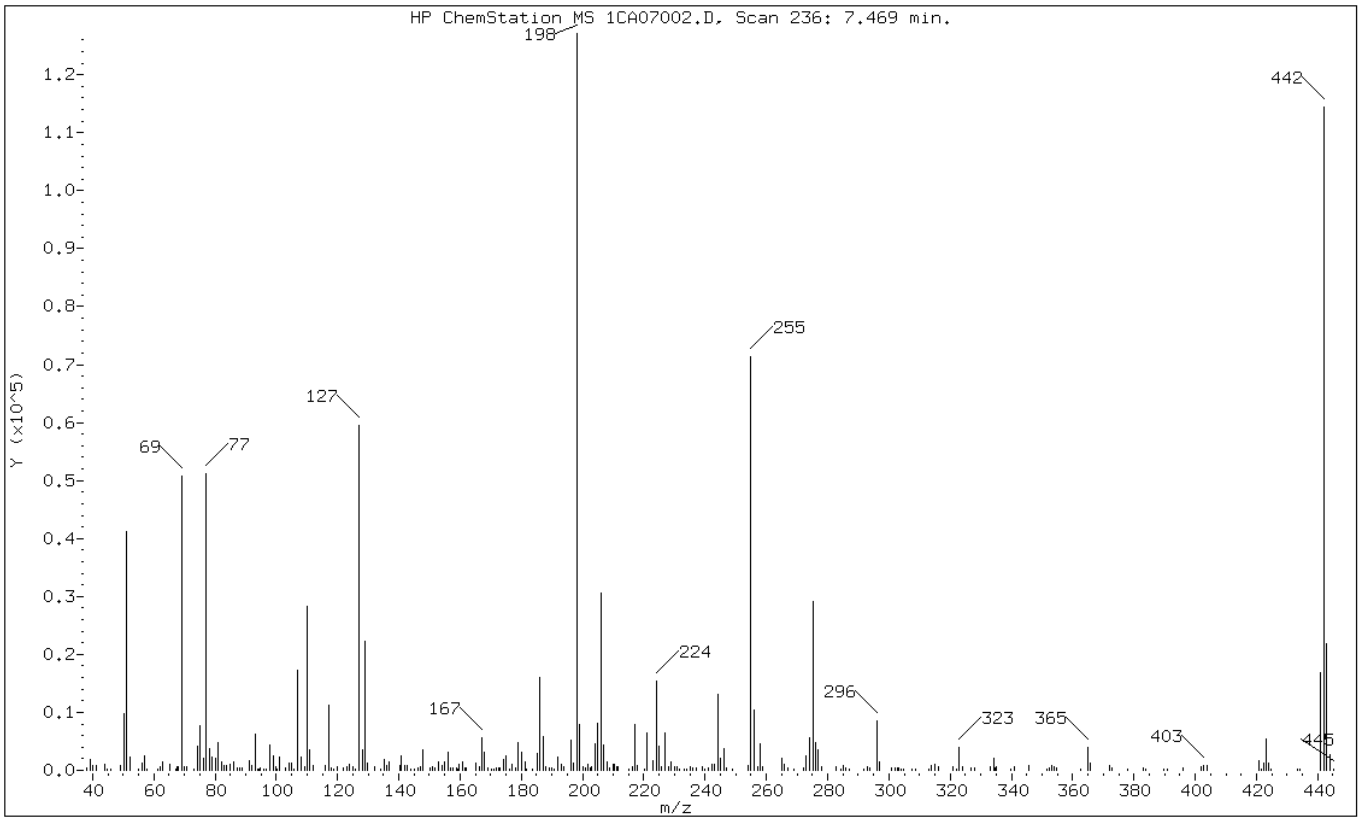
Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	32.47
68	Less than 2.00% of mass 69	0.42 (1.05)
69	Mass 69 relative abundance	39.86
70	Less than 2.00% of mass 69	0.42 (1.04)
127	10.00 - 80.00% of mass 198	46.84
197	Less than 2.00% of mass 198	0.97
442	Greater than 50.00% of mass 198	90.06
199	5.00 - 9.00% of mass 198	6.19
275	10.00 - 60.00% of mass 198	22.99
365	Greater than 1.00% of mass 198	3.09
441	Present, but less than mass 443	13.28
443	15.00 - 24.00% of mass 442	17.24 (19.15)

Data File: 1CA07002.D

Date: 07-JAN-2013 11:23

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C010713.b\1CA07002.D
Spectrum: HP ChemStation MS 1CA07002.D, Scan 236: 7.469 min.
Location of Maximum: 198.00
Number of points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	420	119.90	601	196.10	5188	285.10	914
39.10	1782	121.80	475	197.10	1231	286.00	390
40.00	839	123.00	633	198.00	127120	287.10	179
41.10	859	124.00	937	199.00	7870	291.80	160
44.10	1108	125.00	669	200.10	670	293.00	589
44.90	152	125.90	258	200.90	482	293.90	453
45.90	156	127.10	59544	201.60	949	296.00	8526
49.00	871	128.10	3506	202.40	400	297.00	1368
50.10	9842	129.10	22208	203.00	538	300.70	479
51.10	41280	129.90	1266	204.00	4533	302.10	418
52.10	2357	132.10	617	205.00	8018	302.90	472
55.00	276	134.10	298	206.10	30592	303.30	414
56.00	1192	135.20	1953	207.00	4423	304.00	250
57.00	2442	136.10	890	208.00	1503	304.90	167
57.90	185	137.00	1425	208.80	471	307.70	155
61.30	188	140.20	914	210.00	937	308.80	244
62.00	685	140.90	2482	210.50	1006	313.00	279
63.00	1392	141.90	797	211.00	696	313.90	813
65.10	1132	142.90	864	211.60	536	315.00	1012
67.10	153	144.10	161	215.00	234	316.00	692
67.70	533	145.10	150	216.10	583	321.00	591
68.10	627	146.20	391	217.00	7970	322.00	171
69.10	50672	147.10	718	217.90	767	323.00	3997
70.10	529	148.00	3470	220.10	248	324.00	655
70.80	521	150.20	424	221.10	6401	327.00	413
73.10	282	151.00	649	222.80	1599	328.10	455
74.10	4253	151.80	327	224.10	15340	333.00	681
75.10	7783	153.00	1468	225.10	4235	334.10	2080
76.20	2092	154.10	806	225.90	587	334.80	423
77.10	51200	155.00	1543	227.00	6494	335.20	609
78.10	3708	156.00	3046	228.00	644	339.70	262
79.10	2279	156.90	385	228.90	1504	341.10	544
80.00	1989	157.80	369	230.00	552	345.80	748
81.00	4740	158.70	485	230.90	613	351.50	280
82.00	1539	159.20	191	231.70	188	352.30	428
82.90	800	159.80	1069	233.10	217	353.10	740
83.90	857	161.00	1449	234.00	303	354.00	654
85.00	1057	161.70	319	235.00	716	354.70	475
86.10	1480	162.10	352	235.90	363	362.50	264
87.10	445	165.00	1236	237.10	461	365.00	3930

87.90	375	166.20	671
89.00	333	167.00	5703
91.10	1642	168.00	3193
91.90	746	169.00	422
93.10	6202	170.10	237
93.80	300	171.00	275
94.20	188	171.90	443
94.80	488	172.80	465
96.10	190	173.10	403
96.90	185	174.20	1825
98.00	4388	175.10	2490
99.00	2420	176.00	265
99.70	568	176.80	966
100.20	212	178.00	357
101.10	2275	179.00	4862
103.00	381	180.10	3189
104.00	1148	181.10	1541
105.00	1192	181.80	286
105.80	271	183.60	157
107.00	17216	185.10	2863
108.00	2207	186.10	15999
109.20	723	187.10	5787
110.00	28384	188.10	556
111.00	3607	189.20	469
112.10	771	190.10	335
116.00	796	190.60	276
117.00	11205	192.00	2219
118.00	466	193.00	1058
118.90	198	194.00	556

238.90	530	365.90	1347
239.70	227	372.00	894
241.00	373	372.90	491
242.10	1013	378.00	155
243.10	1025	382.90	344
244.10	13028	383.80	260
245.00	2095	389.90	193
246.00	3792	391.00	205
247.10	451	396.00	313
249.10	154	402.00	707
253.90	895	402.90	932
255.00	71336	404.00	827
256.00	10460	421.00	1613
257.10	645	421.60	223
258.00	4542	422.20	1189
258.80	695	423.00	5417
264.90	2158	424.10	1194
266.00	1029	424.70	185
267.20	353	433.30	241
269.00	264	434.10	201
272.10	445	441.00	16880
273.10	2581	442.00	114480
274.00	5681	443.00	21920
275.10	29224	444.00	2789
276.00	4836	445.20	272
277.00	3605		
278.10	644		
282.80	642		
284.50	218		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 13-FEB-2013 10:17
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\c-dftpp198.m
Meth Date : 10-Feb-2013 14:42 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

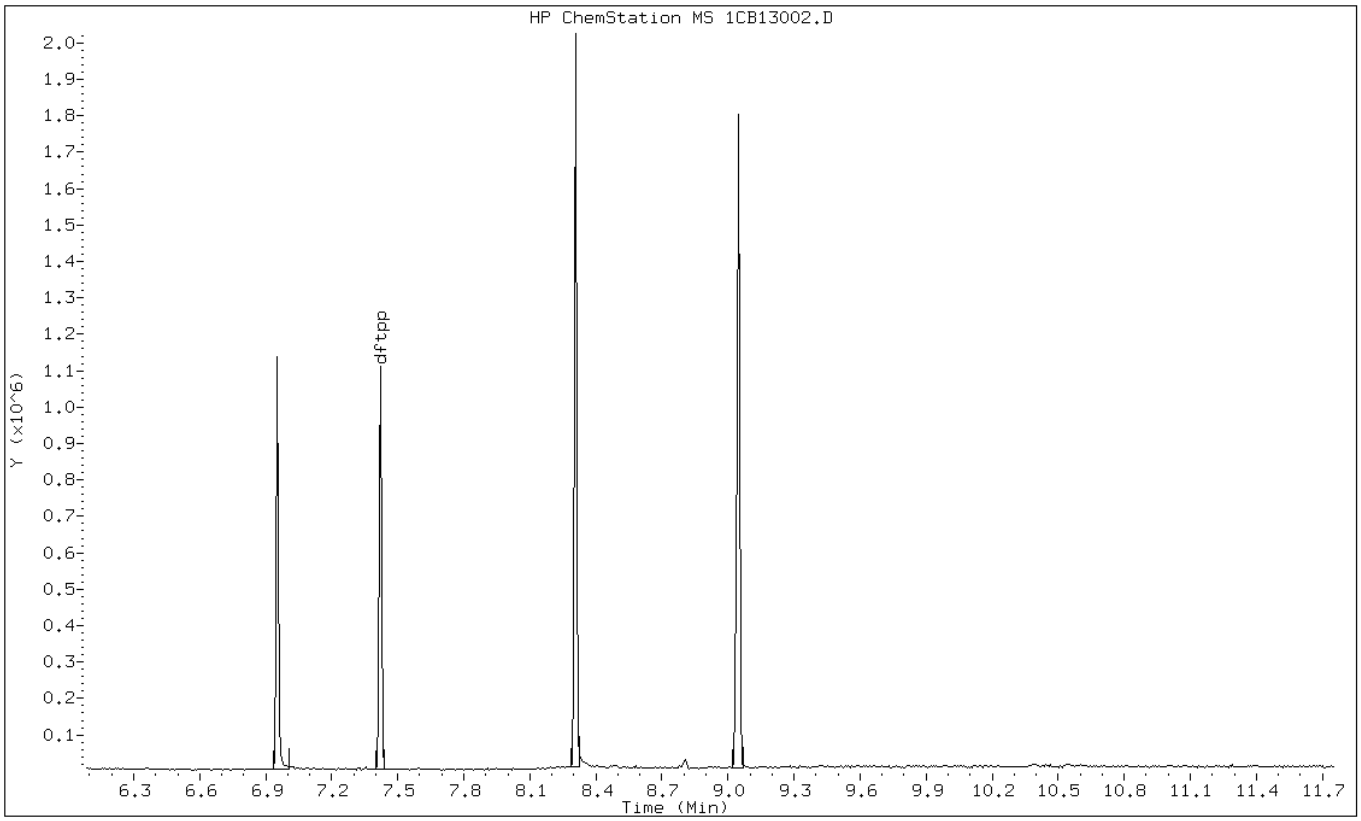
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.422	7.469	-0.047	198	129432			50.00- 0.00	100.00
7.422	7.469	-0.047	51	35736			10.00- 80.00	27.61
7.422	7.469	-0.047	68	583			0.00- 2.00	1.12
7.422	7.469	-0.047	69	51832			0.00- 0.00	40.05
7.422	7.469	-0.047	70	258			0.00- 2.00	0.50
7.422	7.469	-0.047	127	52024			10.00- 80.00	40.19
7.422	7.469	-0.047	197	0	0.0	0.0	0.00- 2.00	0.00
7.422	7.469	-0.047	442	122304			50.00- 0.00	94.49
7.422	7.469	-0.047	199	8398			5.00- 9.00	6.49
7.422	7.469	-0.047	275	32888			10.00- 60.00	25.41
7.422	7.469	-0.047	365	4348			1.00- 0.00	3.36
7.422	7.469	-0.047	441	17640			0.01- 99.99	66.70
7.422	7.469	-0.047	443	26448			15.00- 24.00	21.62

Data File: 1CB13002.D

Date: 13-FEB-2013 10:17

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



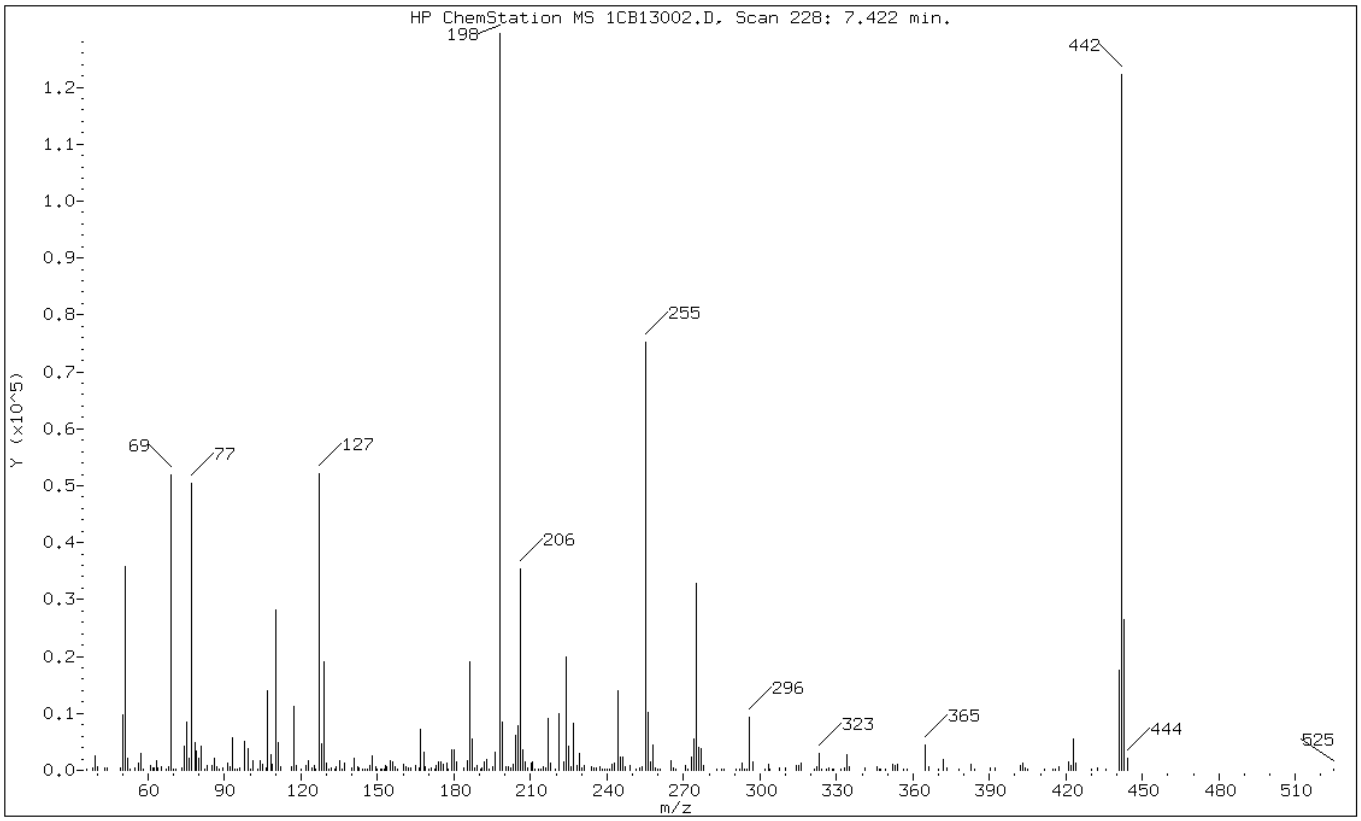
Data File: 1CB13002.D

Date: 13-FEB-2013 10:17

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	27.61
68	Less than 2.00% of mass 69	0.45 (1.12)
69	Mass 69 relative abundance	40.05
70	Less than 2.00% of mass 69	0.20 (0.50)
127	10.00 - 80.00% of mass 198	40.19
197	Less than 2.00% of mass 198	0.00
442	Greater than 50.00% of mass 198	94.49
199	5.00 - 9.00% of mass 198	6.49
275	10.00 - 60.00% of mass 198	25.41
365	Greater than 1.00% of mass 198	3.36
441	Present, but less than mass 443	13.63
443	15.00 - 24.00% of mass 442	20.43 (21.62)

Data File: 1CB13002.D

Date: 13-FEB-2013 10:17

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13002.D
Spectrum: HP ChemStation MS 1CB13002.D, Scan 228: 7.422 min.
Location of Maximum: 198.00
Number of points: 275

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	176	125.10	810	199.00	8398	286.10	165
38.20	330	125.70	193	200.20	599	290.60	271
39.10	2468	127.10	52024	201.30	727	292.00	189
40.00	538	128.10	4693	202.10	522	293.10	1301
43.00	344	129.00	18968	203.00	1049	294.00	217
43.90	454	130.00	1235	204.10	6173	294.70	186
49.20	330	130.90	182	205.00	7896	296.00	9336
50.10	9823	131.80	417	206.10	35336	297.00	1418
51.10	35736	133.10	207	207.00	3575	302.10	233
52.10	2133	133.90	589	208.00	1536	303.20	1162
53.10	168	135.10	1606	208.90	382	304.00	250
55.00	412	136.00	151	210.40	1330	307.60	337
56.00	1348	136.90	1217	210.90	1494	310.10	506
57.00	2957	140.00	373	211.80	225	314.10	772
58.00	182	140.90	2029	213.00	163	315.00	898
61.00	822	142.10	607	214.10	168	316.10	1260
62.00	354	142.90	418	215.10	622	321.40	227
62.30	345	143.90	263	215.90	526	322.10	600
63.10	1632	145.10	185	217.00	9009	323.10	3050
64.00	408	146.00	206	218.00	1301	324.20	242
65.00	677	146.90	782	219.90	171	326.00	240
67.20	228	148.00	2600	221.00	10043	327.00	510
67.90	583	149.10	563	222.80	1498	328.20	168
69.00	51832	150.00	228	224.00	19856	328.90	164
69.90	258	151.20	186	225.10	4151	331.70	156
70.90	241	151.80	277	226.00	607	333.00	327
73.00	398	152.50	160	227.00	8281	334.10	2739
74.10	4143	153.00	779	228.10	862	335.00	664
75.00	8513	153.80	596	229.00	2991	341.00	501
76.20	2132	155.10	1594	229.90	500	346.00	718
77.10	50400	156.10	1388	231.00	832	347.00	239
78.20	4781	157.00	658	233.90	537	347.50	170
79.00	3443	157.70	261	234.90	444	349.30	212
80.00	2151	160.00	970	235.80	492	352.00	1068
81.00	4178	161.00	562	237.10	680	353.00	860
82.10	309	162.00	443	238.10	314	354.00	1129
83.00	870	163.00	496	239.10	234	356.30	178
85.10	832	165.00	893	240.00	297	357.60	151
86.20	2022	166.10	416	241.00	205	365.00	4348
87.00	613	167.00	7275	242.00	1126	366.10	604

88.10	247	168.00	3166	243.00	1280	370.00	249
89.10	412	168.90	626	244.10	13891	371.90	1812
91.00	1262	170.00	242	245.10	2393	373.10	332
92.00	620	171.00	361	246.10	2382	378.20	261
93.00	5648	172.30	281	247.00	654	382.90	1099
94.10	306	173.10	952	248.90	781	384.00	164
94.90	174	173.90	1416	251.30	240	390.20	504
96.00	441	175.00	1433	253.00	383	392.00	390
98.00	5186	176.00	1024	253.70	727	402.00	821
99.10	3811	177.00	1185	255.00	75208	402.90	1175
100.10	224	177.90	188	256.00	10200	404.00	507
101.00	1632	179.00	3551	257.10	1429	405.20	194
102.90	317	180.00	3686	258.00	4523	411.70	259
104.00	1725	181.10	1523	259.00	514	415.10	181
104.90	1042	184.00	414	259.80	239	416.00	172
106.10	441	185.10	1761	261.00	150	417.10	530
107.00	14007	186.10	19120	265.00	1753	421.00	1565
108.00	2787	187.20	5461	265.90	511	422.20	845
108.90	1042	187.90	387	267.20	164	423.10	5560
110.00	28120	188.80	681	270.80	782	423.90	1222
111.10	4913	189.10	749	271.80	226	430.10	239
112.10	619	190.20	201	273.10	2264	432.20	411
116.00	734	191.00	405	274.00	5496	435.70	212
117.10	11238	192.00	1502	275.00	32888	441.00	17640
118.10	946	193.00	1975	276.10	4025	442.00	122304
120.10	257	193.90	259	276.90	3895	443.00	26448
122.00	881	195.00	551	278.00	906	444.00	2201
123.00	1597	196.00	3093	283.00	244	525.00	239
124.20	436	198.00	129432	285.00	232		

TestAmerica Laboratories

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14002.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 14-FEB-2013 14:34
Operator : SCC Inst ID: BSMC5973.i
Smp Info : DFTPP-1490607
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.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

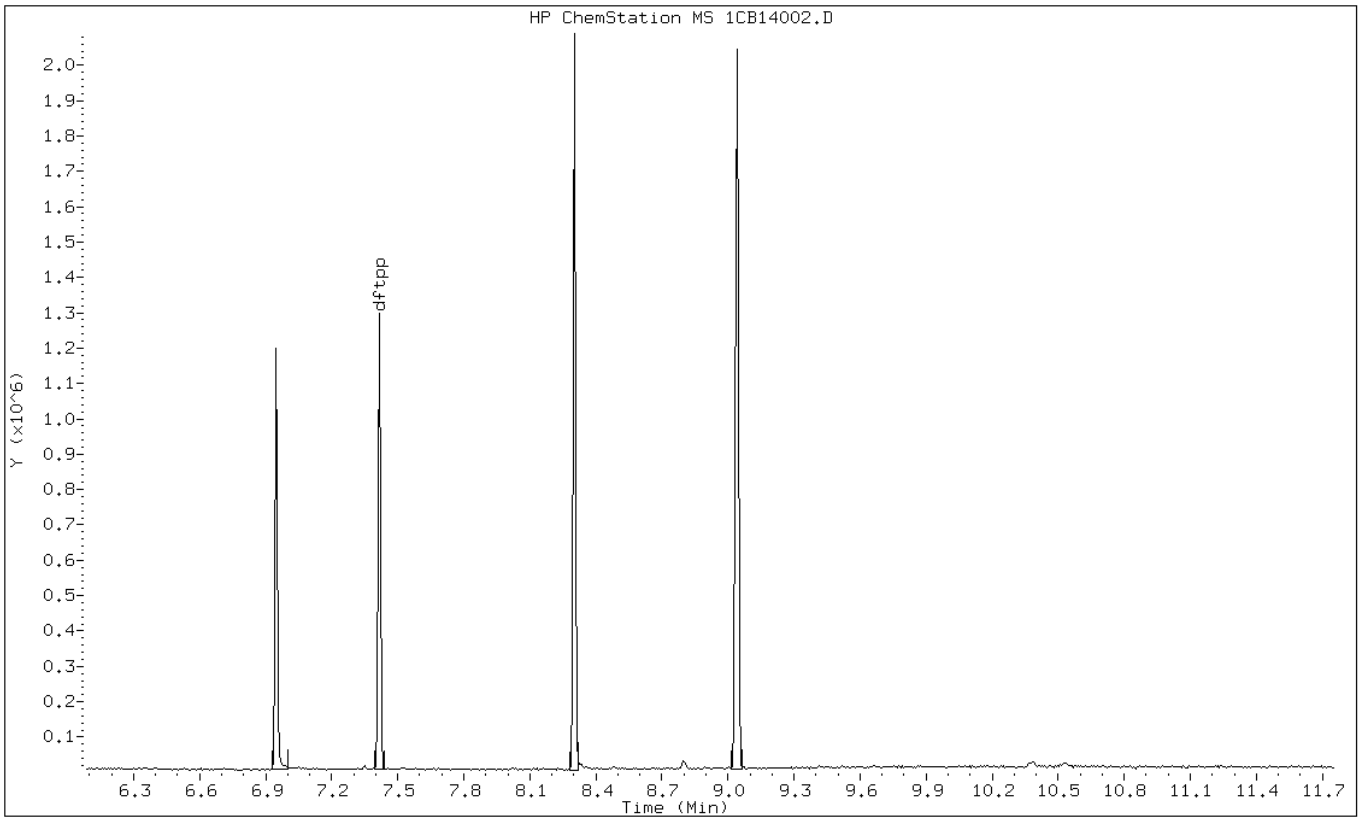
RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
7.416	7.469	-0.053	198	147136			50.00- 0.00	100.00
7.416	7.469	-0.053	51	43504			10.00- 80.00	29.57
7.416	7.469	-0.053	68	1232			0.00- 2.00	1.77
7.416	7.469	-0.053	69	69464			0.00- 0.00	47.21
7.416	7.469	-0.053	70	657			0.00- 2.00	0.95
7.416	7.469	-0.053	127	65264			10.00- 80.00	44.36
7.416	7.469	-0.053	197	1264			0.00- 2.00	0.86
7.416	7.469	-0.053	442	134592			50.00- 0.00	91.47
7.416	7.469	-0.053	199	9949			5.00- 9.00	6.76
7.416	7.469	-0.053	275	36416			10.00- 60.00	24.75
7.416	7.469	-0.053	365	4730			1.00- 0.00	3.21
7.416	7.469	-0.053	441	19448			0.01- 99.99	71.14
7.416	7.469	-0.053	443	27336			15.00- 24.00	20.31

Data File: 1CB14002.D

Date: 14-FEB-2013 14:34

Client ID: DFTPP | Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 | Operator: SCC



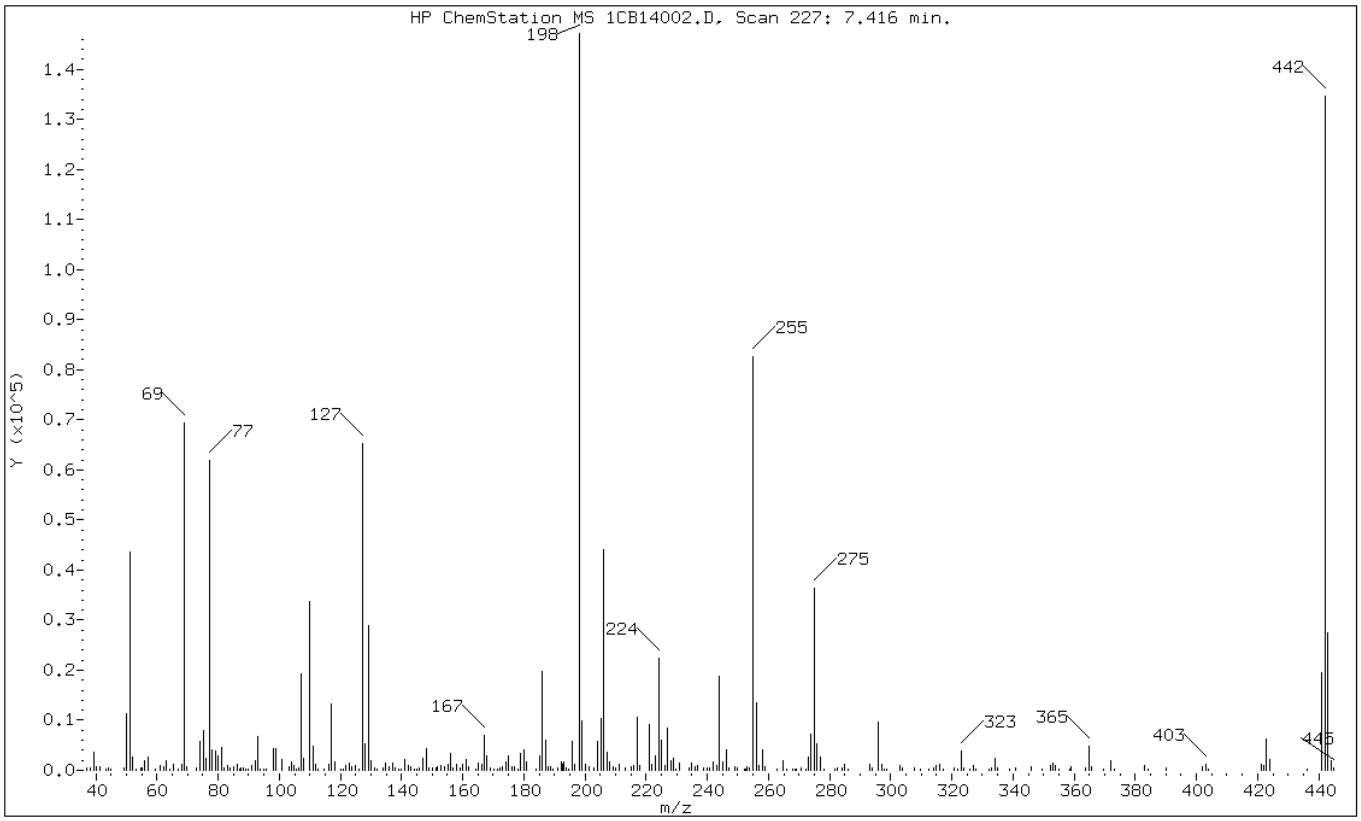
Data File: 1CB14002.D

Date: 14-FEB-2013 14:34

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	29.57
68	Less than 2.00% of mass 69	0.84 (1.77)
69	Mass 69 relative abundance	47.21
70	Less than 2.00% of mass 69	0.45 (0.95)
127	10.00 - 80.00% of mass 198	44.36
197	Less than 2.00% of mass 198	0.86
442	Greater than 50.00% of mass 198	91.47
199	5.00 - 9.00% of mass 198	6.76
275	10.00 - 60.00% of mass 198	24.75
365	Greater than 1.00% of mass 198	3.21
441	Present, but less than mass 443	13.22
443	15.00 - 24.00% of mass 442	18.58 (20.31)

Data File: 1CB14002.D

Date: 14-FEB-2013 14:34

Client ID: DFTPP Instrument: BSMC5973.i

Sample Info: DFTPP-1490607 Operator: SCC

Data File: \\tam-chemsvr\chem\SM\BSMC5973.i\1C021413.b\1CB14002.D
Spectrum: HP ChemStation MS 1CB14002.D, Scan 227: 7.416 min.
Location of Maximum: 198.00
Number of points: 275

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	371	118.10	1621	192.10	1669	274.00	7171
38.20	434	120.00	350	192.80	1234	275.10	36416
39.20	3690	121.10	235	193.20	1571	276.00	5295
40.00	751	121.90	867	194.00	510	277.10	2710
41.20	634	123.00	1501	194.80	269	278.00	302
43.30	257	123.80	696	196.00	5700	281.90	259
44.10	501	125.00	861	196.70	1264	282.70	580
45.00	242	125.90	259	198.00	147136	284.10	372
49.10	474	127.10	65264	199.00	9949	285.00	1159
50.10	11289	128.00	5253	200.00	1120	286.10	320
51.10	43504	129.10	28840	201.30	749	293.10	1289
52.10	2547	130.10	1883	203.00	486	293.80	438
53.20	273	131.00	536	204.00	5828	296.00	9634
54.90	420	132.00	246	205.10	10422	297.10	1137
55.20	420	134.10	533	206.10	44136	298.00	188
56.00	1847	134.90	1414	207.10	3702	298.80	298
57.10	2548	135.90	648	208.00	1687	302.90	997
59.30	179	137.10	1507	209.10	694	303.90	573
61.10	1009	138.00	510	210.00	391	307.80	500
62.20	732	139.00	299	211.10	1277	309.90	157
63.00	2021	139.90	184	213.00	379	312.60	338
64.10	217	141.10	2150	215.00	808	314.00	574
65.20	1212	142.10	928	215.90	975	315.00	853
66.90	214	143.00	733	217.00	10597	316.00	1171
68.20	1232	144.00	272	218.00	1000	317.10	301
69.00	69464	145.10	343	221.10	9031	320.80	448
69.80	657	145.90	374	221.90	1292	322.10	164
72.80	492	147.00	2509	223.10	2822	323.10	3972
74.10	5754	148.00	4230	224.10	22440	323.90	486
75.10	8015	149.10	601	225.00	5911	326.00	204
76.10	2308	150.10	437	226.10	1017	326.90	921
77.10	61960	151.10	405	227.00	8453	327.90	313
78.00	4024	151.60	658	228.00	1821	332.10	269
79.10	3970	153.00	851	229.00	2324	333.00	478
80.10	2777	154.10	680	229.90	314	334.00	2331
81.10	4524	155.10	1295	230.90	1472	335.00	458
82.10	542	156.10	3265	233.90	513	338.90	161
83.00	955	157.00	396	235.00	1400	341.00	394
84.00	467	158.00	1185	236.00	615	346.00	727
84.90	615	159.10	365	237.00	943	349.60	233

86.10	1229	160.00	1304	238.70	365	352.10	846
86.90	215	161.10	2118	239.90	532	353.00	1436
87.40	519	162.00	740	240.90	442	353.90	1004
88.10	401	164.10	349	242.00	1716	355.00	212
89.00	184	165.00	1451	243.00	964	358.50	181
89.90	300	166.10	1191	244.10	18816	359.00	622
91.00	960	167.10	7096	245.10	1792	363.60	385
92.10	1860	168.00	2883	246.10	4033	365.00	4730
93.00	6781	169.10	583	247.10	489	365.70	766
93.80	329	170.10	204	249.00	702	369.50	155
95.00	321	171.20	201	250.00	367	371.80	1997
95.90	155	172.30	378	252.00	222	373.10	288
98.10	4350	172.80	778	252.60	264	383.10	894
99.00	4394	174.10	1636	253.10	619	384.10	266
101.00	2169	175.00	2797	253.80	409	390.00	501
103.10	759	176.30	836	255.00	82560	401.90	683
104.00	1648	176.90	809	256.10	13484	403.00	1288
104.90	863	177.90	314	257.10	887	403.90	254
105.60	249	179.00	3326	258.10	4011	421.10	1226
106.20	541	180.00	4090	259.00	816	422.00	875
107.00	19168	181.00	1573	262.90	287	423.00	6310
108.00	2424	184.10	327	264.90	1826	424.10	2184
110.10	33656	185.10	2795	266.10	338	436.30	206
111.10	4801	186.10	19768	268.00	212	441.00	19448
111.90	1095	187.10	6050	268.70	179	442.00	134592
112.70	293	188.10	809	269.10	339	443.10	27336
114.80	274	188.90	712	270.90	375	444.00	1885
116.10	1269	189.70	197	272.10	222	444.90	520
117.10	13317	191.10	469	273.00	2533		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87218-1
SDG No.: 68087218-1
Client Sample ID:
Lab Sample ID: MB 660-134390/1-A
Matrix: Solid
Lab File ID: 1CB13021.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/12/2013 13:25
Sample wt/vol: 15.03(g)
Date Analyzed: 02/13/2013 17:24
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.: 134444
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	4.00	J	8.0	3.9
129-00-0	Pyrene	20	U	20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	103		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13021.D
Lab Smp Id: mb 660-134390/1-a
Inj Date : 13-FEB-2013 17:24
Operator : SCC Inst ID: BSMC5973.i
Smp Info : mb 660-134390/1-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 21 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	15.030	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.822	3.821	(1.000)	1923264	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1491227	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	2851093	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	428216	10.2505	682.0044
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3478631	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	3575673	40.0000	
11 Phenanthrene	178	5.880	5.880	(1.003)	5118	0.06014	4.0012(QH)

QC Flag Legend

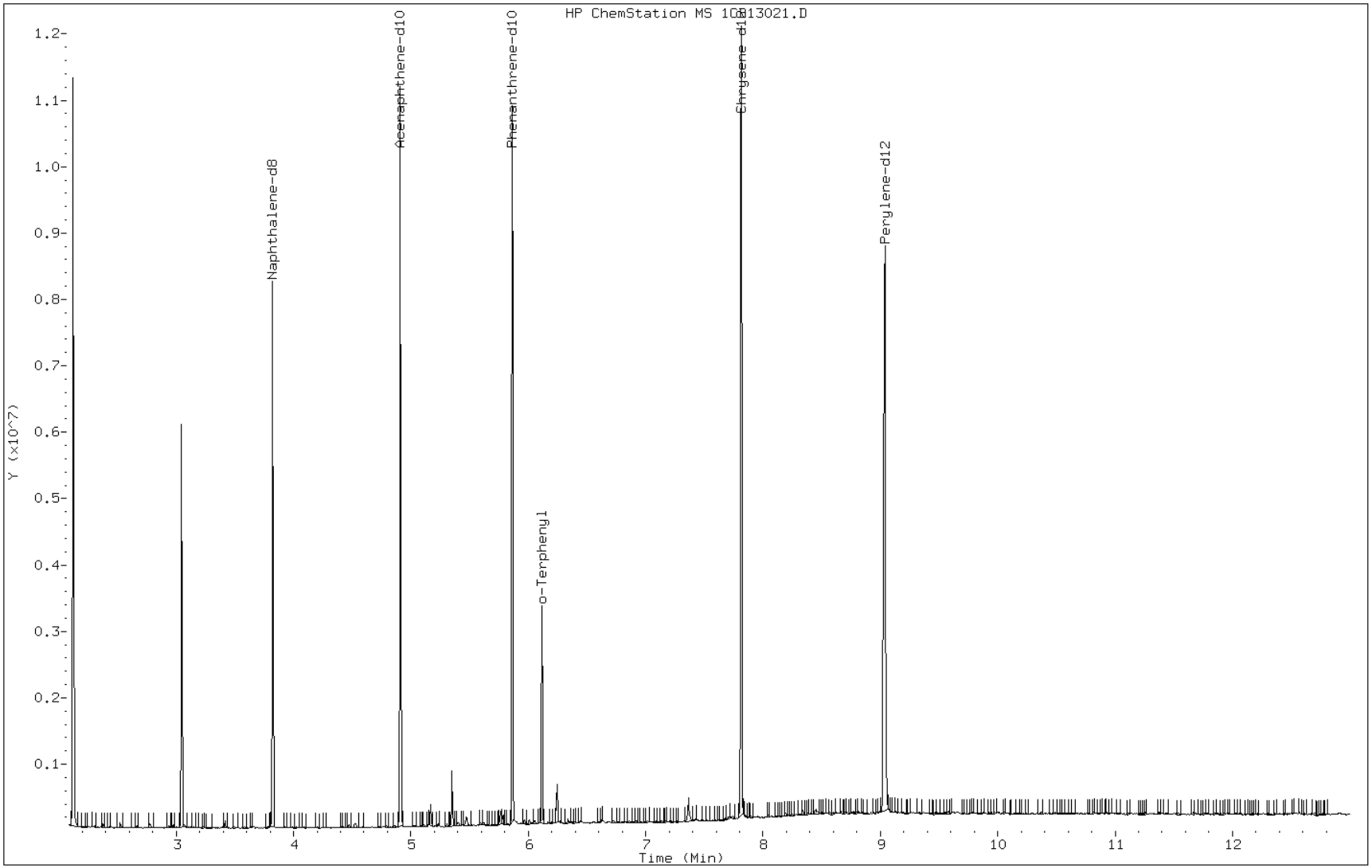
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: 1CB13021.D

Date: 13-FEB-2013 17:24

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134390/1-a Operator: SCC



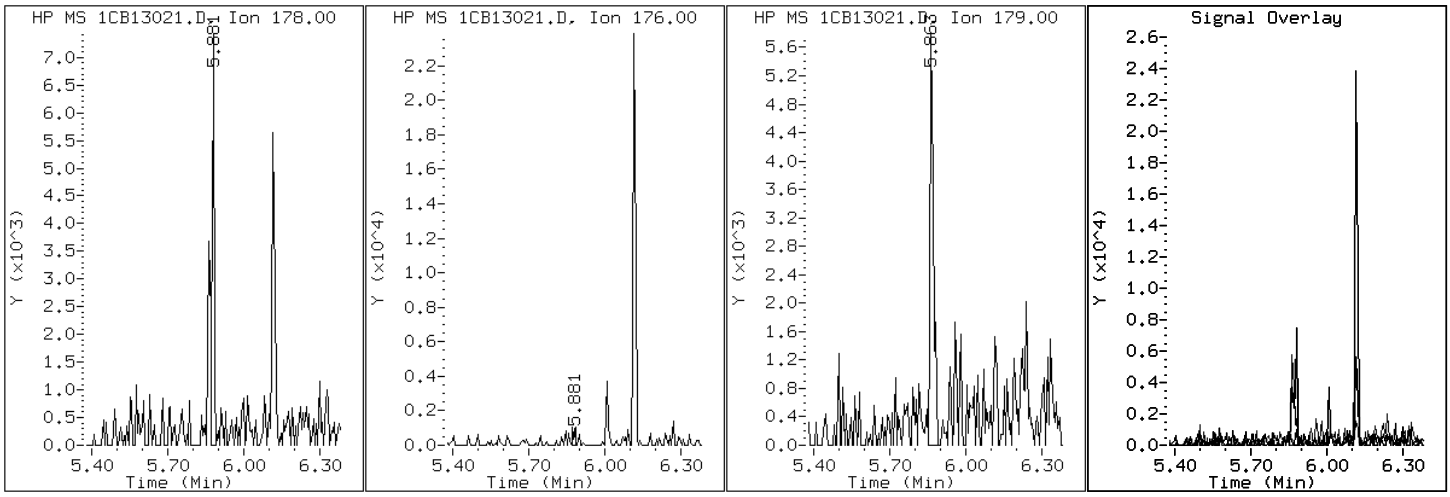
Data File: 1CB13021.D

Date: 13-FEB-2013 17:24

Client ID: Instrument: BSMC5973.i

Sample Info: mb 660-134390/1-a Operator: SCC

11 Phenanthrene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa
Job No.: 680-87218-1
SDG No.: 68087218-1
Client Sample ID:
Lab Sample ID: LCS 660-134390/2-A
Matrix: Solid
Lab File ID: 1CB13022.D
Analysis Method: 8270C LL
Date Collected:
Extract. Method: 3546
Date Extracted: 02/12/2013 13:25
Sample wt/vol: 14.95(g)
Date Analyzed: 02/13/2013 17:42
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.: 134444
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	624		100	20
208-96-8	Acenaphthylene	642		40	5.0
120-12-7	Anthracene	680		8.4	4.2
56-55-3	Benzo[a]anthracene	668		8.0	3.9
50-32-8	Benzo[a]pyrene	646		10	5.2
205-99-2	Benzo[b]fluoranthene	640		12	6.1
191-24-2	Benzo[g,h,i]perylene	646		20	4.4
207-08-9	Benzo[k]fluoranthene	705		8.0	3.6
218-01-9	Chrysene	598		9.0	4.5
53-70-3	Dibenz(a,h)anthracene	629		20	4.1
206-44-0	Fluoranthene	736		20	4.0
86-73-7	Fluorene	653		20	4.1
193-39-5	Indeno[1,2,3-cd]pyrene	559		20	7.1
90-12-0	1-Methylnaphthalene	669		40	4.4
91-57-6	2-Methylnaphthalene	637		40	7.1
91-20-3	Naphthalene	621		40	4.4
85-01-8	Phenanthrene	599		8.0	3.9
129-00-0	Pyrene	668		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	101		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13022.D
Lab Smp Id: lcs 660-134390/2-a
Inj Date : 13-FEB-2013 17:42
Operator : SCC Inst ID: BSMC5973.i
Smp Info : lcs 660-134390/2-a
Misc Info :
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 22 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	14.950	Weight Extracted
M	0.00000	% Moisture
A	1000.000	uL to mL conversion
B	1000.000	g to kg conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1 if no conv
GPC	1.000	GPC FACTOR
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	1835828	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1444403	40.0000	
* 10 Phenanthrene-d10	188	5.862	5.863	(1.000)	2803941	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	416398	10.1352	677.9430
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3512431	40.0000	
* 23 Perylene-d12	264	9.033	9.039	(1.000)	3624179	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	451532	9.28180	620.8559
3 2-Methylnaphthalene	142	4.262	4.263	(1.115)	301182	9.52159	636.8956
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	287673	9.99962	668.8708
5 Acenaphthylene	152	4.821	4.821	(0.982)	551967	9.60537	642.4994
7 Acenaphthene	154	4.927	4.927	(1.004)	336216	9.32873	623.9955
9 Fluorene	166	5.251	5.251	(1.069)	451855	9.76687	653.3023
11 Phenanthrene	178	5.880	5.880	(1.003)	750054	8.96167	599.4431
12 Anthracene	178	5.915	5.915	(1.009)	766218	10.1611	679.6700

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.021	6.021	(1.027)	711323	10.8598	726.4112
15 Fluoranthene	202	6.721	6.721	(1.146)	900283	11.0083	736.3396
16 Pyrene	202	6.892	6.892	(0.882)	934161	9.99001	668.2283
17 Benzo(a)anthracene	228	7.803	7.804	(0.998)	967294	9.98650	667.9934
19 Chrysene	228	7.833	7.833	(1.002)	893979	8.93520	597.6722
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.960)	850716	9.57442	640.4291
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	1031808	10.5408	705.0734
22 Benzo(a)pyrene	252	8.980	8.980	(0.994)	816659	9.65904	646.0897
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	678372	8.35360	558.7689(M)
25 Dibenzo(a,h)anthracene	278	10.274	10.280	(1.137)	720395	9.40711	629.2383
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	796198	9.65202	645.6201

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CB13022.D

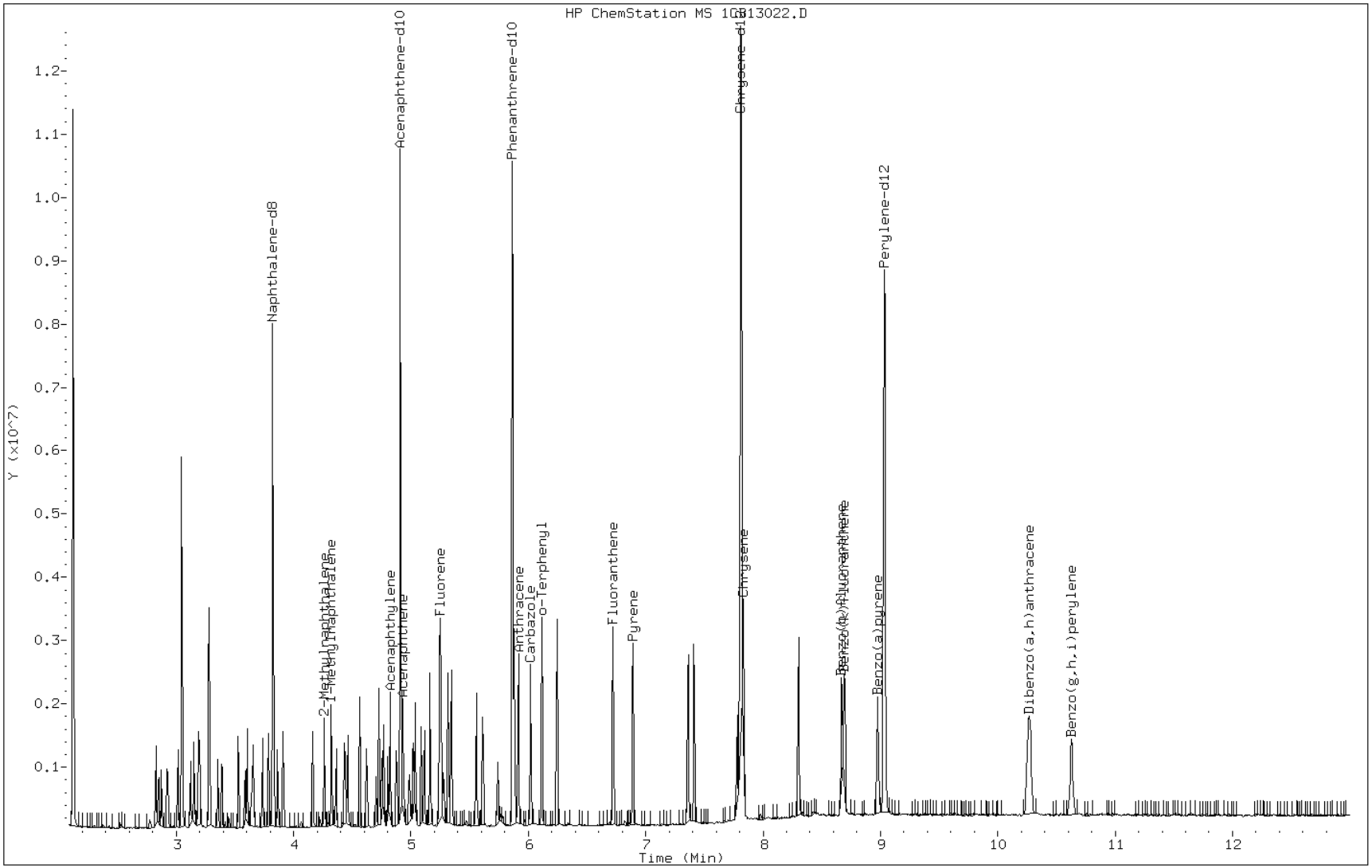
Date: 13-FEB-2013 17:42

Client ID:

Instrument: BSMC5973.i

Sample Info: lcs 660-134390/2-a

Operator: SCC



Manual Integration Report

Data File: 1CB13022.D
Inj. Date and Time: 13-FEB-2013 17:42
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

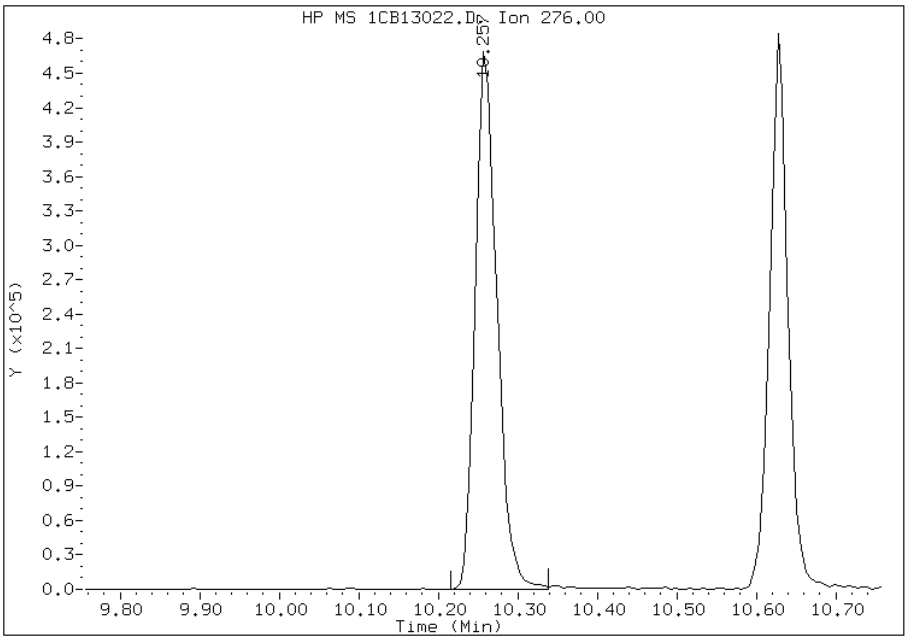
Processing Integration Results

RT: 10.26

Response: 882821

Amount: 11

Conc: 727



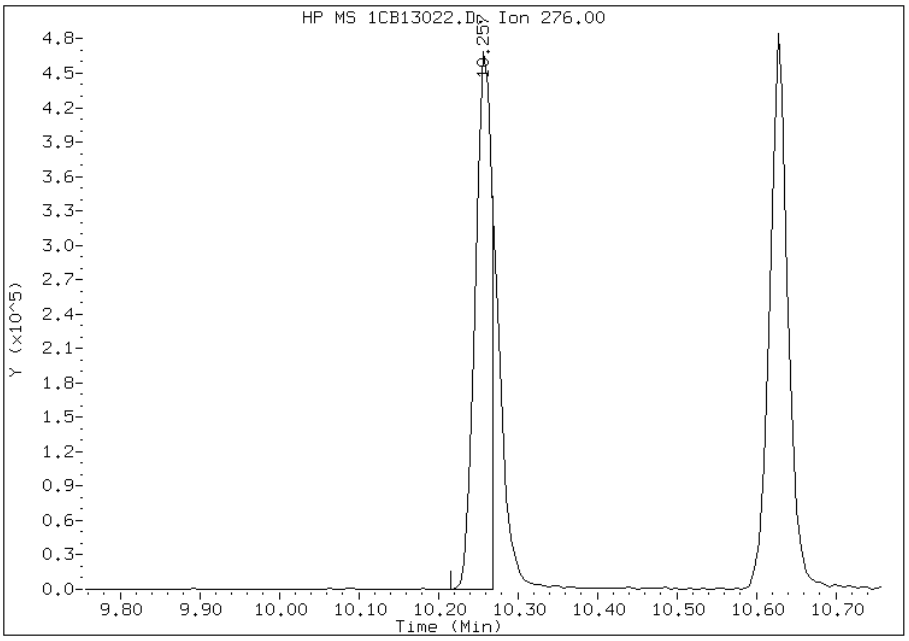
Manual Integration Results

RT: 10.26

Response: 678372

Amount: 8

Conc: 559



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 11:42
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0800A-CS-SP MS | Lab Sample ID: 680-87218-3 MS

Matrix: Solid | Lab File ID: 1CB13026.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:40

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.05(g) | Date Analyzed: 02/13/2013 18:55

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

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

% Moisture: 23.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	907		520	100
208-96-8	Acenaphthylene	1100		210	26
120-12-7	Anthracene	1190		44	22
56-55-3	Benzo[a]anthracene	1700		42	20
50-32-8	Benzo[a]pyrene	1700		54	27
205-99-2	Benzo[b]fluoranthene	2710		64	32
191-24-2	Benzo[g,h,i]perylene	1370		100	23
207-08-9	Benzo[k]fluoranthene	1400		42	19
218-01-9	Chrysene	1920		47	23
53-70-3	Dibenz(a,h)anthracene	1090		100	21
206-44-0	Fluoranthene	1940		100	21
86-73-7	Fluorene	956		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	1400		100	37
90-12-0	1-Methylnaphthalene	1950		210	23
91-57-6	2-Methylnaphthalene	1990		210	37
91-20-3	Naphthalene	1580		210	23
85-01-8	Phenanthrene	1730		42	20
129-00-0	Pyrene	2050		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	115		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13026.D
Lab Smp Id: 680-87218-a-3-b ms
Inj Date : 13-FEB-2013 18:55
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-3-b ms
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 26 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/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.822	3.821	(1.000)	2236600	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1706067	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	3107026	40.0000	
$ 14 o-Terphenyl	230	6.116	6.115	(1.043)	130752	2.87209	763.3463
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	3174364	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	2960227	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	269626	4.54935	1209.1284(R)
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	220862	5.73119	1523.2410(R)
4 1-Methylnaphthalene	142	4.322	4.321	(1.131)	197016	5.62121	1494.0083(R)
5 Acenaphthylene	152	4.822	4.821	(0.982)	213958	3.15226	837.8093
7 Acenaphthene	154	4.927	4.927	(1.004)	111026	2.60808	693.1780
9 Fluorene	166	5.251	5.251	(1.069)	150295	2.75038	730.9987
11 Phenanthrene	178	5.880	5.880	(1.003)	461605	4.97727	1322.8622(R)
12 Anthracene	178	5.916	5.915	(1.009)	286664	3.43071	911.8168(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.021	6.021	(1.027)	233544	3.21773	855.2105
15 Fluoranthene	202	6.721	6.721	(1.146)	505287	5.57574	1481.9240(R)
16 Pyrene	202	6.892	6.892	(0.882)	498694	5.90105	1568.3863(R)
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	427078	4.87880	1296.6915(R)
19 Chrysene	228	7.833	7.833	(1.002)	500476	5.53492	1471.0748(R)
20 Benzo(b)fluoranthene	252	8.668	8.674	(0.959)	565893	7.79734	2072.3834(R)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	322941	4.03910	1073.5146(R)
22 Benzo(a)pyrene	252	8.980	8.980	(0.993)	338036	4.89487	1300.9612(R)
24 Indeno(1,2,3-cd)pyrene	276	10.256	10.262	(1.135)	266864	4.02328	1069.3101(RM)
25 Dibenzo(a,h)anthracene	278	10.280	10.280	(1.137)	196875	3.14746	836.5354
26 Benzo(g,h,i)perylene	276	10.627	10.633	(1.176)	264777	3.92972	1044.4450(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB13026.D

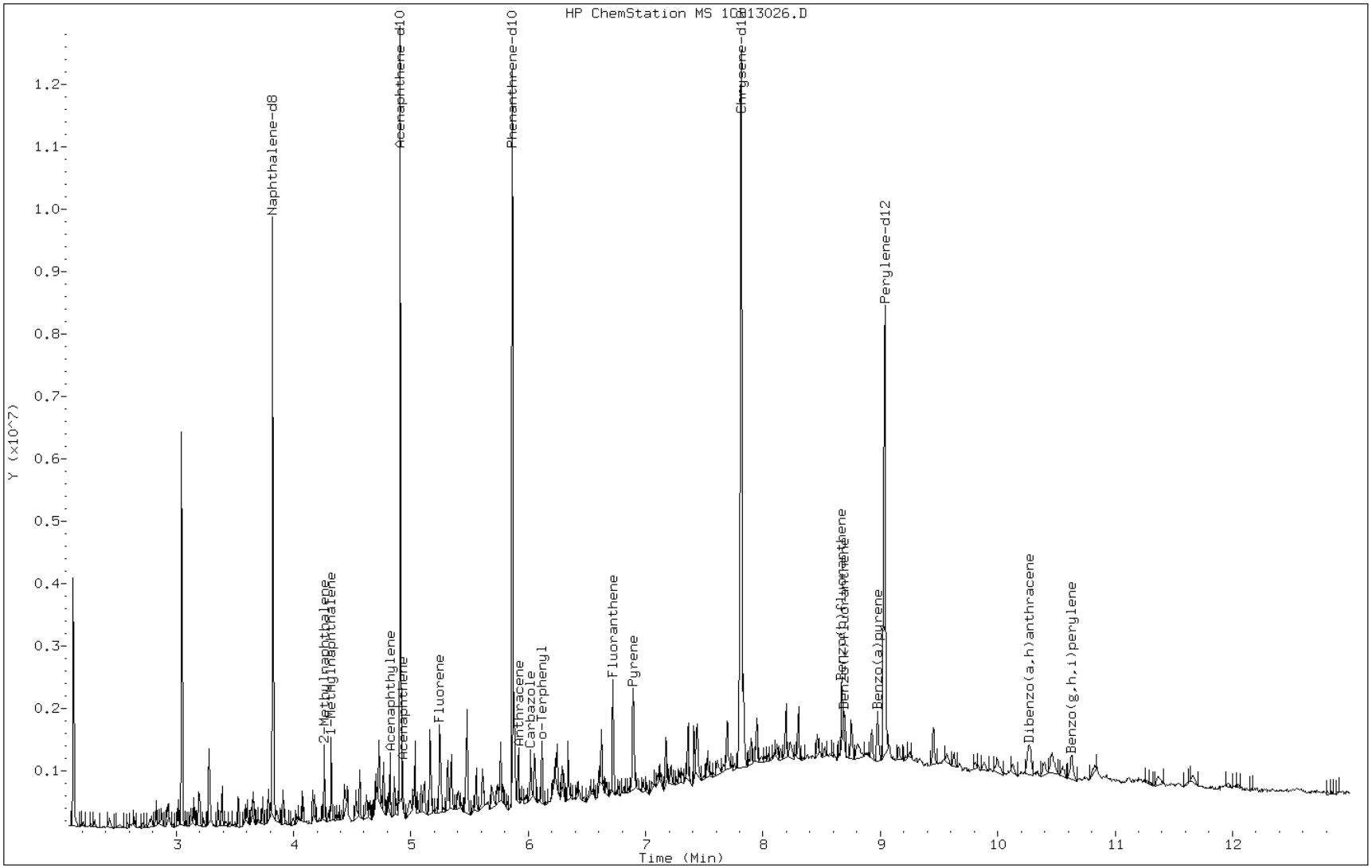
Date: 13-FEB-2013 18:55

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-b ms

Operator: SCC



Manual Integration Report

Data File: 1CB13026.D
Inj. Date and Time: 13-FEB-2013 18:55
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

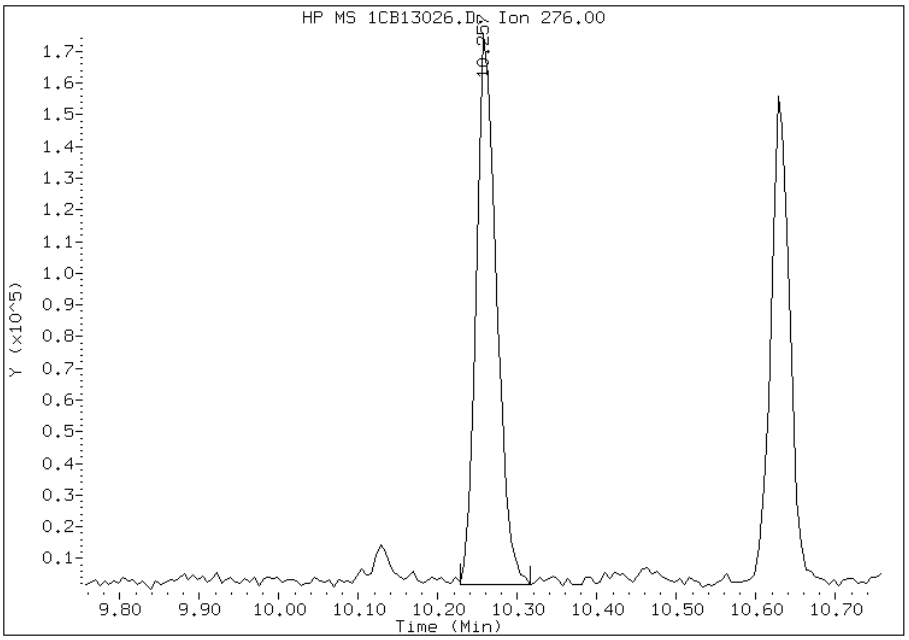
Processing Integration Results

RT: 10.26

Response: 305709

Amount: 5

Conc: 1225



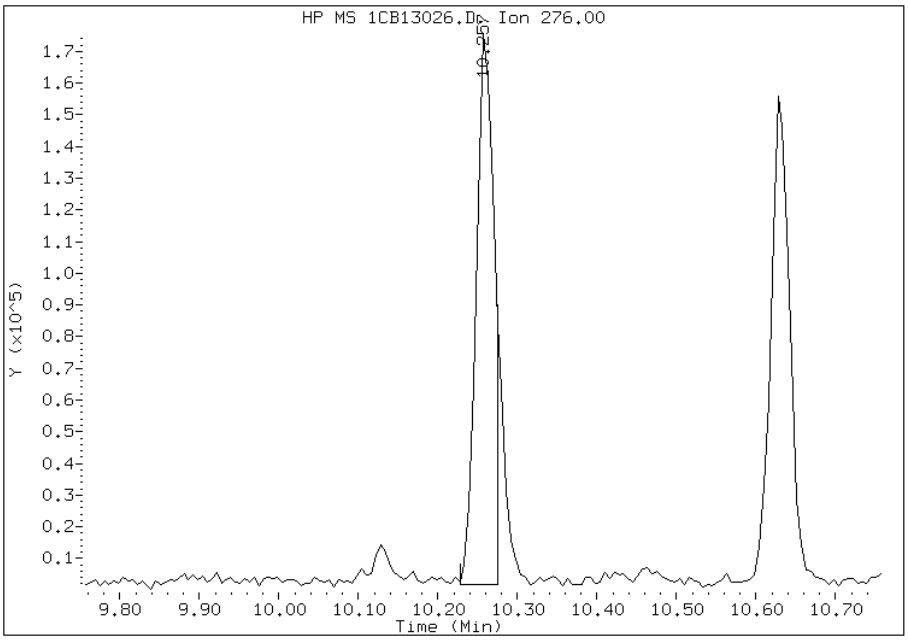
Manual Integration Results

RT: 10.26

Response: 266864

Amount: 4

Conc: 1069



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:04
Manual Integration Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tampa | Job No.: 680-87218-1

SDG No.: 68087218-1

Client Sample ID: CV0800A-CS-SP MSD | Lab Sample ID: 680-87218-3 MSD

Matrix: Solid | Lab File ID: 1CB13027.D

Analysis Method: 8270C LL | Date Collected: 02/05/2013 09:40

Extract. Method: 3546 | Date Extracted: 02/12/2013 13:25

Sample wt/vol: 15.05(g) | Date Analyzed: 02/13/2013 19:13

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

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

% Moisture: 23.6 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 134444 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	928		520	100
208-96-8	Acenaphthylene	1120		210	26
120-12-7	Anthracene	1240		44	22
56-55-3	Benzo[a]anthracene	1730		42	20
50-32-8	Benzo[a]pyrene	1820		54	27
205-99-2	Benzo[b]fluoranthene	2750		64	32
191-24-2	Benzo[g,h,i]perylene	1500		100	23
207-08-9	Benzo[k]fluoranthene	1540		42	19
218-01-9	Chrysene	2020		47	23
53-70-3	Dibenz(a,h)anthracene	1140		100	21
206-44-0	Fluoranthene	1980		100	21
86-73-7	Fluorene	935		100	21
193-39-5	Indeno[1,2,3-cd]pyrene	1450		100	37
90-12-0	1-Methylnaphthalene	2010		210	23
91-57-6	2-Methylnaphthalene	1980		210	37
91-20-3	Naphthalene	1440		210	23
85-01-8	Phenanthrene	1840		42	20
129-00-0	Pyrene	2190		100	19

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	112		30-130

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\1CB13027.D
Lab Smp Id: 680-87218-a-3-c msd
Inj Date : 13-FEB-2013 19:13
Operator : SCC Inst ID: BSMC5973.i
Smp Info : 680-87218-a-3-c msd
Misc Info : 4.0
Comment :
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C021313.b\a-bFASTPAHi-m.m
Meth Date : 13-Feb-2013 12:11 cantins Quant Type: ISTD
Cal Date : 07-JAN-2013 17:13 Cal File: 1CA07019.D
Als bottle: 27 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/ml)	FINAL (ug/Kg)
* 1 Naphthalene-d8	136	3.821	3.821	(1.000)	2117730	40.0000	
* 6 Acenaphthene-d10	164	4.910	4.910	(1.000)	1607734	40.0000	
* 10 Phenanthrene-d10	188	5.863	5.863	(1.000)	2865976	40.0000	
$ 14 o-Terphenyl	230	6.115	6.115	(1.043)	117909	2.80782	746.2641
* 18 Chrysene-d12	240	7.815	7.815	(1.000)	2898987	40.0000	
* 23 Perylene-d12	264	9.039	9.039	(1.000)	2708999	40.0000	
2 Naphthalene	128	3.833	3.833	(1.003)	232568	4.14434	1101.4844(R)
3 2-Methylnaphthalene	142	4.263	4.263	(1.115)	207752	5.69360	1513.2496(R)
4 1-Methylnaphthalene	142	4.321	4.321	(1.131)	191819	5.78013	1536.2464(R)
5 Acenaphthylene	152	4.821	4.821	(0.982)	205745	3.21665	854.9246
7 Acenaphthene	154	4.927	4.927	(1.004)	107010	2.66749	708.9675
9 Fluorene	166	5.251	5.251	(1.069)	138473	2.68903	714.6922
11 Phenanthrene	178	5.880	5.880	(1.003)	452901	5.29415	1407.0830(R)
12 Anthracene	178	5.915	5.915	(1.009)	274320	3.55910	945.9414(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
13 Carbazole	167	6.021	6.021	(1.027)	220615	3.29525	875.8136(R)
15 Fluoranthene	202	6.721	6.721	(1.146)	476834	5.70432	1516.0983(R)
16 Pyrene	202	6.892	6.892	(0.882)	485633	6.29237	1672.3899(R)
17 Benzo(a)anthracene	228	7.804	7.804	(0.998)	397873	4.97692	1322.7702(R)
19 Chrysene	228	7.833	7.833	(1.002)	480718	5.82142	1547.2210(R)
20 Benzo(b)fluoranthene	252	8.674	8.674	(0.960)	524433	7.89621	2098.6594(R)
21 Benzo(k)fluoranthene	252	8.692	8.698	(0.962)	324670	4.43731	1179.3511(R)
22 Benzo(a)pyrene	252	8.974	8.980	(0.993)	331579	5.24664	1394.4552(R)
24 Indeno(1,2,3-cd)pyrene	276	10.262	10.262	(1.135)	252353	4.15733	1104.9390(RM)
25 Dibenzo(a,h)anthracene	278	10.280	10.280	(1.137)	187756	3.28005	871.7737(R)
26 Benzo(g,h,i)perylene	276	10.633	10.633	(1.176)	266313	4.31907	1147.9259(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: 1CB13027.D

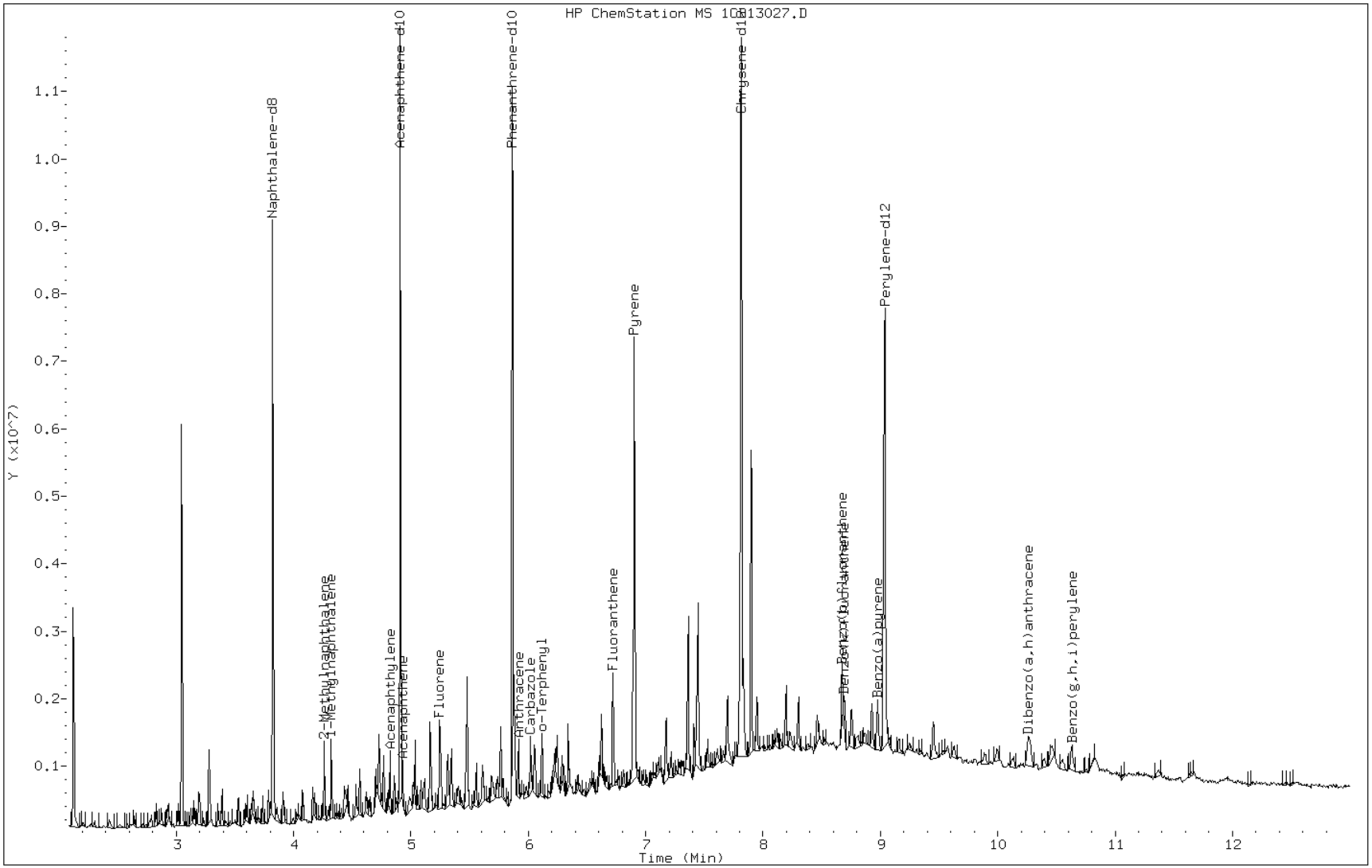
Date: 13-FEB-2013 19:13

Client ID:

Instrument: BSMC5973.i

Sample Info: 680-87218-a-3-c msd

Operator: SCC



Manual Integration Report

Data File: 1CB13027.D
Inj. Date and Time: 13-FEB-2013 19:13
Instrument ID: BSMC5973.i
Client ID:
Compound: 24 Indeno(1,2,3-cd)pyrene
CAS #: 193-39-5
Report Date: 02/14/2013

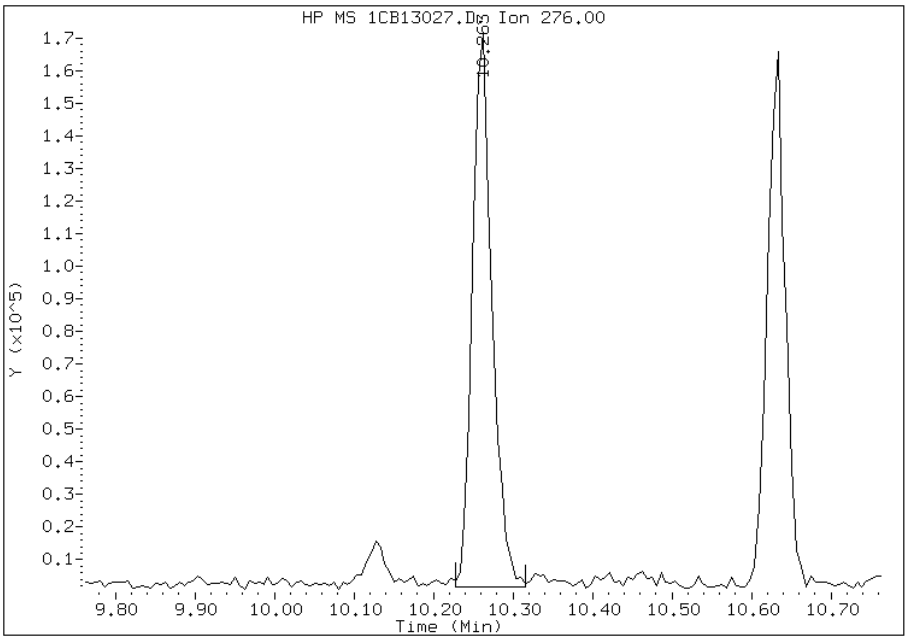
Processing Integration Results

RT: 10.26

Response: 289131

Amount: 5

Conc: 1266



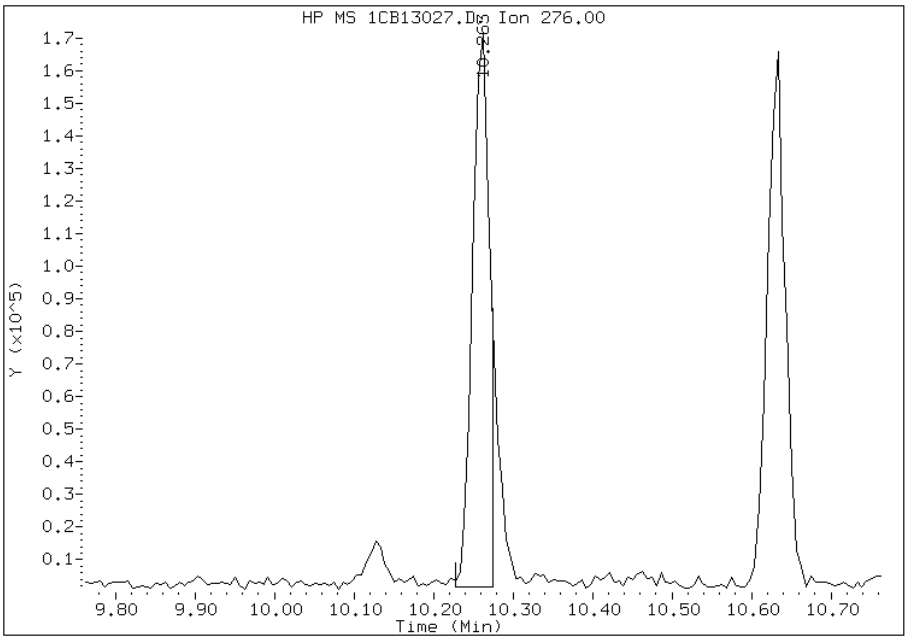
Manual Integration Results

RT: 10.26

Response: 252353

Amount: 4

Conc: 1105



Manually Integrated By: cantins
Modification Date: 14-Feb-2013 14:05
Manual Integration Reason: Split Peak

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

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.: 680-87218-1

SDG No.: 68087218-1

Instrument ID: BSMC5973 Start Date: 02/13/2013 09:57

Analysis Batch Number: 134444 End Date: 02/14/2013 00:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/13/2013 09:57	1		DB-5MS 250(um)
DFTPP 660-134444/2		02/13/2013 10:17	1	1CB13002.D	DB-5MS 250(um)
CCVIS 660-134444/3		02/13/2013 10:55	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 11:17	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 11:36	1		DB-5MS 250(um)
CCVIS 660-134444/6		02/13/2013 11:54	1	1CB13006.D	DB-5MS 250(um)
ZZZZZ		02/13/2013 12:12	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 12:32	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 12:52	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 13:13	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 13:33	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 13:54	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 14:14	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 14:33	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 14:52	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 15:10	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 15:28	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 15:46	1		DB-5MS 250(um)
CCVIS 660-134444/19		02/13/2013 16:06	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 17:05	2		DB-5MS 250(um)
MB 660-134390/1-A		02/13/2013 17:24	1	1CB13021.D	DB-5MS 250(um)
LCS 660-134390/2-A		02/13/2013 17:42	1	1CB13022.D	DB-5MS 250(um)
680-87218-1	CV0127A-CS-SP	02/13/2013 18:00	1	1CB13023.D	DB-5MS 250(um)
680-87218-2	CV0127B-CS-SP	02/13/2013 18:18	1	1CB13024.D	DB-5MS 250(um)
680-87218-3	CV0800A-CS-SP	02/13/2013 18:37	4	1CB13025.D	DB-5MS 250(um)
680-87218-3 MS	CV0800A-CS-SP MS	02/13/2013 18:55	4	1CB13026.D	DB-5MS 250(um)
680-87218-3 MSD	CV0800A-CS-SP MSD	02/13/2013 19:13	4	1CB13027.D	DB-5MS 250(um)
680-87218-4	CV0966A-CS-SP	02/13/2013 19:32	1	1CB13028.D	DB-5MS 250(um)
680-87218-5	CV0966B-CS-SP	02/13/2013 19:50	4	1CB13029.D	DB-5MS 250(um)
680-87218-6	HP0325A-CS-SP	02/13/2013 20:08	1	1CB13030.D	DB-5MS 250(um)
680-87218-7	HP0325B-CS-SP	02/13/2013 20:27	4	1CB13031.D	DB-5MS 250(um)
680-87218-8	CV0966C-CS-SP	02/13/2013 20:45	4	1CB13032.D	DB-5MS 250(um)
680-87218-9	CV0748A-CS	02/13/2013 21:03	4	1CB13033.D	DB-5MS 250(um)
680-87218-10	CV0748A-CSD	02/13/2013 21:22	1	1CB13034.D	DB-5MS 250(um)
ZZZZZ		02/13/2013 21:40	4		DB-5MS 250(um)
680-87218-12	CV0748B-CSD	02/13/2013 21:58	1	1CB13036.D	DB-5MS 250(um)
680-87218-13	CV0748C-CS	02/13/2013 22:17	4	1CB13037.D	DB-5MS 250(um)
ZZZZZ		02/13/2013 22:35	4		DB-5MS 250(um)
ZZZZZ		02/13/2013 22:53	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 23:12	1		DB-5MS 250(um)
ZZZZZ		02/13/2013 23:30	4		DB-5MS 250(um)
ZZZZZ		02/13/2013 23:48	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 00:06	4		DB-5MS 250(um)
ZZZZZ		02/14/2013 00:25	4		DB-5MS 250(um)

8270C LL

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Instrument ID: BSMC5973 Start Date: 02/14/2013 13:57

Analysis Batch Number: 134493 End Date: 02/14/2013 18:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/14/2013 13:57	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 14:15	1		DB-5MS 250(um)
DFTPP 660-134493/2		02/14/2013 14:34	1	1CB14002.D	DB-5MS 250(um)
CCVIS 660-134493/3		02/14/2013 14:56	1	1CB14003.D	DB-5MS 250(um)
ZZZZZ		02/14/2013 15:17	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 15:35	1		DB-5MS 250(um)
ZZZZZ		02/14/2013 15:53	1		DB-5MS 250(um)
680-87218-11	CV0748B-CS	02/14/2013 16:12	4	1CB14007.D	DB-5MS 250(um)
680-87218-14	CV0748C-CSD	02/14/2013 16:31	1	1CB14008.D	DB-5MS 250(um)
680-87218-15	CV0748D-CS	02/14/2013 16:49	1	1CB14009.D	DB-5MS 250(um)
680-87218-16	CV0748D-CSD	02/14/2013 17:07	1	1CB14010.D	DB-5MS 250(um)
680-87218-17	CV0748E-CS	02/14/2013 17:26	1	1CB14011.D	DB-5MS 250(um)
680-87218-18	CV0748F-CS	02/14/2013 17:44	1	1CB14012.D	DB-5MS 250(um)
680-87218-19	CV0748G-CS	02/14/2013 18:02	4	1CB14013.D	DB-5MS 250(um)
680-87218-20	CV0748H-CS	02/14/2013 18:21	4	1CB14014.D	DB-5MS 250(um)
ZZZZZ		02/14/2013 18:39	4		DB-5MS 250(um)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Batch Number: 134390 Batch Start Date: 02/12/13 13:25 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/13/13 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00174		
MB 660-134390/1		3546, 8270C LL		15.03 g	1 mL		1 mL		
LCS 660-134390/2		3546, 8270C LL		14.95 g	1 mL	1 mL	1 mL		
680-87218-A-1	CV0127A-CS-SP	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-87218-A-2	CV0127B-CS-SP	3546, 8270C LL	T	15.00 g	1 mL		1 mL		
680-87218-A-3	CV0800A-CS-SP	3546, 8270C LL	T	15.05 g	1 mL		1 mL		
680-87218-A-3 MS	CV0800A-CS-SP	3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		
680-87218-A-3 MSD	CV0800A-CS-SP	3546, 8270C LL	T	15.05 g	1 mL	1 mL	1 mL		
680-87218-A-4	CV0966A-CS-SP	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-87218-A-5	CV0966B-CS-SP	3546, 8270C LL	T	15.08 g	1 mL		1 mL		
680-87218-A-6	HP0325A-CS-SP	3546, 8270C LL	T	15.12 g	1 mL		1 mL		
680-87218-A-7	HP0325B-CS-SP	3546, 8270C LL	T	15.15 g	1 mL		1 mL		
680-87218-A-8	CV0966C-CS-SP	3546, 8270C LL	T	14.97 g	10 mL		1 mL		
680-87218-A-9	CV0748A-CS	3546, 8270C LL	T	15.26 g	1 mL		1 mL		
680-87218-A-10	CV0748A-CSD	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-87218-A-11	CV0748B-CS	3546, 8270C LL	T	14.98 g	1 mL		1 mL		
680-87218-A-12	CV0748B-CSD	3546, 8270C LL	T	15.10 g	1 mL		1 mL		
680-87218-A-13	CV0748C-CS	3546, 8270C LL	T	15.18 g	1 mL		1 mL		
680-87218-A-14	CV0748C-CSD	3546, 8270C LL	T	15.19 g	1 mL		1 mL		
680-87218-A-15	CV0748D-CS	3546, 8270C LL	T	15.21 g	1 mL		1 mL		
680-87218-A-16	CV0748D-CSD	3546, 8270C LL	T	15.03 g	1 mL		1 mL		
680-87218-A-17	CV0748E-CS	3546, 8270C LL	T	15.07 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.: 680-87218-1

SDG No.: 68087218-1

Batch Number: 134390 Batch Start Date: 02/12/13 13:25 Batch Analyst: Cerome, Saurel

Batch Method: 3546 Batch End Date: 02/13/13 13:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX-625LVI SPK 00018	EXLLSURINT 00174		
680-87218-A-18	CV0748F-CS	3546, 8270C LL	T	14.95 g	1 mL		1 mL		
680-87218-A-19	CV0748G-CS	3546, 8270C LL	T	15.13 g	1 mL		1 mL		
680-87218-A-20	CV0748H-CS	3546, 8270C LL	T	15.09 g	1 mL		1 mL		

Batch Notes	
Acetone Lot #	EX-ACETON BOT_50
Balance ID	B001
Batch Comment	NONE
Person's name who did the concentration	AG
Exchange Solvent Lot #	EX-MC CYCL_52
Exchange Solvent Name	DCM
Final Concentrator Volume	1 mL
MeCL2 Lot #	EX-MC CYCL_52
MeCl2/Acetone Lot #	EX-DCM/ACETON_15
Microwave Start Time	15:00 2/12/13
Microwave Stop Time	15:35 2/12/13
Na2SO4 Lot Number	EX-NA2S04_62
Ottawa Sand Lot #	EX-OTTOWA SAND_9
Person's name who did the prep	AG
SOP Number	TP-EX-14
Person who witnessed spiking	SC
Surrogate Lot Number	EXLLSURINT_174
Water Bath ID	TURBOVAP 2 #1/2/3/4
Water Bath Temperature	40

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87218-1

SDG No.: 68087218-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV0127A-CS-SP	680-87218-1
CV0127B-CS-SP	680-87218-2
CV0800A-CS-SP	680-87218-3
CV0966A-CS-SP	680-87218-4
CV0966B-CS-SP	680-87218-5
HP0325A-CS-SP	680-87218-6
HP0325B-CS-SP	680-87218-7
CV0966C-CS-SP	680-87218-8
CV0748A-CS	680-87218-9
CV0748A-CSD	680-87218-10
CV0748B-CS	680-87218-11
CV0748B-CSD	680-87218-12
CV0748C-CS	680-87218-13
CV0748C-CSD	680-87218-14
CV0748D-CS	680-87218-15
CV0748D-CSD	680-87218-16
CV0748E-CS	680-87218-17
CV0748F-CS	680-87218-18
CV0748G-CS	680-87218-19
CV0748H-CS	680-87218-20

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87218-1

SDG Number: 68087218-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 01/01/2004 18:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job Number: 680-87218-1

SDG Number: 68087218-1

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 04/12/2010 08:14

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/09/2013 11:13 End Date: 02/09/2013 11:13

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCS 660-134284/1	1	T	11:13	X																			
ZZZZZZ			11:13																				
ZZZZZZ			11:13																				
680-87218-1	1	T	11:13	X																			
680-87218-2	1	T	11:13	X																			
680-87218-3	1	T	11:13	X																			
680-87218-4	1	T	11:13	X																			
680-87218-5	1	T	11:13	X																			
680-87218-6	1	T	11:13	X																			
680-87218-7	1	T	11:13	X																			
680-87218-8	1	T	11:13	X																			
680-87218-9	1	T	11:13	X																			
680-87218-10	1	T	11:13	X																			
680-87218-11	1	T	11:13	X																			
680-87218-12	1	T	11:13	X																			
680-87218-13	1	T	11:13	X																			
680-87218-14	1	T	11:13	X																			
680-87218-15	1	T	11:13	X																			
680-87218-16	1	T	11:13	X																			
680-87218-17	1	T	11:13	X																			
680-87218-18	1	T	11:13	X																			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Instrument ID: NOEQUIP Method: Moisture

Start Date: 02/10/2013 12:12 End Date: 02/10/2013 12:12

Lab Sample ID	D/F	Type	Time	Analytes																			
				Moist																			
LCS 660-134293/1	1	T	12:12	X																			
680-87218-19	1	T	12:12	X																			
680-87218-20	1	T	12:12	X																			
ZZZZZZ			12:12																				
ZZZZZZ			12:12																				
ZZZZZZ			12:12																				
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ZZZZZZ			12:12																				
ZZZZZZ			12:12																				

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Tampa Job No.: 680-87218-1

SDG No.: 68087218-1

Batch Number: 134284 Batch Start Date: 02/09/13 11:13 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
LCS 660-134284/1		Moisture		1	0 g	5.04 g	5.04 g		
680-87218-A-1	CV0127A-CS-SP	Moisture	T	4	0 g	5.00 g	4.05 g		
680-87218-A-2	CV0127B-CS-SP	Moisture	T	5	0 g	5.68 g	3.36 g		
680-87218-A-3	CV0800A-CS-SP	Moisture	T	6	0 g	5.05 g	3.86 g		
680-87218-A-4	CV0966A-CS-SP	Moisture	T	7	0 g	5.44 g	3.91 g		
680-87218-A-5	CV0966B-CS-SP	Moisture	T	8	0 g	5.25 g	3.05 g		
680-87218-A-6	HP0325A-CS-SP	Moisture	T	9	0 g	5.08 g	3.25 g		
680-87218-A-7	HP0325B-CS-SP	Moisture	T	10	0 g	5.19 g	4.38 g		
680-87218-A-8	CV0966C-CS-SP	Moisture	T	11	0 g	5.49 g	4.26 g		
680-87218-A-9	CV0748A-CS	Moisture	T	12	0 g	5.15 g	3.76 g		
680-87218-A-10	CV0748A-CSD	Moisture	T	13	0 g	5.32 g	3.38 g		
680-87218-A-11	CV0748B-CS	Moisture	T	14	0 g	5.02 g	3.57 g		
680-87218-A-12	CV0748B-CSD	Moisture	T	15	0 g	5.80 g	3.79 g		
680-87218-A-13	CV0748C-CS	Moisture	T	16	0 g	5.26 g	4.07 g		
680-87218-A-14	CV0748C-CSD	Moisture	T	17	0 g	5.33 g	3.48 g		
680-87218-A-15	CV0748D-CS	Moisture	T	18	0 g	5.21 g	3.51 g		
680-87218-A-16	CV0748D-CSD	Moisture	T	19	0 g	5.07 g	3.40 g		
680-87218-A-17	CV0748E-CS	Moisture	T	20	0 g	5.00 g	3.07 g		
680-87218-A-18	CV0748F-CS	Moisture	T	21	0 g	5.56 g	3.88 g		

Batch Notes	
Balance ID	2 No Unit
Date samples were placed in the oven	2.9.13
Time samples were place in the oven	1200

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.: 680-87218-1

SDG No.: 68087218-1

Batch Number: 134293 Batch Start Date: 02/10/13 12:12 Batch Analyst: Office, Trey

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
LCS 660-134293/1		Moisture		1	0 g	5.05 g	5.07 g		
680-87218-A-19	CV0748G-CS	Moisture	T	2	0 g	5.61 g	4.99 g		
680-87218-A-20	CV0748H-CS	Moisture	T	3	0 g	5.30 g	4.87 g		

Batch Notes	

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 59510

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	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	2005148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Haney		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
R. Henderson	6783555550	

CLIENT NAME	CLIENT E-MAIL
OTIE	klkrebs@otie.com

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 1 OF 5

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS / PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	1,2,3,4	BCDA 8									REMARKS
2/5/13	1014	CV0127A-CS-SP	C	✓				X										
	1024	CV0127B-CS-SP	C	✓				X										
	0940	CV0800A-CS-SP	C	✓				X	X									
	0922	CV0916A-CS-SP	C	✓				X										
	0936	CV0916B-CS-SP	C	✓				X	X									
	0855	HP0325A-CS-SP	C	✓				X										
	0900	HP0325B-CS-SP	C	✓				X										
	0940	CV0916C-CS-SP	C	✓				X										
	0931	CV0748A-CS	C	✓				X										
	0933	CV0748A-CSD	C	✓				X										
	0935	CV0748B-CS	C	✓				X										
	0937	CV0748B-CSD	C	✓				X										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/6/13	1800						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/07/13	0937	YES ○ NO ○		680 87218	H.6°C

TAL8240-680 (1008)

Serial Number 59511

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	PROJECT NO.	PROJECT LOCATION (STATE)
35th Ave Removal	205148-1356	AL

TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Lisa Harvey		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
R. Henderson	6783555550	

CLIENT NAME	CLIENT E-MAIL
OTIE	LKrebs@otie.com

CLIENT ADDRESS

COMPANY CONTRACTING THIS WORK (if applicable)

PAGE 2 OF 5

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: LLPAH, RCRA 8

PRESERVATIVE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	LLPAH	RCRA 8	REMARKS
2/5/13	0950	CU0748C-CS	C		✓			X		
	0951	CU0748C-CSD	C		✓			X		
	0956	CU0748D-CS	C		✓			X		
	0958	CU0748D-CSD	C		✓			X		
	1024	CU0748E-CS	C		✓			X		
	1027	CU0748F-CS	C		✓			X		
	1035	CU0748G-CS	C		✓			X		
	1302	CU0748H-CS	C		✓			X		
	1300	CU0748I-CS	C		✓			X	X	
	1318	CU0748J-CS	C		✓			X		
	1322	CU0748K-CS	C		✓			X		
	1329	CU0748L-CS	C		✓			X		

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	2/6/13	1800						

RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	02/07/13	0937	YES ○ NO ○		680 87210	4.6°C

TAL8240-680 (1008)

02/20/2013

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87218-1
SDG Number: 68087218-1

Login Number: 87218
List Number: 1
Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-87218-1
SDG Number: 68087218-1

Login Number: 87218
List Number: 1
Creator: Snead, Joshua

List Source: TestAmerica Tampa
List Creation: 02/08/13 11:33 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	