SHEALY ENVIRONMENTAL SERVICES

SOM02.3 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

This Sample Data Package includes data of all analysis requested For each particular Case/SDG.

The Sample Data Package will include:

- SDG Cover Page
- Traffic Report/Chain of Custody
- Sample Log-In Sheet (DC-1)
- CSF Inventory Sheet (DC-2)
- SDG Narrative

The following analysis are included in this package, if applicable:

- Trace Volatile Data
- Volatile Data
- Semivolatile Data
- Semivolatile-sim Data
- Pesticide Data
- Aroclors (PCB) Data
- Herbicide Data
- Miscellaneous Data

9754875

SDG Cover Sheet, TR/COC, DC-1, DC-2

SDG COVER PAGE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1,2545.1 SDG No.: F6R29

SOW No.: SOM02.3

EPA Sample No.	Lab Sample ID	Analysis Method: Trace VOA	Low Med VOA	SVOA	SVOA SIM	PEST	ARO
F6R29	QL16010-001	X		X	X		
F6R30	QL16010-009			X	X		
F6R32	QL16010-002	X		X	X		
F6R33	QL16010-003	X		X	X		
F6R34	QL16010-004	X		X	X		
F6R35	QL16010-005	X		X	X		
F6R36	QL16010-006	X		X	X		
F6R39	QL16010-007	X					

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Managerś designee, as verified by the following signature.

Signature: _____ Name: Robert Zhu

Date: 01/06/2016 Title: Technical Director

Contract Laboratory Program

Sample Delivery Group (SDG) Definition Sheet

SDG Number	F6R29	Case Number	45671	Contract Number	EPW14035
Lab Code	EQI	SDG Turnaround	21 days	Delivery CLIN(s)	n/a

First Sample Received in SDG	F6R29	Last Sample Received in SDG	F6R39
First Sample Receipt Date	12/16/2015	Last Sample Receipt Date	12/16/2015

USEPA Sample Numbers in SDG (Listed in Numerical Order)

	CLP Sample ID	Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
1	F6R29	Water	TV, TVSIM, SVOA, SVSIM	2655A	2544.1, 2545.1
2	F6R30	Water	SVOA, SVSIM	2655A	2544.1
3	F6R32	Water	TV, TVSIM, SVOA, SVSIM	2655A	2544.1, 2545.1
4	F6R33	Water	TV, TVSIM, SVOA, SVSIM	2655A	2544.1, 2545.1
5	F6R34	Water	TV, TVSIM, SVOA, SVSIM	2655A	2544.1, 2545.1
6	F6R35	Water	TV, TVSIM, SVOA, SVSIM	2655A	2544.1, 2545.1
7	F6R36	Water	TV, TVSIM, SVOA, SVSIM	2655A	2544.1, 2545.1
8	F6R39	Water	TV, TVSIM	2655A	2545.1
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

12/18/15

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).*

Signature _____ Date 12/18/15

F6R29

USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 6-121515-120716-0021

DateShipped: 12/15/2015
CarrierName: FedEx
AirbillNo: 859483220226

Case #: 45671
Cooler #: EPW14535

Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0030	F6R29	Ground Water/ SERAS	Grab	TVOAw/TVOASIM(21)	1210 (HCl 4 C), 1211 (HCl 4 C), 1212 (HCl 4 C), 1213 (HCl 4 C) (4)	TF-34-DISCH	12/14/2015 10:30	
277-0033	F6R32	Ground Water/ SERAS	Grab	TVOAw/TVOASIM(21)	1247 (HCl 4 C), 1248 (HCl 4 C) (2) *	AA-GW-03	12/14/2015 11:45	
277-0034	F6R33	Ground Water/ SERAS	Grab	TVOAw/TVOASIM(21)	1255 (HCl 4 C), 1256 (HCl 4 C), 1257 (HCl 4 C), 1258 (HCl 4 C) (4)	TF-34-01	12/14/2015 13:00	
277-0035	F6R34	Ground Water/ SERAS	Grab	TVOAw/TVOASIM(21)	1265 (HCl 4 C), 1266 (HCl 4 C), 1267 (HCl 4 C), 1268 (HCl 4 C) (4)	LOR-18	12/14/2015 12:00	
277-0036	F6R35	Surface Water/ SERAS	Grab	TVOAw/TVOASIM(21)	1275 (HCl 4 C), 1276 (HCl 4 C), 1277 (HCl 4 C), 1278 (HCl 4 C) (4)	POND DISCH	12/14/2015 14:00	
277-0037	F6R36	Surface Water/ SERAS	Grab	TVOAw/TVOASIM(21)	1285 (HCl 4 C), 1286 (HCl 4 C), 1287 (HCl 4 C), 1288 (HCl 4 C) (4)	FD-04	12/14/2015 14:00	
277-0042	F6R39	Blank/ SERAS		TVOAw/TVOASIM(21)	1299 (HCl 4 C), 1300 (HCl 4 C), 1305 (HCl 4 C), 1306 (HCl 4 C) (4)	TB-05	12/15/2015 11:30	

Special Instructions: * INSUFFICIENT WELL VOLUME AVAILABLE

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: TVOAw/TVOASIM=TVOA by SOM02.3 /TVOASIM by SOM02.3 and MA#2545.1 (water)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Analysis	LM SERAS	12/15/15 12:00			
				12/16/15 1106	OK

SDG F6R29 Filt/Sample

T=4.0

F6R29

USEPA CLP COC (LAB COPY)

DateShipped: 12/15/2015

CarrierName: FedEx

AirbillNo: 859483220237

CHAIN OF CUSTODY RECORD

Case #: 45671

Cooler #: ORW14035

No: 6-121515-105613-0017

Lab: Shealy Environmental Services - EQI

Lab Contact: Brad Belding

Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0030	F6R29	Ground Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1214 (4 C), 1215 (4 C), 1216 (4 C), 1217 (4 C) (4)	TF-34-DISCH	12/14/2015 10:30	
277-0036	F6R35	Surface Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1279 (4 C), 1280 (4 C), 1281 (4 C), 1282 (4 C) (4)	POND DISCH	12/14/2015 14:00	
277-0037	F6R36	Surface Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1289 (4 C), 1290 (4 C), 1291 (4 C), 1292 (4 C) (4)	FD-04	12/14/2015 14:00	

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: SVOAw/SVOASIM=SVOA/SVOASIM by SOM02.3 and MA#2544.1 (water)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL/ANALYSIS	LM SERAS	12/15/15 10:20			
				12/16/15 1106	ok

T=7.0

F6R29

USEPA CLP COC (LAB COPY)

DateShipped: 12/15/2015
CarrierName: FedEx
AirbillNo: 859483220190

CHAIN OF CUSTODY RECORD

Case #: 45671
Cooler #: 12PW14035

No: 6-121515-115941-0020

Lab: Shealy Environmental Services - EQI
Lab Contact: Brad Belding
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
277-0031	F6R30	Ground Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1227 (4 C), 1228 (4 C), 1229 (4 C) (3)	AA-GW-01	12/14/2015 11:00	
277-0033	F6R32	Ground Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1249 (4 C), 1250 (4 C) (2)	AA-GW-03	12/14/2015 11:45	
277-0034	F6R33	Ground Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1259 (4 C), 1260 (4 C), 1261 (4 C) (3)	TF-34-01	12/14/2015 13:00	
277-0035	F6R34	Ground Water/ SERAS	Grab	SVOAw/SVOASIM(21)	1269 (4 C), 1270 (4 C), 1271 (4 C), 1272 (4 C) (4)	LOR-18	12/14/2015 12:00	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: SVOAw/SVOASIM=SVOA/SVOASIM by SOM02.3 and MA#2544.1 (water)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AW/ANALYSIS	LM SERAS	12/15/15 12:00			
				12/16/15 1106	OK

T=2.6

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Mariela Monge		Log-in Date 12/16/15
Case Number 45671	SDG No. FLGK29	MA No. 2544.1

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8594832202237
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	7.0
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	12/16/15
12. Time Received	1106

	EPA Sample #	Corresponding: Sample Tag #	Corresponding: Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	FLGK29	MA	QL16010-001	OK
2	FLGK35	"	-005	"
3	FLGK36	"	-006	"
4				
5				
6				
7				
8				
9				
10				
11			mcm 12/16/15	
12				
13				
14				
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16				
17				
18				
19				
20				
21				
22				

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. MA
Date 12/16/15	Logbook Page No. MA

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		
Received By (Print Name) Mariela Monje		Page 1 of 1
Received By (Signature)		Log-in Date 12/16/15
Case Number 45671	SDG No. FLK29	MA No. 2544.1

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8894232 0190
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	8.6
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	12/16/15
12. Time Received	1106

	EPA Sample #	Corresponding: Sample Tag #	Corresponding: Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	FLK30	MA	OL16010 -002	OK
2	FLK32		-003	
3	FLK33		-004	
4	FLK34		-009	
5				
6				
7				
8				
9				
10				
11				
12			mcm 12/16/15	
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17				
18				
19				
20				
21				
22				

* Contact SMO and attach record of resolution

Reviewed By MN	Logbook No. NA
Date 12/16/15	Logbook Page No. NA

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Mariela Monge		Log-in Date 12/16/15
Received By (Signature)		
Case Number 45671	SDG No. F6K29	MA No. 29415.1

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	858942322 0226
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	4.0
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	12/16/15
12. Time Received	1106

	EPA Sample #	Corresponding: Sample Tag #	Corresponding: Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	F6K29	NA	QW16010-001	Ok
2	F6K32		-002	
3	F6K33		-003	
4	F6K34		-004	
5	F6K35		-005	
6	F6K36		-006	
7	F6K39		-007	
8				
9				
10				
11				
12				
13				
14			mcm 12/16/15	
15				
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21				
22				

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. NA
Date 12/16/15	Logbook Page No. NA

FORM DC-2
FULL ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME Shealy Environmental Services

LAB CODE EQI

CONTRACT NO. EPW-14-035

CASE NO. 45671 SDG NO. F6R29

MA NO. 2544.1, 2545.1

SOW NO. SOM02.3

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

		PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
1.	SDG Cover Page	1	4		
2.	Traffic Report/Chain of Custody Record(s)	5	7		
3.	Sample Log-In Sheet (DC-1)	8	10		
4.	CSF Inventory Sheet (DC-2)	11	17		
5.	SDG Narrative	18	41		
Organic Analysis					
Trace Volatiles					
	Quality Control Summary	42	55	X	
6.	Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR)	44	46	X	
7.	Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by the EPA Region)	N/A	N/A	X	
8.	Method Blank Summary (Form 4-OR)	47	49	X	
9.	GC/MS Instrument Performance Check (Form 5-OR)	50	52	X	
10.	Internal Standard Area and Retention Summary (Form 8A-OR)	53	55	X	
	Sample Data	56	242	X	
11.	TAL Results – Organic Analysis Data Sheet (Form 1A-OR)	X	X		
12.	Tentatively Identified Compounds (Form 1B-OR)	X	X		
13.	Raw Data for Each Sample:	X	X		
	Reconstructed total ion chromatograms (RICs) for each sample	X	X		
	Raw Spectra and background-subtracted mass spectra of target analytes identified	X	X		
	Quantitation Reports	X	X		

FORM DC-2
ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
	Mass Spectra of all reported TICs with three best library matches	X	X		
	Standards Data (All Instruments)	243	312	X	
14.	GC/MS Initial Calibration Data (Form 6A-OR)	X	X		
15.	RICs and Quantitation Reports for all Standards	X	X		
16.	Continuing Calibration Verification for GC/MS (Form 7A-OR)	X	X		
17.	RICs and Quantitation Reports for all Standards	X	X		
	Quality Control Data	313	367	X	
18.	Performance Check	314	320	X	
19.	Blank Data	321	358	X	
20.	Matrix Spike/Matrix Spike Duplicate Data (Form 3A-OR) (if requested by the EPA Region)	N/A	N/A	X	
21.	Original preparation and analysis forms or copies of preparation and analysis logbook pages (including screening records if applicable)	359	367	X	
Low-Medium Volatiles					
	Quality Control Summary	N/A	N/A	X	
22.	Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR)	N/A	N/A	X	
23.	Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by the EPA Region)	N/A	N/A	X	
24.	Method Blank Summary (Form 4-OR)	N/A	N/A	X	
25.	GC/MS Instrument Performance Check (Form 5-OR)	N/A	N/A	X	
26.	Internal Standard Area and Retention Time Summary (Form 8A-OR)	N/A	N/A	X	
	Sample Data	N/A	N/A	X	
27.	TAL Results – Organic Analysis Data Sheet (Form 1A-OR)	X	X		
28.	Tentatively Identified Compounds (Form 1B-OR)	X	X		
29.	Raw Data for Each Sample:	X	X		
	Reconstructed total ion chromatograms (RICs) for each sample	X	X		
	Raw Spectra and background-subtracted mass spectra of target analytes identified	X	X		
	Quantitation Reports	X	X		
	Mass Spectra of all reported TICs with three best library matches	X	X		

FORM DC-2
ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
	Standards Data (All Instruments)	N/A	N/A	X	
30.	GC/MS Initial Calibration Data (Form 6A-OR)	X	X		
31.	RICs and Quantitation Reports for all Standards	X	X		
32.	Continuing Calibration Verification for GC/MS (Form 7A-OR)	X	X		
33.	RICs and Quantitation Reports for all Standards	X	X		
	Quality Control Data	N/A	N/A	X	
34.	Performance Check	N/A	N/A	X	
35.	Blank Data	N/A	N/A	X	
36.	Matrix Spike/Matrix Spike Duplicate Data (if requested by the EPA Region)	N/A	N/A	X	
37.	Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable)	N/A	N/A	X	
Semivolatiles					
	Quality Control Summary	642	661	X	
38.	Deuterated Monitoring Compound Recovery (Form 2A-OR and Form 2B-OR)	644	646	X	
39.	Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR) (if requested by the EPA Region)	N/A	N/A	X	
40.	Method Blank Summary (Form 4-OR)	647	649	X	
41.	GC/MS Instrument Performance Check (Form 5-OR)	650	654	X	
42.	Internal Standard Area and Retention Time Summary (Form 8A-OR)	655	661	X	
	Sample Data	662	995	X	
43.	TAL Results – Organic Analysis Data Sheet (Form 1A-OR)	X	X		
44.	Tentatively Identified Compounds (Form 1B-OR)	X	X		
45.	Raw Data for Each Sample:	X	X		
	Reconstructed total ion chromatograms (RICs) for each sample	X	X		
	Raw Spectra and background-subtracted mass spectra of target analytes identified	X	X		
	Quantitation Reports	X	X		
	Mass Spectra of all reported TICs with three best library matches	X	X		
	GPC chromatograms (if GPC is required)	X	X		

FORM DC-2
ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
	Standards Data (All Instruments)	996	1091	X	
46.	GC/MS Initial Calibration Data (Form 6A-OR)	X	X		
47.	RICs and Quantitation Reports for all Standards	X	X		
48.	Continuing Calibration Verification for GC/MS (Form 7A-OR)	X	X		
49.	RICs and Quantitation Reports for all Standards	X	X		
	Quality Control Data	1092	1151	X	
50.	Performance Check	1093	1113	X	
51.	Blank Data	1114	1141	X	
52.	Matrix Spike/Matrix Spike Duplicate Data (if requested by the EPA Region)	N/A	N/A	X	
53.	Raw GPC Data	N/A	N/A	X	
54.	For SIM analysis (if requested), at the same sequence as listed above, except for that Form 1B-OR and TIC spectra data which are not required for SIM method.	1152	1322	X	
55.	Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable)	1142	1151	X	
Pesticides					
	Quality Control Summary	N/A	N/A	X	
56.	Surrogate Recovery (Form 2C-OR)	N/A	N/A	X	
57.	Matrix Spike/Matrix Spike Duplicate Recovery (Form 3A-OR each columns)	N/A	N/A	X	
58.	Laboratory Control Sample Recovery (Form 3B-OR for each column)	N/A	N/A	X	
59.	Method Blank Summary (Form 4-OR)	N/A	N/A	X	
	Sample Data	N/A	N/A	X	
60.	TAL Results – Organic Analysis Data Sheet (Form 1A-OR)	X	X		
61.	Raw Data for Each Sample:	X	X		
	Chromatograms (Primary Column)	X	X		
	Chromatograms (Secondary Column)	X	X		
	Quantitation Reports	X	X		
	Manual Worksheets	X	X		
62.	For Pesticides by GC/MS Confirmation:	X	X		
	Copies of raw spectra and copies of background-subtracted mass spectra of target analytes (samples & standards)	X	X		

FORM DC-2
ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs. FROM	PAGE NOs. TO	CHECK LAB	CHECK REGION
	Standards Data	N/A	N/A	X	
63.	Initial Calibration of Single Component Analytes (Form 6B-OR and 6C-OR)	X	X		
64.	Initial Calibration of Multicomponent Analytes (Form 6D-OR and 6E-OR)	X	X		
65.	Analyte Resolution Summary (Form 6G-OR)	X	X		
66.	Pesticide Performance Evaluation Mixture Calibration Verification Summary (Form 7B-OR)	X	X		
67.	Continuing Calibration Verification Summary (Form 7C-OR)	X	X		
68.	Multicomponent Continuing Calibration Verification Summary (Form 7D-OR)	X	X		
69.	Analytical Sequence (Form 8B-OR)	X	X		
70.	Florisil Cartridge Check (Form 9A-OR)	X	X		
71.	GPC Calibration Verification (Form 9B-OR)	X	X		
72.	Identification Summary for Single Component Analytes (Form 10A-OR)	X	X		
73.	Identification Summary for Multicomponent Analytes (Form 10B-OR)	X	X		
74.	Chromatograms and Quantitation Reports:	X	X		
	A printout of Retention Times and corresponding peak areas or peak heights	X	X		
	Quality Control Data	N/A	N/A	X	
75.	Blank Data	N/A	N/A	X	
76.	Matrix Spike/Matrix Spike Duplicate Data	N/A	N/A	X	
77.	Laboratory Control Sample	N/A	N/A	X	
78.	Raw GPC Data	N/A	N/A	X	
79.	Raw Florisil Data	N/A	N/A	X	
80.	Original preparation and analysis forms or copies of preparation and analysis logbook pages (including TCLP/SPLP logs, Percent Solid Determinations logs, and screening records if applicable)	N/A	N/A	X	
Aroclors					
	Quality Control Summary	N/A	N/A	X	
81.	Surrogate Recovery (Form 2C-OR)	N/A	N/A	X	
82.	Matrix Spike/Matrix Spike Duplicate Summary (Form 3A-OR)	N/A	N/A	X	
83.	Laboratory Control Sample Recovery (Form 3B-OR for each column)	N/A	N/A	X	
84.	Method Blank Summary (Form 4-OR)	N/A	N/A	X	

FORM DC-2
ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
	Sample Data	N/A	N/A	X	
85.	TAL Results – Organic Analysis Data Sheet (Form 1A-OR)	X	X		
86.	Raw Data for Each Sample:	X	X		
	Chromatograms (Primary Column)	X	X		
	Chromatograms (Secondary Column)	X	X		
	Quantitation Reports	X	X		
	Manual Worksheets	X	X		
87.	For Aroclors by GC/MS Confirmation:	X	X		
	Copies of raw spectra and copies of background-subtracted mass spectra of target analytes (samples & standards)	X	X		
	Standards Data	N/A	N/A	X	
88.	Initial Calibration of Multicomponent Analytes (Form 6D-OR, Form 6E-OR, and Form 6F-OR)	X	X		
89.	Multicomponent Continuing Calibration Verification Summary (Form 7D-OR)	X	X		
90.	Analytical Sequence (Form 8B-OR)	X	X		
91.	Identification Summary for Multicomponent Analytes (Form 10B-OR)	X	X		
92.	Chromatograms and data system printouts:	X	X		
	A printout of Retention Times and corresponding peak areas or peak heights	X	X		
	Quality Control Data	N/A	N/A	X	
93.	Blank Data	N/A	N/A	X	
94.	Matrix Spike/Matrix Spike Duplicate Data	N/A	N/A	X	
95.	Laboratory Control Sample (LCS) Data	N/A	N/A	X	
96.	Raw GPC Data (if performed)	N/A	N/A	X	
97.	Original preparation and analysis forms or copies of preparation and analysis logbook pages (including Percent Solid Determinations logs and screening records if applicable)	N/A	N/A	X	
Additional					
98.	EPA Shipping/Receiving Documents	1323	1329		
	Airbill (No. of Shipments #)	1324	1326		
	Sample Tags	N/A	N/A		
	Sample Log-In Sheet (Lab)	1327	1329		

FORM DC-2
ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

	PAGE NOs. FROM	TO	CHECK LAB	REGION
99. Misc. Shipping/Receiving Records (list all individual records)				
Communication Logs				
	N/A	N/A		
100. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	1330	1338		
101. PE/PT Instruction Forms	N/A	N/A		
102. Other Records (describe or list)	N/A	N/A		
Communication Logs				
SCRATH SHEET & EMAILS	1339	1342		
103. Comments:				

Completed by:
(CLP Lab) (Signature)

Robert Zhu, Technical Director (Print Name & Title)

01/06/2016 (Date)

Audited by:
(EPA)

(Signature) (Print Name & Title) (Date)

Narrative

Narrative

Manual Integration Form for each analysis

Calculation Sheets

Modified Analysis Instructions (if applicable)

Shealy Environmental Services, Inc.

SDG Narrative
01/04/2016
Case 45671
SDG F6R29
SOW: SOM02.3
Contract Number: EPW14035
Solicitation: 2655A
MA: 2544.1, 2545.1

Columns	TVOA/TVOA SIM/VOA DB-624, 30m x 0.25mm x 1.4um SVOA/SVOA SIM ZEBRON ZB-SV, 30m x 0.25mm x 0.5um
VOA Trap	OI #10

TVOA/VOA Equation	Water sample concentration (ug/L) = $\frac{(A_x)(I_s)(DF)}{(A_{is})(\overline{RRF})(V_o)}$ Soil sample concentration (ug/Kg) = $\frac{(A_x)(I_s)(DF)}{(A_{is})(\overline{RRF})(W_s)(D)}$ Where A_x is the area of the characteristic ion (EICP) for the compound to be measured. A_{is} is the area of the characteristic ion (EICP) for the internal standard. I_s is the amount of internal standard added, in ng. $\overline{RRF}$ is the mean relative response factor from the initial calibration. DF is the dilution factor. V_o is total volume of water purged, in mL. Ws is the weight of sample added to the purge tube in g. D = $\frac{100 - \%moisture}{100}$
SVOA/SVOA SIM Equation	Water sample concentration ug/L = $\frac{(A_x)(I_s)(V_t)(DF)(GPC)}{(A_{is})(\overline{RRF})(V_o)(V_i)}$ Soil sample concentration (ug/Kg) = $\frac{(A_x)(I_s)(V_t)(DF)(GPC)}{(A_{is})(\overline{RRF})(V_i)(W_s)(D)}$ Where A_x is the area of the characteristic ion (EICP) for the compound to be measured. A_{is} is the area of the characteristic ion (EICP) for the internal standard. I_s is the amount of internal standard added, in ng. $\overline{RRF}$ is the mean relative response factor from the initial calibration. DF is the dilution factor. GPC = V_{in}/V_{out}: GPC factor. V_{in} is the volume of extract loaded onto GPC column. V_{out} is the volume of extract collected after GPC cleanup. V_t is volume of the concentrated extract in uL. (If no GPC cleanup is performed, then V_t = 1000uL. If GPC cleanup is performed, then $V_t = V_{out}$.). V_i is the volume of the extract injected in uL. V_o: Volume of water extracted in mL W_s is the weight of sample extracted in g. D= $\frac{100 - \%Moisture}{100}$

Sample Receiving

The eight water samples in this SDG were received in sealed shipping containers on December 16, 2015. The cooler temperatures associated with these samples were 4, 9.6 and 7˚C.

The temperature was determined using a calibrated Fluke 66 IR thermometer.

TVOA Fraction

Sample F6R32 had strong smell of fuel with the vial cap on. It was black in color. It could not be stored in the same refrigerator with other trace samples. It was analyzed at 500X dilution after screening.

Sample F6R34 was only analyzed at 20X dilution due to large amount of fuel in the sample based on screening data.

The peak eluting at ~5.8min on MSD8 in all analyses is Pentafluorobenzene. This is an internal standard compound that is not being used for quantitation. This compound is not being identified as a TIC.

The peak eluting at ~8.3min on MSD8 in all analyses is an extra DMC in the standard that is not being used for quantitation. This compound is not being identified as a TIC.

See the attached Manual Integration Report for a listing of all manual integrations associated with the samples and standards in this SDG. Unless otherwise noted manual integrations were performed due to incorrect auto integration.

As per the SOW, an example calculation is attached for Vinyl Chloride-d_3 in samples F6R29.

TVSIM Fraction

Due to low level concentration of Chloroform present in reagent water, the initial calibration, continuing calibration, method blank and LCS failed to meet acceptance criteria for Chloroform.

Sample F6R32 had strong smell of fuel with the vial cap on. It was black in color. It could not be stored in the same refrigerator with other trace samples. It was analyzed at 500X dilution after screening.

Sample F6R34 was only analyzed at 5X dilution due to over range target compound concentration in scan analysis.

See the attached Manual Integration Report for a listing of all manual integrations associated with the samples and standards in this SDG. Unless otherwise noted manual integrations were performed due to incorrect auto integration.

As per the SOW, an example calculation is attached for Benzene-d6 in samples F6R29.

BNA Fraction

The concentration of 2,4-Dimethylphenol in method blank SBLK47 was above CRQL, possibly due to the high concentration of this analyte in sample F6R32, which required 2000X dilution. All samples, with the exception of F6R32, were re-extracted and re-analyzed. Both the initial and re-analysis are reported. The re-extraction was performed outside contract required holding time.

Samples F6R30, F6R32, F6R33 and F6R34 were only analyzed at dilutions due to sample matrix.

See the attached Manual Integration Report for a listing of all manual integrations associated with the samples and standards in this SDG. Unless otherwise noted manual integrations were performed due to incorrect auto integration.

As per the SOW, an example calculation is attached for Phenol-d_5 in sample F6R29.

BNA SIM Fraction

To meet the requirement of MA 2544.1, 2uL injections were used. A 6-point calibration was performed.

The concentration of 1,4-Dioxane was above CRQL. This analyte was not detected in the associated samples at above CRQL level. No further corrective action was taken.

Samples F6R30, F6R32, F6R33 and F6R34 were only analyzed at dilutions due to sample matrix.

See the attached Manual Integration Report for a listing of all manual integrations associated with the samples and standards in this SDG. Unless otherwise noted manual integrations were performed due to incorrect auto integration.

As per the SOW, an example calculation is attached for 1,4-Dioxane-d8 in sample F6R29.

MANUAL INTEGRATION REPORT
VOA_TRACE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

EPA SAMPLE NO.	Column 1 DB-624 0.25(mm)	
F6R32	Acetone	
F6R36	Acetone	
VSTD0.5RN	1,1-Dichloroethene	
	Methyl acetate	
	Cyclohexane	
	1,2-Dichloroethane	
	1,2-Dichloropropane	
	1,2-Dibromoethane	
	Bromoform	
	1,2-Dibromo-3-chloropropane	
	Vinyl Chloride-d3	
VSTD001RN	1,1,2-Trichloro-1,2,2-Trifluoroethane	
	1,2-Dichloropropane	
	1,2-Dibromoethane	

MANUAL INTEGRATION REPORT
SVOA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

EPA SAMPLE NO.	Column 1 Zebron ZB-SV 0.25(mm)	
F6R32	Phenol	

Page: 1 of 1

MANUAL INTEGRATION REPORT
VOA_SIM

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

EPA SAMPLE NO.	Column 1 DB-624 0.25(mm)	
F6R29	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloroethane-d4	
	1,2-Dichloropropane-d6	
F6R32	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloropropane-d6	
F6R33	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloroethane-d4	
	1,2-Dichloropropane-d6	
F6R34	Chlorobenzene-d5	
	1,4-Difluorobenzene	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloropropane-d6	
F6R35	Chlorobenzene-d5	
	1,4-Difluorobenzene	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloropropane-d6	
F6R36	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloroethane-d4	
	1,2-Dichloropropane-d6	
F6R39	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloroethane-d4	
	1,2-Dichloropropane-d6	
VHBLK01	1,4-Dichlorobenzene-d4	
	1,2-Dichloropropane-d6	
VSTD0.05SK	1,2-Dichloroethane	
	cis-1,3-Dichloropropene	
	1,1,2-Trichloroethane	
	2-Hexanone	
	1,2-Dibromoethane	
	1,4-Dichlorobenzene	
	1,2,4-Trichlorobenzene	

MANUAL INTEGRATION REPORT
VOA_SIM

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

EPA SAMPLE NO.	Column 1 DB-624 0.25(mm)	
	1,2,3-Trichlorobenzene	
	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	Chloroform-d	
	1,2-Dichloroethane-d4	
	Benzene-d6	
	1,2-Dichloropropane-d6	
	trans-1,3-Dichloropropene-d4	
	2-Hexanone-d5	
	1,1,2,2-Tetrachloroethane-d2	
	1,2-Dichlorobenzene-d4	
VSTD0.1SK	1,2-Dichloroethane	
	2-Hexanone	
	1,2-Dibromoethane	
	1,4-Dichlorobenzene	
	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	Chloroform-d	
	1,2-Dichloroethane-d4	
	1,2-Dichloropropane-d6	
	2-Hexanone-d5	
	1,2-Dichlorobenzene-d4	
VSTD0.5SK	2-Hexanone	
	1,2-Dibromoethane	
	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloroethane-d4	
	1,2-Dichloropropane-d6	
	1,2-Dichlorobenzene-d4	
VSTD1.0SK	2-Hexanone	
	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloropropane-d6	
	1,2-Dichlorobenzene-d4	
VSTD2.0SK	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	

MANUAL INTEGRATION REPORT
VOA_SIM

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

EPA SAMPLE NO.	Column 1 DB-624 0.25(mm)	
	1,2-Dichloropropane-d6	
	1,2-Dichlorobenzene-d4	
VBLKSK	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloropropane-d6	
VLCSSK	Carbon tetrachloride	
	1,2-Dichloroethane	
	cis-1,3-Dichloropropene	
	1,1,2-Trichloroethane	
	2-Hexanone	
	1,2-Dibromoethane	
	1,4-Dichlorobenzene	
	1,2,4-Trichlorobenzene	
	1,2,3-Trichlorobenzene	
	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloropropane-d6	
VSTD0.5SY	1,2-Dichloroethane	
	2-Hexanone	
	1,2-Dibromoethane	
	1,2-Dibromo-3-chloropropane	
	Chlorobenzene-d5	
	1,4-Difluorobenzene	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloropropane-d6	
VBLKTC	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloropropane-d6	
VSTD0.5TC	1,2-Dichloroethane	
	2-Hexanone	
	1,2-Dibromoethane	
	1,4-Dichlorobenzene	
	1,2-Dibromo-3-chloropropane	
	Chlorobenzene-d5	
	1,4-Difluorobenzene	
	1,4-Dichlorobenzene-d4	

MANUAL INTEGRATION REPORT
VOA_SIM

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

EPA SAMPLE NO.	Column 1 DB-624 0.25(mm)	
	1,2-Dichloroethane-d4	
	1,2-Dichloropropane-d6	
VSTD0.5VU	2-Hexanone	
	1,2-Dibromoethane	
	1,2-Dichloropropane-d6	
VBLKVU	1,4-Dichlorobenzene-d4	
	1,2-Dichloropropane-d6	
VSTD0.5VX	2-Hexanone	
	1,2-Dibromoethane	
	Chlorobenzene-d5	
	1,4-Dichlorobenzene-d4	
	1,2-Dichloropropane-d6	

MANUAL INTEGRATION REPORT
SVOA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

EPA SAMPLE NO.	Column 1 Zebron ZB-SV 0.25(mm)	
F6R32	Phenol	

Page: 1 of 1

MANUAL INTEGRATION REPORT
SVOA_SIM

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

EPA SAMPLE NO.	Column 1 Zebron ZB-SV 0.25(mm)	
F6R29	Dibenzofuran	
F6R33	Acenaphthene	
F6R33RE	Acenaphthene	
F6R34	Dibenzofuran	
SSTD.05ON	2,6-Dinitrotoluene	
SSTD0.1ON	2,6-Dinitrotoluene	
SSTD0.2PF	2,6-Dinitrotoluene	
SSTD0.2PH	2,6-Dinitrotoluene	

CASE: **45671**
SDG: **F6R29**

Example Calculation for the Trace Volatile Fraction

RRF Calculation

RRF=(Ax*Cis)/(Ais*Cx)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Cis=Concentration of the internal standard
Cx=Concentration of the compound to be measured

Example: Vinyl Chloride-d_3 from VSTD005RU

Ax=	40605
Ais=	268550
Cis=	125
Cx=	125
RRF=	**0.15120**

Mean RRF from ICAL **0.14276**

Concentration Calculation

Concentration (ug/L)=(Ax*Is*Df)/(Ais*RRF*Vo)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Is=Amount of the internal standard added, in nanograms
Mean RRF=Relative response factor from the Initial calibration standard
Vo=Total volume of water purged, in milliliters
Df=Dilution factor

Example: Vinyl Chloride-d_3 from F6R29

Ax=	41935
Ais=	256116
Is=	125
Mean RRF=	0.14276
Vo=	25
Df=	1
Concentration (ug/L)=	**5.735**

CASE: **45671**
SDG: **F6R29**

Example Calculation for the Trace Volatile SIM Fraction

RRF Calculation

RRF=(Ax*Cis)/(Ais*Cx)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Cis=Concentration of the internal standard
Cx=Concentration of the compound to be measured

Example:	**Benzene-d6 from**	**VSTD0.5SY**
	Ax=	17695
	Ais=	12349
	Cis=	12.5
	Cx=	12.5
	RRF=	**1.4329**

Mean RRF from ICAL **1.3473**

Concentration Calculation

Concentration (ug/L)=(Ax*Is*Df)/(Ais*RRF*Vo)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Is=Amount of the internal standard added, in nanograms
Mean RRF=Relative response factor from the Initial calibration standard
Vo=Total volume of water purged, in milliliters
Df=Dilution factor

Example:	**Benzene-d6 from**	**F6R29**
	Ax=	20546
	Ais=	15101
	Is=	12.5
	Mean RRF=	1.3473
	Vo=	25
	Df=	1

Concentration (ug/L)= **0.505**

CASE: **45671**
SDG: **F6R29**

Example Calculation for the BNA Fraction

RRF Calculation

RRF=(Ax*Cis)/(Ais*Cx)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Cis=Concentration of the internal standard
Cx=Concentration of the compound to be measured

Example: **Phenol-d_5 from** **SSTD020OW**

Ax=	870124
Ais=	478233
Cis=	20
Cx=	20
RRF=	**1.819**

Mean RRF from ICAL **1.832**

Concentration Calculation

Concentration (ug/L)=(Ax*Is*Df)/(Ais*RRF*Vo)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Is=Amount of the internal standard added, in nanograms
Mean RRF=Relative response factor from the Initial calibration standard
Vo=Total volume of water extracted, in liters
Df=Dilution factor

Example: **Phenol-d_5 from** **F6R29**

Ax=	821086
Ais=	319591
Is=	20
Mean RRF=	1.832
Vo=	1.01
Df=	1

Concentration (ug/L)= **27.771**

CASE: **45671**
SDG: **F6R29**

Example Calculation for the BNA SIM Fraction

RRF Calculation

RRF=(Ax*Cis)/(Ais*Cx)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Cis=Concentration of the internal standard
Cx=Concentration of the compound to be measured

Example: **1,4-Dioxane-d8 from** **SSTD0.2PF**

Ax=	47988
Ais=	74379
Cis=	0.4
Cx=	0.4
RRF=	**0.64518**

Mean RRF from ICAL **0.57405**

Concentration Calculation

Concentration (ug/L)=(Ax*Is*Df)/(Ais*RRF*Vo)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Is=Amount of the internal standard added, in nanograms
Mean RRF=Relative response factor from the Initial calibration standard
Vo=Total volume of water extracted, in liters
Df=Dilution factor

Example: **1,4-Dioxane-d8 from** **F6R29**

Ax=	12983
Ais=	70885
Is=	0.4
Mean RRF=	0.57405
Vo=	1
Df=	1

Concentration (ug/L)= **0.12762**

Date: 11/09/2015	**MA:** 2544.1	**Title:** SVOA SIM Analysis with Additional Analytes and at Lower CRQLs
Method Source: SOM02.3	**Method:** Semivolatiles by SIM	
Matrix: Soil and Water		

Summary of Modification

The purpose of this modified analysis is to analyze soil and water samples using Selective Ion Monitoring (SIM) for the complete target analyte list (TAL) specified for SVOA SIM in Exhibit C with additional SVOA SIM target analytes at the specified CRQLs in Section I. The Laboratory shall proceed to the SVOA SIM analysis for any sample analyzed by the full scan analysis with any of the analytes in Section I that is either not detected or detected at concentration below the adjusted CRQL in the full scan analysis (reported with either "U" or "J" Lab Qualifier). Unless specified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications **Not applicable** ☐

Analyte	CAS Number	Water CRQL (ug/L)	Soil CRQL (ug/kg)
Naphthalene	91-20-3	0.050	1.7
2-Methylnaphthalene	91-57-6	0.050	1.7
Acenaphthylene	208-96-8	0.050	1.7
Acenaphthene	83-32-9	0.050	1.7
Fluorene	86-73-7	0.050	1.7
Pentachlorophenol	87-86-5	0.10	3.3
Phenanthrene	85-01-8	0.050	1.7
Anthracene	120-12-7	0.050	1.7
Fluoranthene	206-44-0	0.050	1.7
Pyrene	129-00-0	0.050	1.7
Benzo (a) anthracene	56-55-3	0.050	1.7
Chrysene	218-01-9	0.050	1.7
Benzo (b) fluoroanthene	205-99-2	0.050	1.7
Benzo (k) fluoroanthene	207-08-9	0.050	1.7
Benzo (a) pyrene	50-32-8	0.050	1.7
Indeno (1,2,3-cd) pyrene	193-39-5	0.050	1.7

Dibenzo(a,h)anthracene	53-70-3	0.050	1.7
Benzo(g,h,i)perylene	191-24-2	0.050	1.7
1, 4-Dioxane*	123-91-1	0.10	3.3
Bis (2-chloroethyl) ether*	111-44-4	0.10	3.3
2,2'-Oxybis (1-chloropropane)*	108-60-1	0.10	3.3
N-Nitroso-di-n propylamine*	621-64-7	0.050	1.7
Hexachloroethane*	67-72-1	0.10	3.3
Nitrobenzene*	98-95-3	0.10	3.3
4-Chloroaniline*	106-47-8	0.10	3.3
Hexachlorobutadiene*	87-68-3	0.10	3.3
2,4,6-Trichlorophenol*	88-06-2	0.10	3.3
1,1'-Biphenyl*	92-52-4	0.050	1.7
2,6-Dinitrotoluene*	606-20-2	0.050	1.7
2,4-Dinitrophenol*	51-28-5	1.0	33
Dibenzofuran*	132-64-9	0.050	1.7
2,4-Dinitrotoluene*	121-14-2	0.050	1.7
4,6-Dinitro-2-methylphenol*	534-52-1	0.10	3.3
1,2,4,5-Tetrachlorobenzene*	95-94-3	0.10	3.3
Hexachlorobenzene*	118-74-1	0.050	1.7
Atrazine*	1912-24-9	0.10	3.3
3,3'-Dichlorobenzidine*	91-94-1	0.10	3.3

**Designated as additional target analyte.*

II. Calibration and QC Requirements **Not applicable** ☐

The Laboratory shall:

- Perform a five-point initial calibration to establish the linear calibration ranges on GC/MS for the target analytes in Section I. The recommended lowest ICAL standard concentrations are the same as specified for SVOA SIM analysis in the SOW with exceptions mentioned below.
- Add the additional target analytes, N-Nitroso-di-n-propylamine, 1,1'-Biphenyl, 2,6-Dinitrotoluene, Dibenzofuran, 2,4-Dinitrotoluene, and Hexachlorobenzene, at concentrations 0.10, 0.20, 0.40, 0.80, and 1.6 ng/uL to the original SVOA SIM ICAL standards.
- Add the additional target analytes, 1,4-Dioxane, Bis(2-chloroethyl)ether, 2,2'-Oxybis(1-chloropropane), Hexachloroethane, Nitrobenzene, 4-Chloroaniline, Hexachlorobutadiene, 2,4,6-Trichlorophenol, 4,6-Dinitro-2-methylphenol, 1,2,4,5-Tetrachlorobenzene, Atrazine, and 3,3'-Dichlorobenzidine, at concentrations 0.20, 0.40, 0.80, 1.6, and 3.2 ng/uL to the original SVOA SIM ICAL standards.
- Add the additional target analyte, 2,4-Dinitrophenol, at concentrations 2.0, 4.0, 8.0, 16, and 32 ng/uL to the original SVOA SIM ICAL standards.
- Perform the Continuing Calibration Verification (CCV) consisting at mid-point ICAL standard (CS3) at the same frequency as specified in the SOW.
- Optionally, analyze separate ICAL and CCV standards containing only the additional target analytes and the associated DMCs and IS's at the specified concentrations.
- Add the same DMC solution for the SVOA SIM analysis specified in the SOW at 0.10, 0.20, 0.40, 0.80 and 1.6 ng/uL to the separate ICAL standards.
- Add the additional DMCs, 1,4-Dioxane-d8, Bis(2-chloroethyl)ether-d8, 2,4-Dichlorophenol-d3, and Nitrobenzene-d5, at concentrations 0.20, 0.40, 0.80, 1.6, and 3.2 ng/uL to the separate ICAL standards.
- Add the IS solution, Including 1,4-Dichlorobenzene-d4 as IS1, for the SVOA SIM analysis at 0.40 ng/uL concentration to the separate ICAL and CCV standards.
- Note that ICAL/CCV RRF, ICAL Percent Relative Standard Deviation (%RSD) and CCV %D for the target analytes in Section I and the associated DMCs shall remain the same as specified for SVOA SIM analysis in the SOW.
- Note that the RRF for the additional analytes and DMCs shall be 0.010 or greater in all ICAL and CCV standards. ICAL %RSD for the additional analytes and DMCs shall not exceed 40.0%. For CCVs, the opening CCV % Difference (%D) for the additional analytes and DMCs shall not exceed +/-50.0%; for the closing CCV, the %D criteria shall be advisory.
- Use the specified IS's in Table 9 for the quantitation of the additional target analytes and DMCs. Use the Primary Quantitation Ions and one of the Secondary Ions listed in Table 8 for additional target analytes and DMCs.
- For the additional target analytes, refer to Table 3 for associated DMCs with the following exceptions: 4-Chloroaniline is associated with Nitrobenzene-d5; 1,1-Biphenyl, Dibenzofuran, Hexachlorobenzene, and Atrazine are associated with 2-Methylnaphthalene-d10; 2,4-Dinitrophenol and 4,6-Dinitro-2-methylphenol are associated with 2,4-Dichlorophenol-d3; and 3,3'-Dichlorobenzidine is associated with Fluoranthene-d10.
- Note that the technical acceptance criteria for IS's associated to the additional analytes and DMCs in Section I shall remain as specified for SVOA SIM analysis in the SOW.
- The percent recovery limits for additional DMCs (1,4-Dioxane-d8, Bis (2-chloroethyl) ether-d8,

2,4-Dichlorophenol-d3, Nitrobenzene-d5) are 10 to 150 for both water and soil samples. Besides these criteria, the technical acceptance criteria for DMCs associated to the additional analytes in Section I shall remain as specified for SVOA SIM analysis in the SOW.

- Prepare and analyze the method blank at the same frequency and sequence as specified in the SOW. The concentration of any analyte in Section I shall not exceed the CRQL in the method blank.
- Add the DMC solution including Bis (2-chloroethyl) ether-d8 and 2,4-Dichlorophenol-d3 to samples and blanks at the same concentration (0.40 ug) specified in the SOW. Add the DMC solution including 2-Methylnaphthalene-d10, Fluoranthene-d10, 1,4-Dioxane-d8, and Nitrobenzene-d5 to samples and blanks at ½ (0.20 ug) of the concentrations specified in the SOW.
- Add the IS solution, Including 1,4-Dichlorobenzene-d4 as IS1, to sample and blank extracts at the specified level in the SOW.
- Perform any required dilutions as specified in SOW.
- Note that all other technical acceptance criteria for ICALs, CCVs, blanks and samples remain the same as specified in the SOW.

III. Preparation and Method Modifications **Not applicable** ☐

The Laboratory shall:

- Perform an MDL study for the target analytes in Section I.
- Proceed to SVOA SIM analysis for any sample that are analyzed by the full scan analysis and with any of the analyte in Section I that is either not detected or detected at concentration below the adjusted CRQL in the full scan analysis (reported with either "U" or "J" Lab Qualifier).
- Note that the samples may be high in PAH analytes, which may cause interference. However, the Laboratory should make every effort to meet the CRQL, at least in the initial run. If this is not possible, the Laboratory shall contact SMO.
- Reduce the final extract volume to 0.50 mL (500 uL) instead of 1.0 mL specified in the SOW.
- Perform GPC clean up procedure as specified in the SOW.

IV. Special Reporting Requirements **Not applicable** ☐

The Laboratory shall:

- **Report the CRQLs listed in Section I, adjusted according to the equation listed in Exhibit D, even if the level of the corresponding target analytes in the low-point calibration standard is below the CRQLs listed in Section I.**
- Submit the MDL study results for all SOW target analytes and the additional target analytes in Section I as specified in the SOW. If the Laboratory has not previously submitted MDL results during the current contract year for the additional target analytes in Section I above, compliant MDL study results shall be submitted concurrently with the deliverables for this MA to the recipients specified in SOW Exhibit B, Table 1, Row G.
- Modify all applicable hardcopy forms to include the additional target analytes in Section I and DMCs. This includes Forms 1, 2, 6, and 7.

- Include the same information on the EDD as in the hardcopy.
- Note that TICs are not required to be reported.

Date: 11/09/2015	**MA:** 2545.1	**Title:** Trace Volatiles SIM Analysis
Method Source: SOM02.3	**Method:** Trace Volatiles by SIM	
Matrix: Water		

Summary of Modification

The purpose of this modified analysis is to require the Laboratory to analyze samples by the full scan method for the complete target analyte list at the CRQLs in Exhibit C, Section 1.0. The Laboratory shall proceed to Selected Ion Monitoring (SIM) analysis for any sample in which any of the target analytes in Section I is either undetected or detected at concentrations below the sample adjusted CRQL (laboratory qualifier is reported with a U or J flag) in the full scan analyses. The Laboratory shall achieve the CRQLs for the Trace Volatiles SIM target analytes specified in Section I. Unless specified by this modification, all analyses, Quality Control (QC), and reporting requirements specified in the SOW listed in your current EPA agreement remain unchanged and in full force and effect.

I. Analyte Modifications **Not applicable** ☐

Analyte	CAS Number	Water CRQL (ug/L)
1,1,2,2-Tetrachloroethane	79-34-5	0.050
1,1,2-Trichloroethane	79-00-5	0.050
1,2,3-Trichlorobenzene	87-61-6	0.050
1,2,4-Trichlorobenzene	120-82-1	0.050
1,2-Dibromo-3-chloropropane	96-12-8	0.050
1,2-Dibromoethane	106-93-4	0.050
1,2-Dichloroethane	107-06-2	0.050
1,2-Dichloropropane	78-87-5	0.050
1,4-Dichlorobenzene	106-46-7	0.050
2-Hexanone	591-78-6	0.50
Benzene	71-43-2	0.050
Bromodichloromethane	75-27-4	0.050
Carbon tetrachloride	56-23-5	0.050
Chloroform	67-66-3	0.050
cis-1,3-Dichloropropene	10061-01-5	0.050

II. Calibration and QC Requirements **Not applicable** ☐

The Laboratory shall:

- Analyze the lowest ICAL standard at concentrations equal to or less than the CRQLs for the target analytes in Section I.
- Perform a five-point initial calibration to establish the linear calibration ranges on GC/MS for the target analytes in Section I. The recommended ICAL standard concentrations are at 0.050, 0.10, 0.50, 1.0 and 2.0 ug/L for the analytes in Section I except analyte 2-Hexanone, which shall be at 0.50, 1.0, 5.0, 10 and 20 ug/uL concentrations.
- Add the same non-ketone DMC specified for Trace Volatiles analysis in the SOW at concentrations 0.050, 0.10, 0.50, 1.0 and 2.0 ug/L, and 2- Hexanone-d5 or the ketone DMC specified for trace Volatiles analysis at same ICAL concentrations for the target analyte 2-Hexanone to the ICAL standards.
- Add the same Internal Standard (IS) solution specified for Trace Volatiles analysis at the concentration 0.50 ug/L to all ICAL standards.
- Perform the Continuing Calibration Verification (CCV) at mid-point ICAL standard (CS3) concentration at the same frequency and sequence as specified in SOW.
- Note that ICAL and CCV RRF, ICAL %RSD and CCV %D technical acceptance criteria for the target analytes listed in Section I and the associated DMCs shall remain the same as specified for Trace Volatiles analysis in the SOW.
- Note that all target analytes and DMCs must meet the ICAL and CCV technical acceptance criteria.
- Analyze method blanks at the same frequency and sequence as specified for Trace Volatiles analysis in the SOW. The concentration of any target analyte in Section I in the method blank shall not exceed the CRQL listed in Section I.
- Perform the Matrix Spike (MS) and Matrix Spike Duplicate (MSD) sample analysis, if it is requested and the sample is designated on the Chain of Custody (COC). The spiking solution shall contain the target analytes in Section I and the spiking concentration shall be at the mid-point ICAL standard concentration of 0.50 ug/L. The %R and RPD QC limits for the analytes in Section I shall be 50-150% and 0-50% respectively and these limits are advisory.
- Analyze a Laboratory Control Sample (LCS) at frequency of one per SDG. The LCS spiking solution shall contain all target analytes in Section I. The spiking analyte concentrations shall be at 1xCRQLs as listed in Section I. The Percent Recovery (%R) for the spiking analyte shall be in the inclusive range of 50-150%. If the %R fails to meet the technical acceptance criteria, all samples shall be reanalyzed at no additional cost to EPA.
- Add the non-ketone and Hexanone-d5 or ketone DMC solutions at concentrations 0.50 ug/L and 5.0 ug/L, respectively, to all samples, blanks, LCS and MS/MSD if requested. The DMC %R technical acceptance criteria for the associated DMCs shall remain the same as specified for Trace Volatiles analysis in the SOW.
- Note that all DMCs shall meet the %R criteria. If the %R fails to meet the technical acceptance criteria, all samples shall be reanalyzed at no additional cost to EPA.
- Add the same IS at the same concentration in the calibration standards to all samples, blanks, LCS and MS/MSD if requested.

- Note that the IS associated to the target analyte in Section I is the same as specified for Trace Volatiles analysis. IS technical acceptance criteria specified in the SOW shall remain in effect.
- Note that all other technical acceptance criteria for ICALs, CCVs, blanks, samples and MS/MSD, if requested, shall remain the same as specified in the SOW.

III. Preparation and Method Modifications **Not applicable** ☐

The Laboratory shall:

- Perform an MDL study for the target analytes in Section I.
- Proceed to the Selective Ion Monitoring (SIM) procedure for water samples analyzed with the full scan Trace Volatiles analysis when any of the target analyte in Section I is either not detected or detected at a concentration below the sample adjusted CRQL (reported with a "U" or "J" LabQualifier.)

IV. Special Reporting Requirements **Not applicable** ☐

The Laboratory shall:

- **Report the CRQLs listed in Section I, adjusted according to the equation listed in Exhibit D of the SOW, even if the level of the corresponding target analytes in the low-point calibration standard is below the CRQLs listed in Section I.**
- Submit the MDL study results for target analytes in Section I as specified in the SOW. If the Laboratory has not previously submitted MDL results during the current contract year for the target analytes in Section I above, compliant MDL study results shall be submitted concurrently with the deliverables for this MA to the recipients specified in the Exhibit B, Table 1, Row G, of the SOW.
- Modify all applicable hardcopy forms to include the target analytes in Section I and the associated DMCs and ISs. This includes Forms 1, 2, 3, 6, 7 and 8.
- Include the Form 3A-OR for reporting the MS/MSD, if the analysis is performed as requested. The form shall include the spiking analytes and other required information.
- Identify the LCS with EPA Sample Number of VLCS## where ## is alphanumerical.
- Include a modified Form 3B-OR for reporting the LCS. The form shall include the spiking analytes and other required information.
- Report QCType = "Laboratory_Control_Sample" for the LCS in the EDD.
- Report "TVOA_SIM" for the field "LabDataPackageName" under "Header" node in the EDD and "TVOA SIM" in the appropriate header fields on the hardcopy forms.
- Note that TICs are not required to be reported.
- Include the same information in the EDD as in the hardcopy.

TRACE-VOLATILES

QC Summary

- Deuterated Monitoring Compound Recovery (Form 2)
- Matrix Spike/Matrix Spike Duplicate Recovery (Form 3) optional
- Laboratory Control Sample Recovery (Form 3) optional
- Method Blank Summary (Form 4)
- GC/MS Instrument Performance Check (Form 5)
- Internal Standard Area & RT Summary (Form 8)

Sample Data

Standards Data

- Initial Calibration (Form 6)
- Continuing Calibration Verification Data (Form 7)

Raw QC Data

- BFB Data
- Blank Data
- MS/MSD Data (optional)
- LCS Data (optional)

Miscellaneous Data

- Run Logs
- Standard Preparation Logs

TRACE-VOLATILE QC SUMMARY

Includes:

Deuterated Monitoring Compound Recovery (Form 2)

Matrix Spike/Matrix Spike Duplicate (Form 3A)

Laboratory Control Sample Recovery (From 3B)

Method Blank Summary (Form 4)

GC/MS Instrument Performance Check (Form 5)

Internal Standard Area and RT Summary (Form 8)

Deuterated Monitoring Compound Recovery

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

AnalyticalMethod: Trace VOA Level: TRACE

Matrix: Water

EPA SAMPLE NO.	DMC1	DMC2	DMC3	DMC4	DMC5	DMC6	DMC7	DMC8	DMC9
F6R29	115	114	85	108	102	109	105	102	100
F6R32	141 D	122	101	117	113	109	126 D	116	122
F6R33	118	102	87	125	103	110	107	103	113
F6R33DL	124	114	85	112	103	104	105	102	107
F6R34	142 D	120	108	114	119	117	127 D	116	123
F6R35	120	102	91	108	105	108	108	103	106
F6R36	131 *	114	99	117	114	109	116	108	112
F6R39	106	100	82	83	94	93	101	91	96
VHBLK01	116	99	85	108	104	103	107	103	104
VBLKRN	127	119	94	101	108	110	117	108	115
VIBLK01	135 *	114	101	112	109	109	122	113	116
VBLKSK	119	106	83	107	99	103	103	101	103

	QC LIMITS
DMC1 = Vinyl Chloride-d3	40-130
DMC2 = Chloroethane-d5	65-130
DMC3 = 1,1-Dichloroethene-d2	60-125
DMC4 = 2-Butanone-d5	40-130
DMC5 = Chloroform-d	70-125
DMC6 = 1,2-Dichloroethane-d4	70-130
DMC7 = Benzene-d6	70-125
DMC8 = 1,2-Dichloropropane-d6	60-140
DMC9 = Toluene-d8	70-130

* Values outside of contract required QC limits
D DMC diluted out

FORM 2B-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

AnalyticalMethod: Trace VOA Level: TRACE

Matrix: Water

EPA SAMPLE NO.	DMC10	DMC11	DMC12	DMC13	DMC14	DMC15	DMC16	DMC17	TOT OUT
F6R29	100	101	100	106					0
F6R32	106	104	107	120					0
F6R33	112	123	112	109					0
F6R33DL	108	104	108	103					0
F6R34	108	110	112	125 D					0
F6R35	102	98	104	108					0
F6R36	103	104	107	122 *					2
F6R39	84	73	84	90					0
VHBLK01	99	100	102	105					0
VBLKRN	103	91	101	109					0
VIBLK01	105	105	106	116					1
VBLKSK	102	97	98	103					0

	QC LIMITS
DMC10 = trans-1,3-Dichloropropene-d4	55-130
DMC11 = 2-Hexanone-d5	45-130
DMC12 = 1,1,2,2-Tetrachloroethane-d2	65-120
DMC13 = 1,2-Dichlorobenzene-d4	80-120

* Values outside of contract required QC limits
D DMC diluted out

Method Blank Summary

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKRN

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QQ92723-001

Instrument ID: Agilent MSD8 Lab File ID: 81221D08

Extraction Type: PT Date Extracted: _____

GC Column(1): DB-624 ID: 0.25 (mm) Date Analyzed: 12/21/2015

GC Column(2): _____ ID: _____ (mm) Time Analyzed: 15:11

Heated Purge:(Y/N) N Cleanup:(Y/N) _____ Cleanup Types: _____

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R29	QL16010-001	81221D17	12/21/2015
F6R33	QL16010-003	81221D20	12/21/2015
F6R34	QL16010-004	81221D22	12/21/2015
F6R35	QL16010-005	81221D18	12/21/2015
F6R36	QL16010-006	81221D19	12/21/2015
F6R39	QL16010-007	81221D09	12/21/2015

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKSK

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QQ92794-001

Instrument ID: Agilent MSD8 Lab File ID: 81222B03

Extraction Type: PT Date Extracted: _____

GC Column(1): DB-624 ID: 0.25 (mm) Date Analyzed: 12/22/2015

GC Column(2): _____ ID: _____ (mm) Time Analyzed: 11:03

Heated Purge:(Y/N) N Cleanup:(Y/N) _____ Cleanup Types: _____

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R32	QL16010-002	81222B07	12/22/2015
F6R33DL	QL16010-003	81222B06	12/22/2015
VHBLK01	QL16010-008	81222B10	12/22/2015

Instrument Performance Check

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

BFBRN

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29

Analytical Method: Trace VOA Lab File ID: 81221D02

Instrument ID: Agilent MSD8 BFB/DFTPP: BFB

GC Column: DB-624 ID: 0.25 (mm)

Injection Date: 12/21/2015 Injection Time: 1223

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	26.1	
75	30.0 - 80.0% of mass 95	47.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.1	(0.1) 1
174	50.0 - 120% of mass 95	81.9	
175	5.0 - 9.0% of mass 174	6.0	(7.4) 1
176	95.0 - 101% of mass 174	78.5	(95.9) 1
177	5.0 - 9.0% of mass 176	5.1	(6.5) 2

1-Value is %mass 174 2-Value is %mass 176

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD020RN	VSTD020RN	81221D03	12/21/2015	1245
VSTD010RN	VSTD010RN	81221D04	12/21/2015	1312
VSTD005RN	VSTD005RN	81221D05	12/21/2015	1339
VSTD001RN	VSTD001RN	81221D06	12/21/2015	1405
VSTD0.5RN	VSTD0.5RN	81221D07	12/21/2015	1432
VBLKRN	QQ92723-001	81221D08	12/21/2015	1511
F6R39	QL16010-007	81221D09	12/21/2015	1550
F6R29	QL16010-001	81221D17	12/21/2015	1923
F6R35	QL16010-005	81221D18	12/21/2015	1949
F6R36	QL16010-006	81221D19	12/21/2015	2015
F6R33	QL16010-003	81221D20	12/21/2015	2042
VIBLK01	QQ92723-018	81221D21	12/21/2015	2109
F6R34	QL16010-004	81221D22	12/21/2015	2135
VSTD005RU	VSTD005RU	81221D23	12/21/2015	2201

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

BFBSK

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Lab File ID: 81222B01

Instrument ID: Agilent MSD8 BFB/DFTPP: BFB

GC Column: DB-624 ID: 0.25 (mm)

Injection Date: 12/22/2015 Injection Time: 0959

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0% of mass 95	25.6	
75	30.0 - 80.0% of mass 95	46.7	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120% of mass 95	81.9	
175	5.0 - 9.0% of mass 174	6.1	(7.5) 1
176	95.0 - 101% of mass 174	78.2	(95.5) 1
177	5.0 - 9.0% of mass 176	5.3	(6.8) 2

1-Value is %mass 174 2-Value is %mass 176

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD005SK	VSTD005SK	81222B02	12/22/2015	1014
VBLKSK	QQ92794-001	81222B03	12/22/2015	1103
F6R33DL	QL16010-003	81222B06	12/22/2015	1232
F6R32	QL16010-002	81222B07	12/22/2015	1258
VHBLK01	QL16010-008	81222B10	12/22/2015	1417
VSTD005SM	VSTD005SM	81222B24	12/22/2015	2029

Internal Standard & RT Summary

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: Trace

EPA Sample No.: VSTD005RN Lab File ID (Standard): 81221D05

Instrument ID: Agilent MSD8 Init. Calib. Date(s): 12/21/2015 12/21/2015

GC Column: DB-624 ID: 0.25 (mm) Date Analyzed: 12/21/2015

Heated Purge: (Y/N) N Time Analyzed: 1339

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	203307	10.92	260632	7.37	93856	12.87
UPPER LIMIT	406614	11.09	521264	7.54	187712	13.04
LOWER LIMIT	101654	10.75	130316	7.20	46928	12.70
EPA SAMPLE NO.						
F6R29	205923	10.92	256116	7.37	95628	12.87
F6R33	214271	10.92	262425	7.37	100571	12.87
F6R34	198727	10.92	252788	7.37	95024	12.87
F6R35	204520	10.92	254706	7.37	94531	12.87
F6R36	204770	10.92	250365	7.37	90397	12.87
F6R39	192240	10.92	252523	7.37	90000	12.87
VBLKRN	208320	10.92	265207	7.37	94978	12.87
VIBLK01	198667	10.92	253929	7.37	94936	12.87

IS1 = Chlorobenzene-d5
IS2 = 1,4-Difluorobenzene
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = + 0.17 minutes of internal standard RT

RT LOWER LIMIT = - 0.17 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: Trace

EPA Sample No.: VSTD005SK Lab File ID (Standard): 81222B02

Instrument ID: Agilent MSD8 Init. Calib. Date(s): 12/21/2015 12/21/2015

GC Column: DB-624 ID: 0.25 (mm) Date Analyzed: 12/22/2015

Heated Purge: (Y/N) N Time Analyzed: 1014

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	233788	10.92	287112	7.37	108372	12.87
UPPER LIMIT	467576	11.09	574224	7.54	216744	13.04
LOWER LIMIT	116894	10.75	143556	7.20	54186	12.70
EPA SAMPLE NO.						
F6R32	205374	10.92	265800	7.37	94232	12.87
F6R33DL	224063	10.92	276701	7.37	107530	12.87
VHBLK01	221144	10.92	278304	7.37	105440	12.87
VBLKSK	225873	10.92	280477	7.37	105336	12.87

IS1 = Chlorobenzene-d5
IS2 = 1,4-Difluorobenzene
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = + 0.17 minutes of internal standard RT

RT LOWER LIMIT = - 0.17 minutes of internal standard RT

TRACE-VOLATILE SAMPLE DATA

Sample data shall be arranged in packets with the Volatile Analysis Data Sheet (Form 1A-OR, 1B-OR), followed by the raw da the VOA samples. These sample packets shall be placed in increasing EPA sample number order, considering both letters and numbers.

-Target Compound Results (Form 1A-OR)
-Tentatively Identified Compounds (Form 1B-OR)
List up to 30 TICs
-Quantitation Report showing calculation for TCL Analytes
-Quantitation Report showing calculation for TICs
-Reconstructed Total Ion Chromatograms
-Raw Spectra & background subtracted mass spectra of TCL Analytes identified in the sample
-Mass Spectra of organic compounds not listed in Exhibit C with associated best match spectra
-Printout of Manual Integrations

Spectra shall be labeled as follows:

EPA Sample ID number, Sample ID number, Lab file ID, Date & Time of analysis and Instrument ID.
The compound name must be clearly marked.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R29

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-001

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D17

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U
67-64-1	Acetone	5.4	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R29

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-001

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D17

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m, p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R29

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: Trace VOA
Level: TRACE
Matrix: Water
Lab Sample ID: QL16010-001
Sample wt/vol: 25.0 (g/mL) mL
Lab File ID: 81221D17
% Solids:
Date Received: 12/16/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/21/2015
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 25.0 (mL)
Injection Volume:
Cleanup Types:
pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D17.D		
Lab Sample ID:	QL16010-001	Client Sample ID:	F6R29
Injection Date:	21-Dec-2015 19:23:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, QL16010-001		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	17
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	22-Dec-2015 08:16:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
1 Dichlorodifluoromethane	85.0		1.745		ND			
2 Chloromethane	50.0		1.922		ND			
$ 3 Vinyl Chloride-d3	65.0	2.040	2.040	0.000	41935	5.7347	5.7347	
4 Vinyl Chloride	62.0		2.052		ND			
5 Bromomethane	94.0		2.395		ND			
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	37134	5.7098	5.7097	
7 Chloroethane	64.0		2.502		ND			
8 Trichlorofluoromethane	101.0		2.786		ND			
$ 12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	102434	4.2490	4.2490	
13 1,1-Dichloroethene	96.0		3.389		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.413		ND			
14 Acetone	43.0	3.449	3.449	0.000	5352	5.4174	5.4174	
15 Carbon Disulfide	76.0		3.685		ND			
16 Methyl Acetate	43.0		3.875		ND			
17 Methylene Chloride	84.0		4.005		ND			
20 Methyl tert-Butyl Ether	73.0		4.372		ND			
21 trans-1,2-Dichloroethene	96.0		4.383		ND			
23 1,1-Dichloroethane	63.0		4.928		ND			
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	113924	53.764	53.764	
26 cis-1,2-Dichloroethene	96.0		5.697		ND			
28 2-Butanone	43.0		5.709		ND			
29 Bromochloromethane	128.0		6.004		ND			
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	108745	5.0825	5.0824	Q
31 Chloroform	83.0		6.111		ND			
33 1,1,1-Trichloroethane	97.0		6.371		ND			
32 Cyclohexane	56.0		6.442		ND			
34 Carbon Tetrachloride	117.0		6.596		ND			

Report Date: 22-Dec-2015 08:29:01 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D17.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	49396	5.4275	5.4274	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	236025	5.2448	5.2448	
37 Benzene	78.0		6.856		ND			
39 1,2-Dichloroethane	62.0		6.880		ND			
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	256116	5.0000	5.0000	
42 Trichloroethene	95.0		7.720		ND			
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	63882	5.1030	5.1030	
43 Methylcyclohexane	83.0		7.981		ND			
45 1,2-Dichloropropane	63.0		8.016		ND			
49 Bromodichloromethane	83.0		8.383		ND			
50 cis-1,3-Dichloropropene	75.0		8.986		ND			
51 4-Methyl-2-pentanone	43.0		9.199		ND			
$ 52 Toluene-d8	98.0	9.353	9.341	0.012	210358	5.0080	5.0079	
53 Toluene	91.0		9.436		ND			
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	45395	4.9782	4.9782	
55 trans-1,3-Dichloropropene	75.0		9.684		ND			
56 1,1,2-Trichloroethane	97.0		9.897		ND			
57 Tetrachloroethene	164.0		10.075		ND			
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	65549	50.532	50.532	
60 2-Hexanone	43.0		10.170		ND			
61 Dibromochloromethane	129.0		10.323		ND			
62 1,2-Dibromoethane	107.0		10.454		ND			
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	205923	5.0000	5.0000	
64 Chlorobenzene	112.0		10.939		ND			
65 Ethylbenzene	91.0		11.045		ND			
67 m+p-Xylenes	106.0		11.152		ND			
68 o-Xylene	106.0		11.507		ND			
69 Styrene	104.0		11.519		ND			
70 Bromoform	173.0		11.684		ND			
71 Isopropylbenzene	105.0		11.826		ND			
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.051	12.039	0.012	24308	5.0238	5.0237	
74 1,1,2,2-Tetrachloroethane	83.0		12.075		ND			
83 1,3-Dichlorobenzene	146.0		12.820		ND			
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	95628	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0		12.891		ND			
$ 87 1,2-Dichlorobenzene-d4	152.0	13.152	13.163	-0.011	59334	5.2929	5.2929	
89 1,2-Dichlorobenzene	146.0		13.175		ND			
90 1,2-Dibromo-3-chloropropane	75.0		13.719		ND			
91 1,2,4-Trichlorobenzene	180.0		14.299		ND			
94 1,2,3-Trichlorobenzene	180.0		14.666		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services

Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D17.D		
Lab Sample ID:	QL16010-001	Client Sample ID:	F6R29
Injection Date:	21-Dec-2015 19:23:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, QL16010-001		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	17
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	22-Dec-2015 08:16:30

Tentative Identified Compound Results

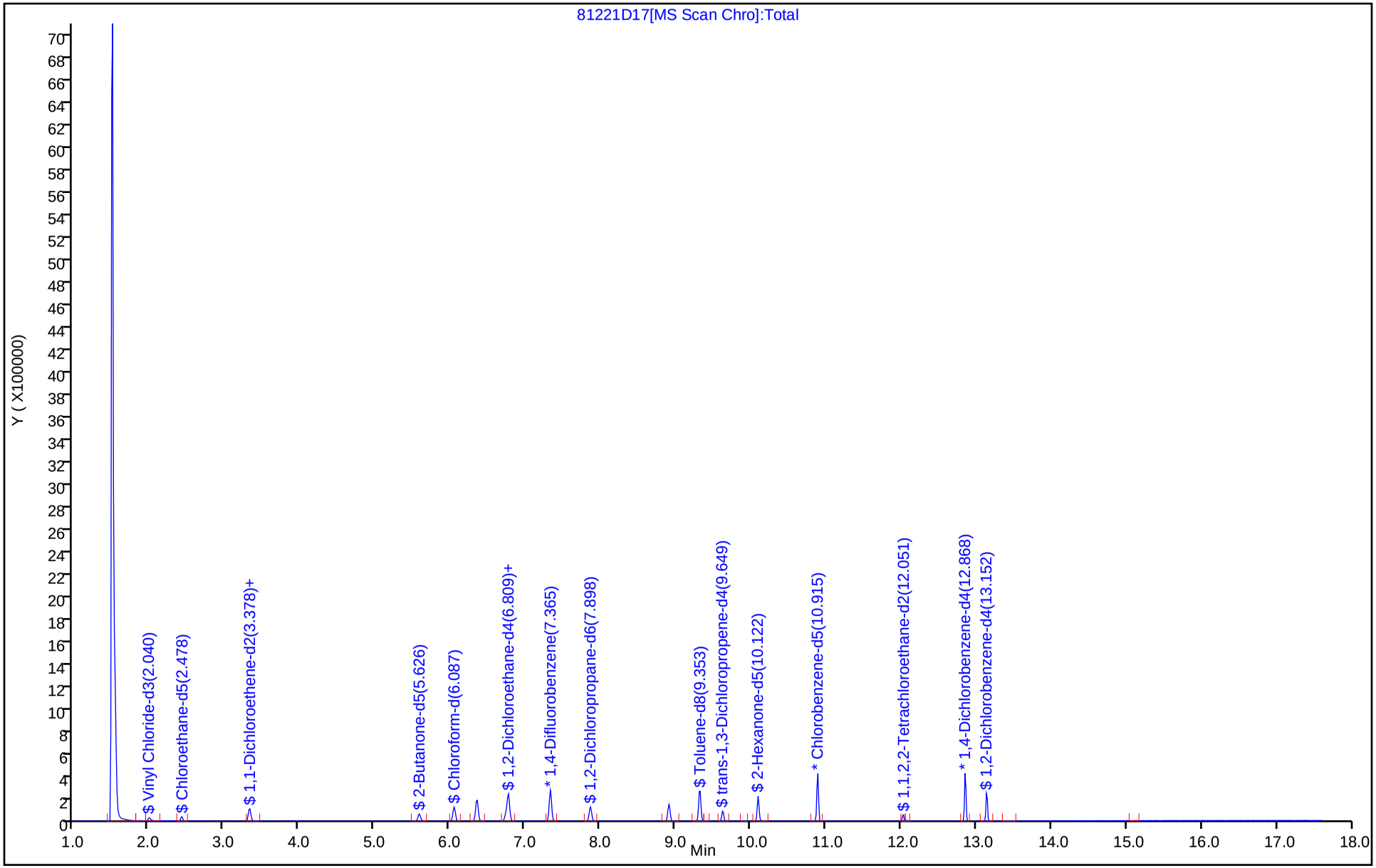
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 22-Dec-2015 08:29:01 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D17.D				
Injection Date:	21-Dec-2015 19:23:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	F6R29	Lab ID:	QL16010-001		
Sample Info:	8122115D.b, QL16010-001				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

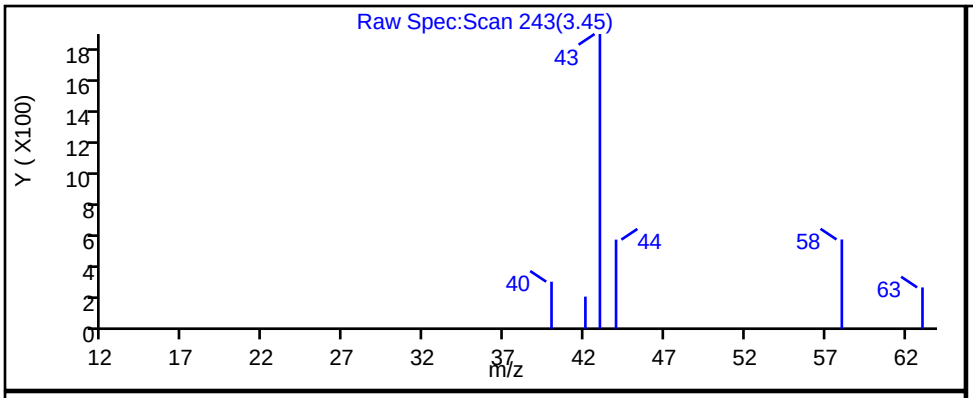


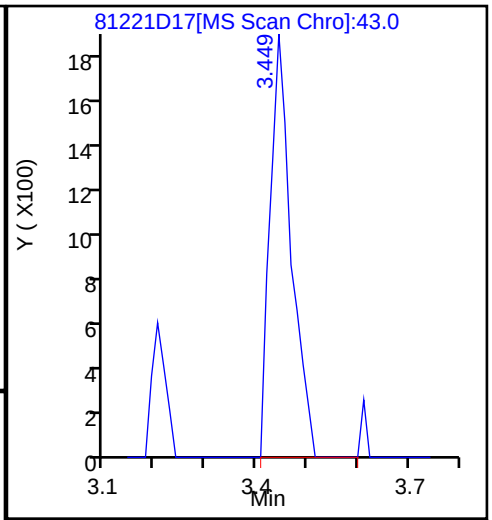
Report Date: 22-Dec-2015 08:29:01 AIM Revision: 1.0 26-May-2015 13:41:26

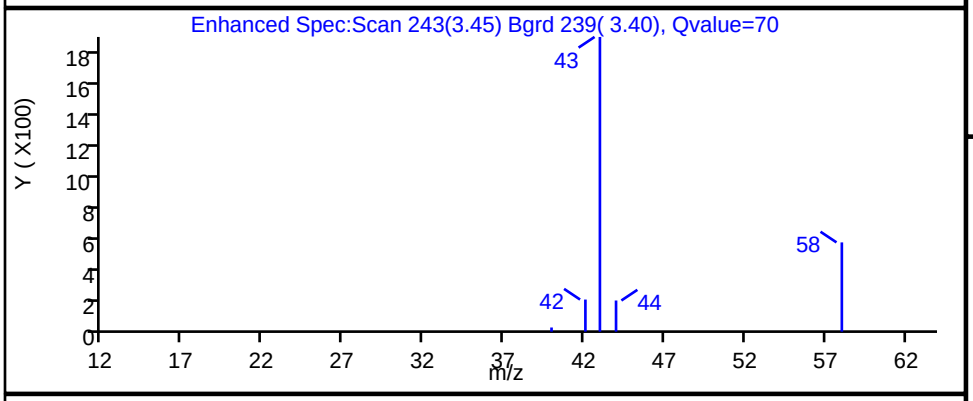
Shealy Environmental Services

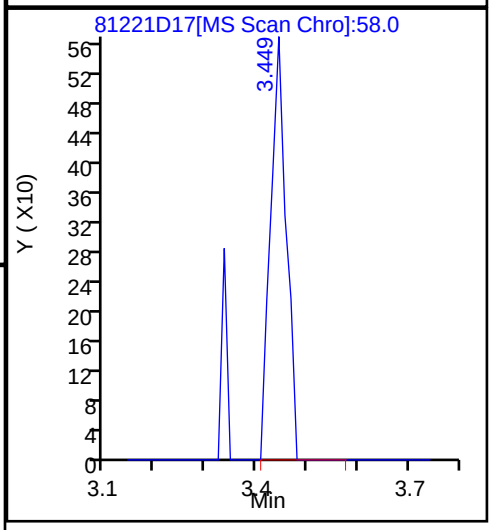
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D17.D		
Injection Date:	21-Dec-2015 19:23:30	Inst. ID:	msd8.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	8122115D.b, QL16010-001		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

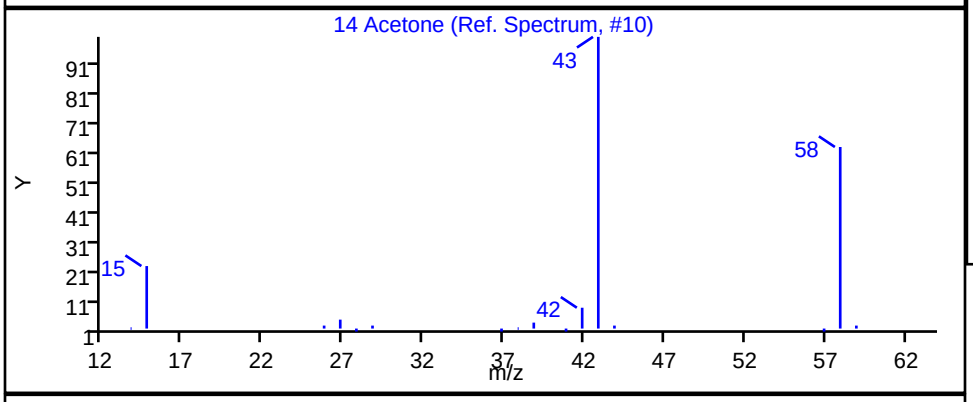
14 Acetone

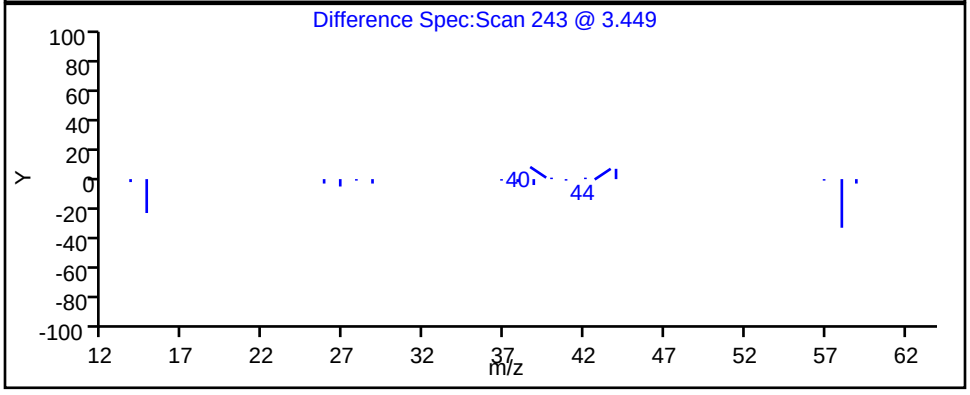












FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222B07

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 500.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	250	U
67-64-1	Acetone	5400	
75-15-0	Carbon disulfide	250	U
79-20-9	Methyl acetate	250	U
75-09-2	Methylene chloride	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
78-93-3	2-Butanone	1700	J
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	140	J
71-55-6	1,1,1-Trichloroethane	250	U
110-82-7	Cyclohexane	250	U
56-23-5	Carbon tetrachloride	250	U
71-43-2	Benzene	140	J
107-06-2	1,2-Dichloroethane	250	U
79-01-6	Trichloroethene	250	U
108-87-2	Methylcyclohexane	250	U
78-87-5	1,2-Dichloropropane	250	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222B07

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 500.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	2500	U
108-88-3	Toluene	110	J
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	2500	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
95-47-6	o-Xylene	250	U
179601-23-1	m, p-Xylene	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R32

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: Trace VOA
Level: TRACE
Matrix: Water
Lab Sample ID: QL16010-002
Sample wt/vol: 25.0 (g/mL) mL
Lab File ID: 81222B07
% Solids:
Date Received: 12/16/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 25.0 (mL)
Injection Volume:
Cleanup Types:
pH: 2 Dilution Factor: 500.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	8.94	1400	J
02	624-92-0	Disulfide, dimethyl	9.09	1600	NJ
03	20333-39-5	Methyl ethyl disulfide	10.77	2000	NJ
04	2179-60-4	Disulfide, methyl propyl	11.54	340	NJ
05	110-81-6	Diethyl disulfide	11.91	800	NJ
06	95-48-7	Phenol, 2-methyl-	13.64	280	NJ
07	576-26-1	Phenol, 2,6-dimethyl-	13.96	400	NJ
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Lab Sample ID:	QL16010-002	Client Sample ID:	F6R32
Injection Date:	22-Dec-2015 12:58:30	Dil. Factor:	500.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122215B.b, QL16010-002,500		
Method:	\\Organics\DD\chem\msd8.i\8122215B.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:45:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	7
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	500.00	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	22-Dec-2015 13:24:30

	Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
	1 Dichlorodifluoromethane	85.0		1.745		ND			
	2 Chloromethane	50.0		1.922		ND			
$	3 Vinyl Chloride-d3	65.0	2.040	2.040	0.000	53381	7.0341	7.0340	R
	4 Vinyl Chloride	62.0		2.052		ND			
	5 Bromomethane	94.0		2.395		ND			
$	6 Chloroethane-d5	69.0	2.478	2.478	0.000	41265	6.1138	6.1138	
	7 Chloroethane	64.0		2.502		ND			
	8 Trichlorofluoromethane	101.0		2.786		ND			
$	12 1,1-Dichloroethene-d2	63.0	3.366	3.378	-0.012	126924	5.0731	5.0730	
	13 1,1-Dichloroethene	96.0		3.389		ND			
	11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.401		ND			
	14 Acetone	43.0	3.449	3.437	0.012	11062	10.789	5394.66	M
	15 Carbon Disulfide	76.0		3.685		ND			
	16 Methyl Acetate	43.0		3.874		ND			
	17 Methylene Chloride	84.0		4.005		ND			
	20 Methyl tert-Butyl Ether	73.0		4.371		ND			
	21 trans-1,2-Dichloroethene	96.0		4.371		ND			
	23 1,1-Dichloroethane	63.0		4.928		ND			
$	25 2-Butanone-d5	46.0	5.626	5.626	0.000	128350	58.365	58.365	
	26 cis-1,2-Dichloroethene	96.0		5.697		ND			
	28 2-Butanone	43.0	5.709	5.697	0.012	6209	3.3625	1681.25	e
	29 Bromochloromethane	128.0		6.004		ND			
$	30 Chloroform-d	84.0	6.087	6.087	0.000	125922	5.6709	5.6708	Q
	31 Chloroform	83.0	6.111	6.111	0.000	6996	0.27229	136.14	e
	33 1,1,1-Trichloroethane	97.0		6.371		ND			
	32 Cyclohexane	56.0		6.454		ND			
	34 Carbon Tetrachloride	117.0		6.596		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	51456	5.4478	5.4478	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	282237	6.2885	6.2884	R
37 Benzene	78.0	6.856	6.856	0.000	13116	0.28239	141.19	e
39 1,2-Dichloroethane	62.0		6.868		ND			
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	265800	5.0000	2500.00	
42 Trichloroethene	95.0		7.720		ND			
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	72166	5.7802	5.7801	
43 Methylcyclohexane	83.0		7.981		ND			
45 1,2-Dichloropropane	63.0		8.016		ND			
49 Bromodichloromethane	83.0		8.383		ND			
50 cis-1,3-Dichloropropene	75.0		8.986		ND			
51 4-Methyl-2-pentanone	43.0		9.199		ND			
$ 52 Toluene-d8	98.0	9.353	9.341	0.012	254982	6.0866	6.0865	
53 Toluene	91.0	9.436	9.436	0.000	11166	0.22700	113.50	e
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	48106	5.2896	5.2896	
55 trans-1,3-Dichloropropene	75.0		9.684		ND			
56 1,1,2-Trichloroethane	97.0		9.897		ND			
57 Tetrachloroethene	164.0		10.075		ND			
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	67477	52.158	52.158	Q
60 2-Hexanone	43.0		10.170		ND			
61 Dibromochloromethane	129.0		10.335		ND			
62 1,2-Dibromoethane	107.0		10.454		ND			
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	205374	5.0000	2500.00	
64 Chlorobenzene	112.0		10.939		ND			
65 Ethylbenzene	91.0		11.045		ND			
67 m+p-Xylenes	106.0		11.152		ND			
68 o-Xylene	106.0		11.507		ND			
69 Styrene	104.0		11.519		ND			
70 Bromoform	173.0		11.684		ND			
71 Isopropylbenzene	105.0		11.826		ND			
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.039	12.051	-0.012	25888	5.3646	5.3646	
74 1,1,2,2-Tetrachloroethane	83.0		12.063		ND			
83 1,3-Dichlorobenzene	146.0		12.820		ND			
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	94232	5.0000	2500.00	
86 1,4-Dichlorobenzene	146.0		12.891		ND			
$ 87 1,2-Dichlorobenzene-d4	152.0	13.163	13.151	0.012	66033	5.9778	5.9777	Q
89 1,2-Dichlorobenzene	146.0		13.175		ND			
90 1,2-Dibromo-3-chloropropane	75.0		13.719		ND			
91 1,2,4-Trichlorobenzene	180.0		14.299		ND			
94 1,2,3-Trichlorobenzene	180.0		14.666		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Lab Sample ID:	QL16010-002	Client Sample ID:	F6R32
Injection Date:	22-Dec-2015 12:58:30	Dil. Factor:	500.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122215B.b, QL16010-002,500		
Method:	\\Organics\DD\chem\msd8.i\8122215B.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:45:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	7
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	500.00	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	22-Dec-2015 13:24:30

Tentative Identified Compound Results

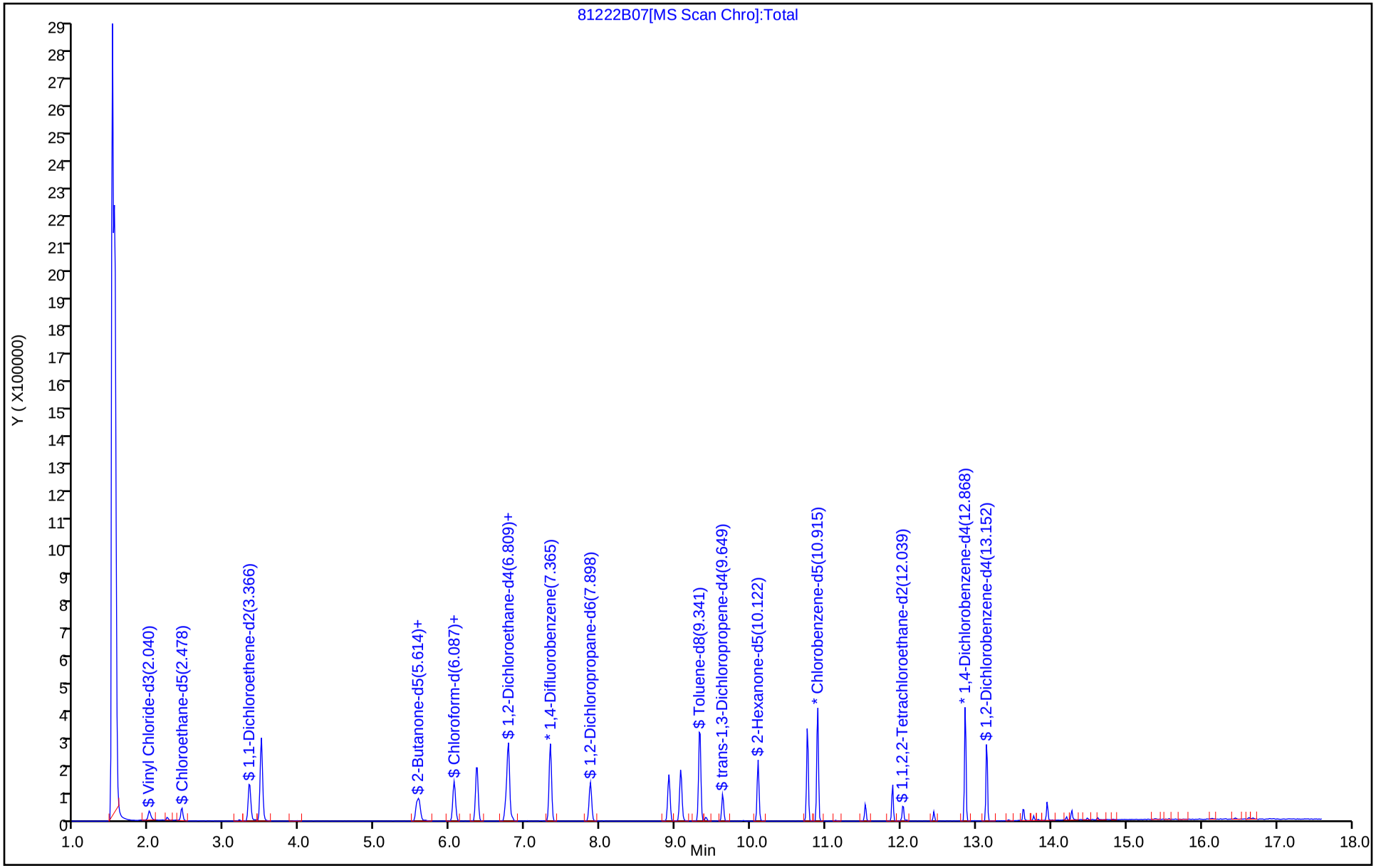
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown						
8.939	365273	2.8622	1431.12	41				
624-92-0		Disulfide, dimethyl						
9.093	420294	3.2934	1646.68	41	97	2533	C2H6S2	94
20333-39-5		Methyl ethyl disulfide						
10.773	552903	4.0915	2045.77	63	91	5247	C3H8S2	108
2179-60-4		Disulfide, methyl propyl						
11.542	92351	0.68341	341.71	63	91	9708	C4H10S2	122
110-81-6		Diethyl disulfide						
11.909	193361	1.6079	803.97	85	96	9706	C4H10S2	122
95-48-7		Phenol, 2-methyl-						
13.637	67629	0.56239	281.19	85	96	5379	C7H8O	108
576-26-1		Phenol, 2,6-dimethyl-						
13.956	95214	0.79177	395.89	85	96	9937	C8H10O	122

Quant. Compounds	RT	Response	Amount ug/L
* 41 1,4-Difluorobenzene	7.365	638091	5.0000
* 63 Chlorobenzene-d5	10.915	675667	5.0000
* 85 1,4-Dichlorobenzene-d4	12.868	601271	5.0000

Report Date: 23-Dec-2015 13:23:49 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D				
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	F6R32	Lab ID:	QL16010-002		
Sample Info:	8122215B.b, QL16010-002,500				
Purge Vol.	25 ML	Dil. Factor:	500.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

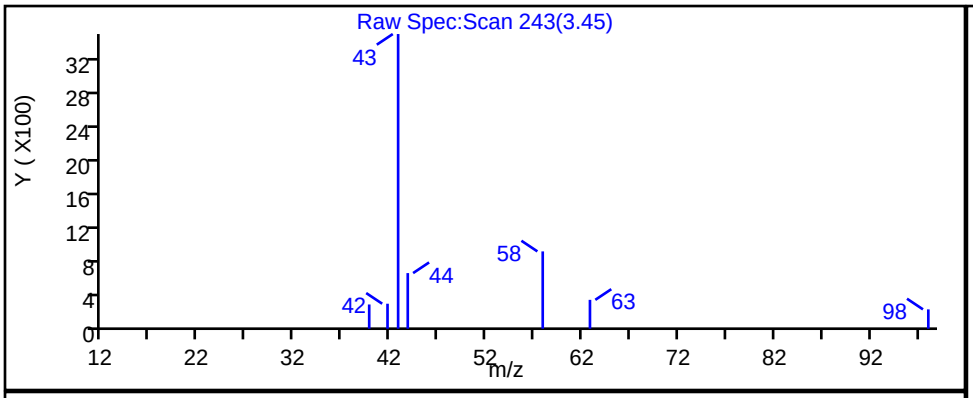


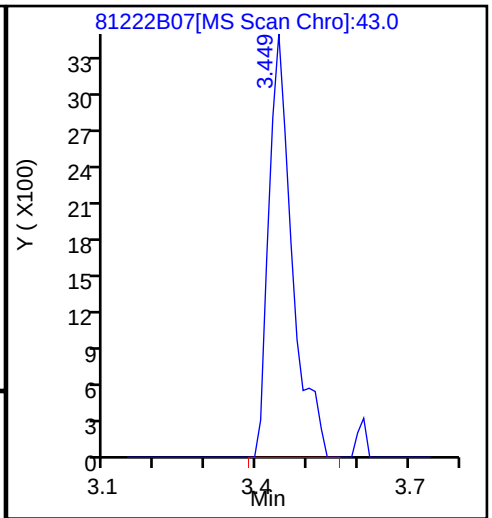
Report Date: 23-Dec-2015 13:23:49 AIM Revision: 1.0 26-May-2015 13:41:26

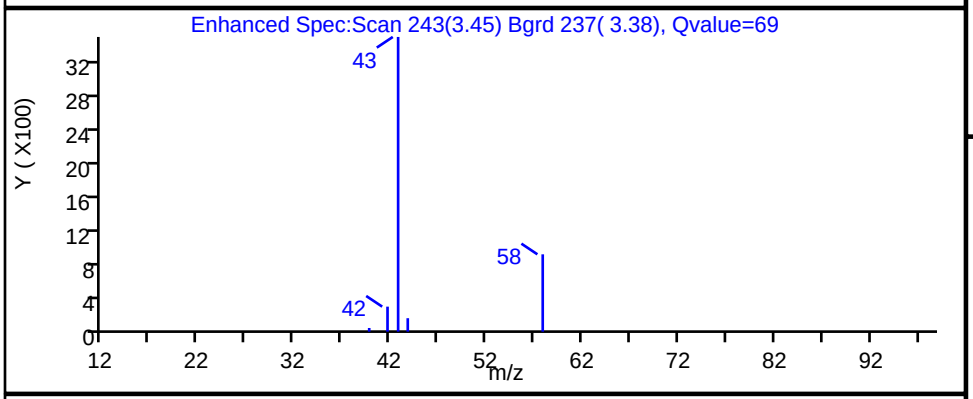
Shealy Environmental Services

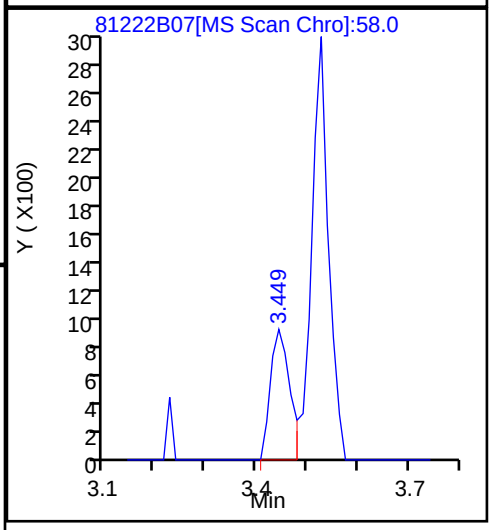
Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

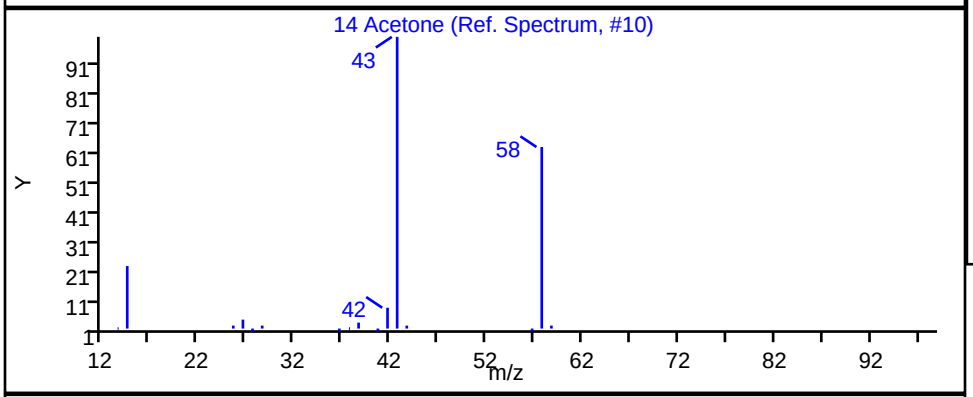
14 Acetone

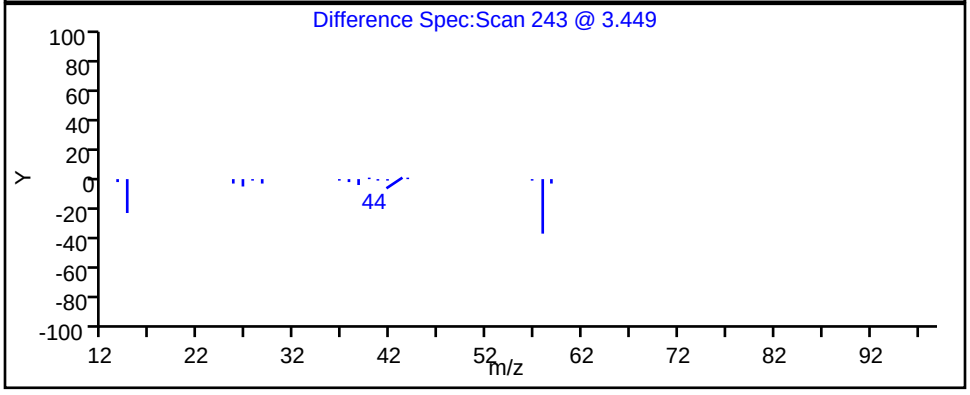










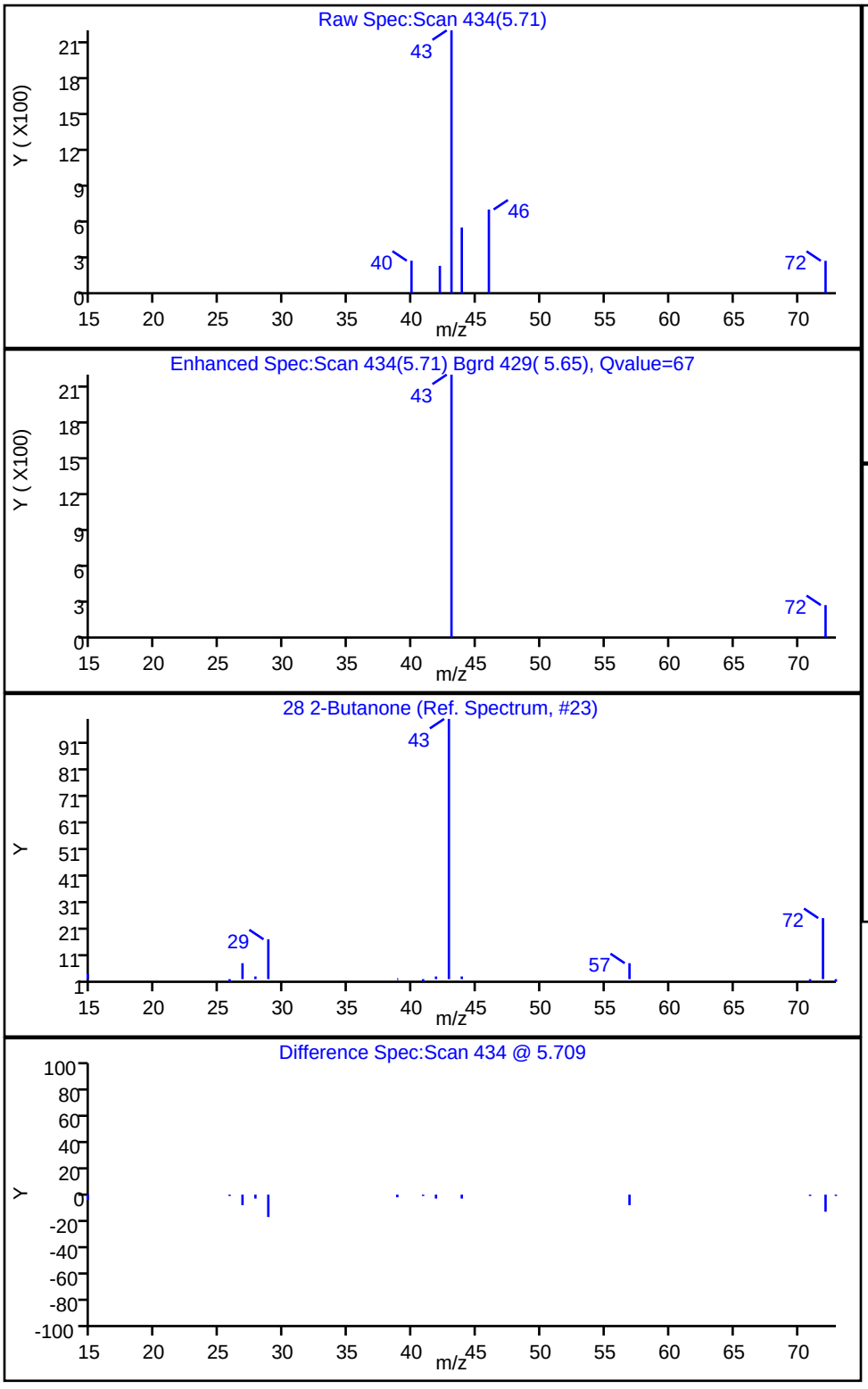


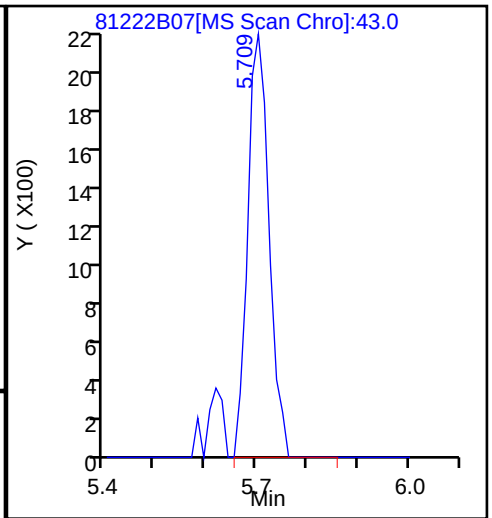
Report Date: 23-Dec-2015 13:23:50 AIM Revision: 1.0 26-May-2015 13:41:26

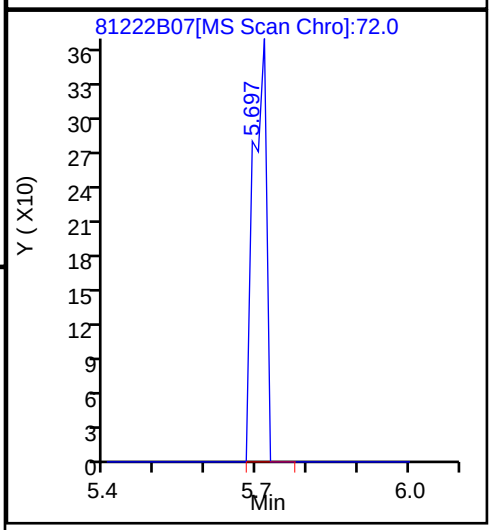
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

28 2-Butanone





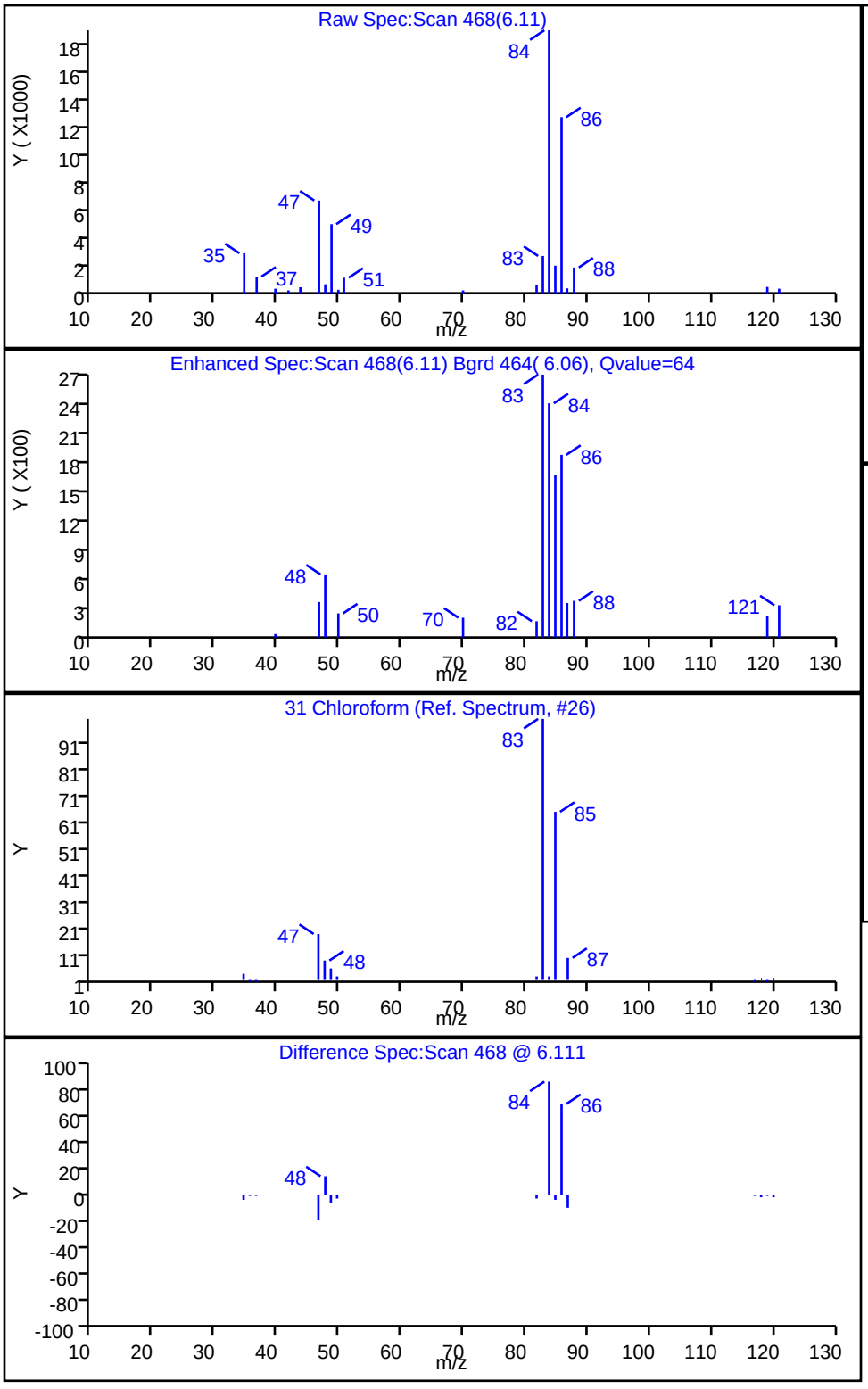


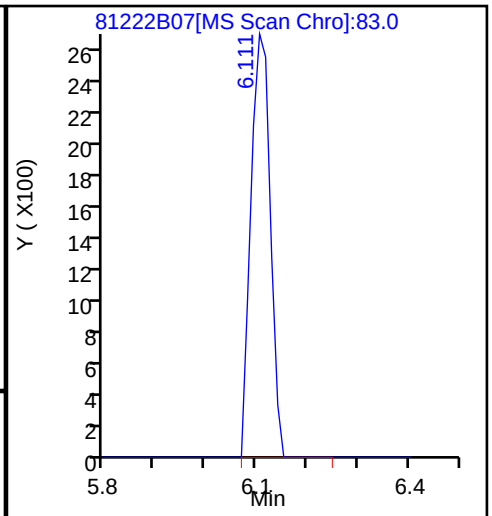
Report Date: 23-Dec-2015 13:23:50 AIM Revision: 1.0 26-May-2015 13:41:26

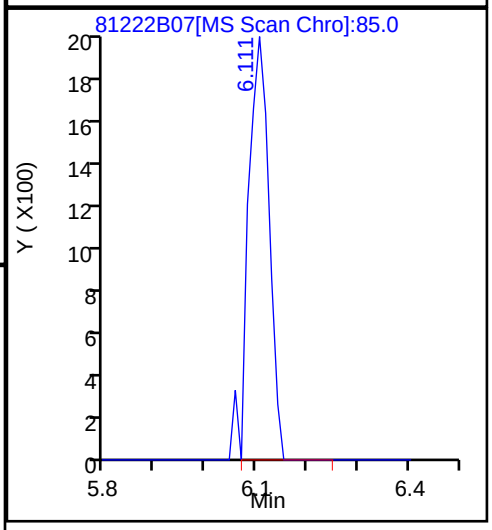
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

31 Chloroform





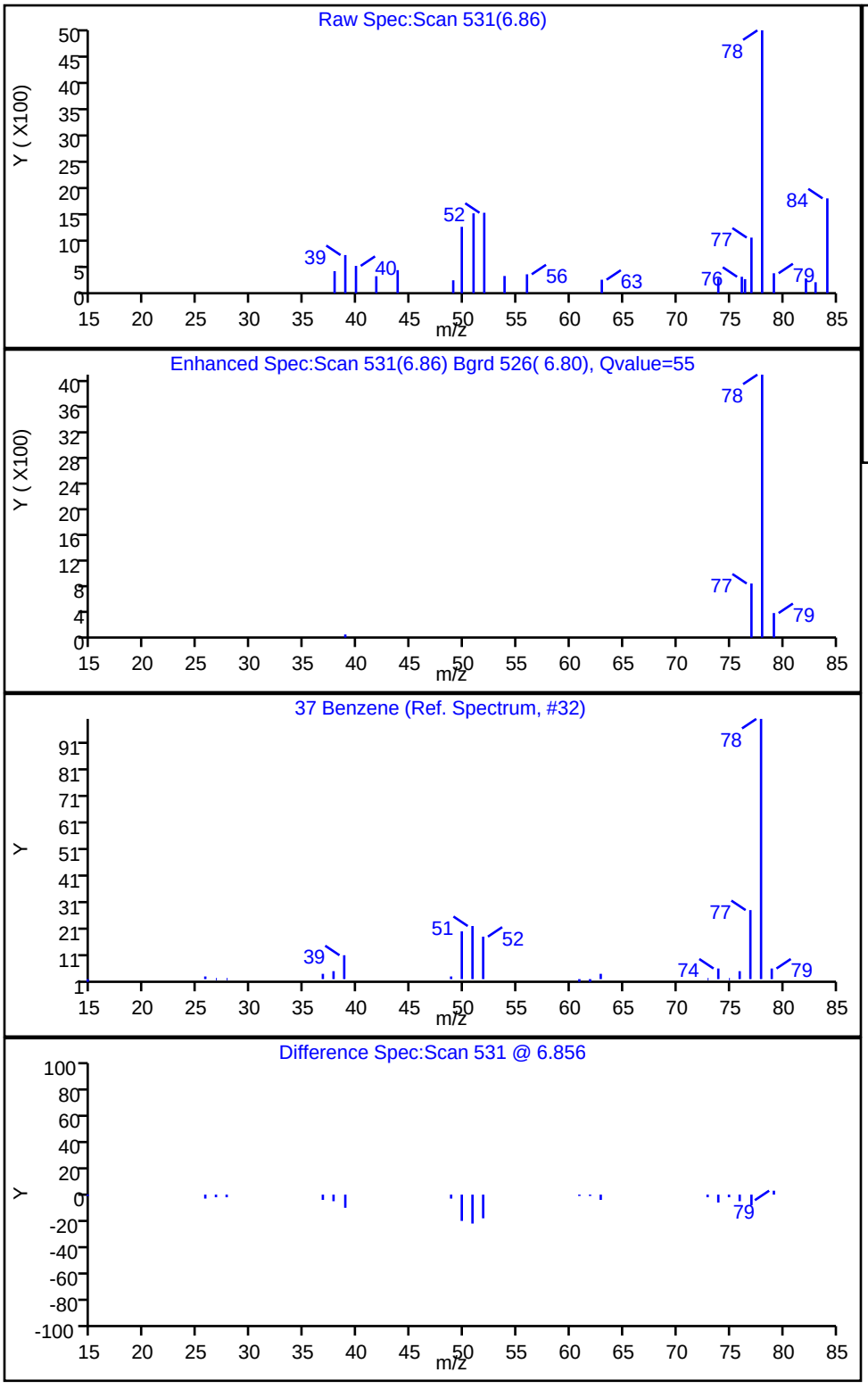


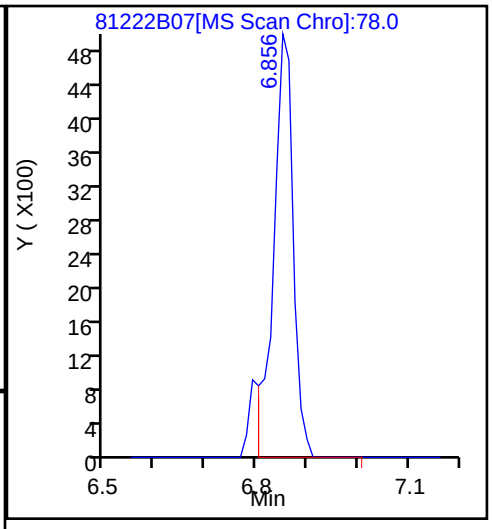
Report Date: 23-Dec-2015 13:23:50 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

37 Benzene



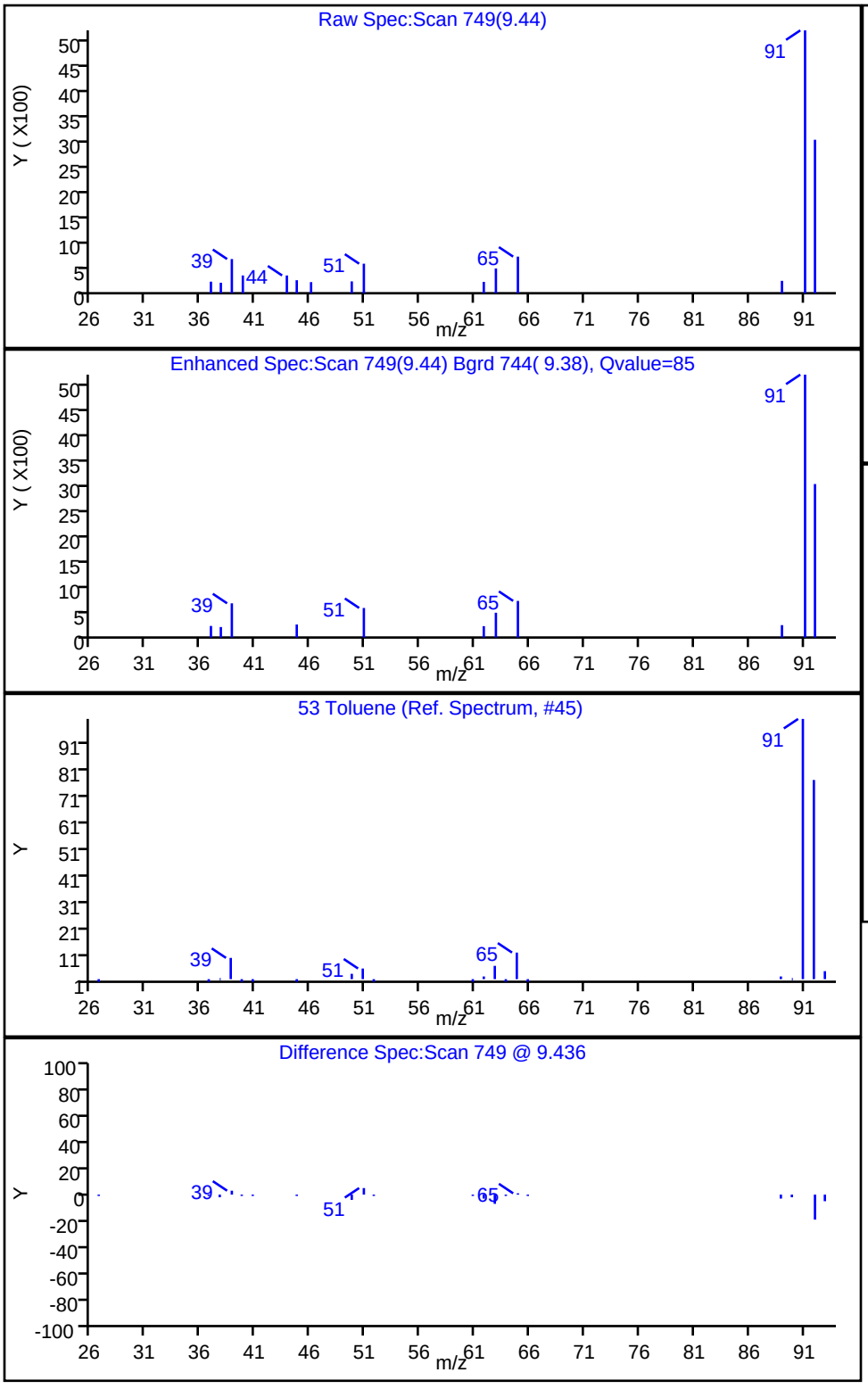


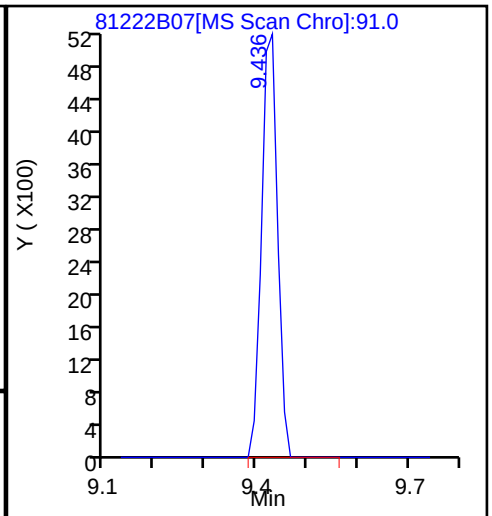
Report Date: 23-Dec-2015 13:23:50 AIM Revision: 1.0 26-May-2015 13:41:26

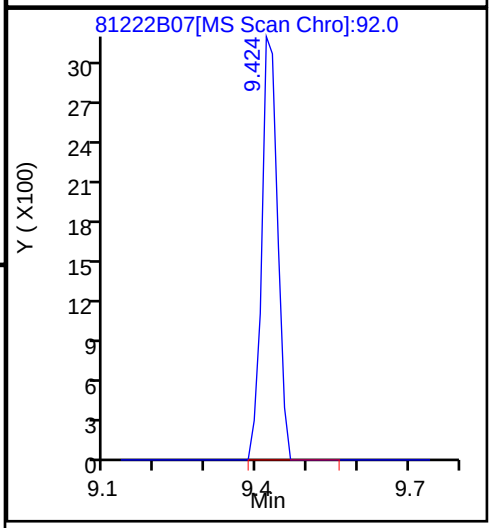
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

53 Toluene







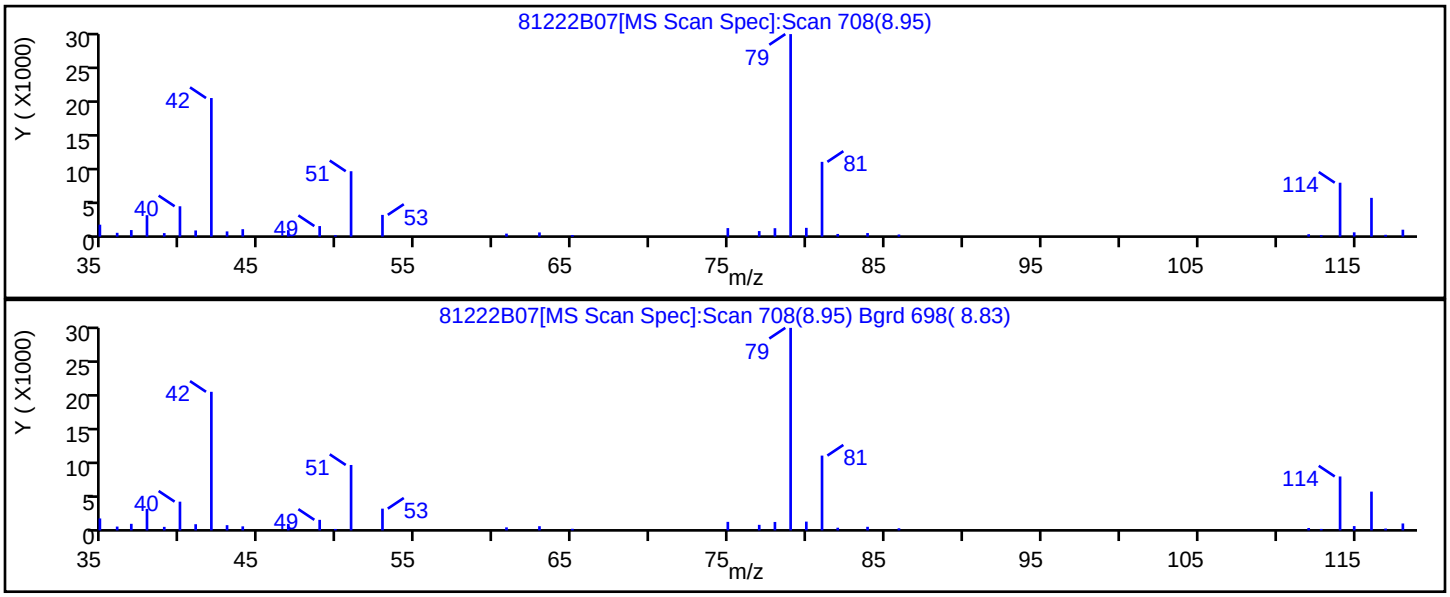
Report Date: 23-Dec-2015 13:23:50 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 8.939

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



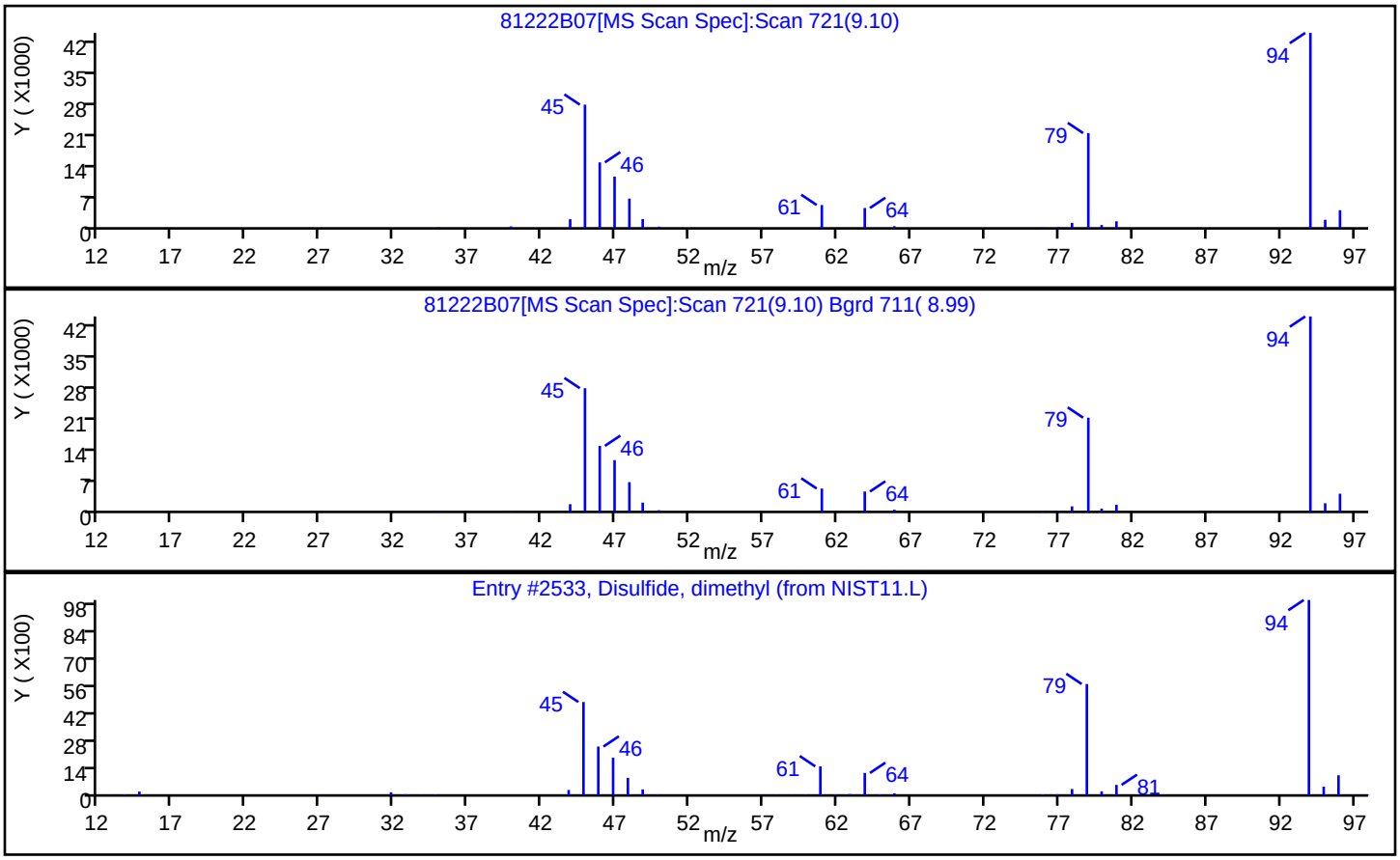
Report Date: 23-Dec-2015 13:23:50 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 9.093

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Disulfide, dimethyl	624-92-0	NIST11	2533	C2H6S2	94	97



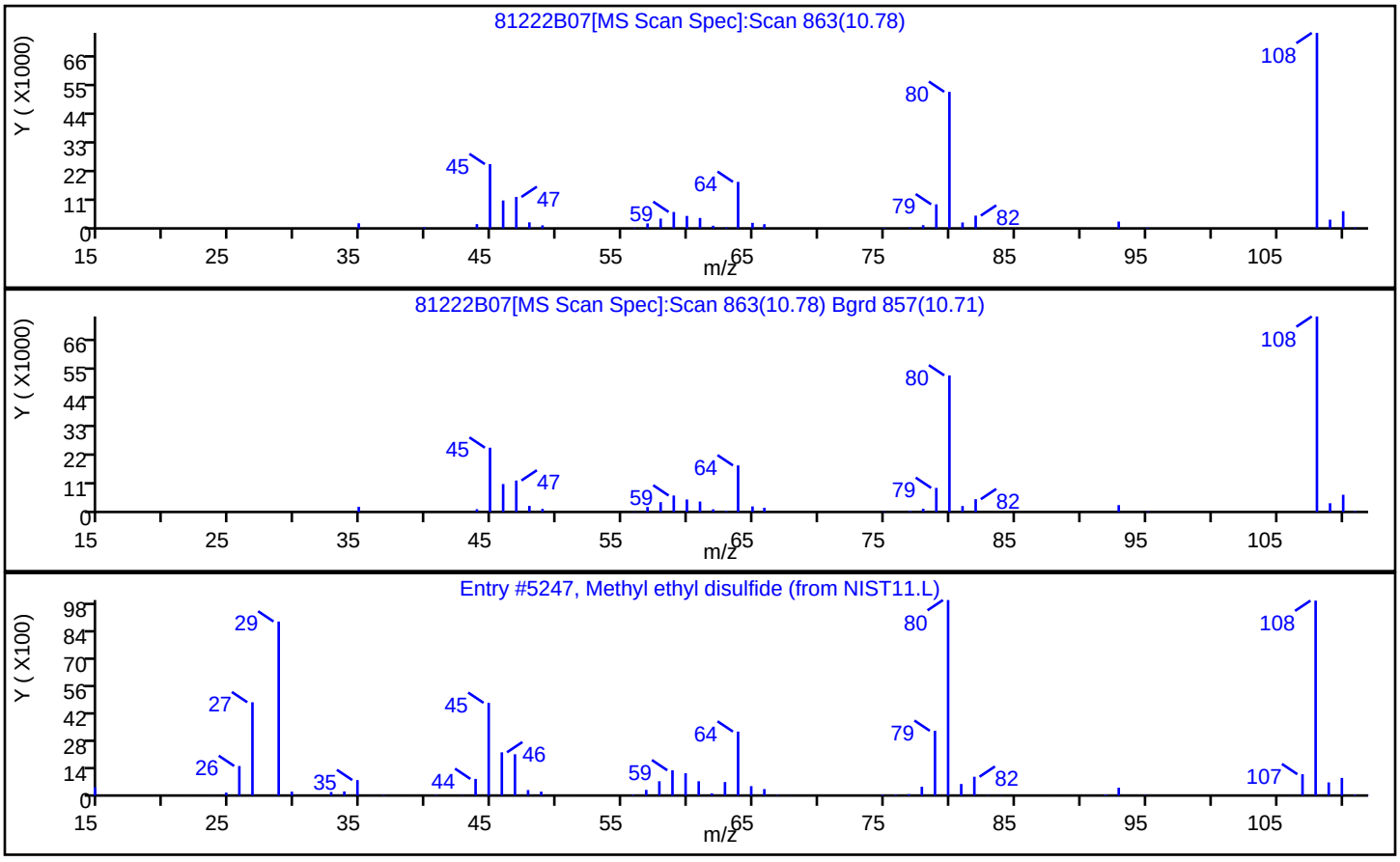
Report Date: 23-Dec-2015 13:23:50 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 10.773

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Methyl ethyl disulfide	20333-39-5	NIST11	5247	C3H8S2	108	91



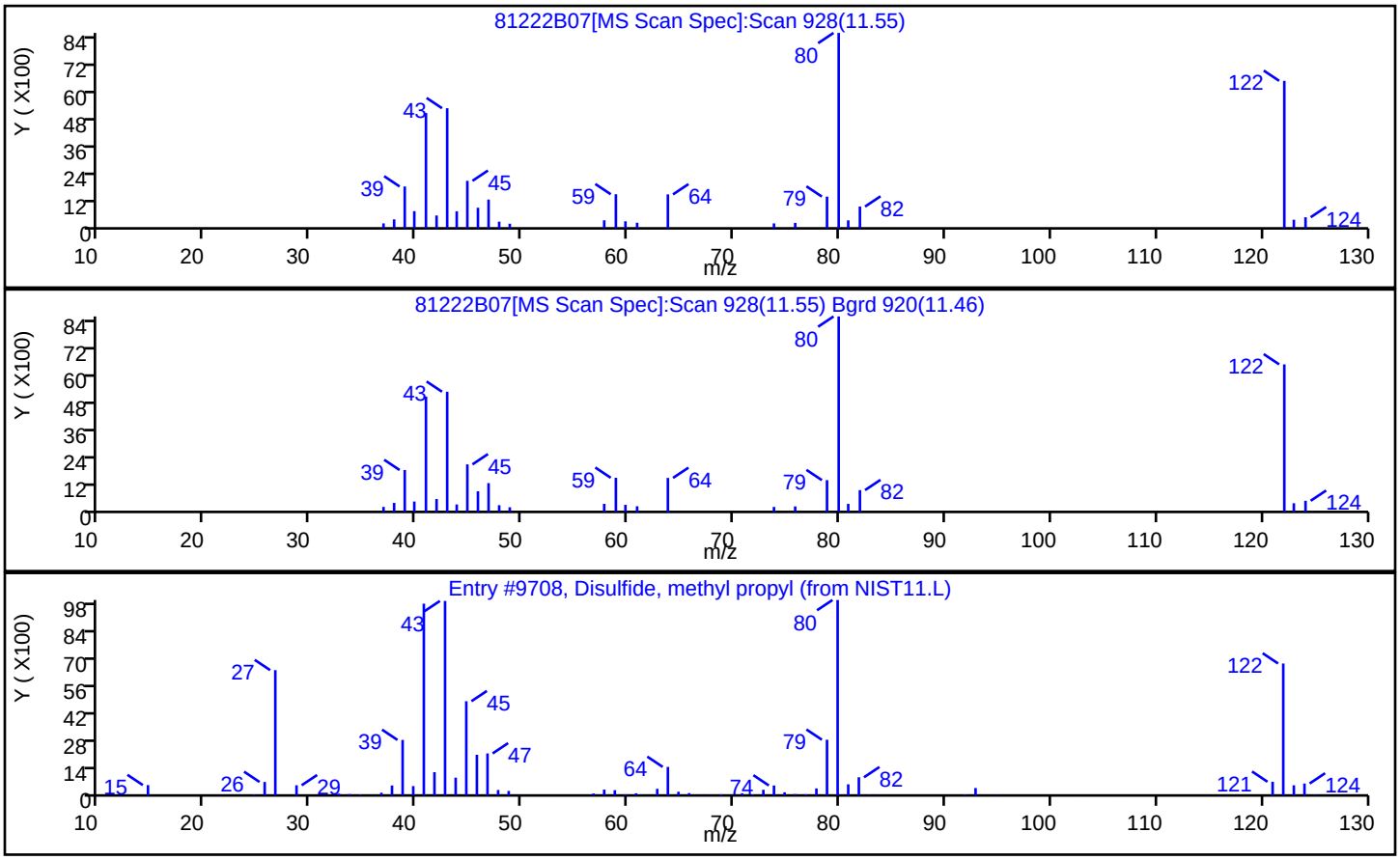
Report Date: 23-Dec-2015 13:23:50 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.542

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Disulfide, methyl propyl	2179-60-4	NIST11	9708	C4H10S2	122	91



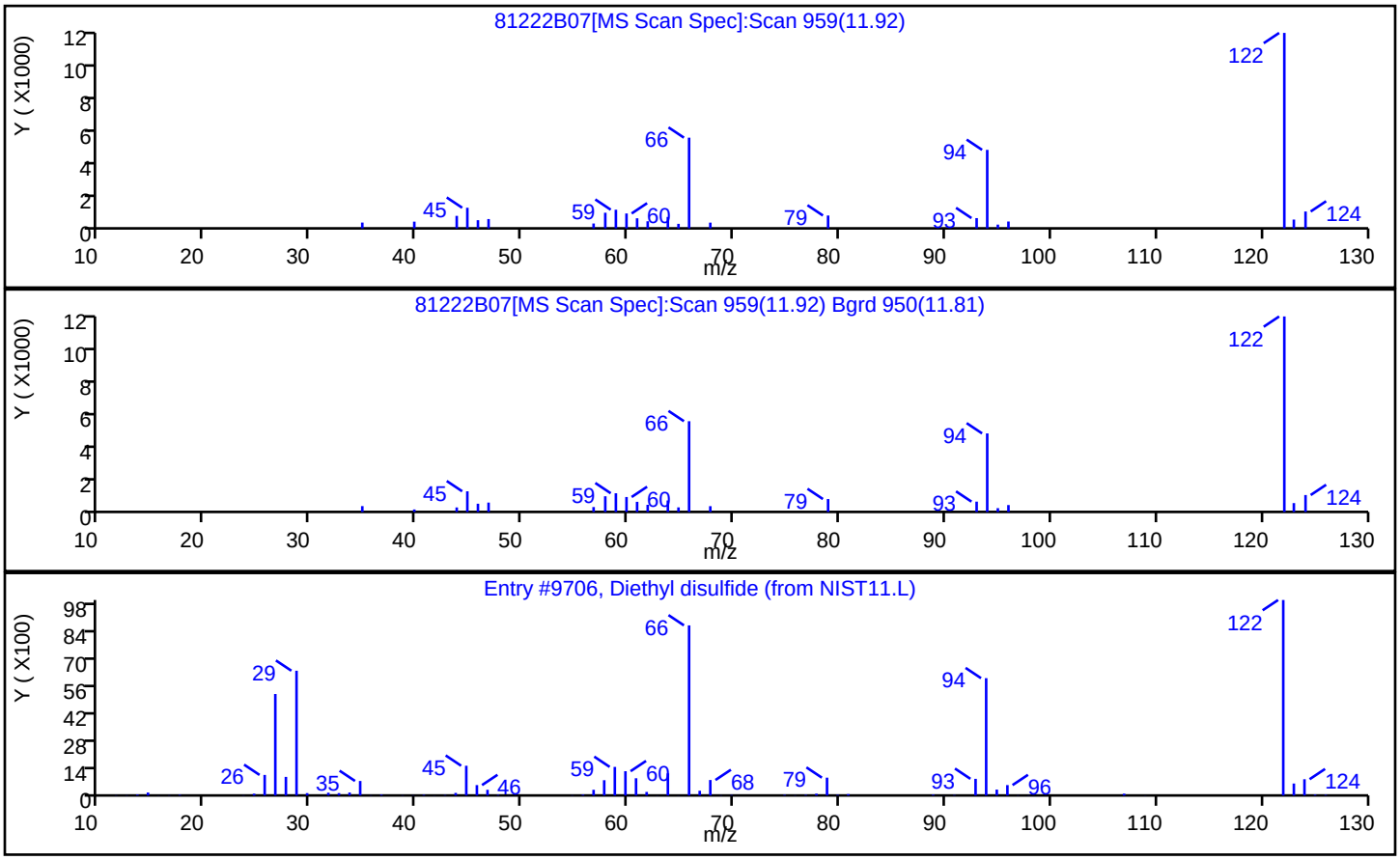
Report Date: 23-Dec-2015 13:23:50 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.909

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Diethyl disulfide	110-81-6	NIST11	9706	C4H10S2	122	96



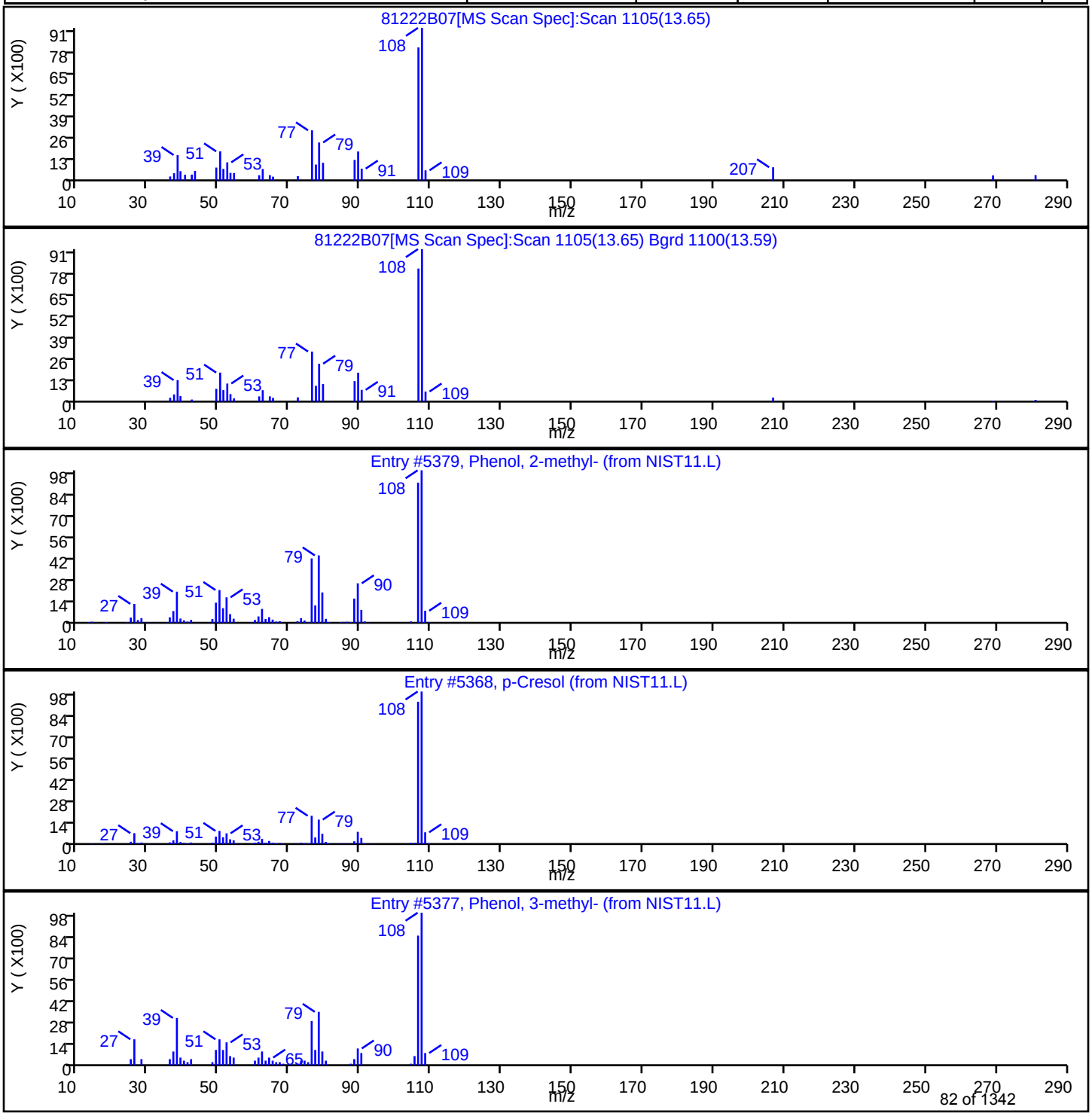
Report Date: 23-Dec-2015 13:23:50 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.637

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-methyl-	95-48-7	NIST11	5379	C7H8O	108	96
p-Cresol	106-44-5	NIST11	5368	C7H8O	108	94
Phenol, 3-methyl-	108-39-4	NIST11	5377	C7H8O	108	90



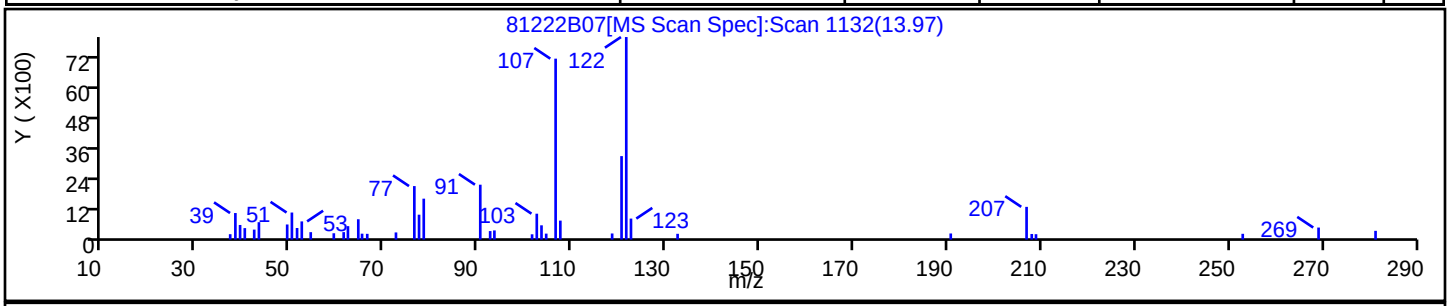
Report Date: 23-Dec-2015 13:23:50 AIM Revision: 1.0 26-May-2015 13:41:26

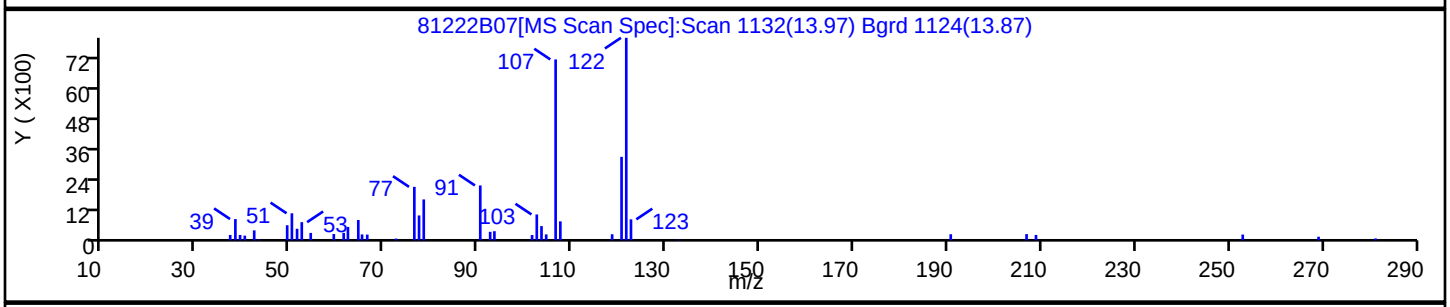
Shealy Environmental Services

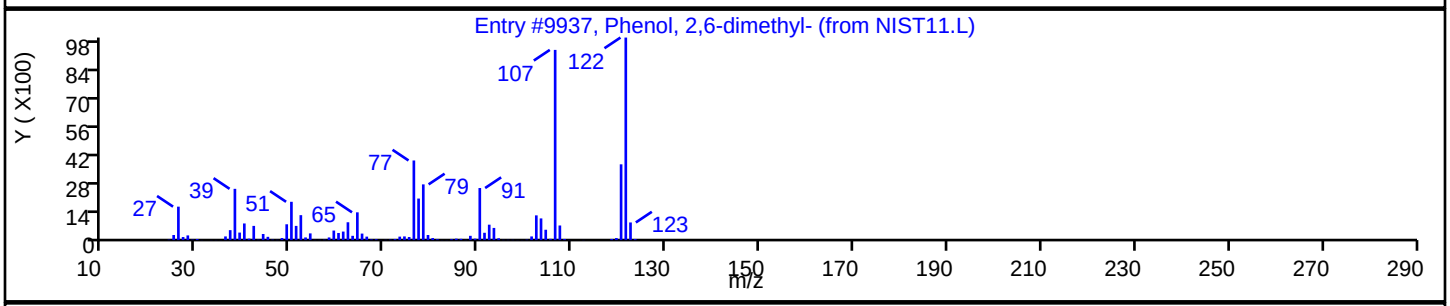
Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

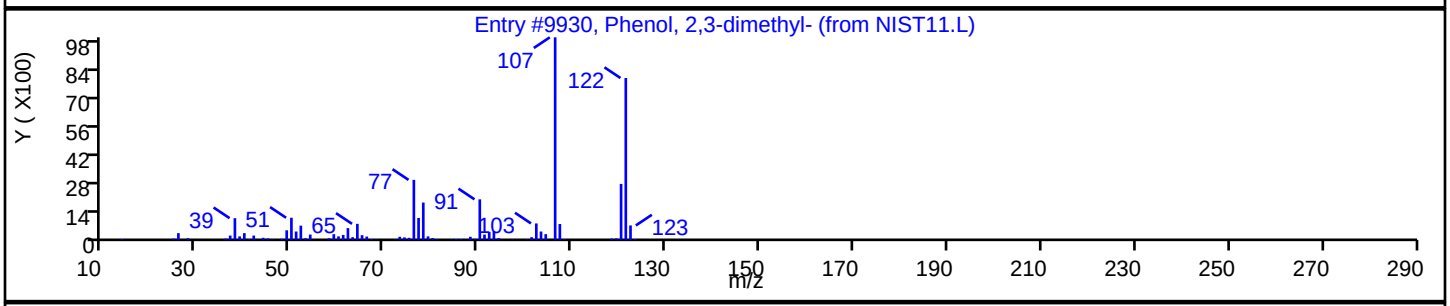
TIC @ 13.956

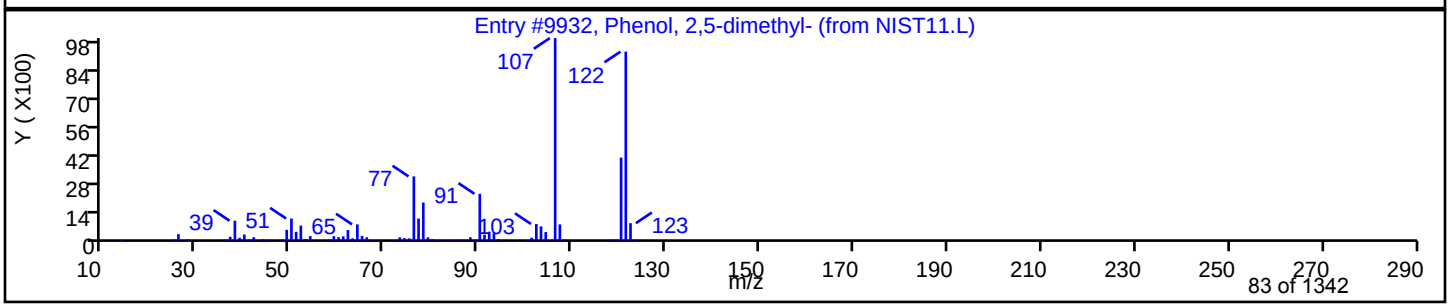
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,6-dimethyl-	576-26-1	NIST11	9937	C8H10O	122	96
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9930	C8H10O	122	95
Phenol, 2,5-dimethyl-	95-87-4	NIST11	9932	C8H10O	122	95











Report Date: 23-Dec-2015 13:23:49 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

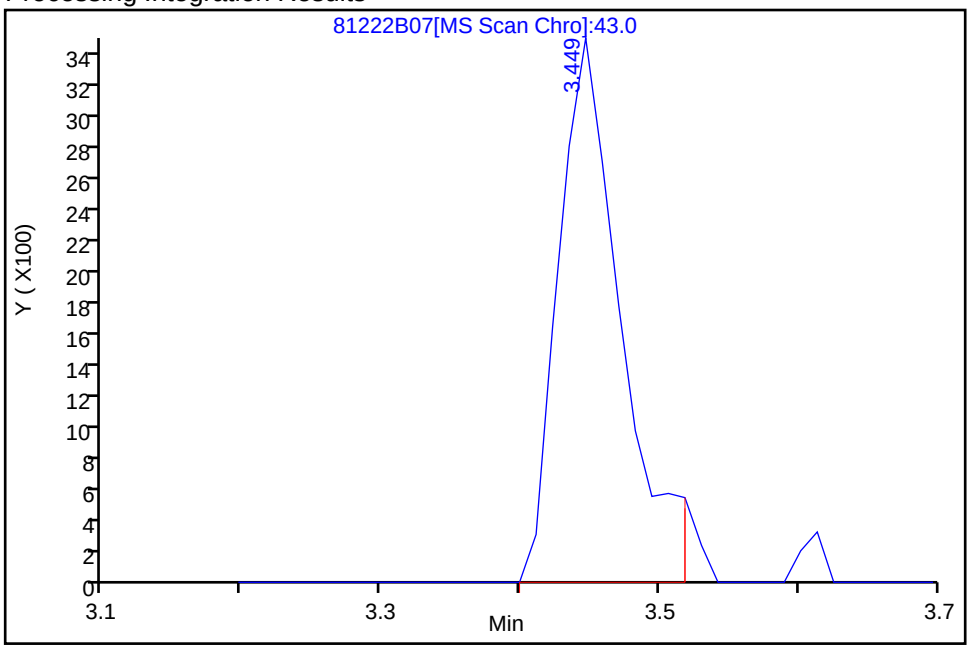
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B07.D		
Injection Date:	22-Dec-2015 12:58:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122215B.b, QL16010-002,500		
Purge Vol.	25 ML	Dil. Factor:	500.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

14 Acetone, CAS: 67-64-1

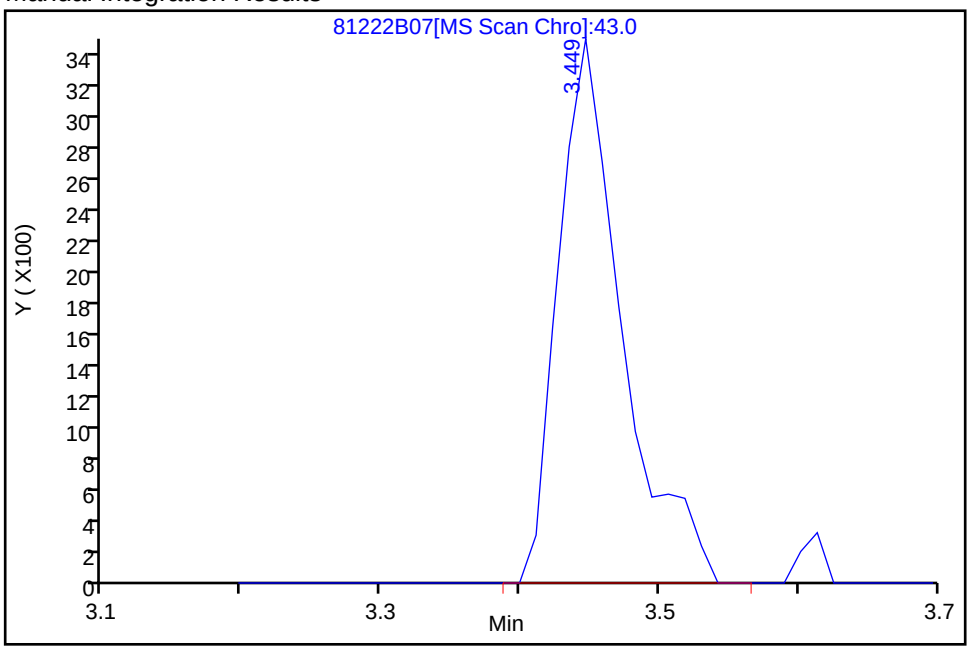
Processing Integration Results

RT: 3.449
Area: 10702
Conc: 5219.09
Conc Units: ug/L
Conc:



Manual Integration Results

RT: 3.449
Area: 11062
Conc: 5394.66
Conc Units: ug/L



Data Editor: all, 22-Dec-2015 13:24:30
Audit Action: Mint
Audit Reason: IAI

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D20

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U
67-64-1	Acetone	22	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.42	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.7	
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	16	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	11	
78-87-5	1,2-Dichloropropane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D20

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	18	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	9.0	
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	16	
95-47-6	o-Xylene	35	E
179601-23-1	m, p-Xylene	57	E
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	7.2	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R33

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: Trace VOA
Level: TRACE
Matrix: Water
Lab Sample ID: QL16010-003
Sample wt/vol: 25.0 (g/mL) mL
Lab File ID: 81221D20
% Solids:
Date Received: 12/16/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/21/2015
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 25.0 (mL)
Injection Volume:
Cleanup Types:
pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03	352-93-2	Diethyl sulfide	7.73	7.0	NJ
04	103-65-1	Benzene, propyl-	12.17	1.3	NJ
05	620-14-4	Benzene, 1-ethyl-3-methyl-	12.24	4.0	NJ
06	526-73-8	Benzene, 1,2,3-trimethyl-	12.30	2.5	NJ
07	611-14-3	Benzene, 1-ethyl-2-methyl-	12.47	2.1	NJ
08	108-67-8	Mesitylene	12.60	7.9	NJ
09	527-84-4	o-Cymene	12.80	2.6	NJ
10	496-11-7	Indane	13.08	3.3	NJ
11	1074-55-1	Benzene, 1-methyl-4-propyl-	13.26	0.97	NJ
12	1758-88-9	Benzene, 2-ethyl-1,4-	13.32	2.2	NJ
13	933-98-2	Benzene, 1-ethyl-2,3-	13.39	1.6	NJ
14	1005-64-7	(E)-1-Phenyl-1-butene	13.48	3.3	NJ
15	934-80-5	Benzene, 4-ethyl-1,2-	13.61	1.4	NJ
16	488-23-3	Benzene, 1,2,3,4-tetramethyl-	13.71	2.0	NJ
17	2050-24-0	Benzene, 1,3-diethyl-5-	13.76	1.4	NJ
18	2039-89-6	Benzene, 2-ethenyl-1,4-	13.91	1.2	NJ
19	95-93-2	Benzene, 1,2,4,5-tetramethyl-	14.00	6.0	NJ
20	119-64-2	Naphthalene, 1,2,3,4-	14.15	1.2	NJ
21	17057-82-8	1H-Indene, 2,3-dihydro-1,2-	14.24	1.0	NJ
22	6682-71-9	1H-Indene, 2,3-dihydro-4,7-	14.28	0.97	NJ
23	4175-53-5	1H-Indene, 2,3-dihydro-1,3-	14.35	2.2	NJ
24	275-51-4	Azulene	14.49	2.8	NJ
25	1680-51-9	Naphthalene, 1,2,3,4-	14.91	1.9	NJ
26	264-09-5	Benzocycloheptatriene	15.40	2.0	NJ
27	4453-90-1	1,4-Methanonaphthalene, 1,4-	15.58	1.6	NJ
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	11.1	J

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D
Lab Sample ID: QL16010-003 Client Sample ID: F6R33
Injection Date: 21-Dec-2015 20:42:30 Dil. Factor: 1.0
Operator: ALL Inst. ID: msd8.i
Sample Info: 8122115D.b, QL16010-003
Method: \\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m
Method Date: 22-Dec-2015 10:43:30 Quant Method: ISTD
Calib Date: 21-Dec-2015 14:32:30 Calib File: 81221D07.D
Sample Type: Client ALS Bottle: 20
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1: DB-624 (0.25 mm) Detector: MS Scan
Data Reviewer: rz Review Date: 05-Jan-2016 09:38:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
1 Dichlorodifluoromethane	85.0		1.745		ND			
2 Chloromethane	50.0		1.922		ND			
$ 3 Vinyl Chloride-d3	65.0	2.041	2.040	0.001	44168	5.8949	5.8949	
4 Vinyl Chloride	62.0		2.052		ND			
5 Bromomethane	94.0		2.395		ND			
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	33956	5.0956	5.0956	
7 Chloroethane	64.0		2.502		ND			
8 Trichlorofluoromethane	101.0		2.786		ND			
$ 12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	107118	4.3365	4.3364	
13 1,1-Dichloroethene	96.0		3.389		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.413		ND			
14 Acetone	43.0	3.437	3.449	-0.012	22592	22.318	22.318	
15 Carbon Disulfide	76.0		3.685		ND			
16 Methyl Acetate	43.0		3.875		ND			
17 Methylene Chloride	84.0	4.005	4.005	0.000	4444	0.41740	0.41730	e
20 Methyl tert-Butyl Ether	73.0		4.372		ND			
21 trans-1,2-Dichloroethene	96.0		4.383		ND			
23 1,1-Dichloroethane	63.0		4.928		ND			
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	135540	62.427	62.427	
26 cis-1,2-Dichloroethene	96.0		5.697		ND			
28 2-Butanone	43.0	5.709	5.709	0.000	10313	5.6569	5.6568	
29 Bromochloromethane	128.0		6.004		ND			
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	113432	5.1741	5.1741	Q
31 Chloroform	83.0		6.111		ND			
33 1,1,1-Trichloroethane	97.0		6.371		ND			
32 Cyclohexane	56.0		6.442		ND			
34 Carbon Tetrachloride	117.0		6.596		ND			

Report Date: 05-Jan-2016 09:38:30 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	51350	5.5065	5.5065	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	250510	5.3498	5.3498	
37 Benzene	78.0	6.857	6.856	0.000	752519	15.529	15.529	
39 1,2-Dichloroethane	62.0		6.880		ND			
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	262425	5.0000	5.0000	
42 Trichloroethene	95.0		7.720		ND			
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	66986	5.1425	5.1425	
43 Methylcyclohexane	83.0	7.981	7.981	0.000	224331	11.342	11.342	
45 1,2-Dichloropropane	63.0		8.016		ND			
49 Bromodichloromethane	83.0		8.383		ND			
50 cis-1,3-Dichloropropene	75.0		8.986		ND			
51 4-Methyl-2-pentanone	43.0		9.199		ND			
$ 52 Toluene-d8	98.0	9.353	9.341	0.012	246578	5.6416	5.6415	
53 Toluene	91.0	9.436	9.436	0.000	912391	17.778	17.778	
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	53129	5.5994	5.5993	
55 trans-1,3-Dichloropropene	75.0		9.684		ND			
56 1,1,2-Trichloroethane	97.0	9.874	9.897	-0.023	51621	9.0304	9.0304	Q
57 Tetrachloroethene	164.0		10.075		ND			
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	82875	61.400	61.400	
60 2-Hexanone	43.0		10.170		ND			
61 Dibromochloromethane	129.0		10.323		ND			
62 1,2-Dibromoethane	107.0		10.454		ND			
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	214271	5.0000	5.0000	
64 Chlorobenzene	112.0		10.939		ND			
65 Ethylbenzene	91.0	11.045	11.045	0.000	901776	15.892	15.892	
67 m+p-Xylenes	106.0	11.152	11.152	0.000	1314068	56.991	56.991	E
68 o-Xylene	106.0	11.507	11.507	0.000	756928	34.948	34.948	E
69 Styrene	104.0		11.519		ND			
70 Bromoform	173.0		11.684		ND			
71 Isopropylbenzene	105.0	11.826	11.826	0.000	395542	7.2005	7.2004	
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.051	12.039	0.012	28220	5.6051	5.6050	
74 1,1,2,2-Tetrachloroethane	83.0		12.075		ND			
83 1,3-Dichlorobenzene	146.0		12.820		ND			
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	100571	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0		12.891		ND			
$ 87 1,2-Dichlorobenzene-d4	152.0	13.152	13.163	-0.011	63982	5.4270	5.4270	
89 1,2-Dichlorobenzene	146.0		13.175		ND			
90 1,2-Dibromo-3-chloropropane	75.0		13.719		ND			
91 1,2,4-Trichlorobenzene	180.0		14.299		ND			
94 1,2,3-Trichlorobenzene	180.0		14.666		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

E - Compound Concentration Exceeds Max. Calibration Range

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Lab Sample ID:	QL16010-003	Client Sample ID:	F6R33
Injection Date:	21-Dec-2015 20:42:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, QL16010-003		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:43:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	20
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	05-Jan-2016 09:38:30

Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown Alkane						
6.454	857851	5.3446	5.3446	41				
		Unknown Alkane						
6.999	928264	5.7832	5.7832	41				
352-93-2		Diethyl sulfide						
7.732	1131258	7.0479	7.0479	41	98	2334	C4H10S	90
103-65-1		Benzene, propyl-						
12.169	1167868	1.3182	1.3182	85	91	9406	C9H12	120
620-14-4		Benzene, 1-ethyl-3-methyl-						
12.240	3547654	4.0045	4.0045	85	97	9423	C9H12	120
526-73-8		Benzene, 1,2,3-trimethyl-						
12.300	2230568	2.5178	2.5178	85	95	9418	C9H12	120
611-14-3		Benzene, 1-ethyl-2-methyl-						
12.465	1868341	2.1089	2.1089	85	95	9425	C9H12	120
108-67-8		Mesitylene						
12.595	6961577	7.8580	7.8580	85	95	9400	C9H12	120
527-84-4		o-Cymene						
12.797	2335595	2.6363	2.6363	85	97	14810	C10H14	134
496-11-7		Indane						
13.081	2940184	3.3188	3.3188	85	93	8949	C9H10	118
1074-55-1		Benzene, 1-methyl-4-propyl-						
13.258	858427	0.96896	0.96896	85	95	14857	C10H14	134
1758-88-9		Benzene, 2-ethyl-1,4-dimethyl-						
13.317	1906545	2.1520	2.1520	85	97	14889	C10H14	134
933-98-2		Benzene, 1-ethyl-2,3-dimethyl-						
13.388	1454796	1.6421	1.6421	85	96	14880	C10H14	134

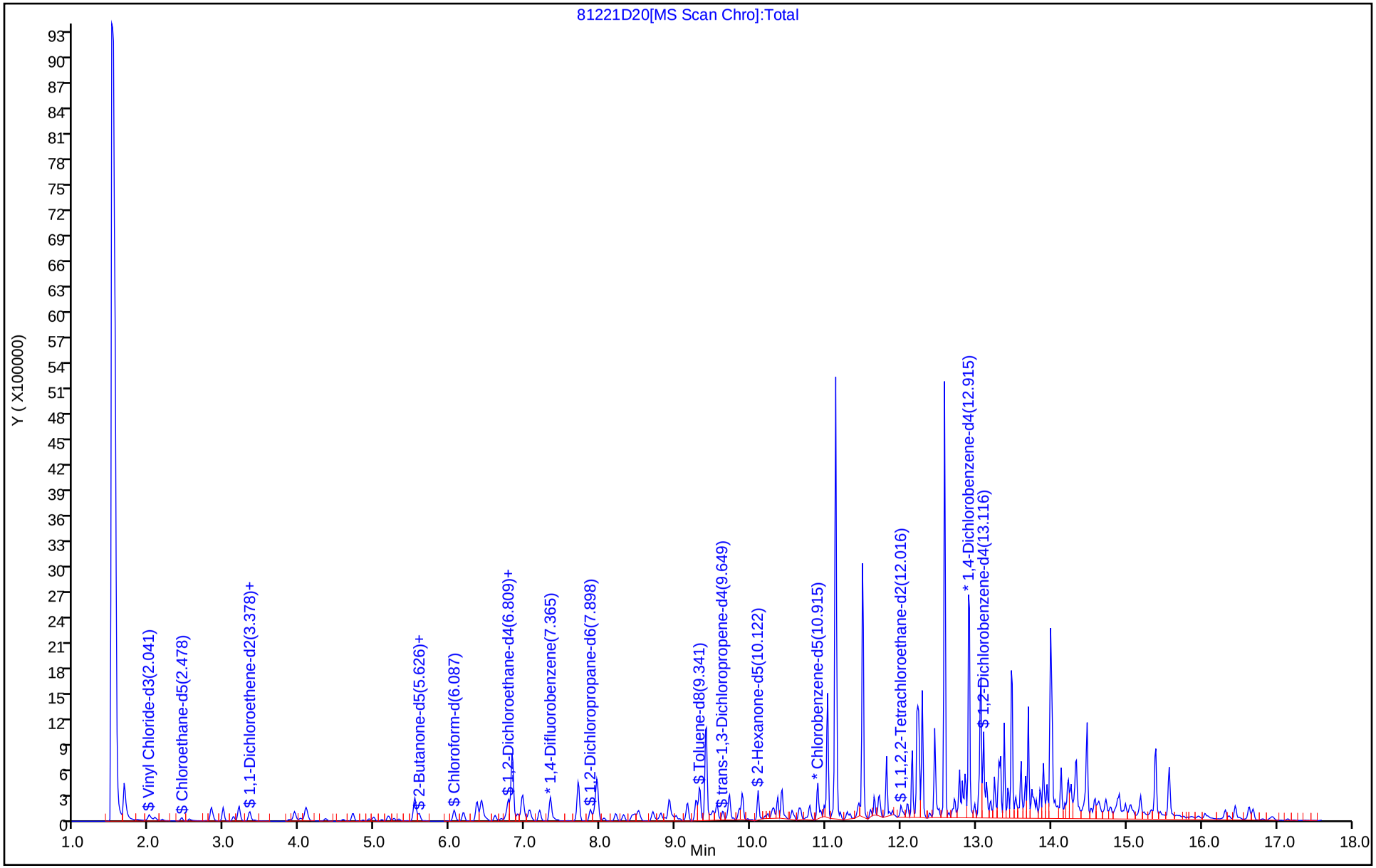
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
1005-64-7	(E)-1-Phenyl-1-butene							
13.483	2901139	3.2747	3.2747	85	90	14051	C10H12	132
934-80-5	Benzene, 4-ethyl-1,2-dimethyl-							
13.613	1197078	1.3512	1.3512	85	95	14888	C10H14	134
488-23-3	Benzene, 1,2,3,4-tetramethyl-							
13.708	1784442	2.0142	2.0142	85	97	14869	C10H14	134
2050-24-0	Benzene, 1,3-diethyl-5-methyl-							
13.755	1253219	1.4146	1.4146	85	98	22806	C11H16	148
2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-							
13.909	1092217	1.2329	1.2329	85	91	14074	C10H12	132
95-93-2	Benzene, 1,2,4,5-tetramethyl-							
14.004	5325861	6.0116	6.0116	85	97	14872	C10H14	134
119-64-2	Naphthalene, 1,2,3,4-tetrahydro-							
14.146	1047021	1.1818	1.1818	85	96	14082	C10H12	132
17057-82-8	1H-Indene, 2,3-dihydro-1,2-dimethyl-							
14.240	909107	1.0262	1.0262	85	96	21646	C11H14	146
6682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethyl-							
14.276	855217	0.96534	0.96534	85	95	21653	C11H14	146
4175-53-5	1H-Indene, 2,3-dihydro-1,3-dimethyl-							
14.347	1960786	2.2133	2.2133	85	94	21647	C11H14	146
275-51-4	Azulene							
14.489	2446298	2.7613	2.7613	85	95	11935	C10H8	128
1680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl							
14.915	1683967	1.9008	1.9008	85	95	21670	C11H14	146
264-09-5	Benzocycloheptatriene							
15.400	1740615	1.9647	1.9647	85	91	19230	C11H10	142
4453-90-1	1,4-Methanonaphthalene, 1,4-dihydro-							
15.577	1394407	1.5740	1.5740	85	93	19242	C11H10	142

Quant. Compounds	RT	Response	Amount ug/L
* 41 1,4-Difluorobenzene	7.365	802546	5.0000
* 85 1,4-Dichlorobenzene-d4	12.868	4429635	5.0000

Report Date: 05-Jan-2016 09:38:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D				
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	F6R33	Lab ID:	QL16010-003		
Sample Info:	8122115D.b, QL16010-003				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

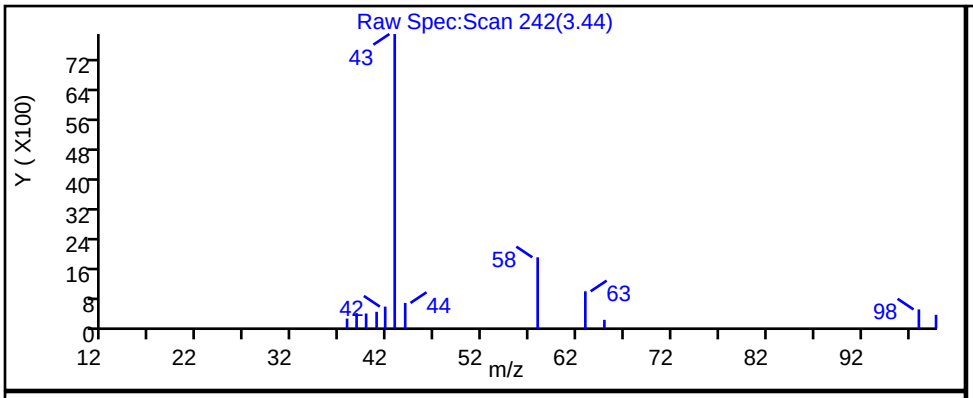


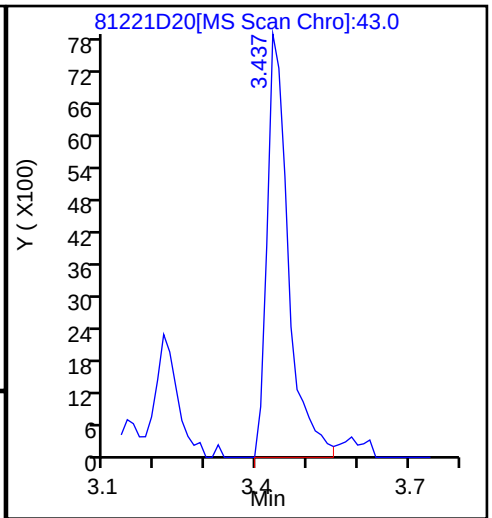
Report Date: 05-Jan-2016 09:38:30 AIM Revision: 1.0 26-May-2015 13:41:26

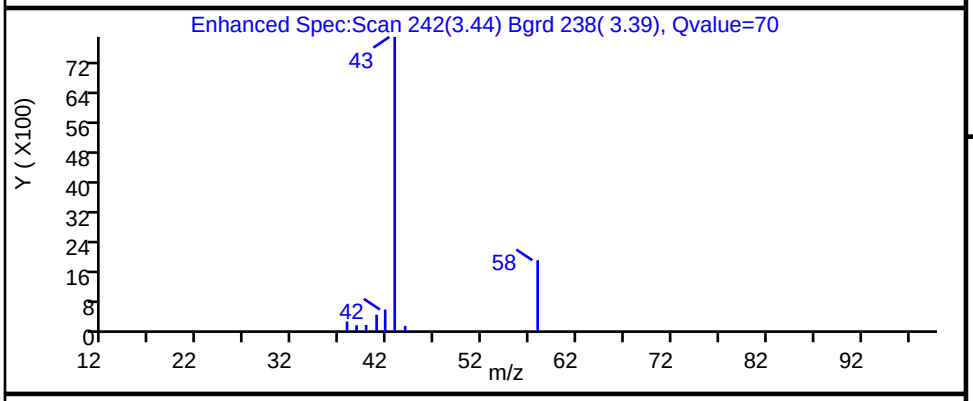
Shealy Environmental Services

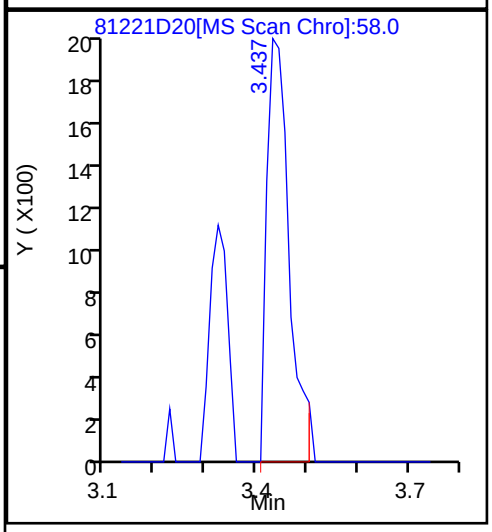
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

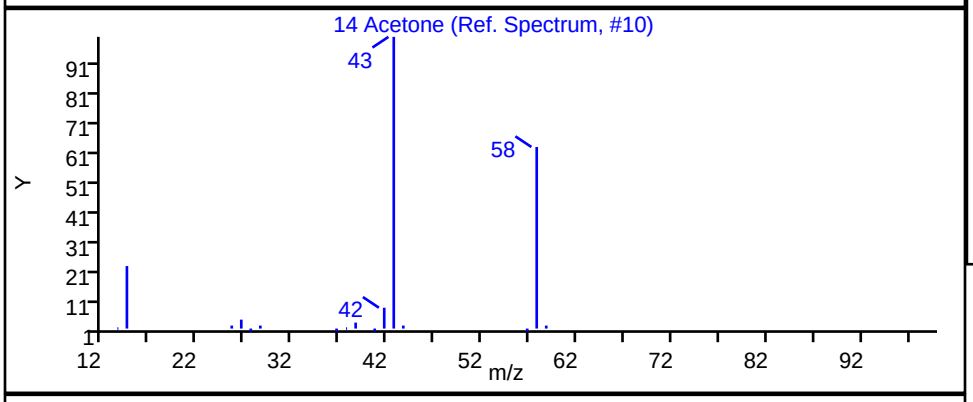
14 Acetone

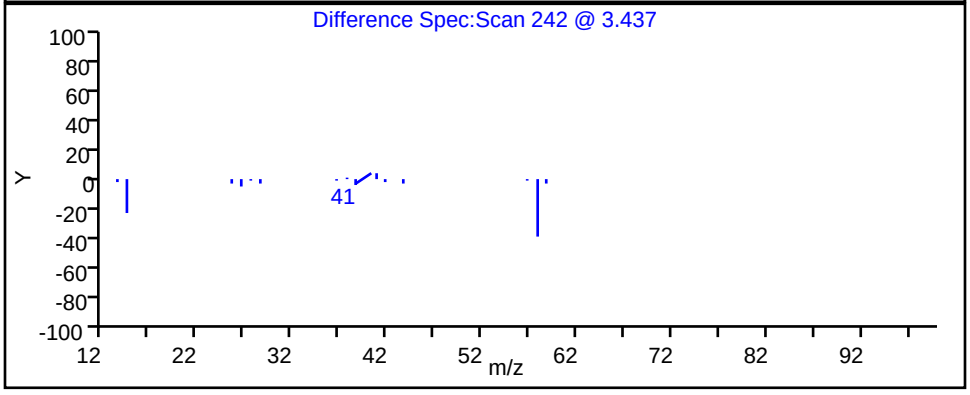












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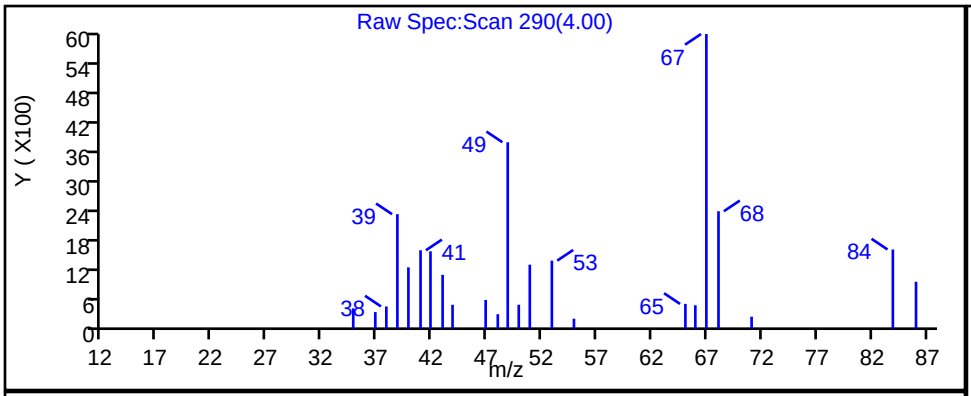
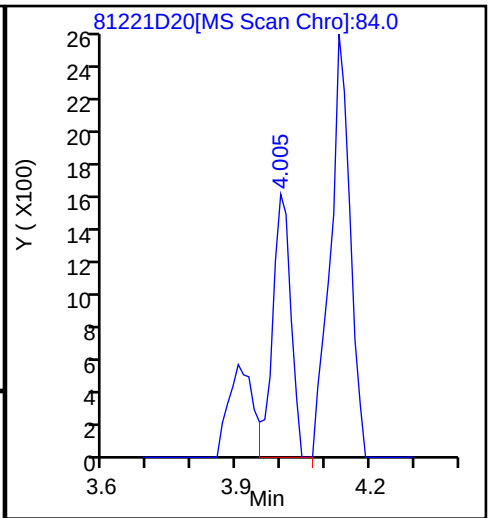
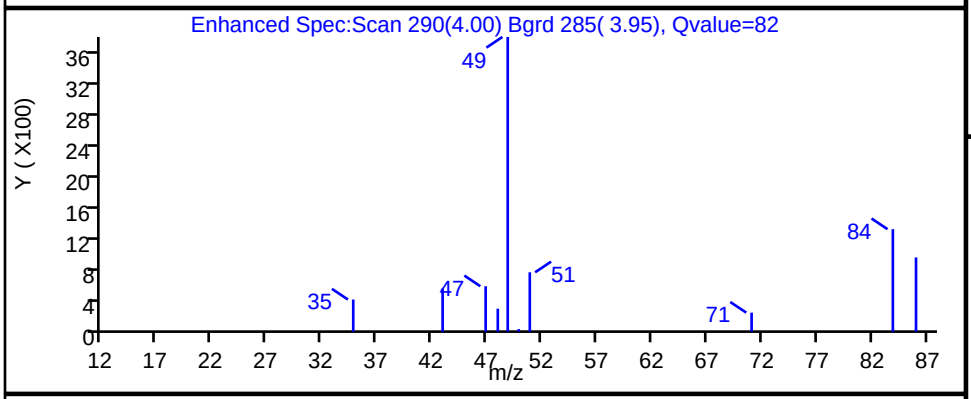
Shealy Environmental Services

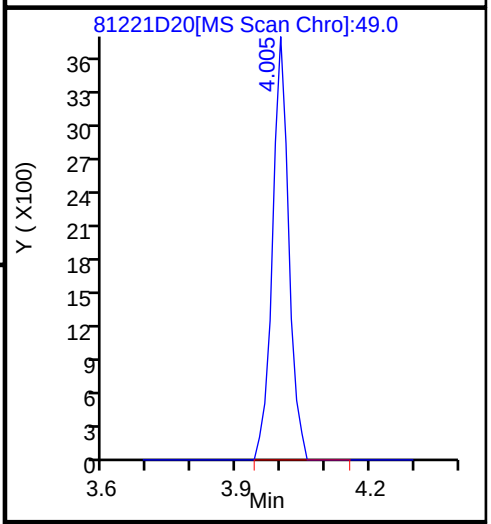
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

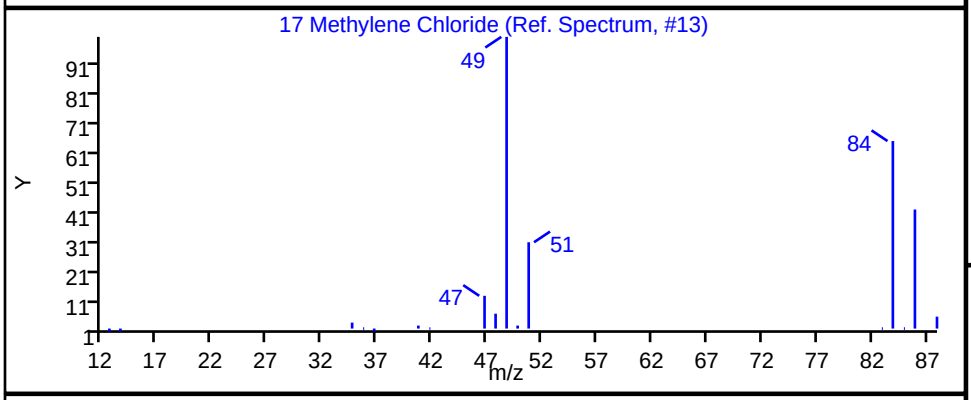
17 Methylene Chloride

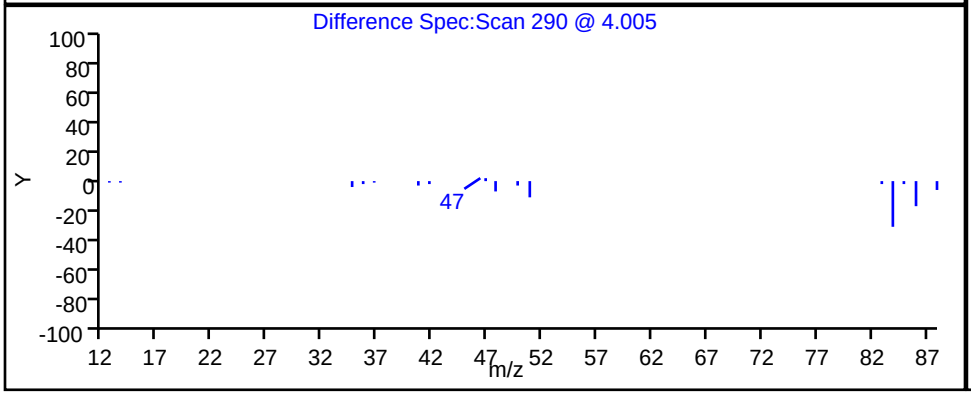


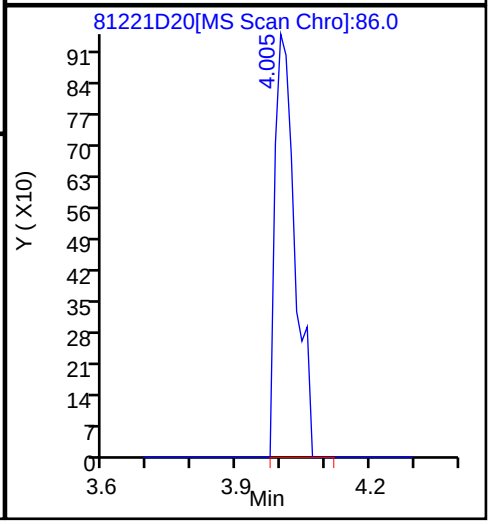








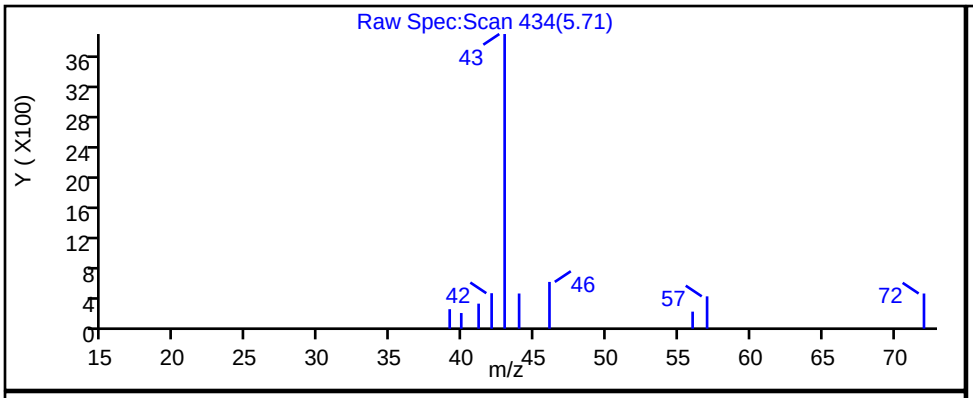


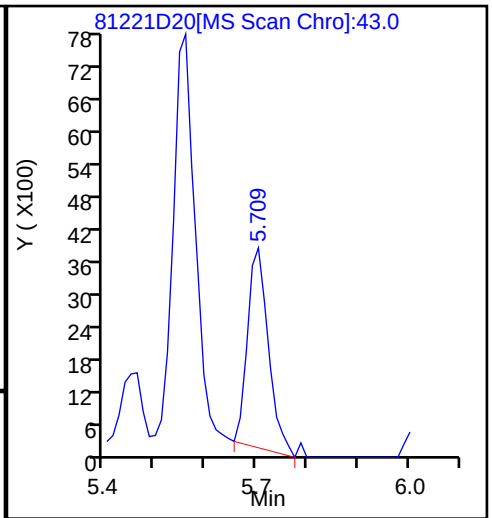


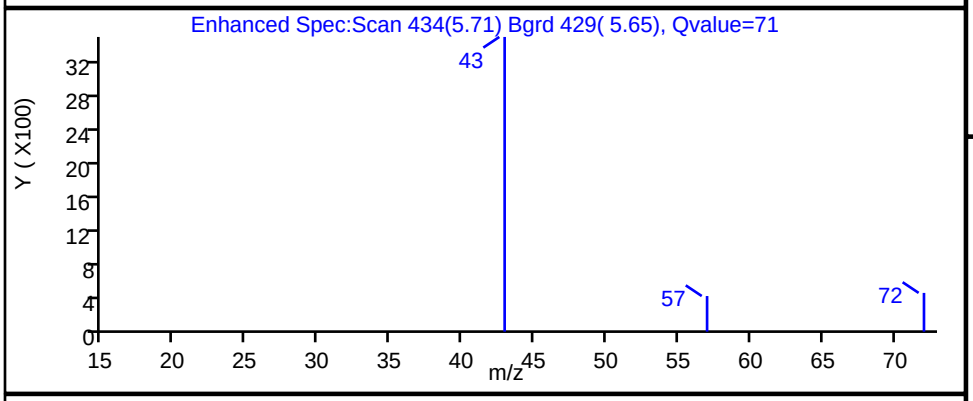
Shealy Environmental Services

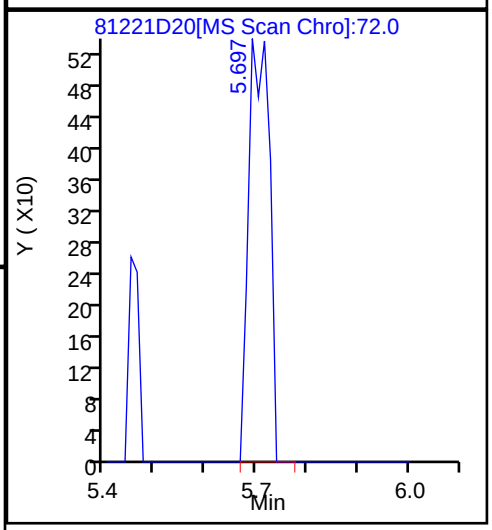
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

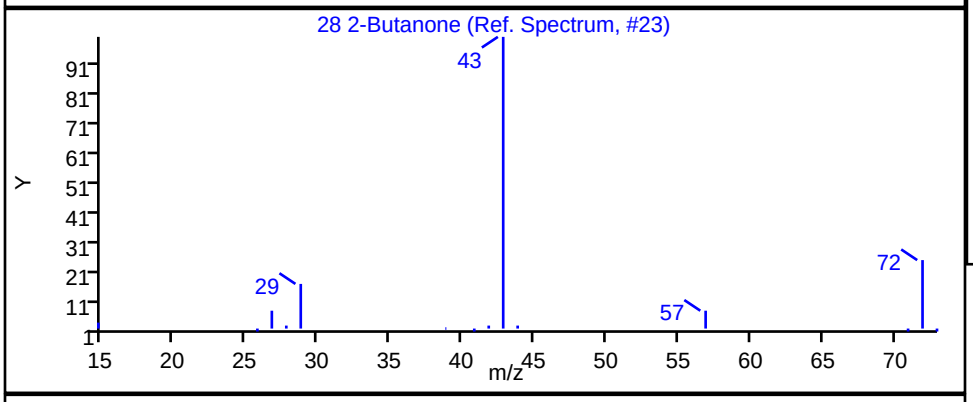
28 2-Butanone

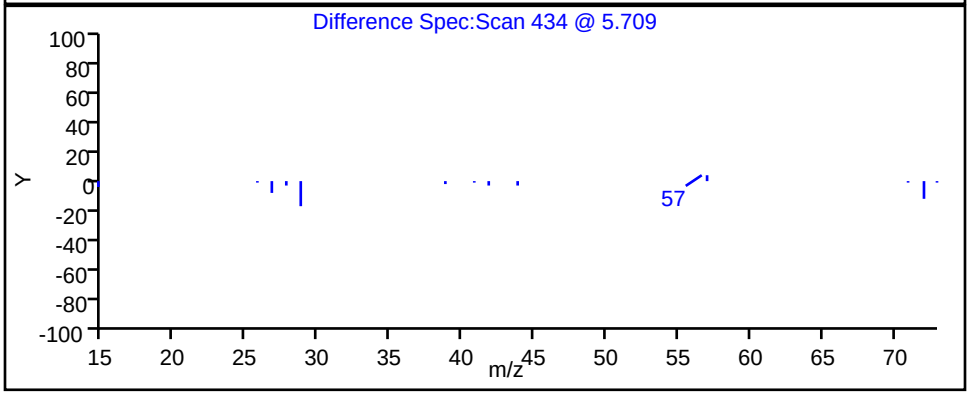










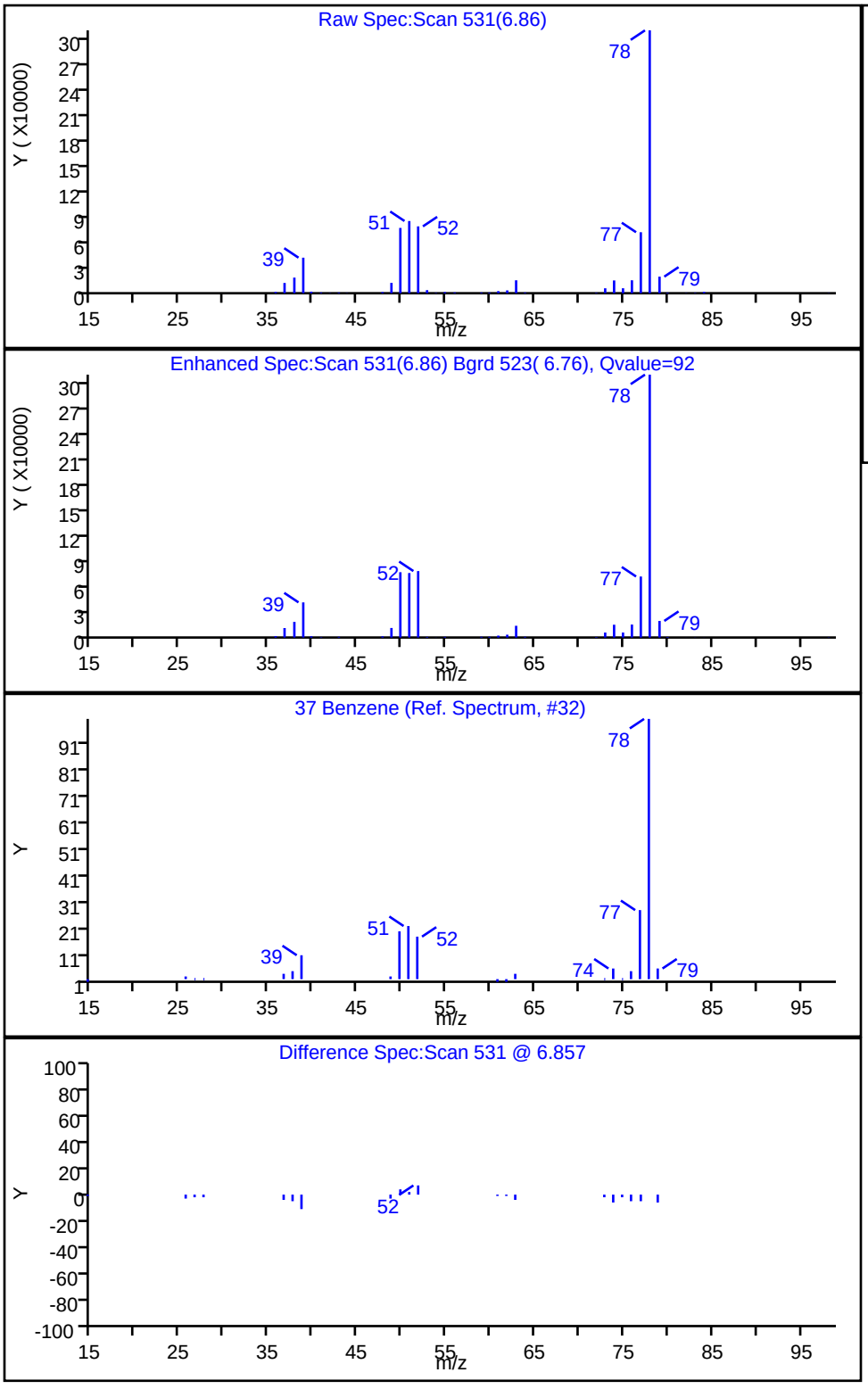


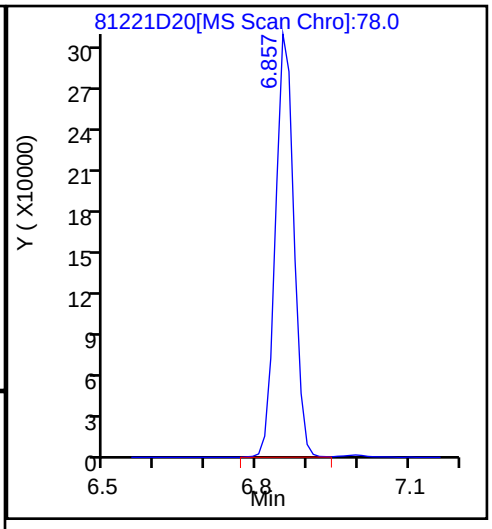
Report Date: 05-Jan-2016 09:38:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

37 Benzene



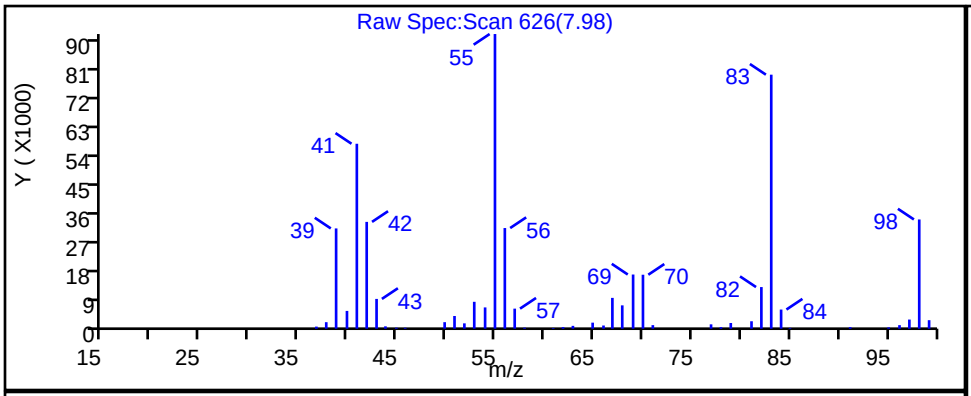


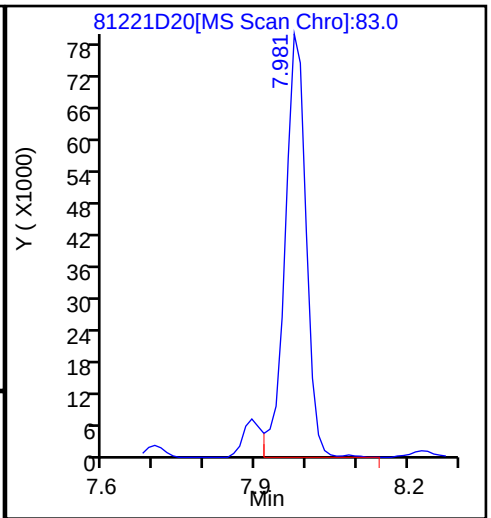
Report Date: 05-Jan-2016 09:38:30 AIM Revision: 1.0 26-May-2015 13:41:26

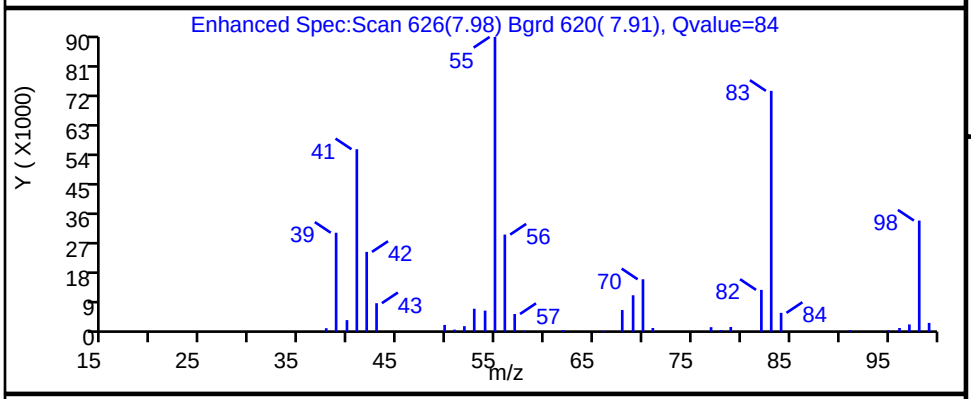
Shealy Environmental Services

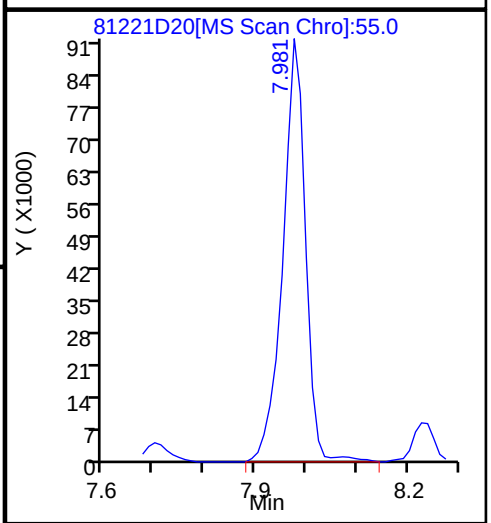
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

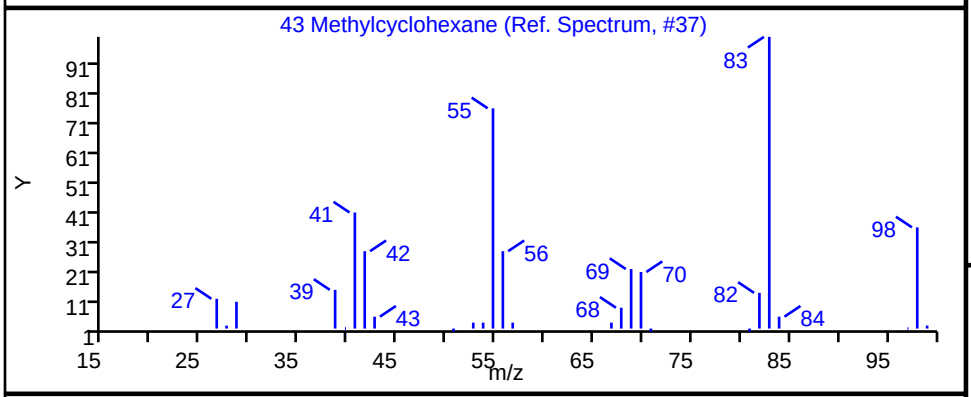
43 Methylcyclohexane

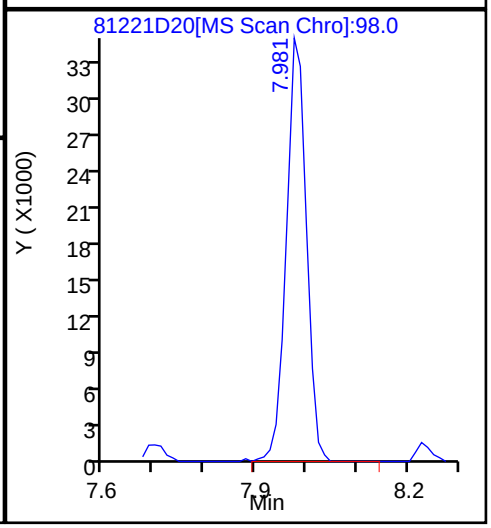


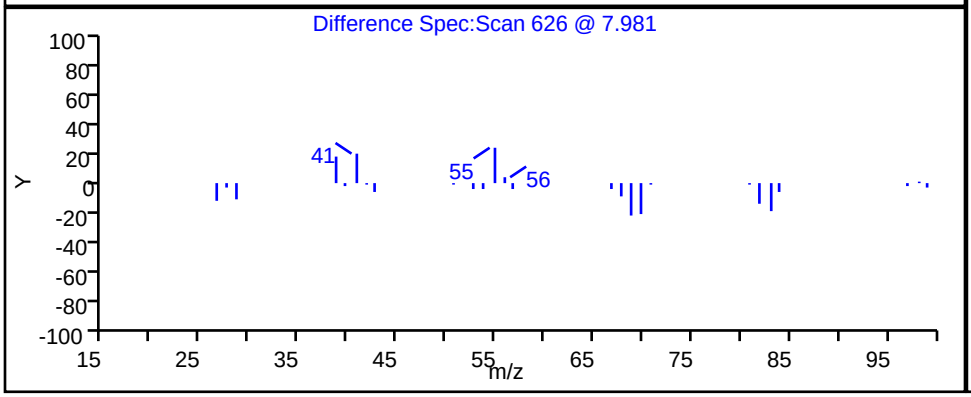










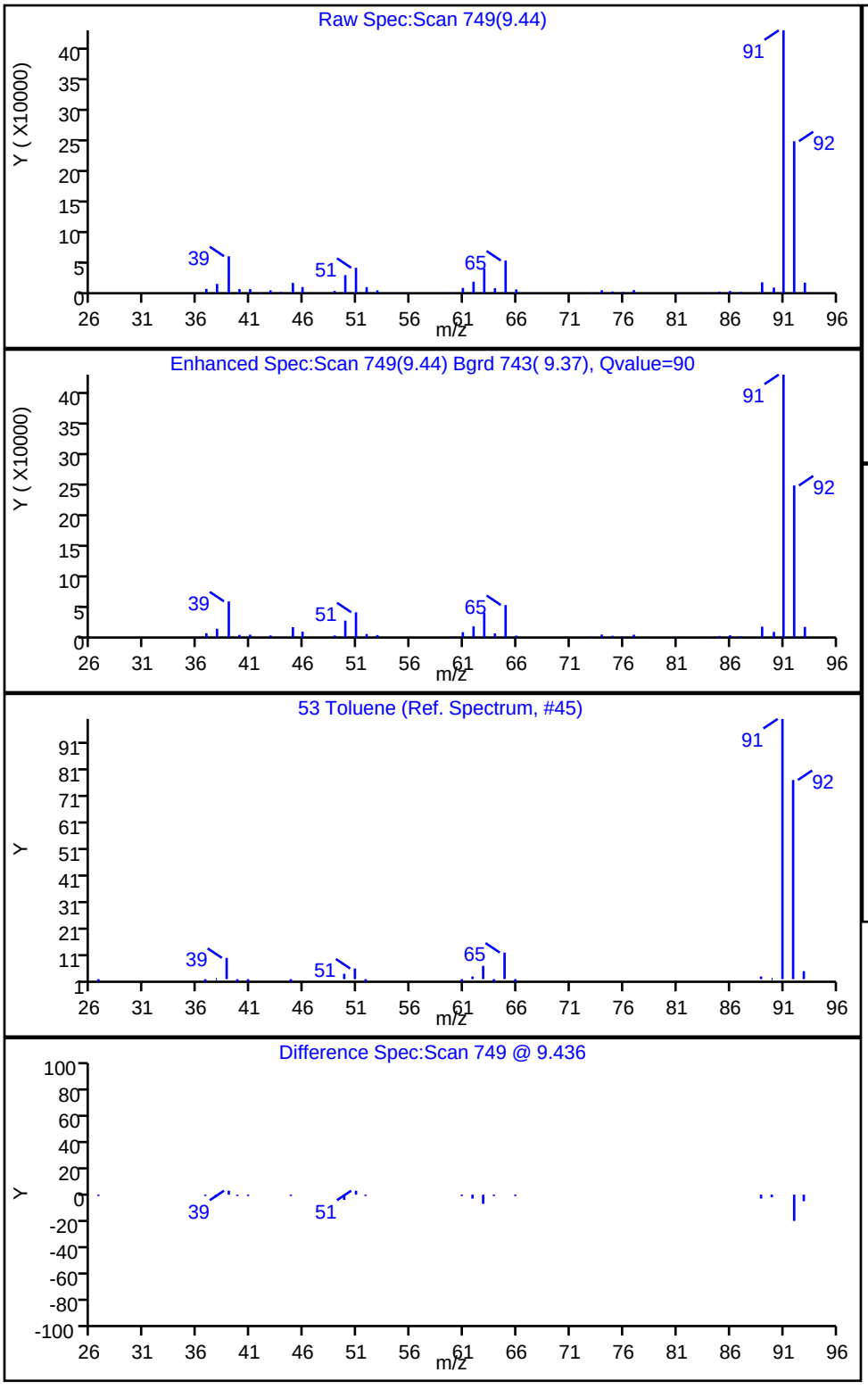


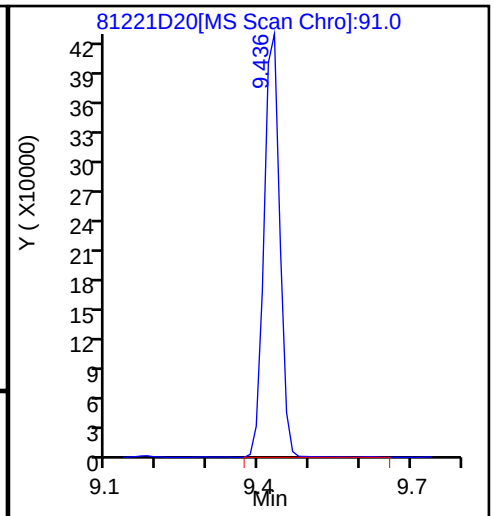
Report Date: 05-Jan-2016 09:38:30 AIM Revision: 1.0 26-May-2015 13:41:26

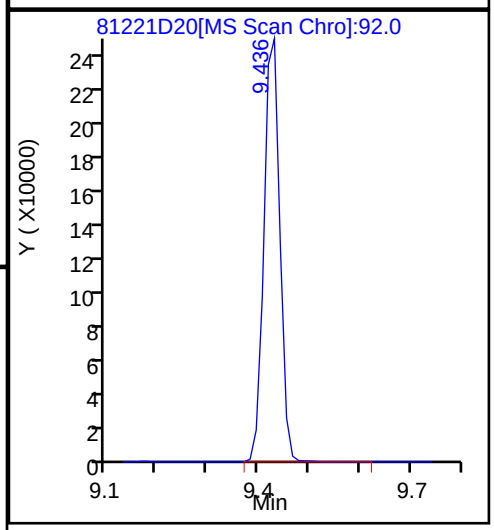
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

53 Toluene





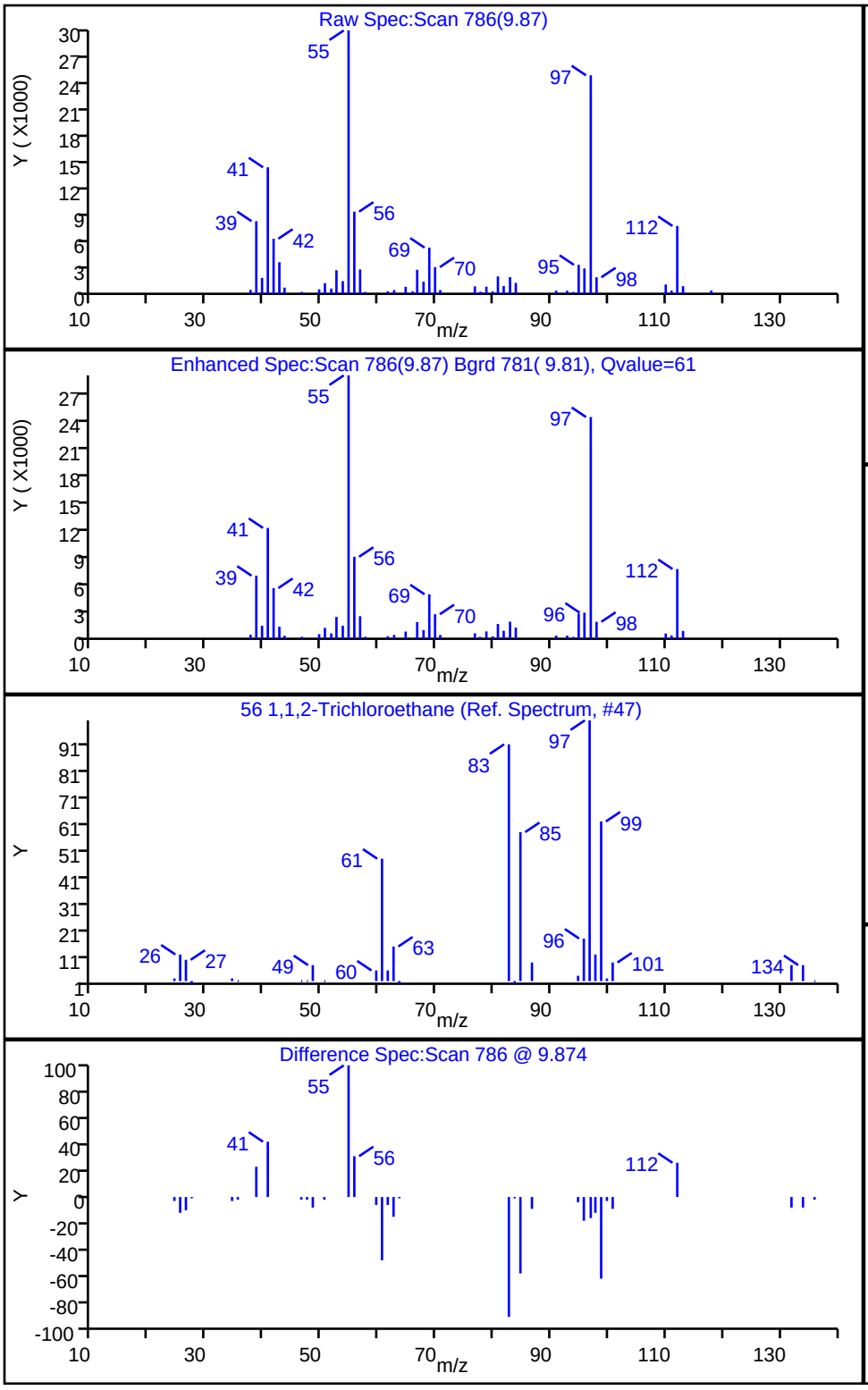


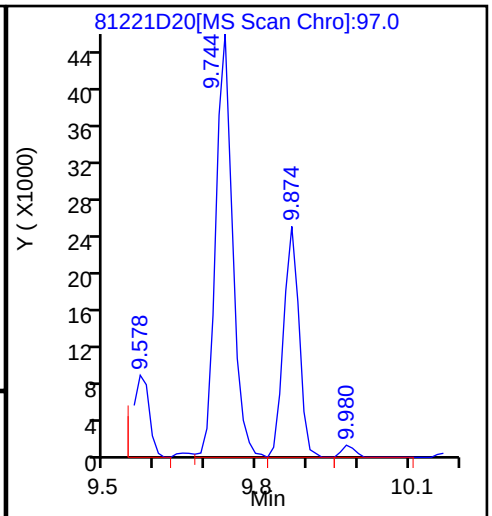
Report Date: 05-Jan-2016 09:38:30 AIM Revision: 1.0 26-May-2015 13:41:26

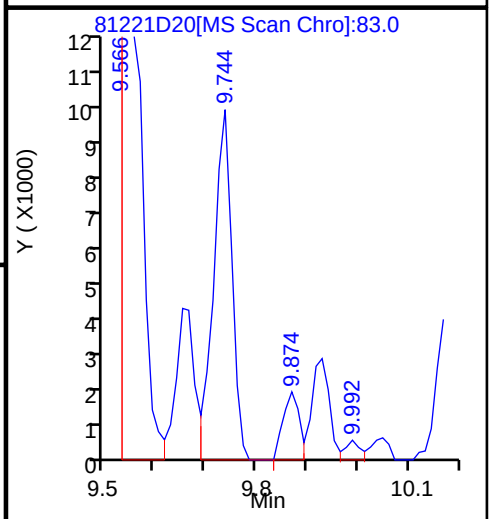
Shealy Environmental Services

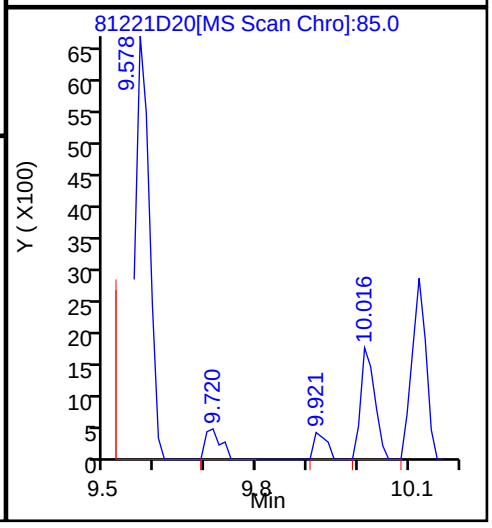
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

56 1,1,2-Trichloroethane







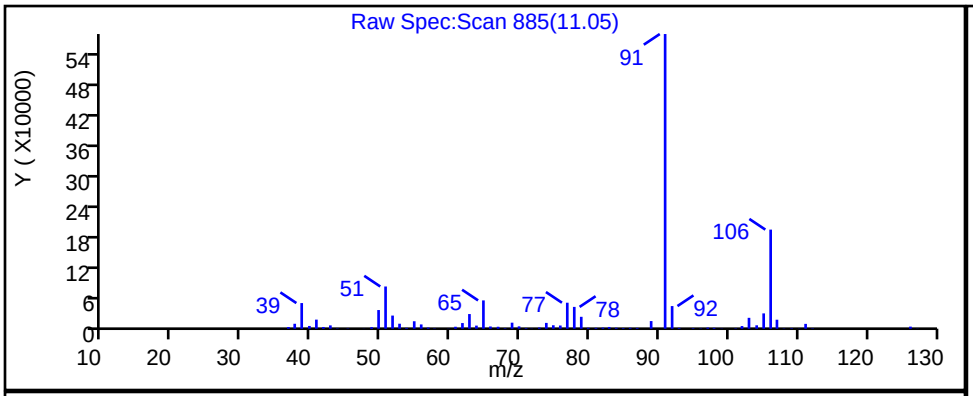


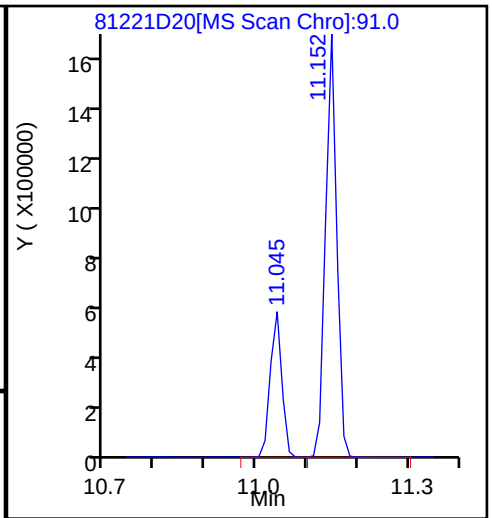
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

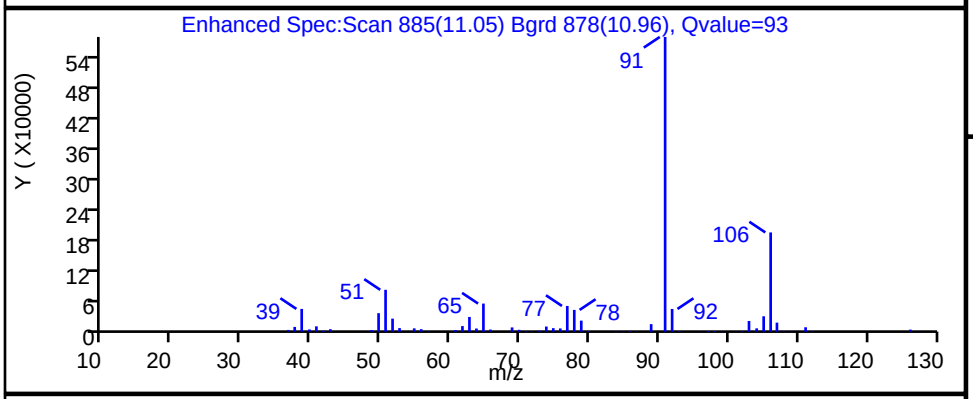
Shealy Environmental Services

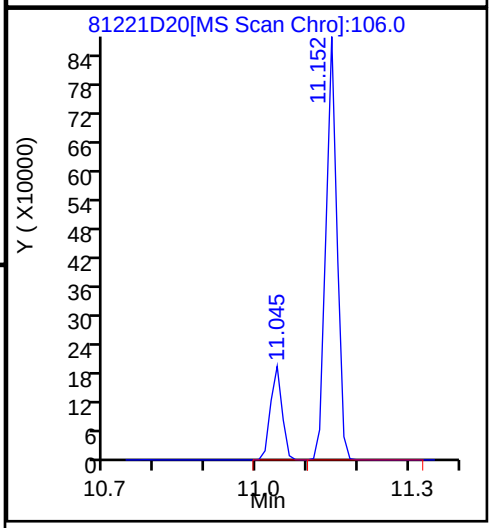
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

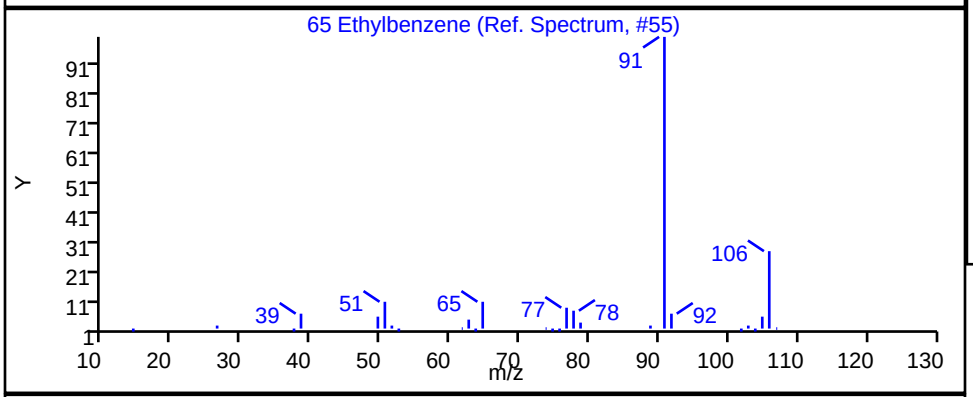
65 Ethylbenzene

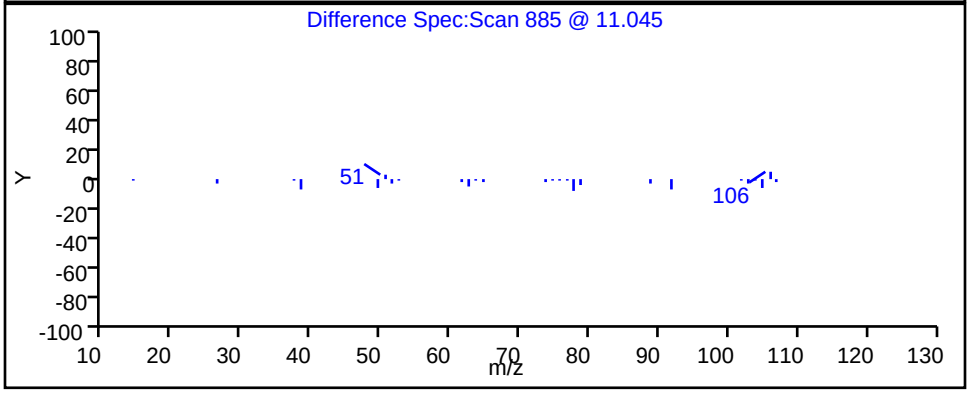












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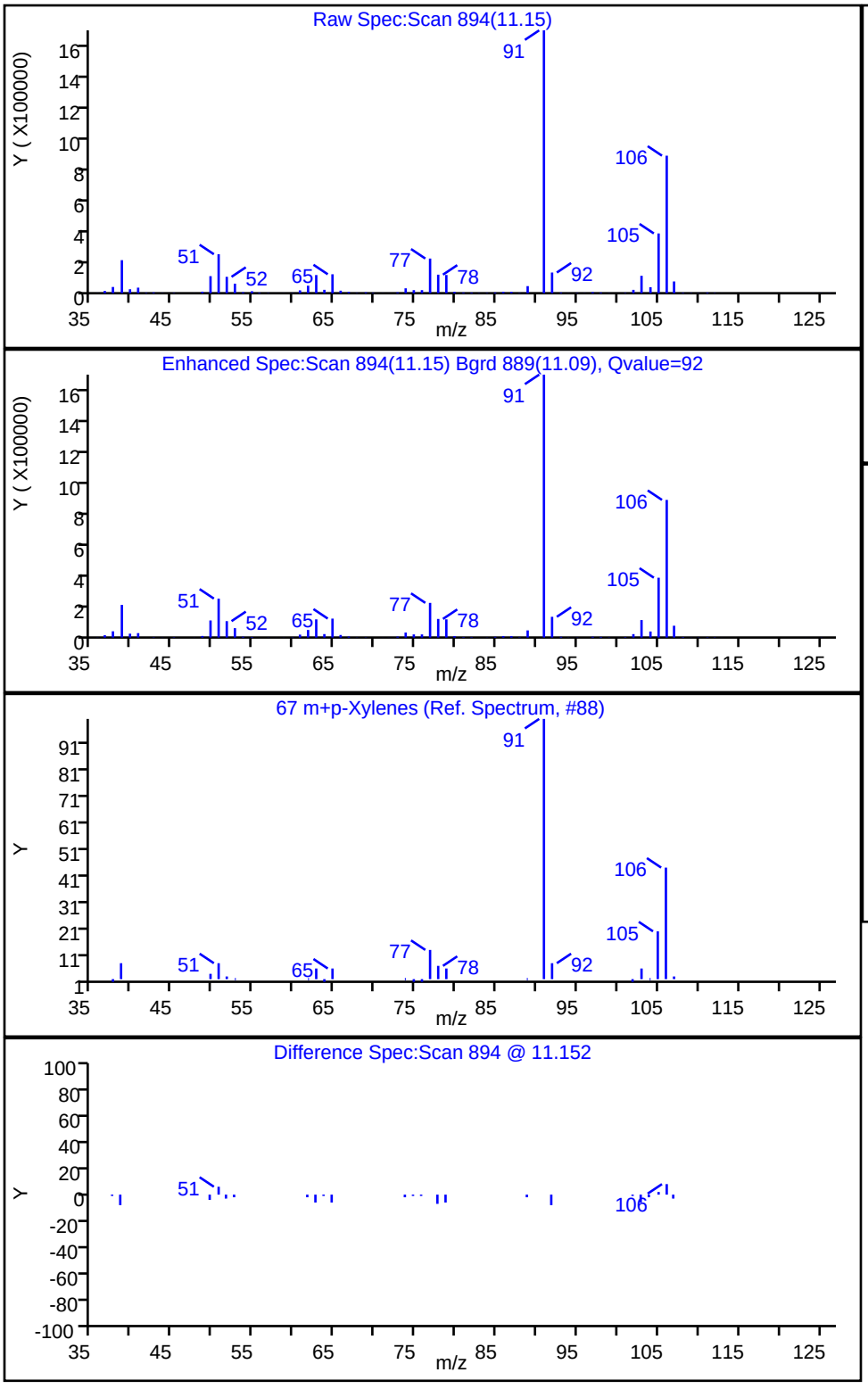
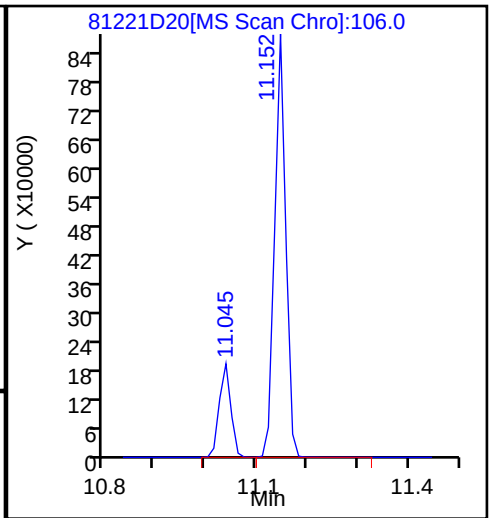
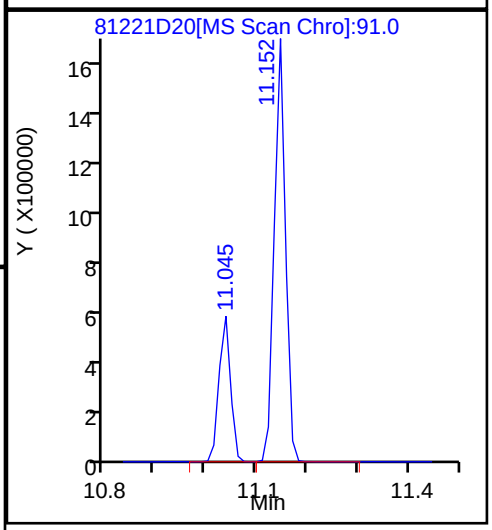
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

67 m+p-Xylenes





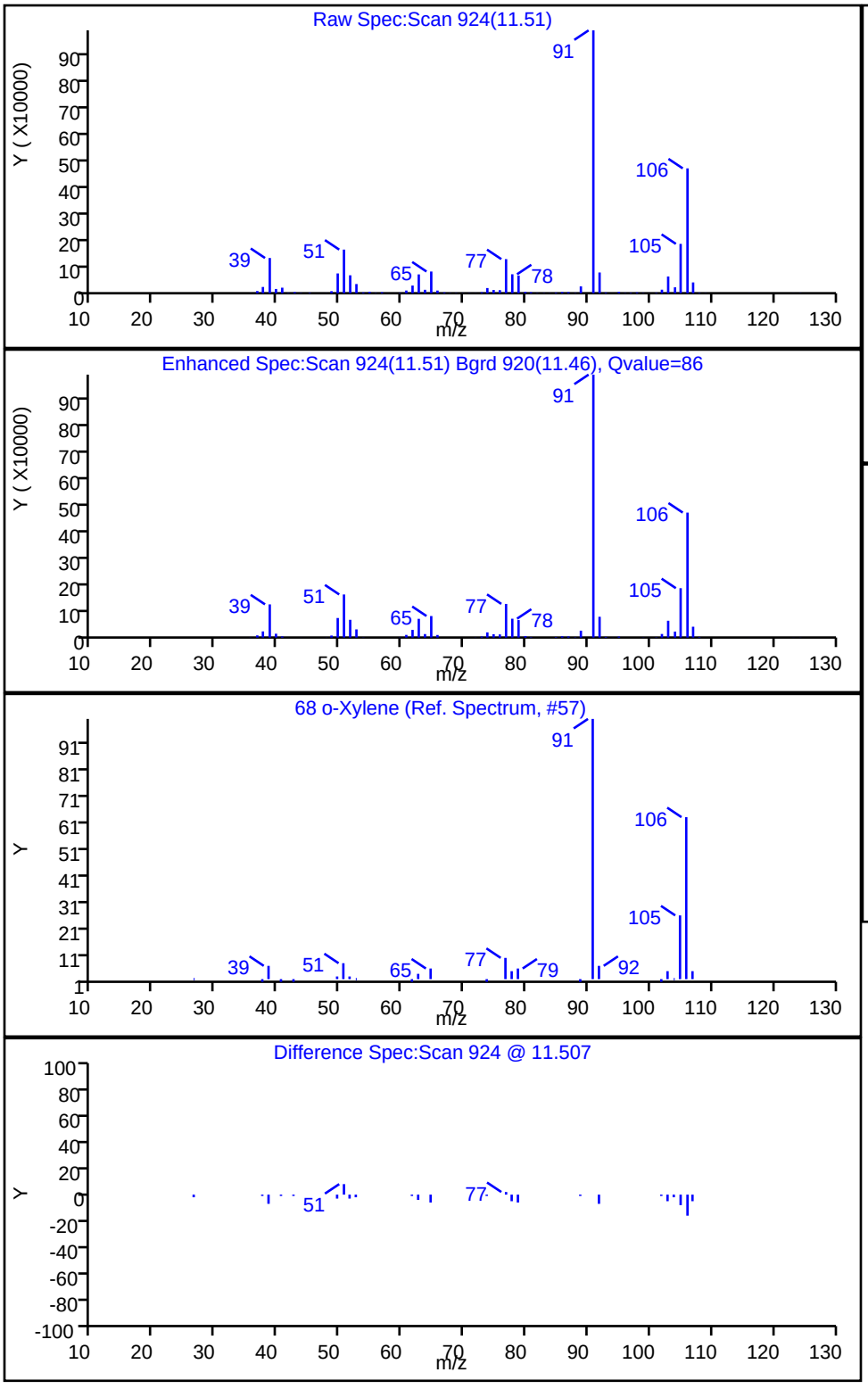


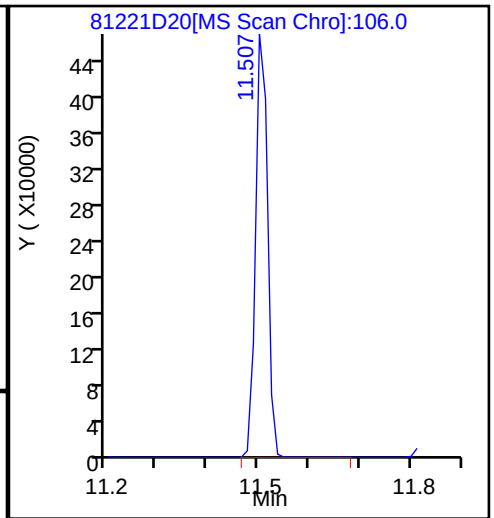
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

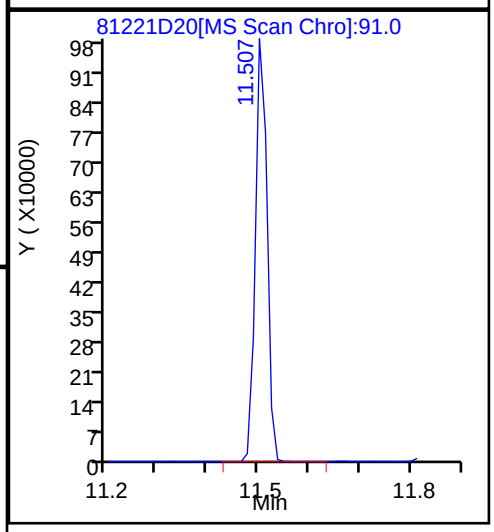
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

68 o-Xylene





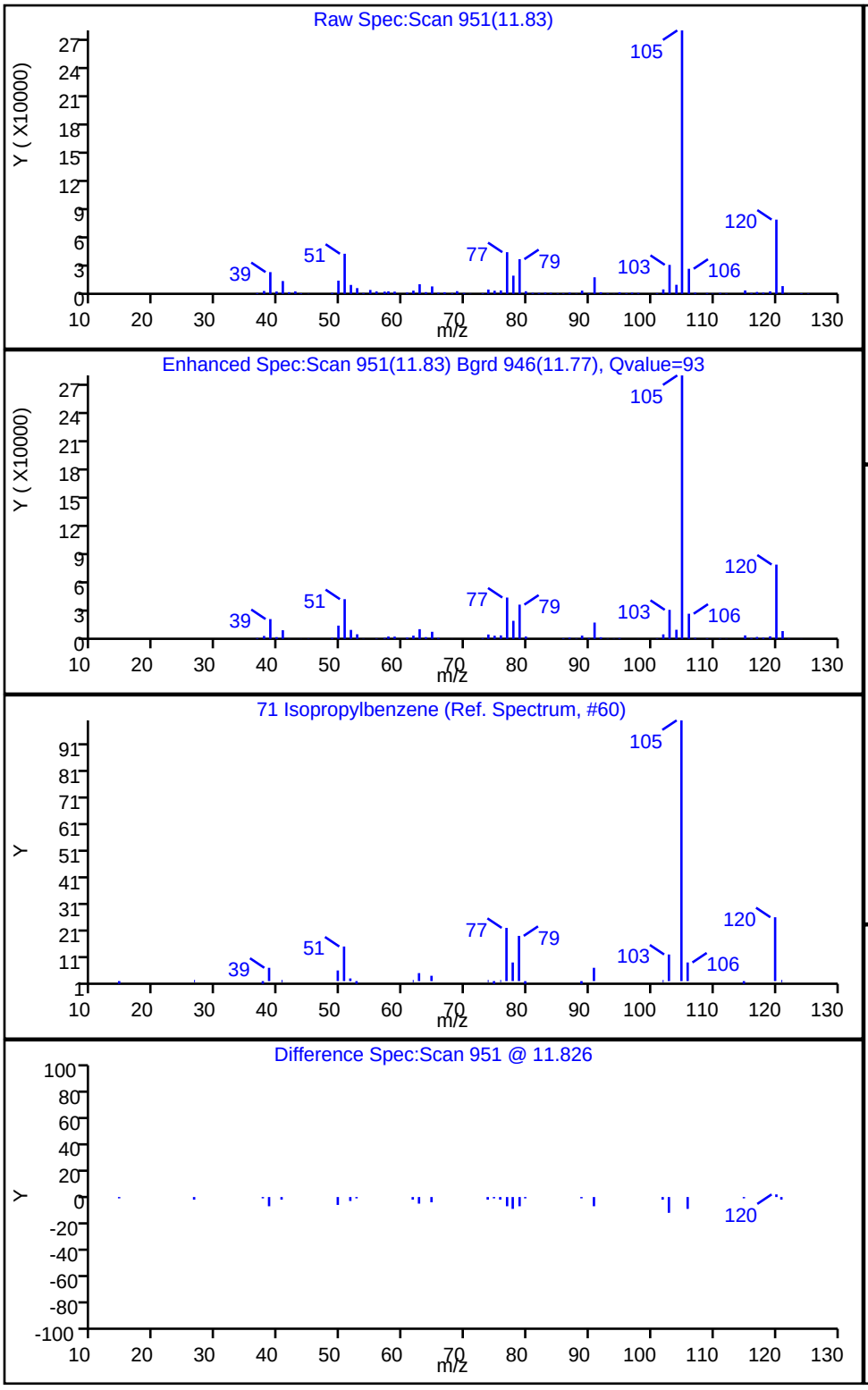


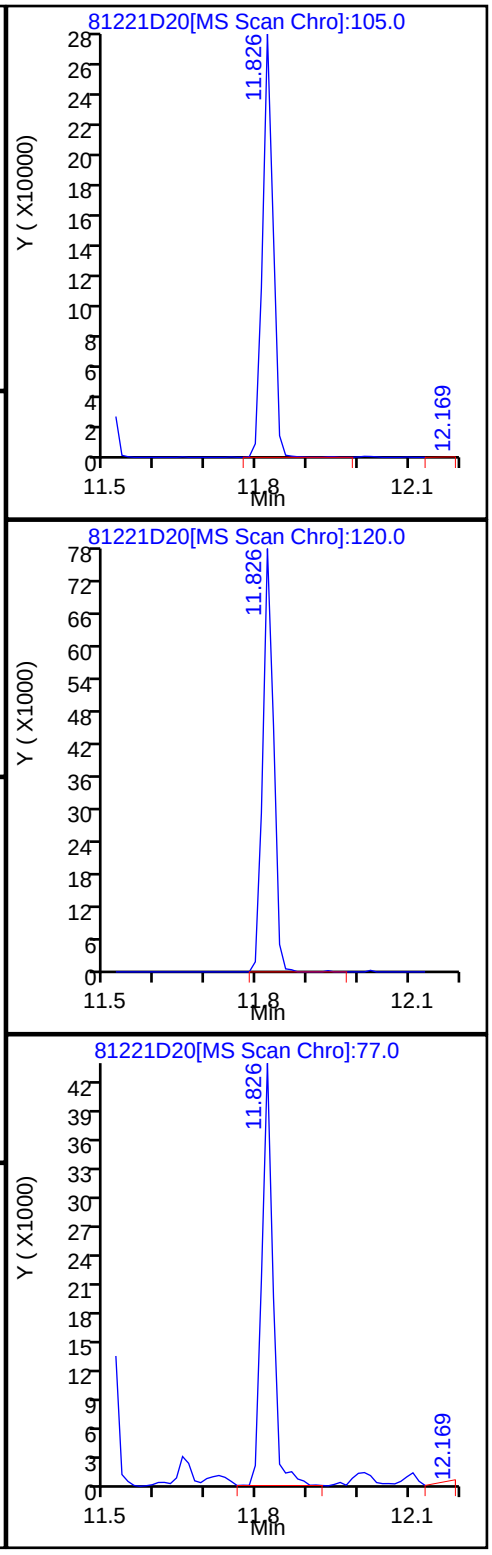
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

71 Isopropylbenzene





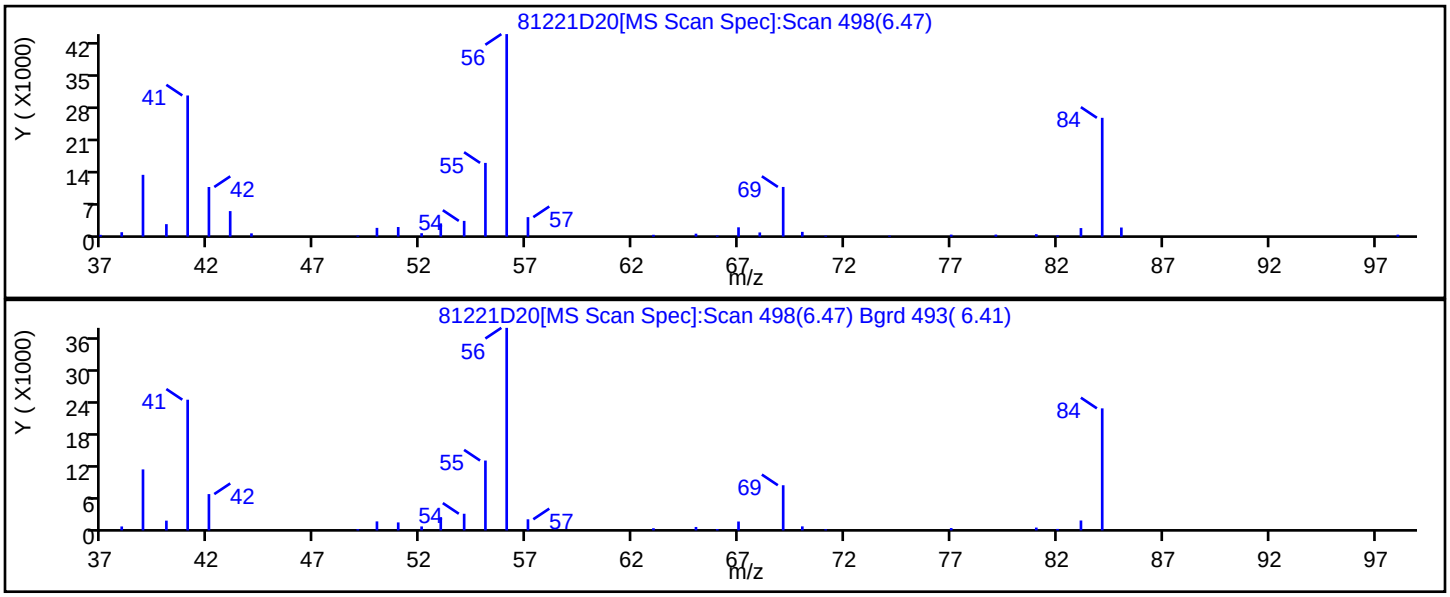
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 6.454

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



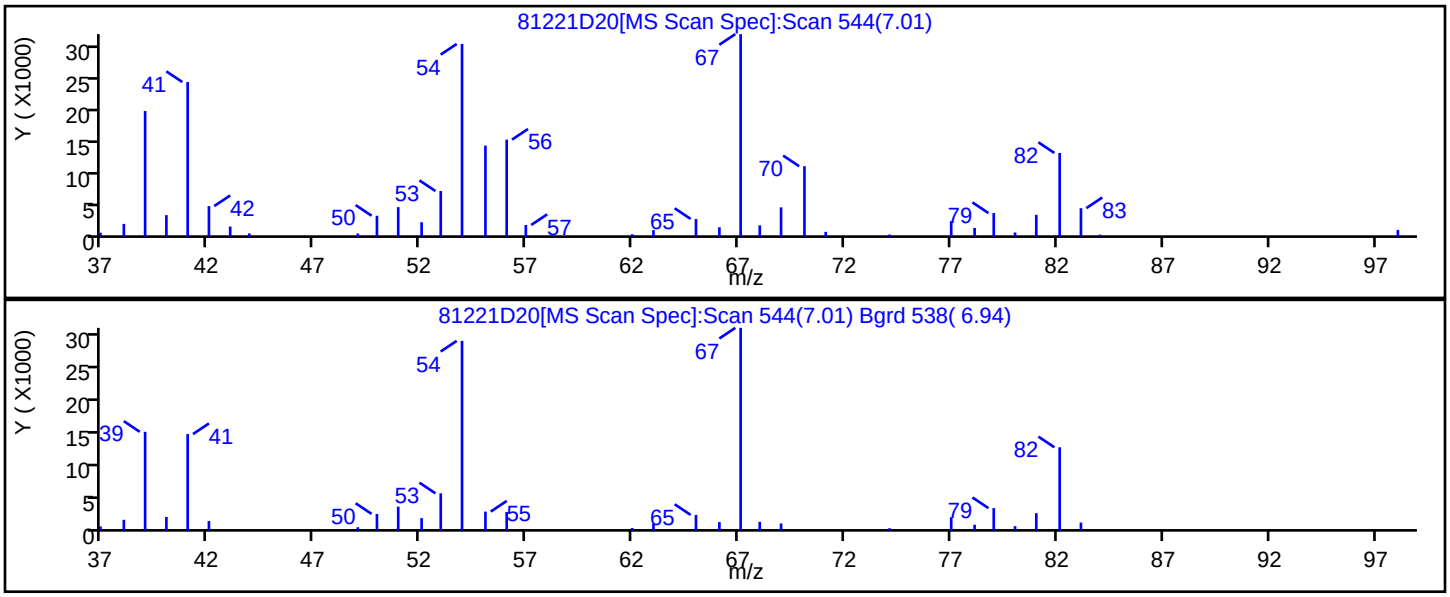
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 6.999

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



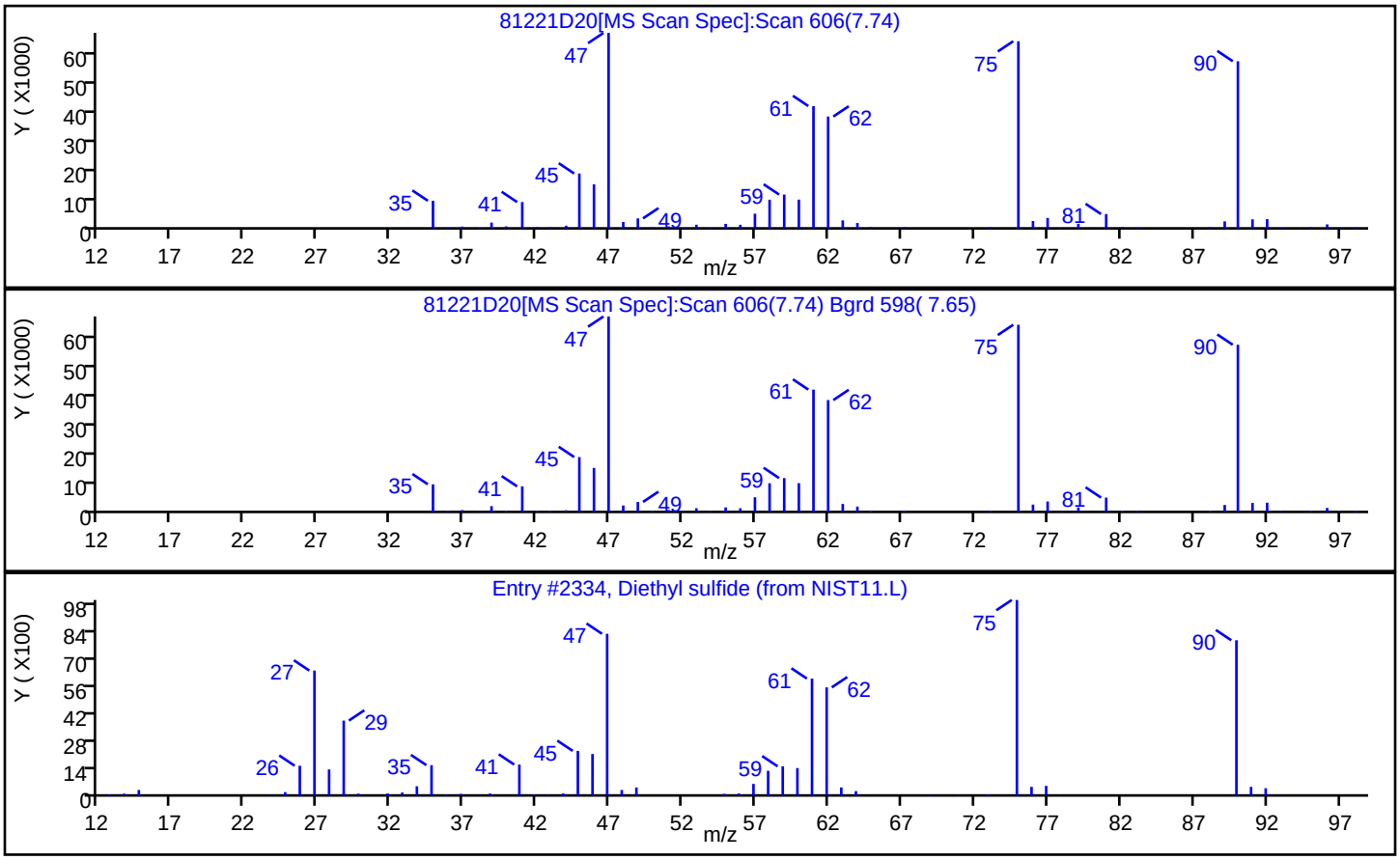
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 7.732

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Diethyl sulfide	352-93-2	NIST11	2334	C4H10S	90	98



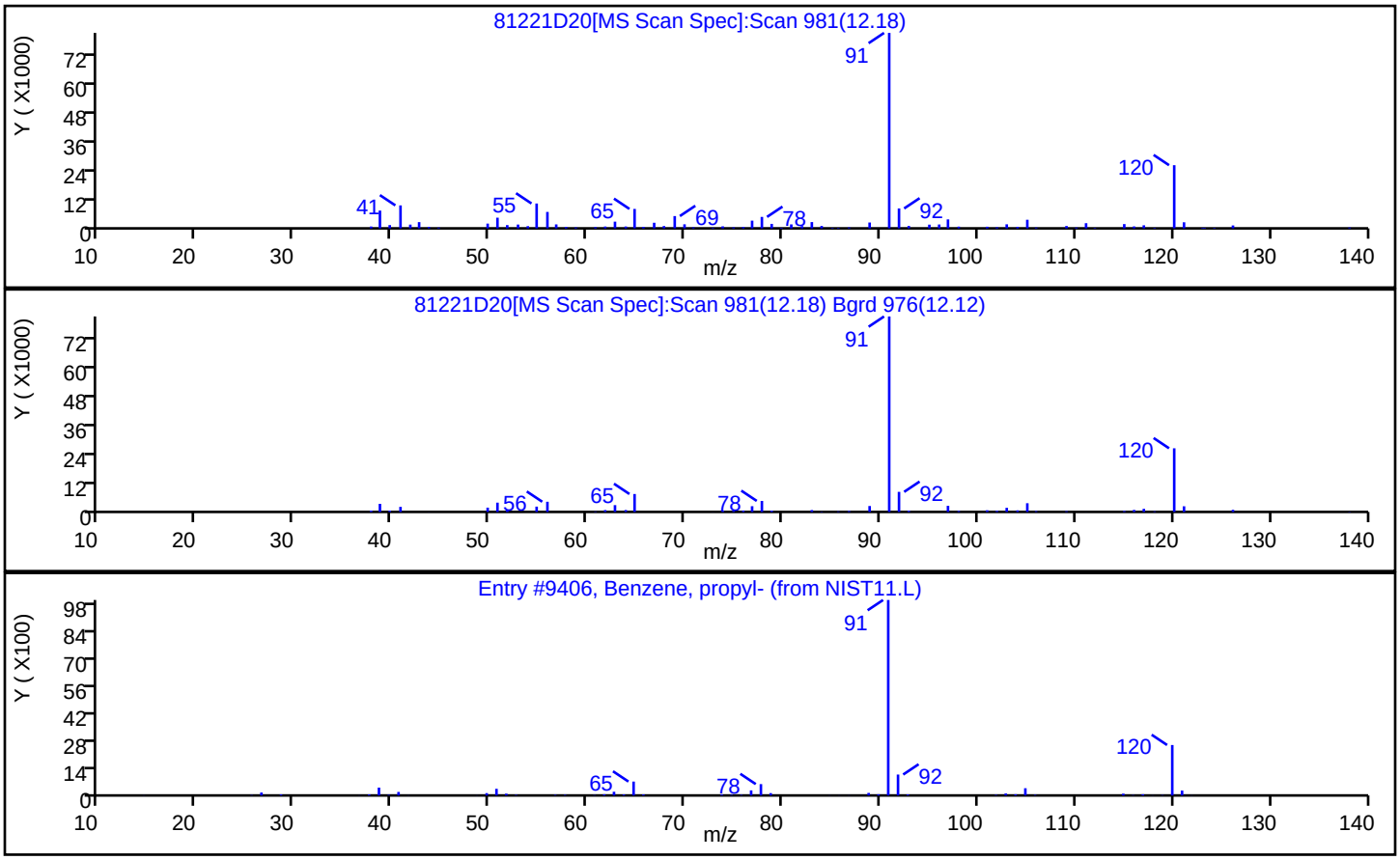
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.169

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, propyl-	103-65-1	NIST11	9406	C9H12	120	91



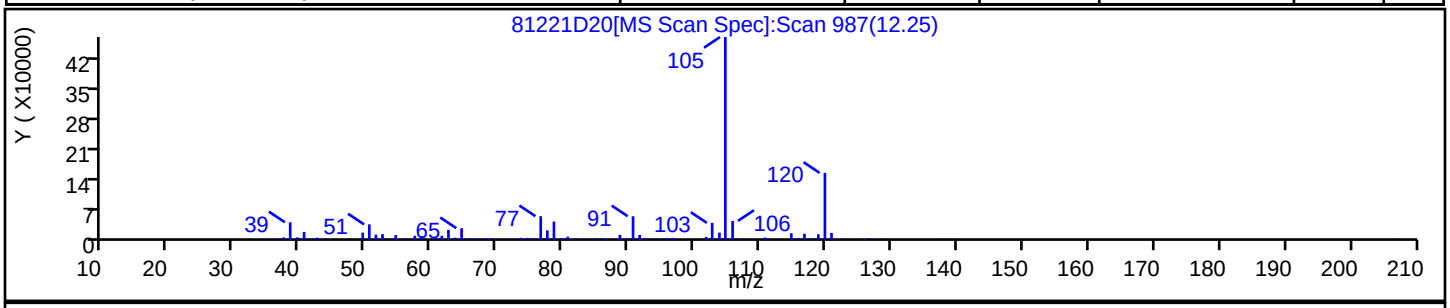
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

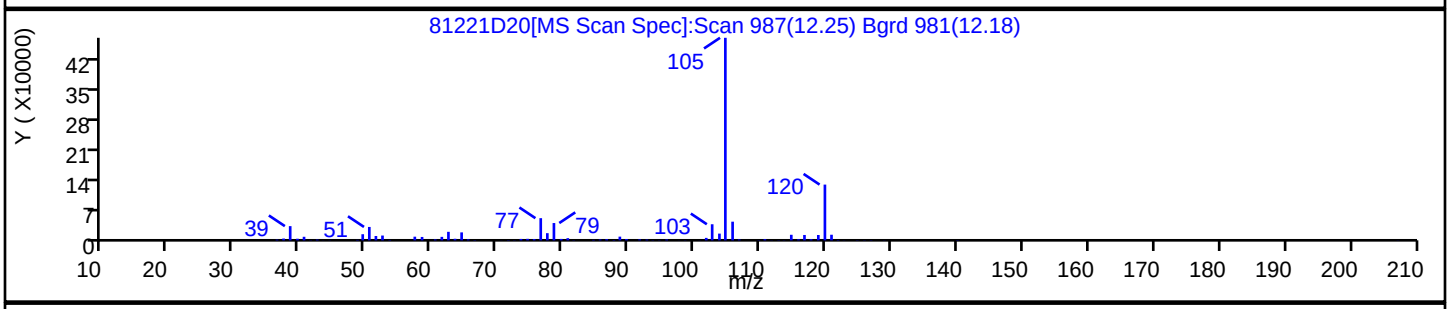
Shealy Environmental Services

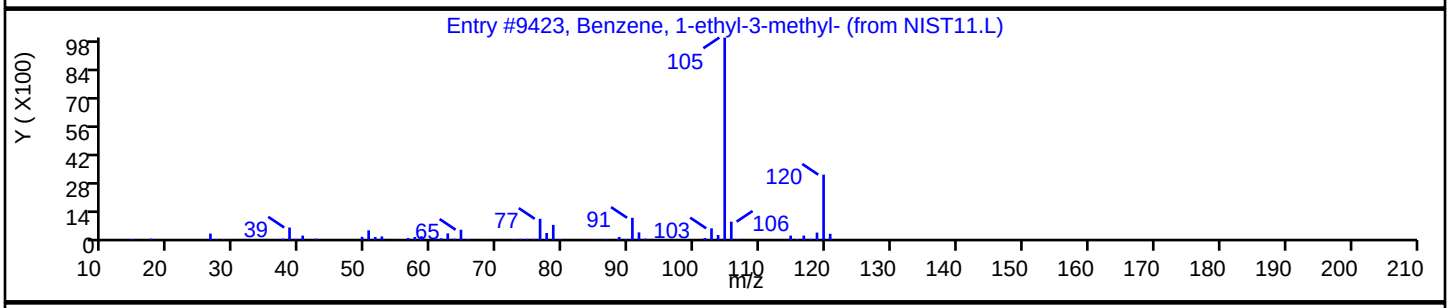
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

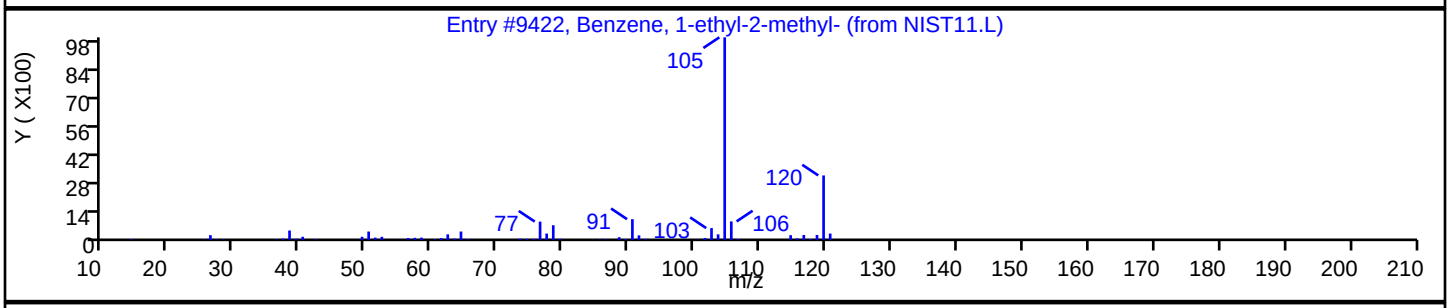
TIC @ 12.240

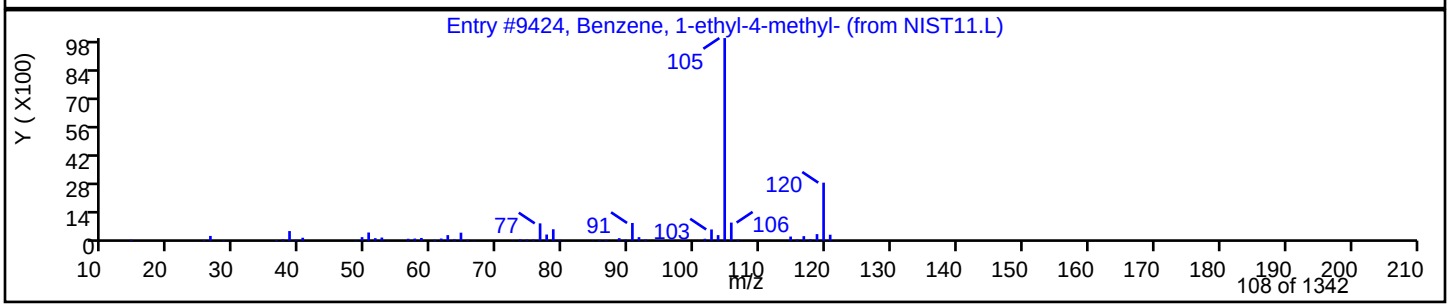
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST11	9423	C9H12	120	97
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST11	9422	C9H12	120	95
Benzene, 1-ethyl-4-methyl-	622-96-8	NIST11	9424	C9H12	120	94











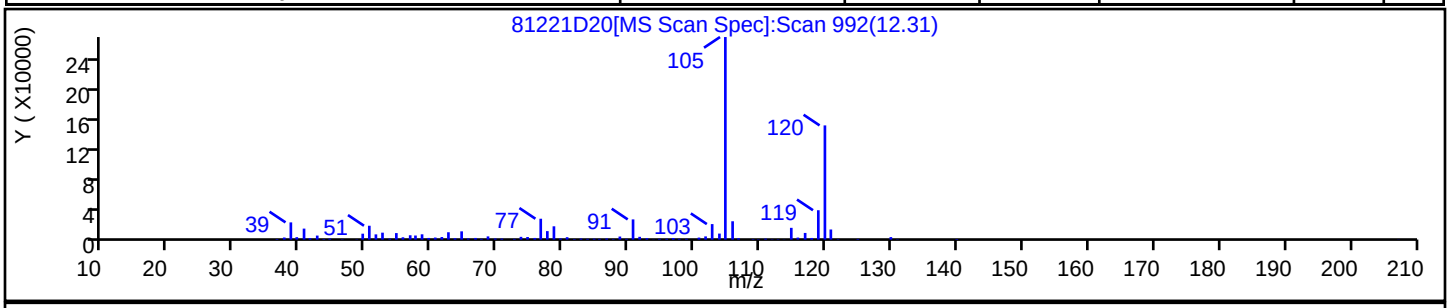
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

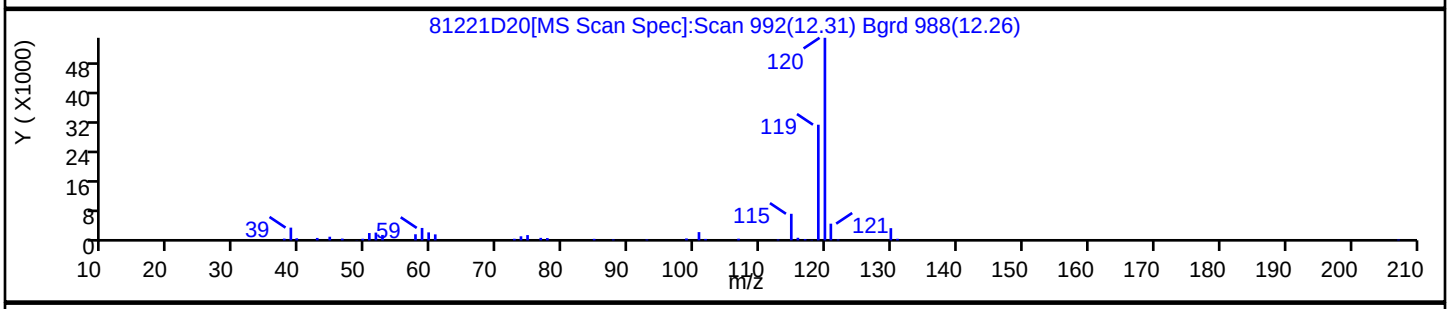
Shealy Environmental Services

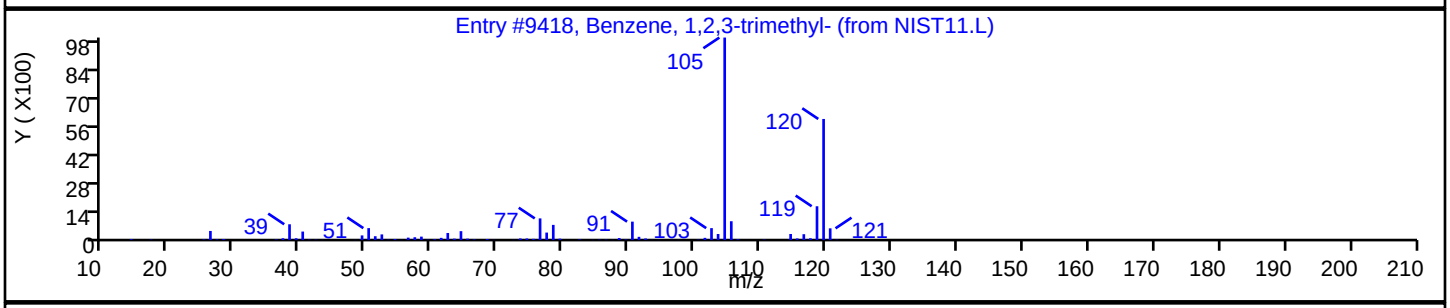
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

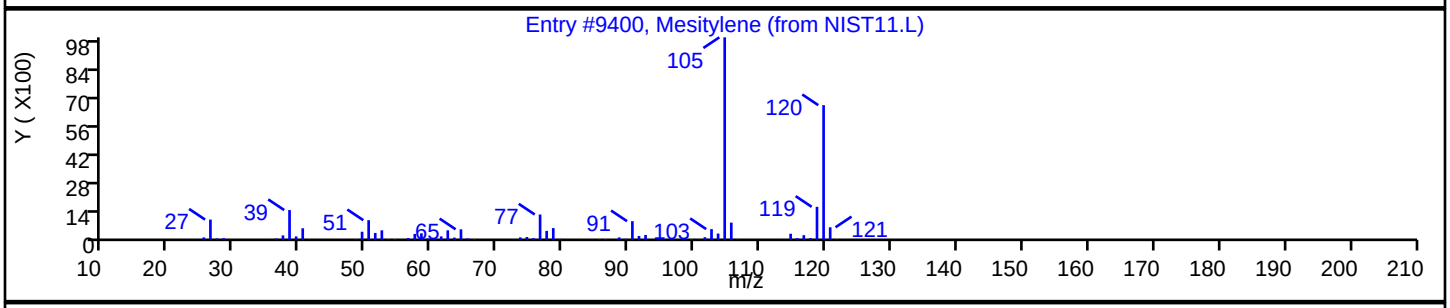
TIC @ 12.300

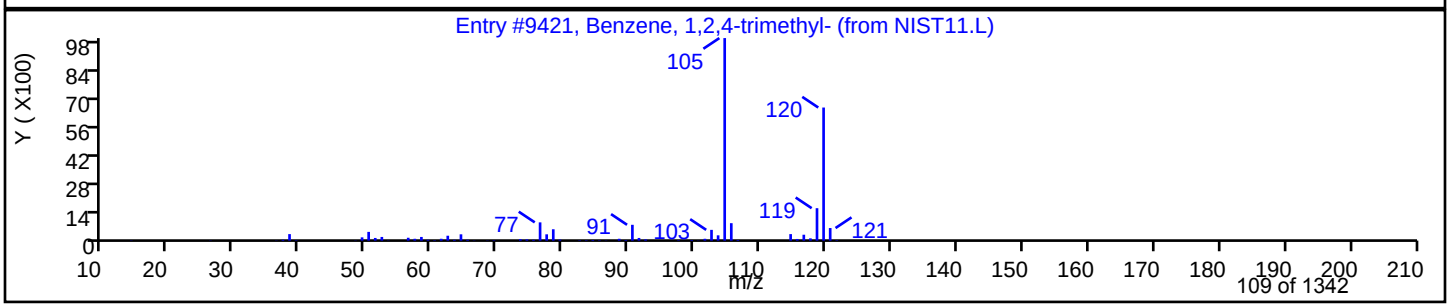
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11	9418	C9H12	120	95
Mesitylene	108-67-8	NIST11	9400	C9H12	120	95
Benzene, 1,2,4-trimethyl-	95-63-6	NIST11	9421	C9H12	120	94











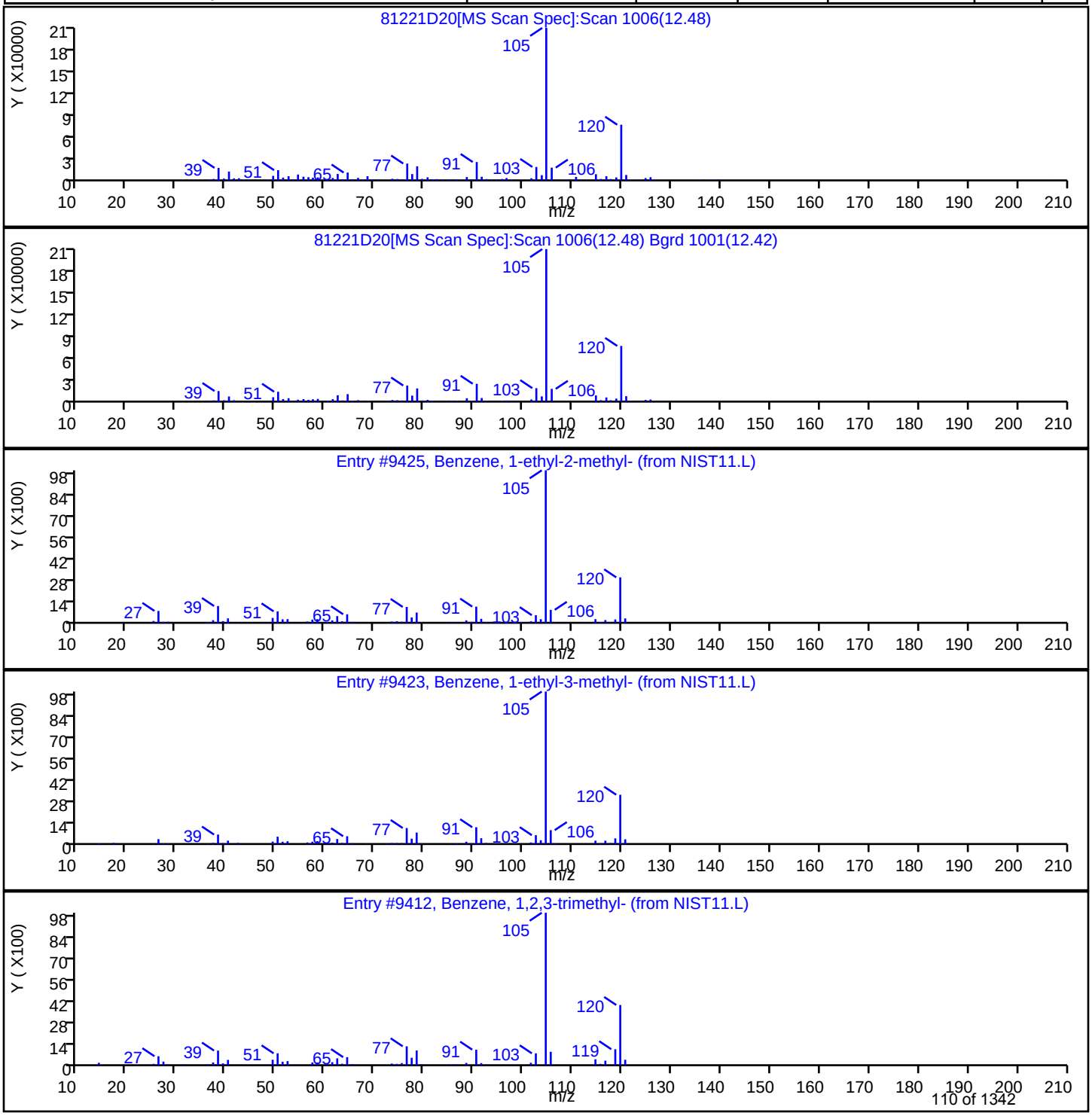
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.465

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST11	9425	C9H12	120	95
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST11	9423	C9H12	120	94
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11	9412	C9H12	120	93



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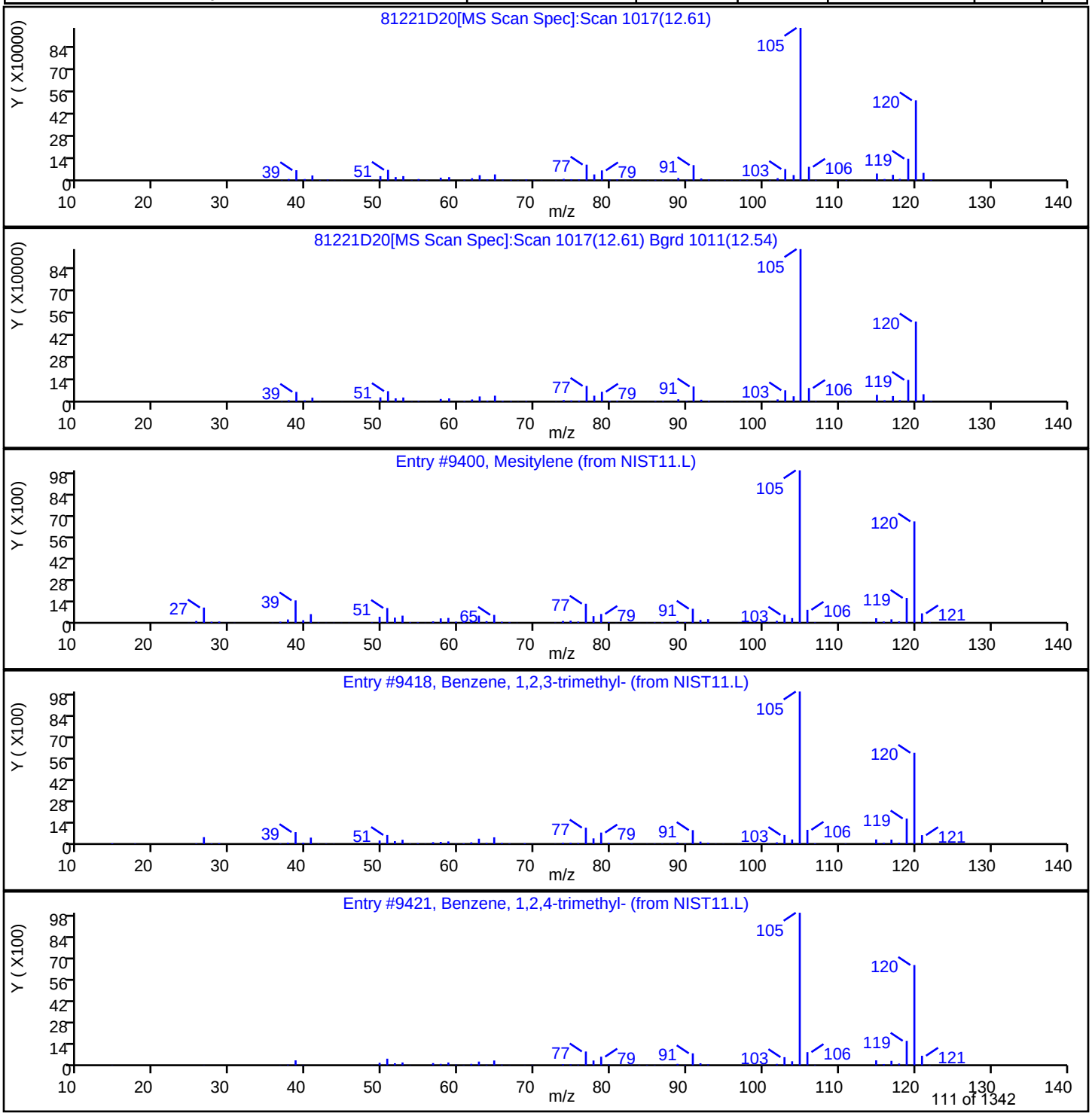
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.595

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Mesitylene	108-67-8	NIST11	9400	C9H12	120	95
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11	9418	C9H12	120	95
Benzene, 1,2,4-trimethyl-	95-63-6	NIST11	9421	C9H12	120	94



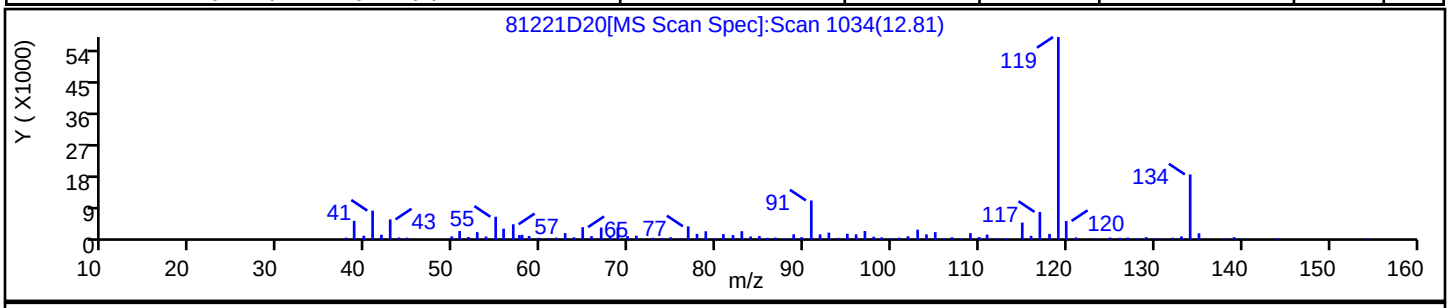
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

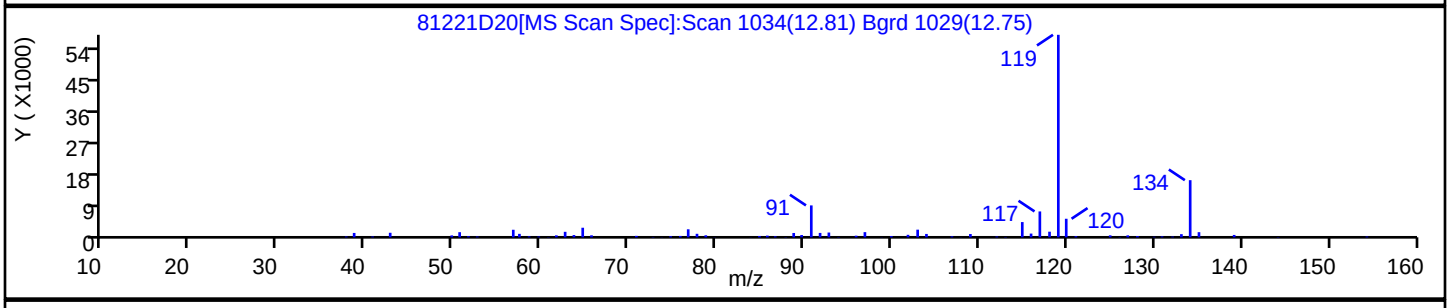
Shealy Environmental Services

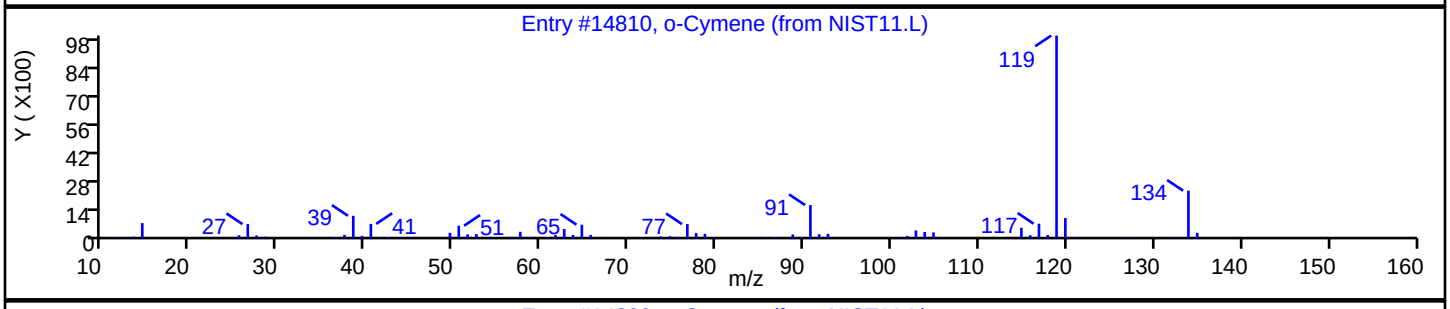
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

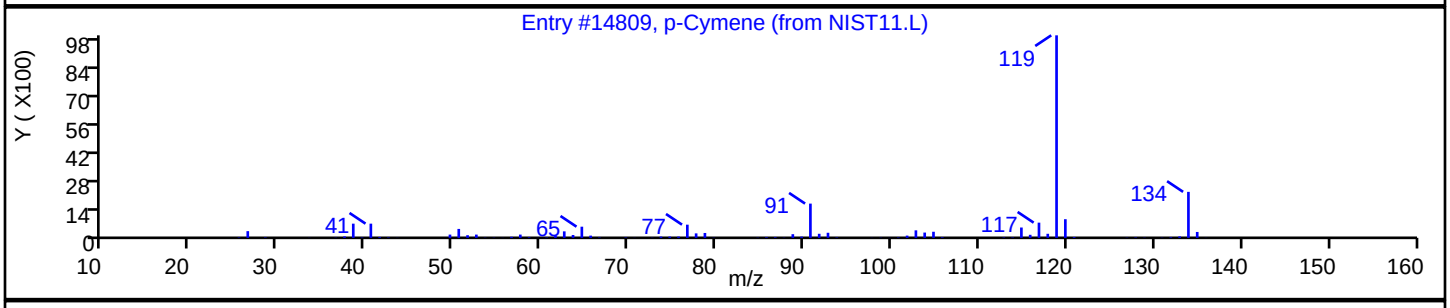
TIC @ 12.797

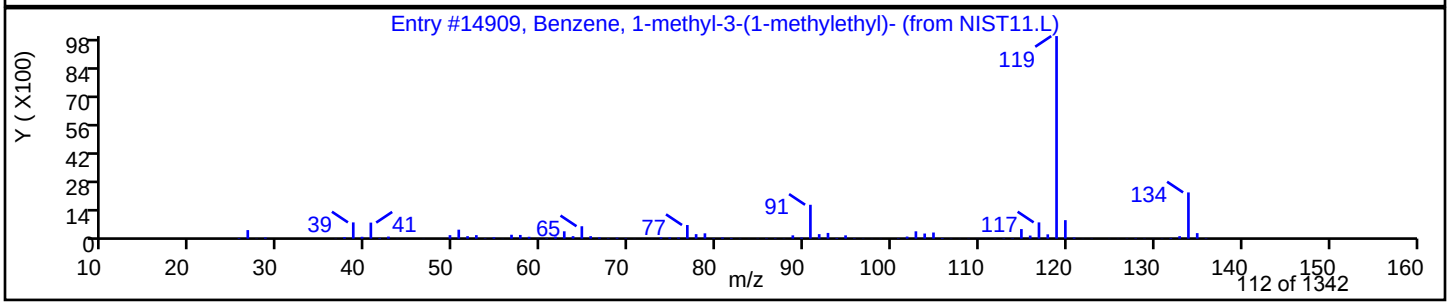
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
o-Cymene	527-84-4	NIST11	14810	C10H14	134	97
p-Cymene	99-87-6	NIST11	14809	C10H14	134	97
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST11	14909	C10H14	134	95











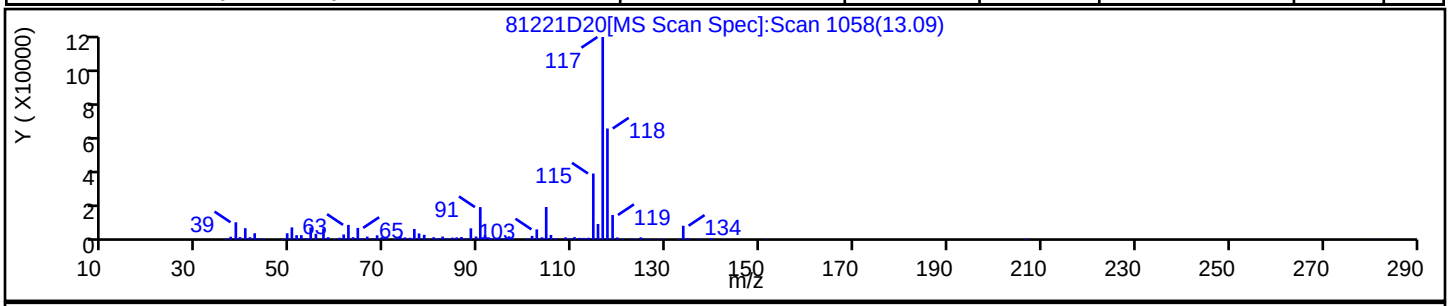
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

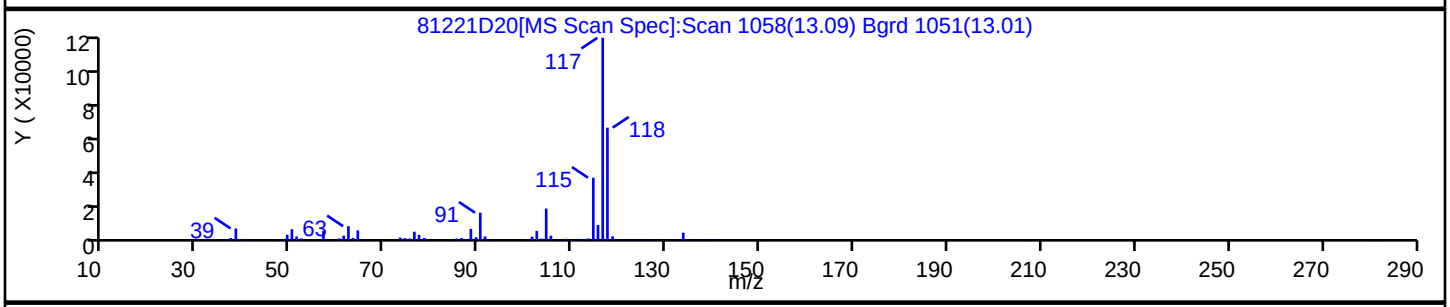
Shealy Environmental Services

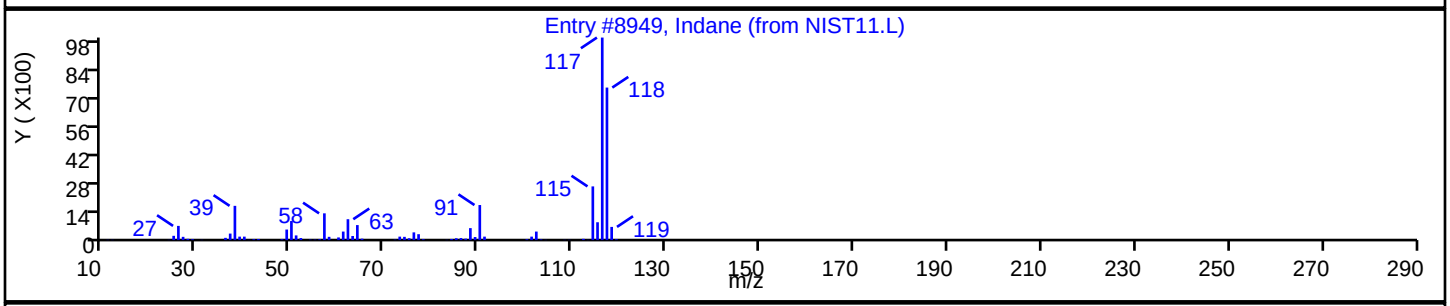
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D
Injection Date: 21-Dec-2015 20:42:30 Inst. ID: msd8.i
Client ID: F6R33 Lab ID: QL16010-003
Sample Info: 8122115D.b, QL16010-003
Purge Vol. 25 ML Dil. Factor: 1.0
Operator: ALL
Column1: DB-624 (0.25 mm) Detector: MS Scan

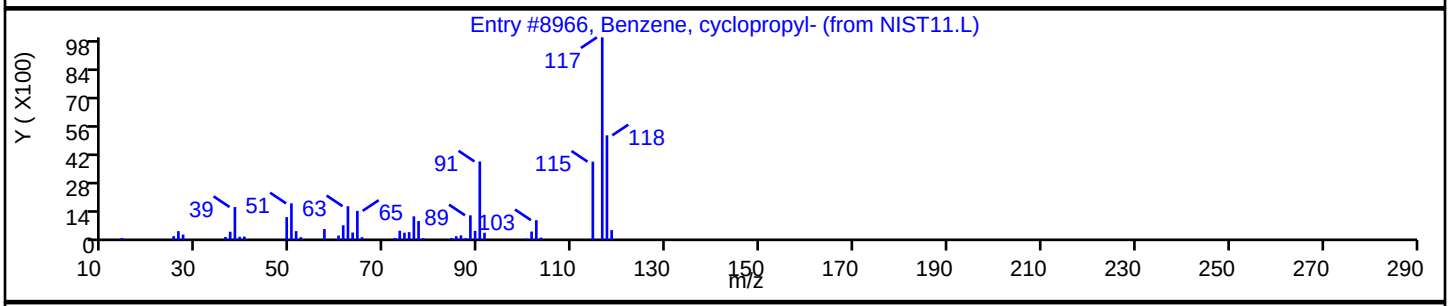
TIC @ 13.081

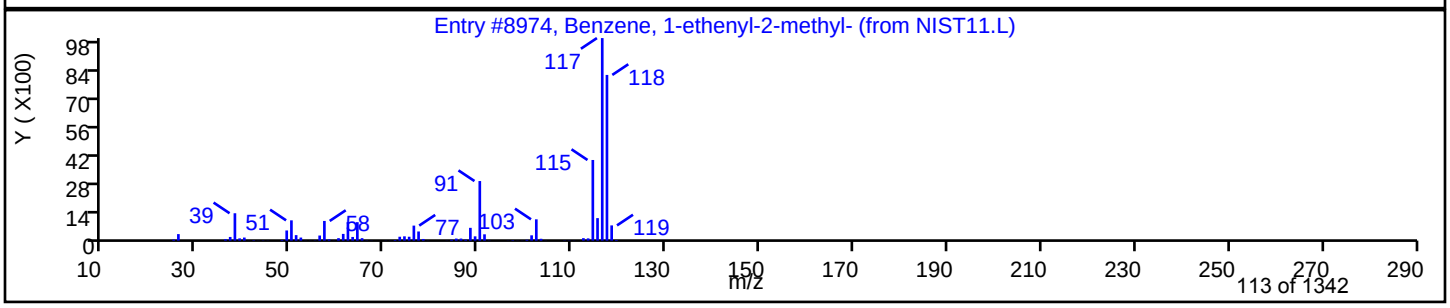
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Indane	496-11-7	NIST11	8949	C9H10	118	93
Benzene, cyclopropyl-	873-49-4	NIST11	8966	C9H10	118	92
Benzene, 1-ethenyl-2-methyl-	611-15-4	NIST11	8974	C9H10	118	86











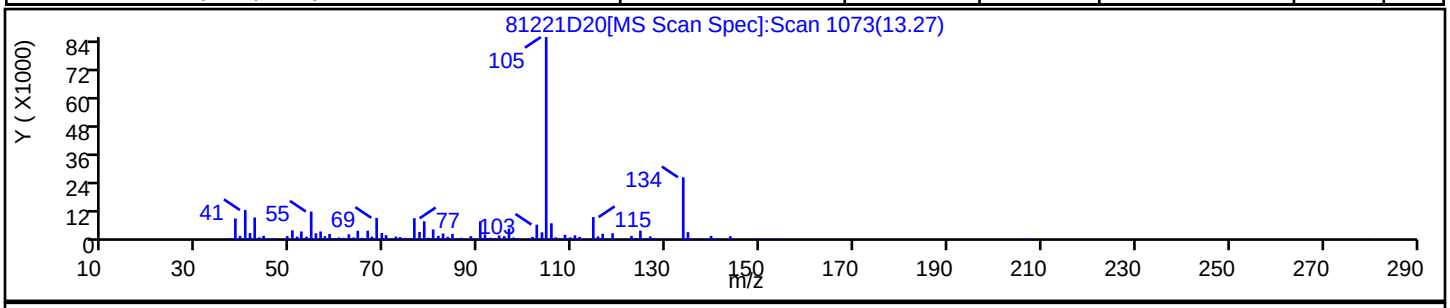
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

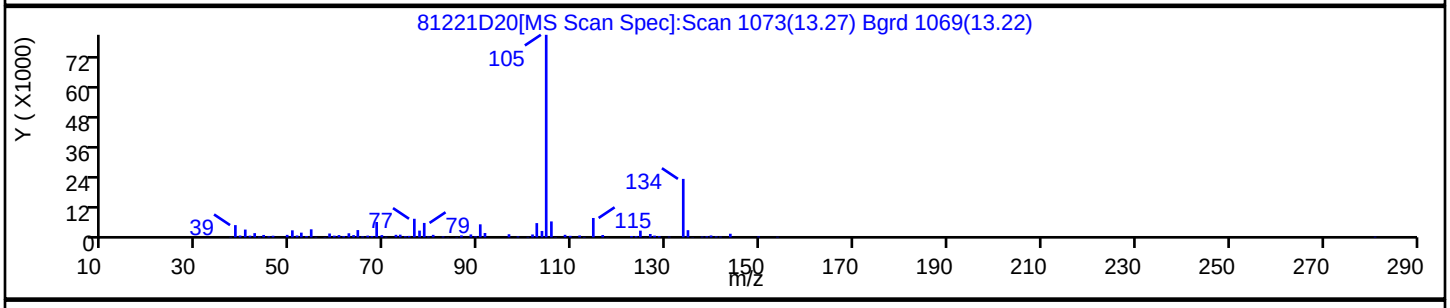
Shealy Environmental Services

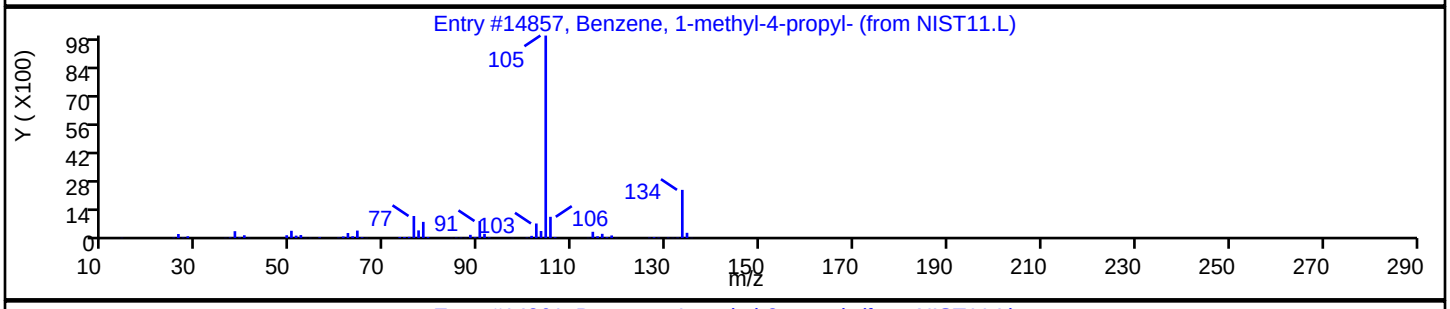
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D
Injection Date: 21-Dec-2015 20:42:30 Inst. ID: msd8.i
Client ID: F6R33 Lab ID: QL16010-003
Sample Info: 8122115D.b, QL16010-003
Purge Vol. 25 ML Dil. Factor: 1.0
Operator: ALL
Column1: DB-624 (0.25 mm) Detector: MS Scan

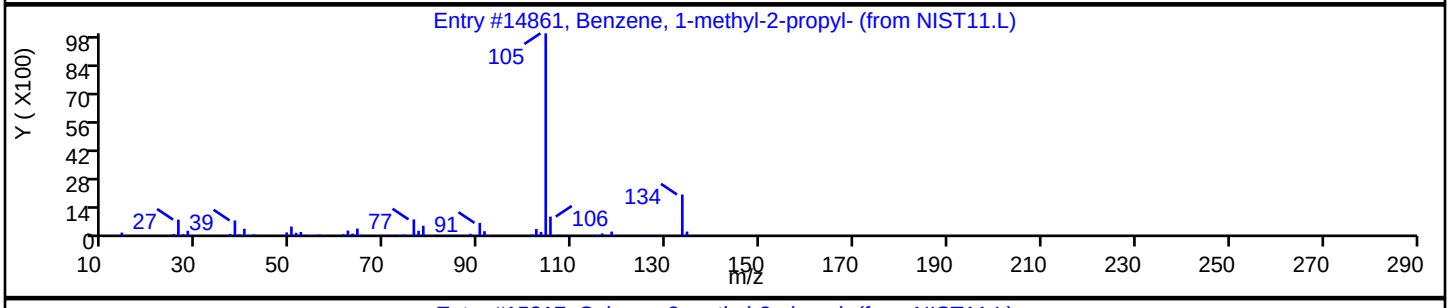
TIC @ 13.258

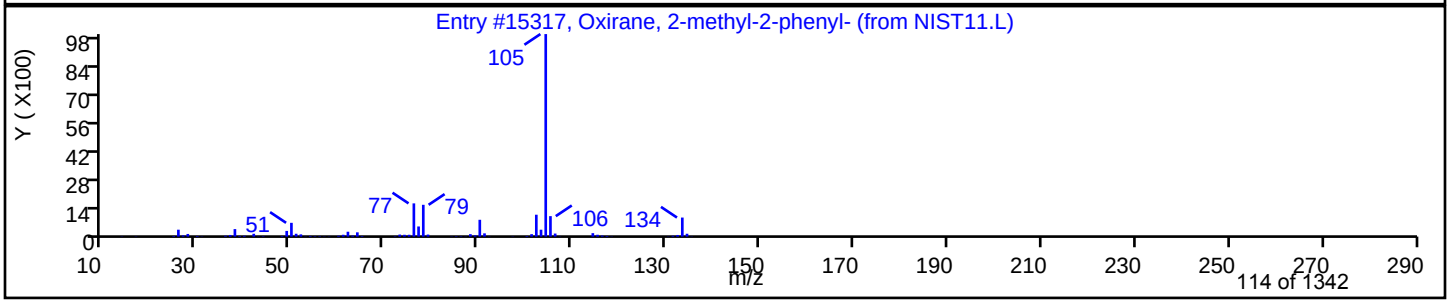
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-methyl-4-propyl-	1074-55-1	NIST11	14857	C10H14	134	95
Benzene, 1-methyl-2-propyl-	1074-17-5	NIST11	14861	C10H14	134	94
Oxirane, 2-methyl-2-phenyl-	2085-88-3	NIST11	15317	C9H10O	134	91











Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D

Injection Date: 21-Dec-2015 20:42:30 Inst. ID: msd8.i

Client ID: F6R33 Lab ID: QL16010-003

Sample Info: 8122115D.b, QL16010-003

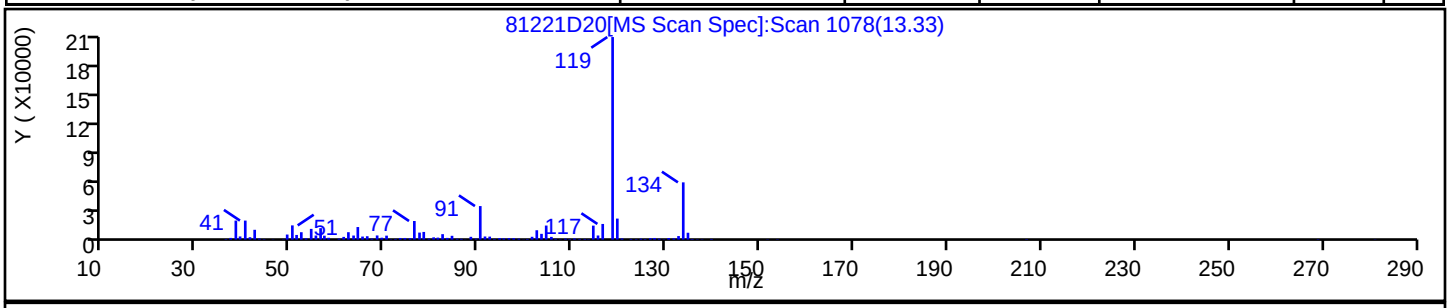
Purge Vol. 25 ML Dil. Factor: 1.0

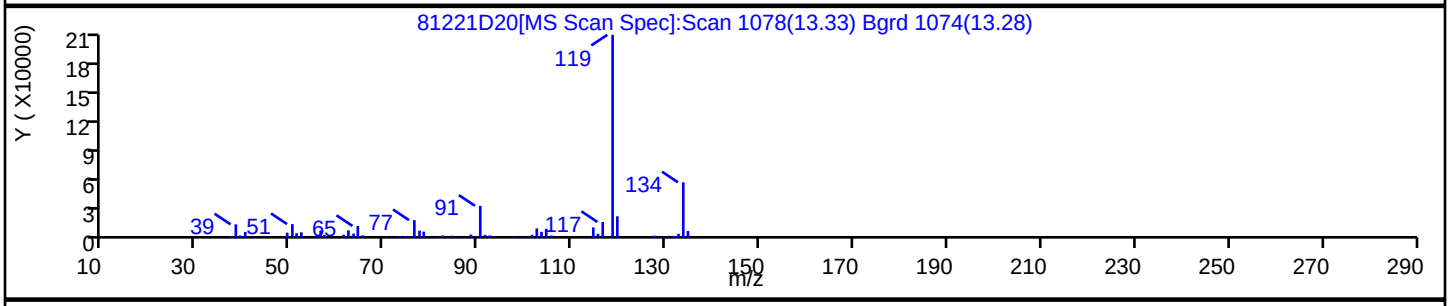
Operator: ALL

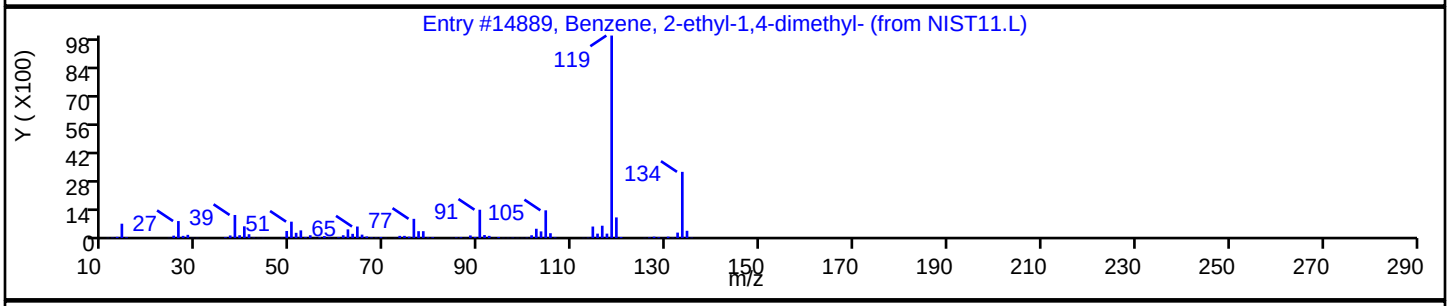
Column1: DB-624 (0.25 mm) Detector: MS Scan

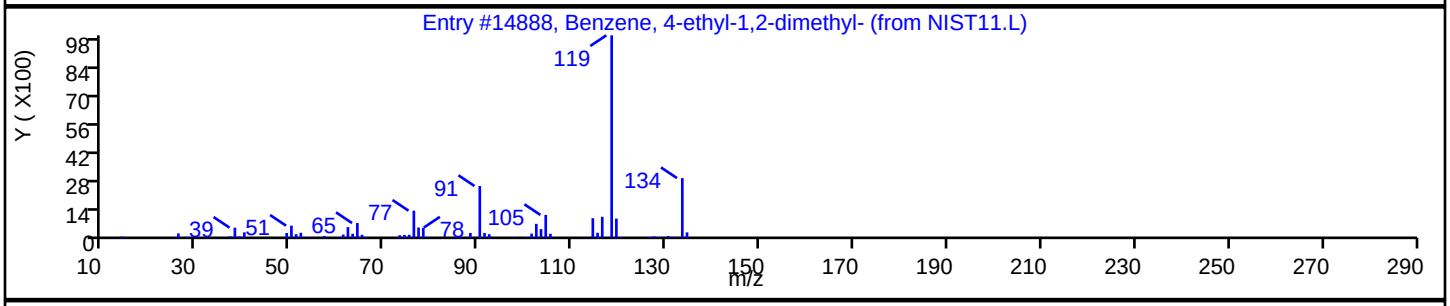
TIC @ 13.317

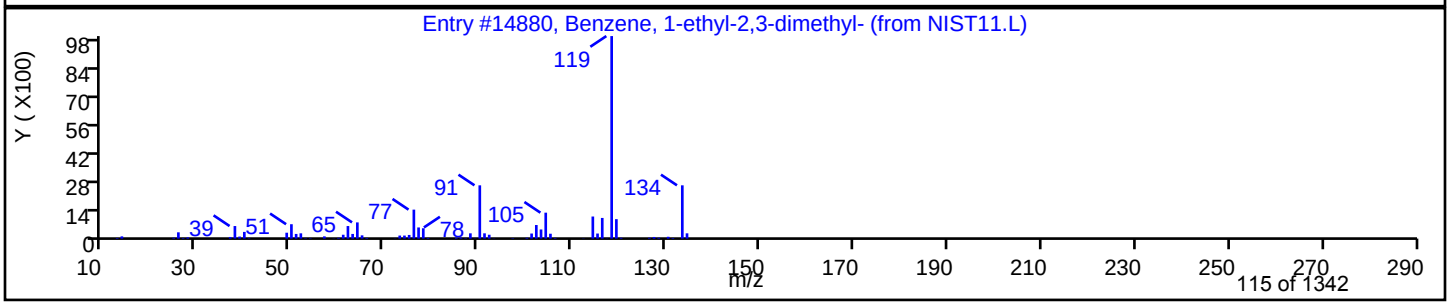
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NIST11	14889	C10H14	134	97
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST11	14888	C10H14	134	96
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST11	14880	C10H14	134	96











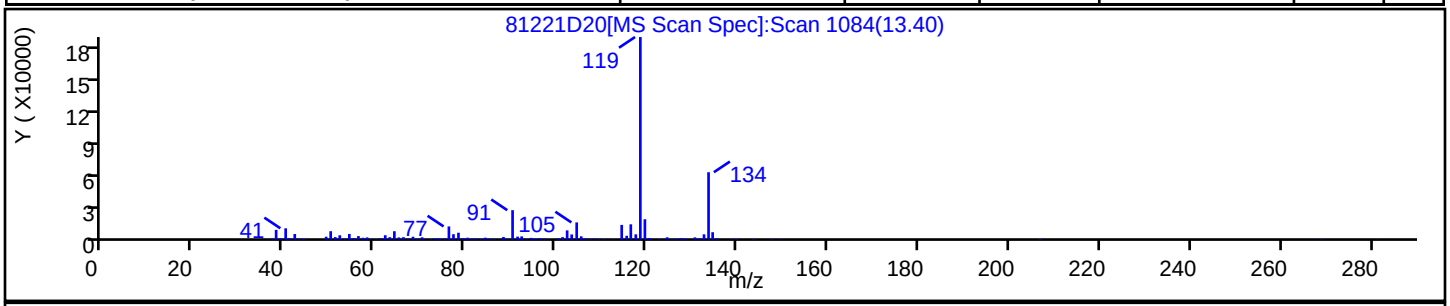
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

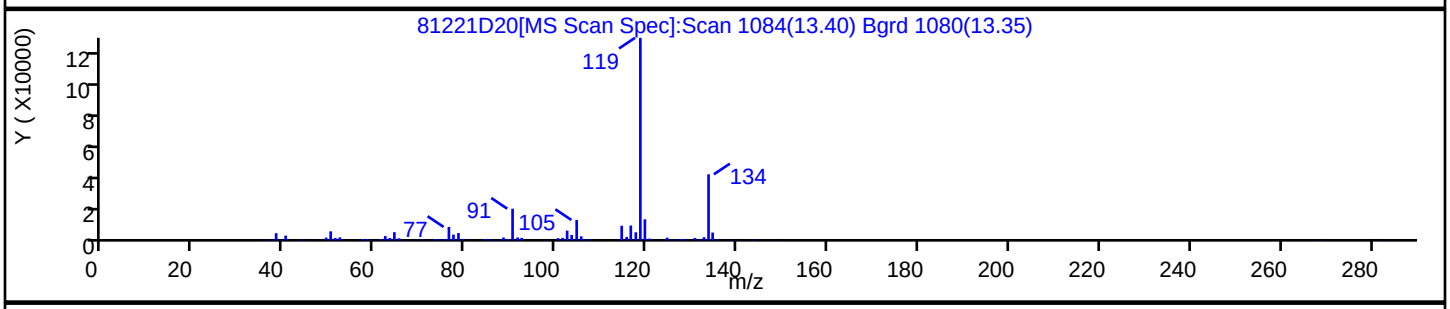
Shealy Environmental Services

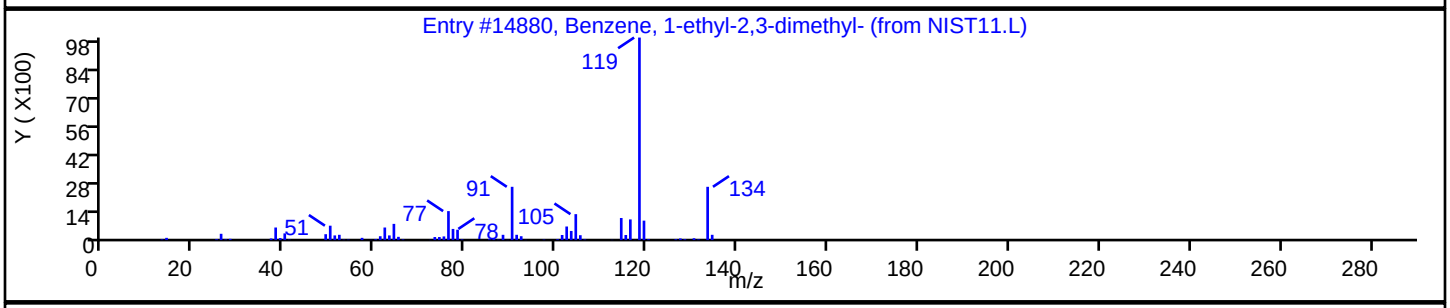
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

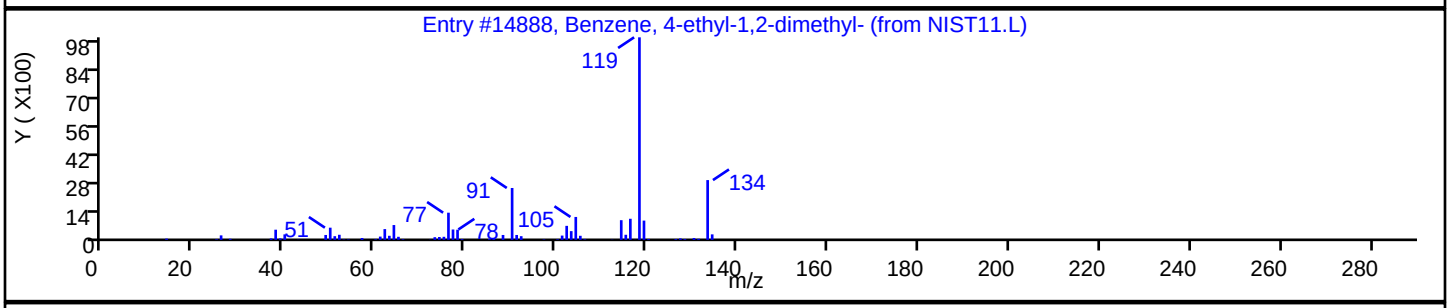
TIC @ 13.388

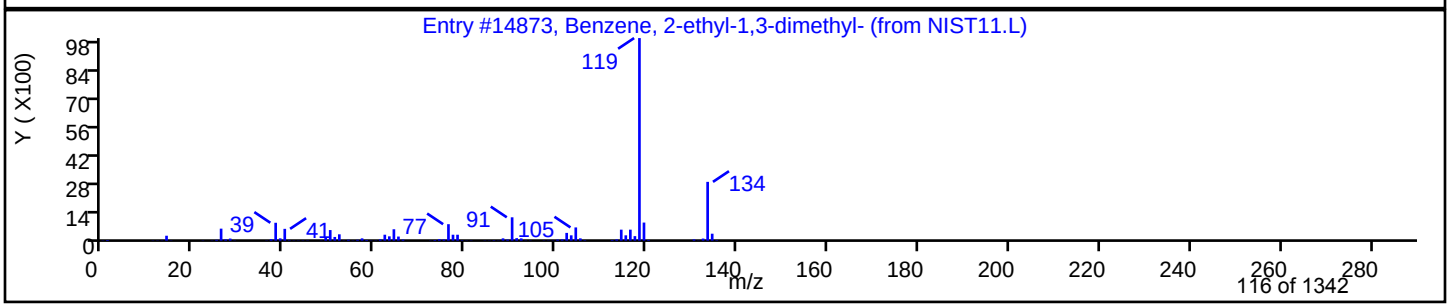
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST11	14880	C10H14	134	96
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST11	14888	C10H14	134	96
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NIST11	14873	C10H14	134	94











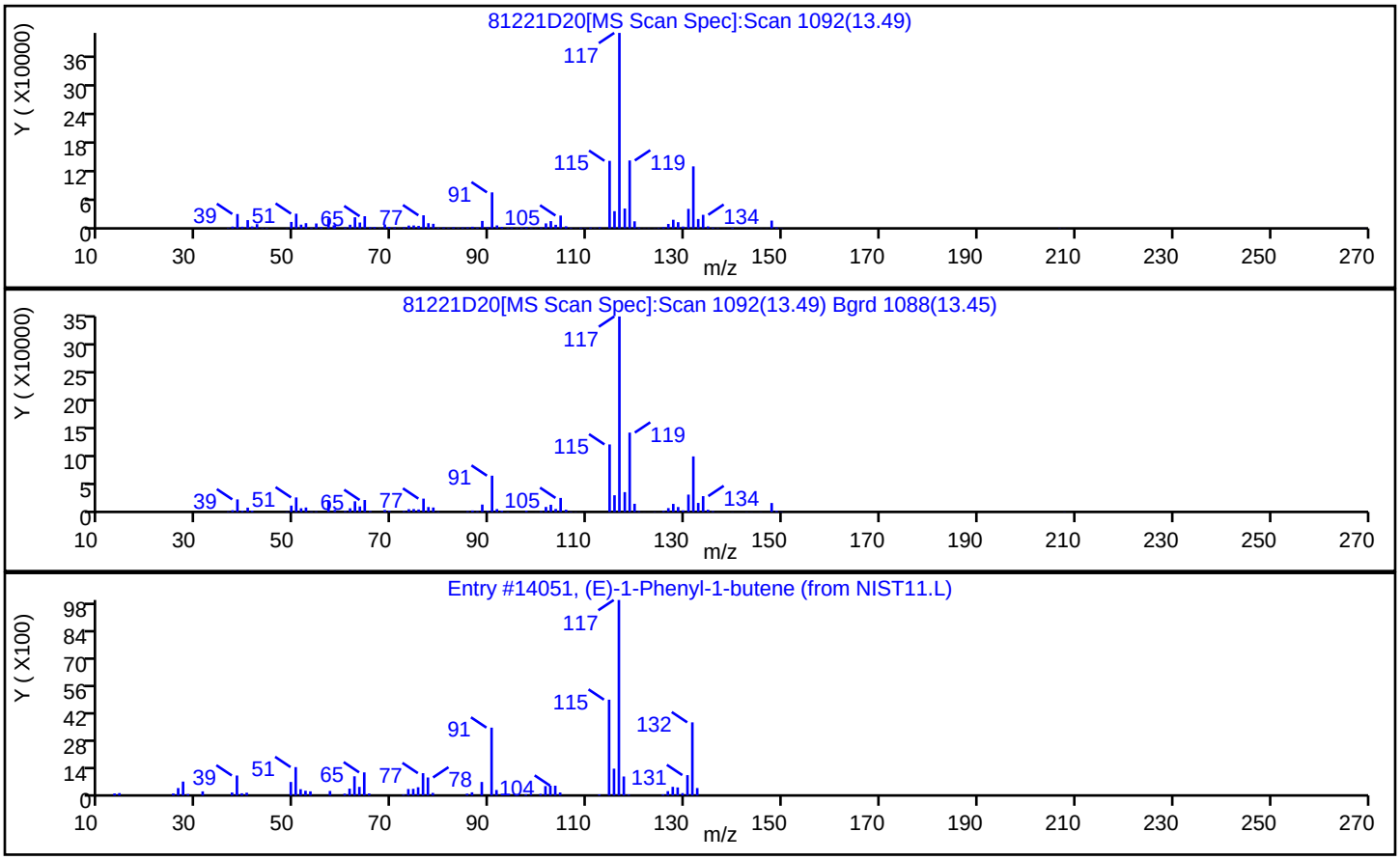
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D
Injection Date: 21-Dec-2015 20:42:30 Inst. ID: msd8.i
Client ID: F6R33 Lab ID: QL16010-003
Sample Info: 8122115D.b, QL16010-003
Purge Vol. 25 ML Dil. Factor: 1.0
Operator: ALL
Column1: DB-624 (0.25 mm) Detector: MS Scan

TIC @ 13.483

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
(E)-1-Phenyl-1-butene	1005-64-7	NIST11	14051	C10H12	132	90



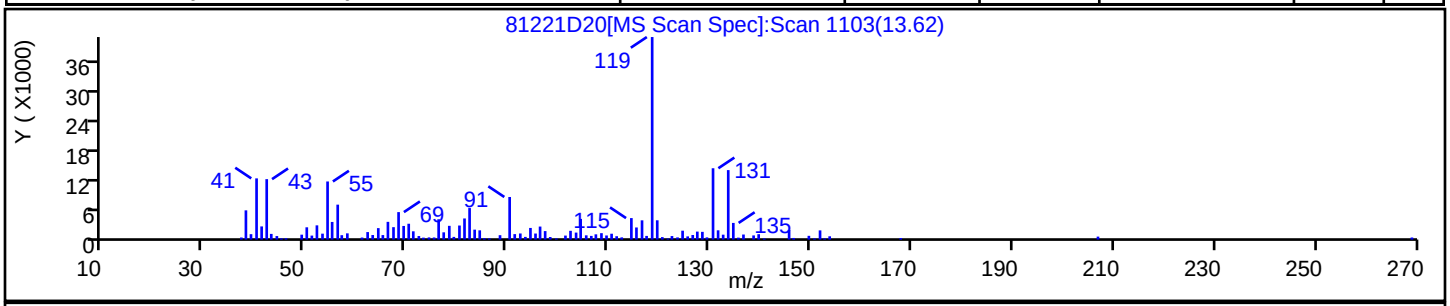
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

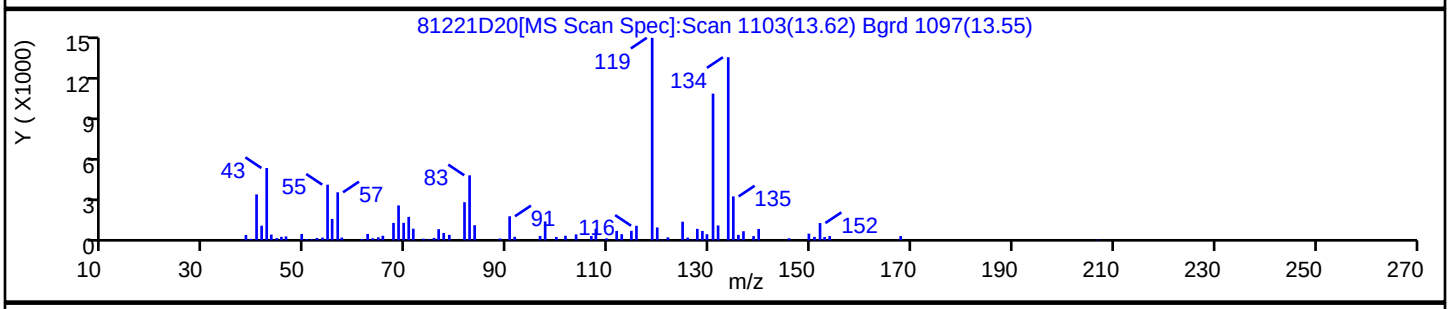
Shealy Environmental Services

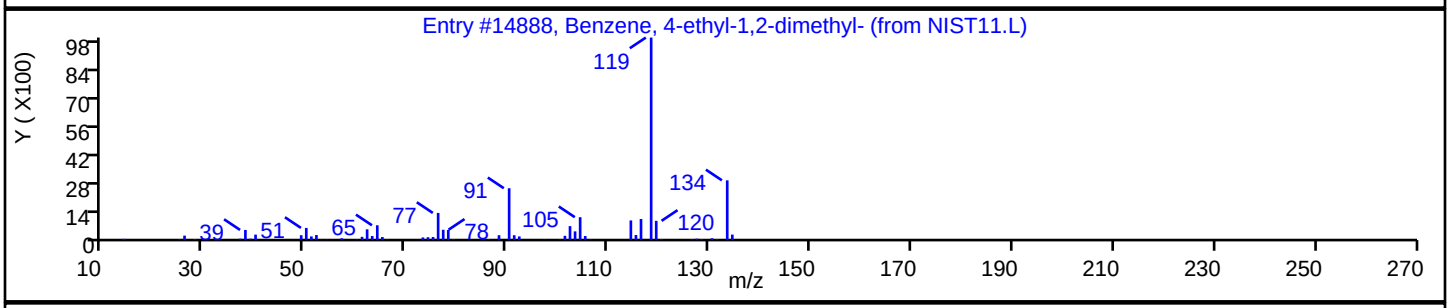
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D
Injection Date: 21-Dec-2015 20:42:30 Inst. ID: msd8.i
Client ID: F6R33 Lab ID: QL16010-003
Sample Info: 8122115D.b, QL16010-003
Purge Vol. 25 ML Dil. Factor: 1.0
Operator: ALL
Column1: DB-624 (0.25 mm) Detector: MS Scan

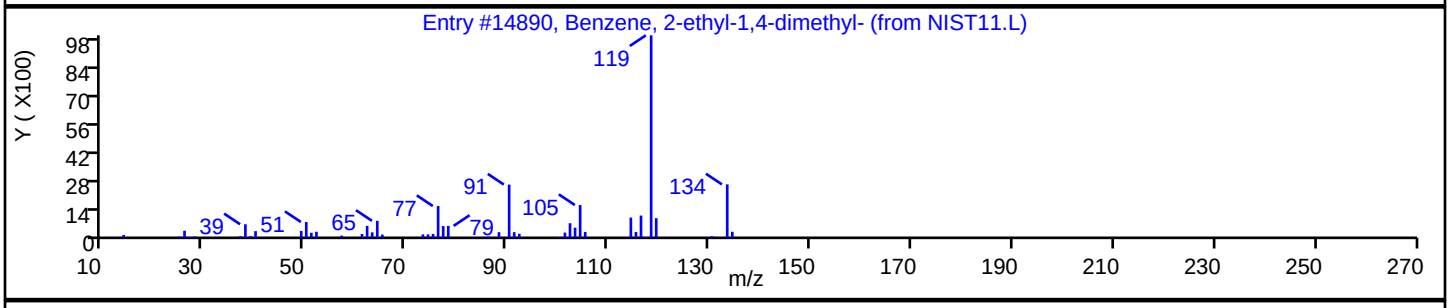
TIC @ 13.613

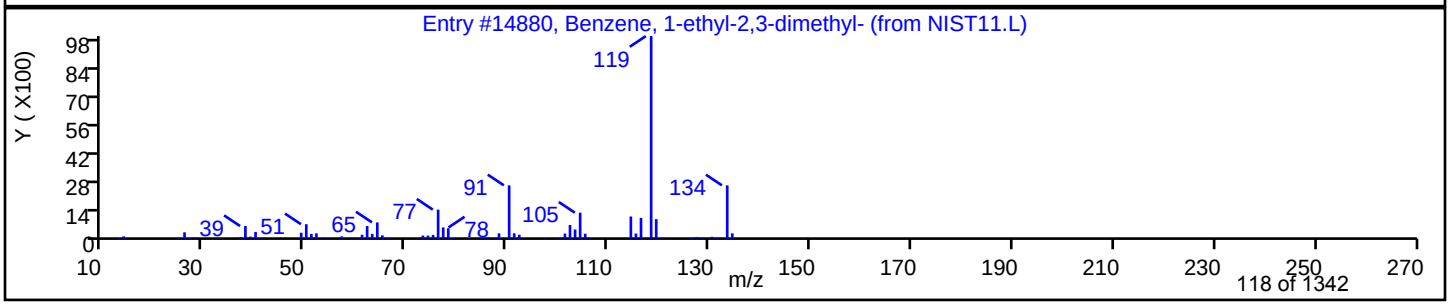
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST11	14888	C10H14	134	95
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NIST11	14890	C10H14	134	95
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST11	14880	C10H14	134	95











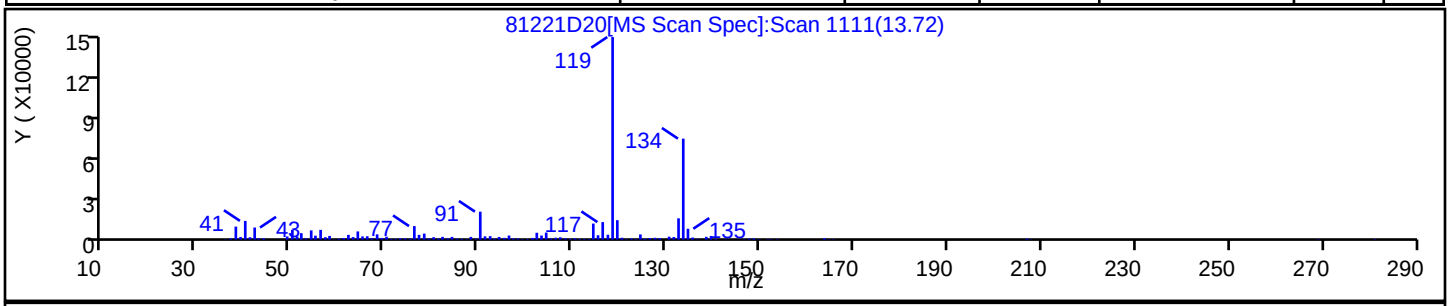
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

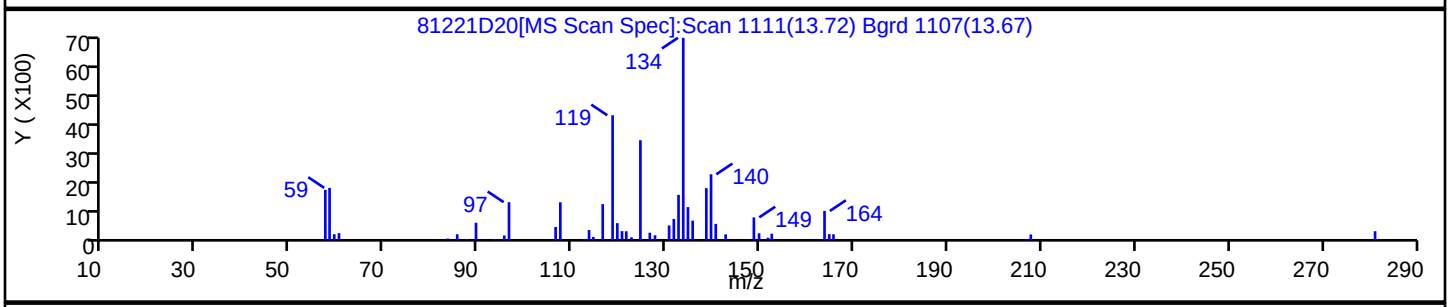
Shealy Environmental Services

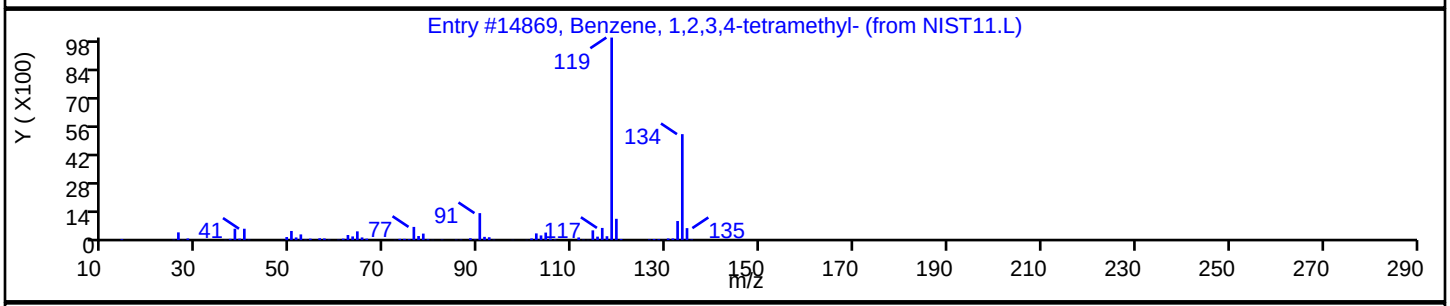
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

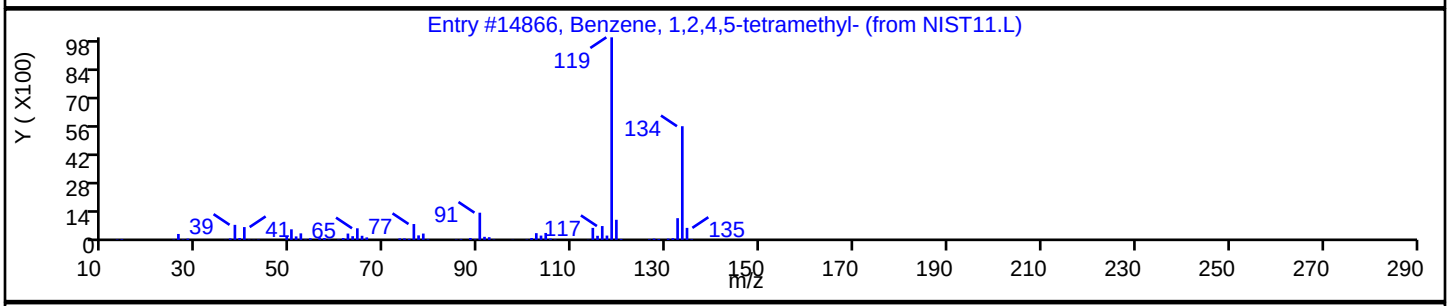
TIC @ 13.708

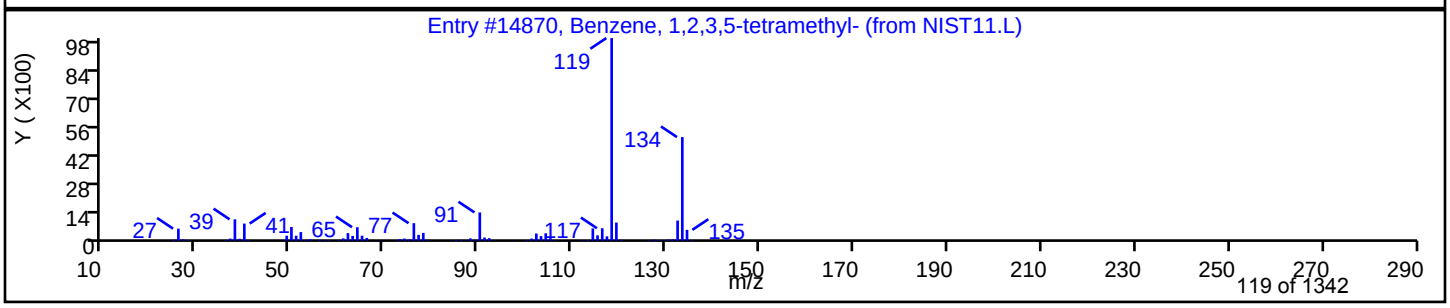
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST11	14869	C10H14	134	97
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST11	14866	C10H14	134	97
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NIST11	14870	C10H14	134	95











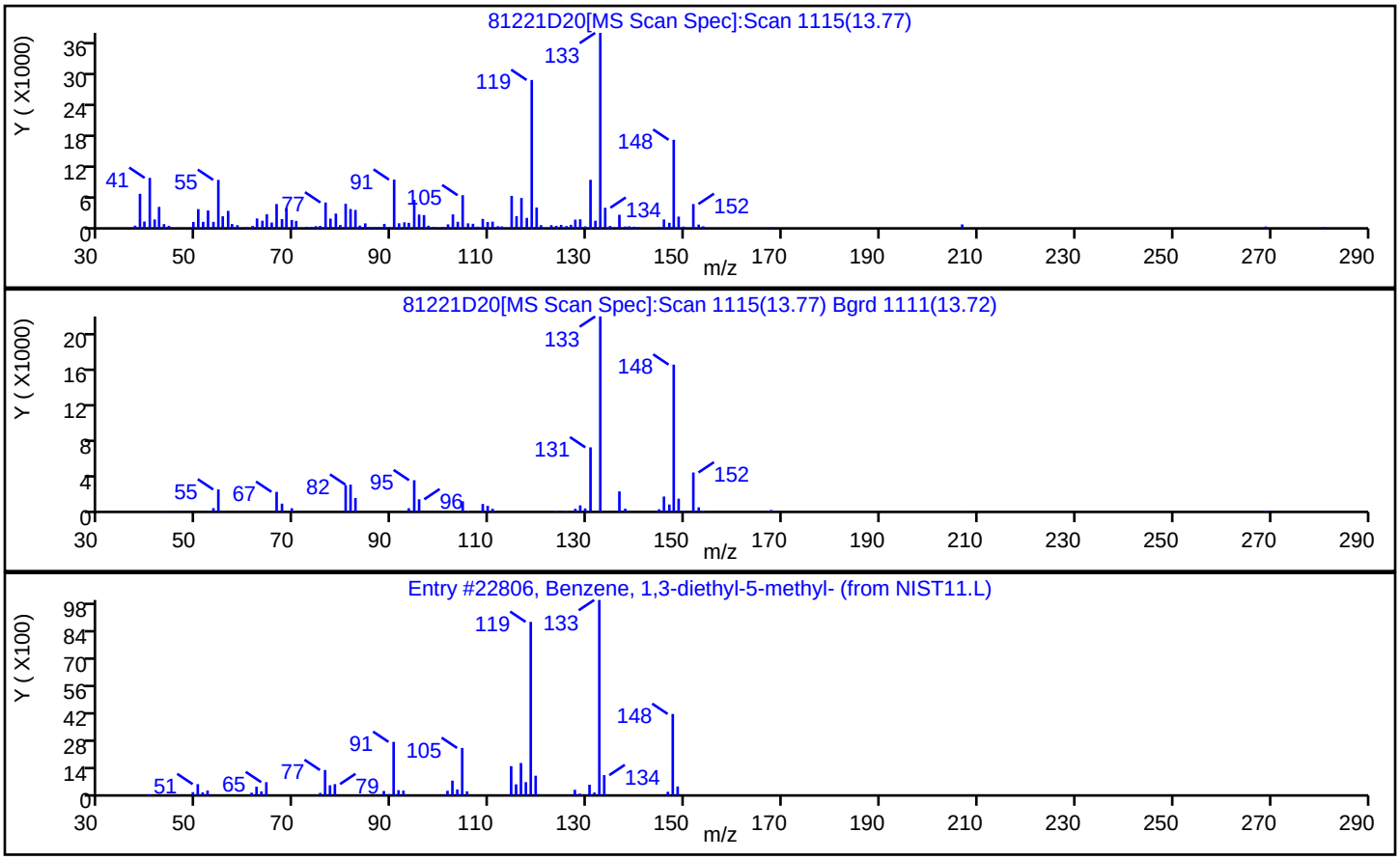
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.755

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,3-diethyl-5-methyl-	2050-24-0	NIST11	22806	C11H16	148	98



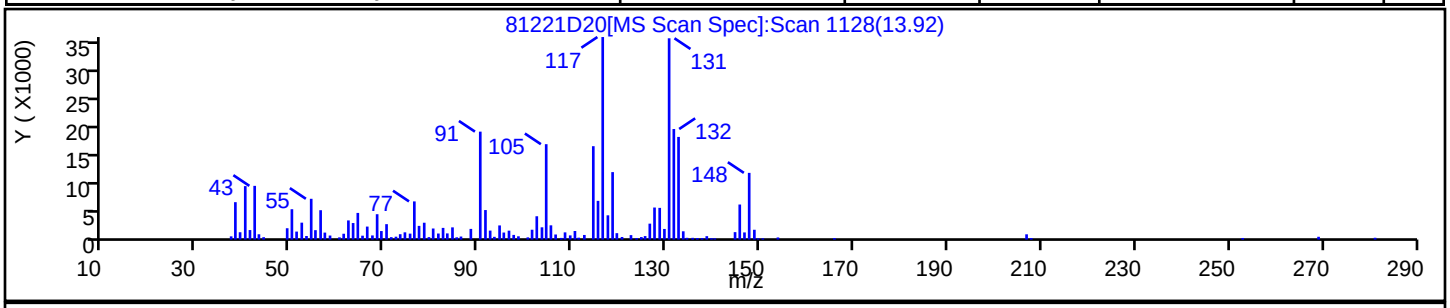
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

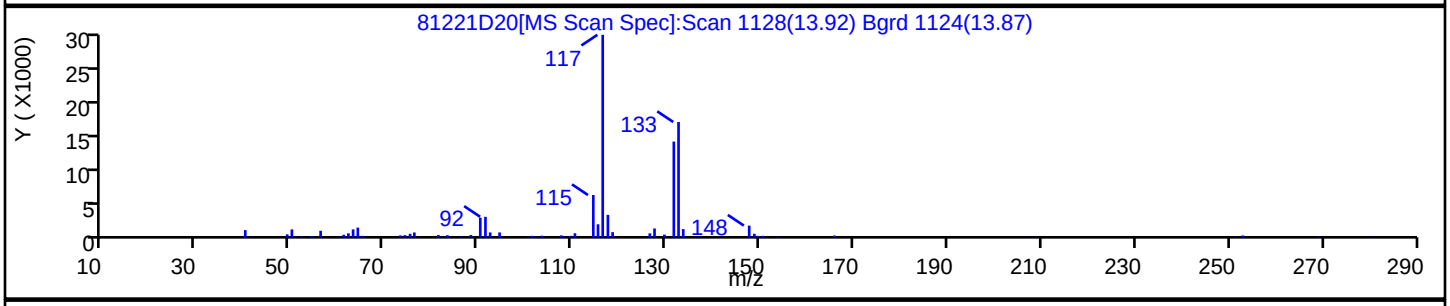
Shealy Environmental Services

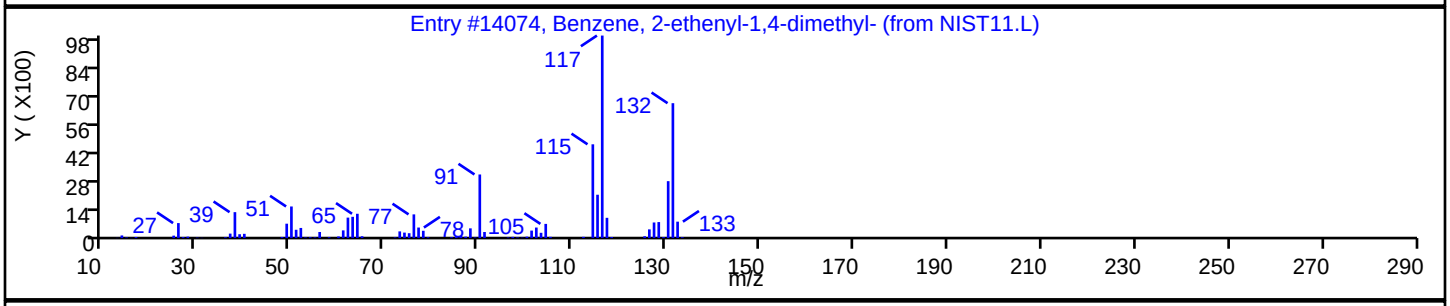
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D
Injection Date: 21-Dec-2015 20:42:30 Inst. ID: msd8.i
Client ID: F6R33 Lab ID: QL16010-003
Sample Info: 8122115D.b, QL16010-003
Purge Vol. 25 ML Dil. Factor: 1.0
Operator: ALL
Column1: DB-624 (0.25 mm) Detector: MS Scan

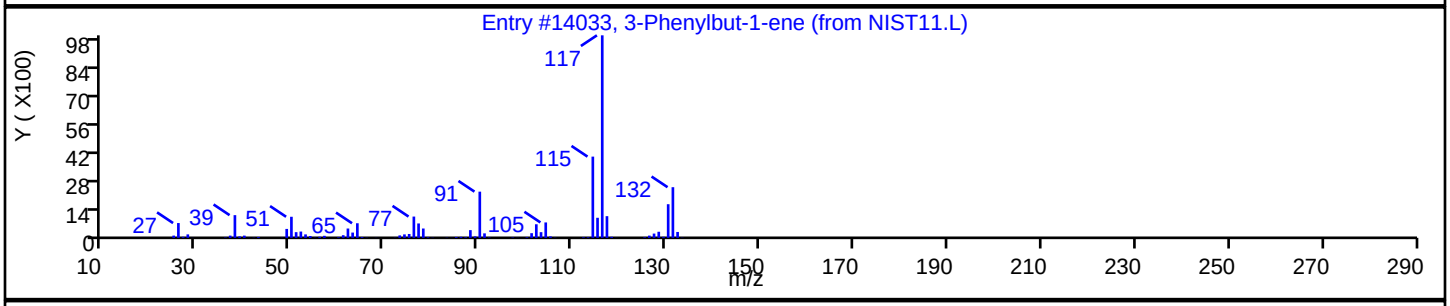
TIC @ 13.909

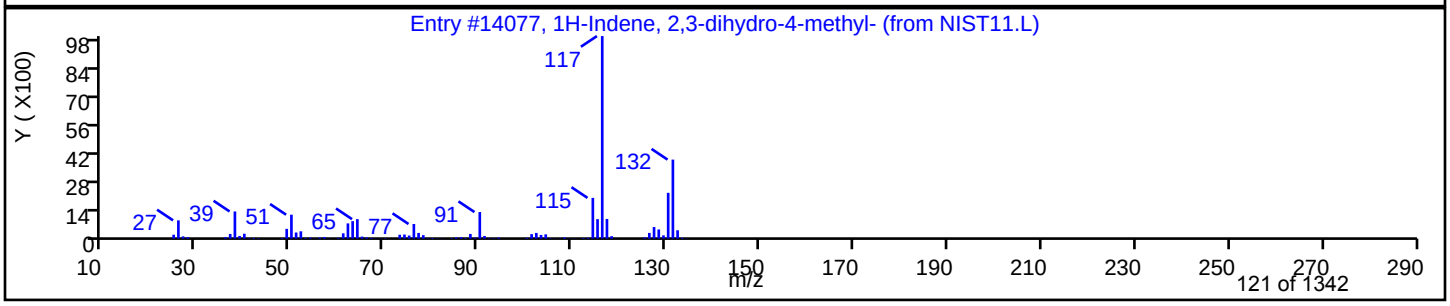
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 2-ethenyl-1,4-dimethyl-	2039-89-6	NIST11	14074	C10H12	132	91
3-Phenylbut-1-ene	934-10-1	NIST11	14033	C10H12	132	90
1H-Indene, 2,3-dihydro-4-methyl-	824-22-6	NIST11	14077	C10H12	132	87











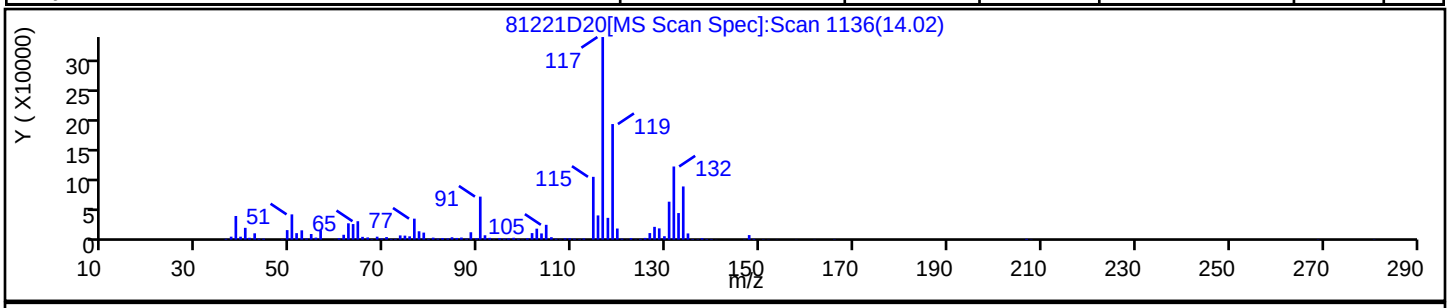
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

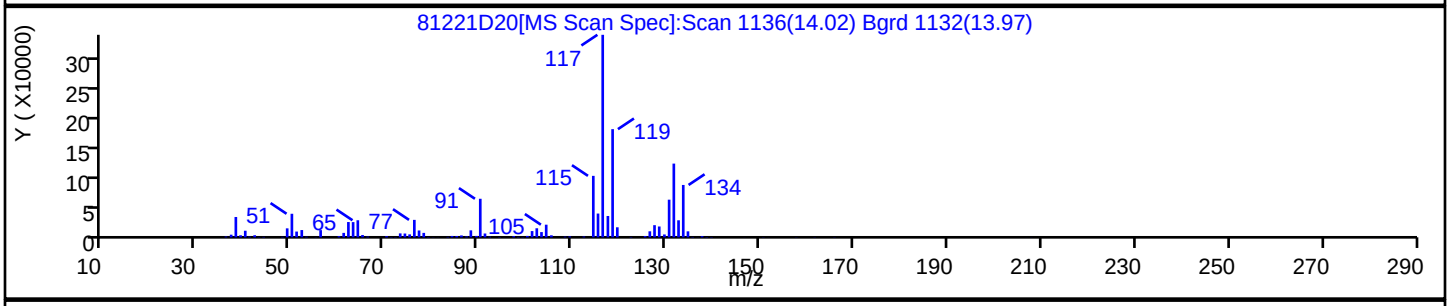
Shealy Environmental Services

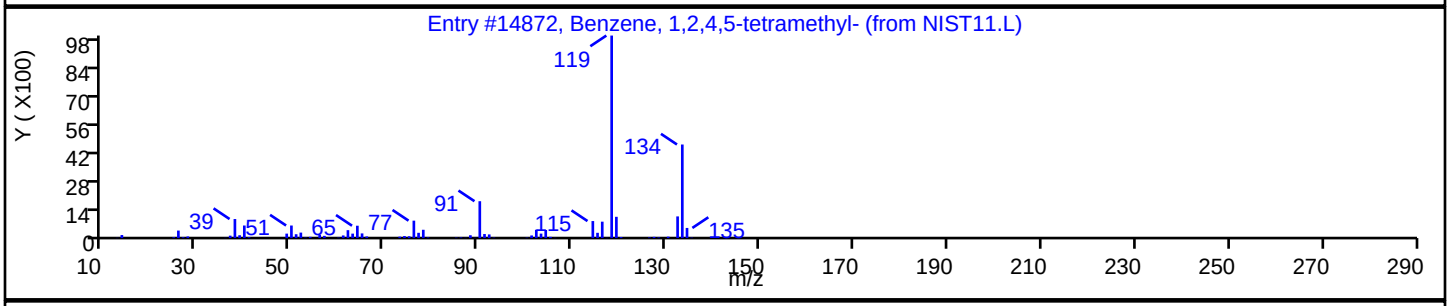
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

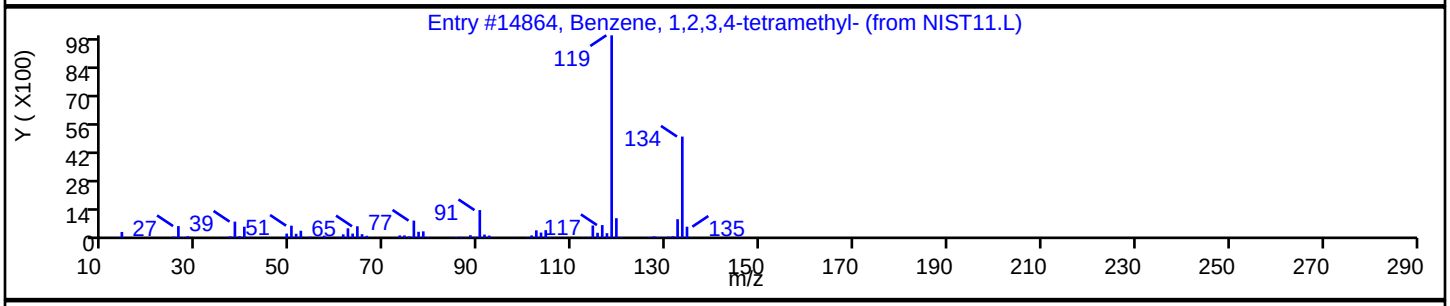
TIC @ 14.004

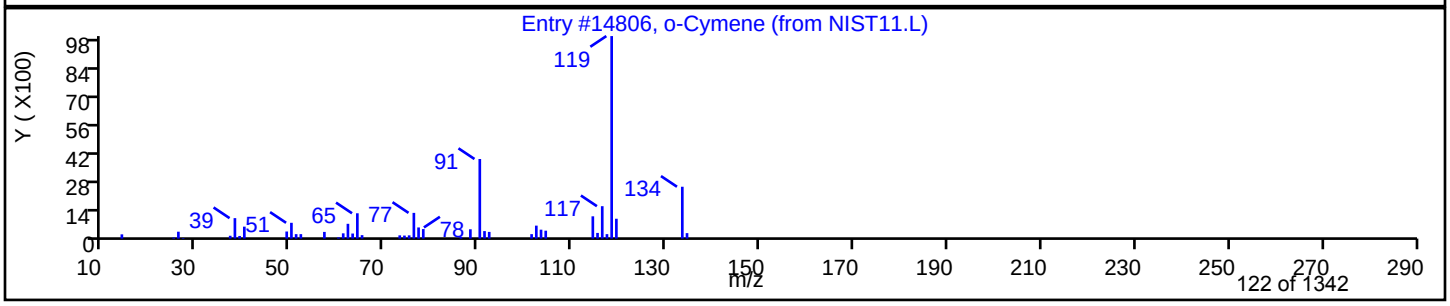
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST11	14872	C10H14	134	97
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST11	14864	C10H14	134	94
o-Cymene	527-84-4	NIST11	14806	C10H14	134	93











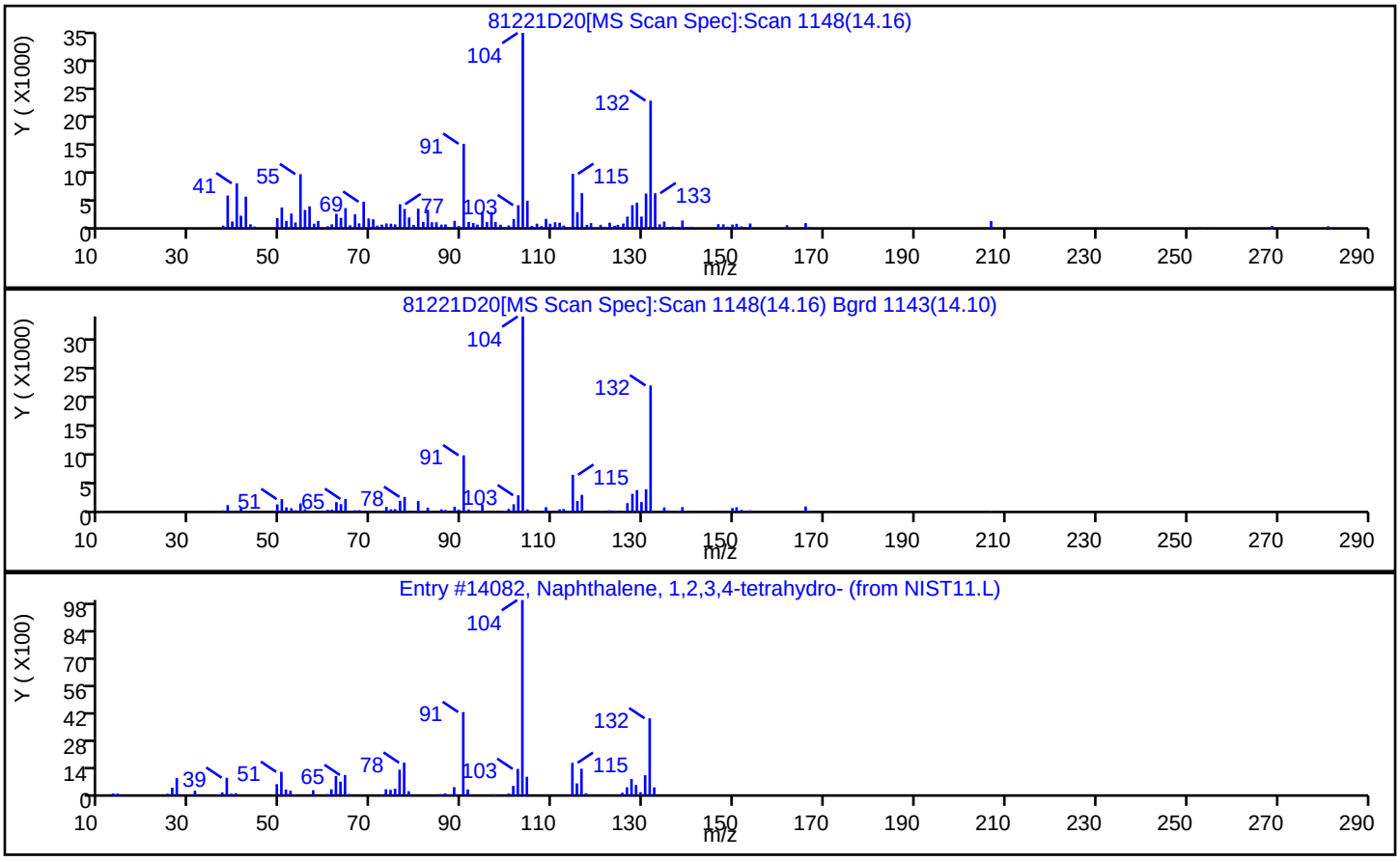
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.146

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,2,3,4-tetrahydro-	119-64-2	NIST11	14082	C10H12	132	96



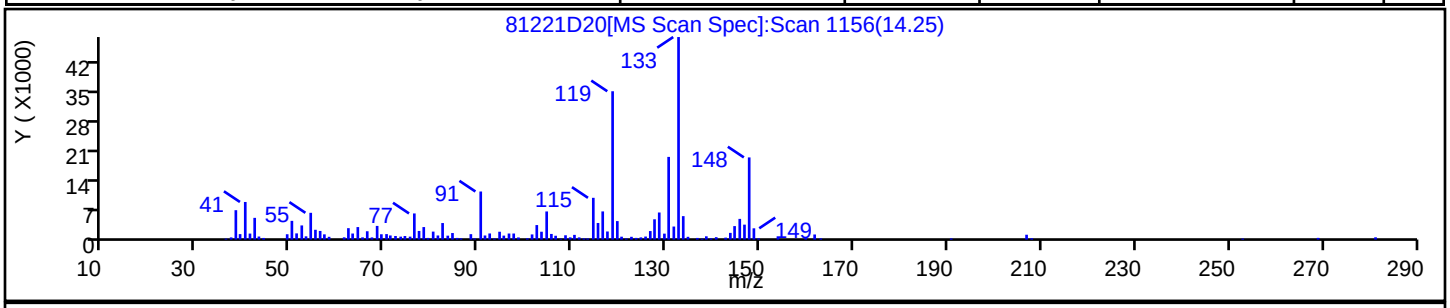
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

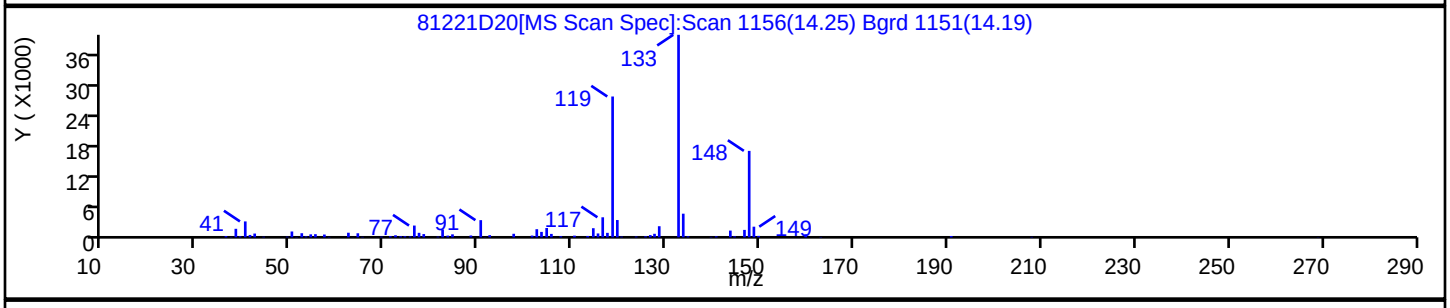
Shealy Environmental Services

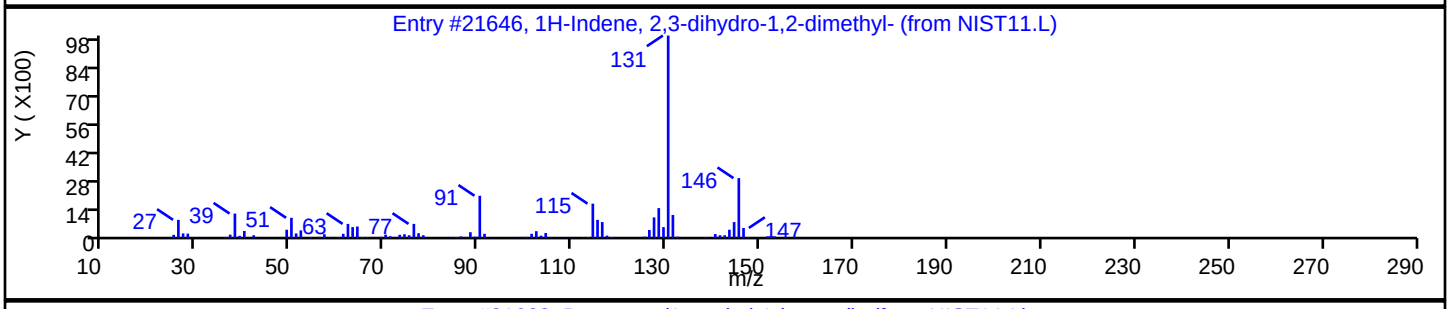
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

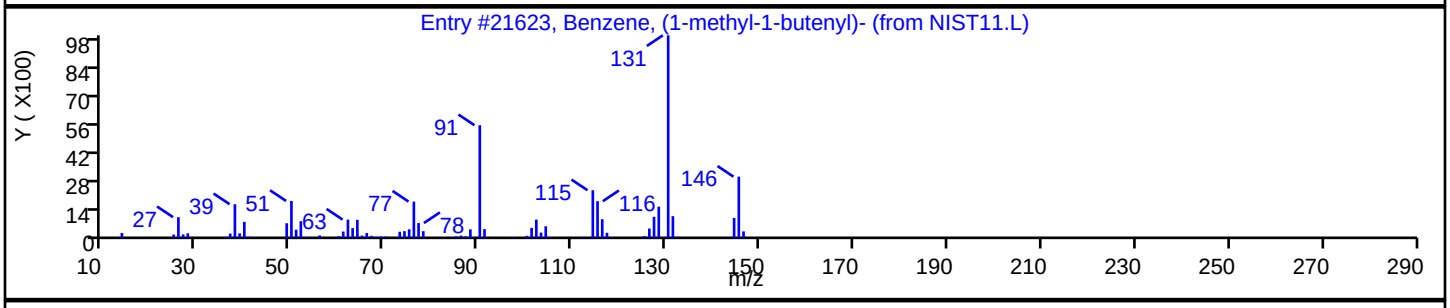
TIC @ 14.240

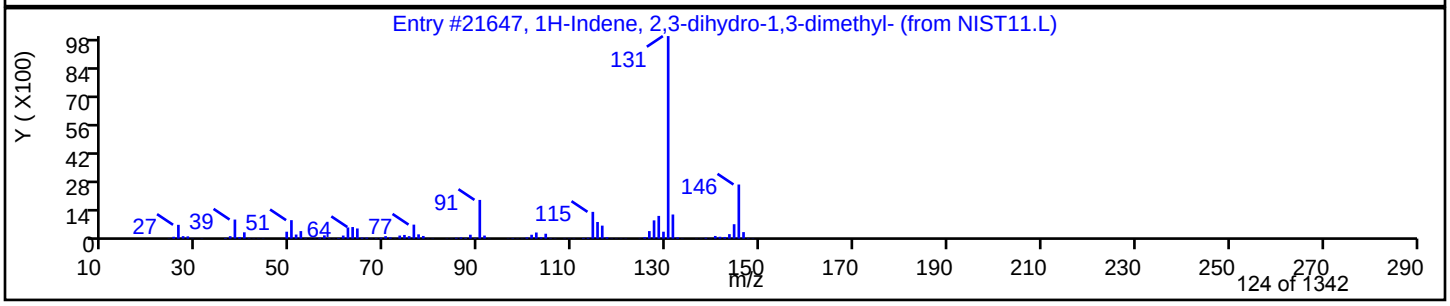
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1H-Indene, 2,3-dihydro-1,2-dimethyl-	17057-82-8	NIST11	21646	C11H14	146	96
Benzene, (1-methyl-1-butenyl)-	53172-84-2	NIST11	21623	C11H14	146	93
1H-Indene, 2,3-dihydro-1,3-dimethyl-	4175-53-5	NIST11	21647	C11H14	146	92











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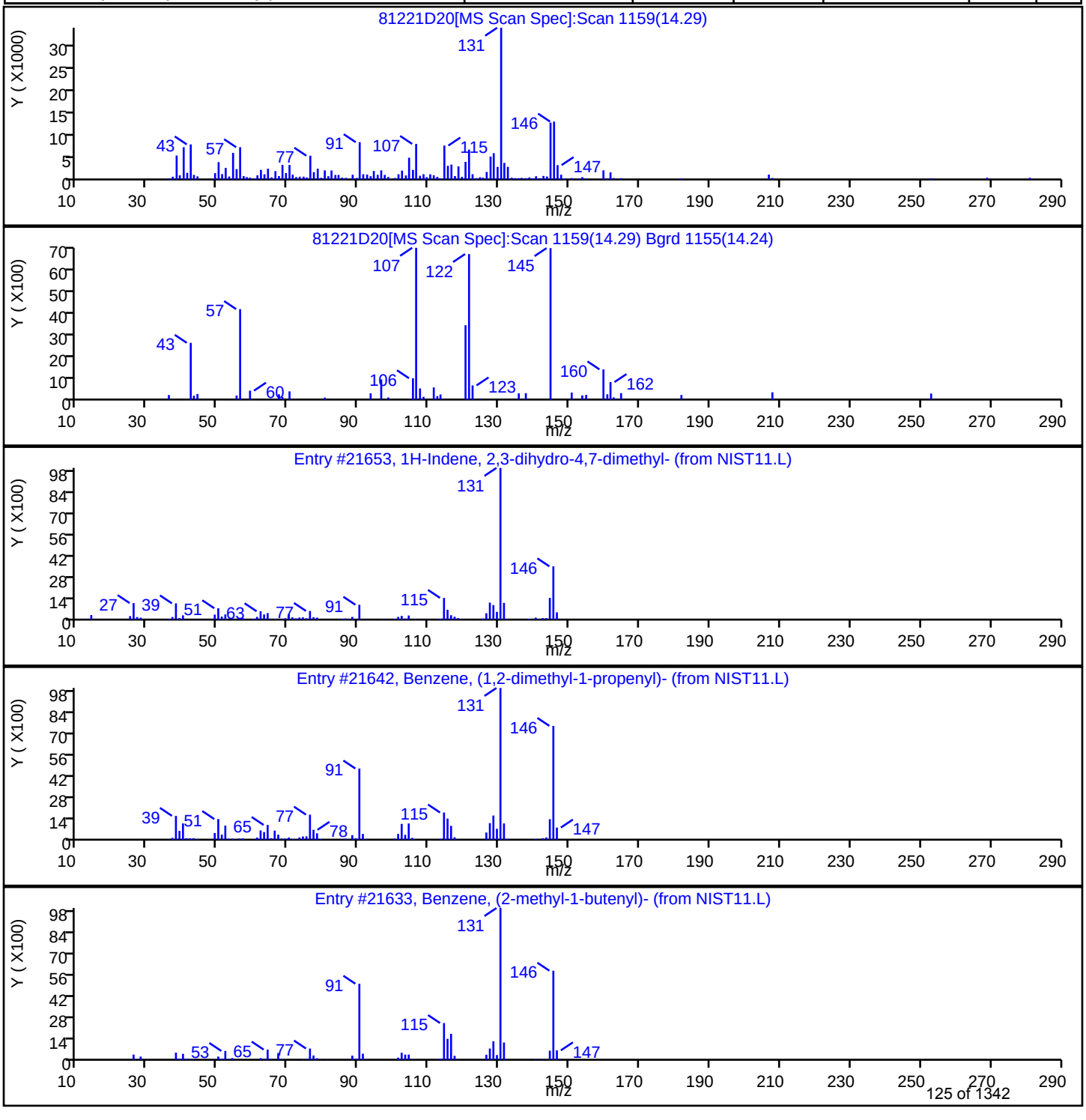
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.276

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1H-Indene, 2,3-dihydro-4,7-dimethyl-	6682-71-9	NIST11	21653	C11H14	146	95
Benzene, (1,2-dimethyl-1-propenyl)-	769-57-3	NIST11	21642	C11H14	146	94
Benzene, (2-methyl-1-butenyl)-	56253-64-6	NIST11	21633	C11H14	146	89



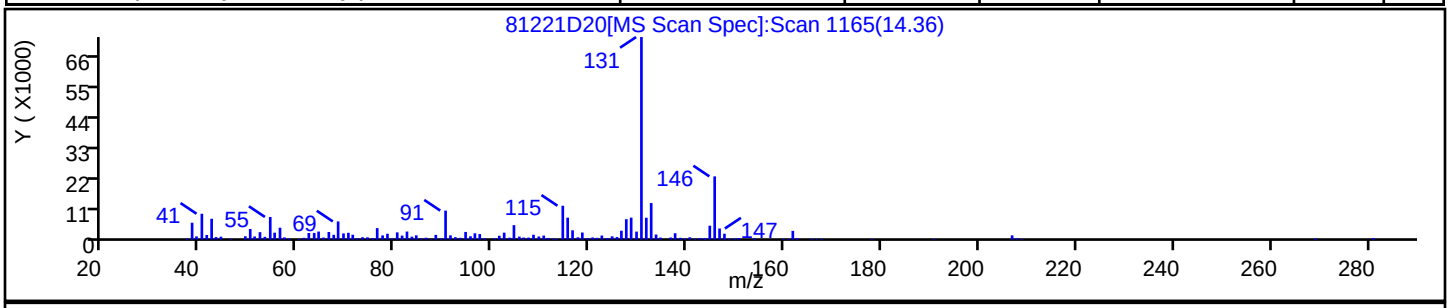
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

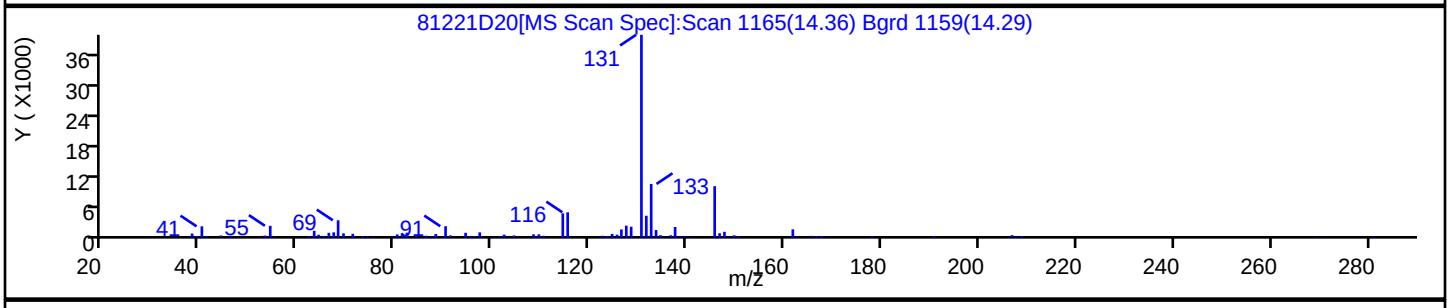
Shealy Environmental Services

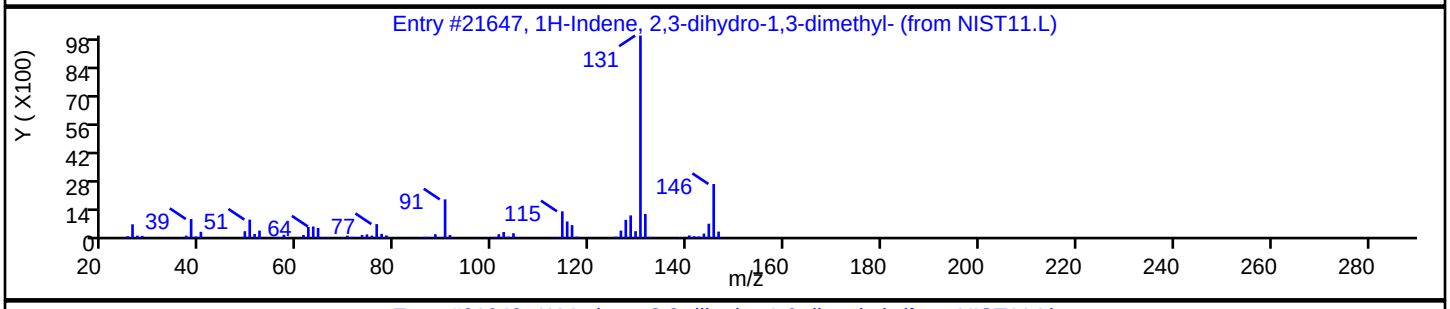
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

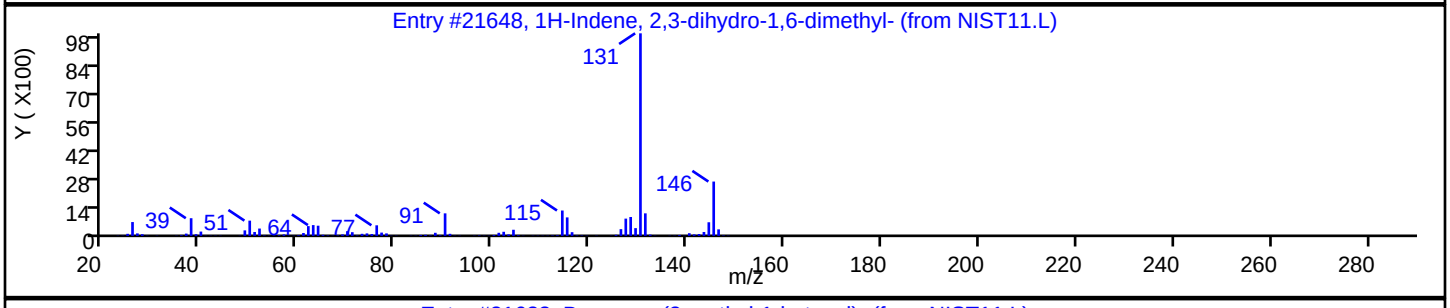
TIC @ 14.347

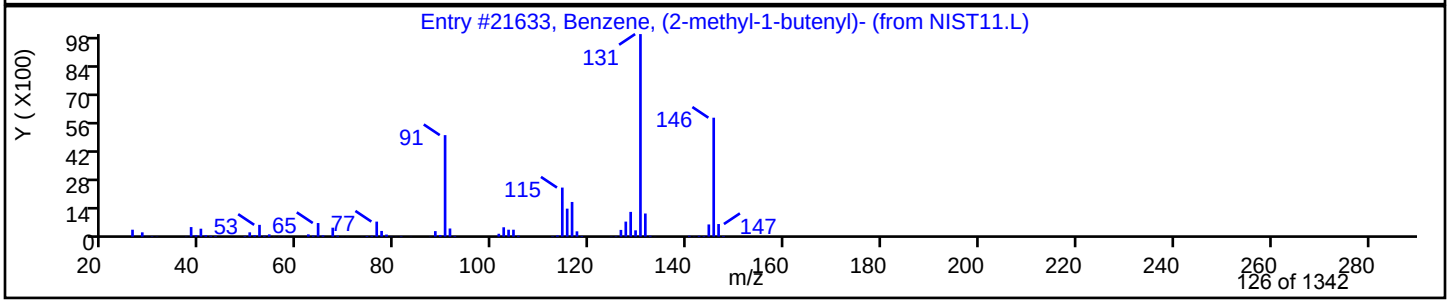
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1H-Indene, 2,3-dihydro-1,3-dimethyl-	4175-53-5	NIST11	21647	C11H14	146	94
1H-Indene, 2,3-dihydro-1,6-dimethyl-	17059-48-2	NIST11	21648	C11H14	146	93
Benzene, (2-methyl-1-butenyl)-	56253-64-6	NIST11	21633	C11H14	146	91











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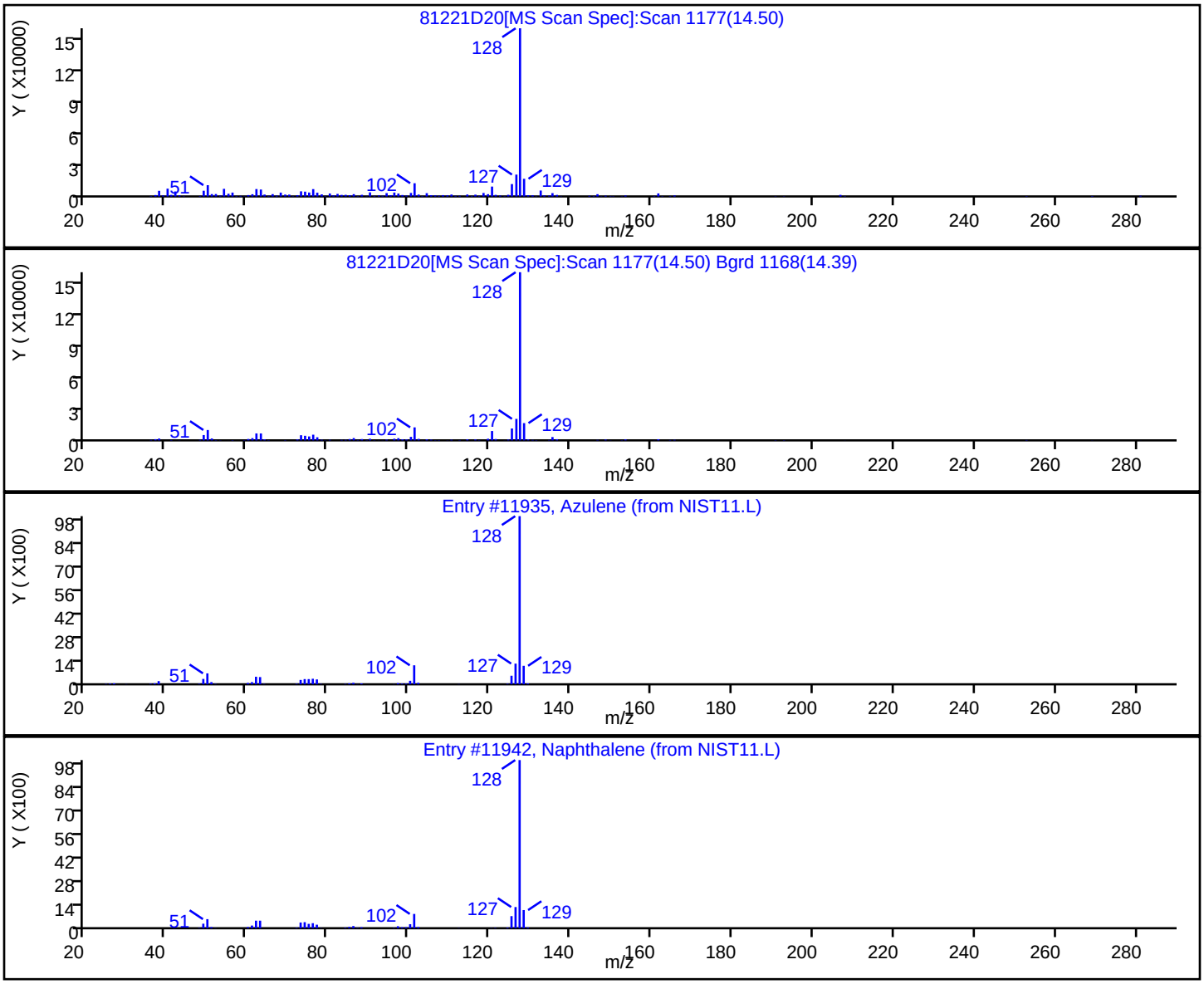
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.489

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Azulene	275-51-4	NIST11	11935	C10H8	128	95
Naphthalene	91-20-3	NIST11	11942	C10H8	128	95



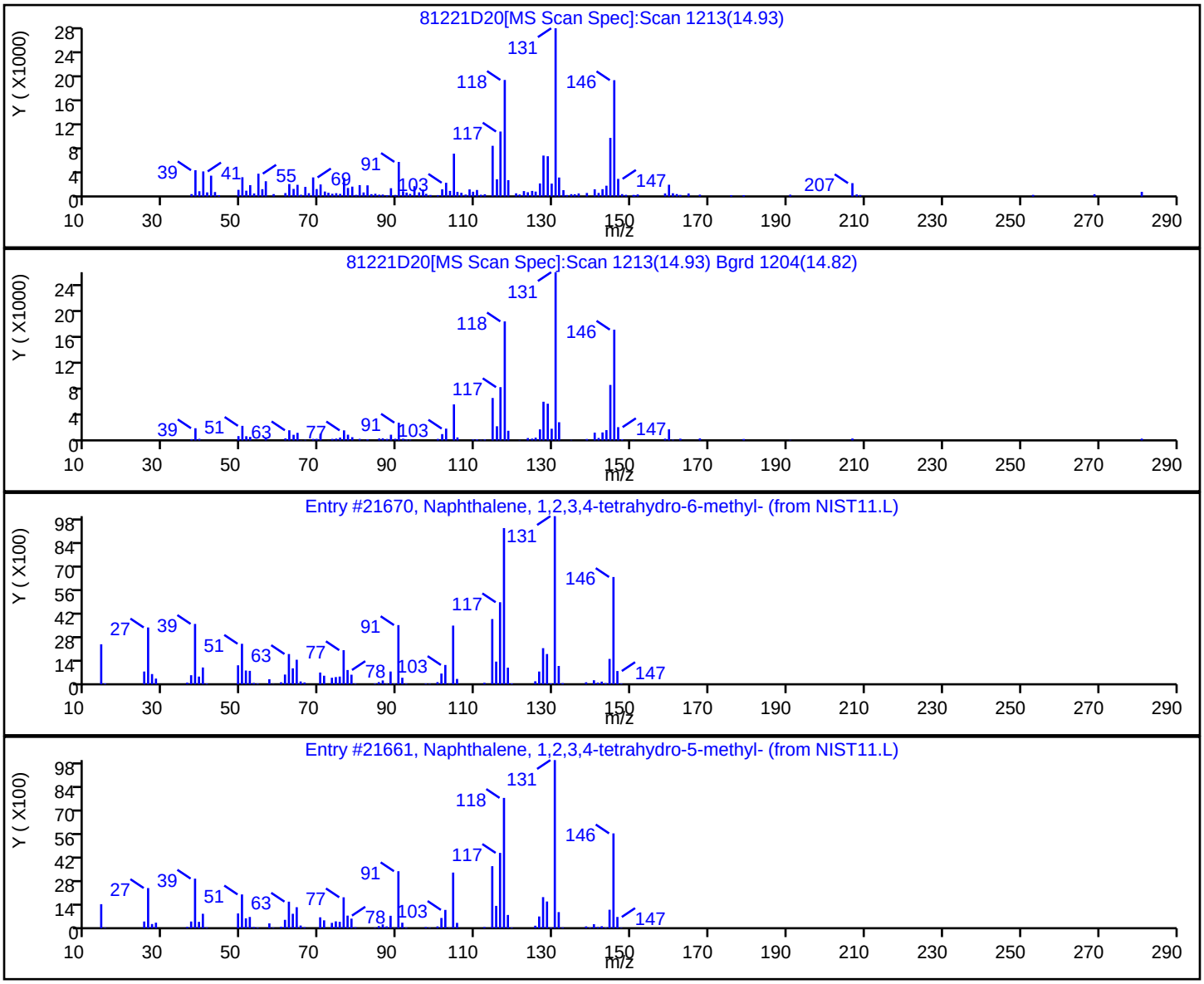
Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D		
Injection Date:	21-Dec-2015 20:42:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122115D.b, QL16010-003		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.915

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,2,3,4-tetrahydro-6-methyl	1680-51-9	NIST11	21670	C11H14	146	95
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	2809-64-5	NIST11	21661	C11H14	146	94



Report Date: 05-Jan-2016 09:38:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D

Injection Date: 21-Dec-2015 20:42:30 Inst. ID: msd8.i

Client ID: F6R33 Lab ID: QL16010-003

Sample Info: 8122115D.b, QL16010-003

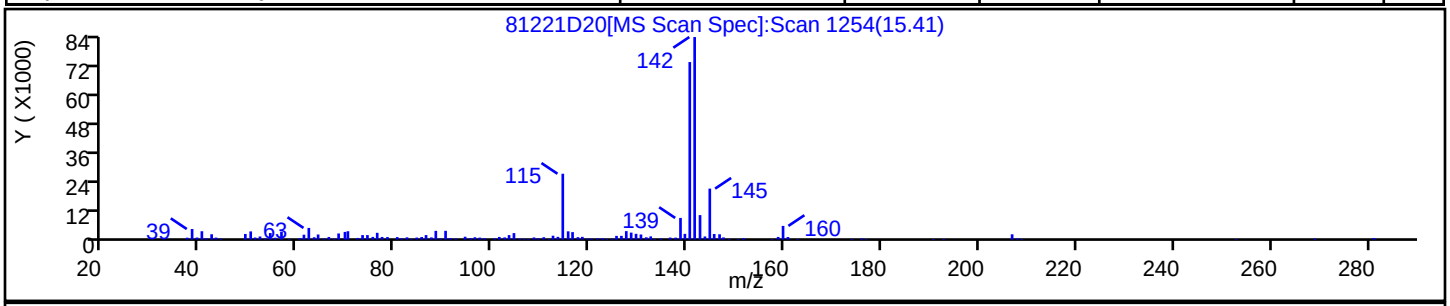
Purge Vol. 25 ML Dil. Factor: 1.0

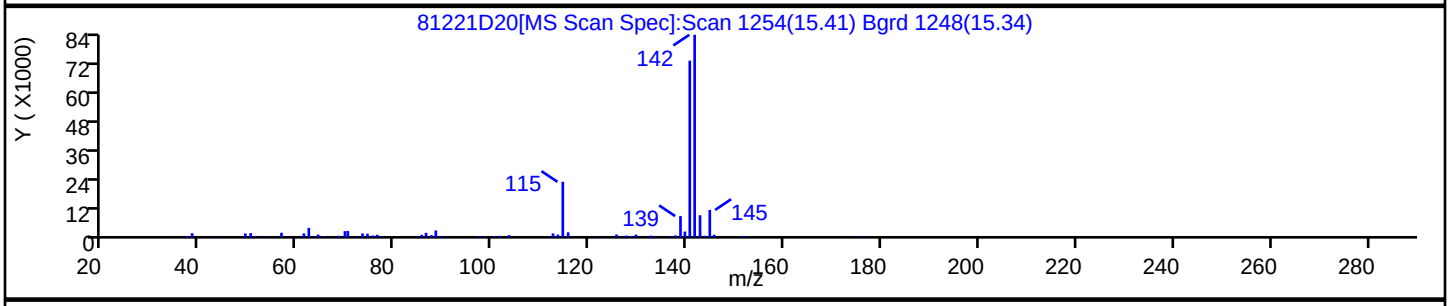
Operator: ALL

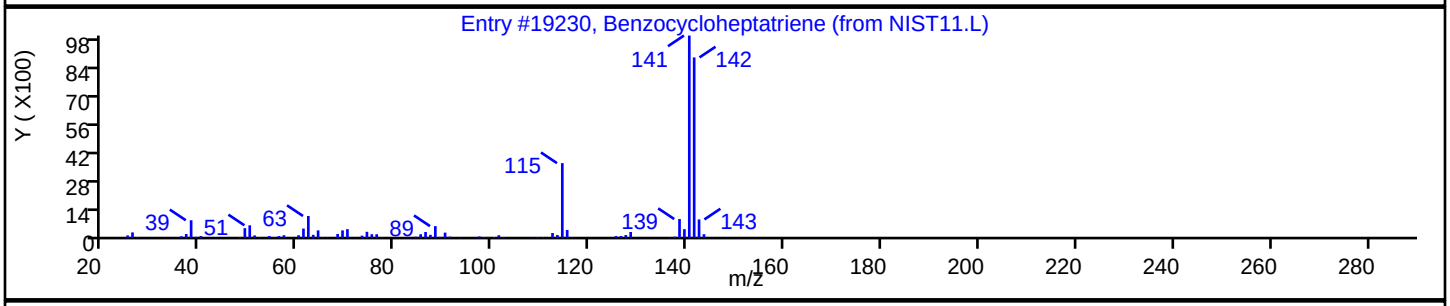
Column1: DB-624 (0.25 mm) Detector: MS Scan

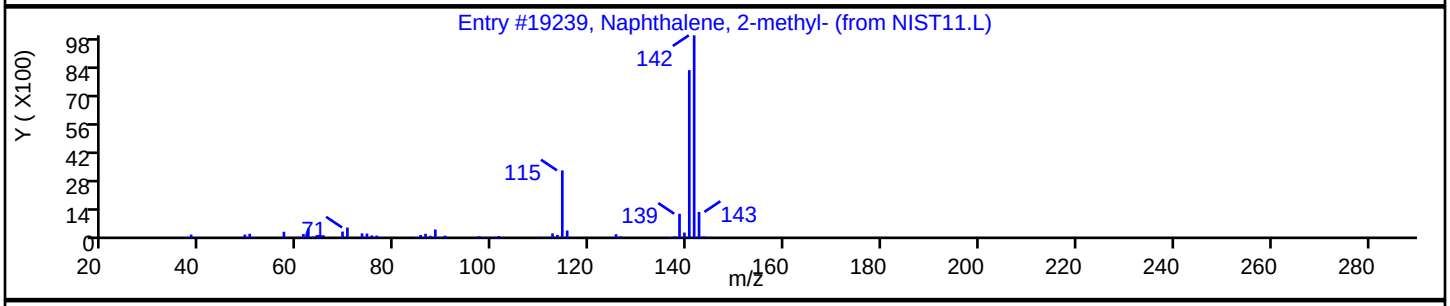
TIC @ 15.400

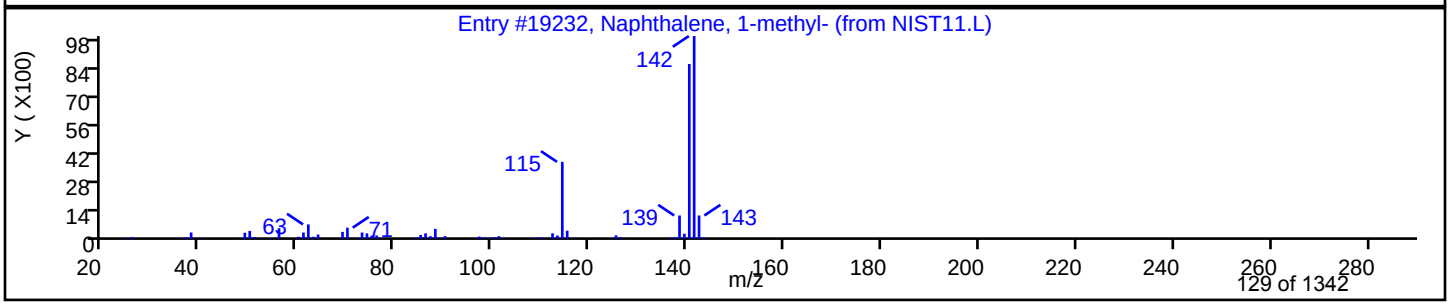
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzocycloheptatriene	264-09-5	NIST11	19230	C11H10	142	91
Naphthalene, 2-methyl-	91-57-6	NIST11	19239	C11H10	142	96
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	96











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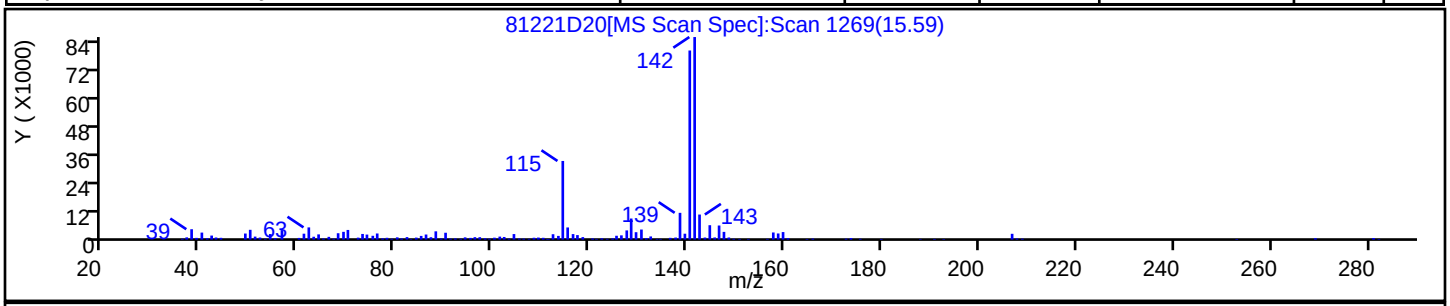
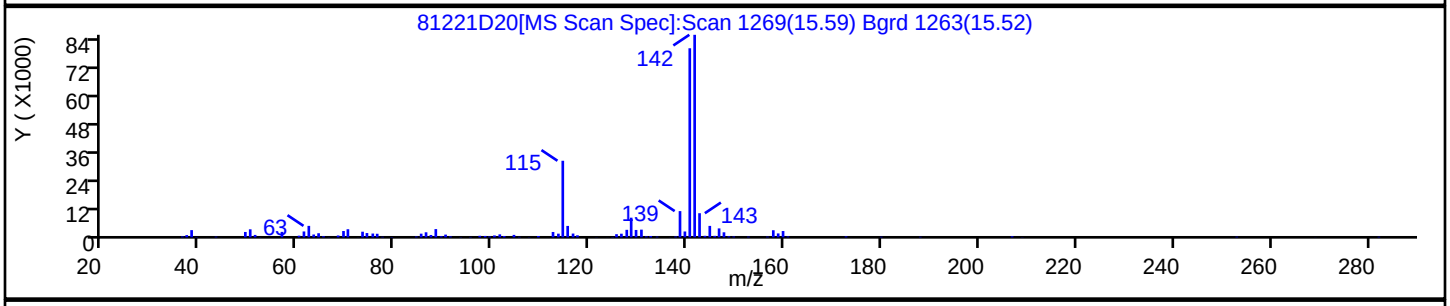
Shealy Environmental Services

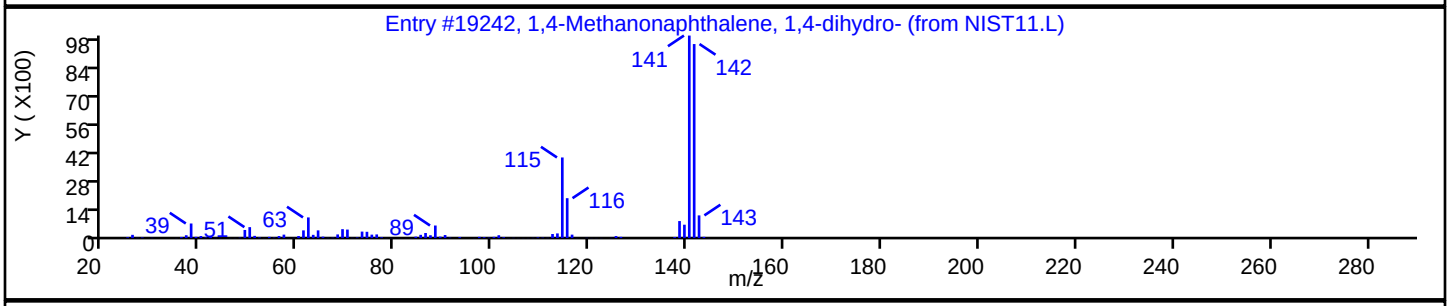
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D20.D
Injection Date: 21-Dec-2015 20:42:30 Inst. ID: msd8.i
Client ID: F6R33 Lab ID: QL16010-003
Sample Info: 8122115D.b, QL16010-003
Purge Vol. 25 ML Dil. Factor: 1.0
Operator: ALL
Column1: DB-624 (0.25 mm) Detector: MS Scan

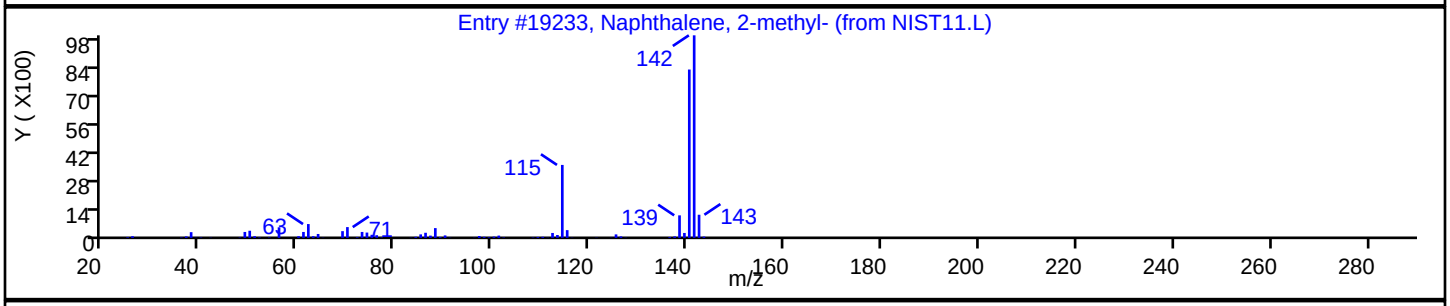
TIC @ 15.577

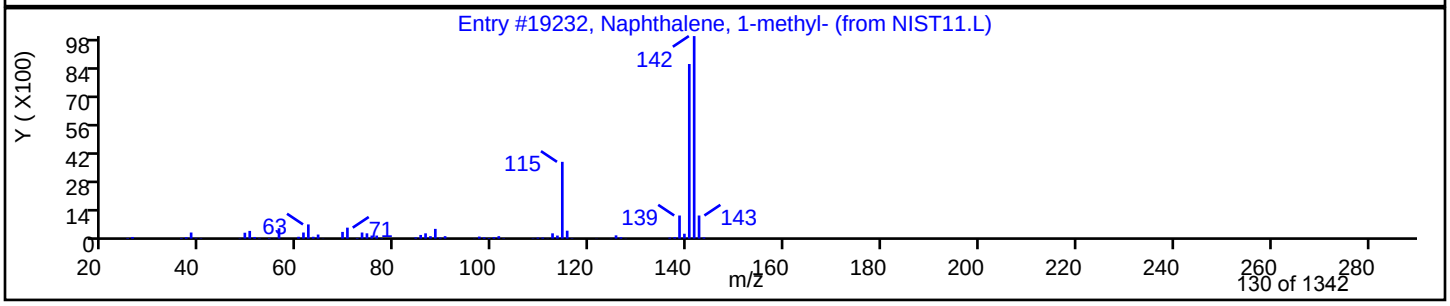
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NIST11	19242	C11H10	142	93
Naphthalene, 2-methyl-	91-57-6	NIST11	19233	C11H10	142	96
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	96











FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33DL

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222B06

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 5.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	2.5	U
74-87-3	Chloromethane	2.5	U
75-01-4	Vinyl chloride	2.5	U
74-83-9	Bromomethane	2.5	U
75-00-3	Chloroethane	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	2.5	U
67-64-1	Acetone	28	D
75-15-0	Carbon disulfide	2.5	U
79-20-9	Methyl acetate	2.5	U
75-09-2	Methylene chloride	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
1634-04-4	Methyl tert-butyl ether	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
78-93-3	2-Butanone	25	U
74-97-5	Bromochloromethane	2.5	U
67-66-3	Chloroform	1.5	J D
71-55-6	1,1,1-Trichloroethane	2.5	U
110-82-7	Cyclohexane	10	D
56-23-5	Carbon tetrachloride	2.5	U
71-43-2	Benzene	9.6	D
107-06-2	1,2-Dichloroethane	2.5	U
79-01-6	Trichloroethene	2.5	U
108-87-2	Methylcyclohexane	20	D
78-87-5	1,2-Dichloropropane	2.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33DL

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222B06

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 5.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	2.5	U
10061-01-5	cis-1,3-Dichloropropene	2.5	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	12	D
10061-02-6	trans-1,3-Dichloropropene	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U
127-18-4	Tetrachloroethene	2.5	U
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
108-90-7	Chlorobenzene	2.5	U
100-41-4	Ethylbenzene	15	D
95-47-6	o-Xylene	32	D
179601-23-1	m, p-Xylene	57	D
100-42-5	Styrene	2.5	U
75-25-2	Bromoform	2.5	U
98-82-8	Isopropylbenzene	9.9	D
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U
120-82-1	1,2,4-Trichlorobenzene	2.5	U
87-61-6	1,2,3-Trichlorobenzene	2.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R33DL

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: Trace VOA
Level: TRACE
Matrix: Water
Lab Sample ID: QL16010-003
Sample wt/vol: 25.0 (g/mL) mL
Lab File ID: 81222B06
% Solids:
Date Received: 12/16/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 25.0 (mL)
Injection Volume:
Cleanup Types:
pH: 2 Dilution Factor: 5.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	5.57	8.8	J D
02	103-65-1	Benzene, propyl-	12.17	11	NJ D
03	620-14-4	Benzene, 1-ethyl-3-methyl-	12.23	30	NJ D
04	526-73-8	Benzene, 1,2,3-trimethyl-	12.30	19	NJ D
05	611-14-3	Benzene, 1-ethyl-2-methyl-	12.47	13	NJ D
06	108-67-8	Mesitylene	12.60	61	NJ D
07	527-84-4	o-Cymene	12.80	7.7	NJ D
08	95-63-6	Benzene, 1,2,4-trimethyl-	12.92	35	NJ D
09	496-11-7	Indane	13.08	26	NJ D
10	1074-55-1	Benzene, 1-methyl-4-propyl-	13.26	6.4	NJ D
11	1758-88-9	Benzene, 2-ethyl-1,4-	13.32	18	NJ D
12	933-98-2	Benzene, 1-ethyl-2,3-	13.39	16	NJ D
13		Unknown-02	13.48	26	J D
14		Unknown-03	13.61	9.4	J D
15	76089-59-3	1,3-Cyclopentadiene, 1,2,3,4-	13.67	6.9	NJ D
16	488-23-3	Benzene, 1,2,3,4-tetramethyl-	13.71	17	NJ D
17	2050-24-0	Benzene, 1,3-diethyl-5-	13.76	11	NJ D
18	934-10-1	3-Phenylbut-1-ene	13.91	11	NJ D
19	95-93-2	Benzene, 1,2,4,5-tetramethyl-	14.00	51	NJ D
20	119-64-2	Naphthalene, 1,2,3,4-	14.15	7.7	NJ D
21	1000320-15-7	Benzamide, N-[(3,4-dihydro-	14.24	8.7	NJ D
22	6682-71-9	1H-Indene, 2,3-dihydro-4,7-	14.28	7.1	NJ D
23	4175-53-5	1H-Indene, 2,3-dihydro-1,3-	14.35	16	NJ D
24	275-51-4	Azulene	14.49	15	NJ D
25	1680-51-9	Naphthalene, 1,2,3,4-	14.91	11	NJ D
26	264-09-5	Benzocycloheptatriene	15.40	10	NJ D
27	4453-90-1	1,4-Methanonaphthalene, 1,4-	15.58	6.8	NJ D
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Lab Sample ID:	QL16010-003DL	Client Sample ID:	F6R33DL
Injection Date:	22-Dec-2015 12:32:30	Dil. Factor:	5.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122215B.b, QL16010-003,5		
Method:	\\Organics\DD\chem\msd8.i\8122215B.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:45:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	6
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	5.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	05-Jan-2016 09:42:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
1 Dichlorodifluoromethane	85.0		1.745		ND			
2 Chloromethane	50.0		1.922		ND			
$ 3 Vinyl Chloride-d3	65.0	2.040	2.040	0.000	49065	6.2106	6.2106	
4 Vinyl Chloride	62.0		2.052		ND			
5 Bromomethane	94.0		2.395		ND			
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	40011	5.6945	5.6944	
7 Chloroethane	64.0		2.502		ND			
8 Trichlorofluoromethane	101.0		2.786		ND			
$ 12 1,1-Dichloroethene-d2	63.0	3.377	3.378	-0.001	110636	4.2478	4.2478	
13 1,1-Dichloroethene	96.0		3.389		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.401		ND			
14 Acetone	43.0	3.448	3.437	0.011	5938	5.5635	27.817	
15 Carbon Disulfide	76.0		3.685		ND			
16 Methyl Acetate	43.0		3.874		ND			
17 Methylene Chloride	84.0		4.005		ND			
20 Methyl tert-Butyl Ether	73.0		4.371		ND			
21 trans-1,2-Dichloroethene	96.0		4.371		ND			
23 1,1-Dichloroethane	63.0		4.928		ND			
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	128076	55.946	55.946	
26 cis-1,2-Dichloroethene	96.0		5.697		ND			
28 2-Butanone	43.0		5.697		ND			
29 Bromochloromethane	128.0		6.004		ND			
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	119394	5.1651	5.1650	Q
31 Chloroform	83.0	6.111	6.111	0.000	8245	0.30826	1.5412	e
33 1,1,1-Trichloroethane	97.0		6.371		ND			
32 Cyclohexane	56.0	6.454	6.454	0.000	59482	2.0434	10.217	
34 Carbon Tetrachloride	117.0		6.596		ND			

Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	51055	5.1924	5.1924	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	256592	5.2402	5.2402	
37 Benzene	78.0	6.856	6.856	0.000	97649	1.9270	9.6350	
39 1,2-Dichloroethane	62.0		6.868		ND			
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	276701	5.0000	25.000	
42 Trichloroethene	95.0		7.720		ND			
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	69176	5.0785	5.0785	
43 Methylcyclohexane	83.0	7.980	7.981	0.000	82285	3.9784	19.892	
45 1,2-Dichloropropane	63.0		8.016		ND			
49 Bromodichloromethane	83.0		8.383		ND			
50 cis-1,3-Dichloropropene	75.0		8.986		ND			
51 4-Methyl-2-pentanone	43.0		9.199		ND			
$ 52 Toluene-d8	98.0	9.353	9.341	0.012	245542	5.3723	5.3723	
53 Toluene	91.0	9.436	9.436	0.000	131775	2.4555	12.277	
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	53617	5.4039	5.4038	
55 trans-1,3-Dichloropropene	75.0		9.684		ND			
56 1,1,2-Trichloroethane	97.0		9.897		ND			
57 Tetrachloroethene	164.0		10.075		ND			
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	73251	51.898	51.898	Q
60 2-Hexanone	43.0		10.170		ND			
61 Dibromochloromethane	129.0		10.335		ND			
62 1,2-Dibromoethane	107.0		10.454		ND			
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	224063	5.0000	25.000	
64 Chlorobenzene	112.0		10.939		ND			
65 Ethylbenzene	91.0	11.045	11.045	0.000	177056	2.9839	14.920	
67 m+p-Xylenes	106.0	11.152	11.152	0.000	273805	11.356	56.780	
68 o-Xylene	106.0	11.507	11.507	0.000	145643	6.4306	32.153	
69 Styrene	104.0		11.519		ND			
70 Bromoform	173.0		11.684		ND			
71 Isopropylbenzene	105.0	11.826	11.826	0.000	114083	1.9860	9.9300	
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.051	12.051	0.000	28519	5.4169	5.4168	
74 1,1,2,2-Tetrachloroethane	83.0		12.063		ND			
83 1,3-Dichlorobenzene	146.0		12.820		ND			
* 85 1,4-Dichlorobenzene-d4	152.0	12.867	12.868	-0.001	107530	5.0000	25.000	
86 1,4-Dichlorobenzene	146.0		12.891		ND			
$ 87 1,2-Dichlorobenzene-d4	152.0	13.151	13.151	0.000	65092	5.1639	5.1638	
89 1,2-Dichlorobenzene	146.0		13.175		ND			
90 1,2-Dibromo-3-chloropropane	75.0		13.719		ND			
91 1,2,4-Trichlorobenzene	180.0		14.299		ND			
94 1,2,3-Trichlorobenzene	180.0		14.666		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Lab Sample ID:	QL16010-003DL	Client Sample ID:	F6R33DL
Injection Date:	22-Dec-2015 12:32:30	Dil. Factor:	5.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122215B.b, QL16010-003,5		
Method:	\\Organics\DD\chem\msd8.i\8122215B.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:45:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	6
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	5.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	05-Jan-2016 09:42:30

Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown						
5.567	282451	1.7552	8.7760	41				
103-65-1		Benzene, propyl-						
12.169	374404	2.2413	11.206	85	90	9408	C9H12	120
620-14-4		Benzene, 1-ethyl-3-methyl-						
12.228	986576	5.9058	29.529	85	97	9423	C9H12	120
526-73-8		Benzene, 1,2,3-trimethyl-						
12.299	626079	3.7478	18.739	85	95	9418	C9H12	120
611-14-3		Benzene, 1-ethyl-2-methyl-						
12.465	448703	2.6860	13.430	85	95	9425	C9H12	120
108-67-8		Mesitylene						
12.595	2024989	12.122	60.610	85	95	9400	C9H12	120
527-84-4		o-Cymene						
12.796	257803	1.5433	7.7163	85	95	14810	C10H14	134
95-63-6		Benzene, 1,2,4-trimethyl-						
12.915	1162029	6.9561	34.781	85	95	9421	C9H12	120
496-11-7		Indane						
13.080	857281	5.1319	25.659	85	93	8949	C9H10	118
1074-55-1		Benzene, 1-methyl-4-propyl-						
13.258	214425	1.2836	6.4180	85	94	14857	C10H14	134
1758-88-9		Benzene, 2-ethyl-1,4-dimethyl-						
13.317	614515	3.6786	18.393	85	97	14889	C10H14	134
933-98-2		Benzene, 1-ethyl-2,3-dimethyl-						
13.388	536064	3.2090	16.045	85	96	14880	C10H14	134
		Unknown						
13.483	881778	5.2785	26.392	85				

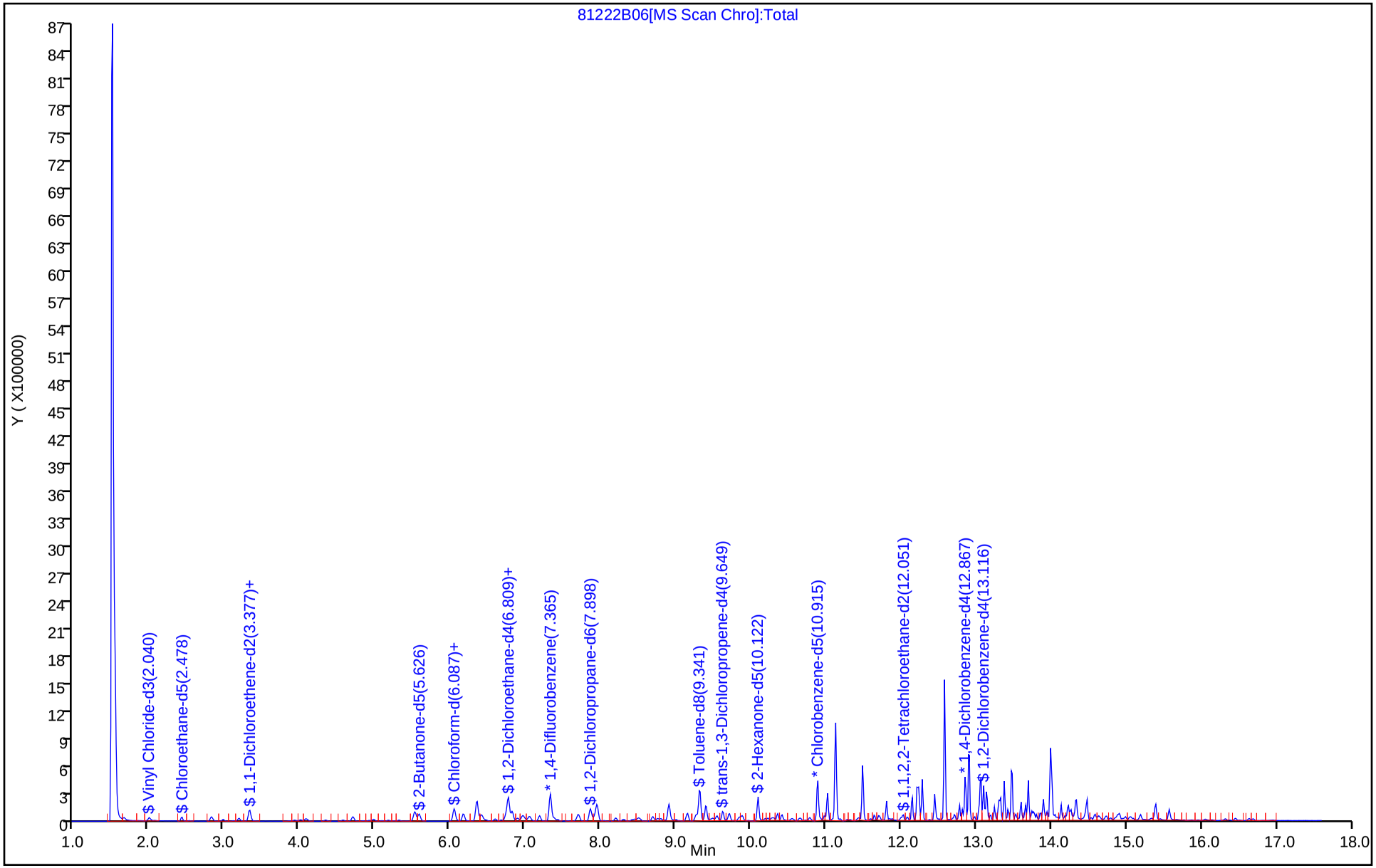
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
13.613	312537	1.8709	9.3546	85				
76089-59-3	1,3-Cyclopentadiene, 1,2,3,4-tetramethyl							
13.672	229513	1.3739	6.8696	85	97	14939	C10H14	134
488-23-3	Benzene, 1,2,3,4-tetramethyl-							
13.708	577911	3.4595	17.297	85	97	14864	C10H14	134
2050-24-0	Benzene, 1,3-diethyl-5-methyl-							
13.755	379576	2.2722	11.361	85	98	22806	C11H16	148
934-10-1	3-Phenylbut-1-ene							
13.909	356942	2.1367	10.684	85	90	14033	C10H12	132
95-93-2	Benzene, 1,2,4,5-tetramethyl-							
14.003	1709873	10.236	51.178	85	97	14872	C10H14	134
119-64-2	Naphthalene, 1,2,3,4-tetrahydro-							
14.145	257158	1.5394	7.6970	85	96	14084	C10H12	132
1000320-15-7	Benzamide, N-[(3,4-dihydro-1H-2-benzopyr							
14.240	291277	1.7436	8.7182	85	86	128428	C18H19NO2	281
6682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethyl-							
14.276	235567	1.4102	7.0508	85	95	21651	C11H14	146
4175-53-5	1H-Indene, 2,3-dihydro-1,3-dimethyl-							
14.347	530835	3.1777	15.888	85	94	21647	C11H14	146
275-51-4	Azulene							
14.489	493640	2.9550	14.775	85	91	11935	C10H8	128
1680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-methyl							
14.915	366182	2.1920	10.960	85	95	21670	C11H14	146
264-09-5	Benzocycloheptatriene							
15.400	337220	2.0187	10.093	85	91	19230	C11H10	142
4453-90-1	1,4-Methanonaphthalene, 1,4-dihydro-							
15.577	227235	1.3603	6.8014	85	93	19242	C11H10	142

Quant. Compounds	RT	Response	Amount ug/L
* 41 1,4-Difluorobenzene	7.365	804614	5.0000
* 85 1,4-Dichlorobenzene-d4	12.867	835255	5.0000

Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D				
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	F6R33DL	Lab ID:	QL16010-003DL		
Sample Info:	8122215B.b, QL16010-003,5				
Purge Vol.	25 ML	Dil. Factor:	5.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

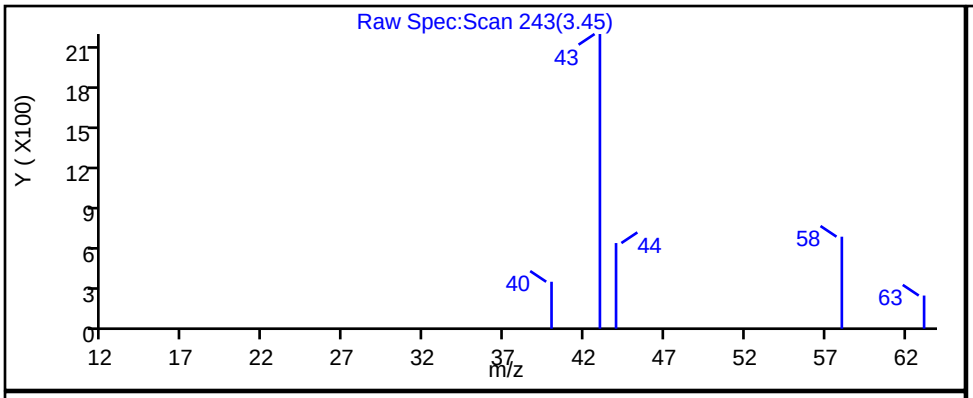


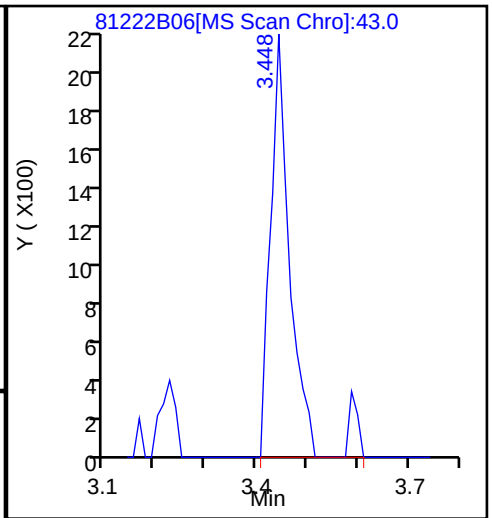
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

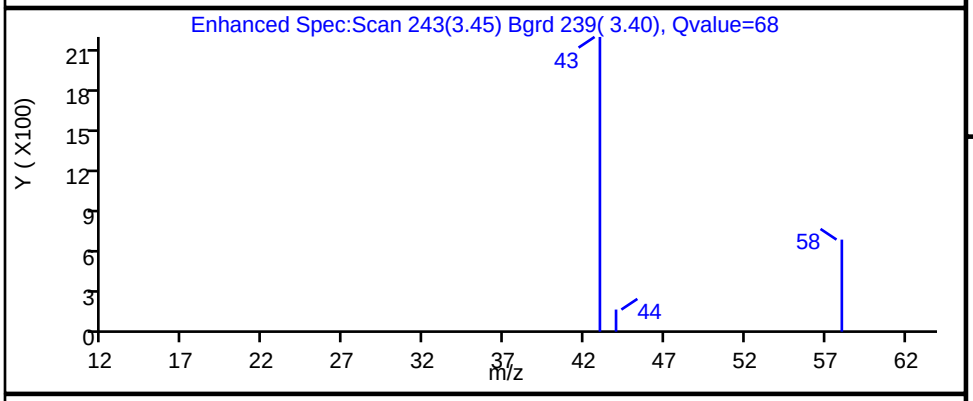
Shealy Environmental Services

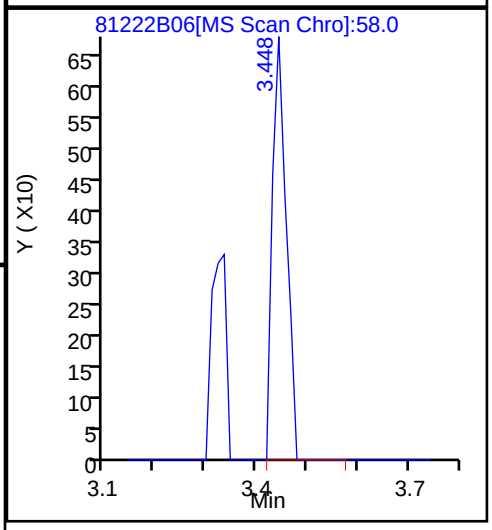
Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

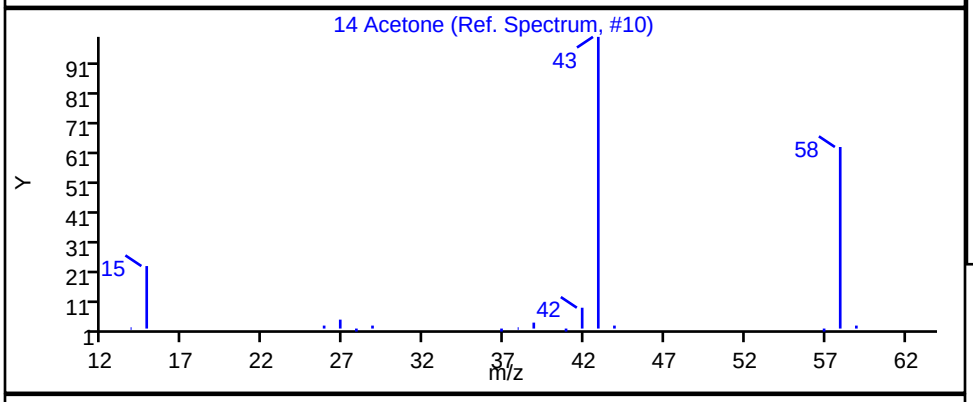
14 Acetone

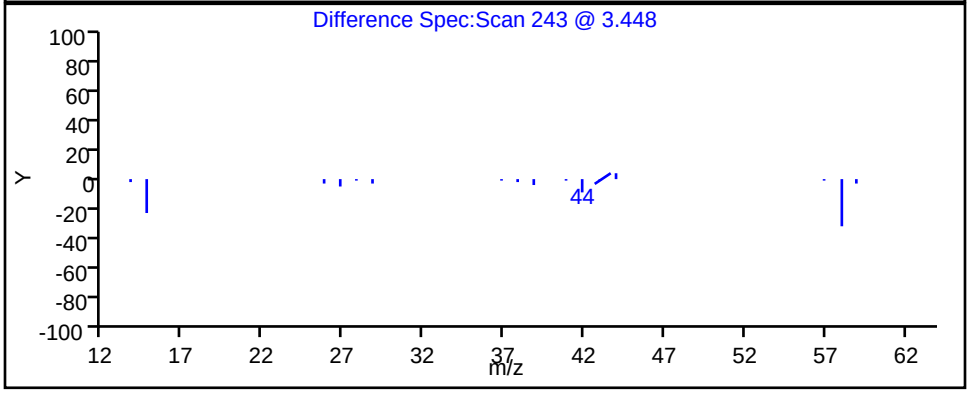










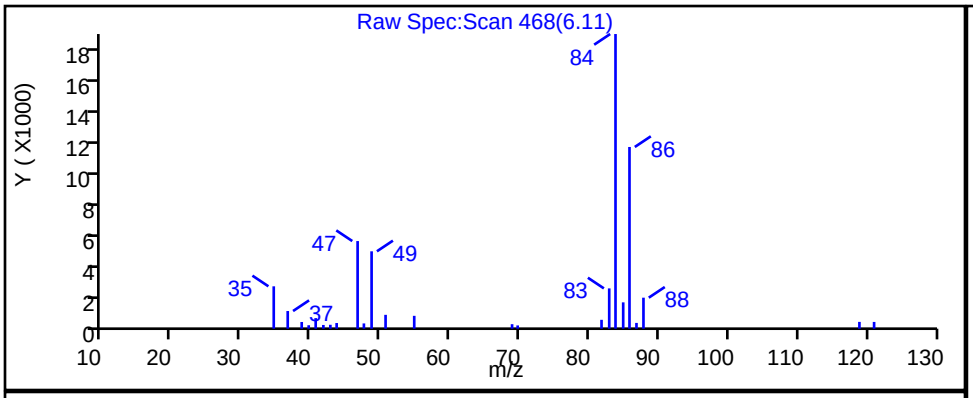


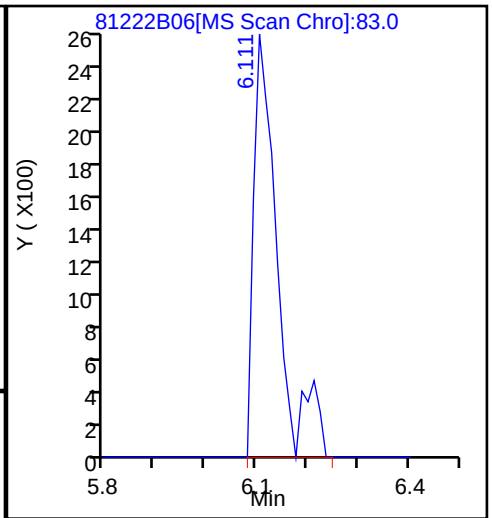
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

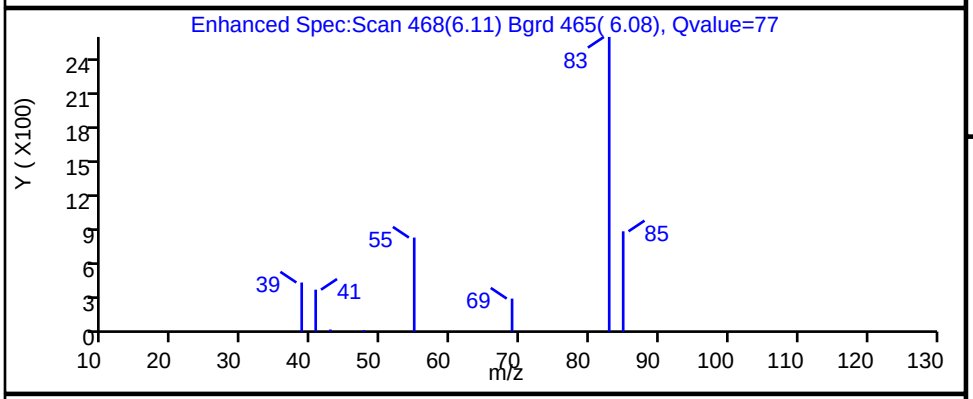
Shealy Environmental Services

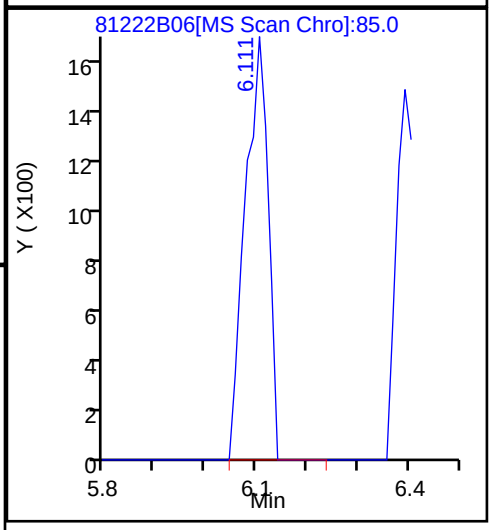
Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

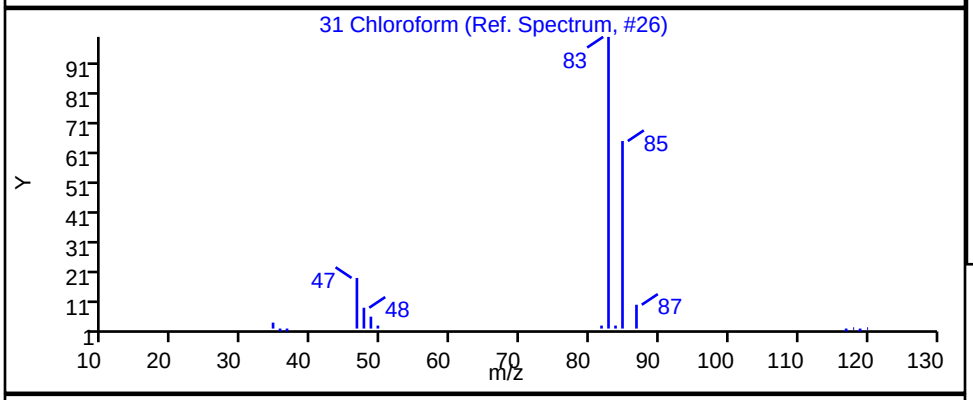
31 Chloroform

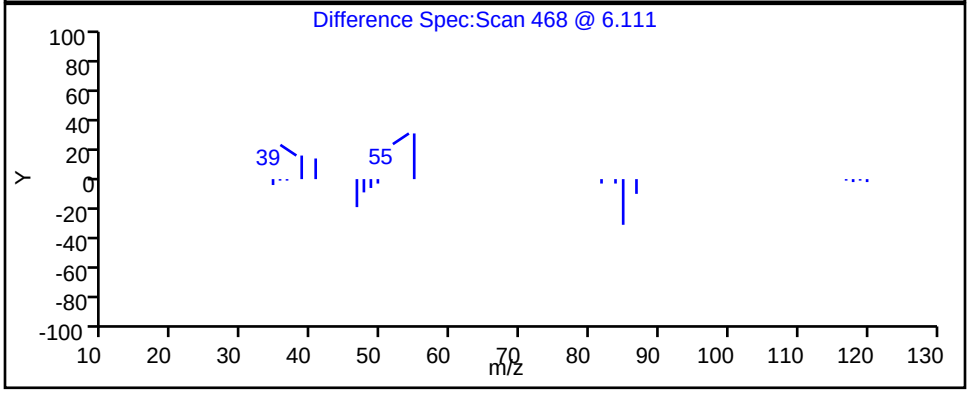












Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
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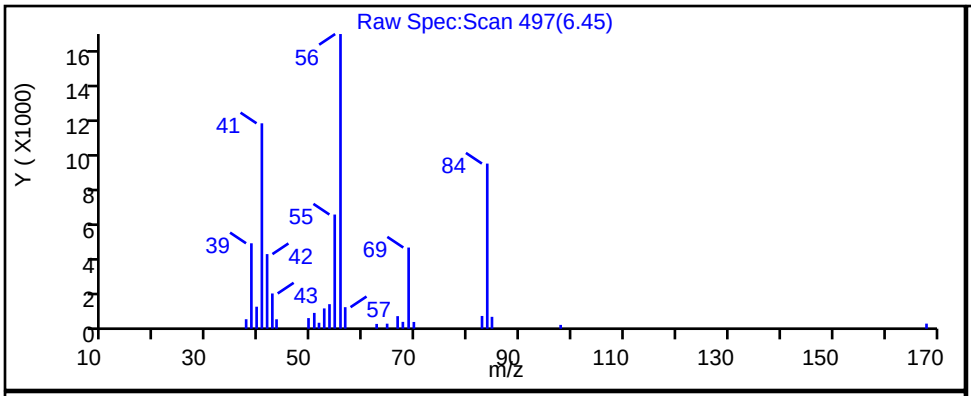
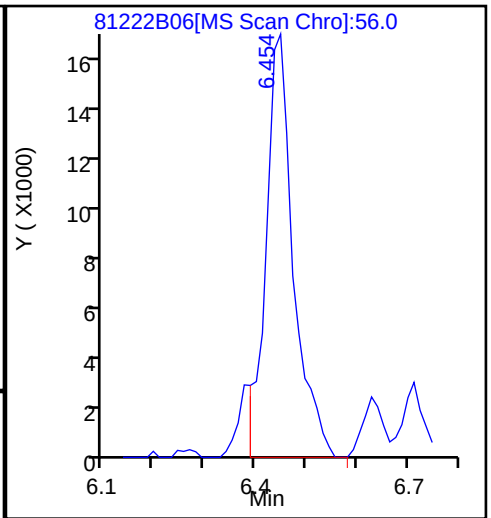
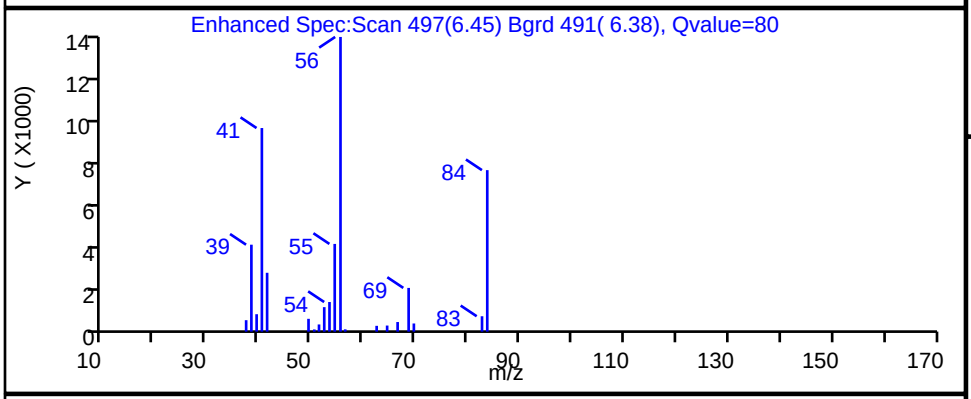
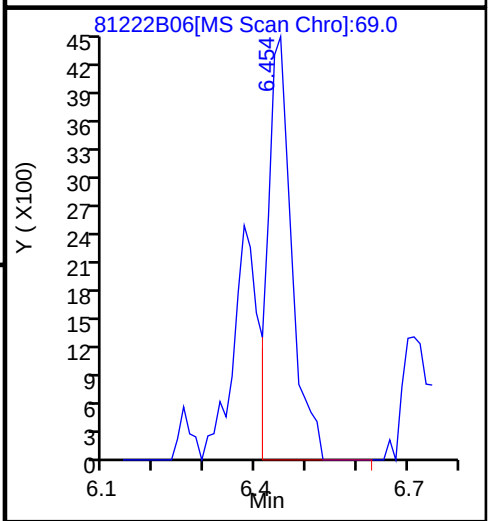
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

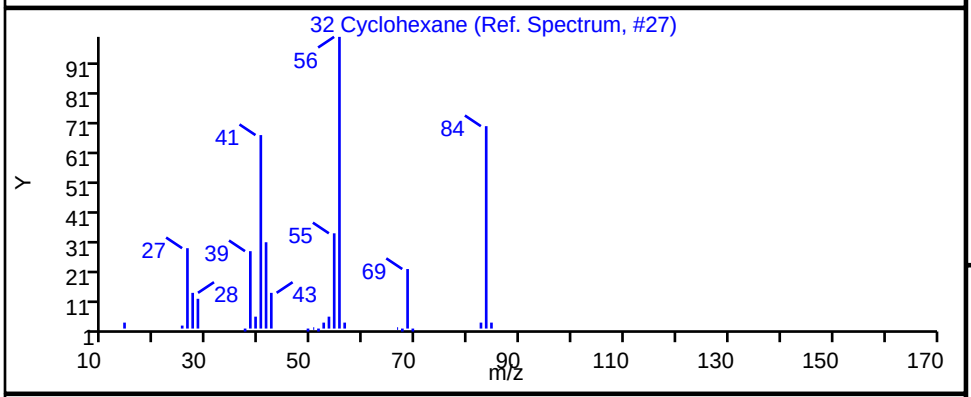
32 Cyclohexane

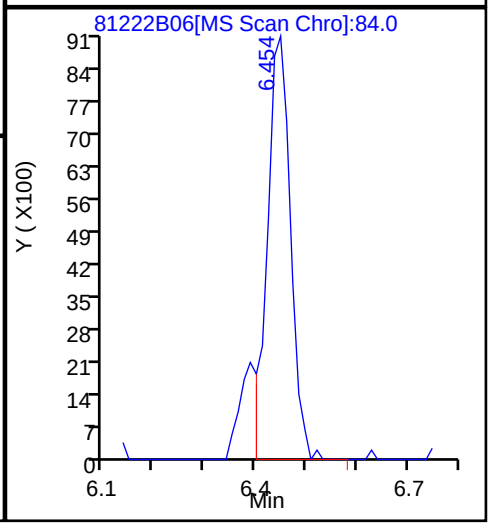


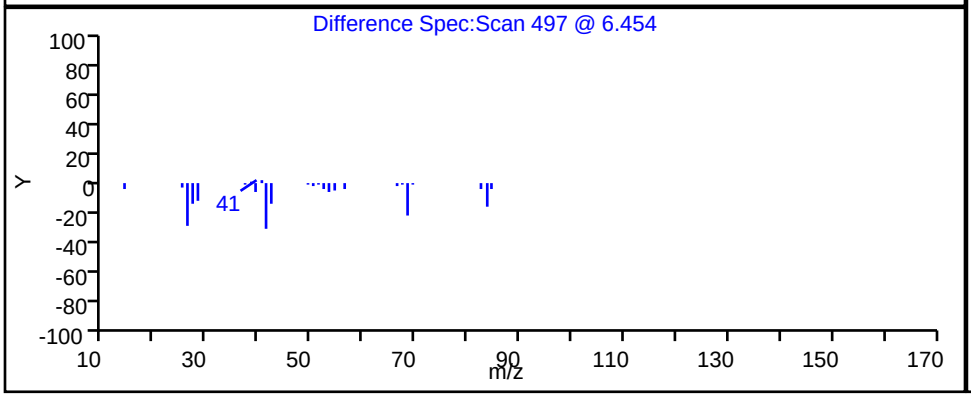












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Shealy Environmental Services

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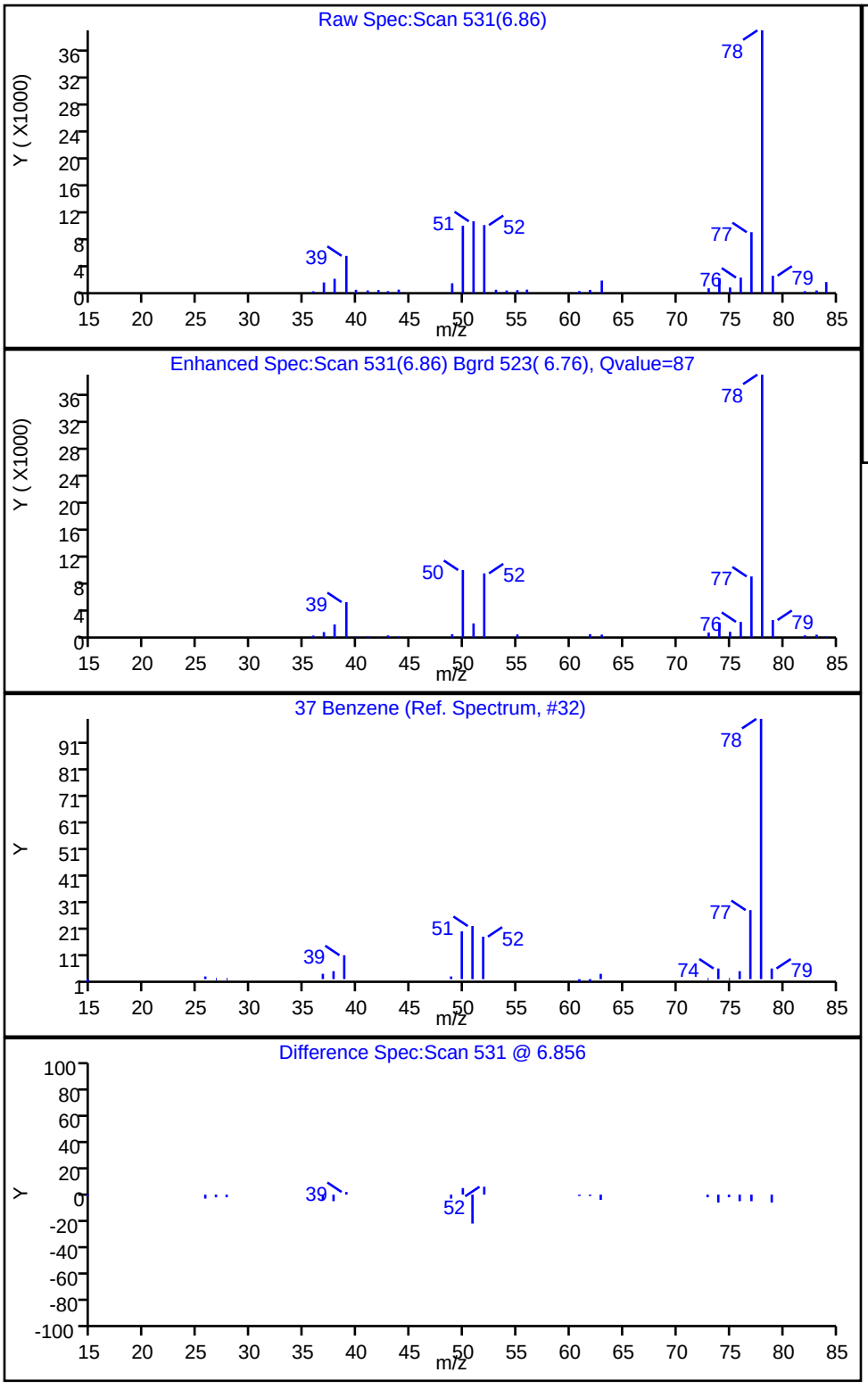
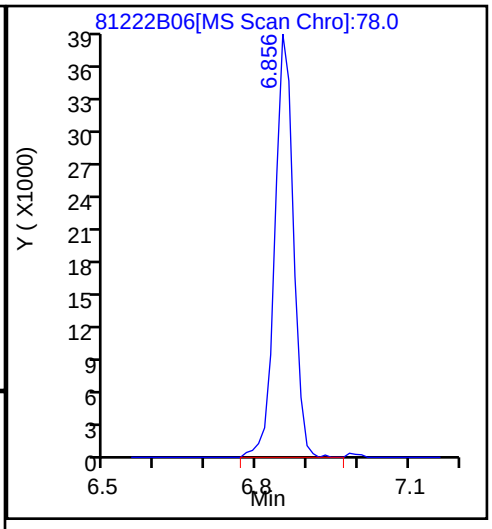
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

37 Benzene





Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

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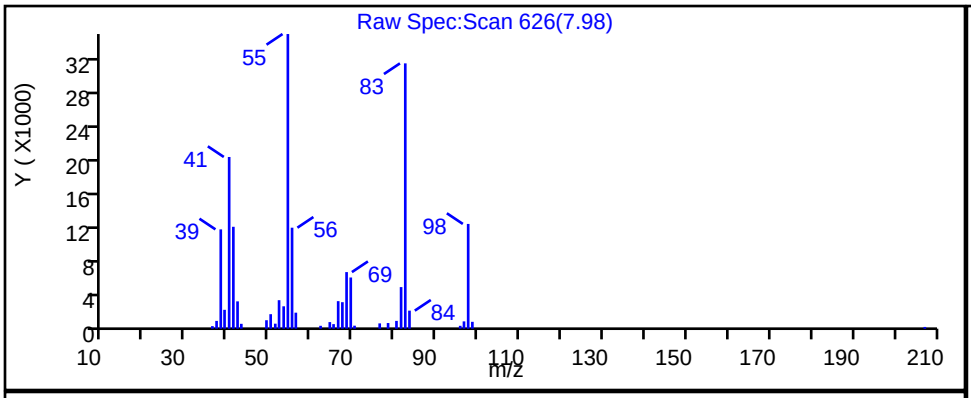
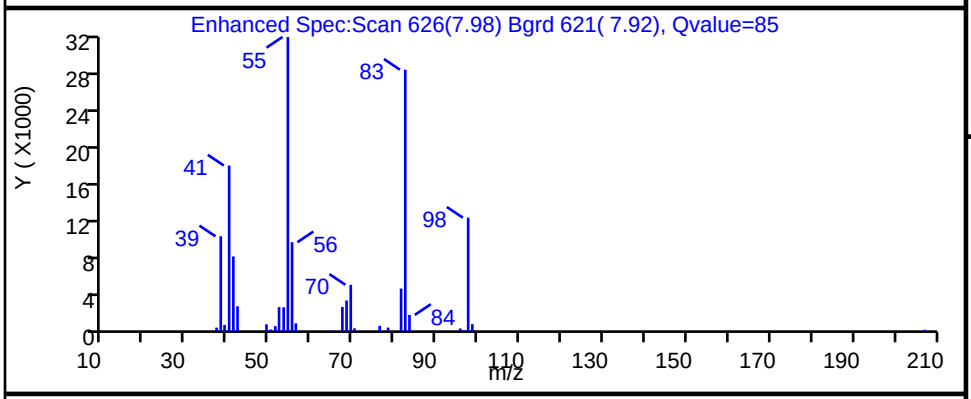
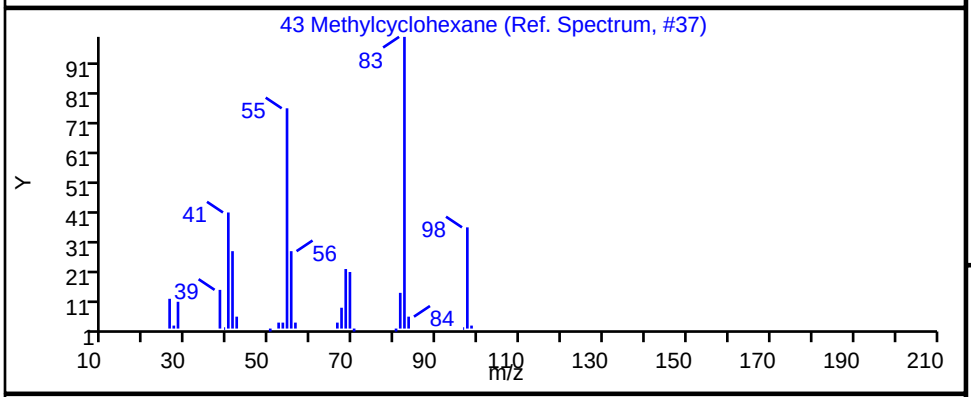
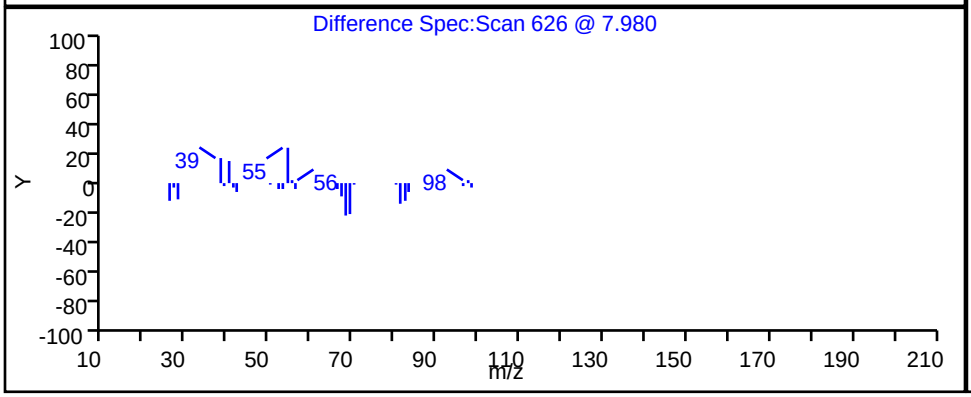
Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

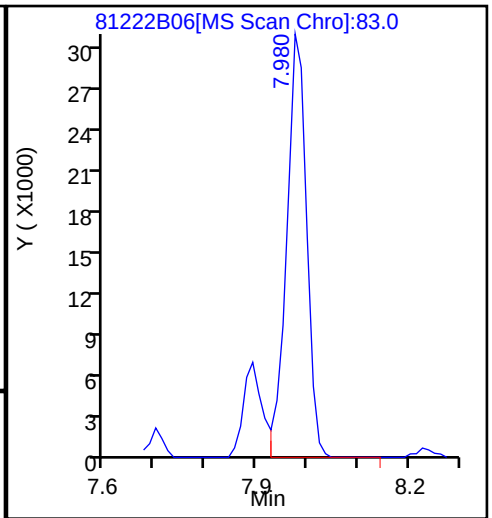
43 Methylcyclohexane

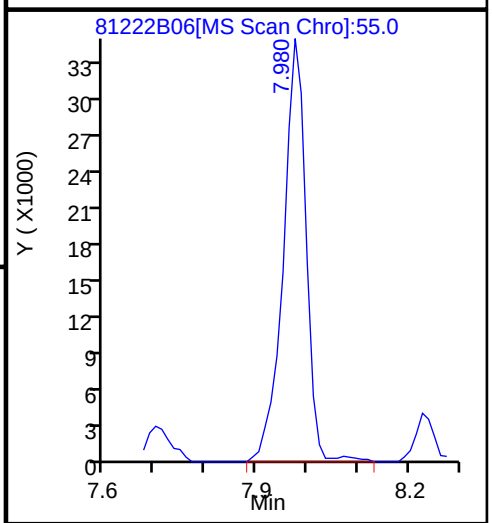


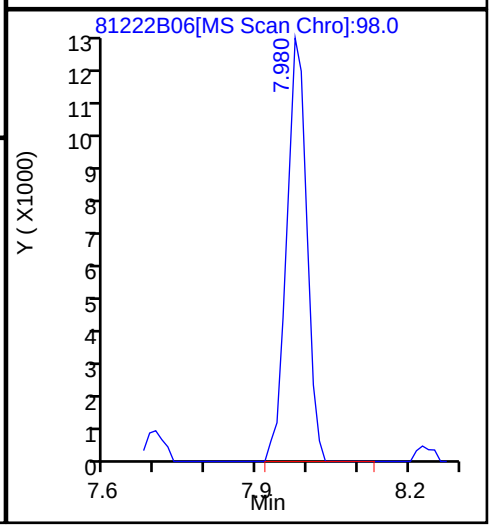












Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
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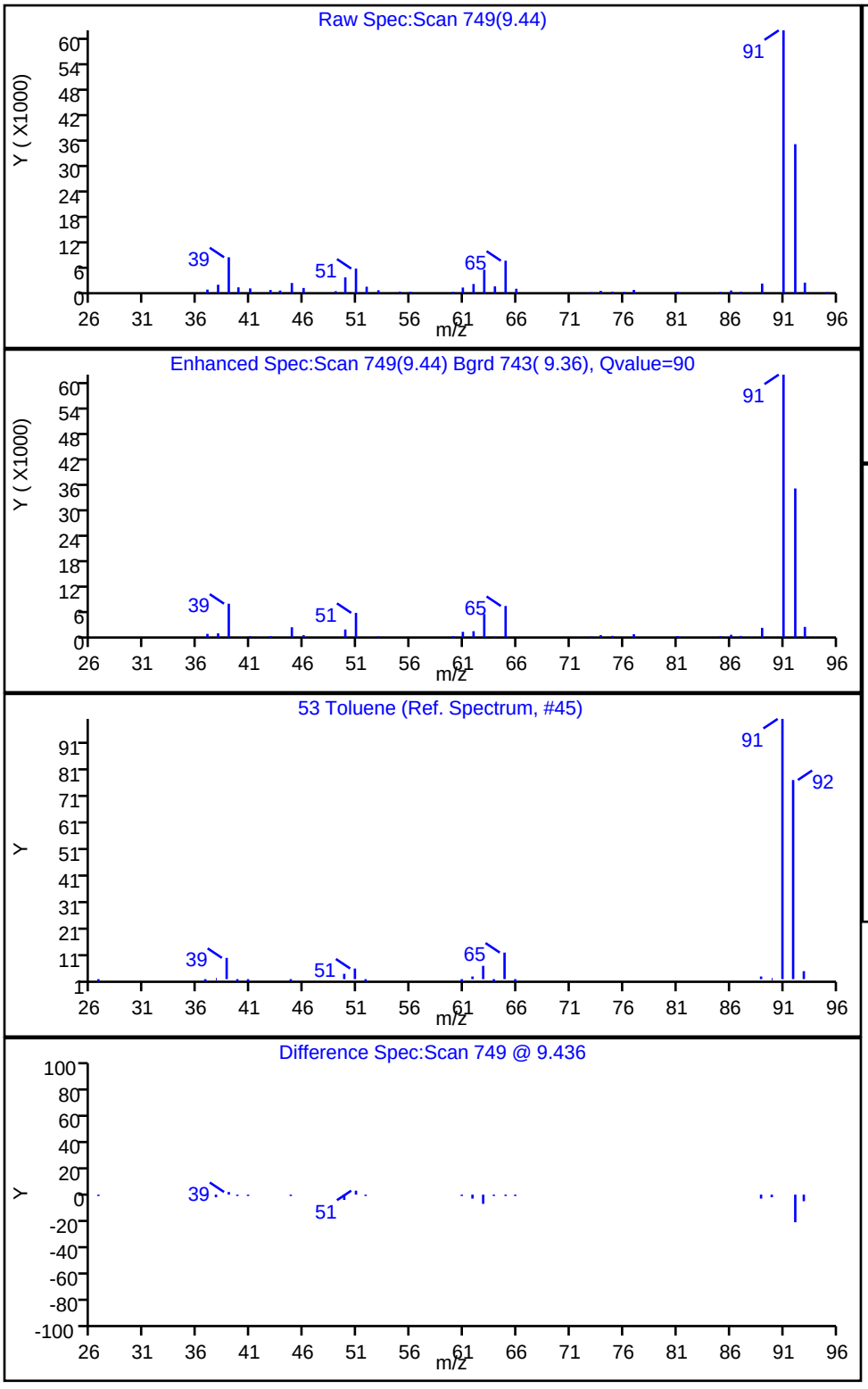
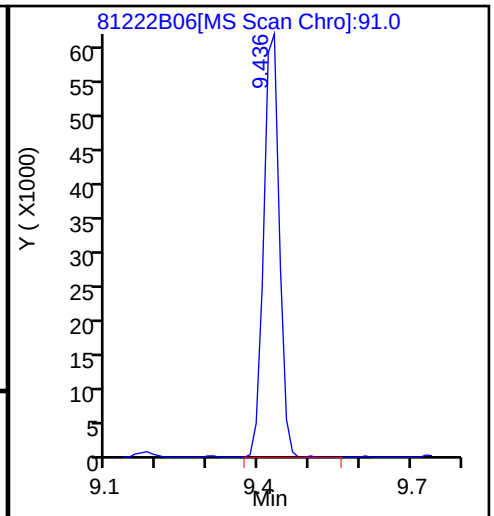
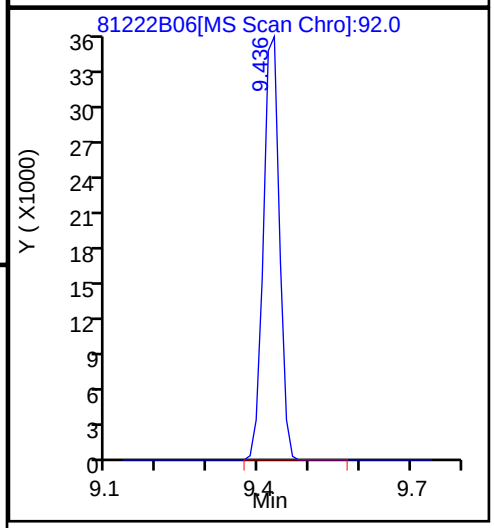
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

53 Toluene







Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

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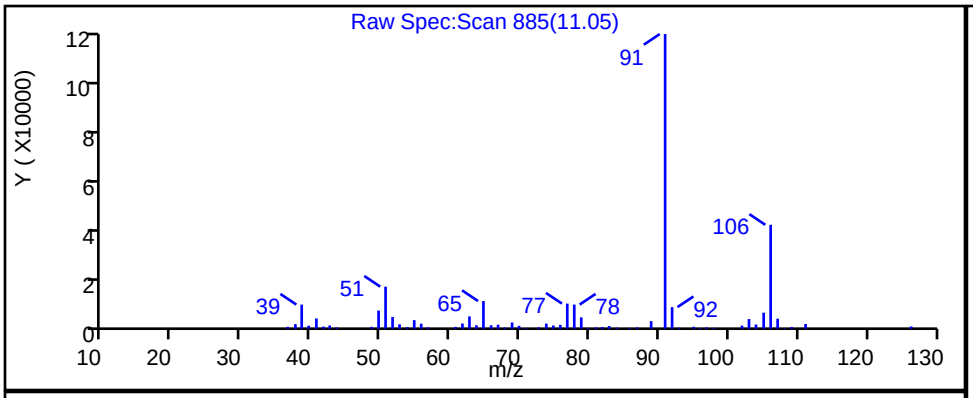
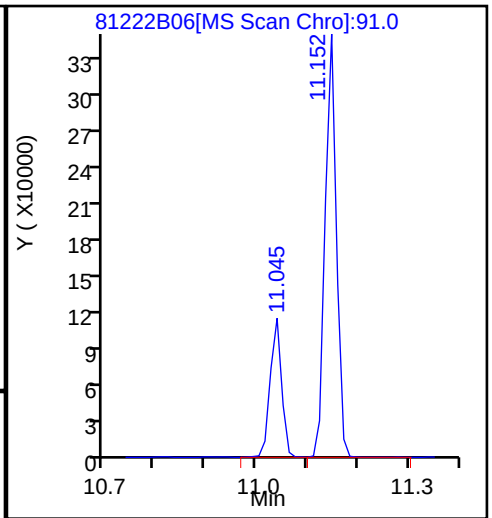
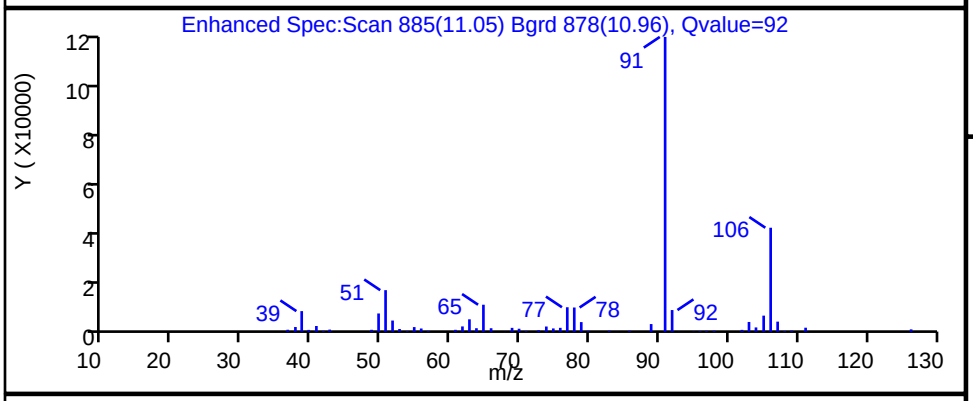
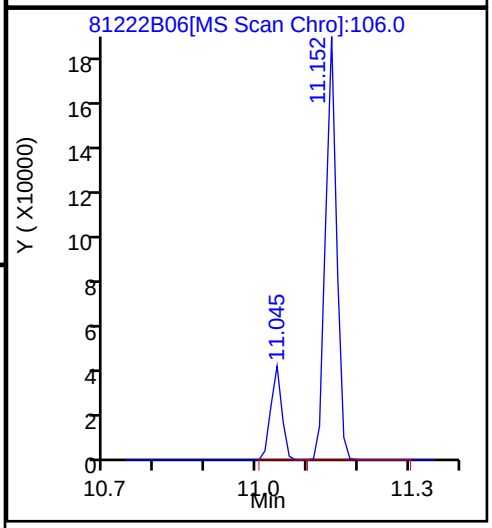
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

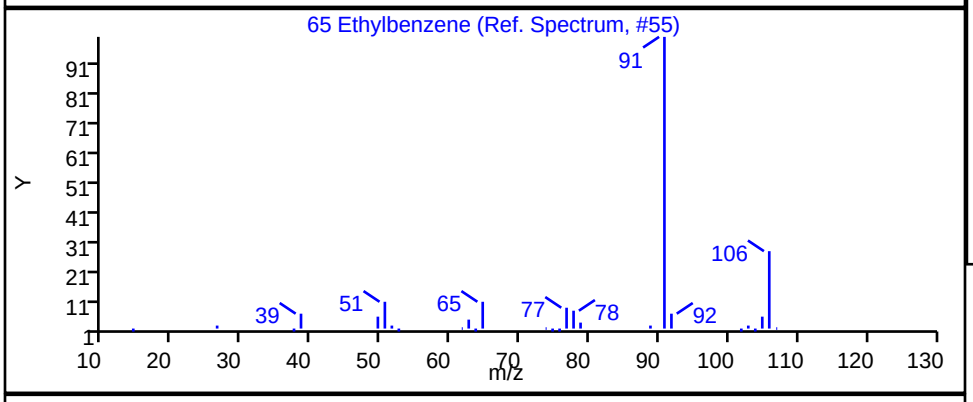
65 Ethylbenzene

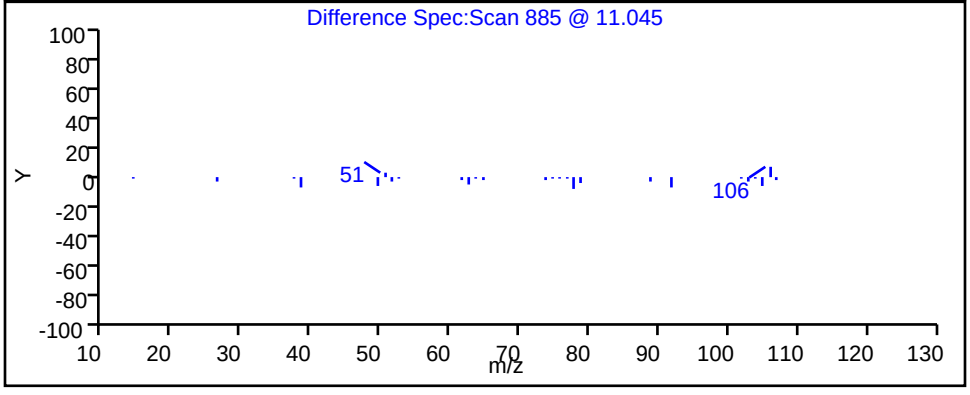












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Shealy Environmental Services

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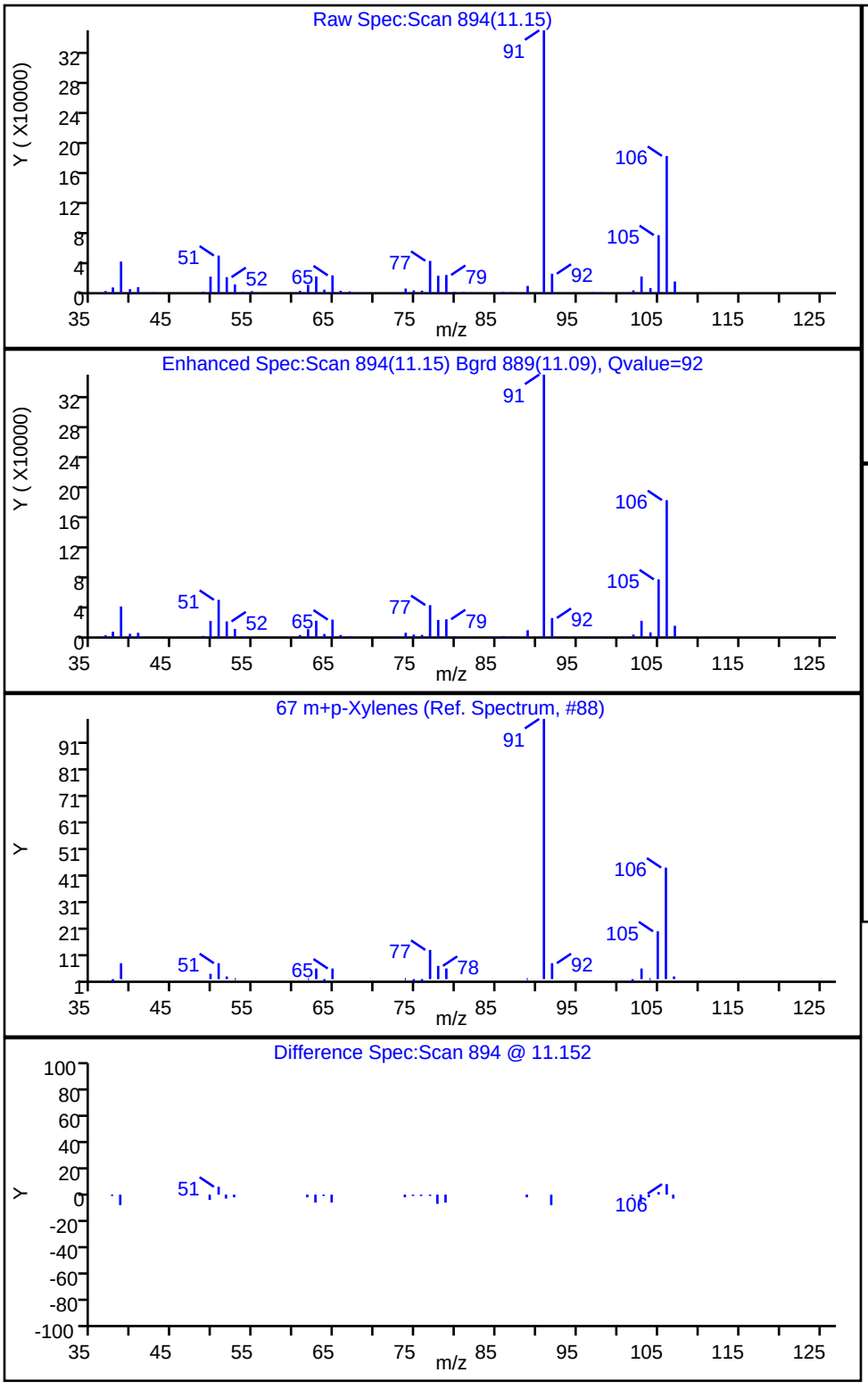
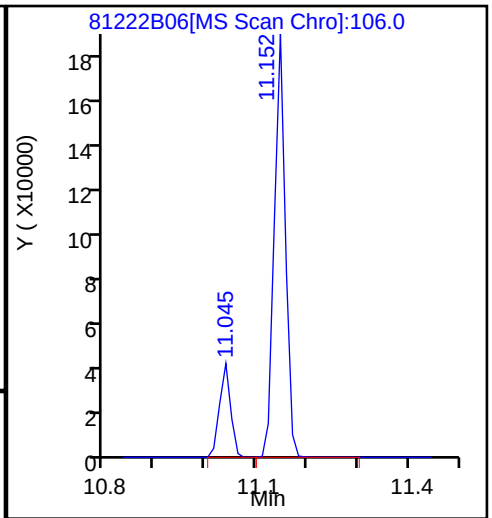
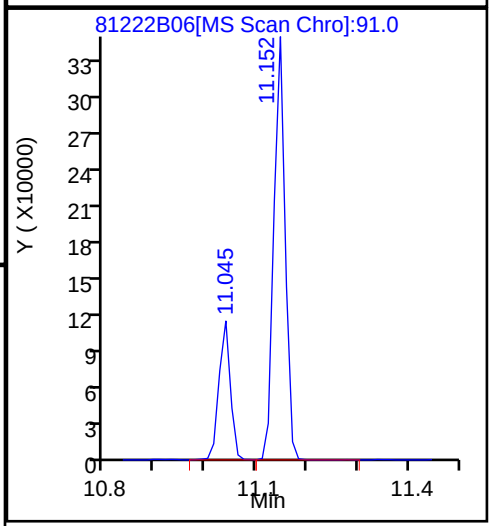
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

67 m+p-Xylenes







Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

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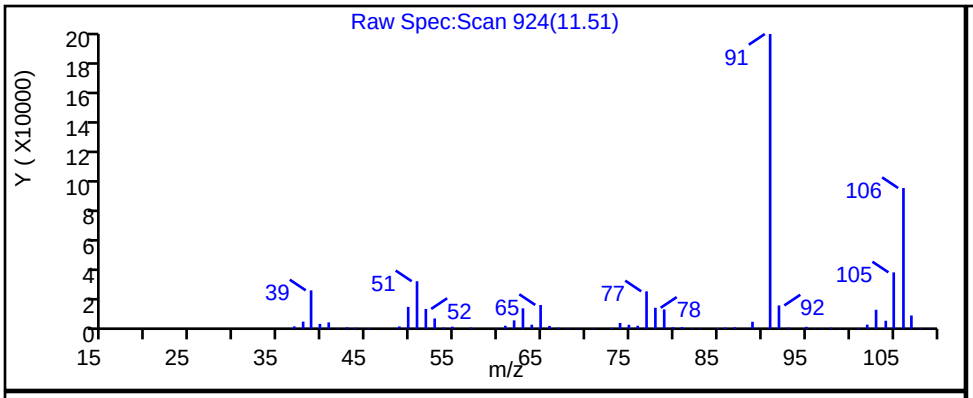
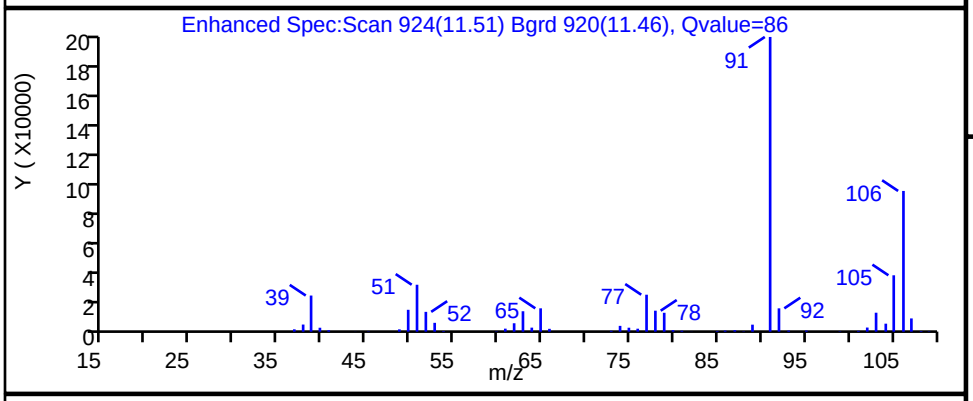
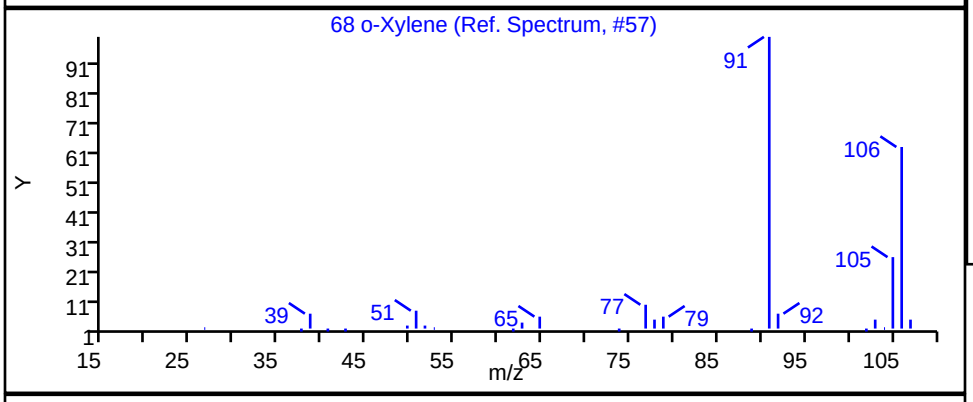
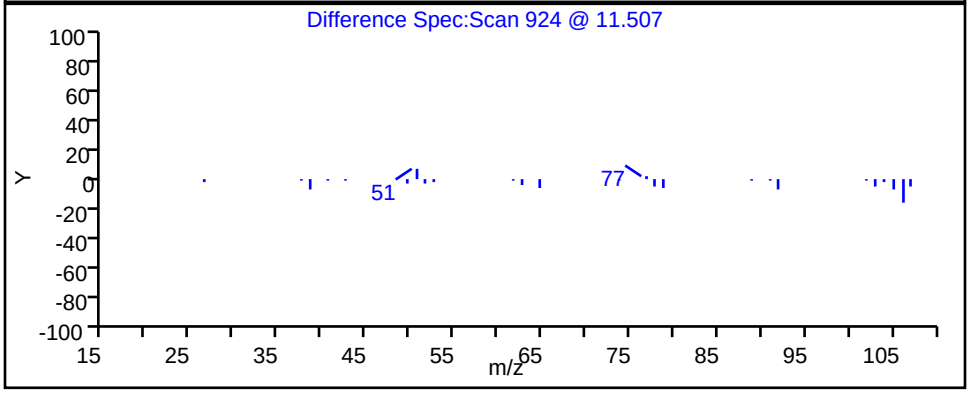
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

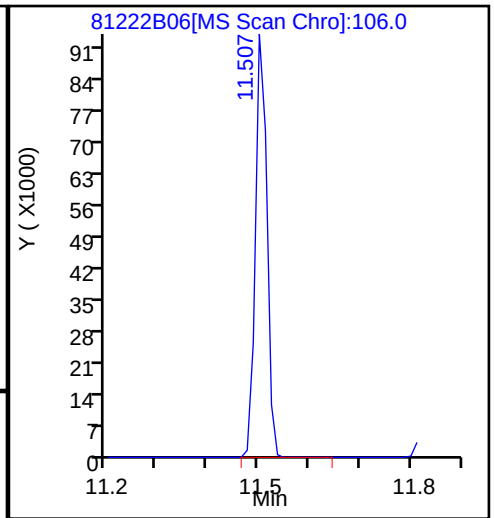
68 o-Xylene

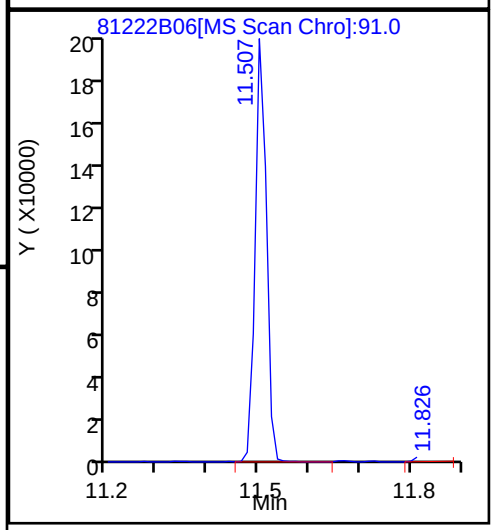












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Shealy Environmental Services

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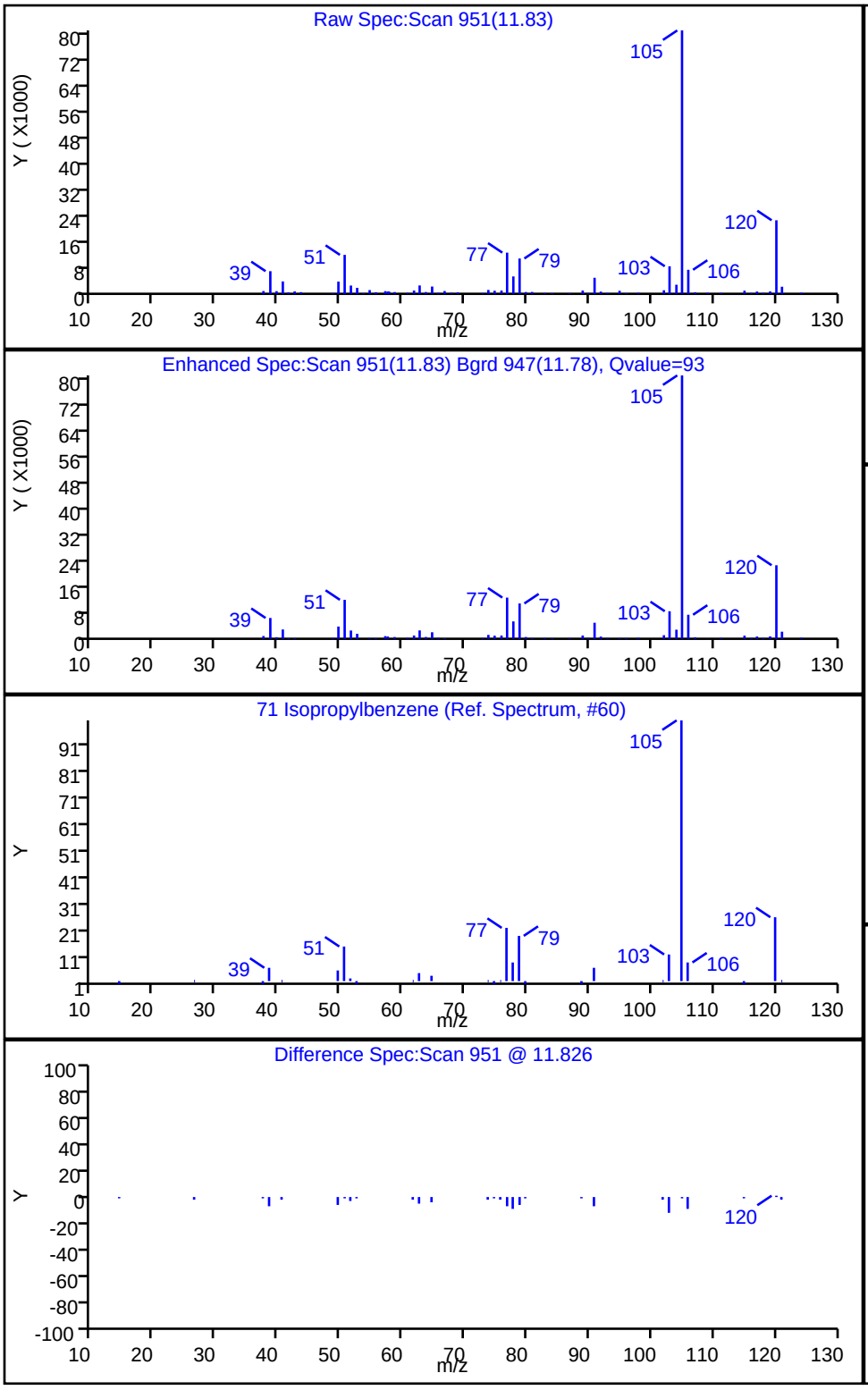
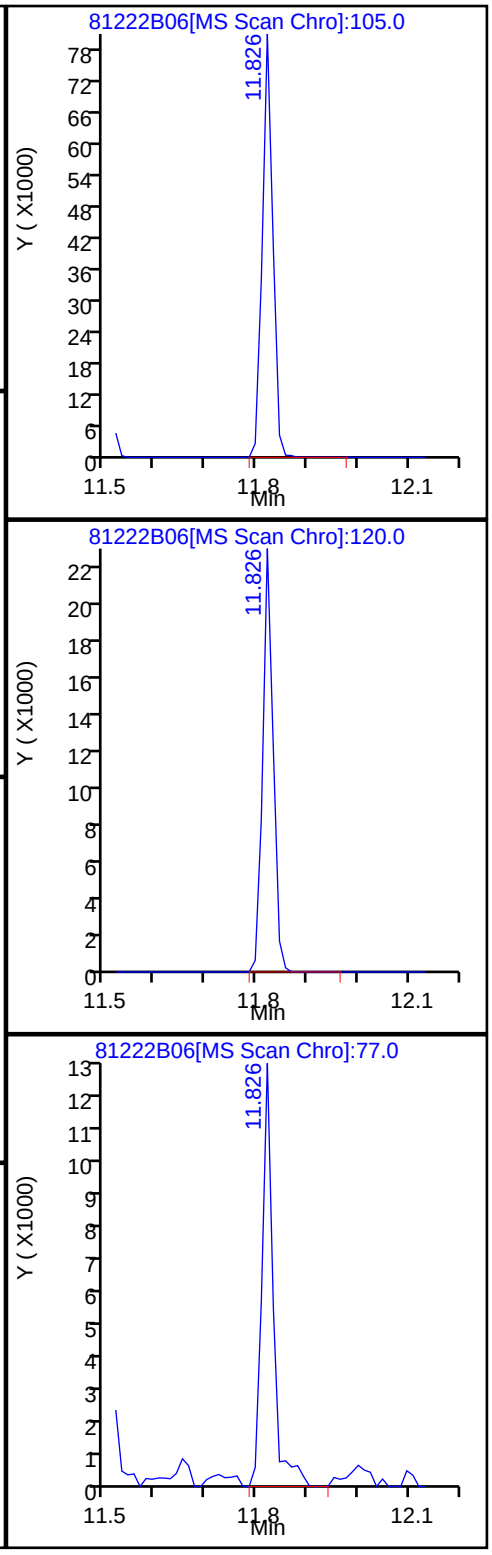
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

71 Isopropylbenzene





Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

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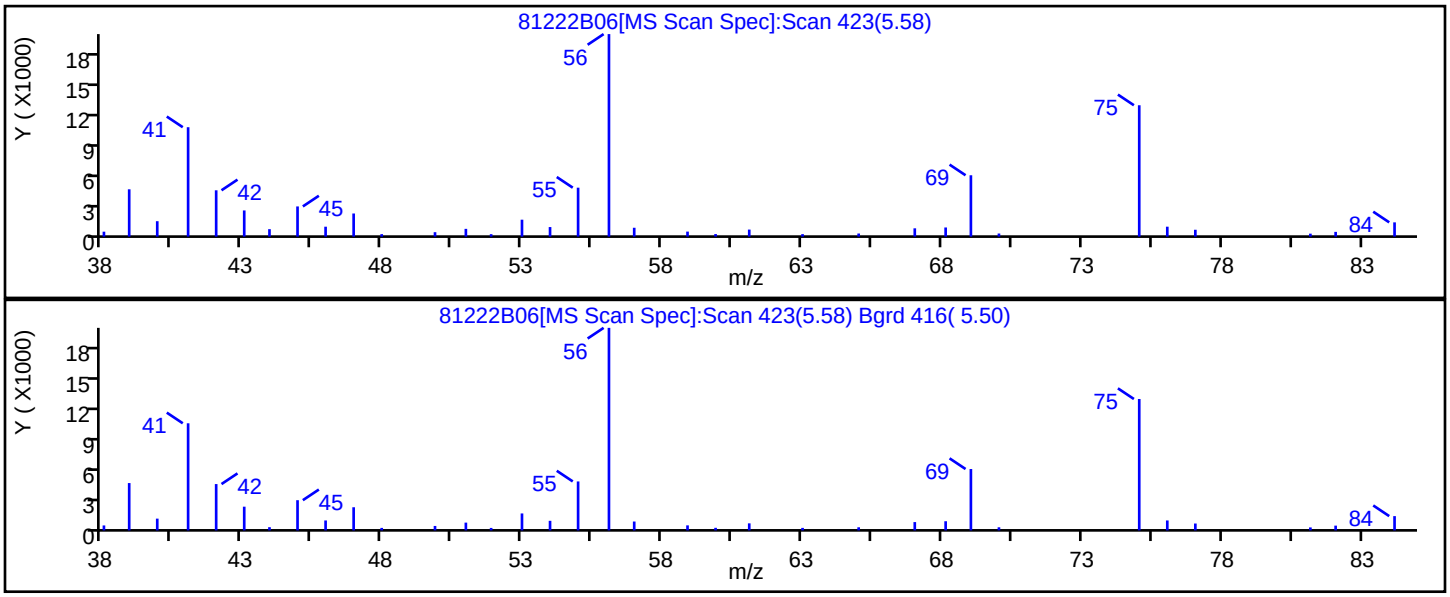
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 5.567

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.169

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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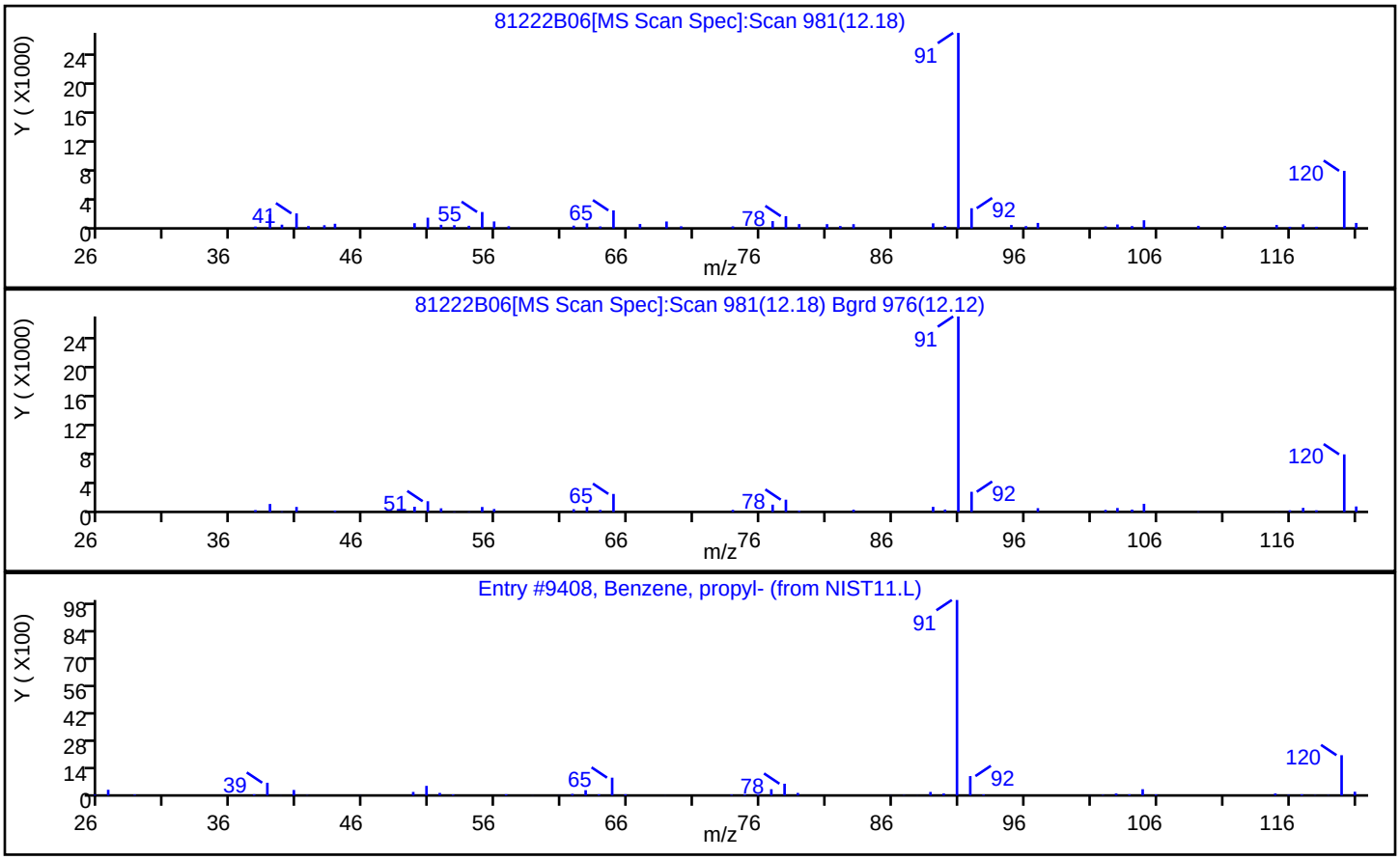


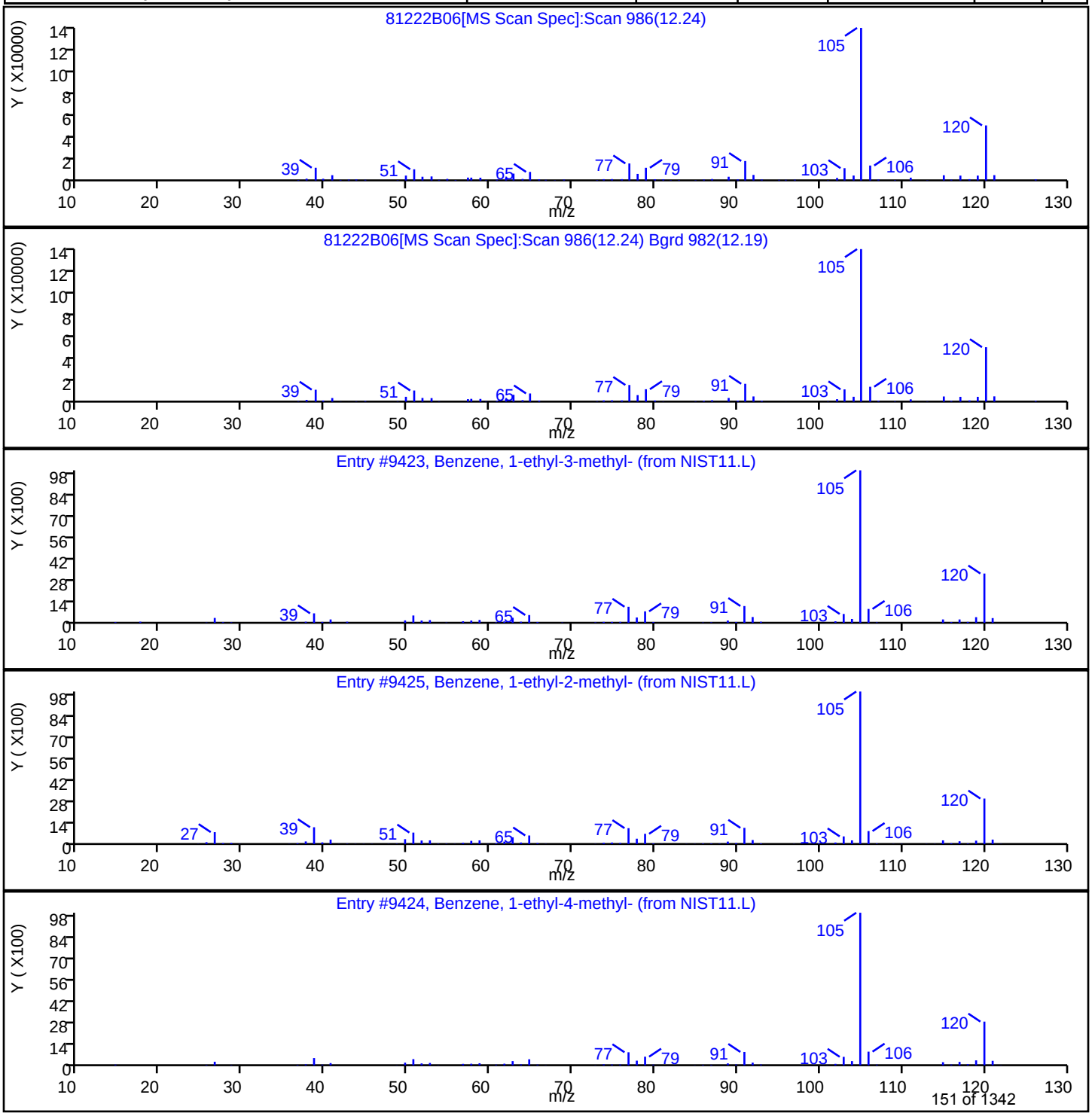
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.228

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-3-methyl-	620-14-4	NIST11	9423	C9H12	120	97
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST11	9425	C9H12	120	95
Benzene, 1-ethyl-4-methyl-	622-96-8	NIST11	9424	C9H12	120	91



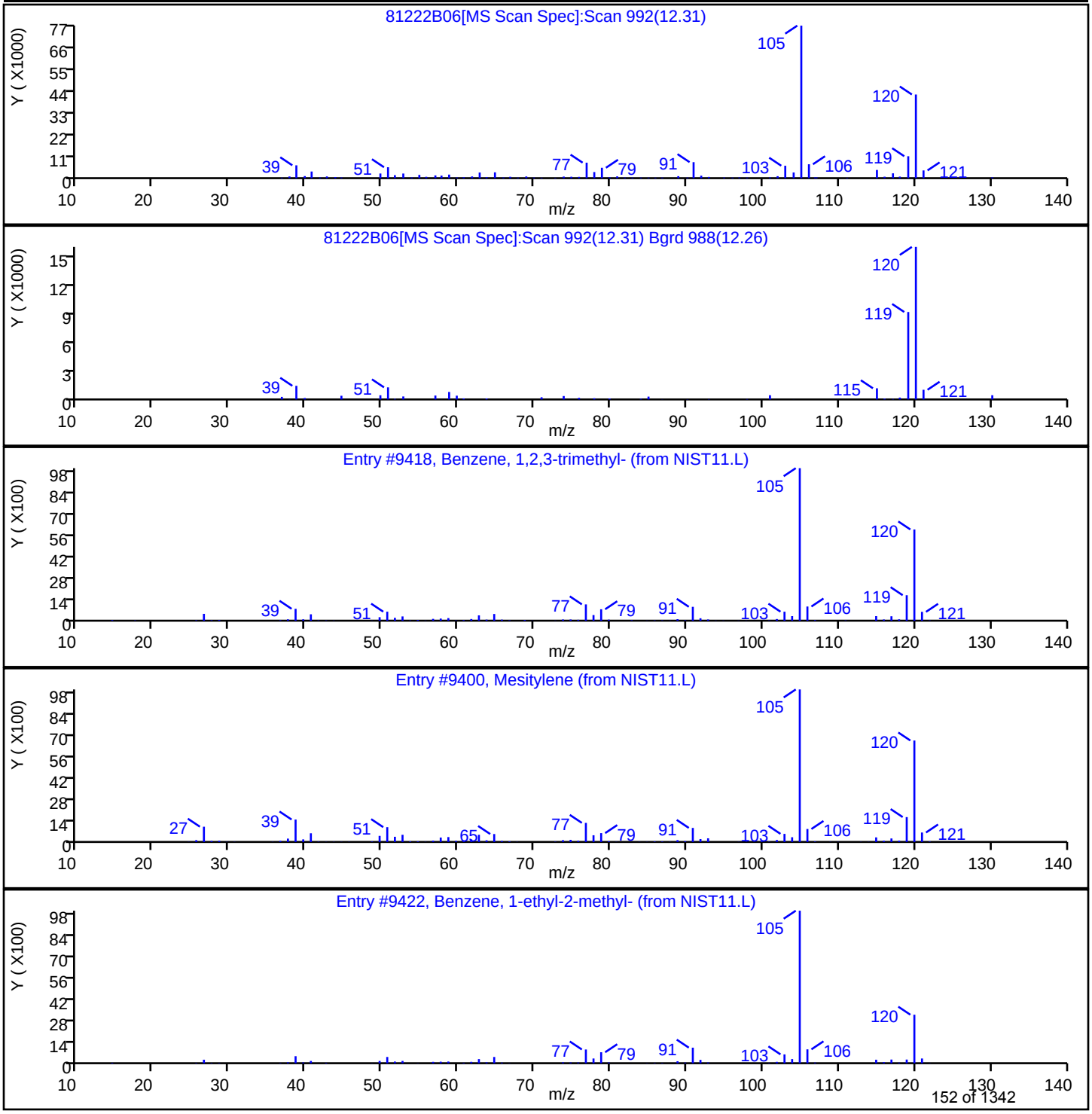
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D
Injection Date: 22-Dec-2015 12:32:30 Inst. ID: msd8.i
Client ID: F6R33DL Lab ID: QL16010-003DL
Sample Info: 8122215B.b, QL16010-003,5
Purge Vol. 25 ML Dil. Factor: 5.0
Operator: ALL
Column1: DB-624 (0.25 mm) Detector: MS Scan

TIC @ 12.299

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11	9418	C9H12	120	95
Mesitylene	108-67-8	NIST11	9400	C9H12	120	95
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST11	9422	C9H12	120	94



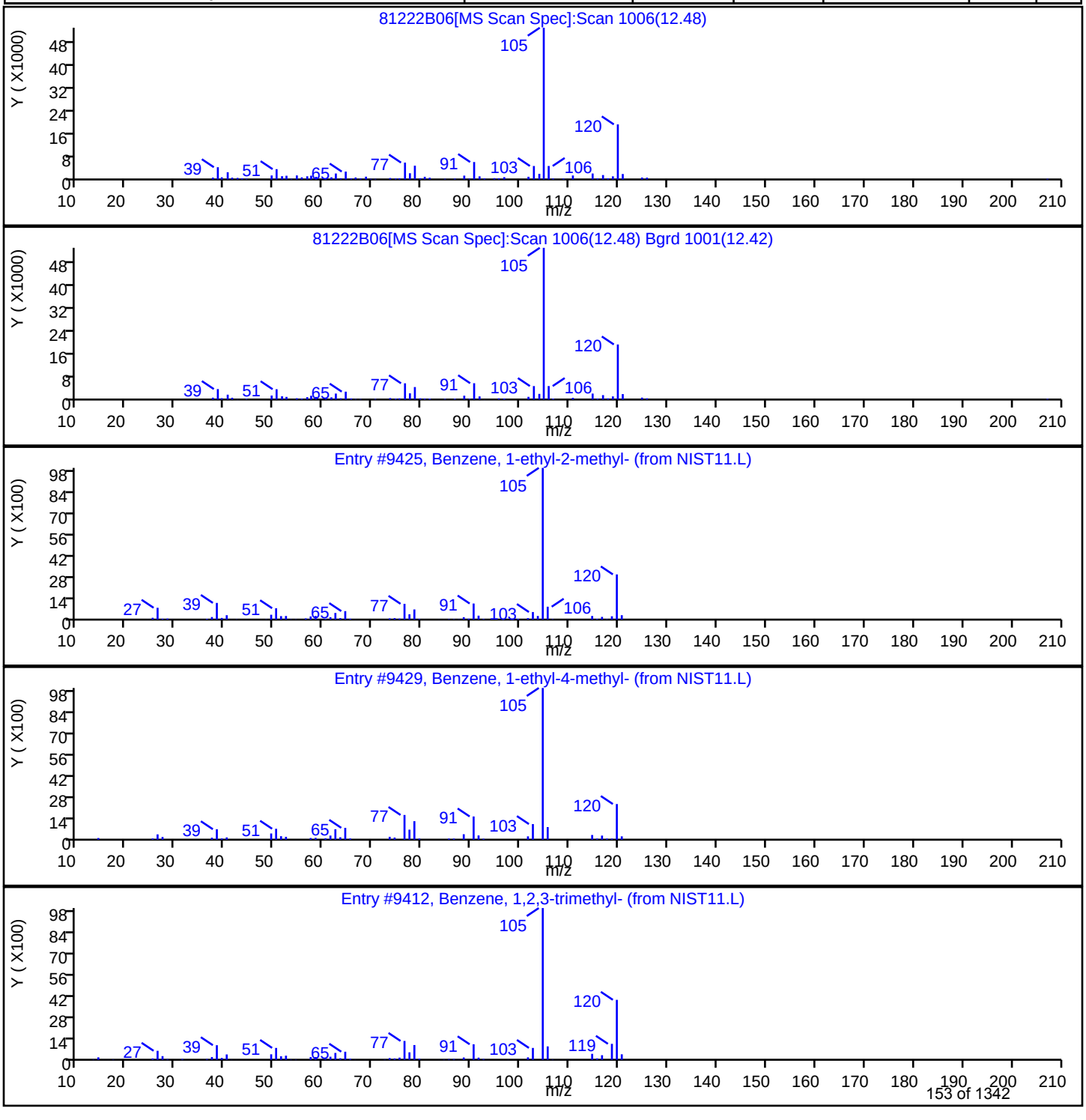
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.465

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2-methyl-	611-14-3	NIST11	9425	C9H12	120	95
Benzene, 1-ethyl-4-methyl-	622-96-8	NIST11	9429	C9H12	120	95
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11	9412	C9H12	120	94



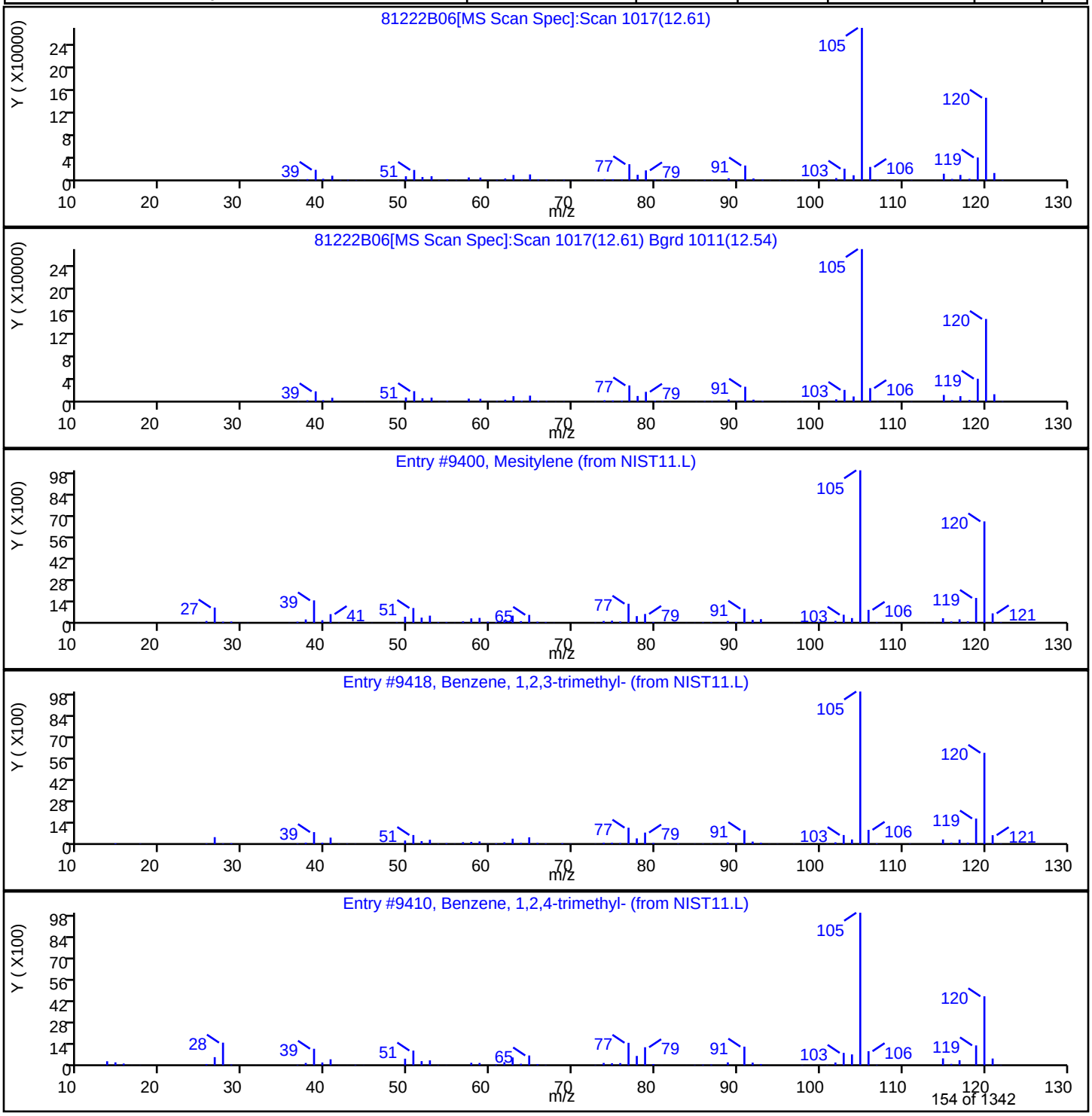
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.595

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Mesitylene	108-67-8	NIST11	9400	C9H12	120	95
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11	9418	C9H12	120	95
Benzene, 1,2,4-trimethyl-	95-63-6	NIST11	9410	C9H12	120	94



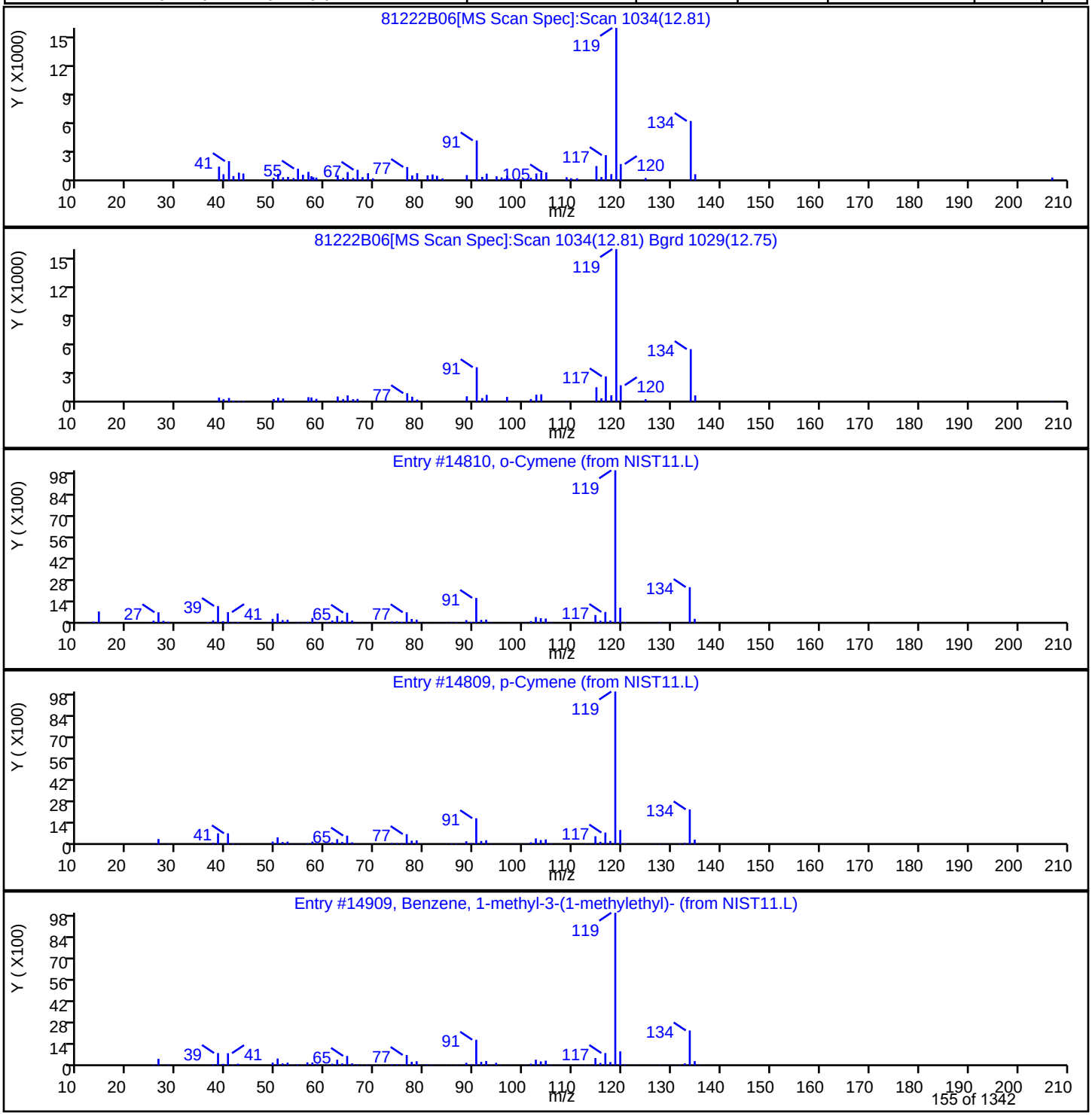
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.796

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
o-Cymene	527-84-4	NIST11	14810	C10H14	134	95
p-Cymene	99-87-6	NIST11	14809	C10H14	134	95
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST11	14909	C10H14	134	94



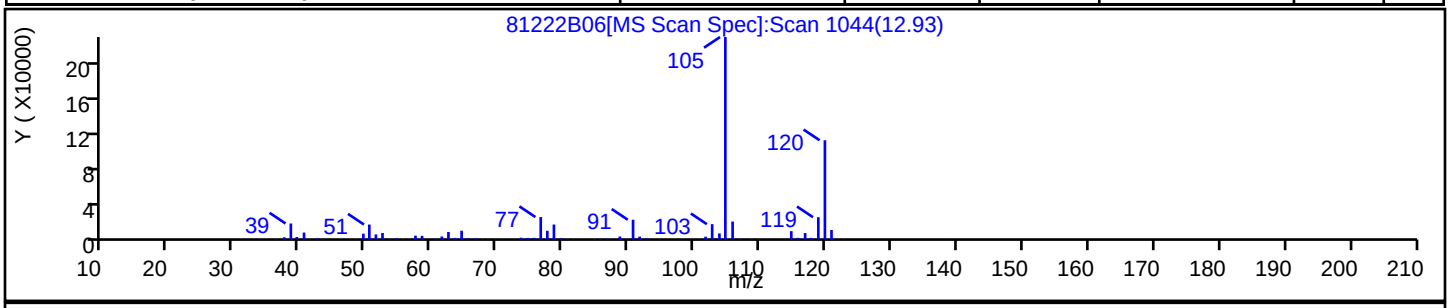
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

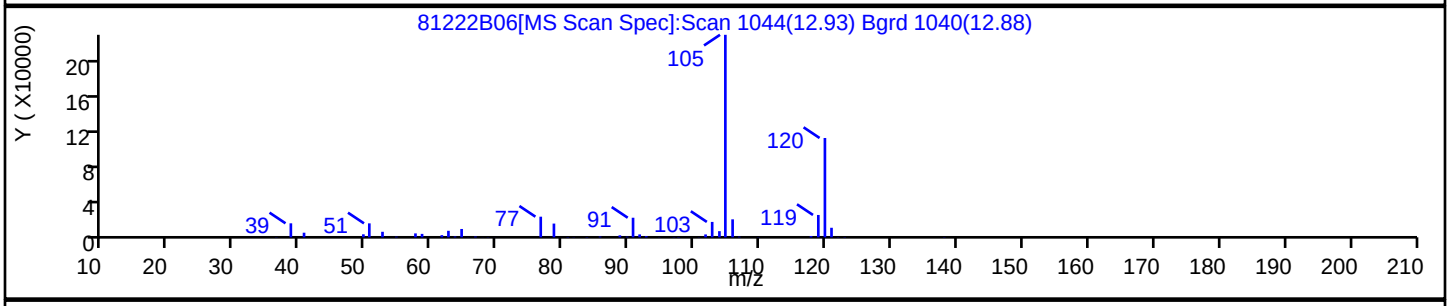
Shealy Environmental Services

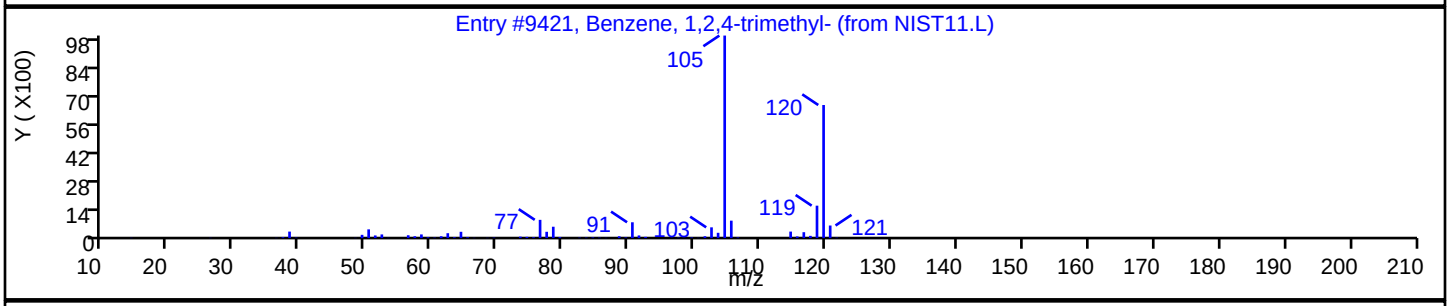
Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

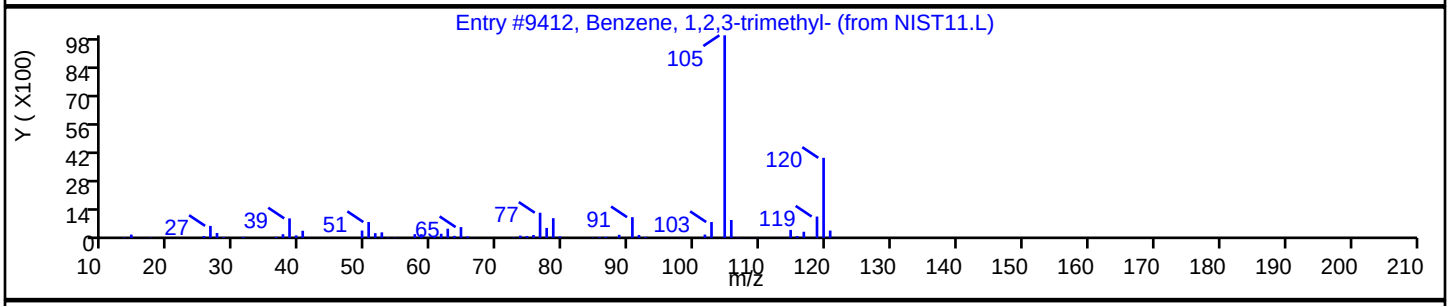
TIC @ 12.915

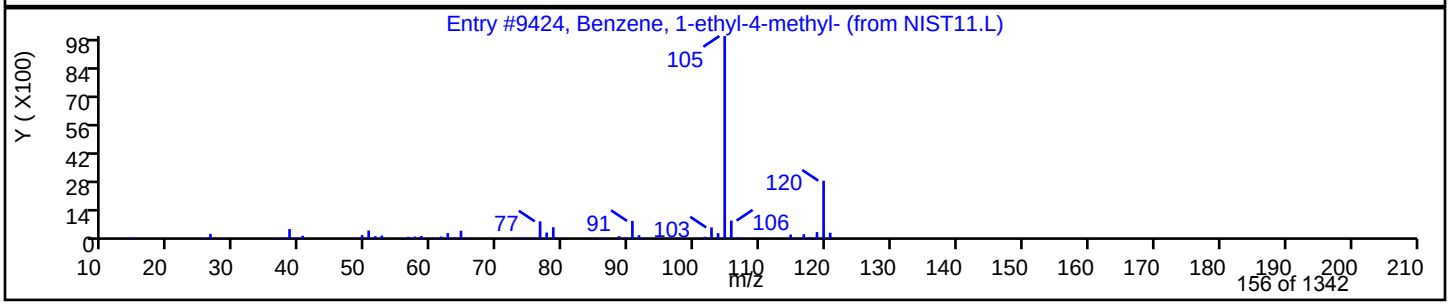
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,4-trimethyl-	95-63-6	NIST11	9421	C9H12	120	95
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11	9412	C9H12	120	95
Benzene, 1-ethyl-4-methyl-	622-96-8	NIST11	9424	C9H12	120	93











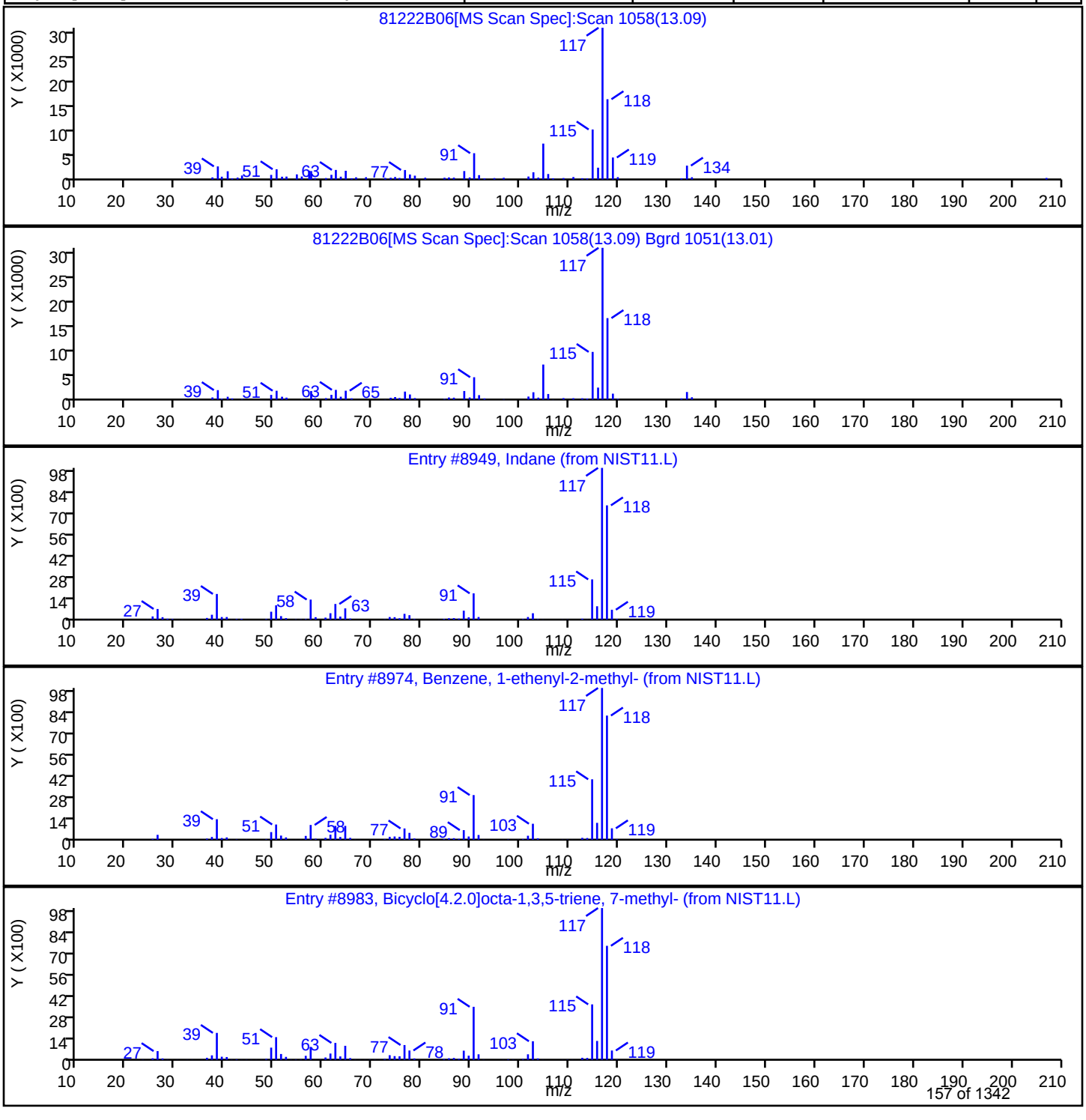
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.080

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Indane	496-11-7	NIST11	8949	C9H10	118	93
Benzene, 1-ethenyl-2-methyl-	611-15-4	NIST11	8974	C9H10	118	87
Bicyclo[4.2.0]octa-1,3,5-triene, 7-methy	55337-80-9	NIST11	8983	C9H10	118	86



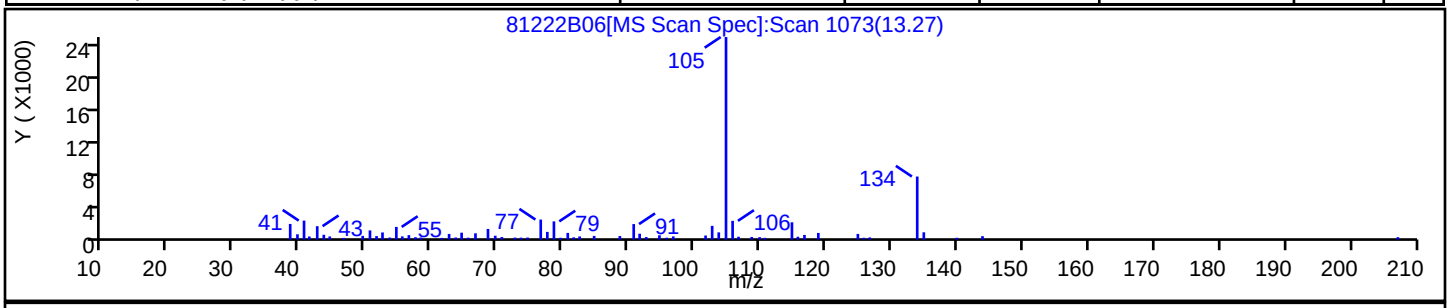
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

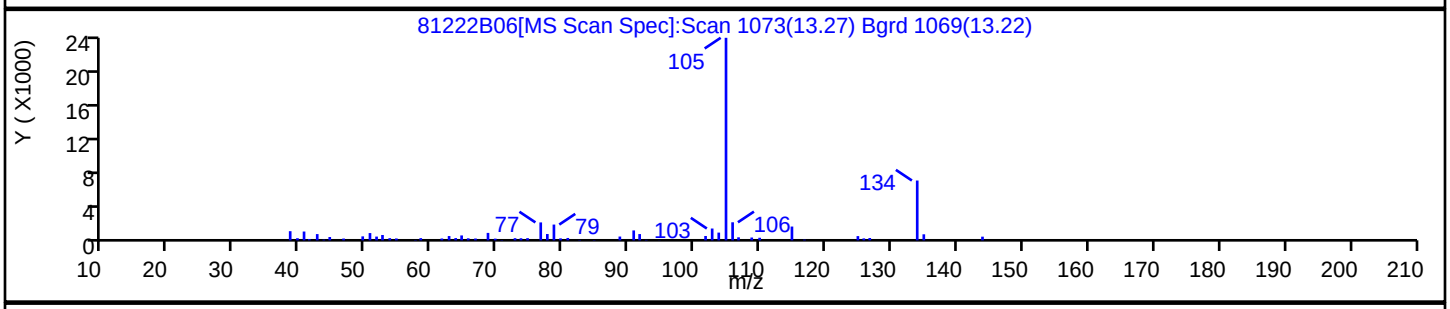
Shealy Environmental Services

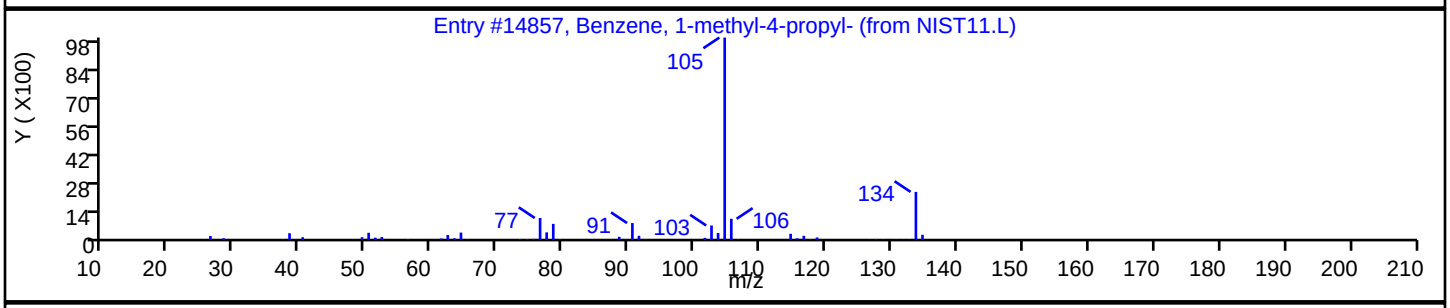
Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

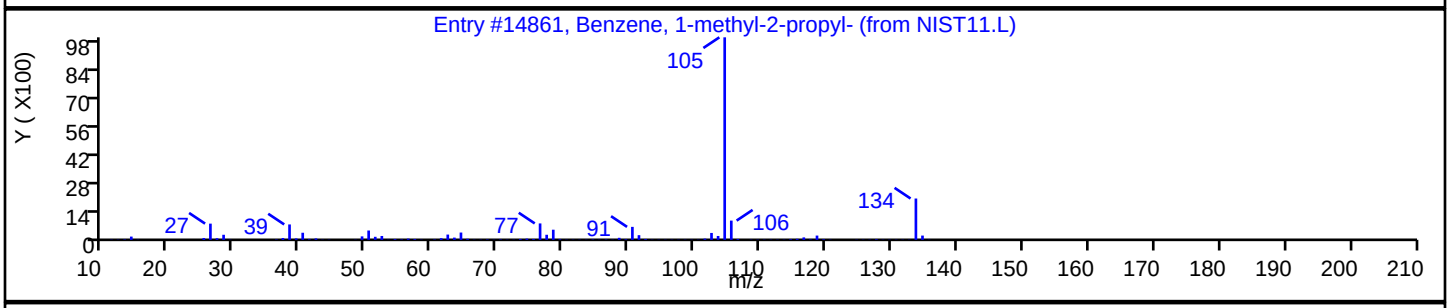
TIC @ 13.258

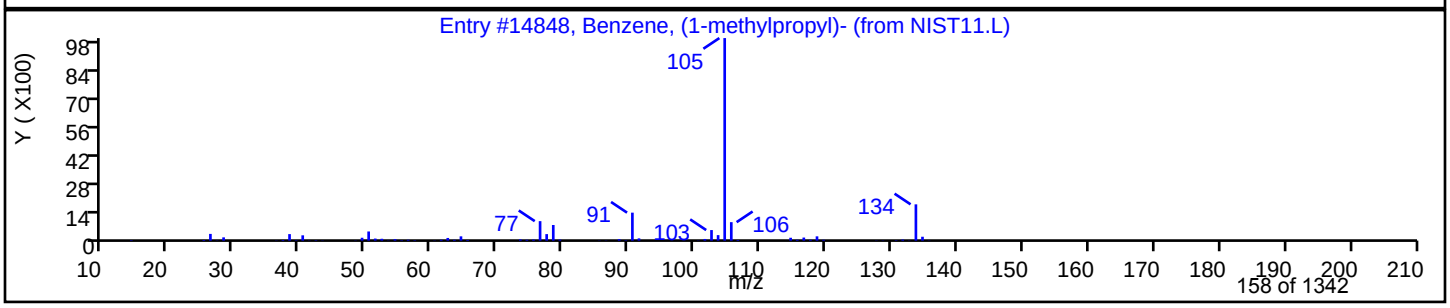
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-methyl-4-propyl-	1074-55-1	NIST11	14857	C10H14	134	94
Benzene, 1-methyl-2-propyl-	1074-17-5	NIST11	14861	C10H14	134	93
Benzene, (1-methylpropyl)-	135-98-8	NIST11	14848	C10H14	134	90











Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D

Injection Date: 22-Dec-2015 12:32:30 Inst. ID: msd8.i

Client ID: F6R33DL Lab ID: QL16010-003DL

Sample Info: 8122215B.b, QL16010-003,5

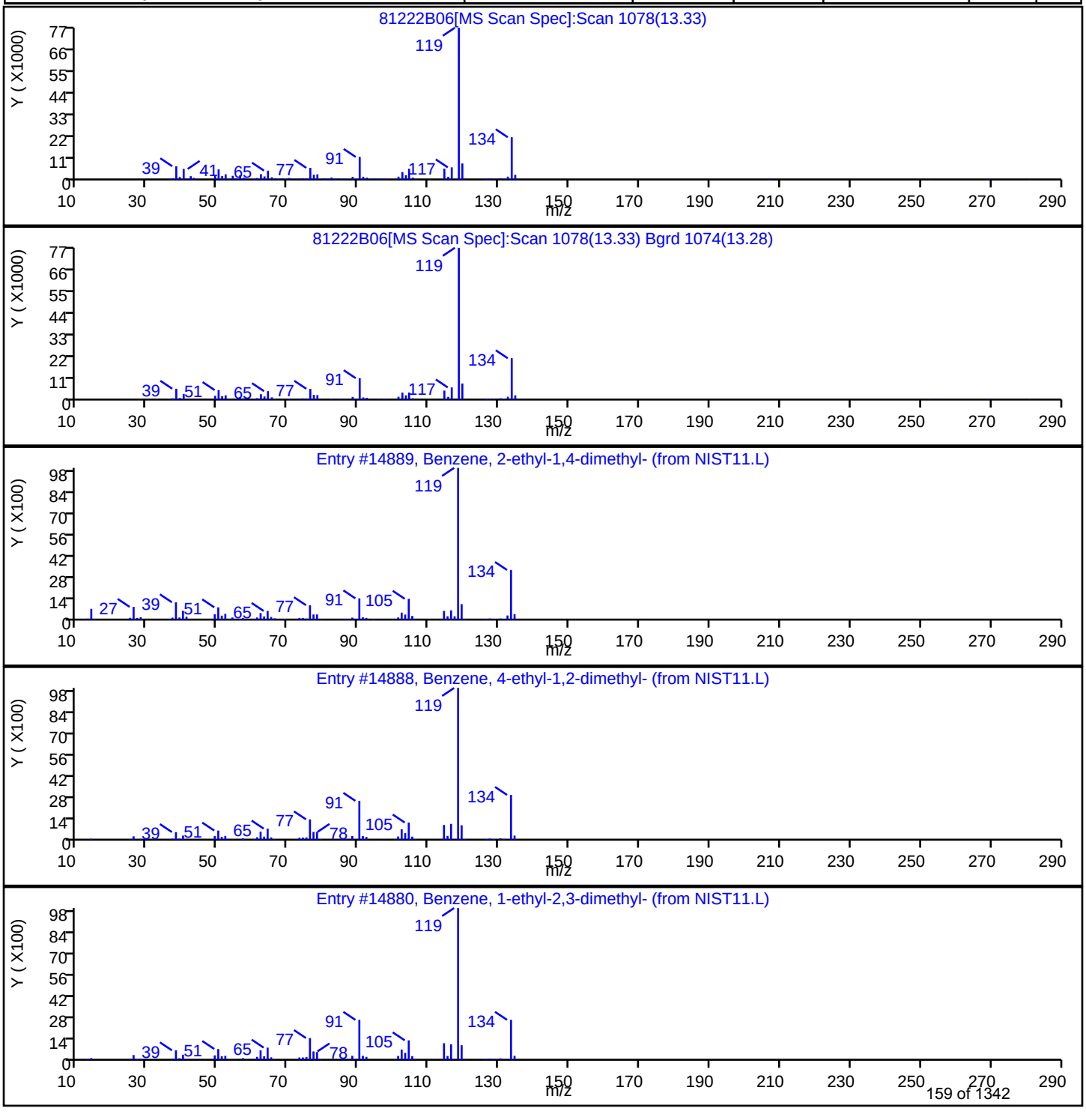
Purge Vol. 25 ML Dil. Factor: 5.0

Operator: ALL

Column1: DB-624 (0.25 mm) Detector: MS Scan

TIC @ 13.317

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NIST11	14889	C10H14	134	97
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST11	14888	C10H14	134	96
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST11	14880	C10H14	134	96



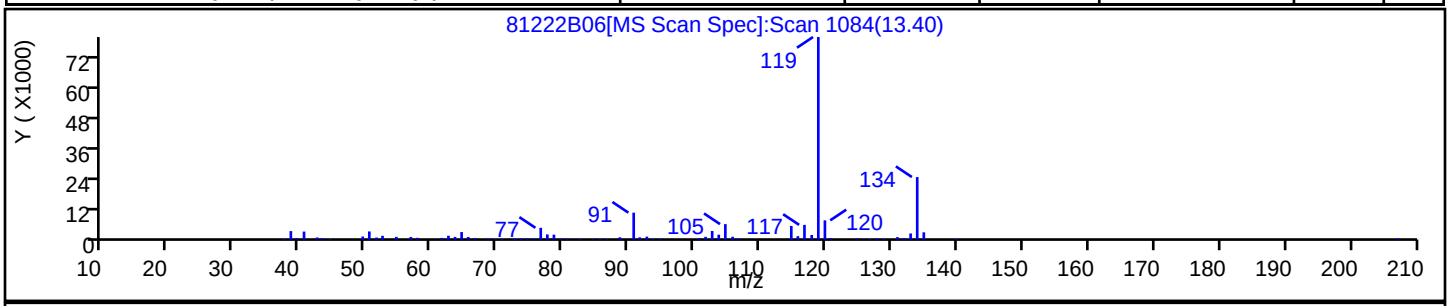
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

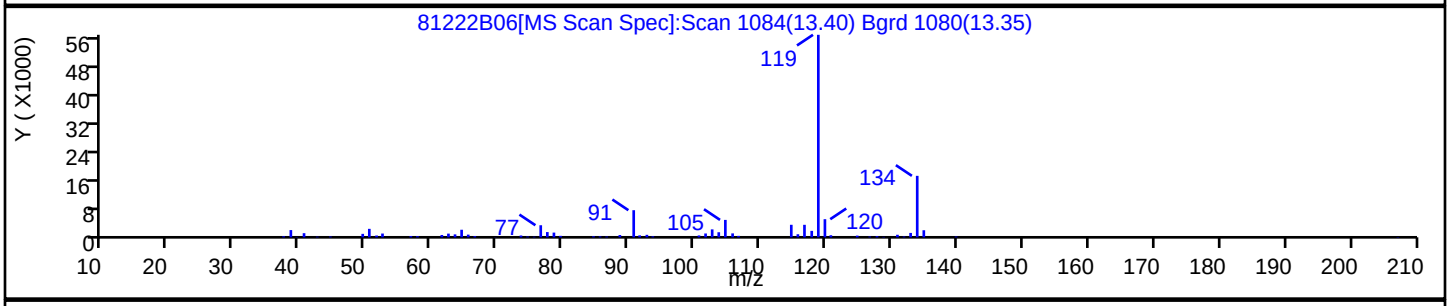
Shealy Environmental Services

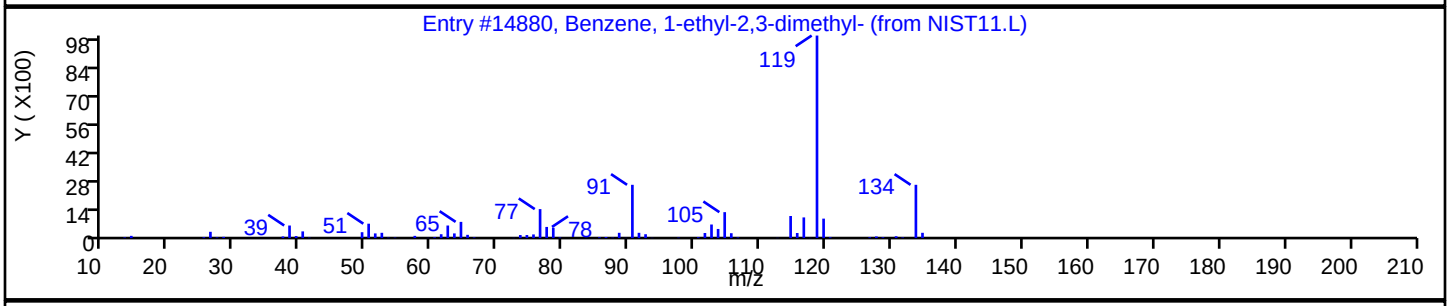
Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

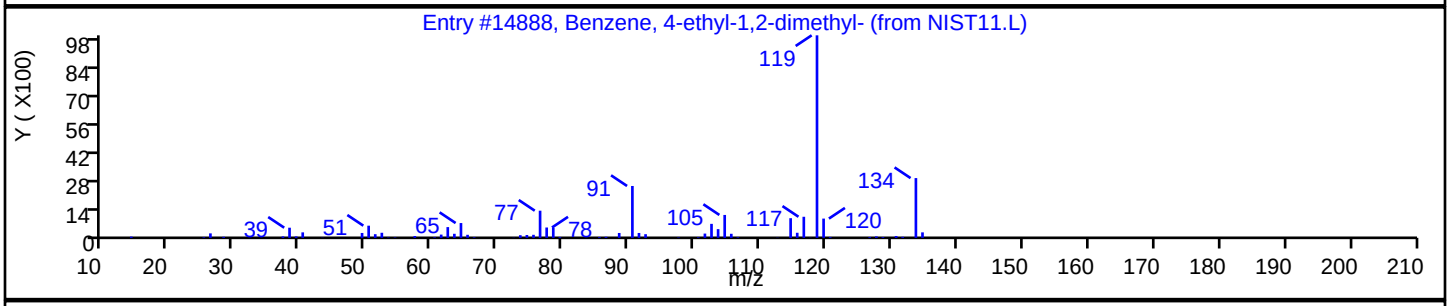
TIC @ 13.388

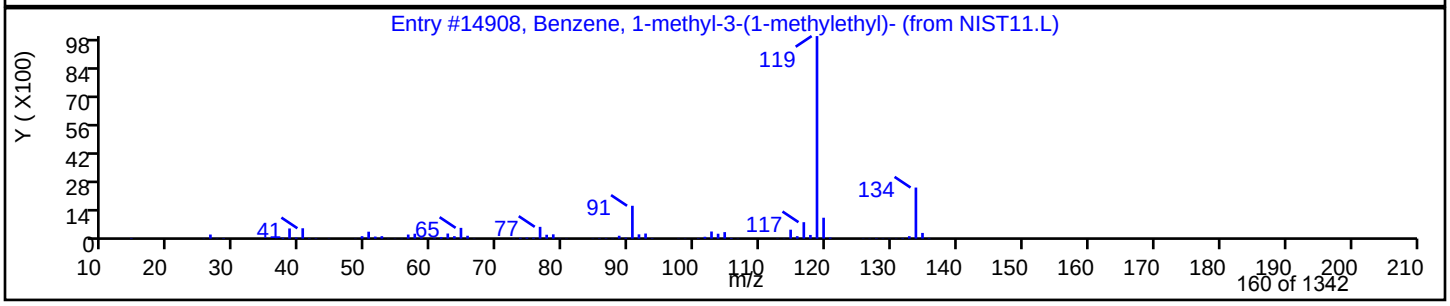
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NIST11	14880	C10H14	134	96
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NIST11	14888	C10H14	134	95
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NIST11	14908	C10H14	134	94











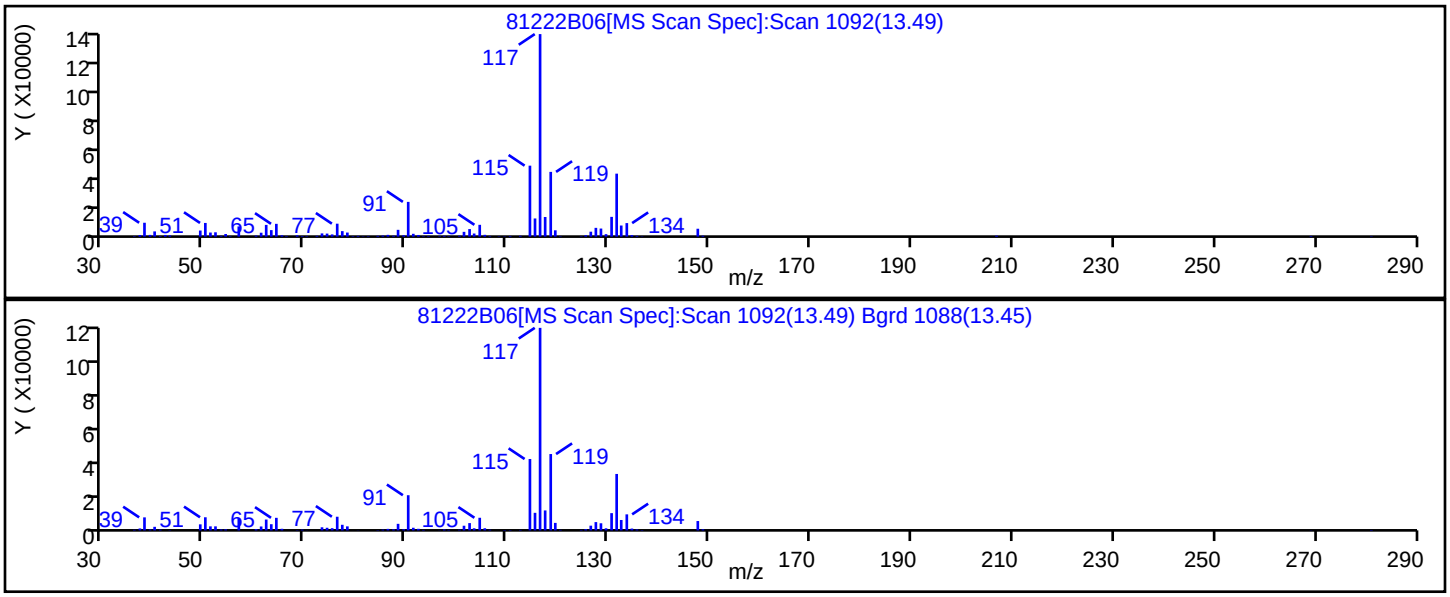
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.483

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



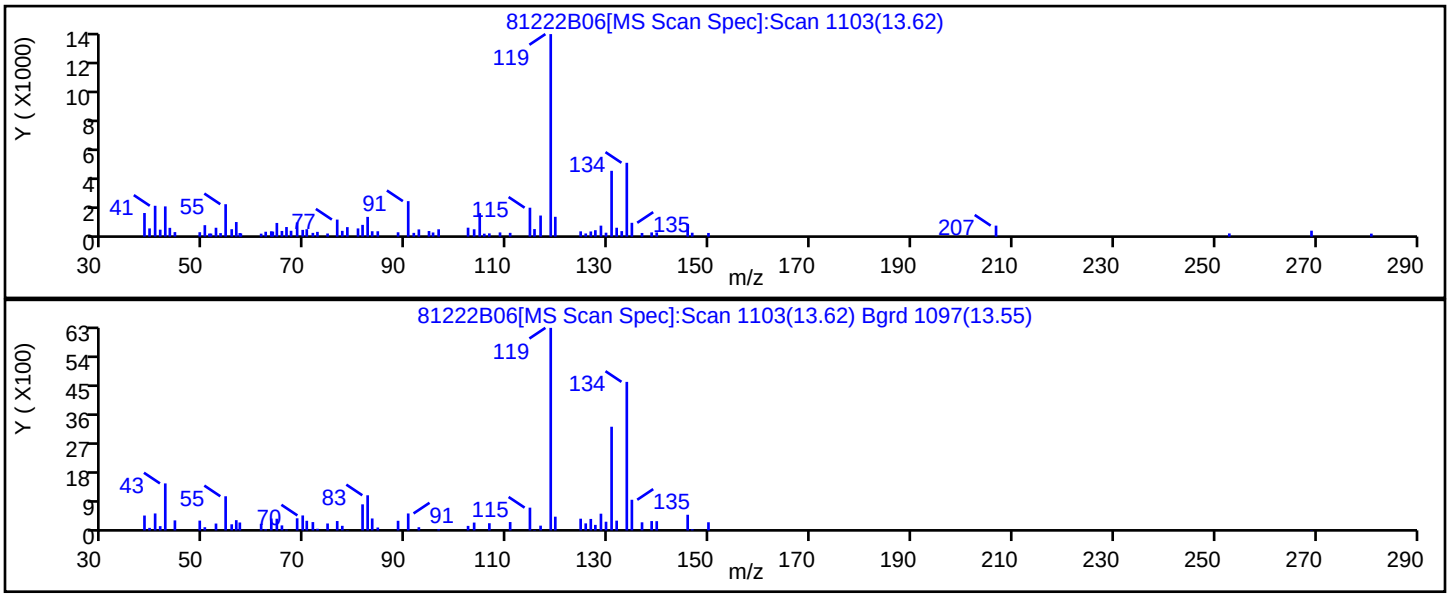
Report Date: 05-Jan-2016 09:42:44 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.613

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



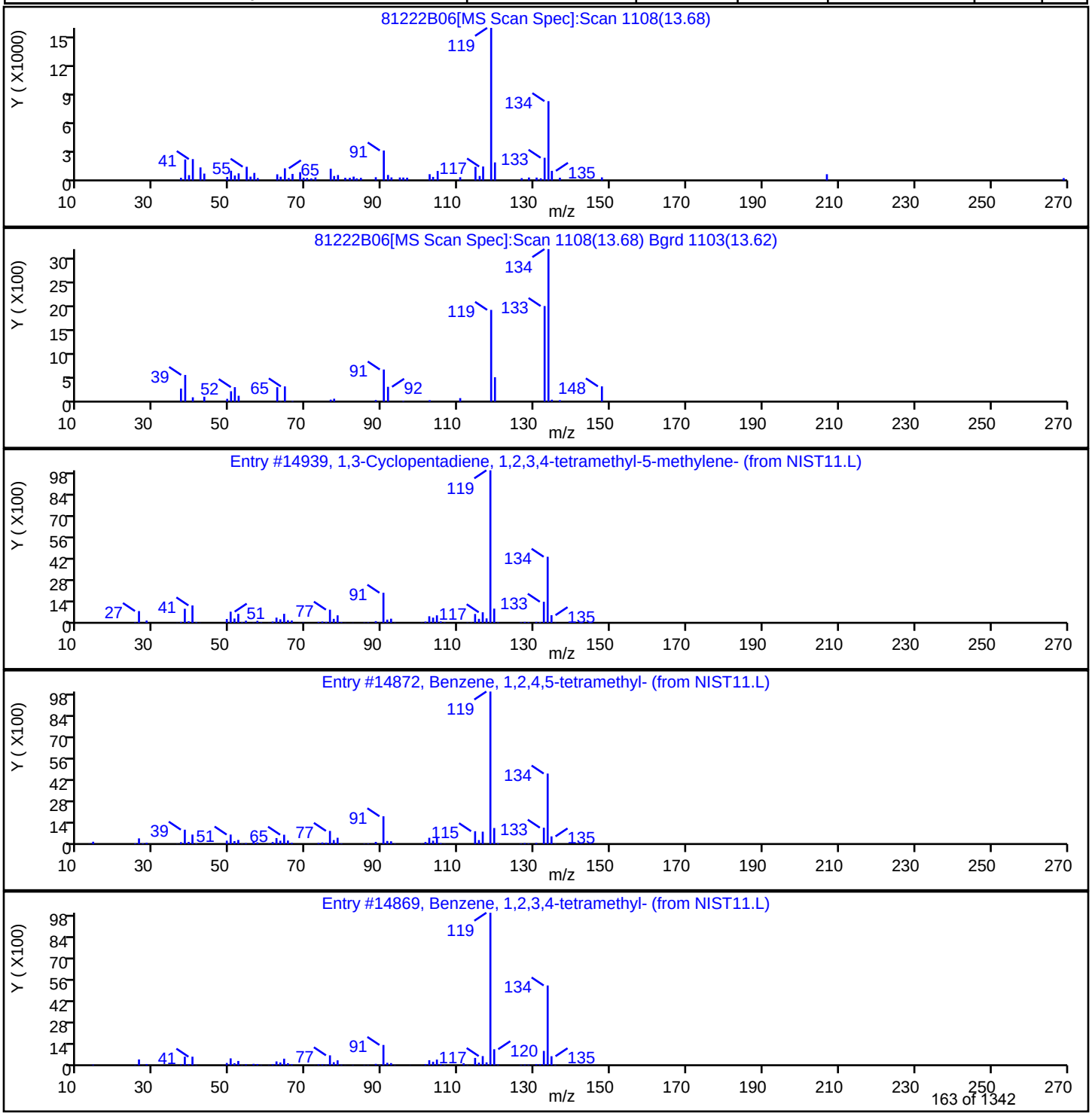
Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.672

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1,3-Cyclopentadiene, 1,2,3,4-tetramethyl	76089-59-3	NIST11	14939	C10H14	134	97
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST11	14872	C10H14	134	96
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST11	14869	C10H14	134	95



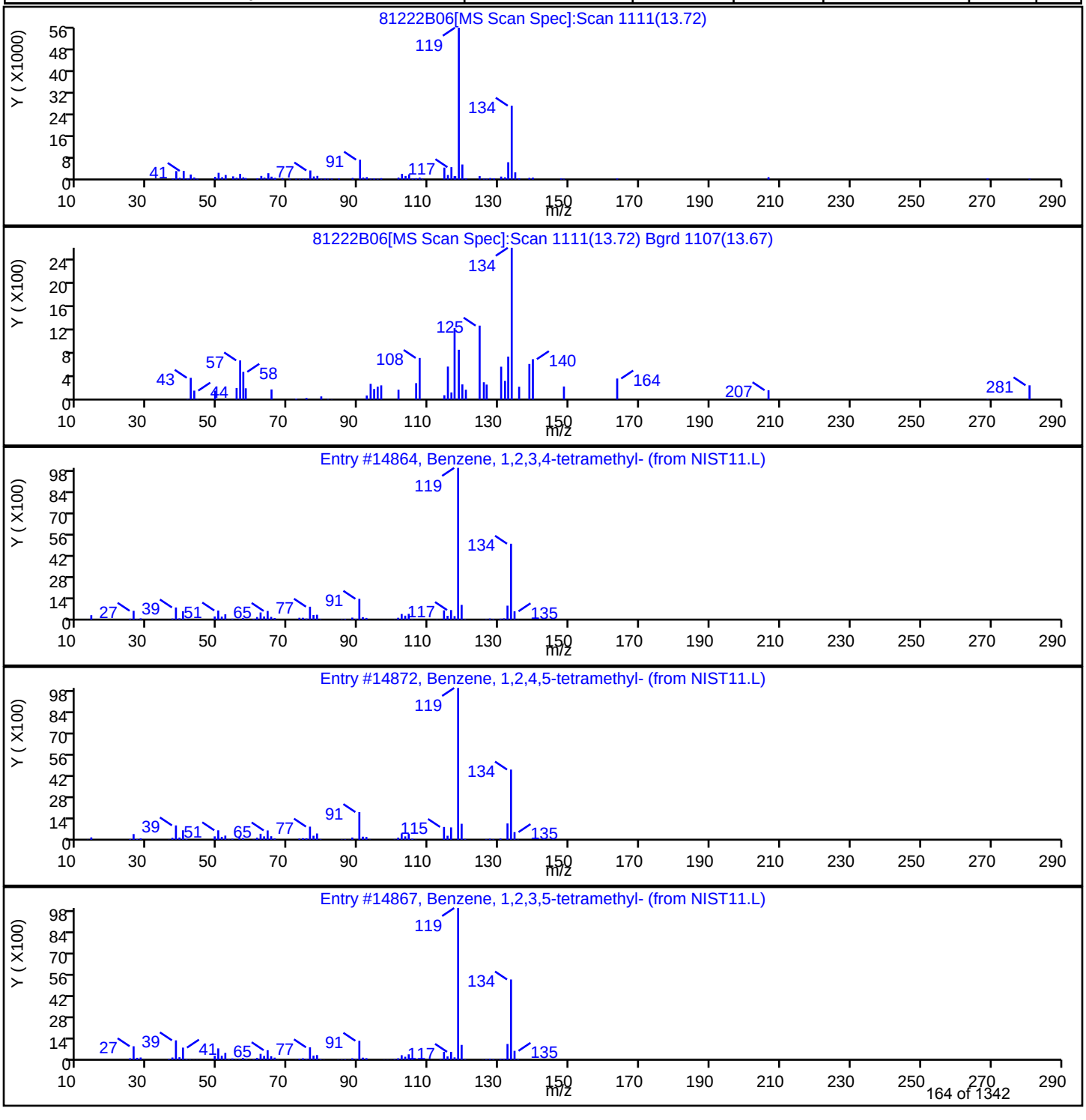
Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.708

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST11	14864	C10H14	134	97
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST11	14872	C10H14	134	96
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NIST11	14867	C10H14	134	94



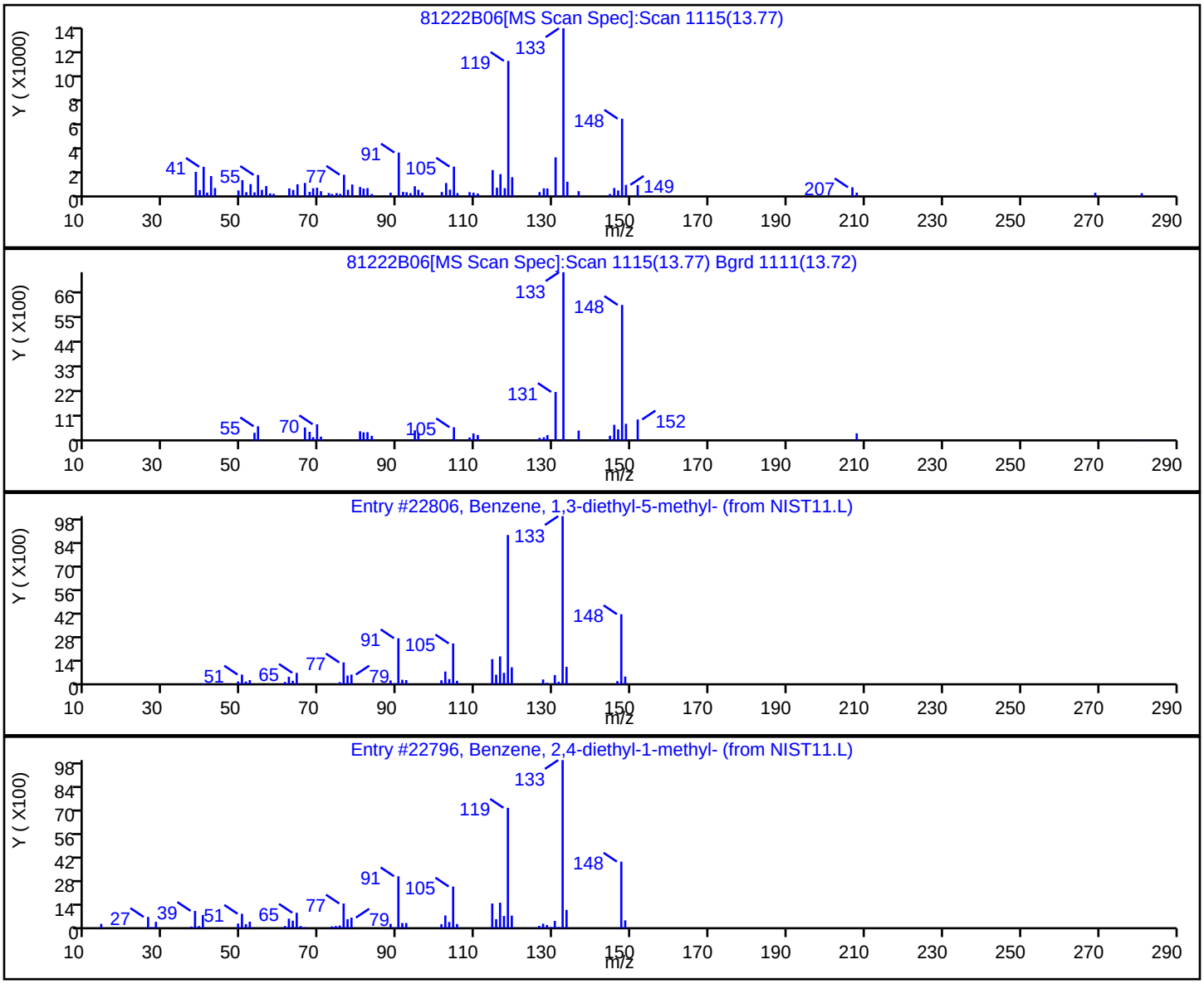
Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.755

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,3-diethyl-5-methyl-	2050-24-0	NIST11	22806	C11H16	148	98
Benzene, 2,4-diethyl-1-methyl-	1758-85-6	NIST11	22796	C11H16	148	95



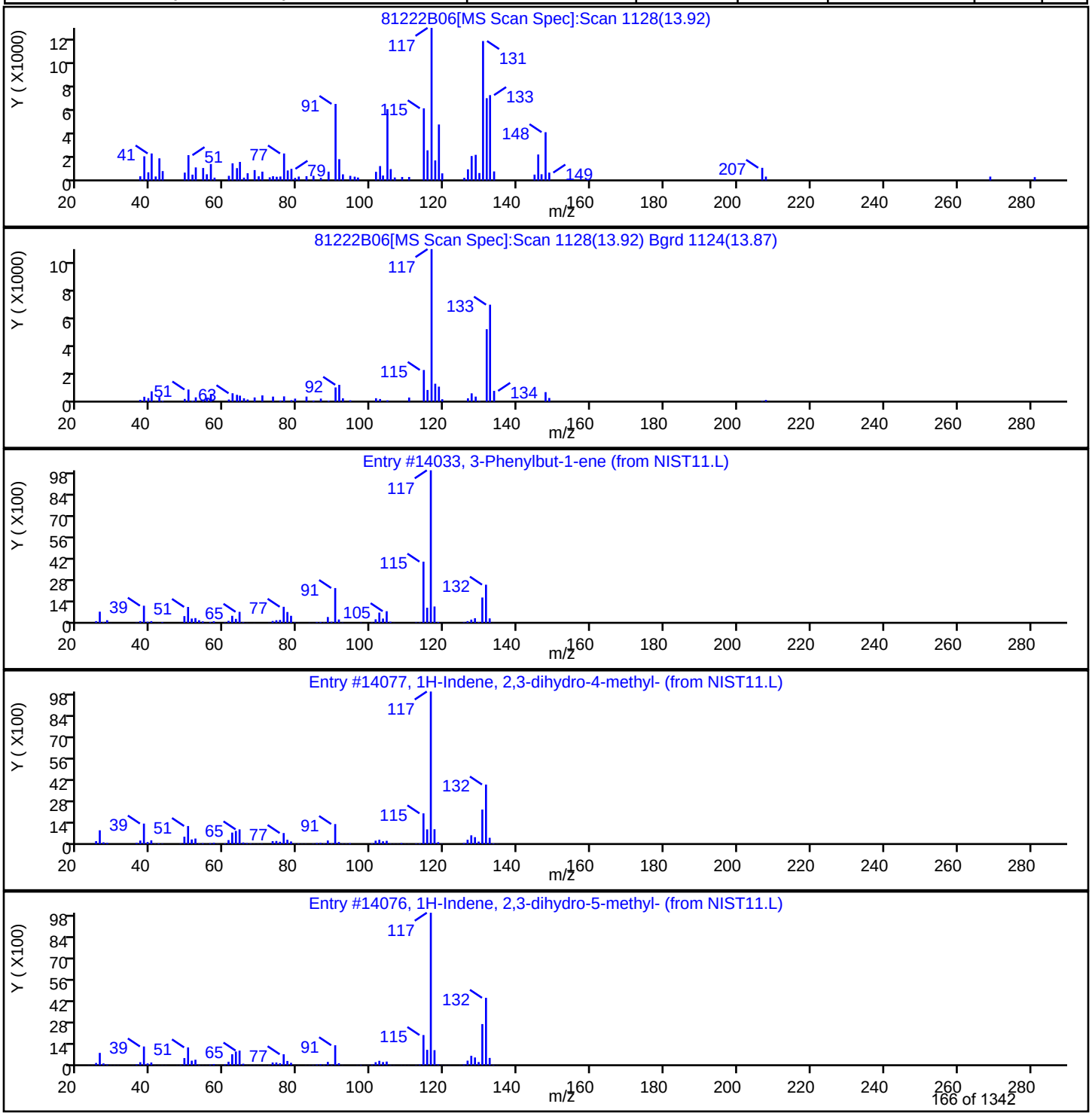
Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.909

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
3-Phenylbut-1-ene	934-10-1	NIST11	14033	C10H12	132	90
1H-Indene, 2,3-dihydro-4-methyl-	824-22-6	NIST11	14077	C10H12	132	87
1H-Indene, 2,3-dihydro-5-methyl-	874-35-1	NIST11	14076	C10H12	132	87



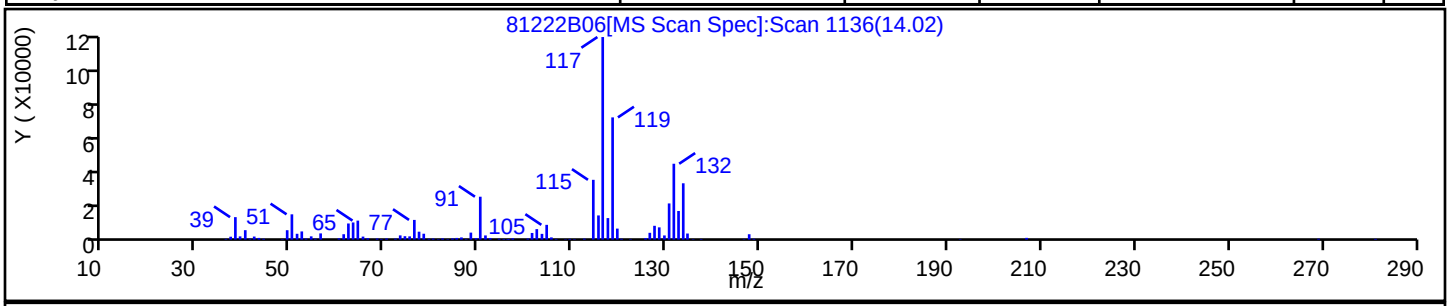
Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

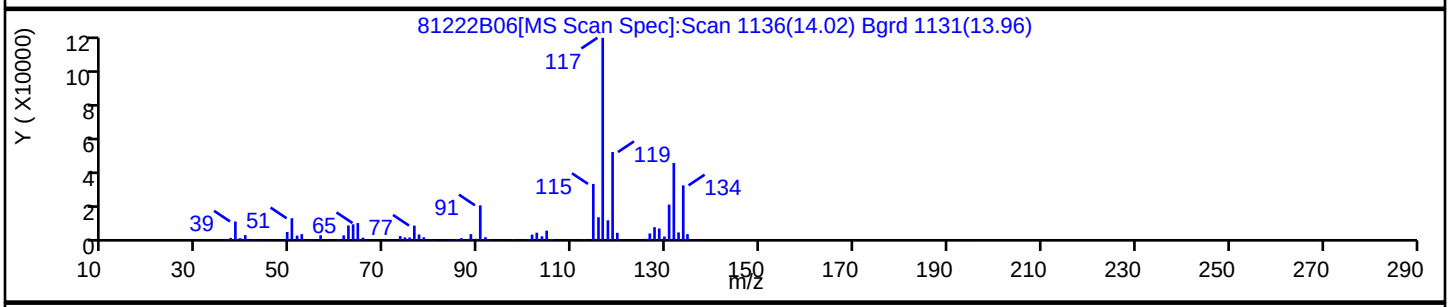
Shealy Environmental Services

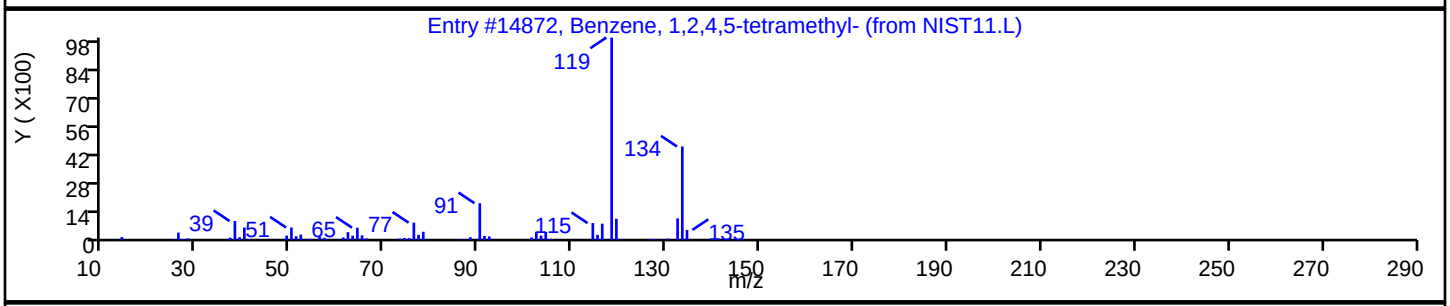
Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

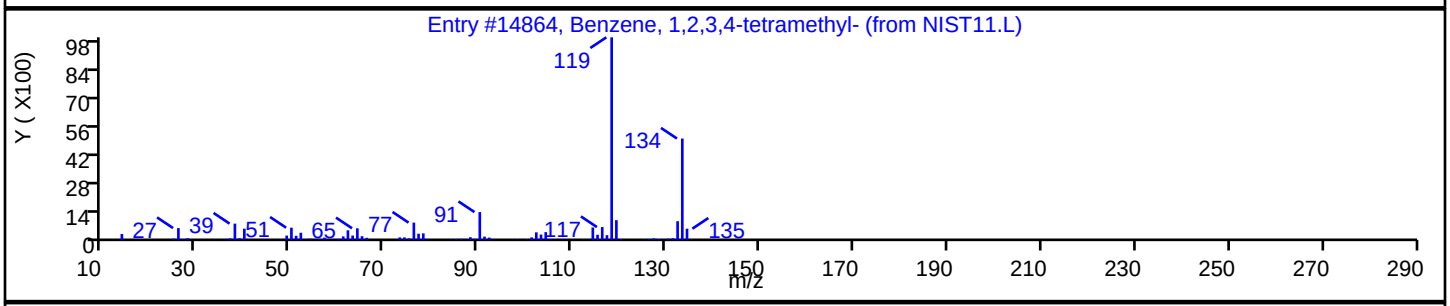
TIC @ 14.003

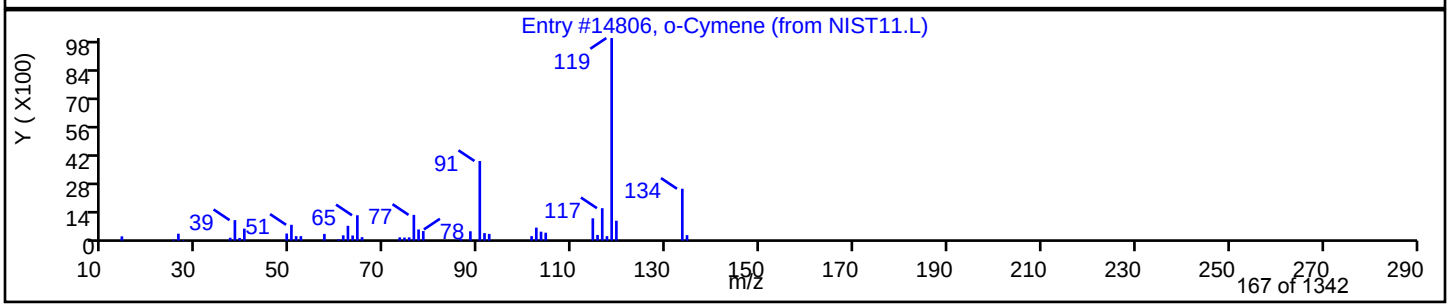
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST11	14872	C10H14	134	97
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST11	14864	C10H14	134	95
o-Cymene	527-84-4	NIST11	14806	C10H14	134	95











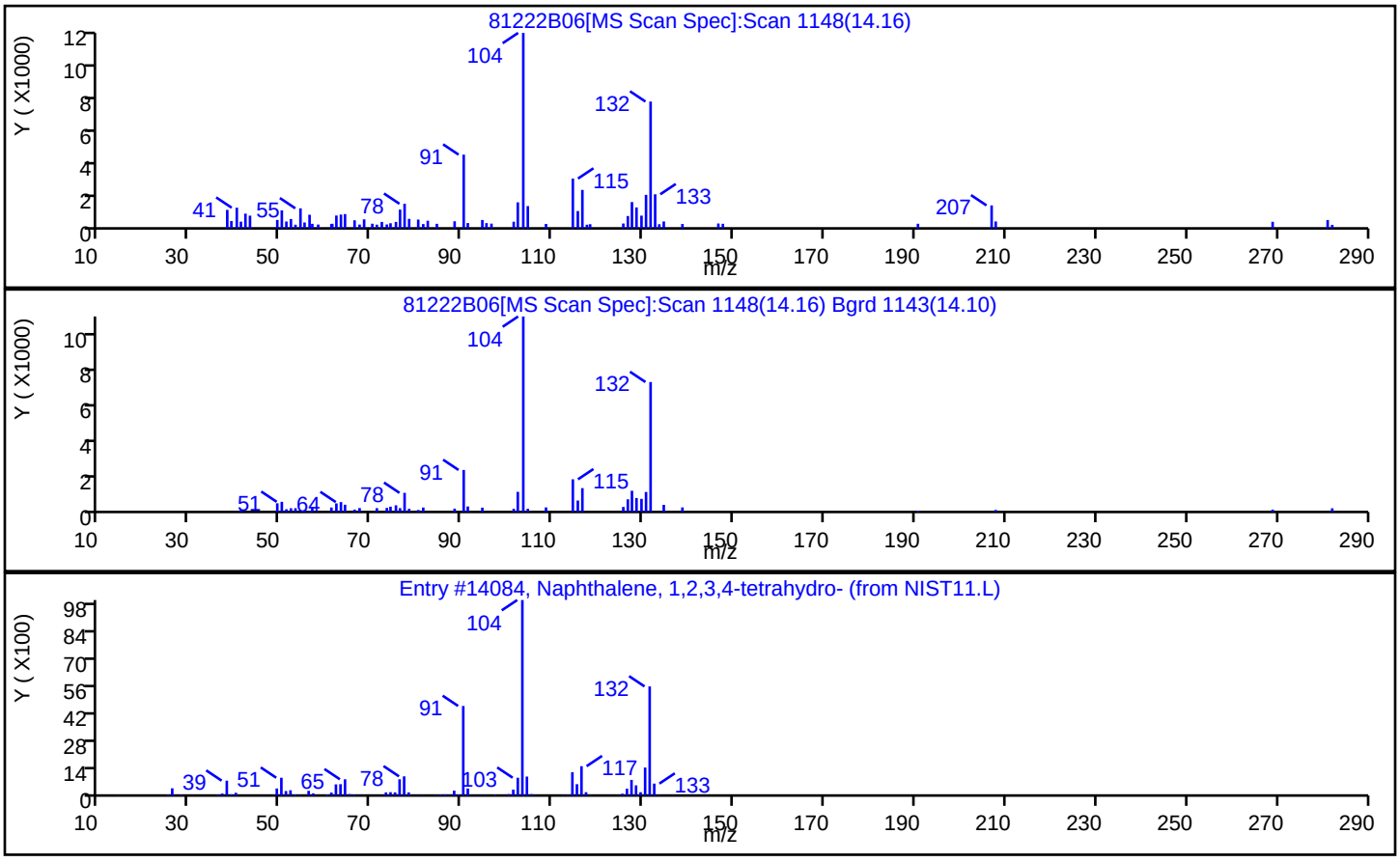
Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.145

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,2,3,4-tetrahydro-	119-64-2	NIST11	14084	C10H12	132	96



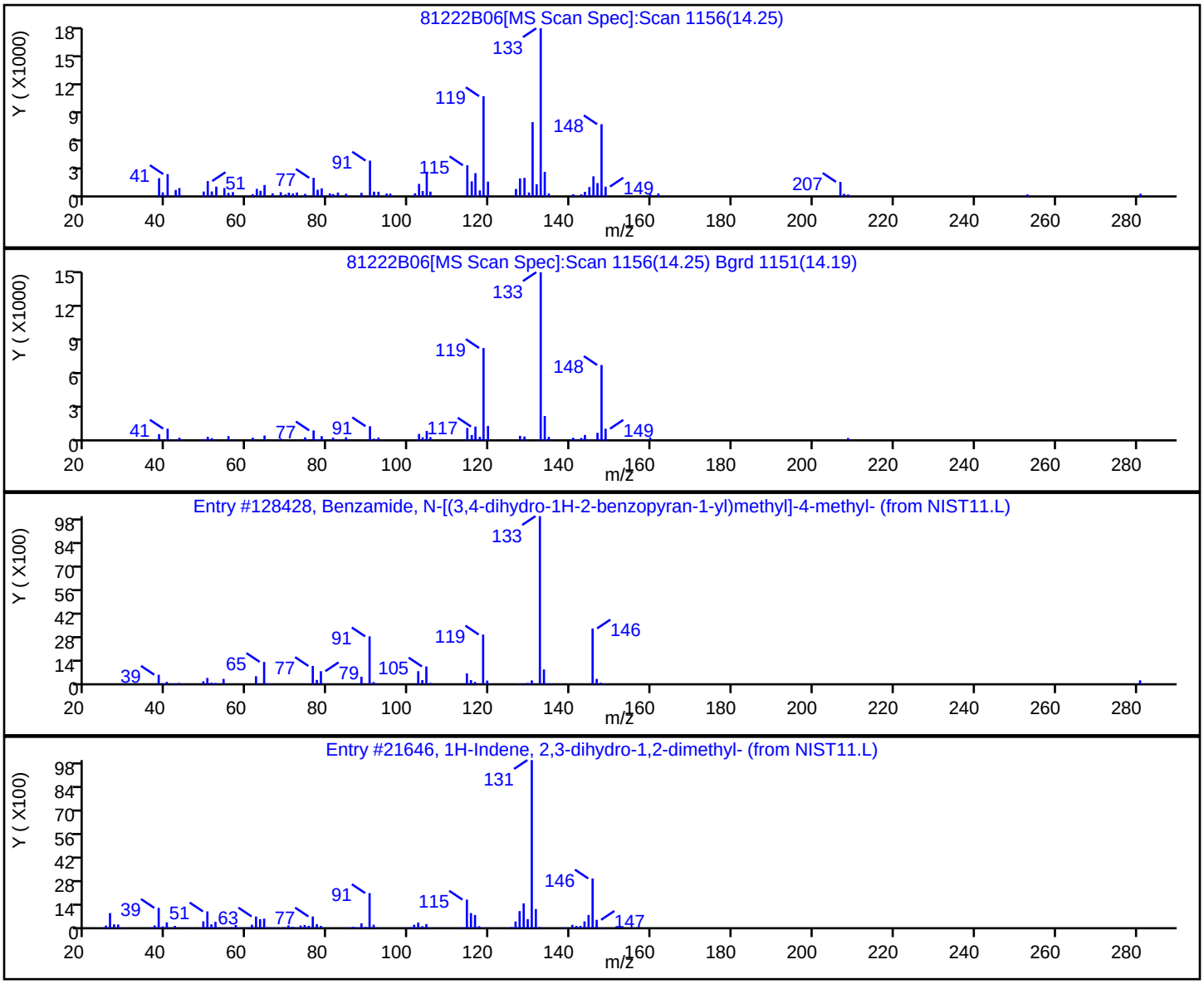
Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.240

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzamide, N-[(3,4-dihydro-1H-2-benzopyr	1000320-15-7	NIST11	128428	C18H19NO2	281	86
1H-Indene, 2,3-dihydro-1,2-dimethyl-	17057-82-8	NIST11	21646	C11H14	146	86



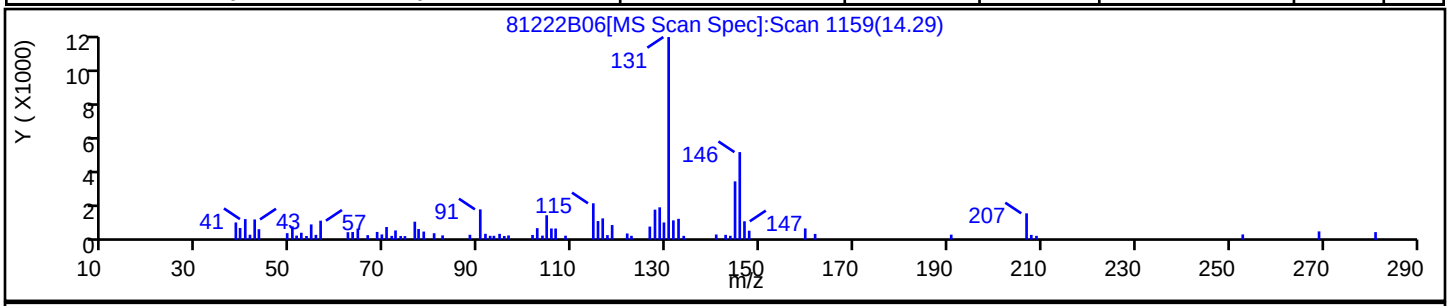
Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

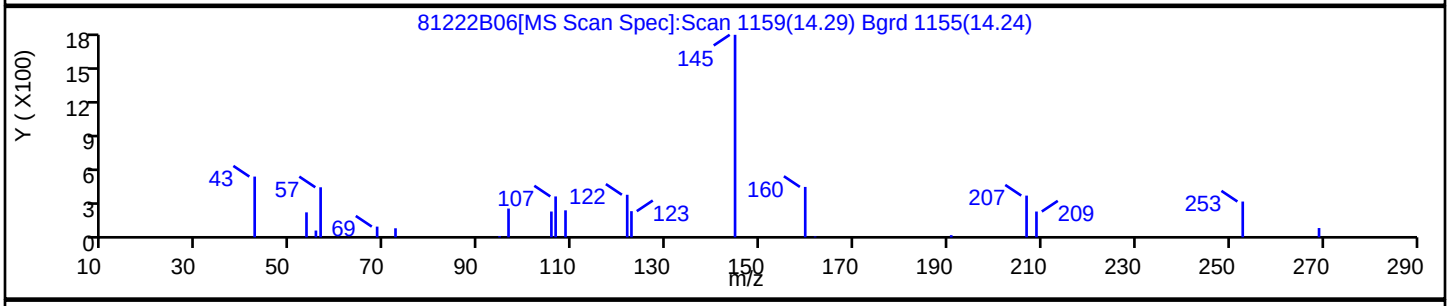
Shealy Environmental Services

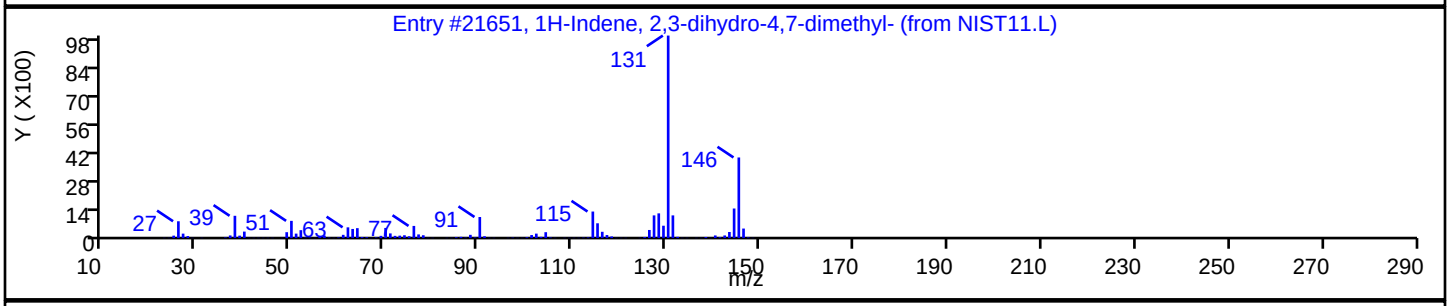
Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

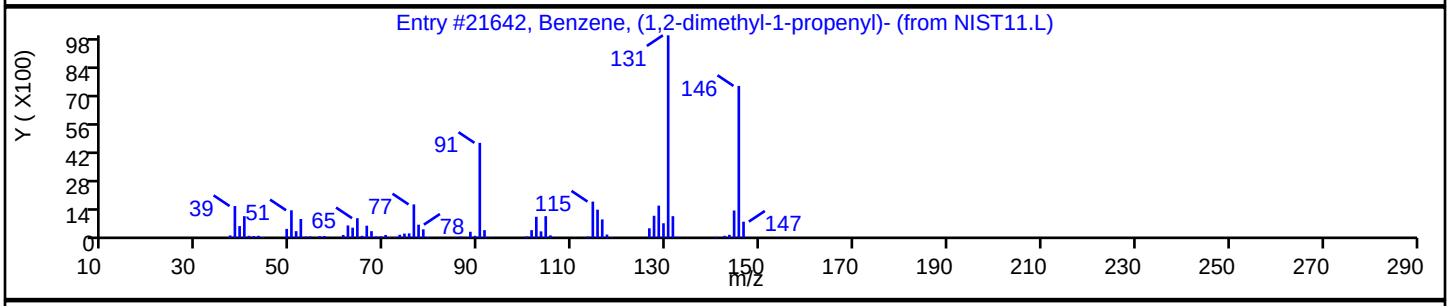
TIC @ 14.276

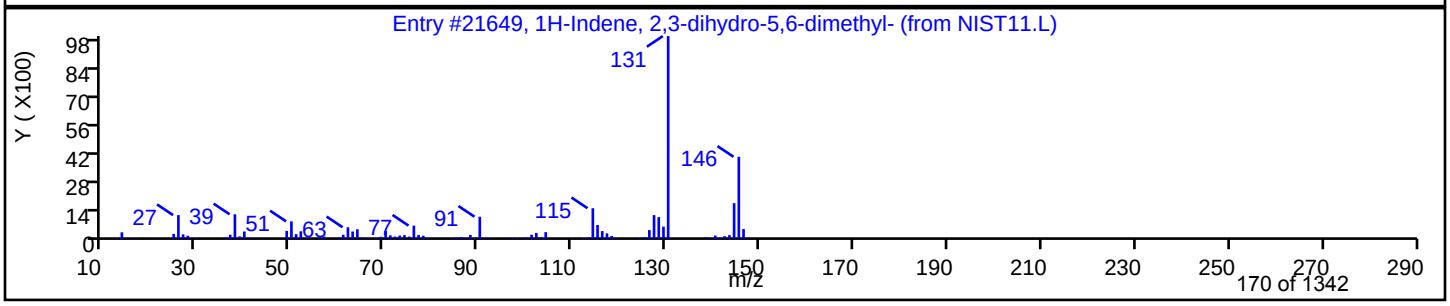
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1H-Indene, 2,3-dihydro-4,7-dimethyl-	6682-71-9	NIST11	21651	C11H14	146	95
Benzene, (1,2-dimethyl-1-propenyl)-	769-57-3	NIST11	21642	C11H14	146	94
1H-Indene, 2,3-dihydro-5,6-dimethyl-	1075-22-5	NIST11	21649	C11H14	146	93











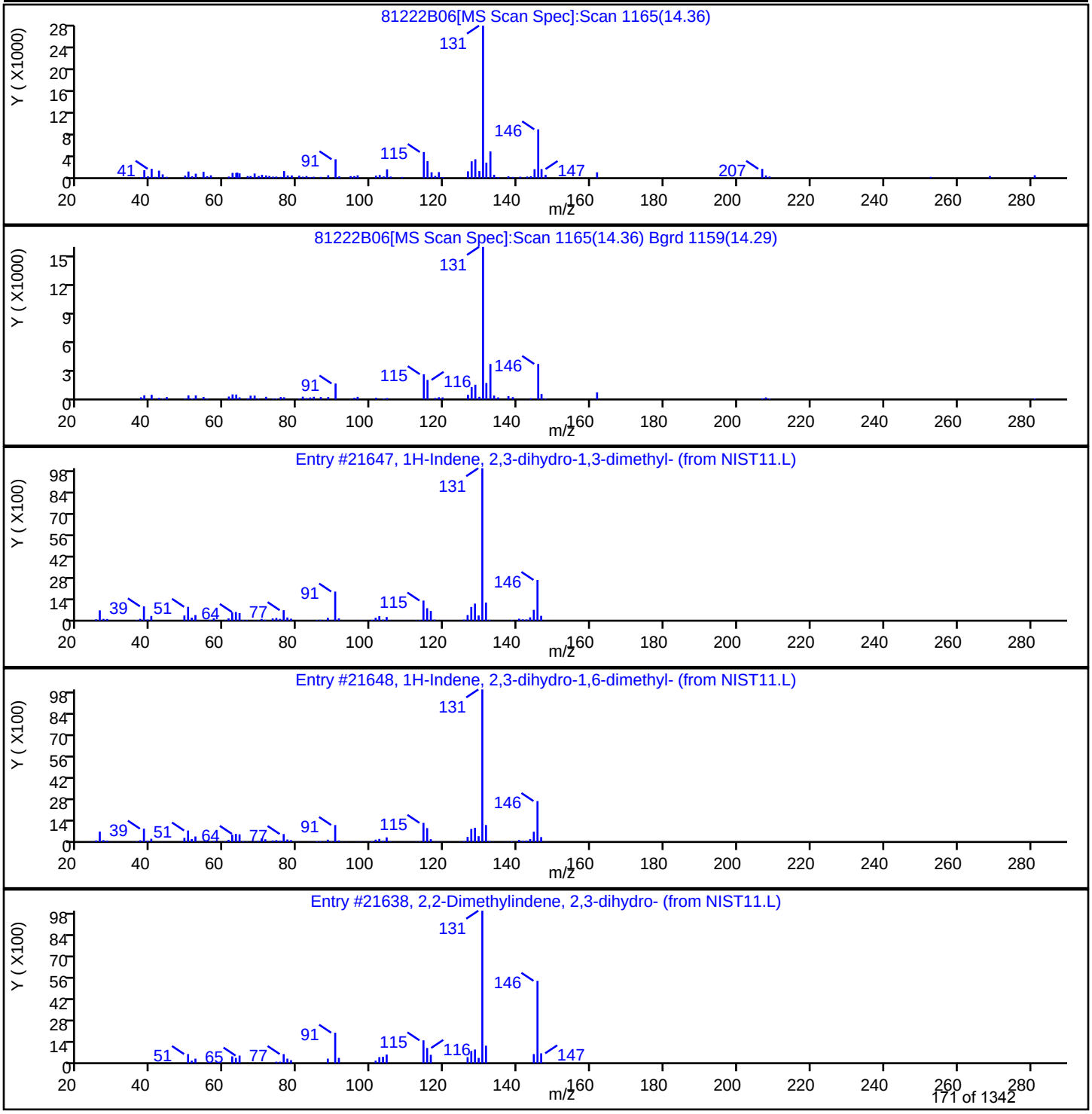
Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.347

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1H-Indene, 2,3-dihydro-1,3-dimethyl-	4175-53-5	NIST11	21647	C11H14	146	94
1H-Indene, 2,3-dihydro-1,6-dimethyl-	17059-48-2	NIST11	21648	C11H14	146	93
2,2-Dimethylindene, 2,3-dihydro-	20836-11-7	NIST11	21638	C11H14	146	90



Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D

Injection Date: 22-Dec-2015 12:32:30 Inst. ID: msd8.i

Client ID: F6R33DL Lab ID: QL16010-003DL

Sample Info: 8122215B.b, QL16010-003,5

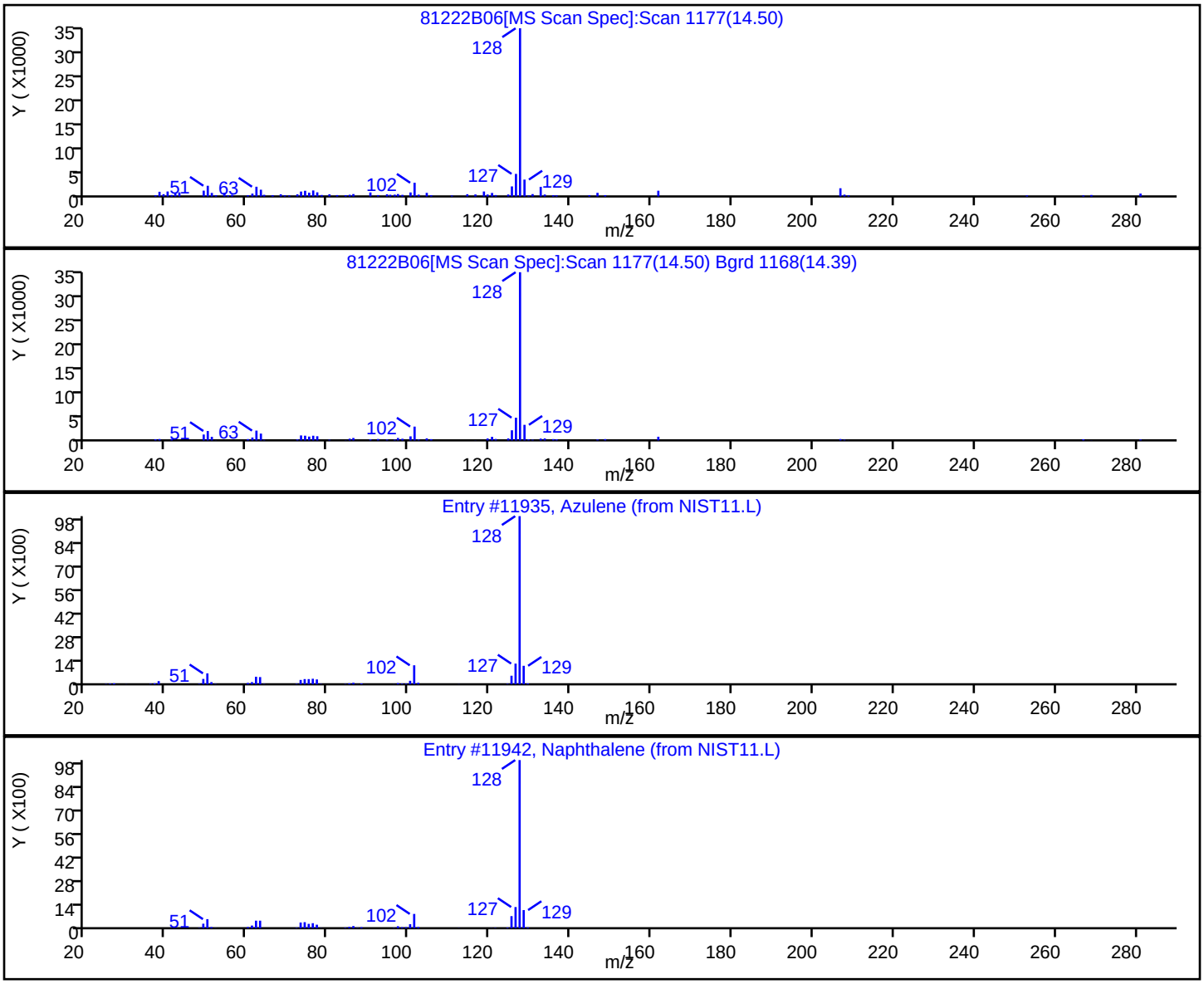
Purge Vol. 25 ML Dil. Factor: 5.0

Operator: ALL

Column1: DB-624 (0.25 mm) Detector: MS Scan

TIC @ 14.489

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Azulene	275-51-4	NIST11	11935	C10H8	128	91
Naphthalene	91-20-3	NIST11	11942	C10H8	128	95



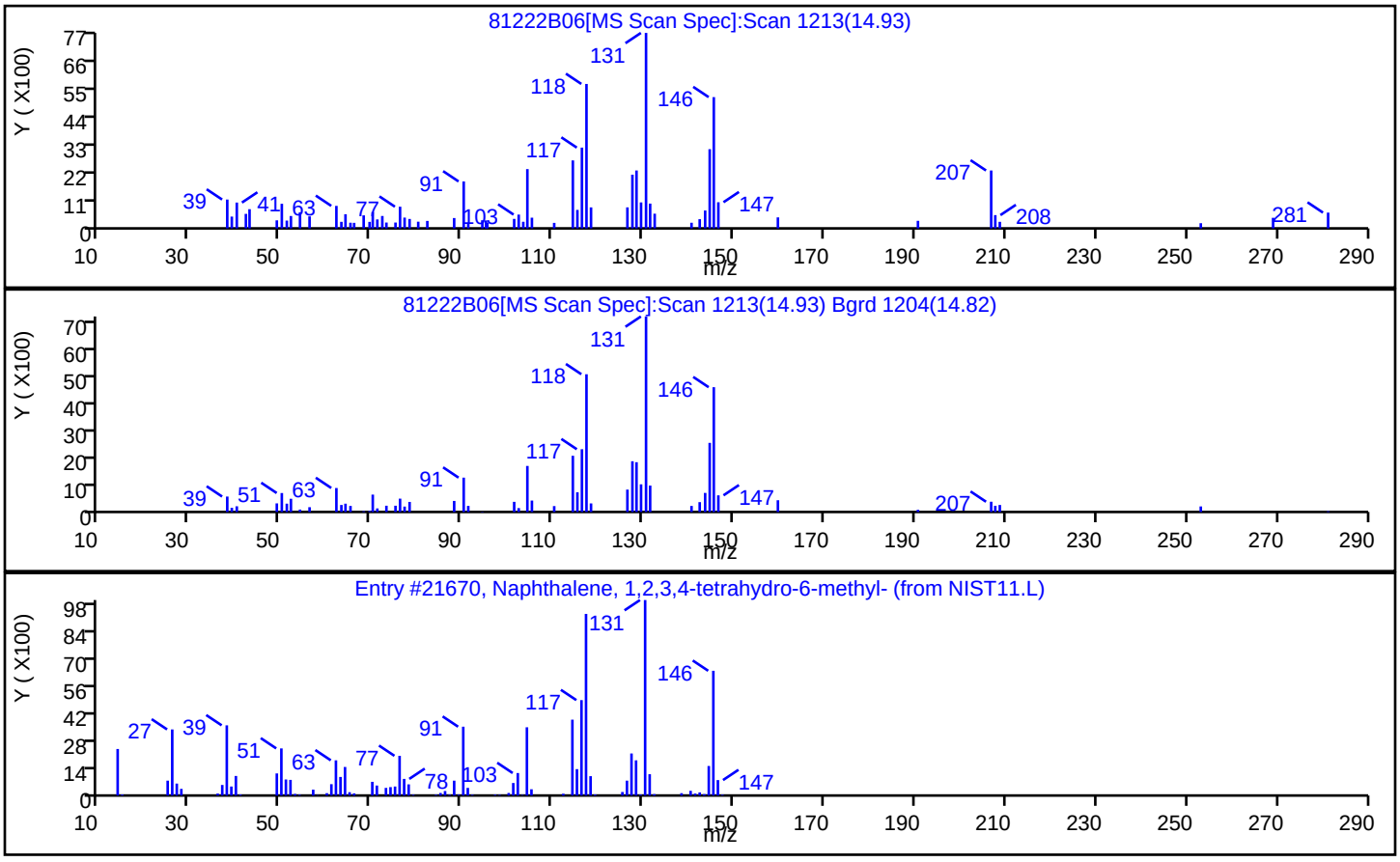
Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.915

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,2,3,4-tetrahydro-6-methyl	1680-51-9	NIST11	21670	C11H14	146	95



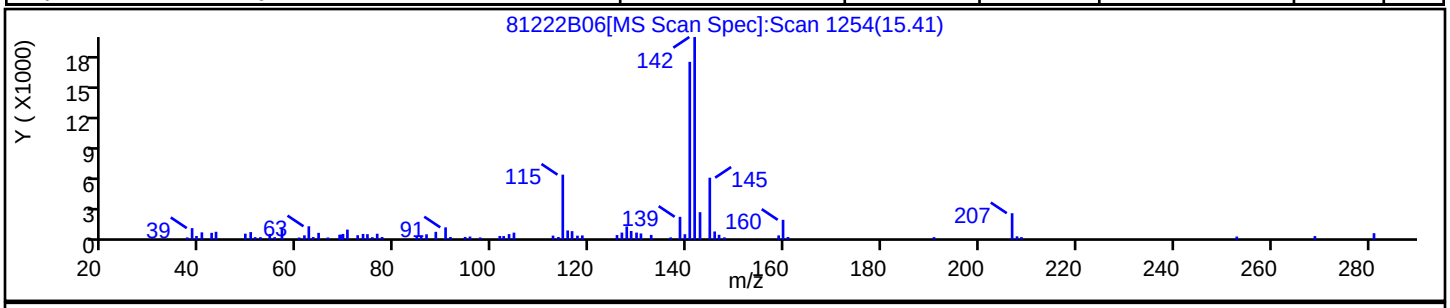
Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

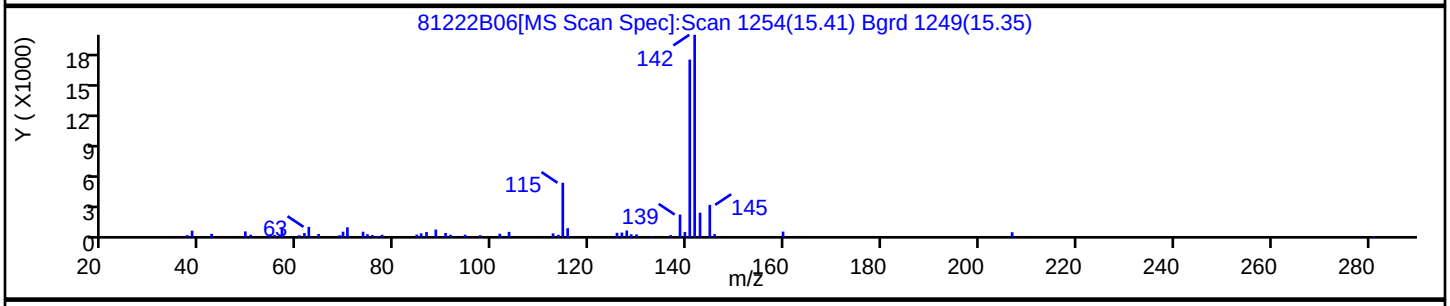
Shealy Environmental Services

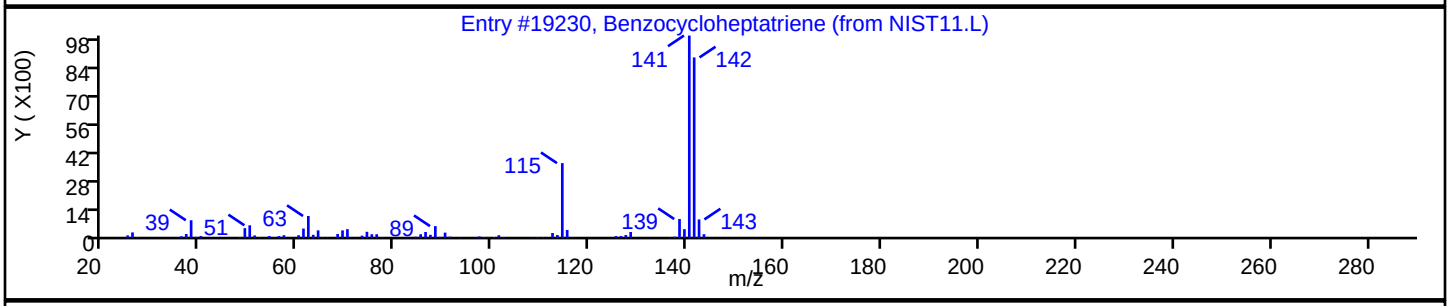
Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D
Injection Date: 22-Dec-2015 12:32:30 Inst. ID: msd8.i
Client ID: F6R33DL Lab ID: QL16010-003DL
Sample Info: 8122215B.b, QL16010-003,5
Purge Vol. 25 ML Dil. Factor: 5.0
Operator: ALL
Column1: DB-624 (0.25 mm) Detector: MS Scan

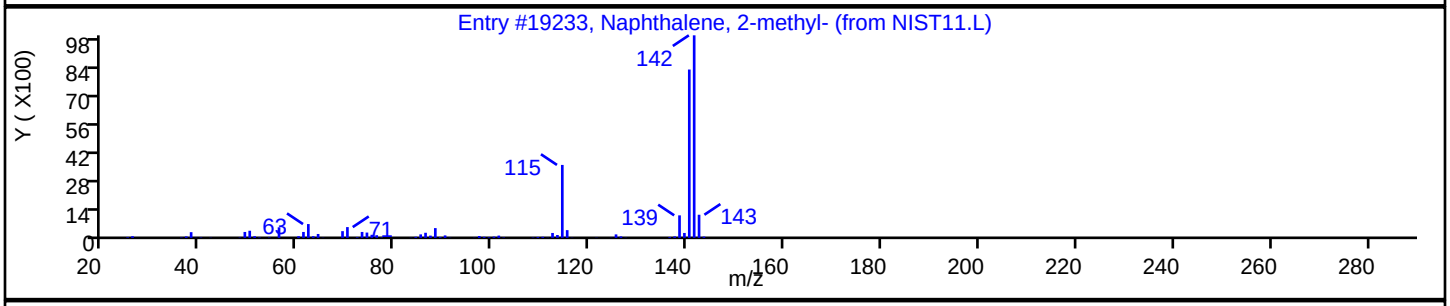
TIC @ 15.400

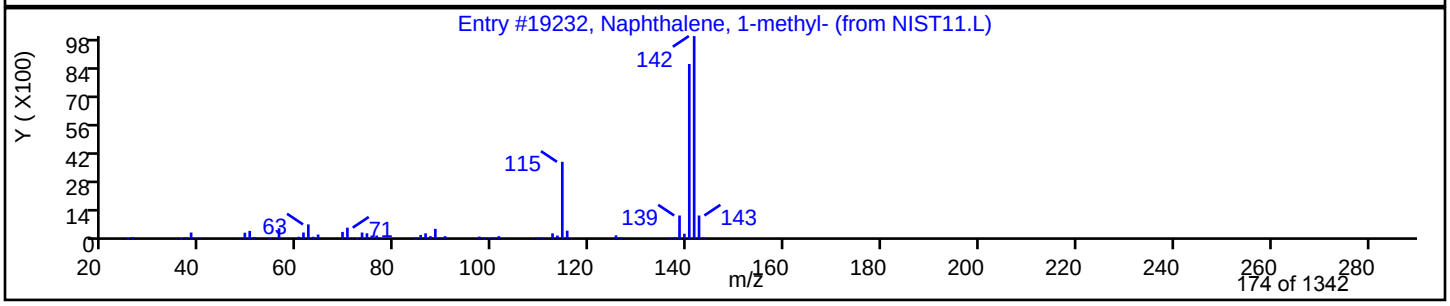
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzocycloheptatriene	264-09-5	NIST11	19230	C11H10	142	91
Naphthalene, 2-methyl-	91-57-6	NIST11	19233	C11H10	142	96
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	96











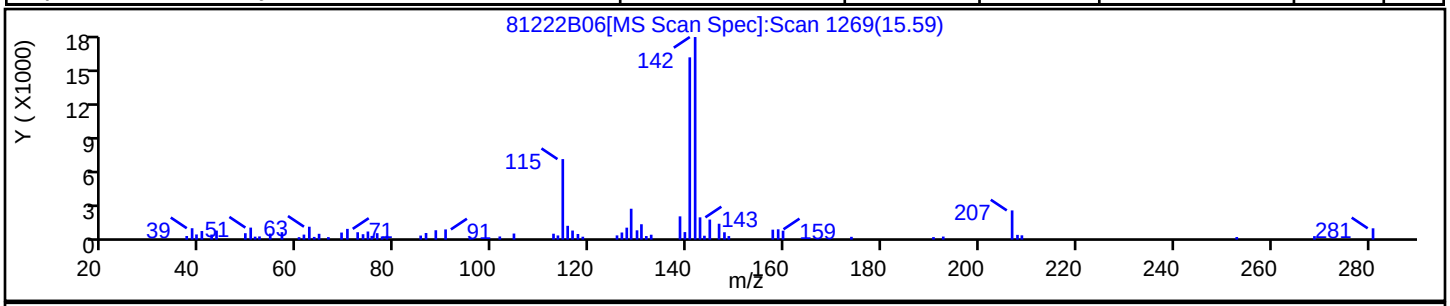
Report Date: 05-Jan-2016 09:42:45 AIM Revision: 1.0 26-May-2015 13:41:26

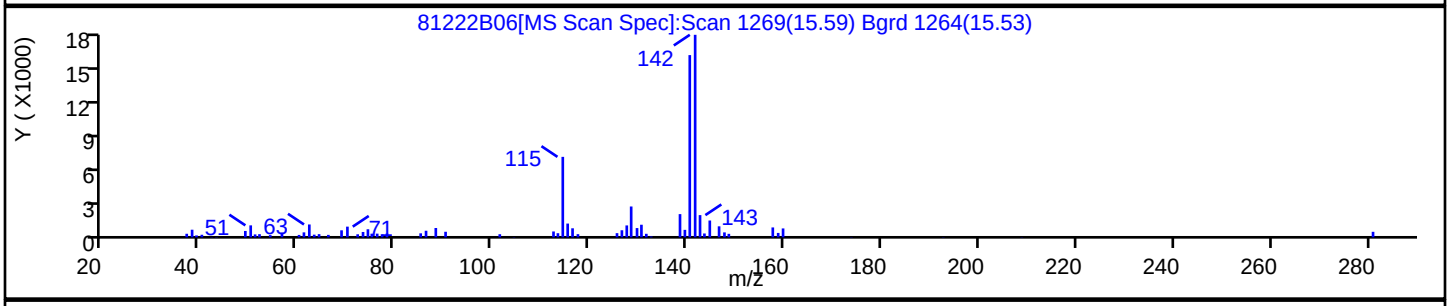
Shealy Environmental Services

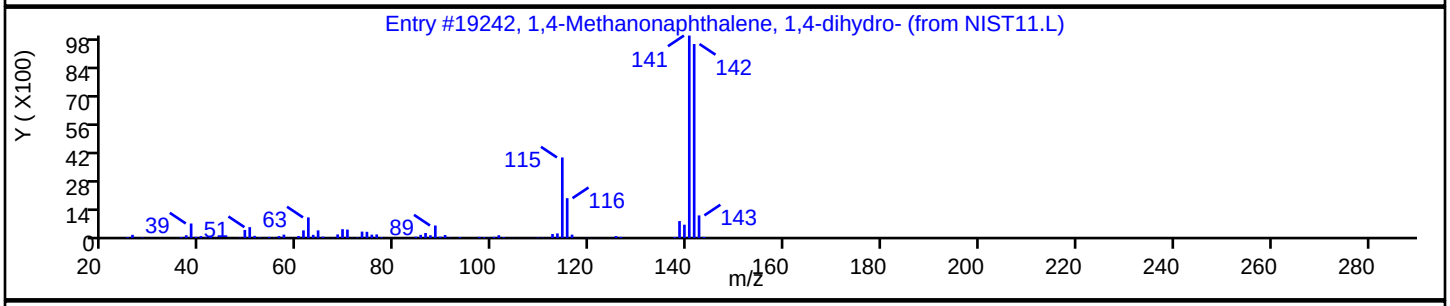
Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B06.D		
Injection Date:	22-Dec-2015 12:32:30	Inst. ID:	msd8.i
Client ID:	F6R33DL	Lab ID:	QL16010-003DL
Sample Info:	8122215B.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

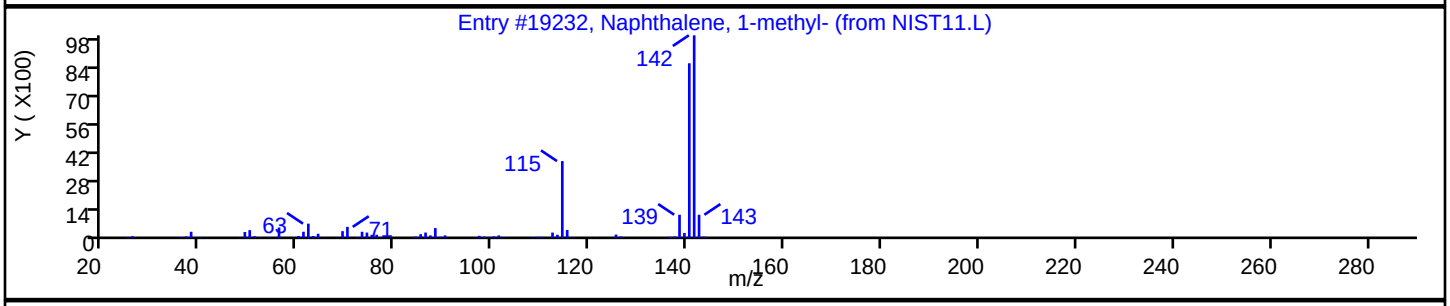
TIC @ 15.577

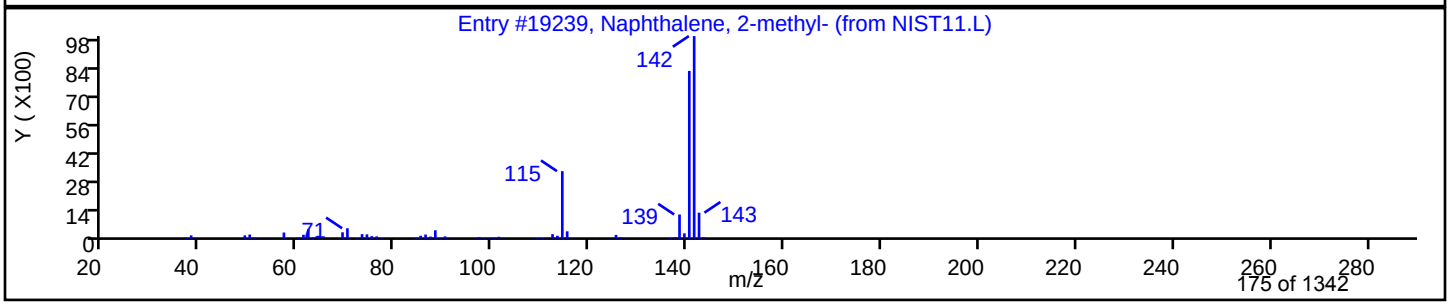
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NIST11	19242	C11H10	142	93
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	96
Naphthalene, 2-methyl-	91-57-6	NIST11	19239	C11H10	142	96











FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R34

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-004

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D22

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	10	U
67-64-1	Acetone	100	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	100	U
74-97-5	Bromochloromethane	10	U
67-66-3	Chloroform	4.1	J B
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R34

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-004

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D22

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
95-47-6	o-Xylene	10	U
179601-23-1	m, p-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	29	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R34

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: Trace VOA
Level: TRACE
Matrix: Water
Lab Sample ID: QL16010-004
Sample wt/vol: 25.0 (g/mL) mL
Lab File ID: 81221D22
% Solids:
Date Received: 12/16/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/21/2015
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 25.0 (mL)
Injection Volume:
Cleanup Types:
pH: 2 Dilution Factor: 20.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	3073-66-3	Cyclohexane, 1,1,3-trimethyl-	10.44	110	NJ
02		Unknown-01	11.18	74	J
03					
04		Unknown-02	11.66	64	J
05		Unknown-03	11.73	100	J
06		Unknown-04	12.10	74	J
07	103-65-1	Benzene, propyl-	12.17	64	NJ
08		Unknown-05	12.28	71	J
09		Unknown-06	12.70	66	J
10					
11	1758-88-9	Benzene, 2-ethyl-1,4-	13.39	66	NJ
12	1560-06-1	Benzene, 2-butenyl-	13.48	80	NJ
13	1000152-47-3	trans-Decalin, 2-methyl-	13.61	64	NJ
14	95-93-2	Benzene, 1,2,4,5-tetramethyl-	13.67	59	NJ
15	2958-75-0	1-Methyldecahydronaphthalene	13.76	55	NJ
16	56253-64-6	Benzene, (2-methyl-1-	13.87	63	NJ
17	76089-59-3	1,3-Cyclopentadiene, 1,2,3,4-	14.00	230	NJ
18	769-57-3	Benzene, (1,2-dimethyl-1-	14.28	64	NJ
19	53172-84-2	Benzene, (1-methyl-1-	14.34	170	NJ
20		Unknown-07	14.44	120	J
21	2613-76-5	1H-Indene, 2,3-dihydro-1,1,3-	14.67	100	NJ
22		Unknown-08	14.80	61	J
23		Unknown-09	14.88	110	J
24		Unknown-10	15.00	68	J
25		Unknown-11	15.19	79	J
26		Unknown-12	15.25	61	J
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	116	J

[2]EPA-designated Registry Number.

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Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Lab Sample ID:	QL16010-004	Client Sample ID:	F6R34
Injection Date:	21-Dec-2015 21:35:30	Dil. Factor:	20.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, QL16010-004,20		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:43:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	22
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	05-Jan-2016 09:40:30

	Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
	1 Dichlorodifluoromethane	85.0		1.745		ND			
	2 Chloromethane	50.0		1.922		ND			
$	3 Vinyl Chloride-d3	65.0	2.041	2.040	0.001	51191	7.0927	7.0926	R
	4 Vinyl Chloride	62.0		2.052		ND			
	5 Bromomethane	94.0		2.395		ND			
$	6 Chloroethane-d5	69.0	2.478	2.478	0.000	38420	5.9853	5.9853	
	7 Chloroethane	64.0		2.502		ND			
	8 Trichlorofluoromethane	101.0		2.786		ND			
$	12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	128274	5.3909	5.3909	
	13 1,1-Dichloroethene	96.0		3.389		ND			
	11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.413		ND			
	14 Acetone	43.0		3.449		ND			
	15 Carbon Disulfide	76.0		3.685		ND			
	16 Methyl Acetate	43.0		3.875		ND			
	17 Methylene Chloride	84.0		4.005		ND			
	20 Methyl tert-Butyl Ether	73.0		4.372		ND			
	21 trans-1,2-Dichloroethene	96.0		4.383		ND			
	23 1,1-Dichloroethane	63.0		4.928		ND			
$	25 2-Butanone-d5	46.0	5.626	5.626	0.000	119083	56.938	56.938	
	26 cis-1,2-Dichloroethene	96.0		5.697		ND			
	28 2-Butanone	43.0		5.709		ND			
	29 Bromochloromethane	128.0		6.004		ND			
$	30 Chloroform-d	84.0	6.087	6.087	0.000	125511	5.9433	5.9433	Q
	31 Chloroform	83.0	6.123	6.111	0.012	4958	0.20290	4.0580	Qe
	33 1,1,1-Trichloroethane	97.0		6.371		ND			
	32 Cyclohexane	56.0		6.442		ND			
	34 Carbon Tetrachloride	117.0		6.596		ND			

Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	52326	5.8251	5.8250	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	275090	6.3343	6.3342	R
37 Benzene	78.0		6.856		ND			
39 1,2-Dichloroethane	62.0		6.880		ND			
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	252788	5.0000	100.00	
42 Trichloroethene	95.0		7.720		ND			
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	70354	5.8235	5.8235	
43 Methylcyclohexane	83.0		7.981		ND			
45 1,2-Dichloropropane	63.0		8.016		ND			
49 Bromodichloromethane	83.0		8.383		ND			
50 cis-1,3-Dichloropropene	75.0		8.986		ND			
51 4-Methyl-2-pentanone	43.0		9.199		ND			
$ 52 Toluene-d8	98.0	9.353	9.341	0.012	249238	6.1484	6.1484	
53 Toluene	91.0		9.436		ND			
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	47532	5.4013	5.4013	
55 trans-1,3-Dichloropropene	75.0		9.684		ND			
56 1,1,2-Trichloroethane	97.0		9.897		ND			
57 Tetrachloroethene	164.0		10.075		ND			
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	68621	54.816	54.816	
60 2-Hexanone	43.0		10.170		ND			
61 Dibromochloromethane	129.0		10.323		ND			
62 1,2-Dibromoethane	107.0		10.454		ND			
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	198727	5.0000	100.00	
64 Chlorobenzene	112.0		10.939		ND			
65 Ethylbenzene	91.0		11.045		ND			
67 m+p-Xylenes	106.0		11.152		ND			
68 o-Xylene	106.0		11.507		ND			
69 Styrene	104.0		11.519		ND			
70 Bromoform	173.0		11.684		ND			
71 Isopropylbenzene	105.0	11.826	11.826	0.000	72745	1.4278	28.557	
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.039	12.039	0.000	26185	5.6077	5.6076	
74 1,1,2,2-Tetrachloroethane	83.0		12.075		ND			
83 1,3-Dichlorobenzene	146.0		12.820		ND			
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	95024	5.0000	100.00	
86 1,4-Dichlorobenzene	146.0		12.891		ND			
$ 87 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	69400	6.2302	6.2302	QR
89 1,2-Dichlorobenzene	146.0		13.175		ND			
90 1,2-Dibromo-3-chloropropane	75.0		13.719		ND			
91 1,2,4-Trichlorobenzene	180.0		14.299		ND			
94 1,2,3-Trichlorobenzene	180.0		14.666		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit
Q - Qualifier Signal(s) Fails Ratio Test
R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Lab Sample ID:	QL16010-004	Client Sample ID:	F6R34
Injection Date:	21-Dec-2015 21:35:30	Dil. Factor:	20.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, QL16010-004,20		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:43:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	22
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	05-Jan-2016 09:40:30

Tentative Identified Compound Results

RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
3073-66-3 Cyclohexane, 1,1,3-trimethyl-								
10.442	759326	5.4146	108.29	63	87	11584	C9H18	126
Unknown								
11.176	519742	3.7062	74.123	63				
Unknown Alkane								
11.460	412855	2.9440	58.880	63				
Unknown								
11.661	447775	3.1930	63.860	63				
Unknown								
11.732	713119	5.0851	101.70	63				
Unknown								
12.098	475472	3.7045	74.090	85				
103-65-1 Benzene, propyl-								
12.169	411319	3.2047	64.093	85	93	9408	C9H12	120
Unknown								
12.276	457519	3.5646	71.292	85				
Unknown								
12.702	426339	3.3217	66.434	85				
Unknown Alkane								
12.773	368566	2.8716	57.432	85				
1758-88-9 Benzene, 2-ethyl-1,4-dimethyl-								
13.388	426347	3.3218	66.435	85	95	14876	C10H14	134
1560-06-1 Benzene, 2-butenyl-								
13.483	511208	3.9829	79.659	85	90	14042	C10H12	132
1000152-47-3 trans-Decalin, 2-methyl-								
13.613	409059	3.1871	63.741	85	92	25429	C11H20	152

RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
95-93-2 Benzene, 1,2,4,5-tetramethyl-								
13.672	378672	2.9503	59.006	85	95	14872	C10H14	134
2958-75-0 1-Methyldecahydronaphthalene								
13.755	356029	2.7739	55.478	85	96	25436	C11H20	152
56253-64-6 Benzene, (2-methyl-1-butenyl)-								
13.873	404561	3.1520	63.040	85	91	21625	C11H14	146
76089-59-3 1,3-Cyclopentadiene, 1,2,3,4-tetramethyl								
14.004	1457115	11.353	227.05	85	97	14939	C10H14	134
769-57-3 Benzene, (1,2-dimethyl-1-propenyl)-								
14.276	411826	3.2086	64.172	85	95	21642	C11H14	146
53172-84-2 Benzene, (1-methyl-1-butenyl)-								
14.335	1078230	8.4007	168.01	85	90	21623	C11H14	146
Unknown								
14.441	755203	5.8839	117.68	85				
2613-76-5 1H-Indene, 2,3-dihydro-1,1,3-trimethyl-								
14.666	640351	4.9891	99.782	85	95	30908	C12H16	160
Unknown								
14.796	390254	3.0406	60.811	85				
Unknown								
14.879	737858	5.7488	114.98	85				
Unknown								
14.998	434358	3.3842	67.683	85				
Unknown								
15.187	510144	3.9746	79.493	85				
Unknown								
15.246	391077	3.0470	60.939	85				

Quant. Compounds	RT	Response	Amount ug/L
* 63 Chlorobenzene-d5	10.915	701185	5.0000
* 85 1,4-Dichlorobenzene-d4	12.868	641749	5.0000

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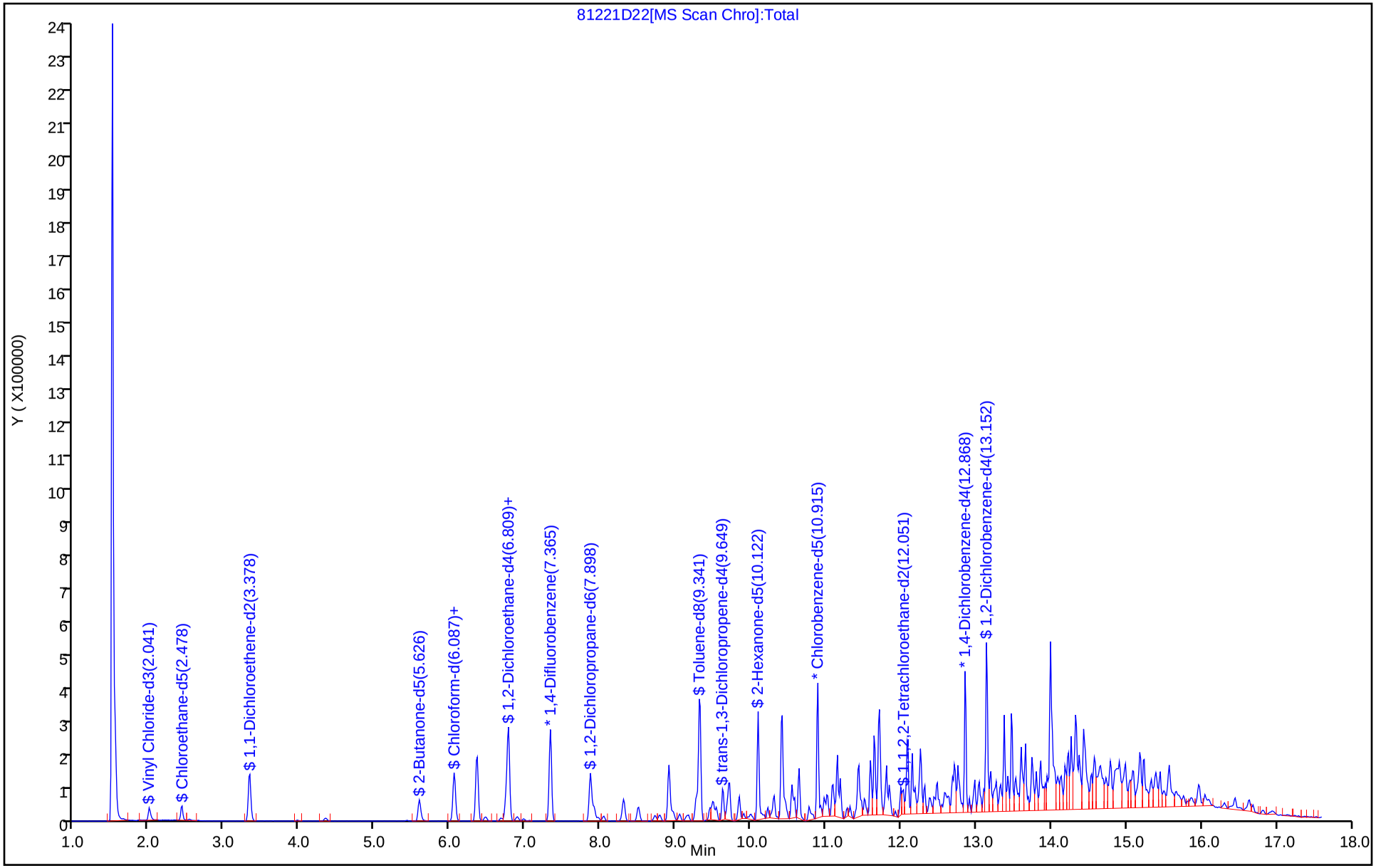
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D				
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	F6R34	Lab ID:	QL16010-004		
Sample Info:	8122115D.b, QL16010-004,20				
Purge Vol.	25 ML	Dil. Factor:	20.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

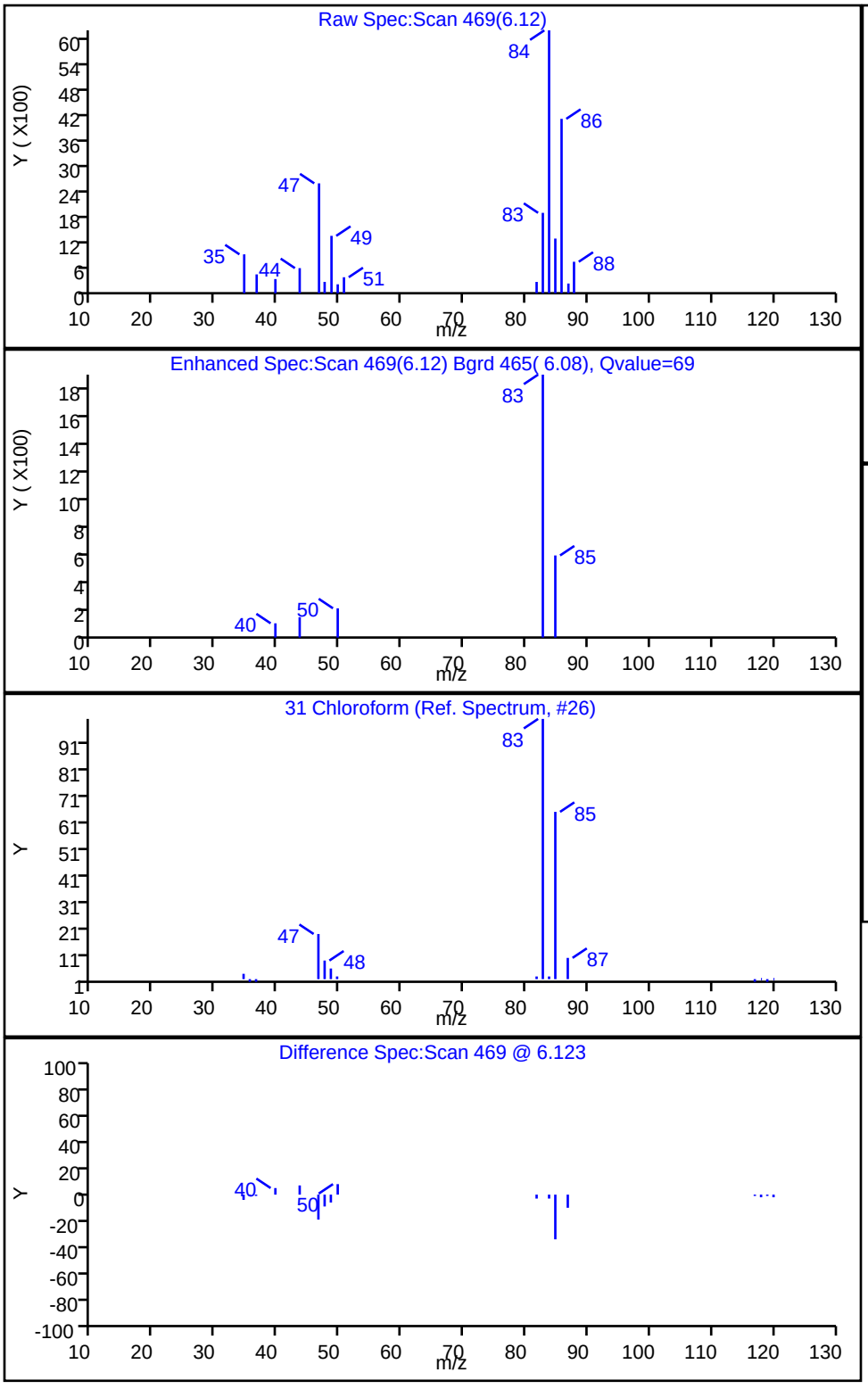


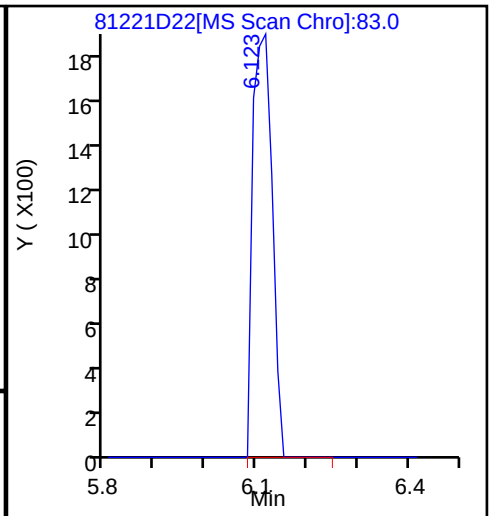
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

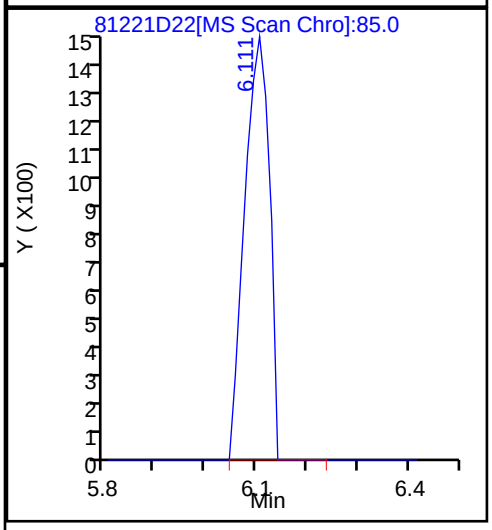
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

31 Chloroform





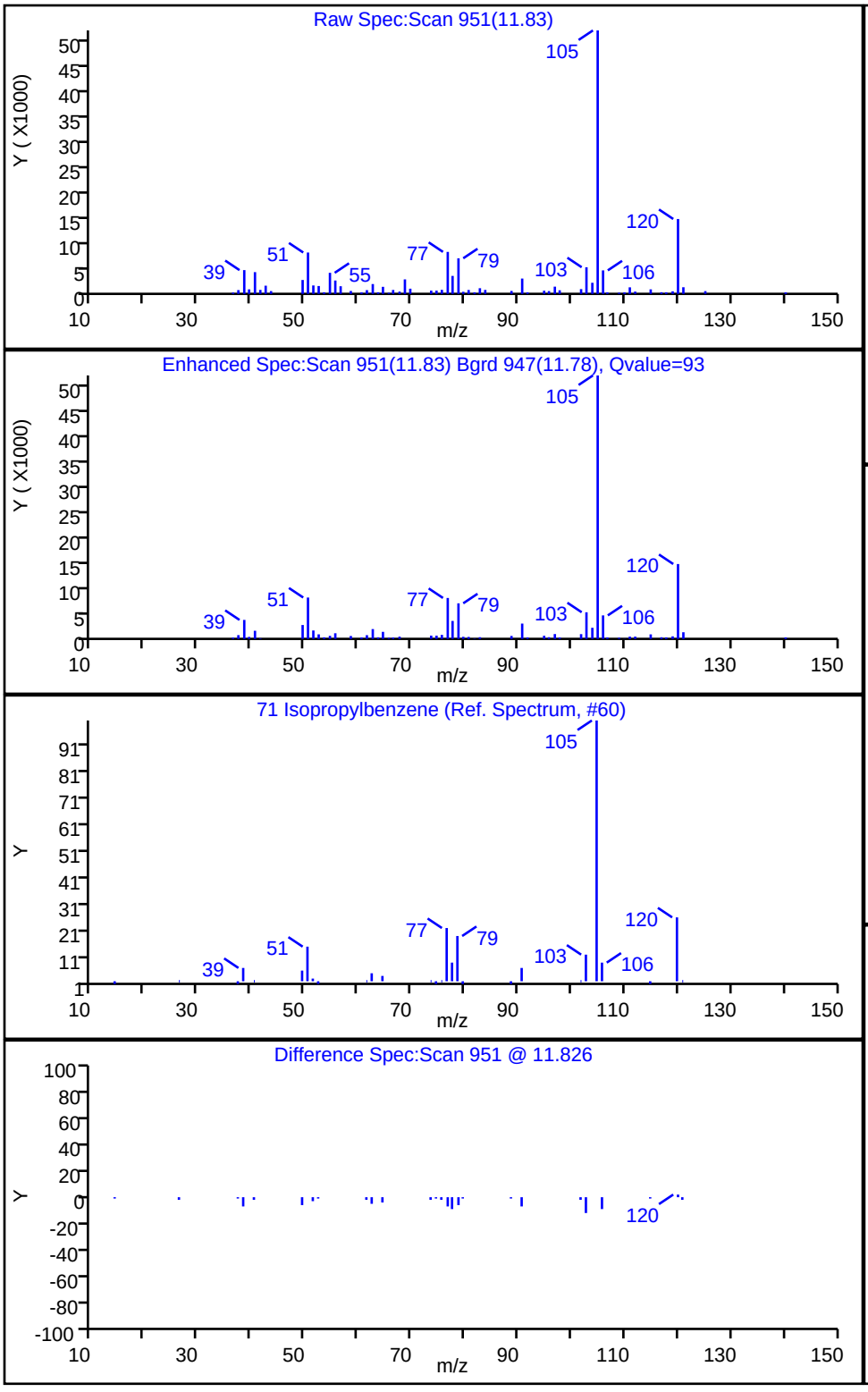


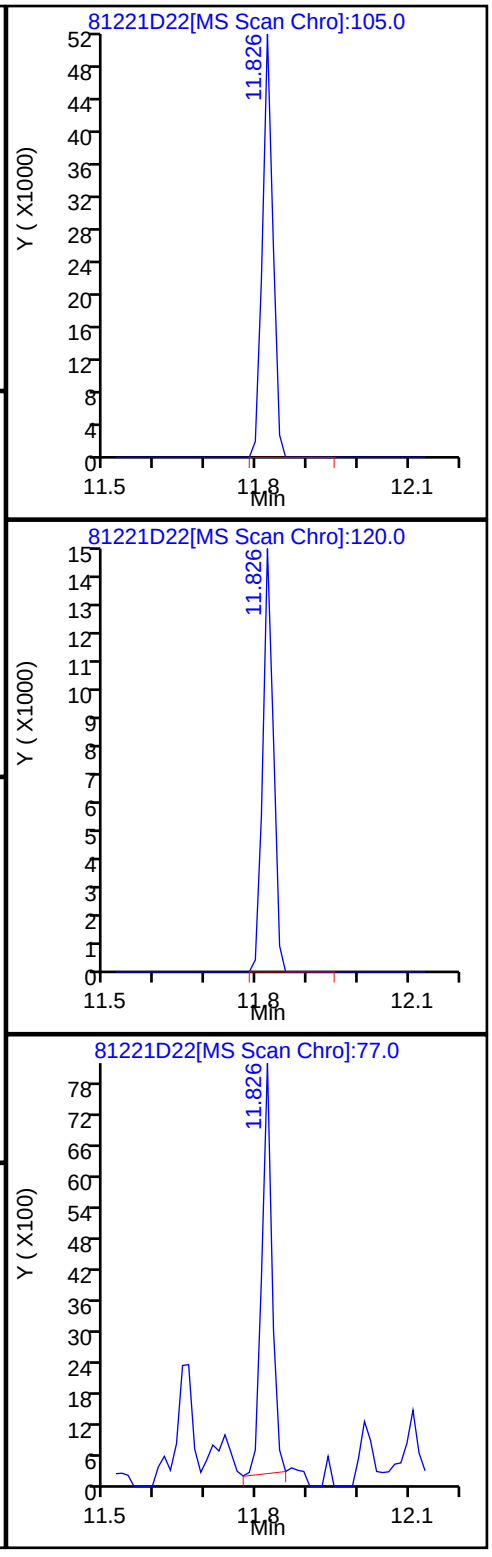
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

71 Isopropylbenzene





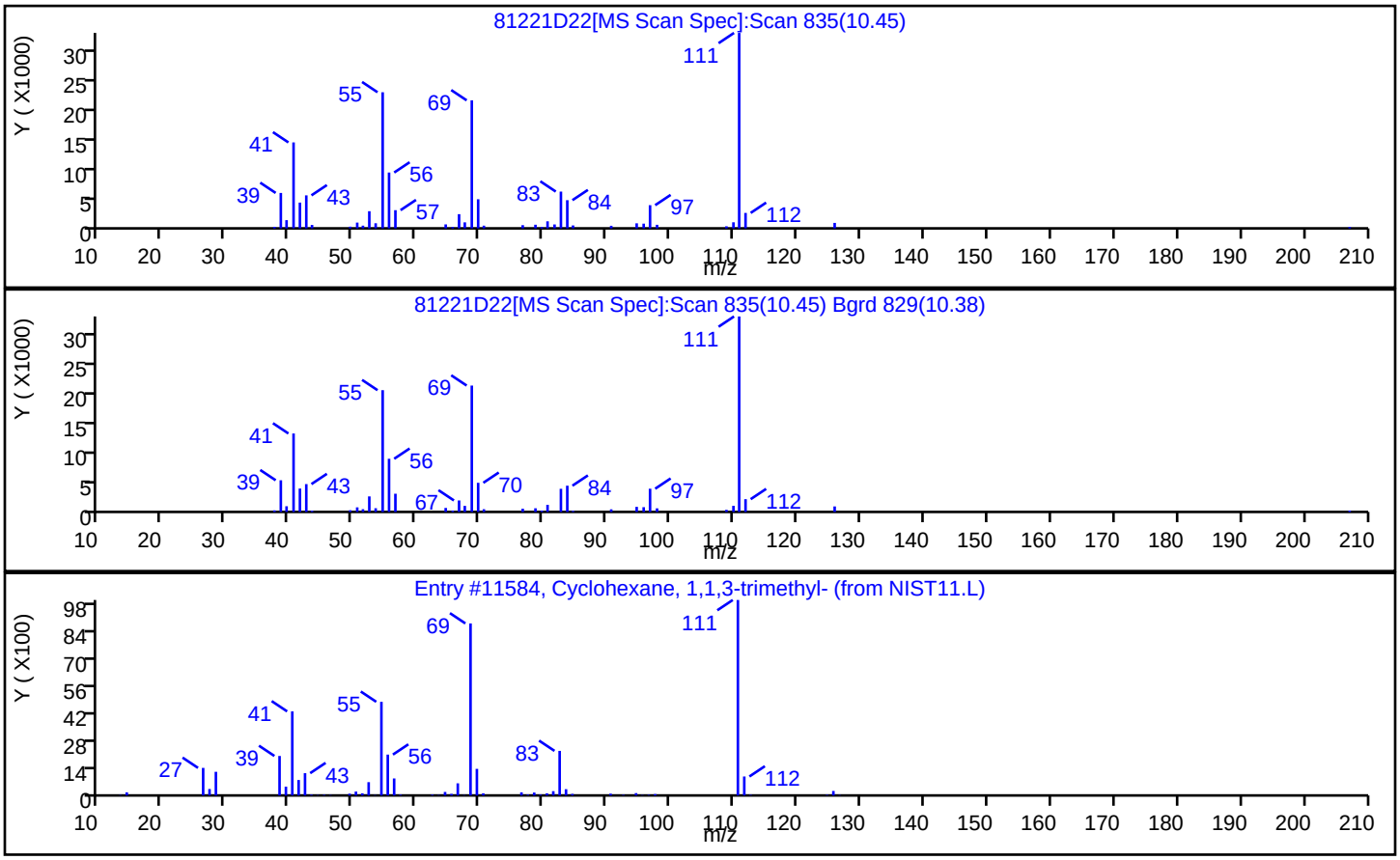
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 10.442

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Cyclohexane, 1,1,3-trimethyl-	3073-66-3	NIST11	11584	C9H18	126	87



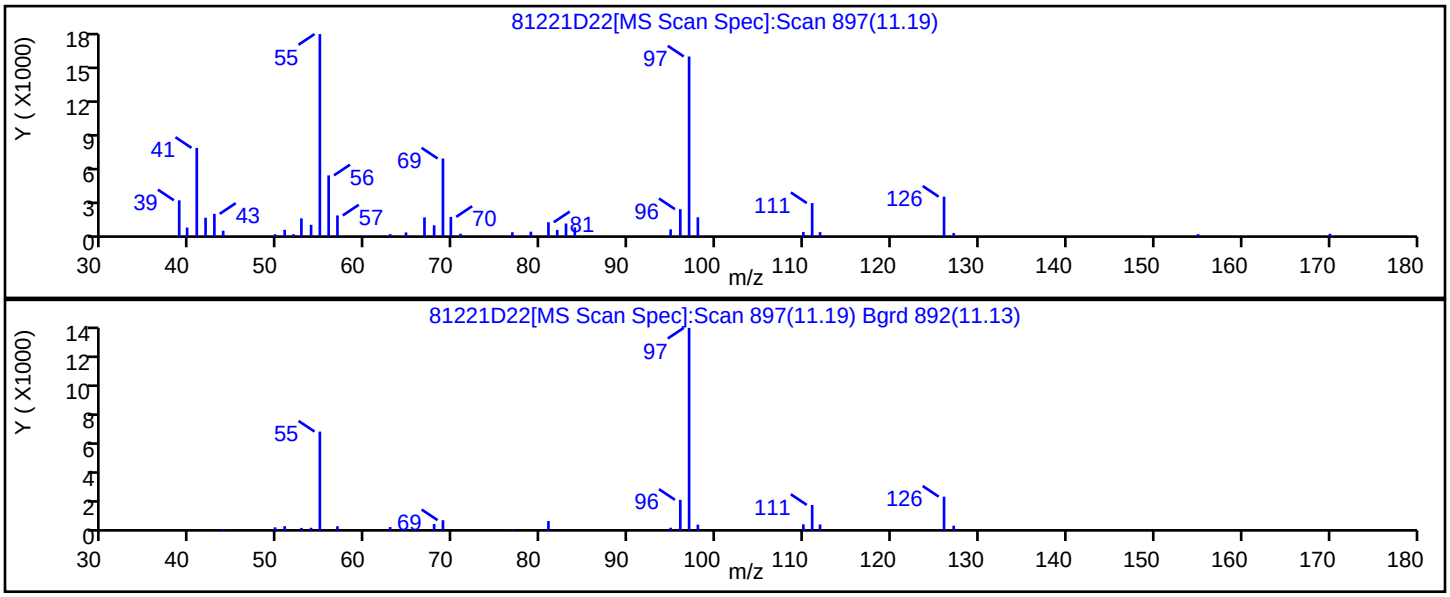
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.176

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



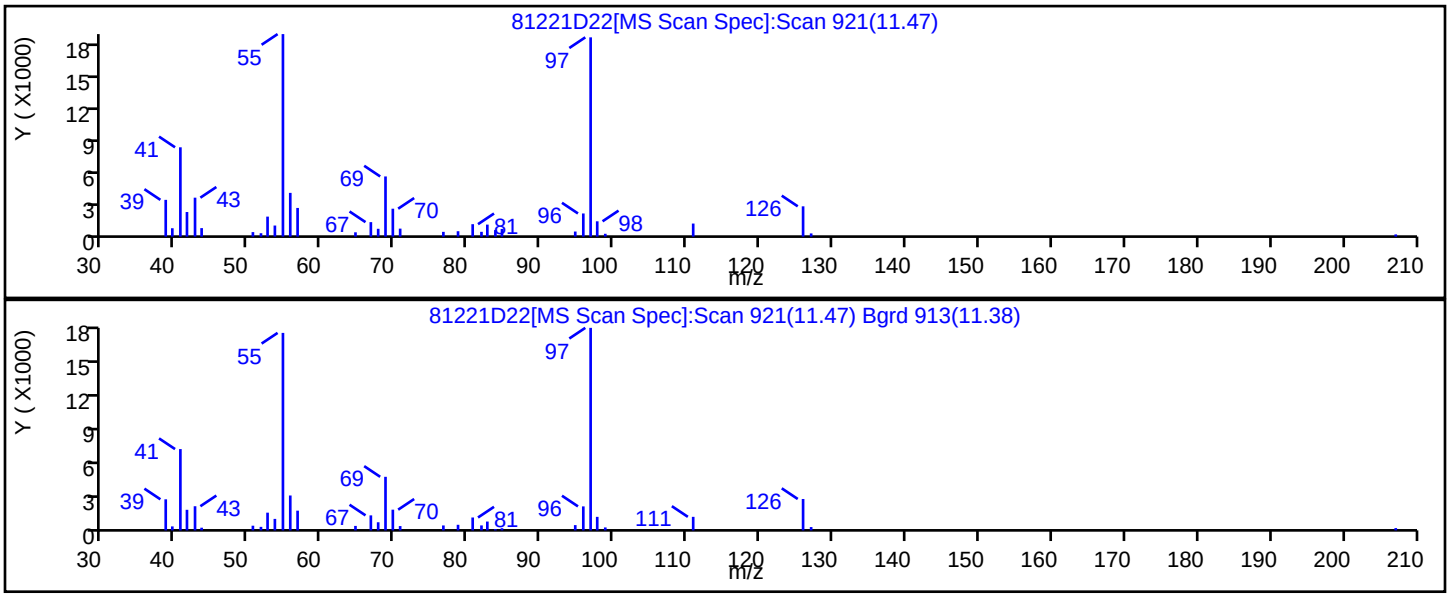
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.460

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



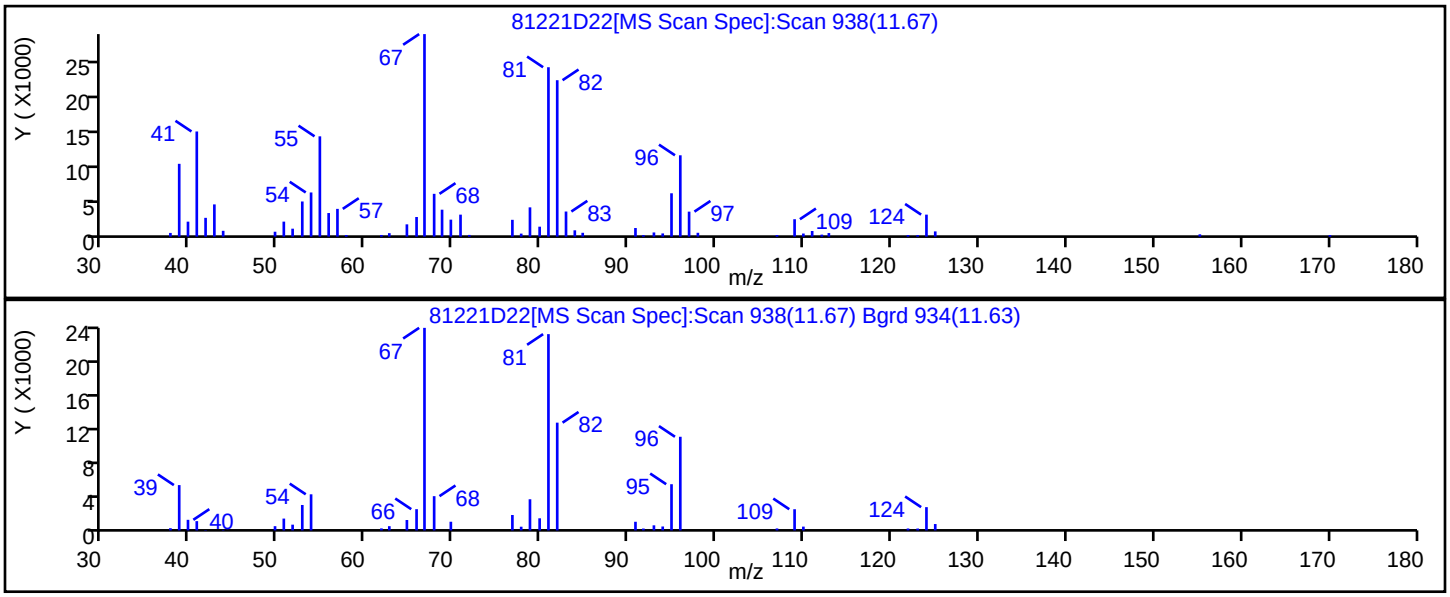
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.661

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



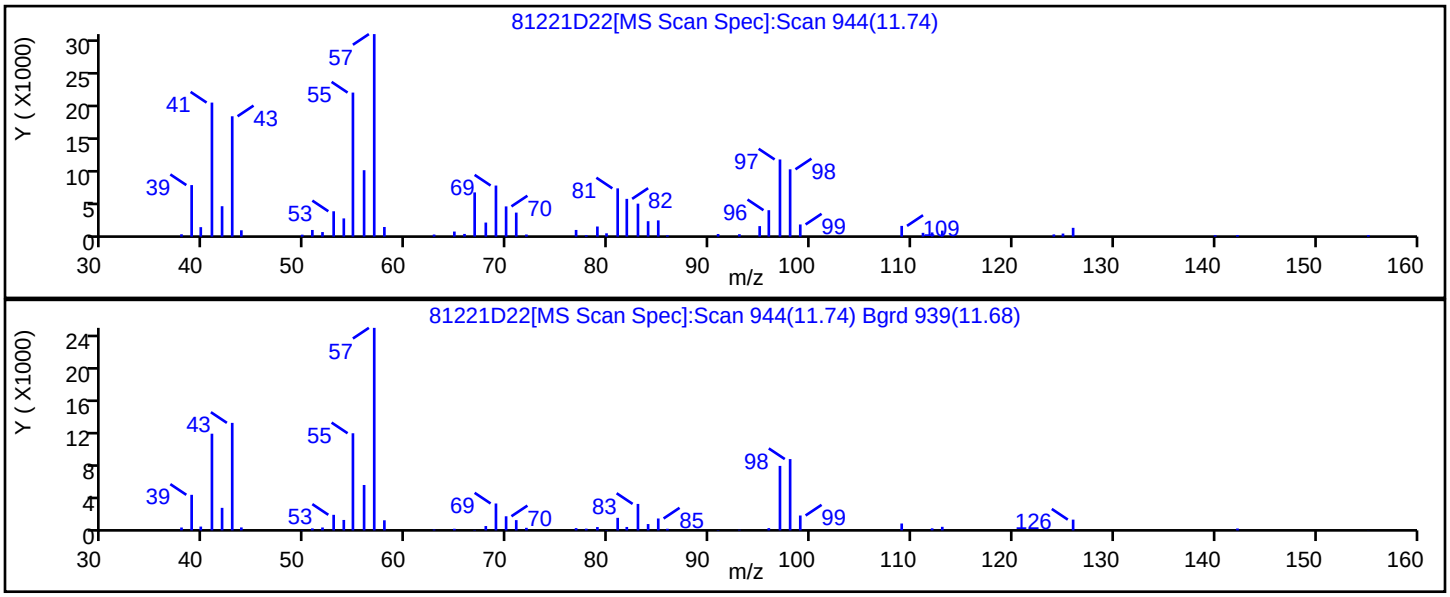
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 11.732

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



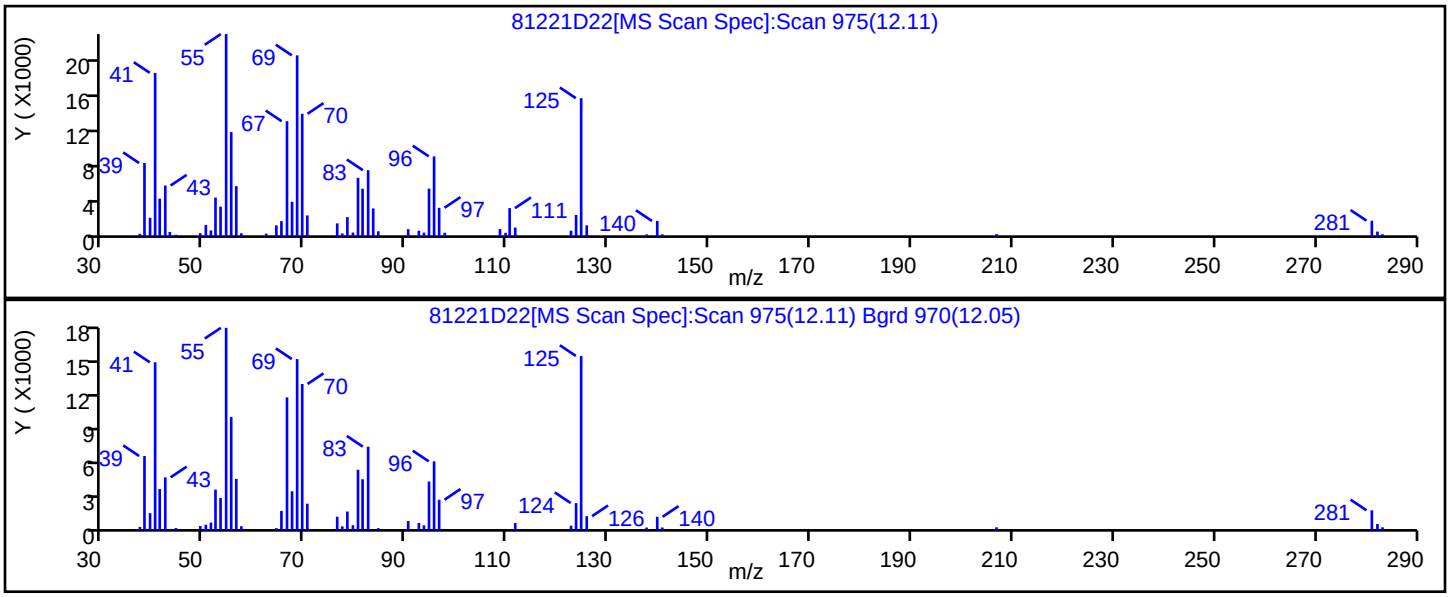
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.098

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



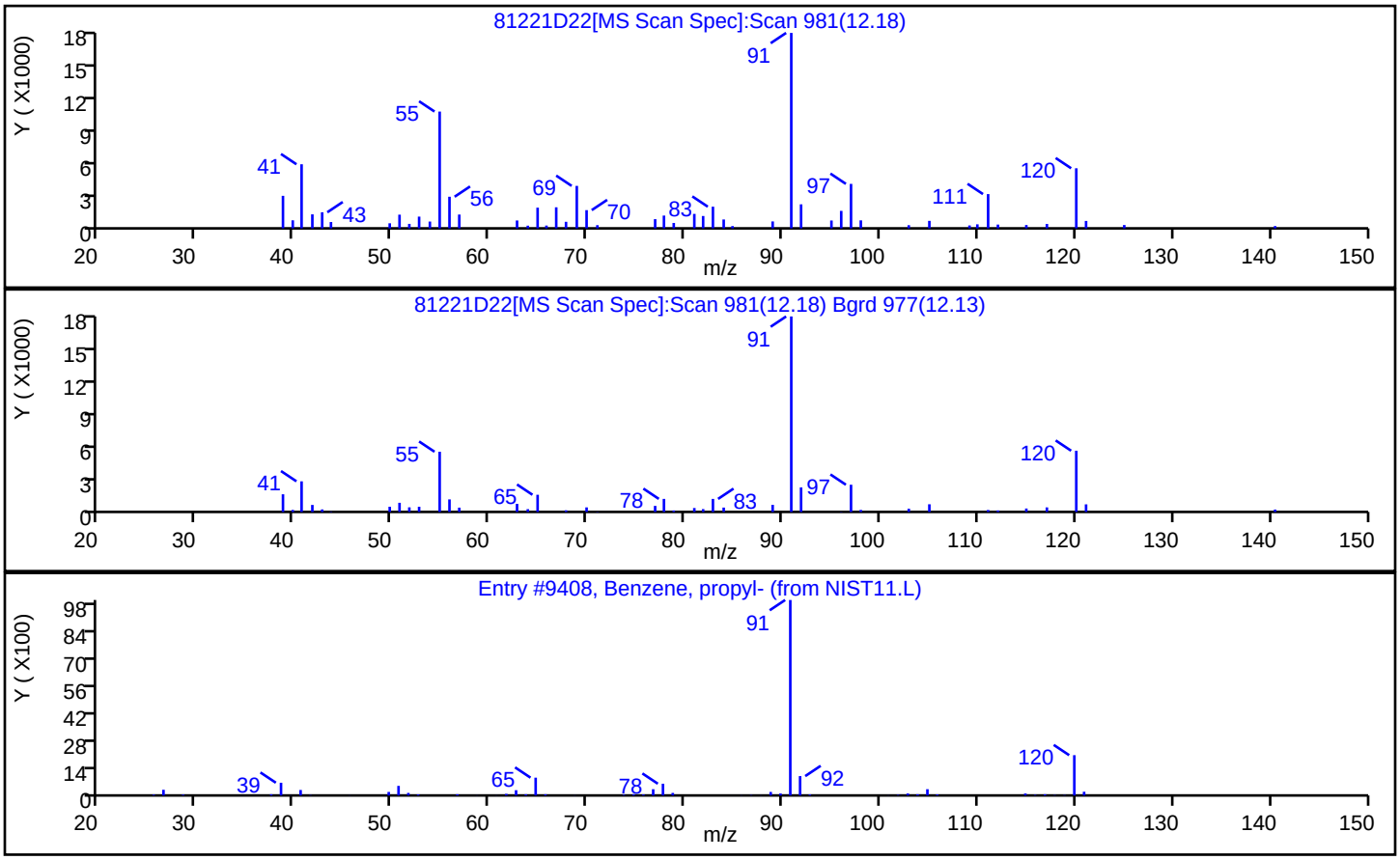
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.169

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, propyl-	103-65-1	NIST11	9408	C9H12	120	93



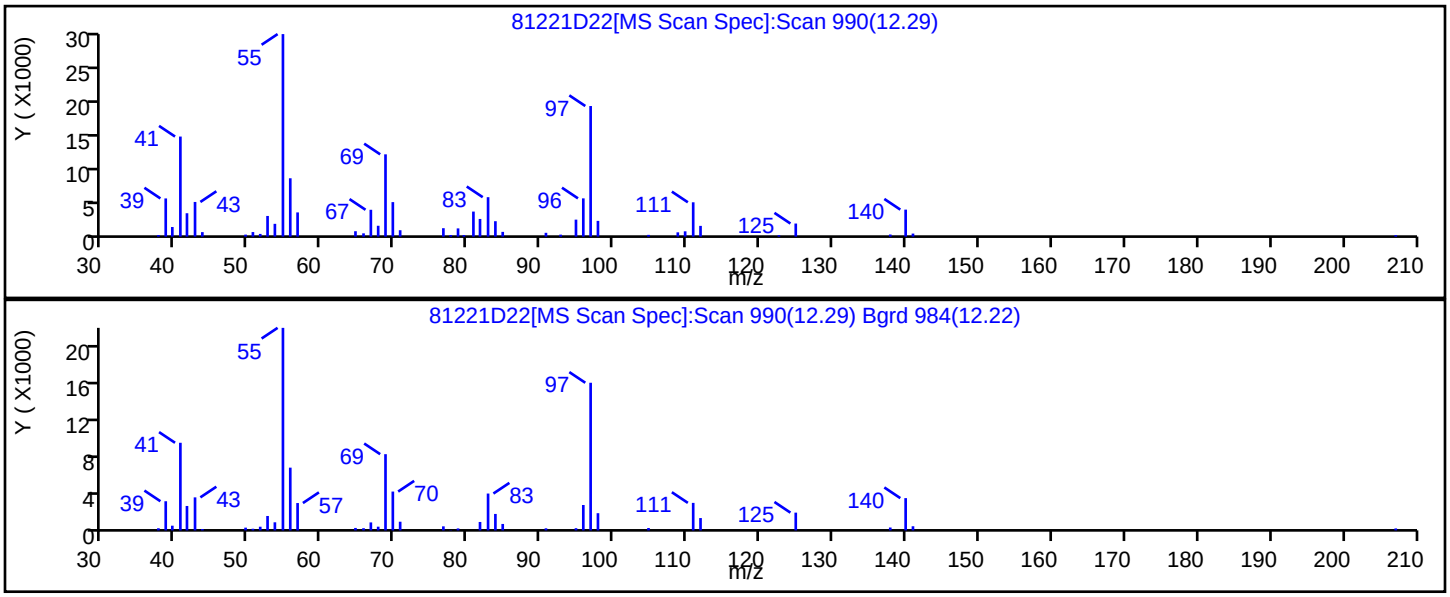
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.276

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



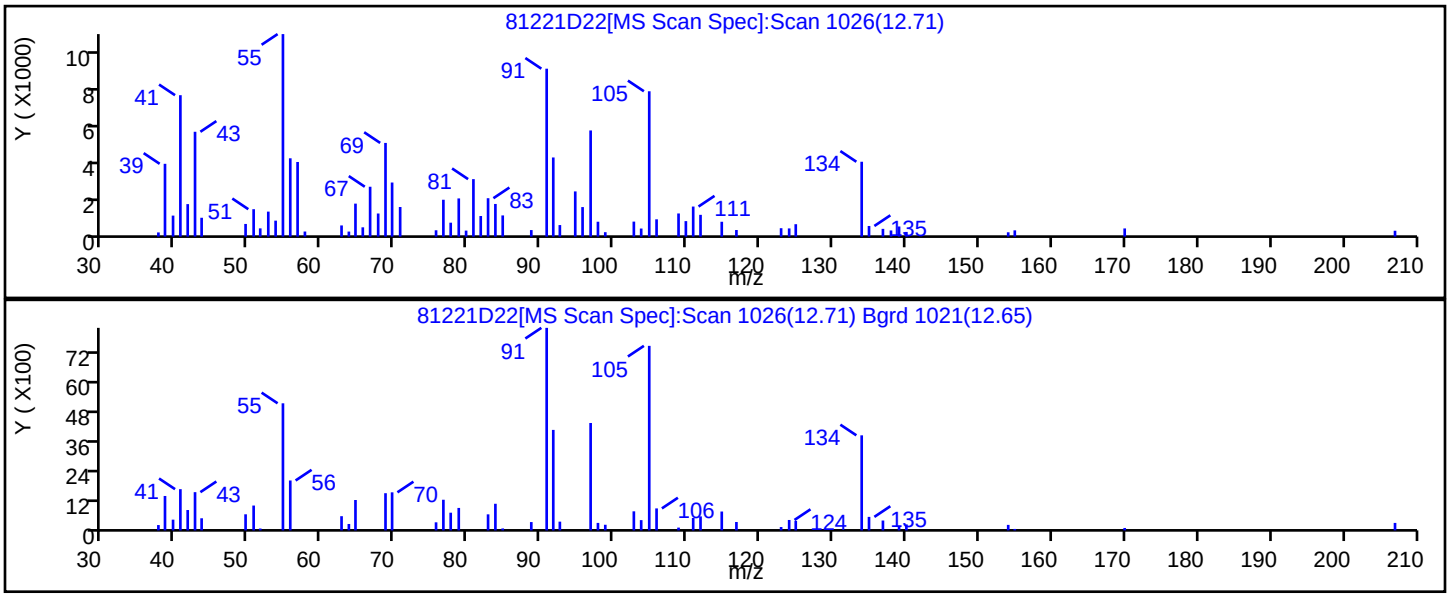
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.702

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



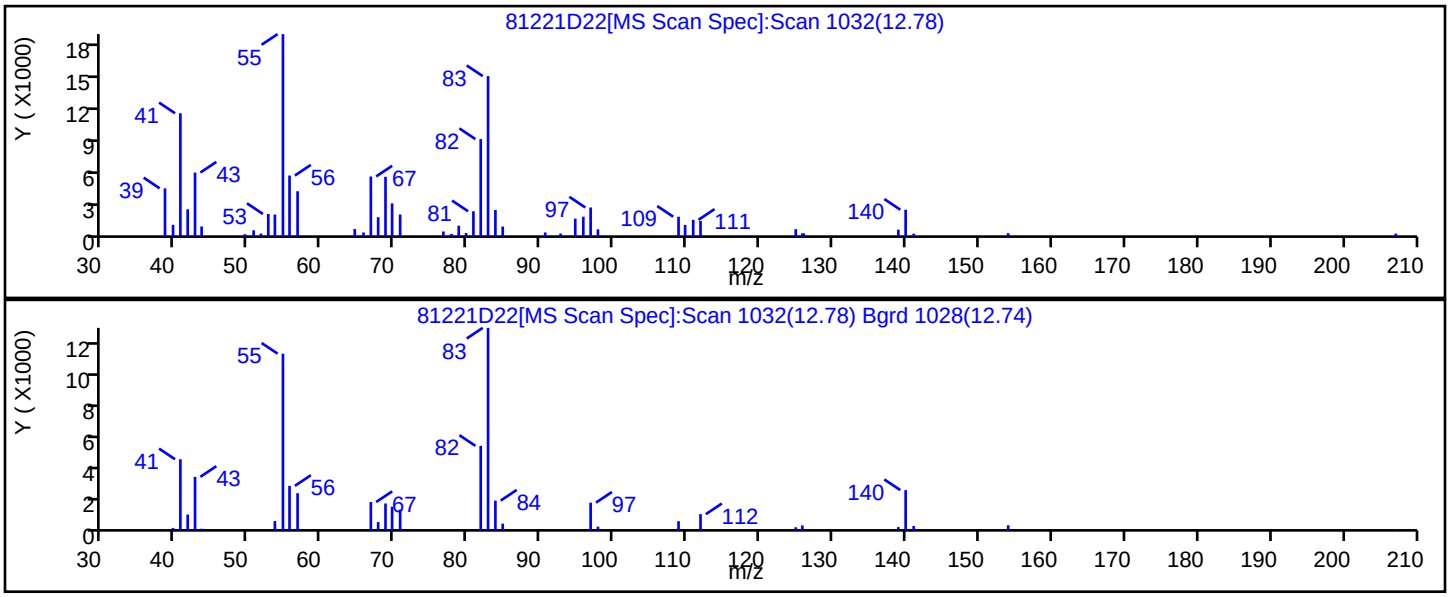
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.773

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



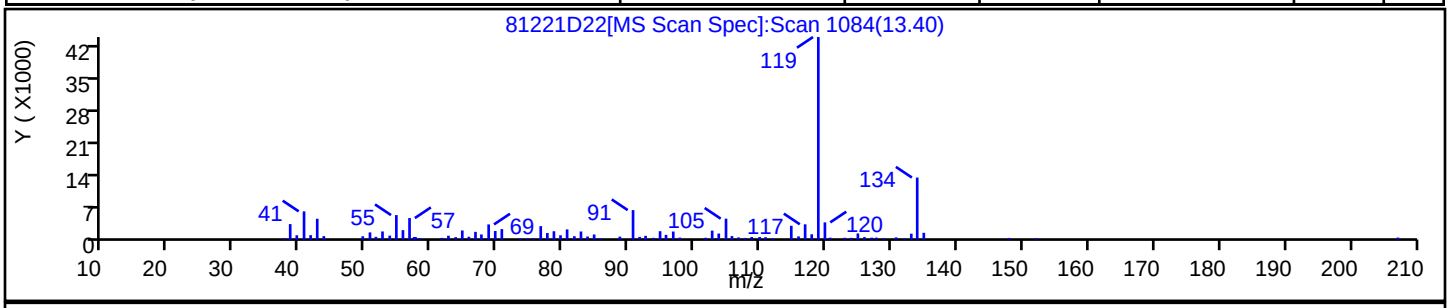
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

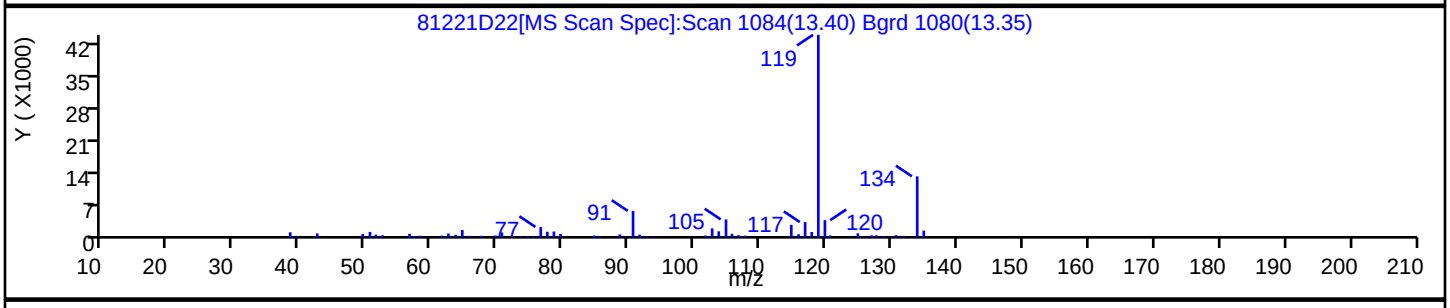
Shealy Environmental Services

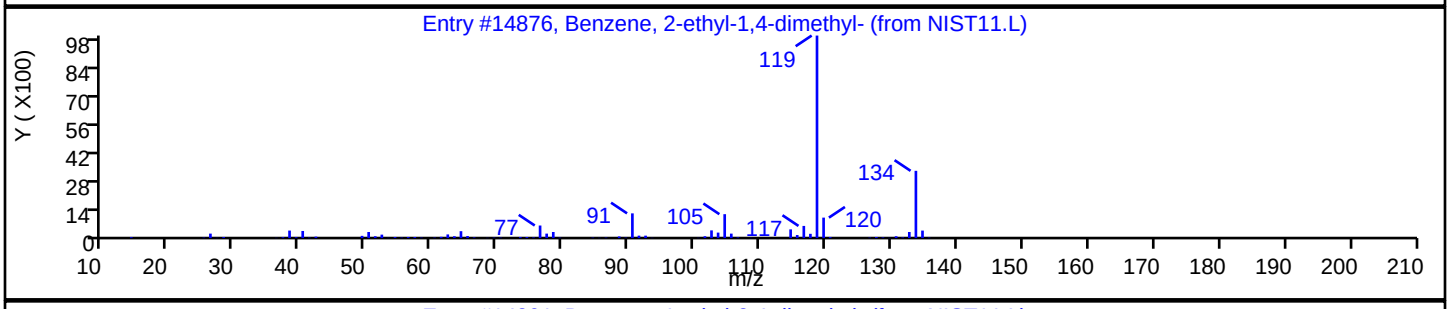
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

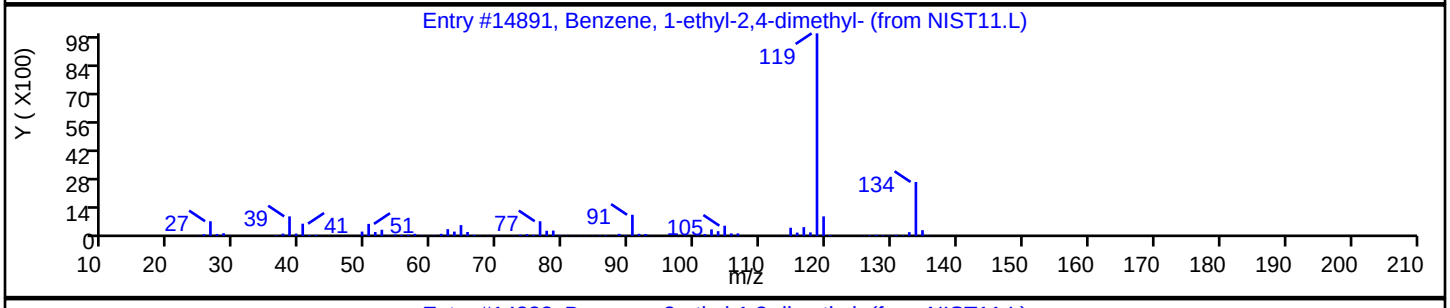
TIC @ 13.388

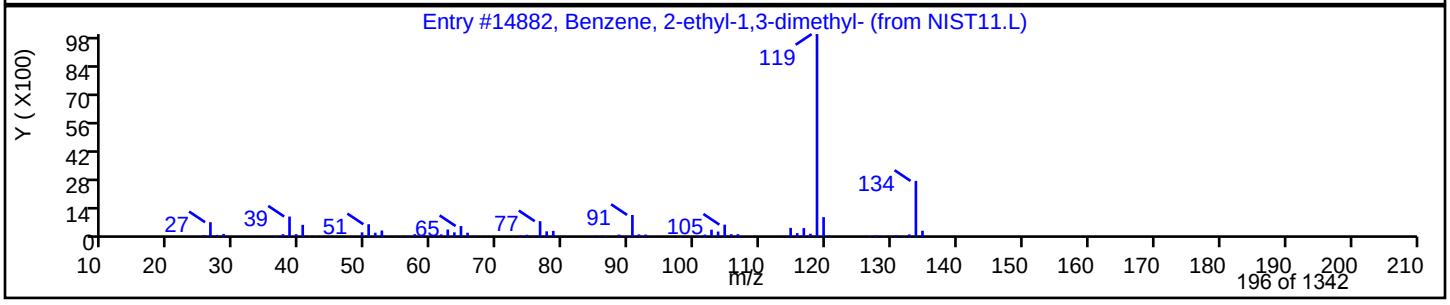
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NIST11	14876	C10H14	134	95
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NIST11	14891	C10H14	134	95
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NIST11	14882	C10H14	134	95











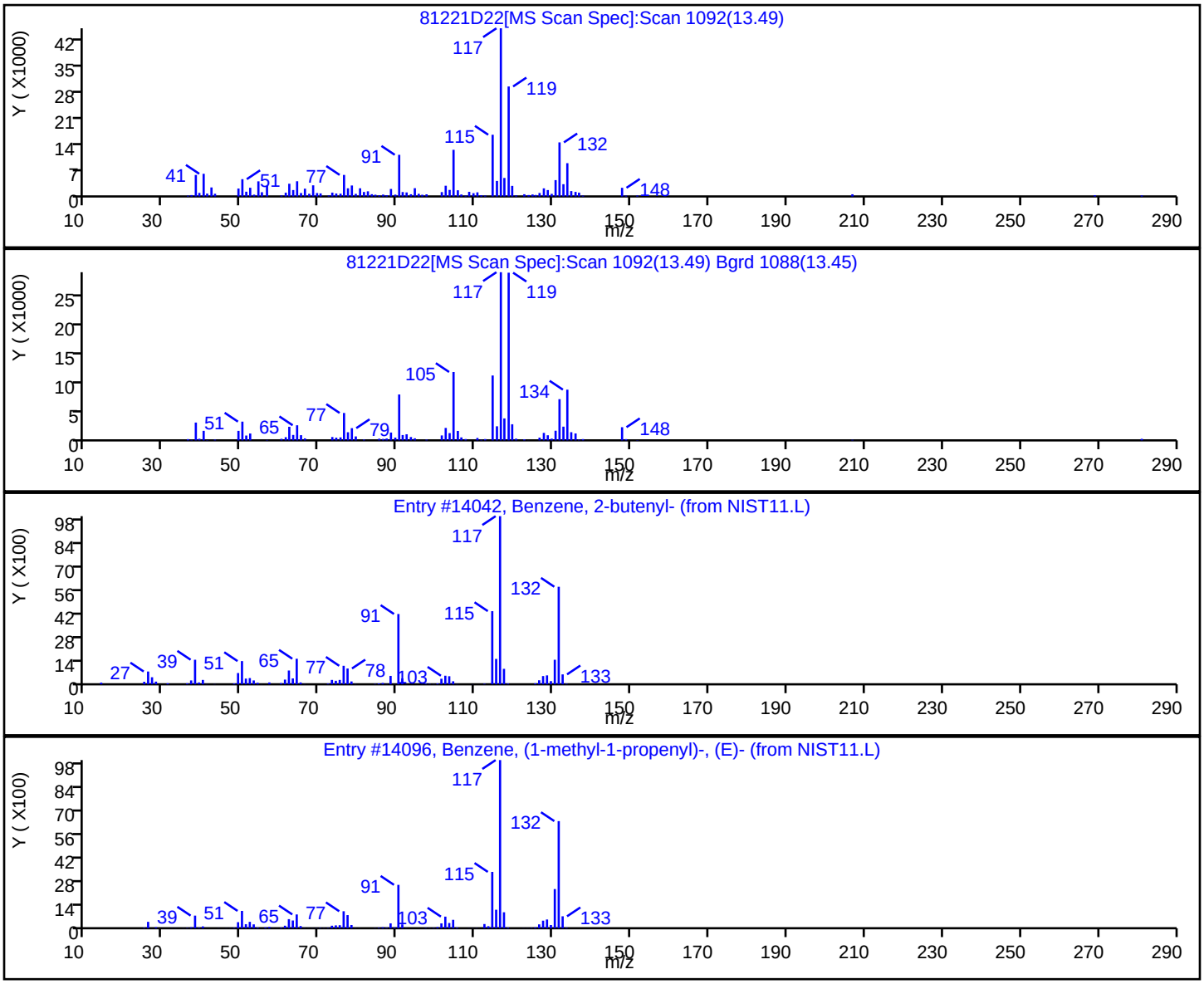
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.483

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 2-butenyl-	1560-06-1	NIST11	14042	C10H12	132	90
Benzene, (1-methyl-1-propenyl)-, (E)-	768-00-3	NIST11	14096	C10H12	132	89



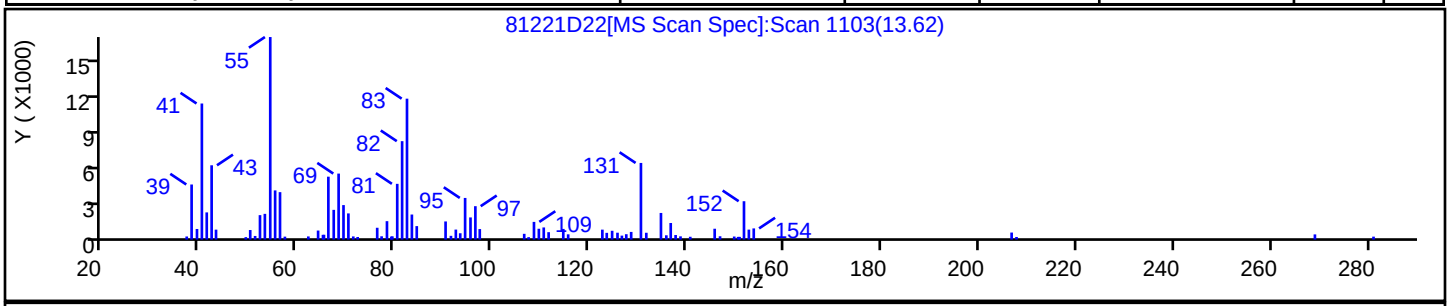
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

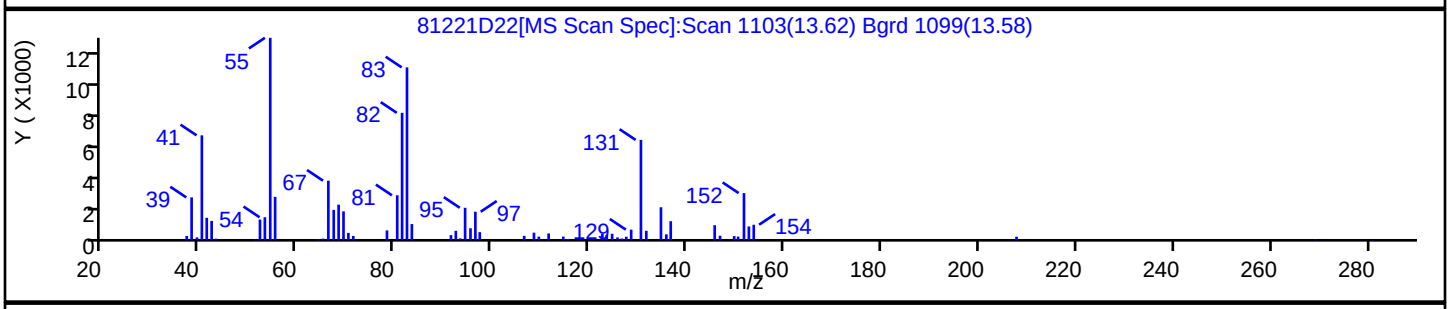
Shealy Environmental Services

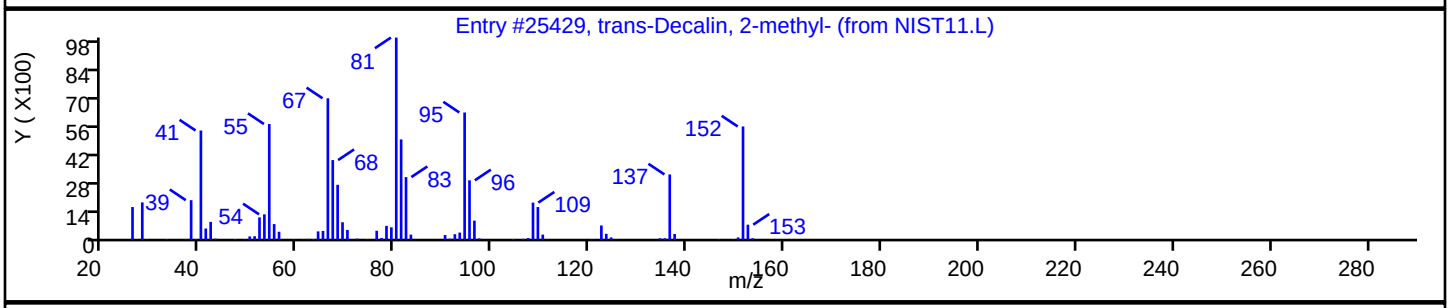
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

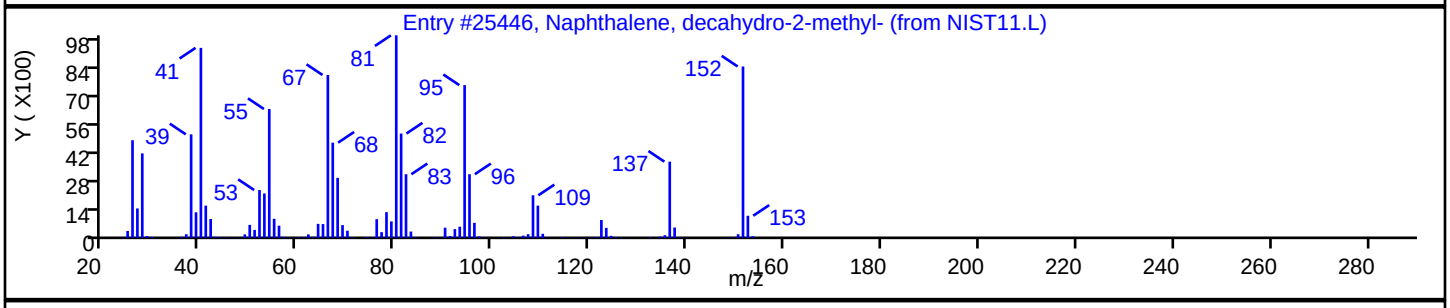
TIC @ 13.613

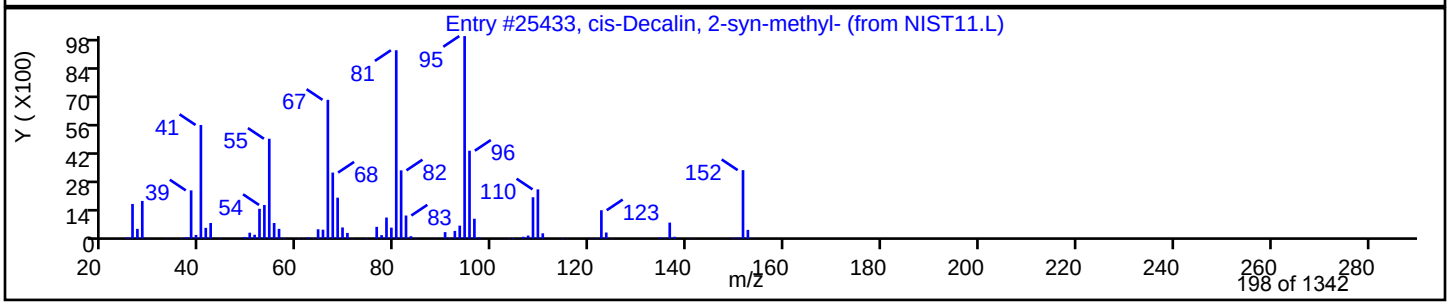
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
trans-Decalin, 2-methyl-	1000152-47-3	NIST11	25429	C11H20	152	92
Naphthalene, decahydro-2-methyl-	2958-76-1	NIST11	25446	C11H20	152	90
cis-Decalin, 2-syn-methyl-	1000155-85-6	NIST11	25433	C11H20	152	89











Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D

Injection Date: 21-Dec-2015 21:35:30 Inst. ID: msd8.i

Client ID: F6R34 Lab ID: QL16010-004

Sample Info: 8122115D.b, QL16010-004,20

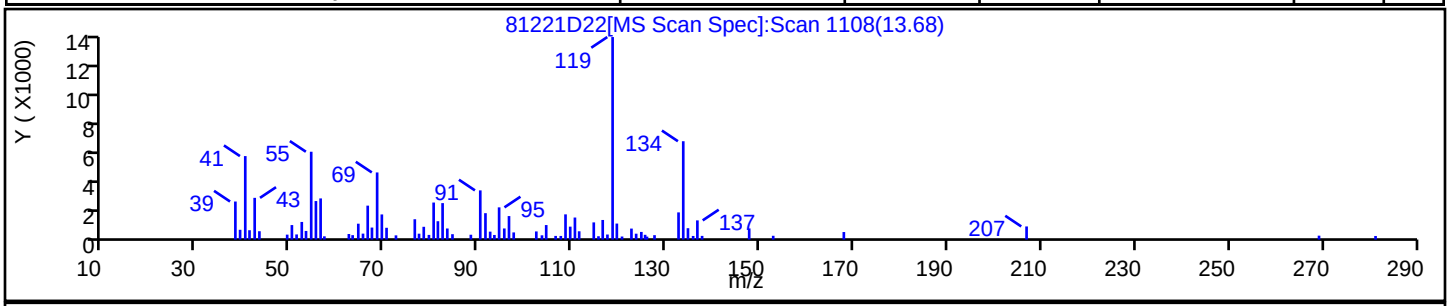
Purge Vol. 25 ML Dil. Factor: 20.0

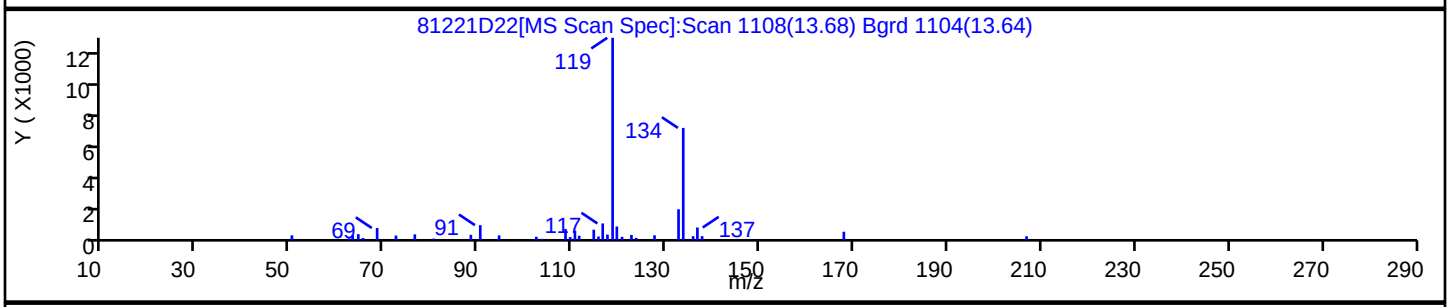
Operator: ALL

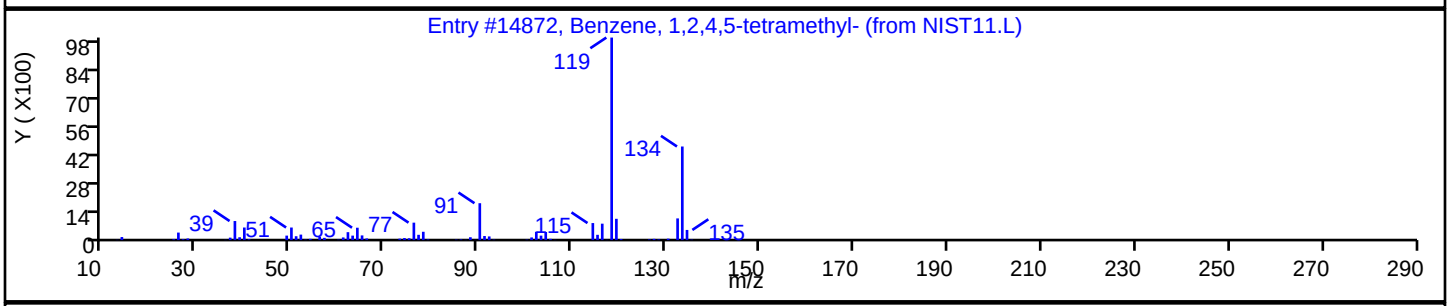
Column1: DB-624 (0.25 mm) Detector: MS Scan

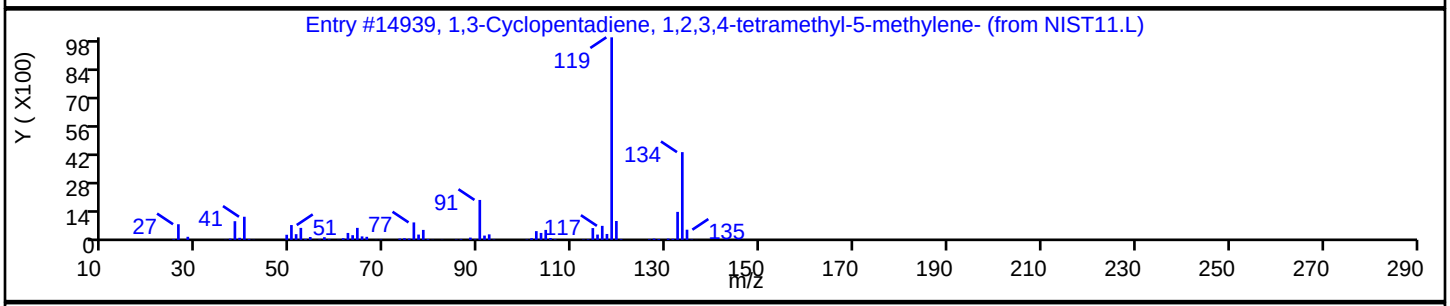
TIC @ 13.672

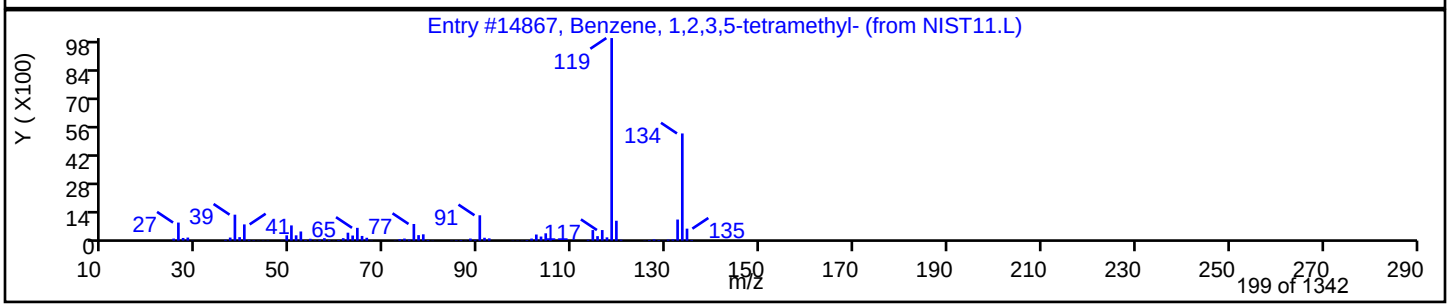
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST11	14872	C10H14	134	95
1,3-Cyclopentadiene, 1,2,3,4-tetramethyl	76089-59-3	NIST11	14939	C10H14	134	95
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NIST11	14867	C10H14	134	93











Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D

Injection Date: 21-Dec-2015 21:35:30 Inst. ID: msd8.i

Client ID: F6R34 Lab ID: QL16010-004

Sample Info: 8122115D.b, QL16010-004,20

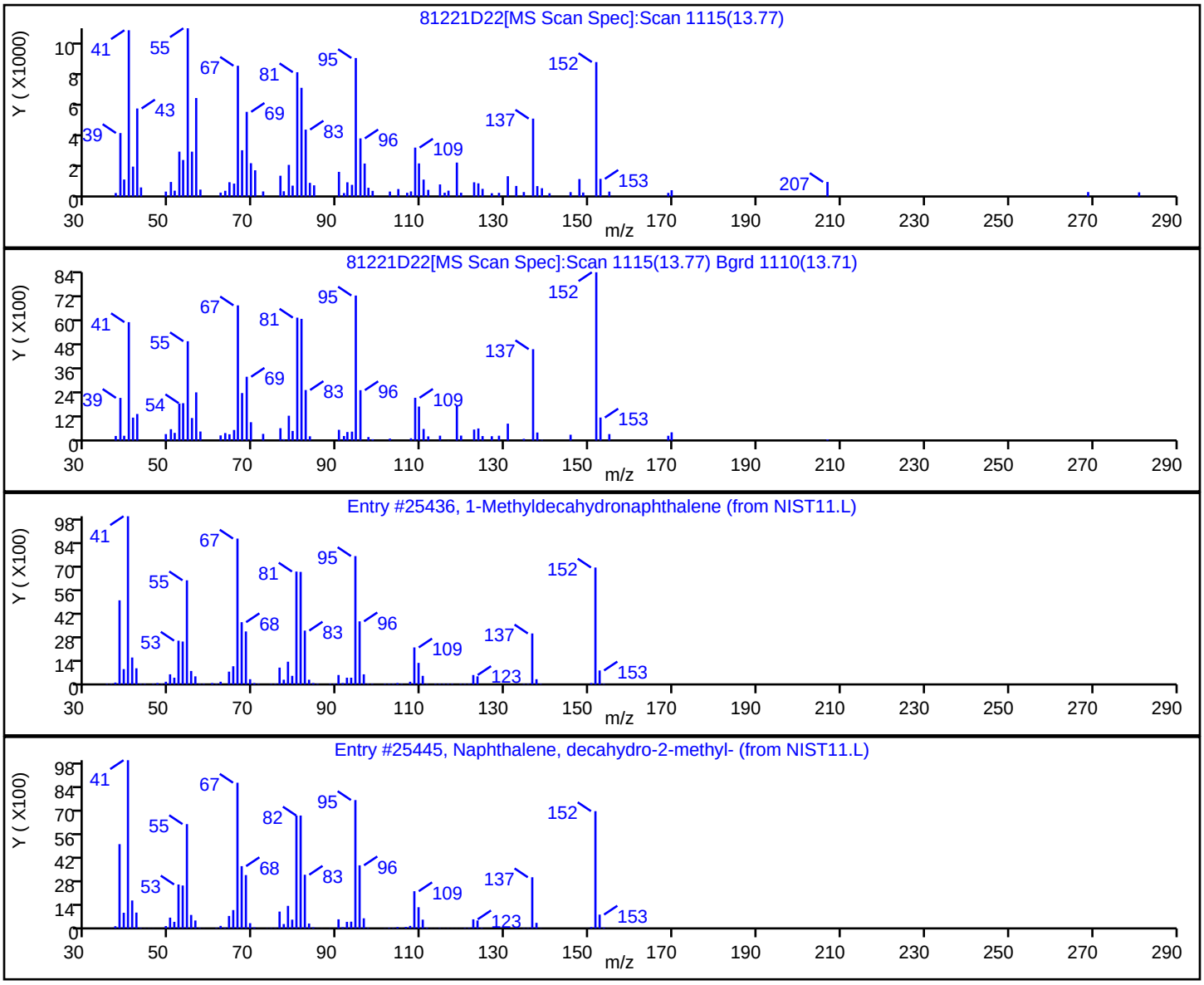
Purge Vol. 25 ML Dil. Factor: 20.0

Operator: ALL

Column1: DB-624 (0.25 mm) Detector: MS Scan

TIC @ 13.755

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1-Methyldecahydronaphthalene	2958-75-0	NIST11	25436	C11H20	152	96
Naphthalene, decahydro-2-methyl-	2958-76-1	NIST11	25445	C11H20	152	96



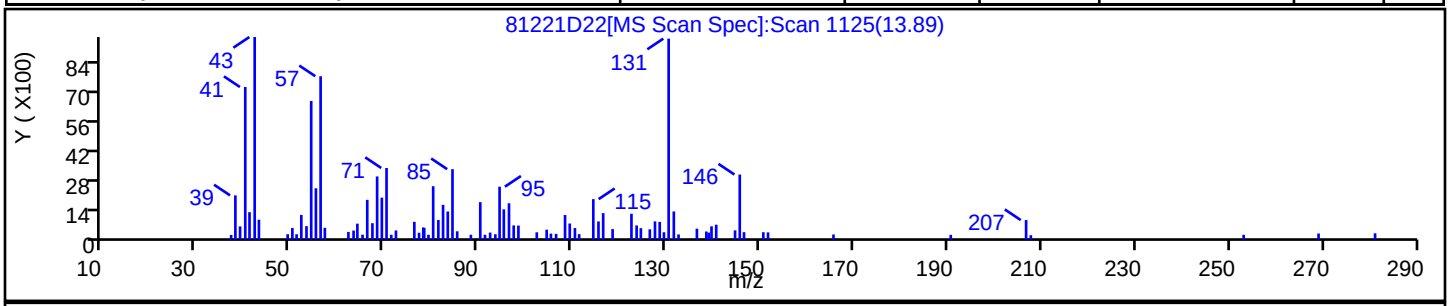
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

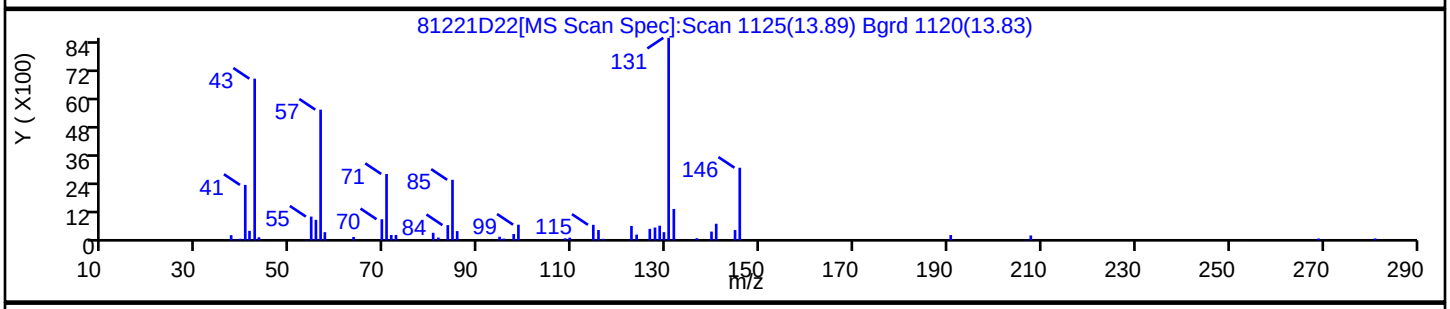
Shealy Environmental Services

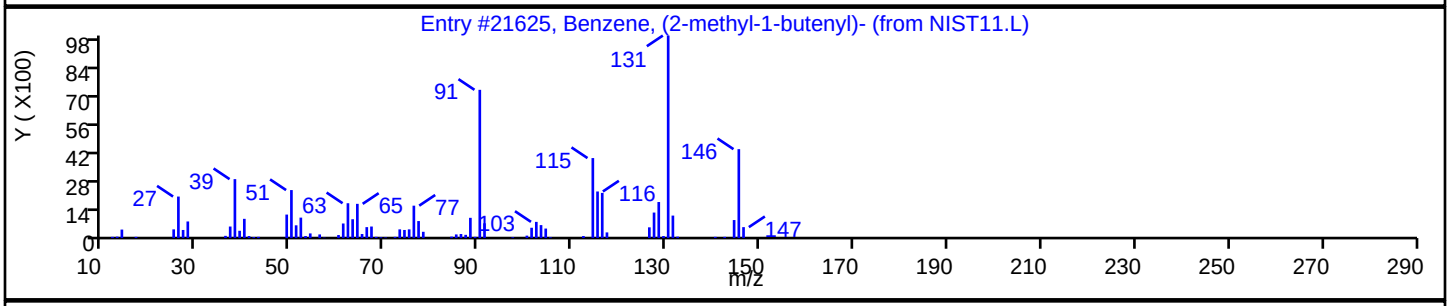
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

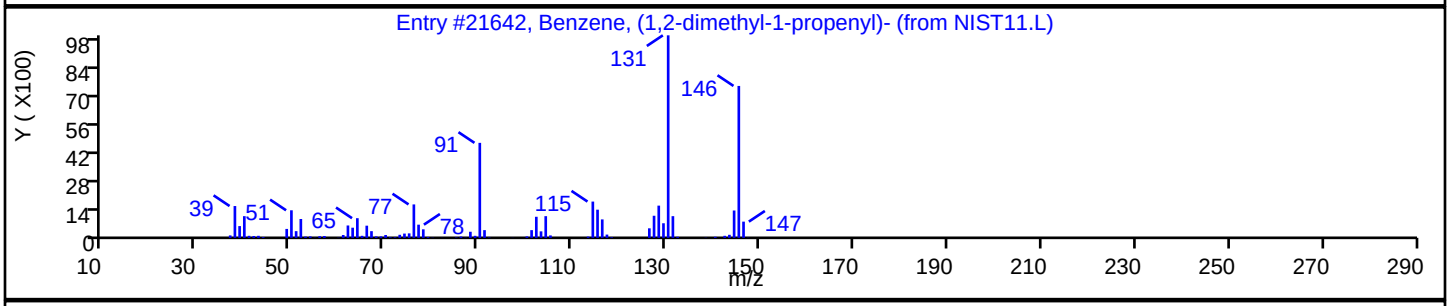
TIC @ 13.873

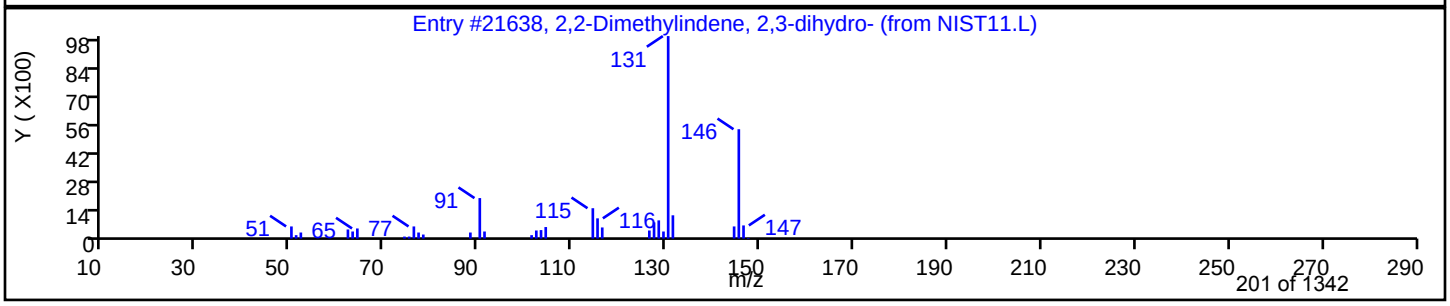
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, (2-methyl-1-butenyl)-	56253-64-6	NIST11	21625	C11H14	146	91
Benzene, (1,2-dimethyl-1-propenyl)-	769-57-3	NIST11	21642	C11H14	146	95
2,2-Dimethylindene, 2,3-dihydro-	20836-11-7	NIST11	21638	C11H14	146	91











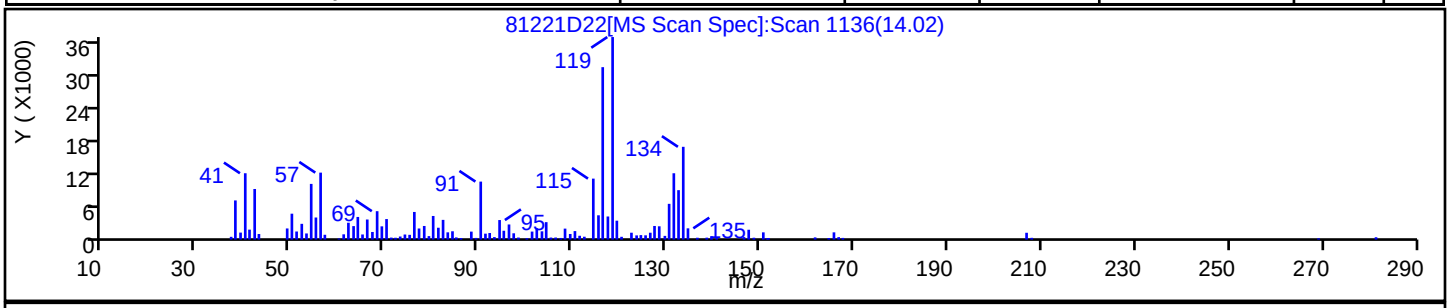
Report Date: 05-Jan-2016 09:40:31 AIM Revision: 1.0 26-May-2015 13:41:26

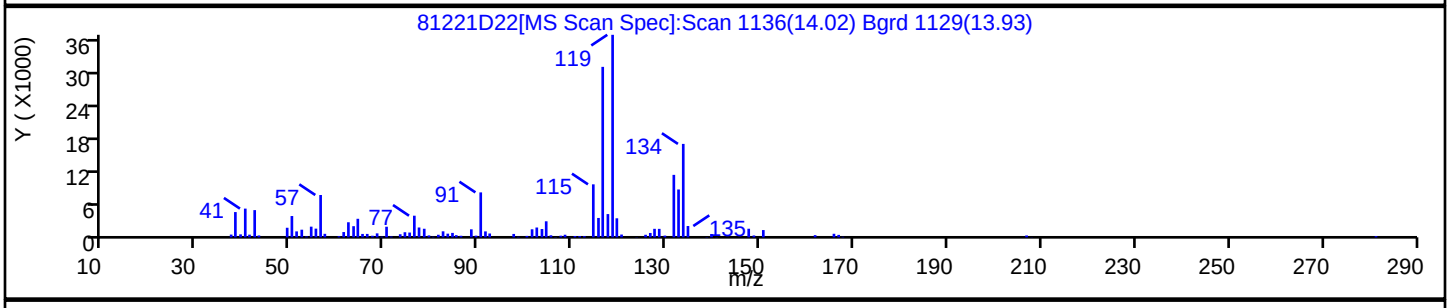
Shealy Environmental Services

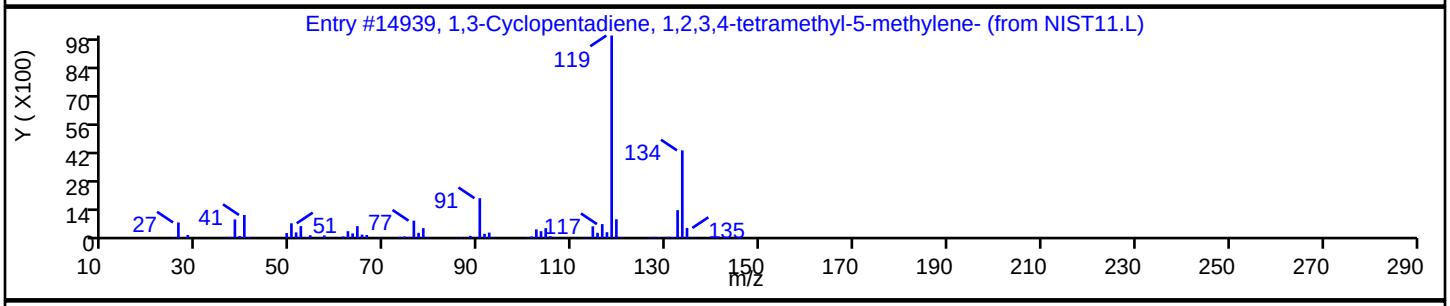
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

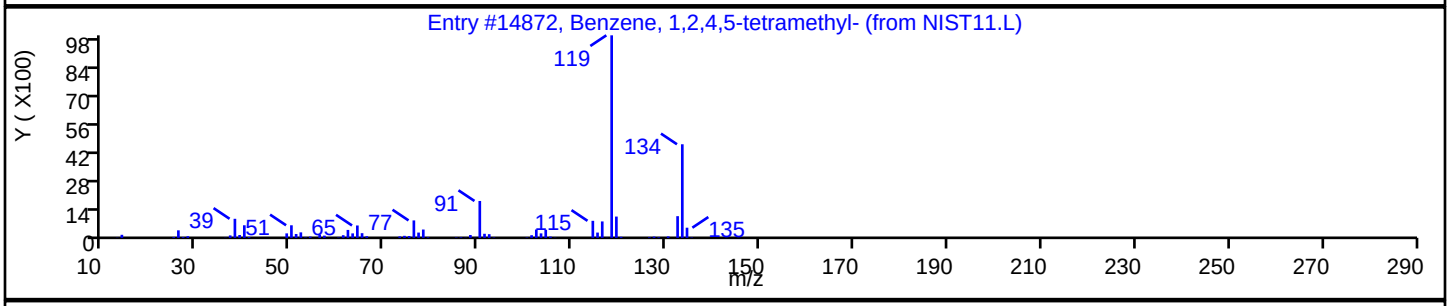
TIC @ 14.004

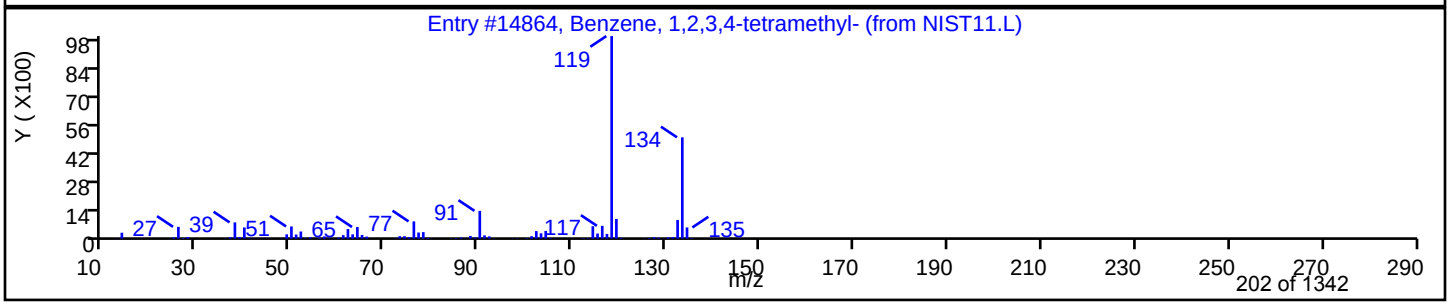
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1,3-Cyclopentadiene, 1,2,3,4-tetramethyl	76089-59-3	NIST11	14939	C10H14	134	97
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NIST11	14872	C10H14	134	95
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NIST11	14864	C10H14	134	95











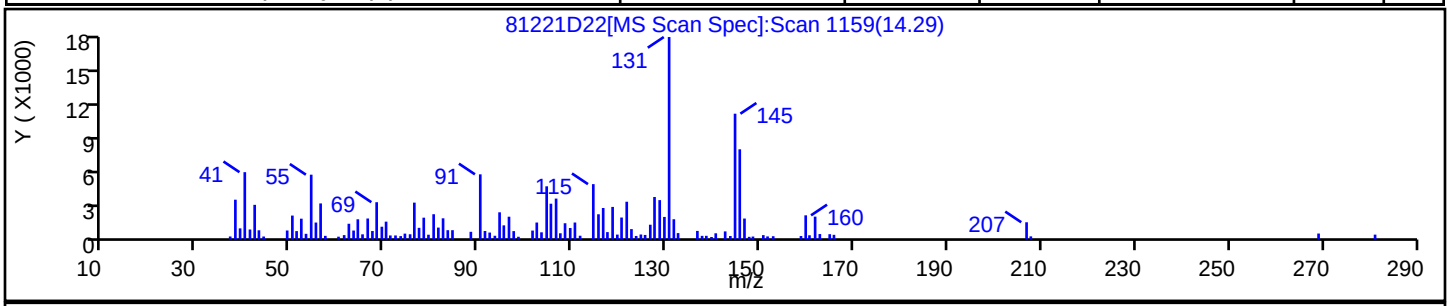
Report Date: 05-Jan-2016 09:40:32 AIM Revision: 1.0 26-May-2015 13:41:26

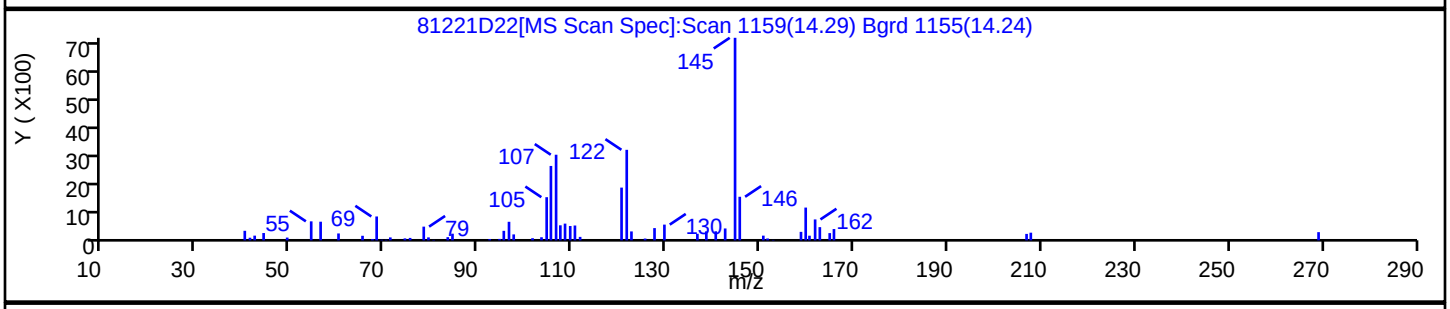
Shealy Environmental Services

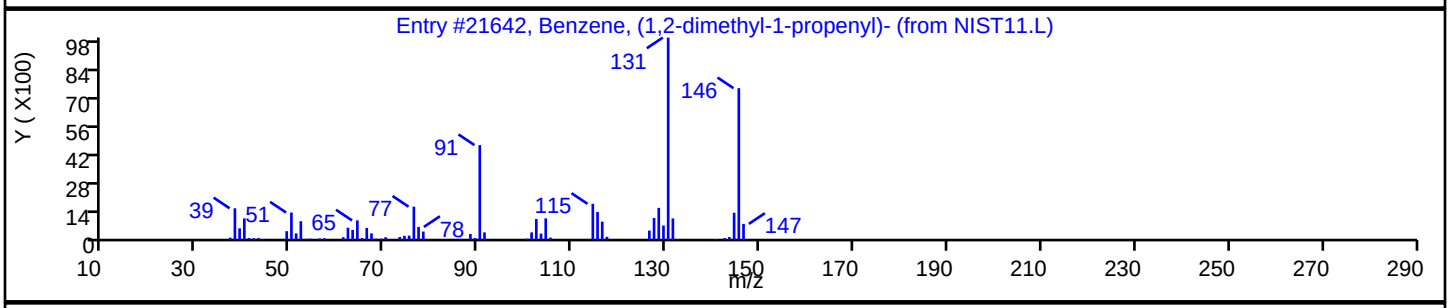
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

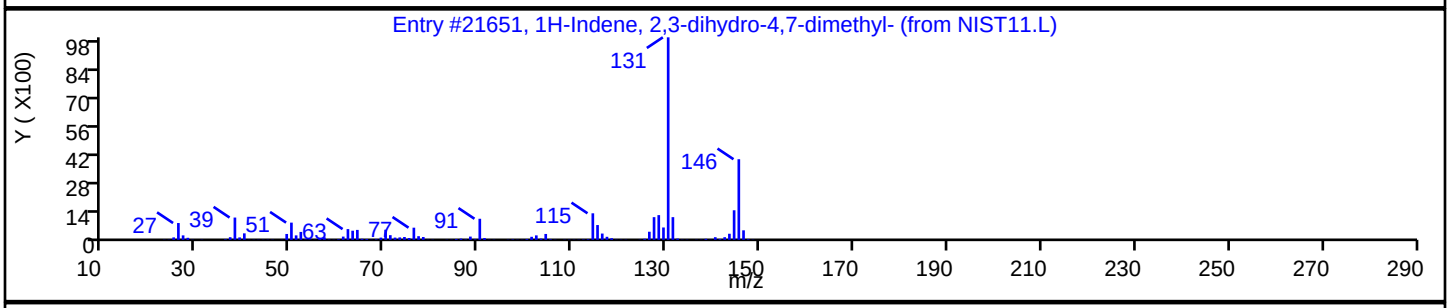
TIC @ 14.276

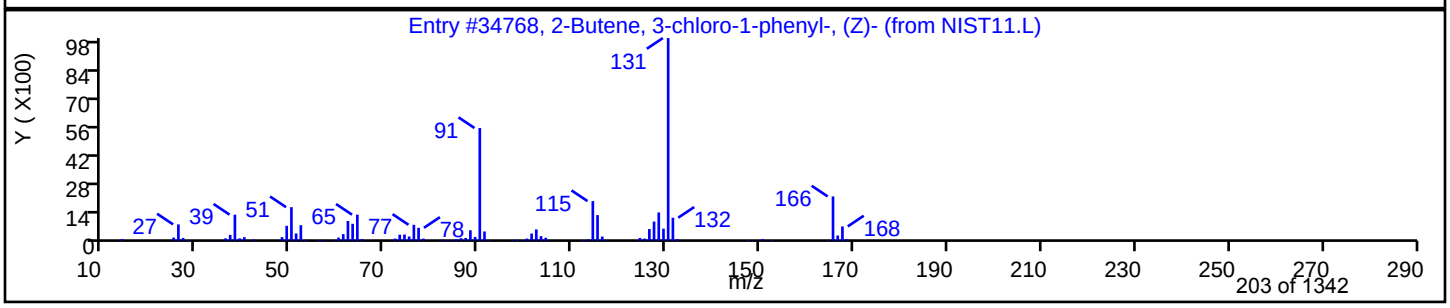
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, (1,2-dimethyl-1-propenyl)-	769-57-3	NIST11	21642	C11H14	146	95
1H-Indene, 2,3-dihydro-4,7-dimethyl-	6682-71-9	NIST11	21651	C11H14	146	93
2-Butene, 3-chloro-1-phenyl-, (Z)-	16608-68-7	NIST11	34768	C10H11Cl	166	93











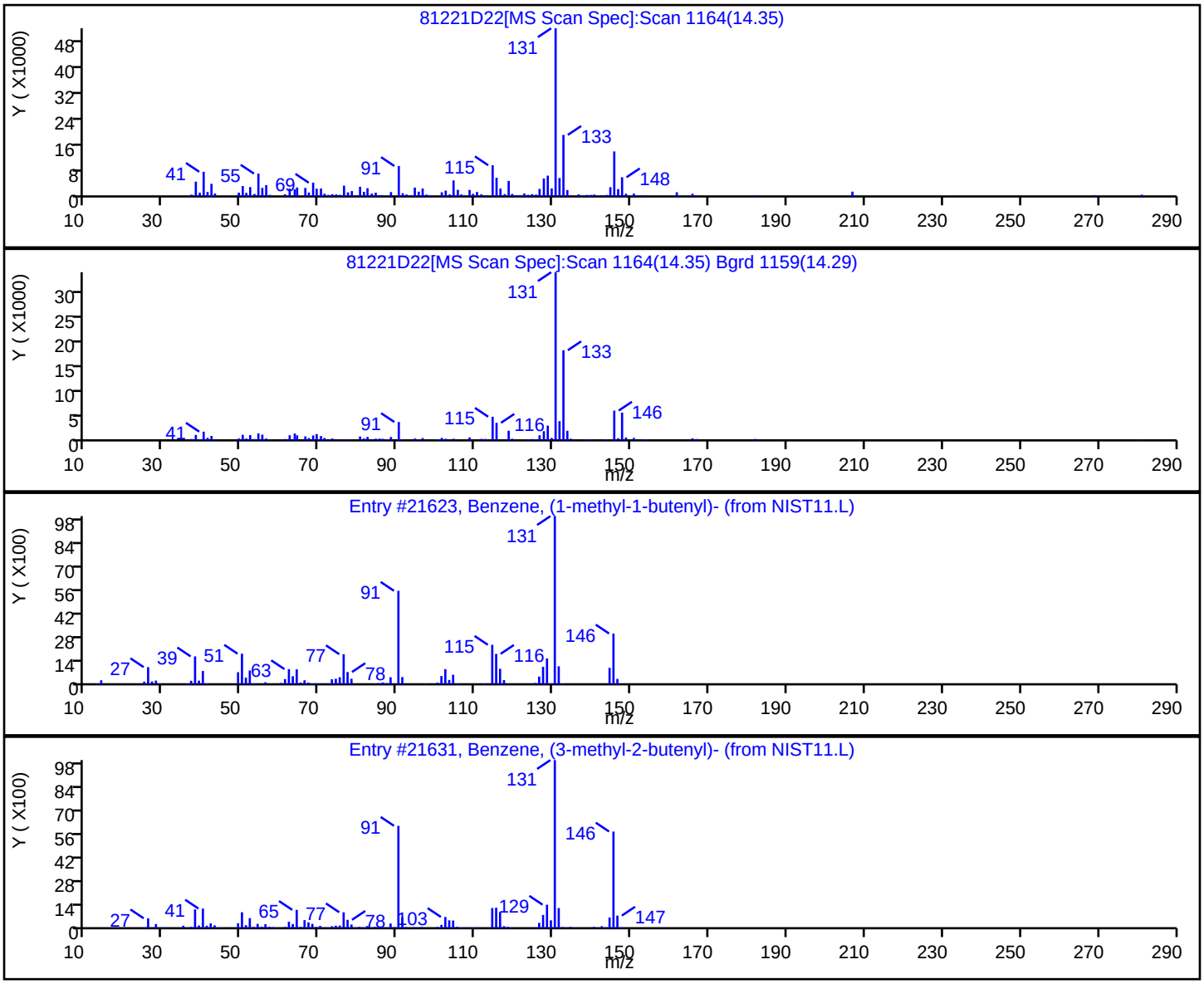
Report Date: 05-Jan-2016 09:40:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.335

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, (1-methyl-1-butenyl)-	53172-84-2	NIST11	21623	C11H14	146	90
Benzene, (3-methyl-2-butenyl)-	4489-84-3	NIST11	21631	C11H14	146	89



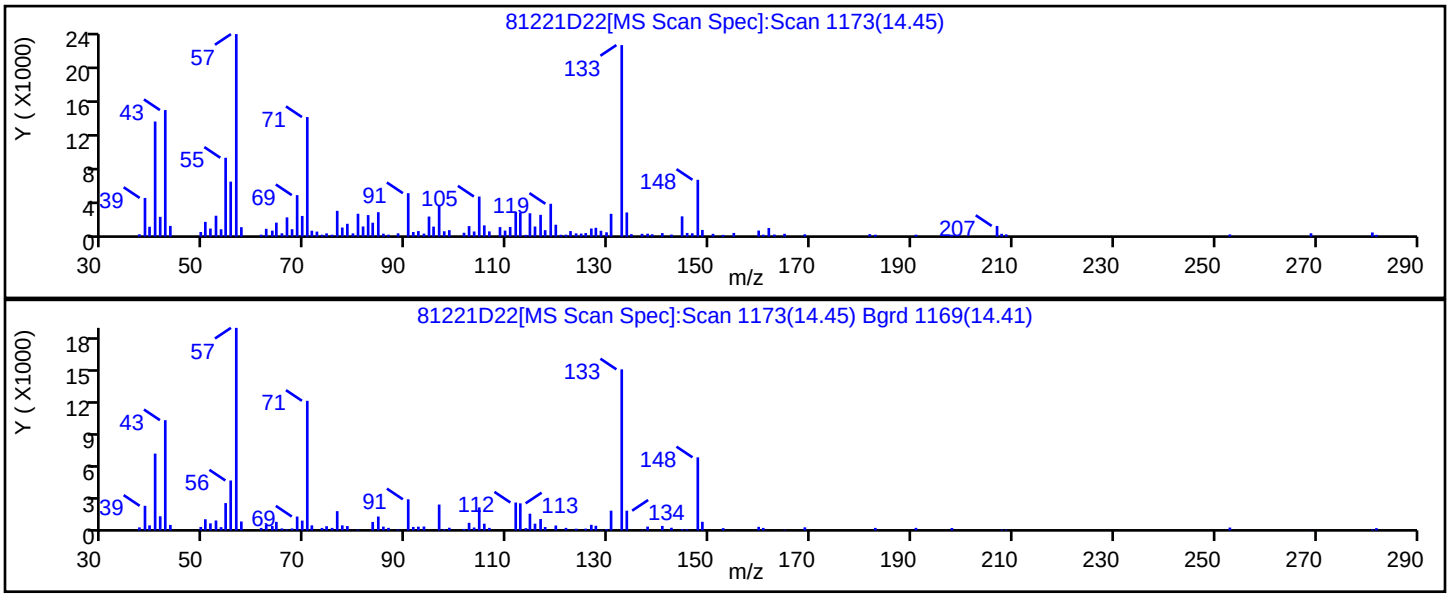
Report Date: 05-Jan-2016 09:40:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.441

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



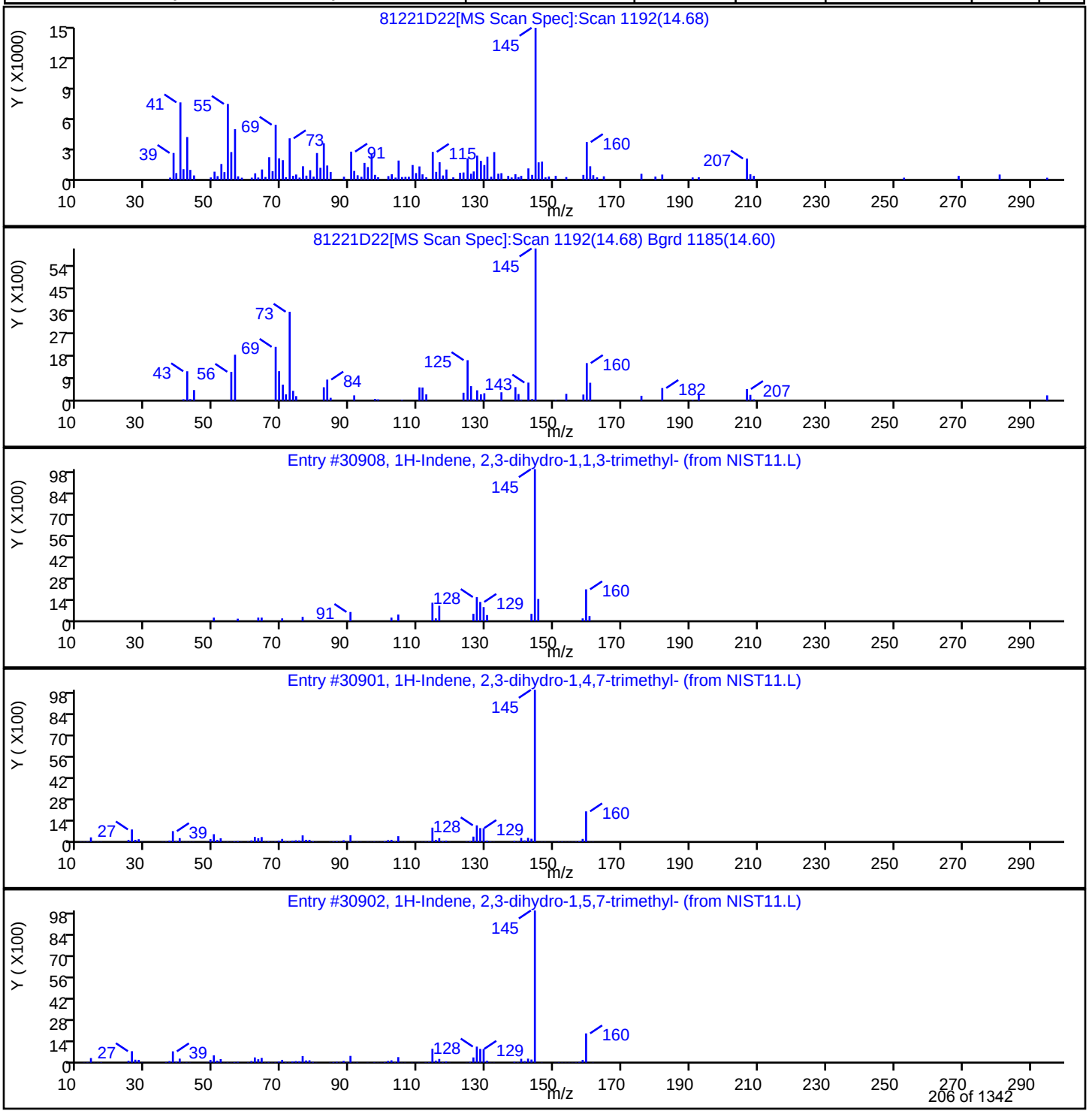
Report Date: 05-Jan-2016 09:40:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.666

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1H-Indene, 2,3-dihydro-1,1,3-trimethyl-	2613-76-5	NIST11	30908	C12H16	160	95
1H-Indene, 2,3-dihydro-1,4,7-trimethyl-	54340-87-3	NIST11	30901	C12H16	160	93
1H-Indene, 2,3-dihydro-1,5,7-trimethyl-	54340-88-4	NIST11	30902	C12H16	160	86



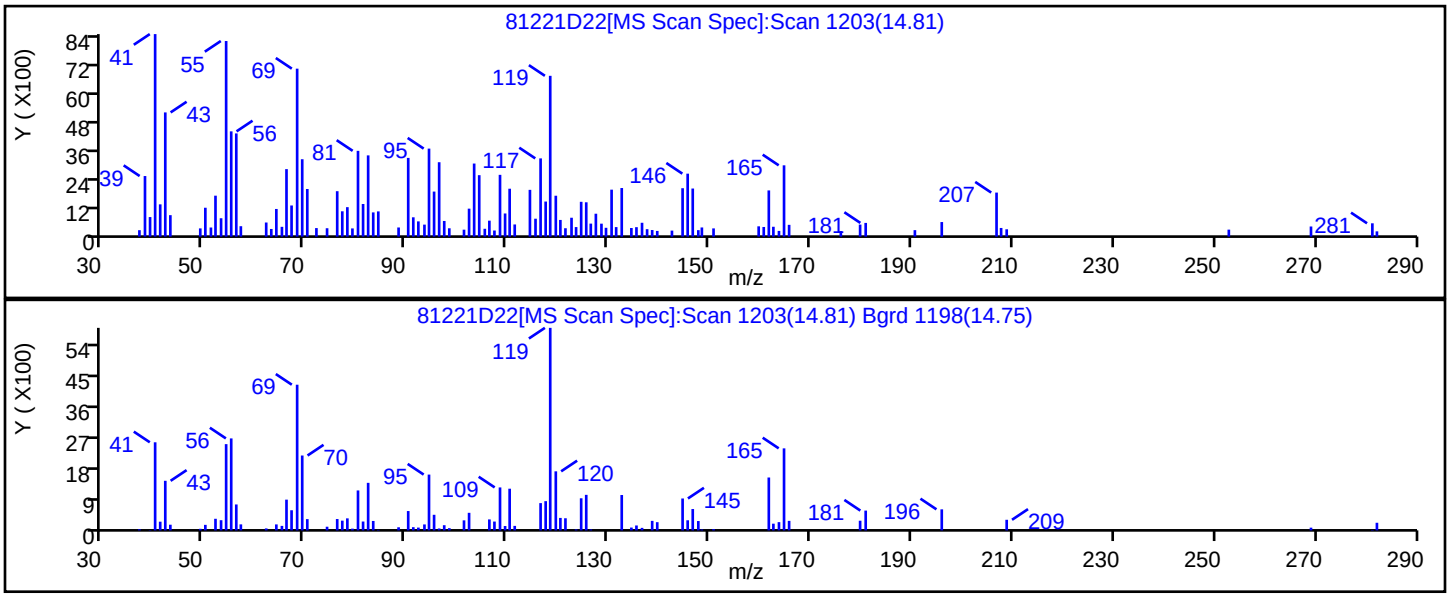
Report Date: 05-Jan-2016 09:40:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.796

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



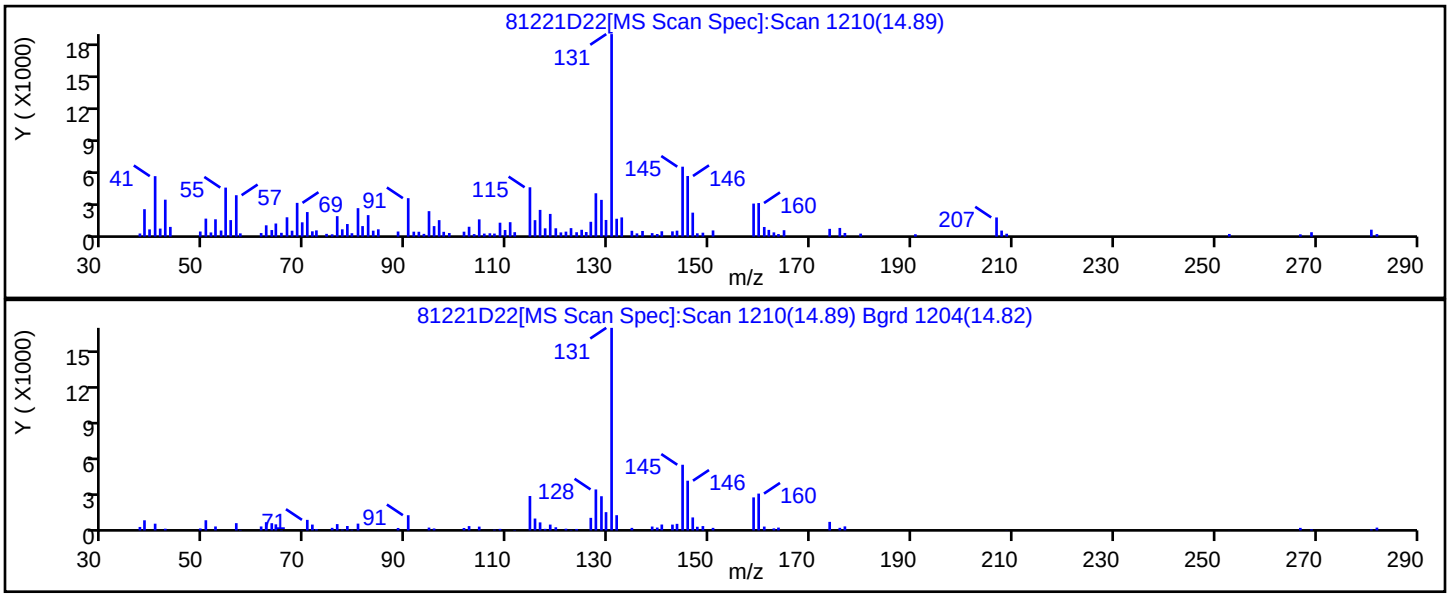
Report Date: 05-Jan-2016 09:40:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.879

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



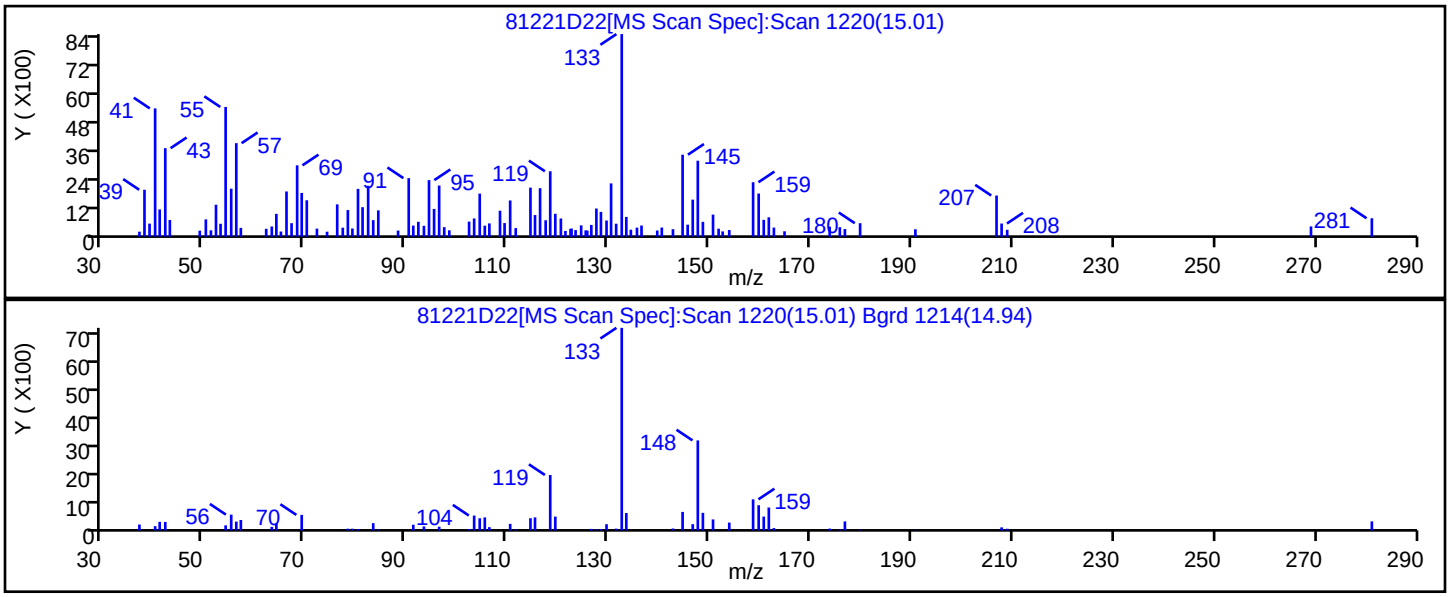
Report Date: 05-Jan-2016 09:40:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 14.998

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



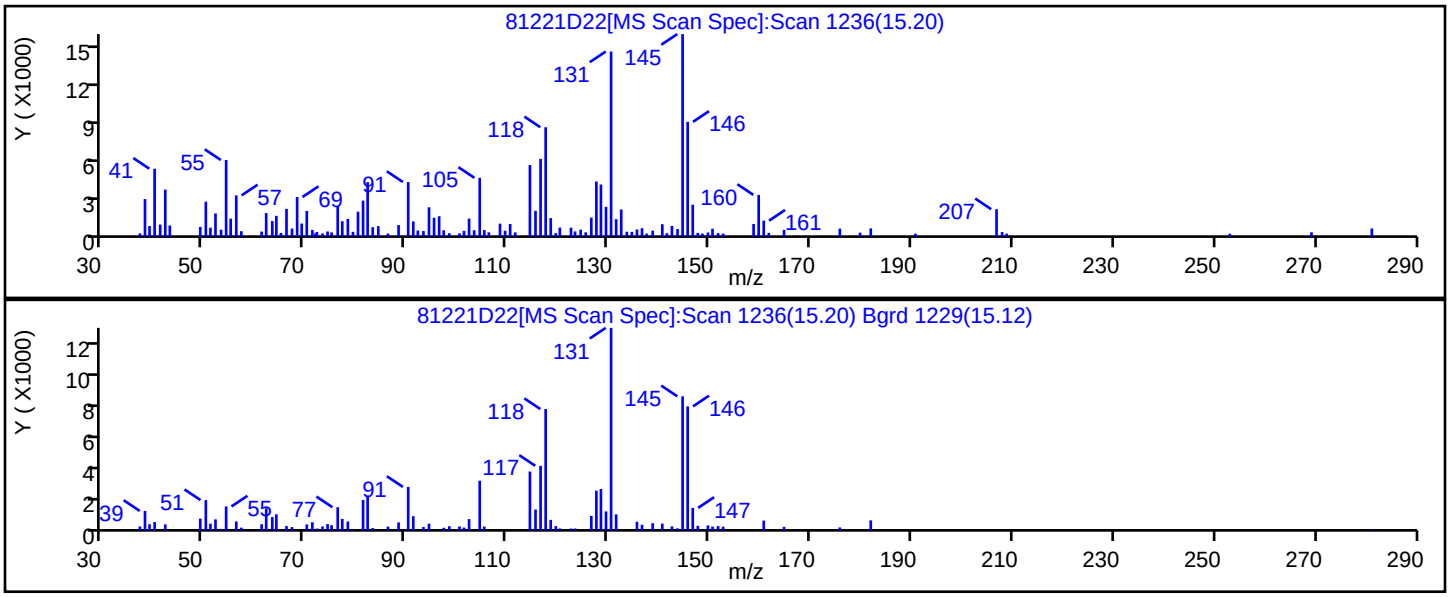
Report Date: 05-Jan-2016 09:40:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 15.187

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



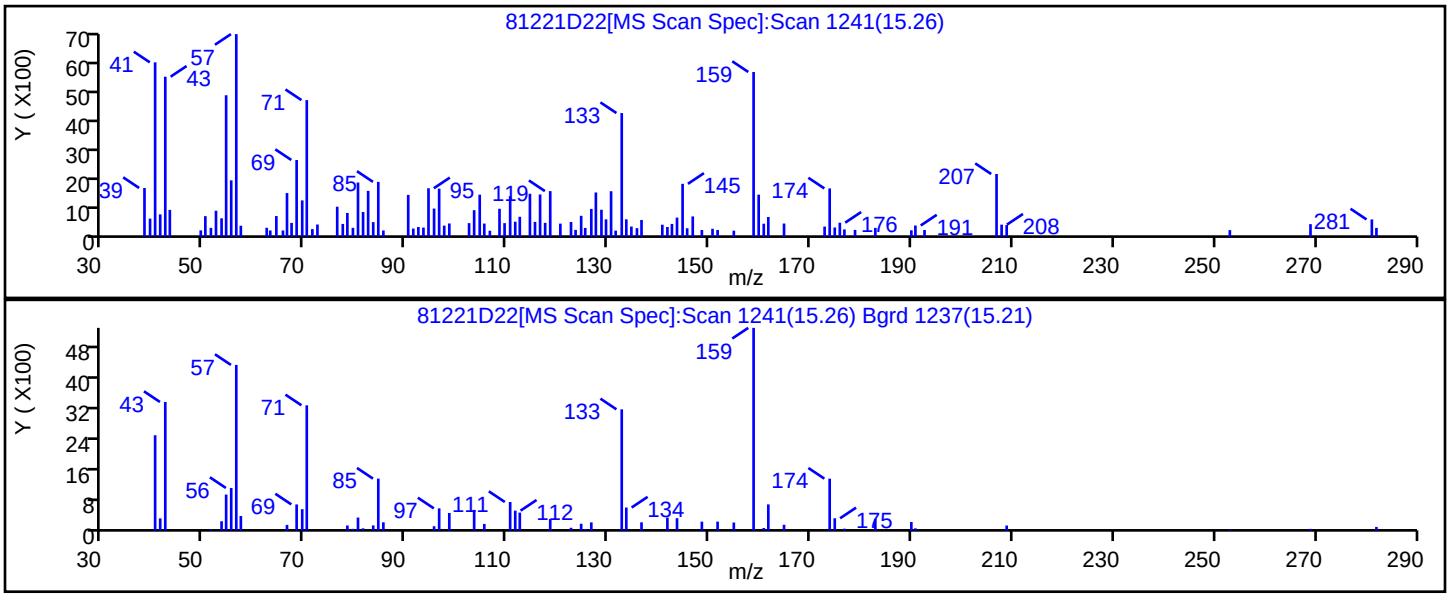
Report Date: 05-Jan-2016 09:40:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D22.D		
Injection Date:	21-Dec-2015 21:35:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122115D.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 15.246

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R35

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-005

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D18

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U
67-64-1	Acetone	3.0	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R35

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-005

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D18

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.16	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m, p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R35

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: Trace VOA
Level: TRACE
Matrix: Water
Lab Sample ID: QL16010-005
Sample wt/vol: 25.0 (g/mL) mL
Lab File ID: 81221D18
% Solids:
Date Received: 12/16/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/21/2015
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 25.0 (mL)
Injection Volume:
Cleanup Types:
pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Report Date: 22-Dec-2015 08:29:01 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D18.D		
Lab Sample ID:	QL16010-005	Client Sample ID:	F6R35
Injection Date:	21-Dec-2015 19:49:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, QL16010-005		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	18
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	22-Dec-2015 08:16:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
1 Dichlorodifluoromethane	85.0		1.745		ND			
2 Chloromethane	50.0		1.922		ND			
$ 3 Vinyl Chloride-d3	65.0	2.040	2.040	0.000	43498	5.9814	5.9814	
4 Vinyl Chloride	62.0		2.052		ND			
5 Bromomethane	94.0		2.395		ND			
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	32921	5.0900	5.0900	
7 Chloroethane	64.0		2.502		ND			
8 Trichlorofluoromethane	101.0		2.786		ND			
$ 12 1,1-Dichloroethene-d2	63.0	3.366	3.378	-0.012	109471	4.5661	4.5660	
13 1,1-Dichloroethene	96.0		3.389		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.413		ND			
14 Acetone	43.0	3.449	3.449	0.000	2993	3.0464	3.0463	e
15 Carbon Disulfide	76.0		3.685		ND			
16 Methyl Acetate	43.0		3.875		ND			
17 Methylene Chloride	84.0		4.005		ND			
20 Methyl tert-Butyl Ether	73.0		4.372		ND			
21 trans-1,2-Dichloroethene	96.0		4.383		ND			
23 1,1-Dichloroethane	63.0		4.928		ND			
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	114268	54.225	54.225	
26 cis-1,2-Dichloroethene	96.0		5.697		ND			
28 2-Butanone	43.0		5.709		ND			
29 Bromochloromethane	128.0		6.004		ND			
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	111387	5.2348	5.2347	Q
31 Chloroform	83.0		6.111		ND			
33 1,1,1-Trichloroethane	97.0		6.371		ND			
32 Cyclohexane	56.0		6.442		ND			
34 Carbon Tetrachloride	117.0		6.596		ND			

Report Date: 22-Dec-2015 08:29:01 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D18.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	48868	5.3992	5.3991	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	240446	5.3797	5.3797	
37 Benzene	78.0		6.856		ND			
39 1,2-Dichloroethane	62.0		6.880		ND			
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	254706	5.0000	5.0000	
42 Trichloroethene	95.0		7.720		ND			
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	64144	5.1591	5.1591	
43 Methylcyclohexane	83.0		7.981		ND			
45 1,2-Dichloropropane	63.0		8.016		ND			
49 Bromodichloromethane	83.0		8.383		ND			
50 cis-1,3-Dichloropropene	75.0		8.986		ND			
51 4-Methyl-2-pentanone	43.0		9.199		ND			
$ 52 Toluene-d8	98.0	9.353	9.341	0.012	220473	5.2848	5.2847	
53 Toluene	91.0	9.436	9.436	0.000	7721	0.15762	0.15760	e
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	46205	5.1018	5.1018	
55 trans-1,3-Dichloropropene	75.0		9.684		ND			
56 1,1,2-Trichloroethane	97.0		9.897		ND			
57 Tetrachloroethene	164.0		10.075		ND			
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	63441	49.243	49.243	
60 2-Hexanone	43.0		10.170		ND			
61 Dibromochloromethane	129.0		10.323		ND			
62 1,2-Dibromoethane	107.0		10.454		ND			
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	204520	5.0000	5.0000	
64 Chlorobenzene	112.0		10.939		ND			
65 Ethylbenzene	91.0		11.045		ND			
67 m+p-Xylenes	106.0		11.152		ND			
68 o-Xylene	106.0		11.507		ND			
69 Styrene	104.0		11.519		ND			
70 Bromoform	173.0		11.684		ND			
71 Isopropylbenzene	105.0		11.826		ND			
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.051	12.039	0.012	24949	5.1916	5.1916	
74 1,1,2,2-Tetrachloroethane	83.0		12.075		ND			
83 1,3-Dichlorobenzene	146.0		12.820		ND			
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	94531	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0		12.891		ND			
$ 87 1,2-Dichlorobenzene-d4	152.0	13.152	13.163	-0.011	59989	5.4135	5.4134	
89 1,2-Dichlorobenzene	146.0		13.175		ND			
90 1,2-Dibromo-3-chloropropane	75.0		13.719		ND			
91 1,2,4-Trichlorobenzene	180.0		14.299		ND			
94 1,2,3-Trichlorobenzene	180.0		14.666		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D18.D		
Lab Sample ID:	QL16010-005	Client Sample ID:	F6R35
Injection Date:	21-Dec-2015 19:49:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, QL16010-005		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	18
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	22-Dec-2015 08:16:30

Tentative Identified Compound Results

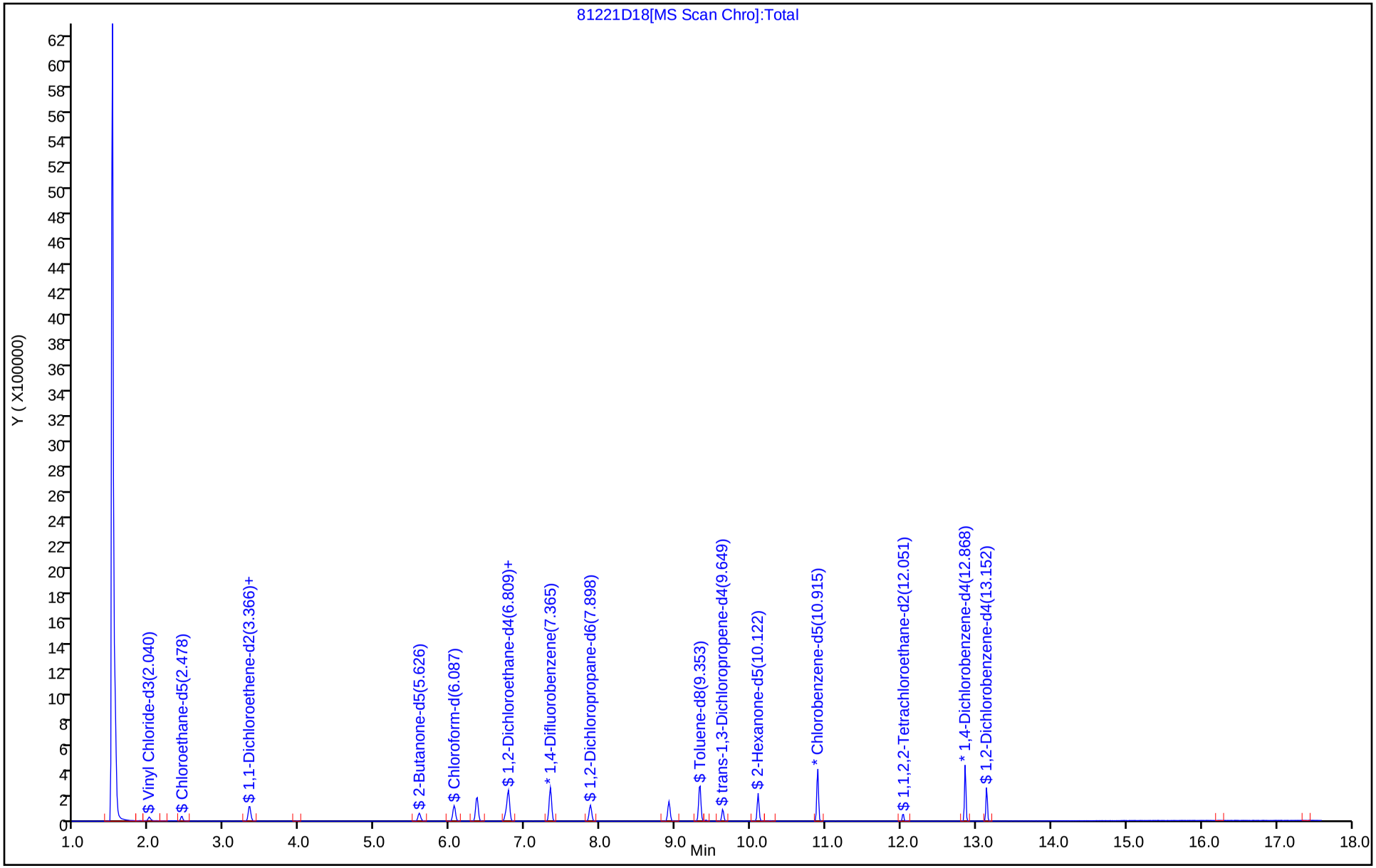
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 22-Dec-2015 08:29:01 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D18.D				
Injection Date:	21-Dec-2015 19:49:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	F6R35	Lab ID:	QL16010-005		
Sample Info:	8122115D.b, QL16010-005				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

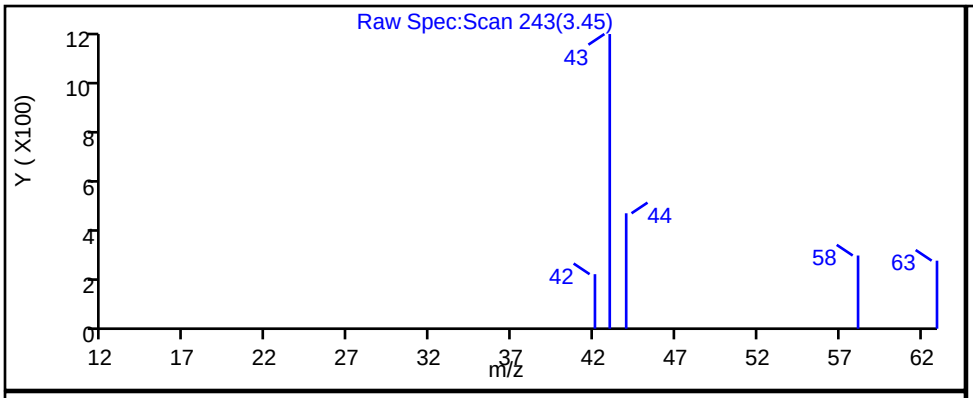


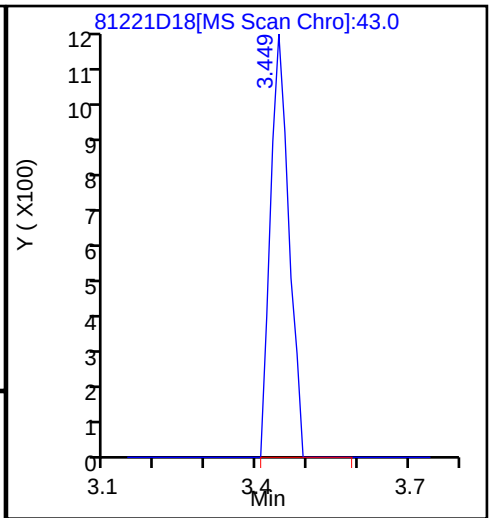
Report Date: 22-Dec-2015 08:29:01 AIM Revision: 1.0 26-May-2015 13:41:26

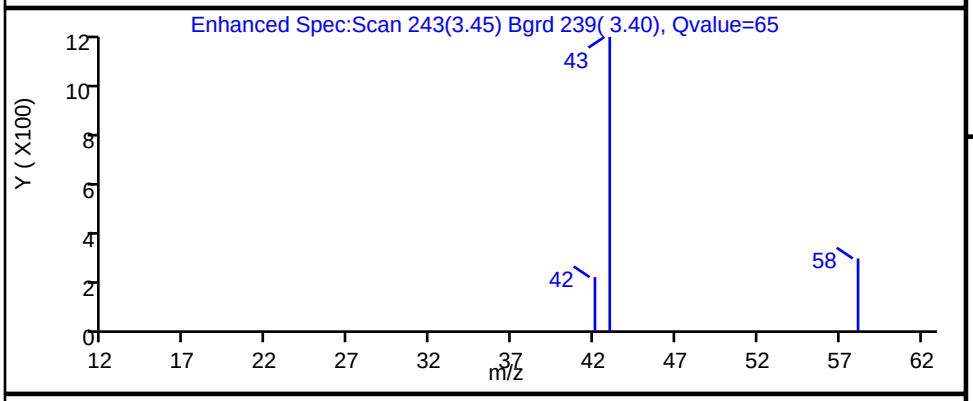
Shealy Environmental Services

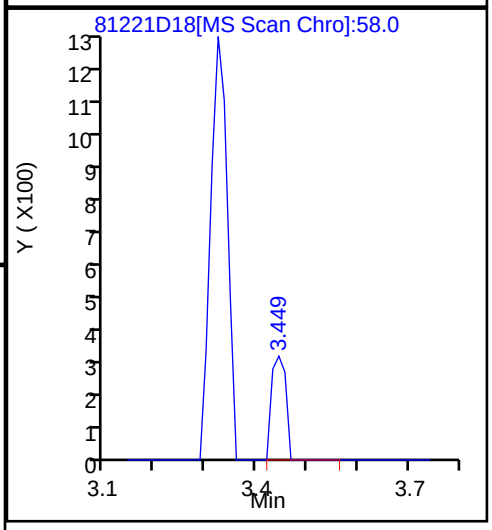
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D18.D		
Injection Date:	21-Dec-2015 19:49:30	Inst. ID:	msd8.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	8122115D.b, QL16010-005		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

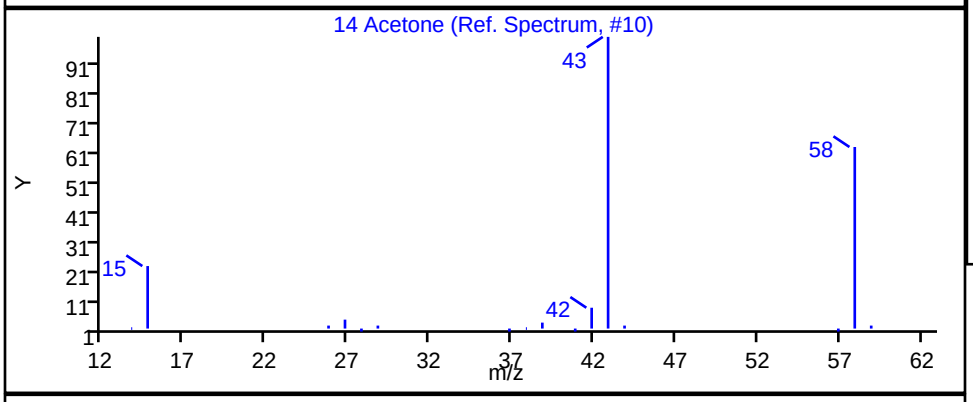
14 Acetone

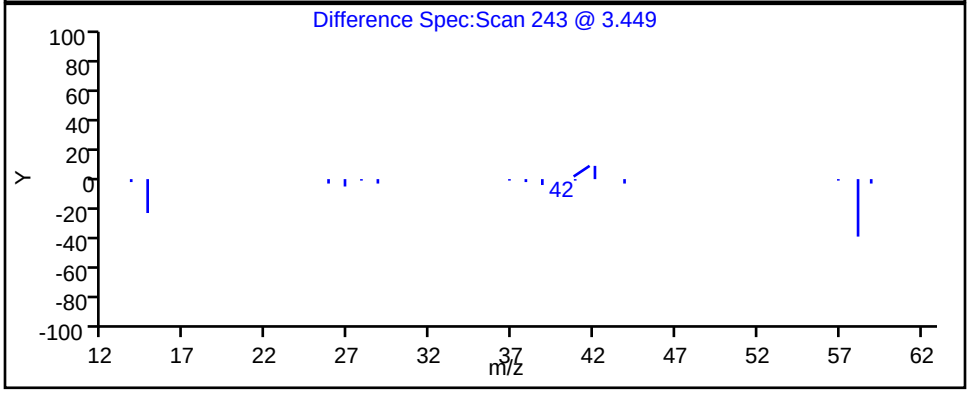










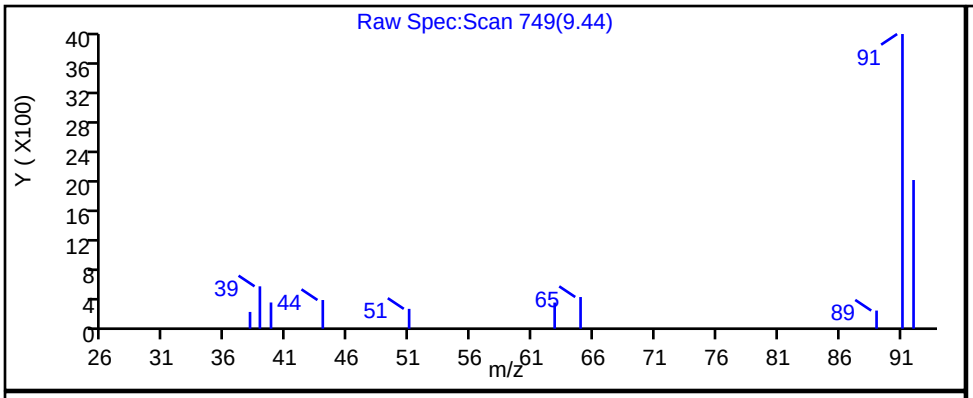


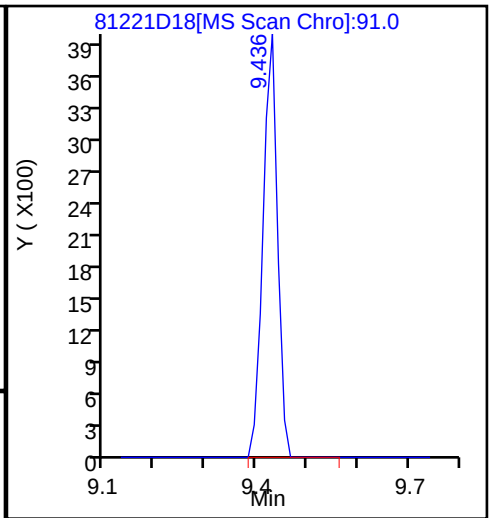
Report Date: 22-Dec-2015 08:29:01 AIM Revision: 1.0 26-May-2015 13:41:26

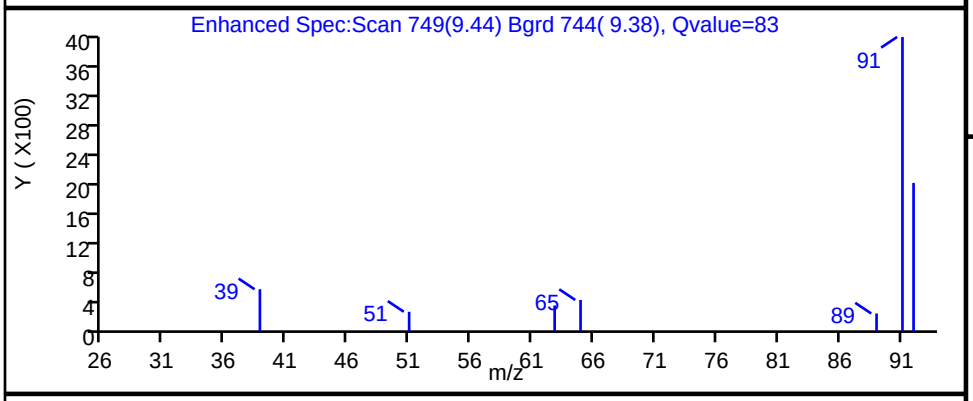
Shealy Environmental Services

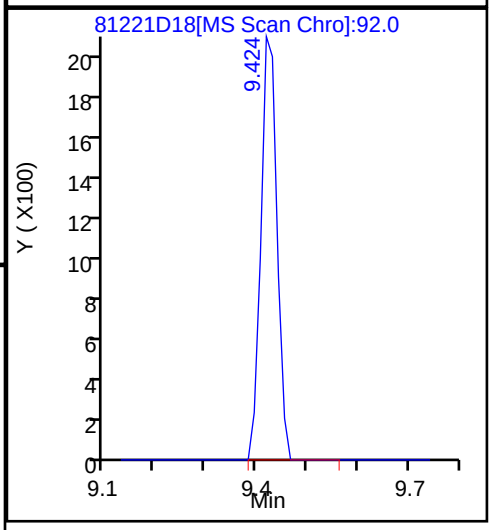
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D18.D		
Injection Date:	21-Dec-2015 19:49:30	Inst. ID:	msd8.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	8122115D.b, QL16010-005		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

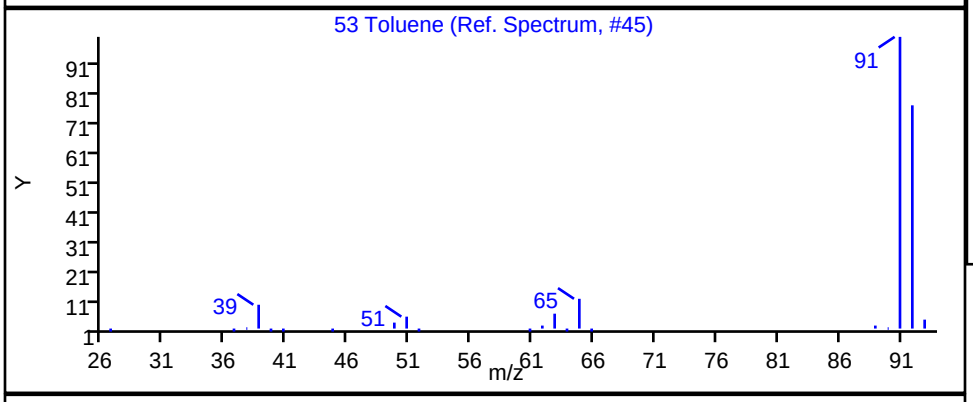
53 Toluene

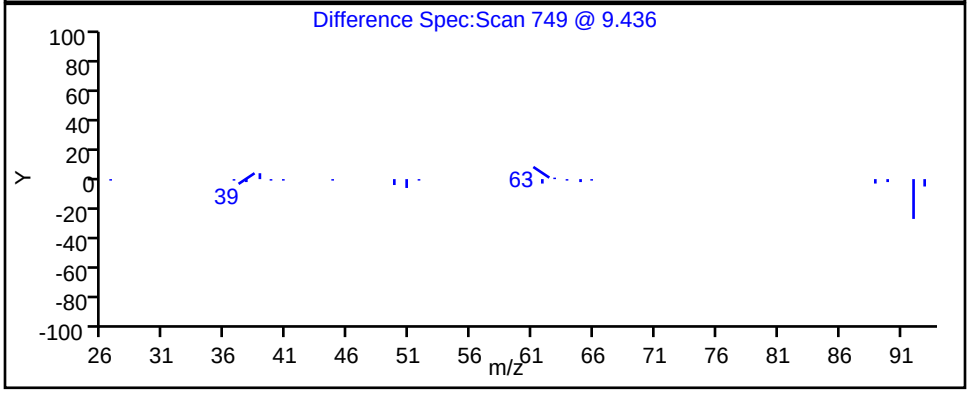












FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R36

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-006

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D19

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U
67-64-1	Acetone	4.2	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.21	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R36

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-006

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D19

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.17	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m, p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R36

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: Trace VOA
Level: TRACE
Matrix: Water
Lab Sample ID: QL16010-006
Sample wt/vol: 25.0 (g/mL) mL
Lab File ID: 81221D19
% Solids:
Date Received: 12/16/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/21/2015
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 25.0 (mL)
Injection Volume:
Cleanup Types:
pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D19.D		
Lab Sample ID:	QL16010-006	Client Sample ID:	F6R36
Injection Date:	21-Dec-2015 20:15:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, QL16010-006		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	19
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	22-Dec-2015 08:17:30

	Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
	1 Dichlorodifluoromethane	85.0		1.745		ND			
	2 Chloromethane	50.0		1.922		ND			
$	3 Vinyl Chloride-d3	65.0	2.041	2.040	0.001	46701	6.5332	6.5332	R
	4 Vinyl Chloride	62.0		2.052		ND			
	5 Bromomethane	94.0		2.395		ND			
$	6 Chloroethane-d5	69.0	2.478	2.478	0.000	36280	5.7066	5.7066	
	7 Chloroethane	64.0		2.502		ND			
	8 Trichlorofluoromethane	101.0		2.786		ND			
$	12 1,1-Dichloroethene-d2	63.0	3.366	3.378	-0.012	116159	4.9290	4.9290	
	13 1,1-Dichloroethene	96.0		3.389		ND			
	11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.413		ND			
	14 Acetone	43.0	3.437	3.449	-0.012	4066	4.2103	4.2102	eM
	15 Carbon Disulfide	76.0		3.685		ND			
	16 Methyl Acetate	43.0		3.875		ND			
	17 Methylene Chloride	84.0	4.005	4.005	0.000	2086	0.20536	0.20530	Qe
	20 Methyl tert-Butyl Ether	73.0		4.372		ND			
	21 trans-1,2-Dichloroethene	96.0		4.383		ND			
	23 1,1-Dichloroethane	63.0		4.928		ND			
$	25 2-Butanone-d5	46.0	5.626	5.626	0.000	121200	58.511	58.511	
	26 cis-1,2-Dichloroethene	96.0		5.697		ND			
	28 2-Butanone	43.0		5.709		ND			
	29 Bromochloromethane	128.0		6.004		ND			
$	30 Chloroform-d	84.0	6.087	6.087	0.000	118740	5.6771	5.6771	Q
	31 Chloroform	83.0		6.111		ND			
	33 1,1,1-Trichloroethane	97.0		6.371		ND			
	32 Cyclohexane	56.0		6.442		ND			
	34 Carbon Tetrachloride	117.0		6.596		ND			

Report Date: 22-Dec-2015 08:29:02 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D19.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	48384	5.4384	5.4383	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	258645	5.7798	5.7798	
37 Benzene	78.0		6.856		ND			
39 1,2-Dichloroethane	62.0		6.880		ND			
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	250365	5.0000	5.0000	
42 Trichloroethene	95.0		7.720		ND			
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	67526	5.4245	5.4244	
43 Methylcyclohexane	83.0		7.981		ND			
45 1,2-Dichloropropane	63.0		8.016		ND			
49 Bromodichloromethane	83.0		8.383		ND			
50 cis-1,3-Dichloropropene	75.0		8.986		ND			
51 4-Methyl-2-pentanone	43.0		9.199		ND			
$ 52 Toluene-d8	98.0	9.353	9.341	0.012	233278	5.5849	5.5849	
53 Toluene	91.0	9.436	9.436	0.000	8131	0.16579	0.16570	e
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	46783	5.1593	5.1593	
55 trans-1,3-Dichloropropene	75.0		9.684		ND			
56 1,1,2-Trichloroethane	97.0		9.897		ND			
57 Tetrachloroethene	164.0		10.075		ND			
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	67207	52.102	52.102	
60 2-Hexanone	43.0		10.170		ND			
61 Dibromochloromethane	129.0		10.323		ND			
62 1,2-Dibromoethane	107.0		10.454		ND			
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	204770	5.0000	5.0000	
64 Chlorobenzene	112.0		10.939		ND			
65 Ethylbenzene	91.0		11.045		ND			
67 m+p-Xylenes	106.0		11.152		ND			
68 o-Xylene	106.0		11.507		ND			
69 Styrene	104.0		11.519		ND			
70 Bromoform	173.0		11.684		ND			
71 Isopropylbenzene	105.0		11.826		ND			
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.051	12.039	0.012	25811	5.3644	5.3644	
74 1,1,2,2-Tetrachloroethane	83.0		12.075		ND			
83 1,3-Dichlorobenzene	146.0		12.820		ND			
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	90397	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0		12.891		ND			
$ 87 1,2-Dichlorobenzene-d4	152.0	13.152	13.163	-0.011	64771	6.1123	6.1122	QR
89 1,2-Dichlorobenzene	146.0		13.175		ND			
90 1,2-Dibromo-3-chloropropane	75.0		13.719		ND			
91 1,2,4-Trichlorobenzene	180.0		14.299		ND			
94 1,2,3-Trichlorobenzene	180.0		14.666		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D19.D		
Lab Sample ID:	QL16010-006	Client Sample ID:	F6R36
Injection Date:	21-Dec-2015 20:15:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, QL16010-006		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	19
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	22-Dec-2015 08:17:30

Tentative Identified Compound Results

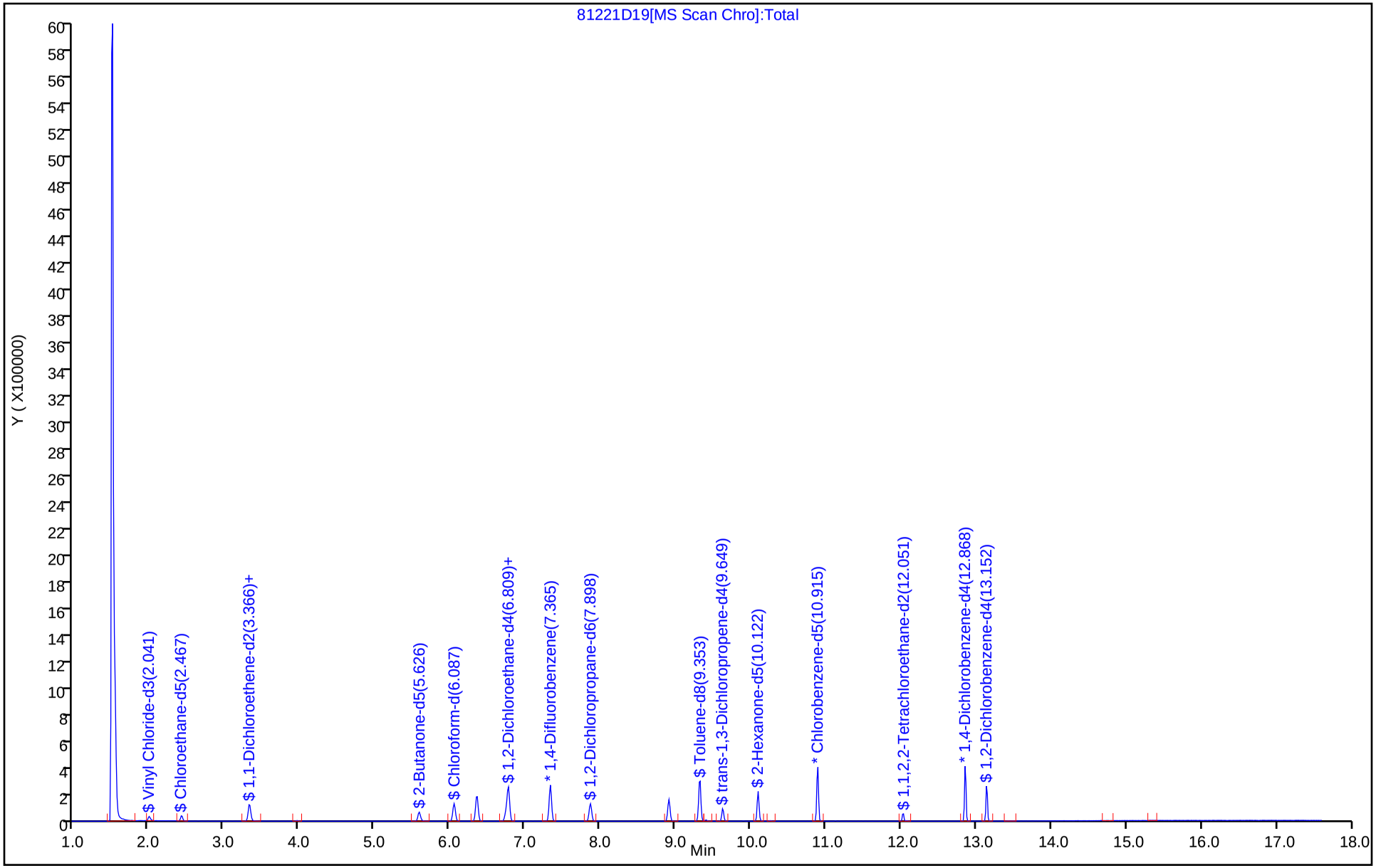
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 22-Dec-2015 08:29:02 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D19.D				
Injection Date:	21-Dec-2015 20:15:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	F6R36	Lab ID:	QL16010-006		
Sample Info:	8122115D.b, QL16010-006				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

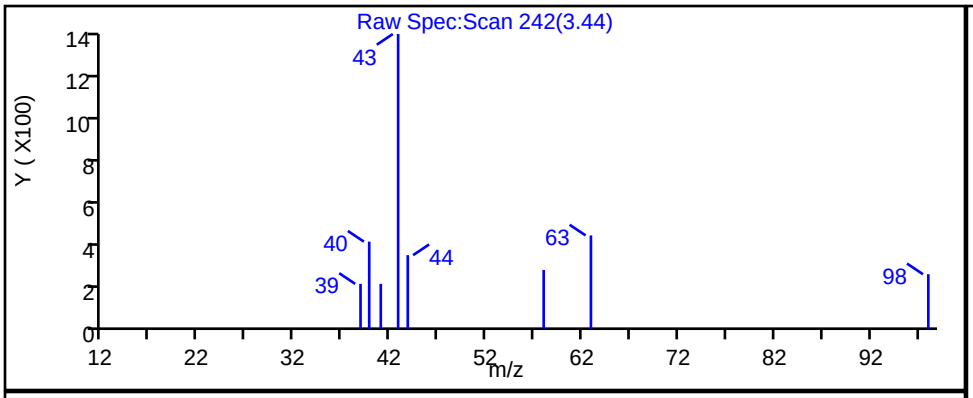


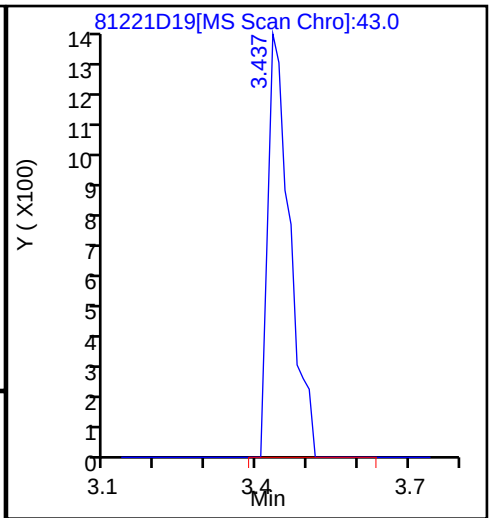
Report Date: 22-Dec-2015 08:29:02 AIM Revision: 1.0 26-May-2015 13:41:26

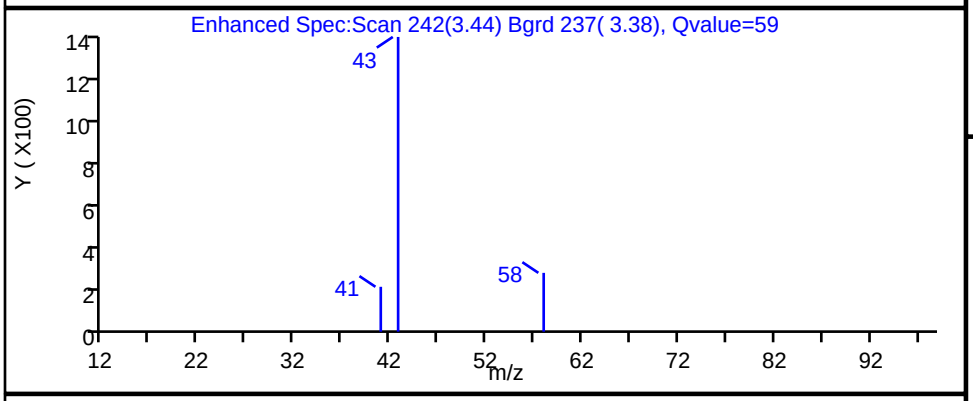
Shealy Environmental Services

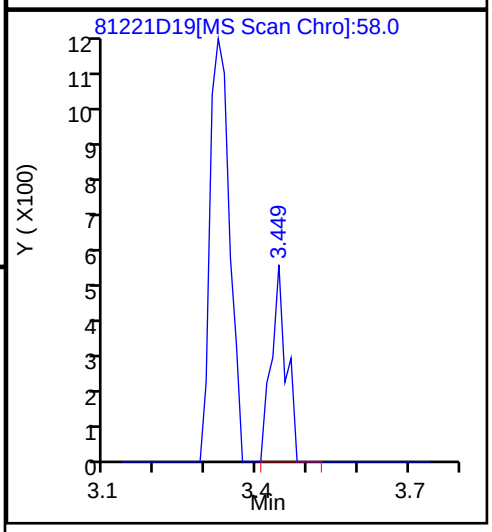
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D19.D		
Injection Date:	21-Dec-2015 20:15:30	Inst. ID:	msd8.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	8122115D.b, QL16010-006		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

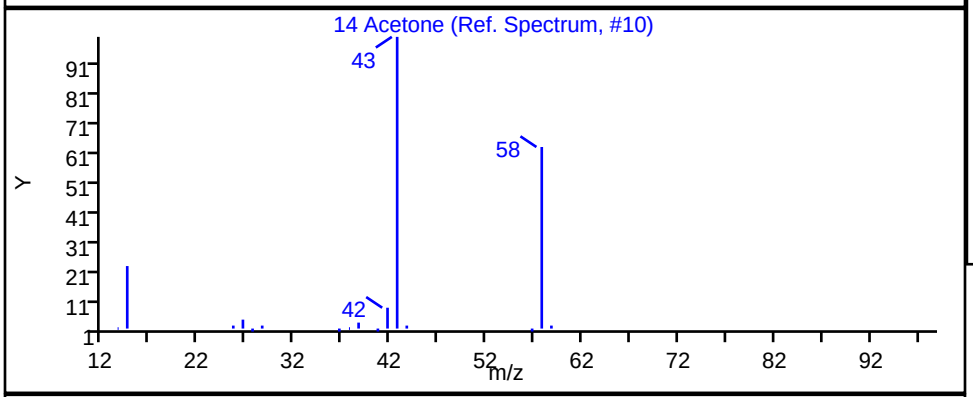
14 Acetone

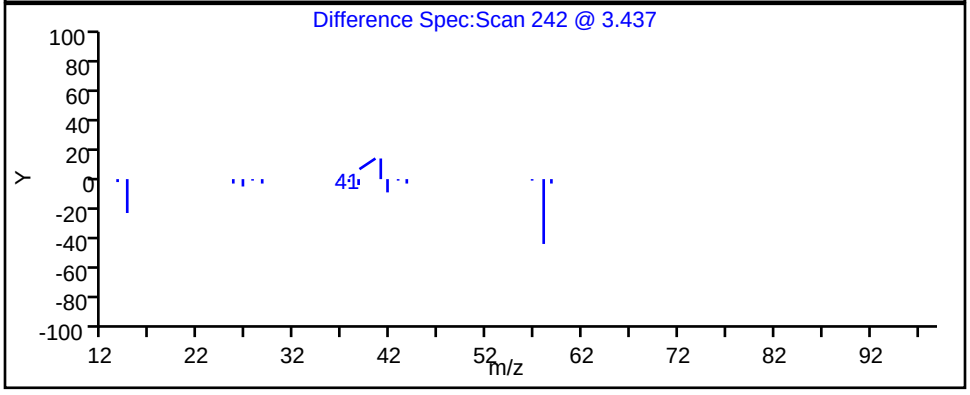










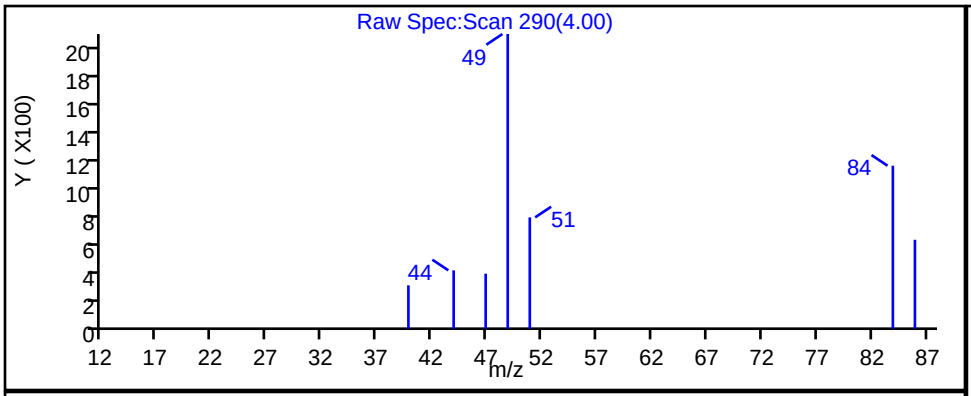


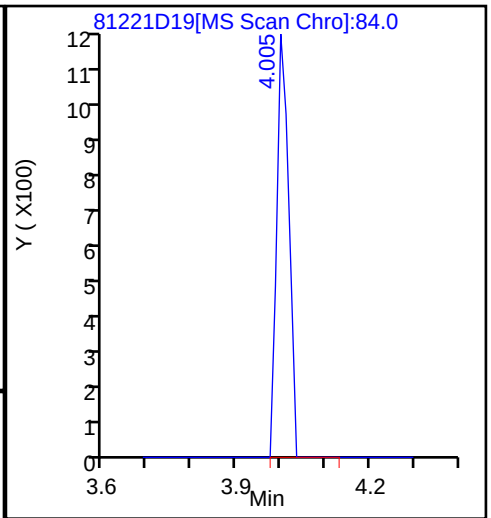
Report Date: 22-Dec-2015 08:29:02 AIM Revision: 1.0 26-May-2015 13:41:26

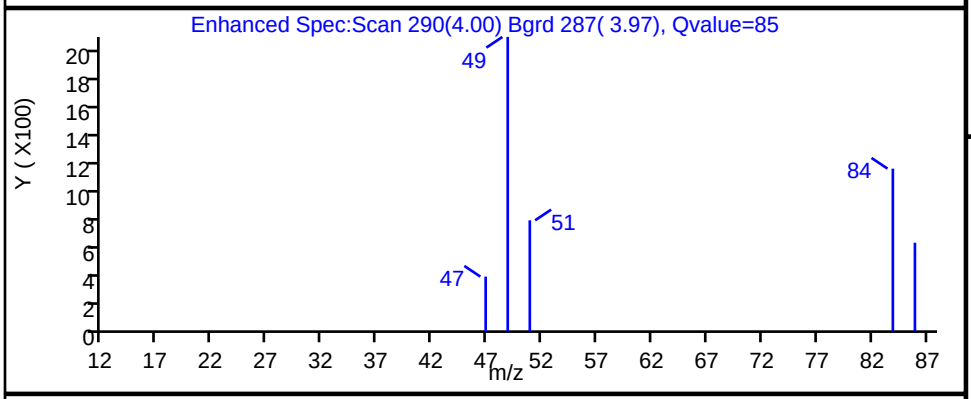
Shealy Environmental Services

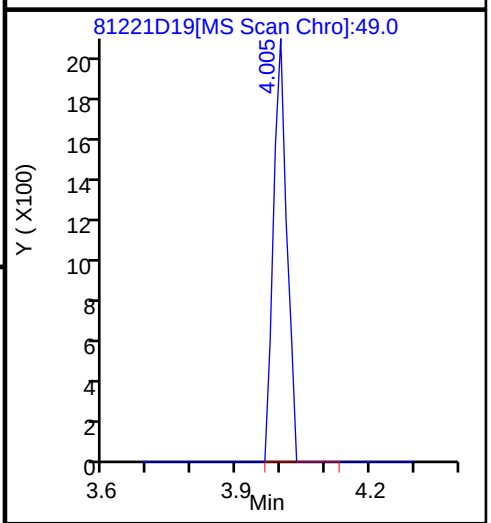
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D19.D		
Injection Date:	21-Dec-2015 20:15:30	Inst. ID:	msd8.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	8122115D.b, QL16010-006		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

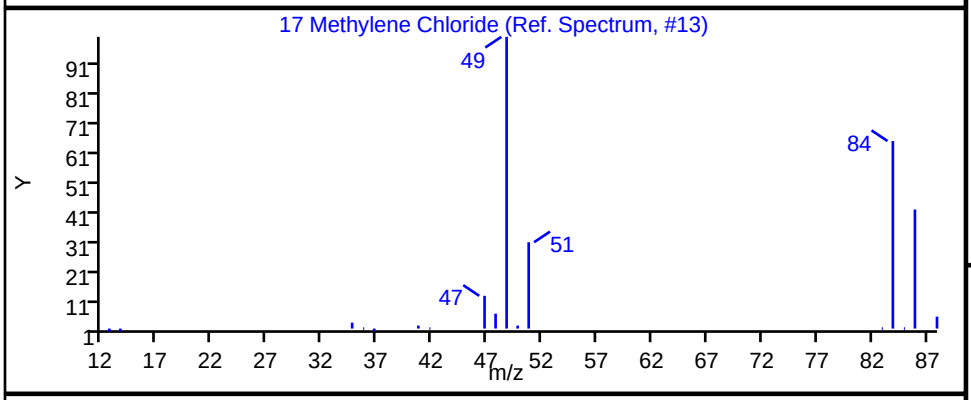
17 Methylene Chloride

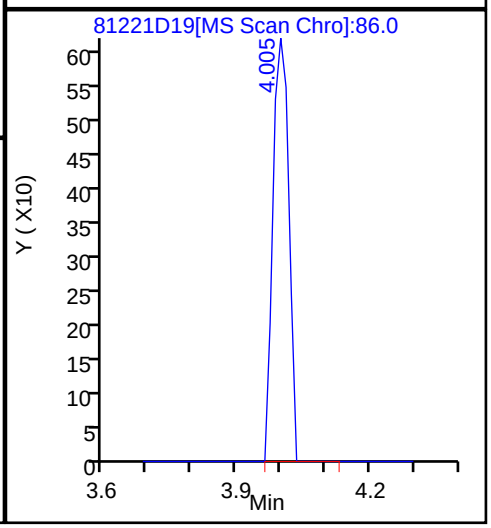


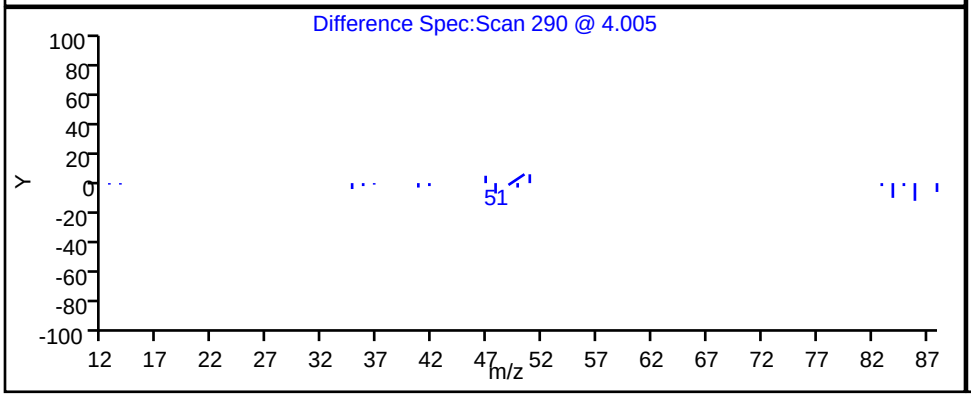










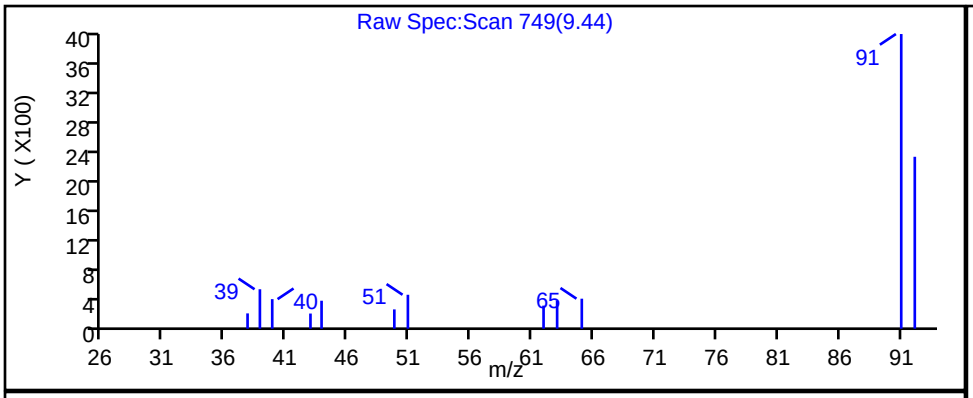


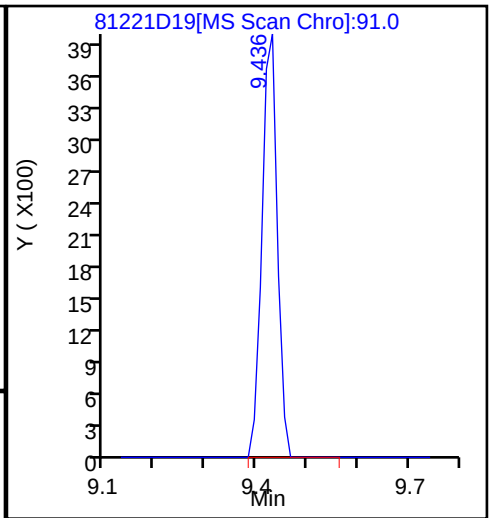
Report Date: 22-Dec-2015 08:29:02 AIM Revision: 1.0 26-May-2015 13:41:26

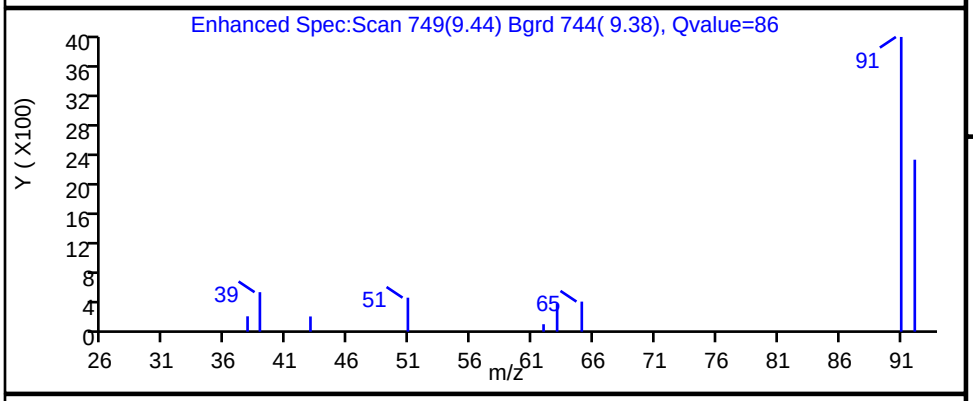
Shealy Environmental Services

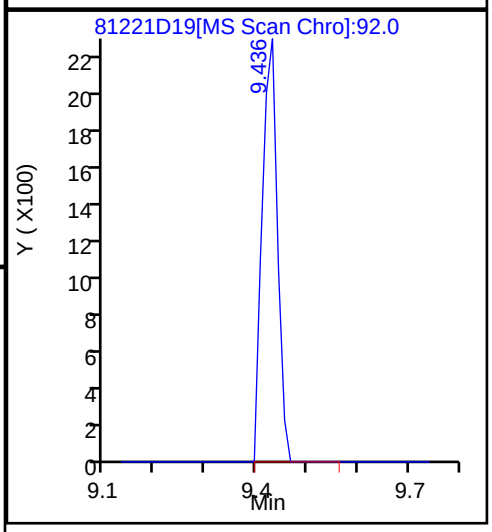
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D19.D		
Injection Date:	21-Dec-2015 20:15:30	Inst. ID:	msd8.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	8122115D.b, QL16010-006		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

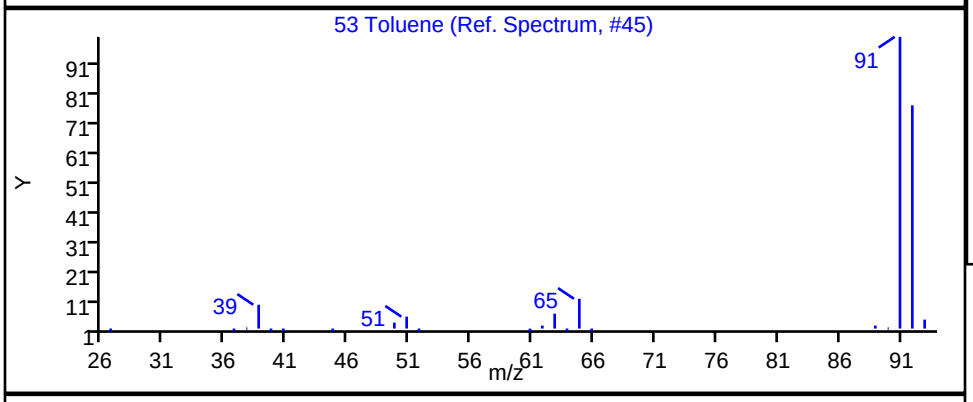
53 Toluene

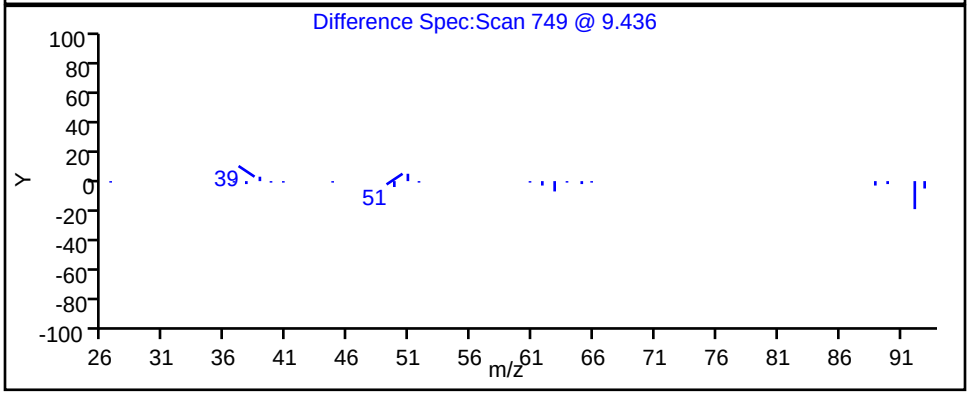












Report Date: 22-Dec-2015 08:29:02 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

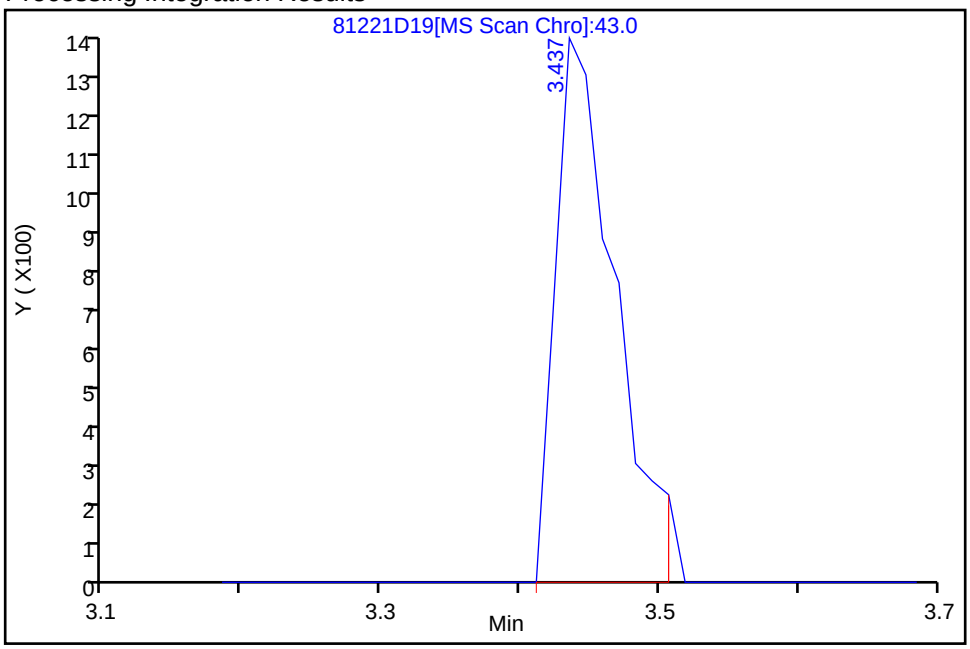
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D19.D		
Injection Date:	21-Dec-2015 20:15:30	Inst. ID:	msd8.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	8122115D.b, QL16010-006		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

14 Acetone, CAS: 67-64-1

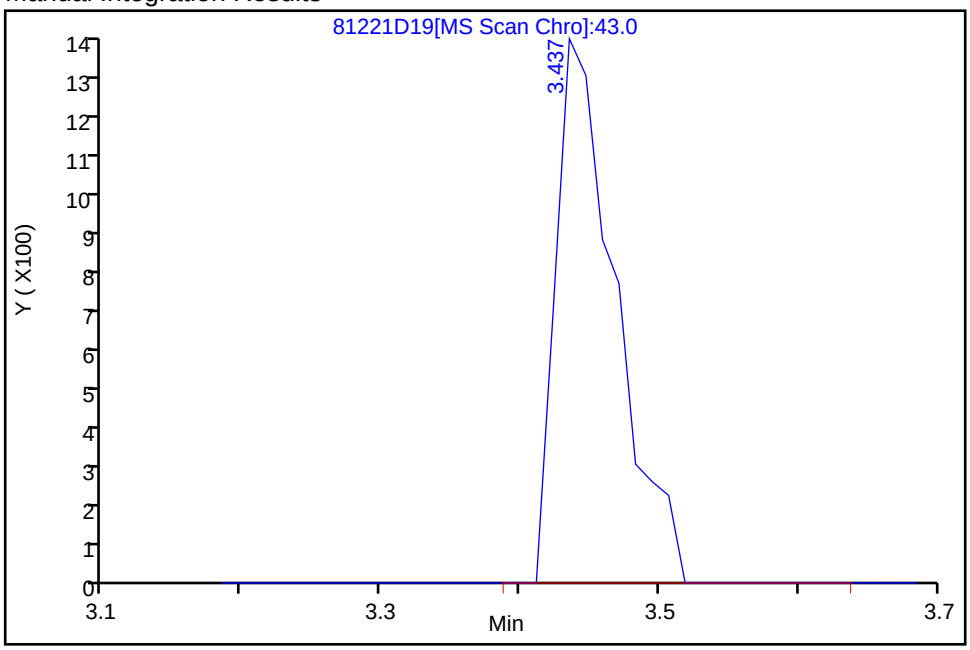
Processing Integration Results

RT: 3.437
Area: 3988
Conc: 4.1294
Conc Units: ug/L
Conc:



Manual Integration Results

RT: 3.437
Area: 4066
Conc: 4.2102
Conc Units: ug/L



Data Editor: all, 22-Dec-2015 08:17:30
Audit Action: Mint
Audit Reason: IAI

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R39

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-007

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D09

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U
67-64-1	Acetone	3.2	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R39

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-007

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D09

% Solids: _____ Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.14	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m, p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R39

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: Trace VOA
Level: TRACE
Matrix: Water
Lab Sample ID: QL16010-007
Sample wt/vol: 25.0 (g/mL) mL
Lab File ID: 81221D09
% Solids:
Date Received: 12/16/2015
GC Column: DB-624 ID: 0.25 (mm)
Date Extracted:
Extract Concentrated: (Y/N)
Date Analyzed: 12/21/2015
Soil Aliquot (VOA): (uL)
Extract Volume: (uL)
Heated Purge: (Y/N) N
Extraction Type: PT
Purge Volume: 25.0 (mL)
Injection Volume:
Cleanup Types:
pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	12.10	1.7	J
02		Unknown-02	13.45	0.90	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D09.D		
Lab Sample ID:	QL16010-007	Client Sample ID:	F6R39
Injection Date:	21-Dec-2015 15:50:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, QL16010-007		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	9
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	22-Dec-2015 08:13:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
1 Dichlorodifluoromethane	85.0		1.745		ND			
2 Chloromethane	50.0		1.922		ND			
$ 3 Vinyl Chloride-d3	65.0	2.040	2.040	0.000	38059	5.2787	5.2787	
4 Vinyl Chloride	62.0		2.052		ND			
5 Bromomethane	94.0		2.395		ND			
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	31917	4.9774	4.9774	
7 Chloroethane	64.0		2.502		ND			
8 Trichlorofluoromethane	101.0		2.786		ND			
$ 12 1,1-Dichloroethene-d2	63.0	3.366	3.378	-0.012	97650	4.1082	4.1082	
13 1,1-Dichloroethene	96.0		3.389		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.413		ND			
14 Acetone	43.0	3.449	3.449	-0.001	3137	3.2205	3.2205	e
15 Carbon Disulfide	76.0		3.685		ND			
16 Methyl Acetate	43.0		3.875		ND			
17 Methylene Chloride	84.0		4.005		ND			
20 Methyl tert-Butyl Ether	73.0		4.372		ND			
21 trans-1,2-Dichloroethene	96.0		4.383		ND			
23 1,1-Dichloroethane	63.0		4.928		ND			
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	86685	41.491	41.491	
26 cis-1,2-Dichloroethene	96.0		5.697		ND			
28 2-Butanone	43.0		5.709		ND			
29 Bromochloromethane	128.0		6.004		ND			
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	98802	4.6835	4.6834	Q
31 Chloroform	83.0		6.111		ND			
33 1,1,1-Trichloroethane	97.0		6.371		ND			
32 Cyclohexane	56.0		6.442		ND			
34 Carbon Tetrachloride	117.0		6.596		ND			

Report Date: 22-Dec-2015 08:29:00 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D09.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	41855	4.6643	4.6643	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	211154	5.0261	5.0261	
37 Benzene	78.0		6.856		ND			
39 1,2-Dichloroethane	62.0		6.880		ND			
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	252523	5.0000	5.0000	
42 Trichloroethene	95.0		7.720		ND			
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	53183	4.5508	4.5507	
43 Methylcyclohexane	83.0		7.981		ND			
45 1,2-Dichloropropane	63.0		8.016		ND			
49 Bromodichloromethane	83.0		8.383		ND			
50 cis-1,3-Dichloropropene	75.0		8.986		ND			
51 4-Methyl-2-pentanone	43.0		9.199		ND			
$ 52 Toluene-d8	98.0	9.341	9.341	0.000	187821	4.7897	4.7897	
53 Toluene	91.0	9.424	9.436	-0.012	6558	0.14243	0.14240	e
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	35838	4.2099	4.2099	
55 trans-1,3-Dichloropropene	75.0		9.684		ND			
56 1,1,2-Trichloroethane	97.0		9.897		ND			
57 Tetrachloroethene	164.0		10.075		ND			
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	44199	36.499	36.499	
60 2-Hexanone	43.0		10.170		ND			
61 Dibromochloromethane	129.0		10.323		ND			
62 1,2-Dibromoethane	107.0		10.454		ND			
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	192240	5.0000	5.0000	
64 Chlorobenzene	112.0		10.939		ND			
65 Ethylbenzene	91.0		11.045		ND			
67 m+p-Xylenes	106.0		11.152		ND			
68 o-Xylene	106.0		11.507		ND			
69 Styrene	104.0		11.519		ND			
70 Bromoform	173.0		11.684		ND			
71 Isopropylbenzene	105.0		11.826		ND			
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.051	12.039	0.012	18870	4.1775	4.1774	
74 1,1,2,2-Tetrachloroethane	83.0		12.075		ND			
83 1,3-Dichlorobenzene	146.0		12.820		ND			
* 85 1,4-Dichlorobenzene-d4	152.0	12.867	12.868	-0.001	90000	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0		12.891		ND			
$ 87 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	47488	4.5011	4.5011	
89 1,2-Dichlorobenzene	146.0		13.175		ND			
90 1,2-Dibromo-3-chloropropane	75.0		13.719		ND			
91 1,2,4-Trichlorobenzene	180.0		14.299		ND			
94 1,2,3-Trichlorobenzene	180.0		14.666		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D09.D		
Lab Sample ID:	QL16010-007	Client Sample ID:	F6R39
Injection Date:	21-Dec-2015 15:50:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, QL16010-007		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	9
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	22-Dec-2015 08:13:30

Tentative Identified Compound Results

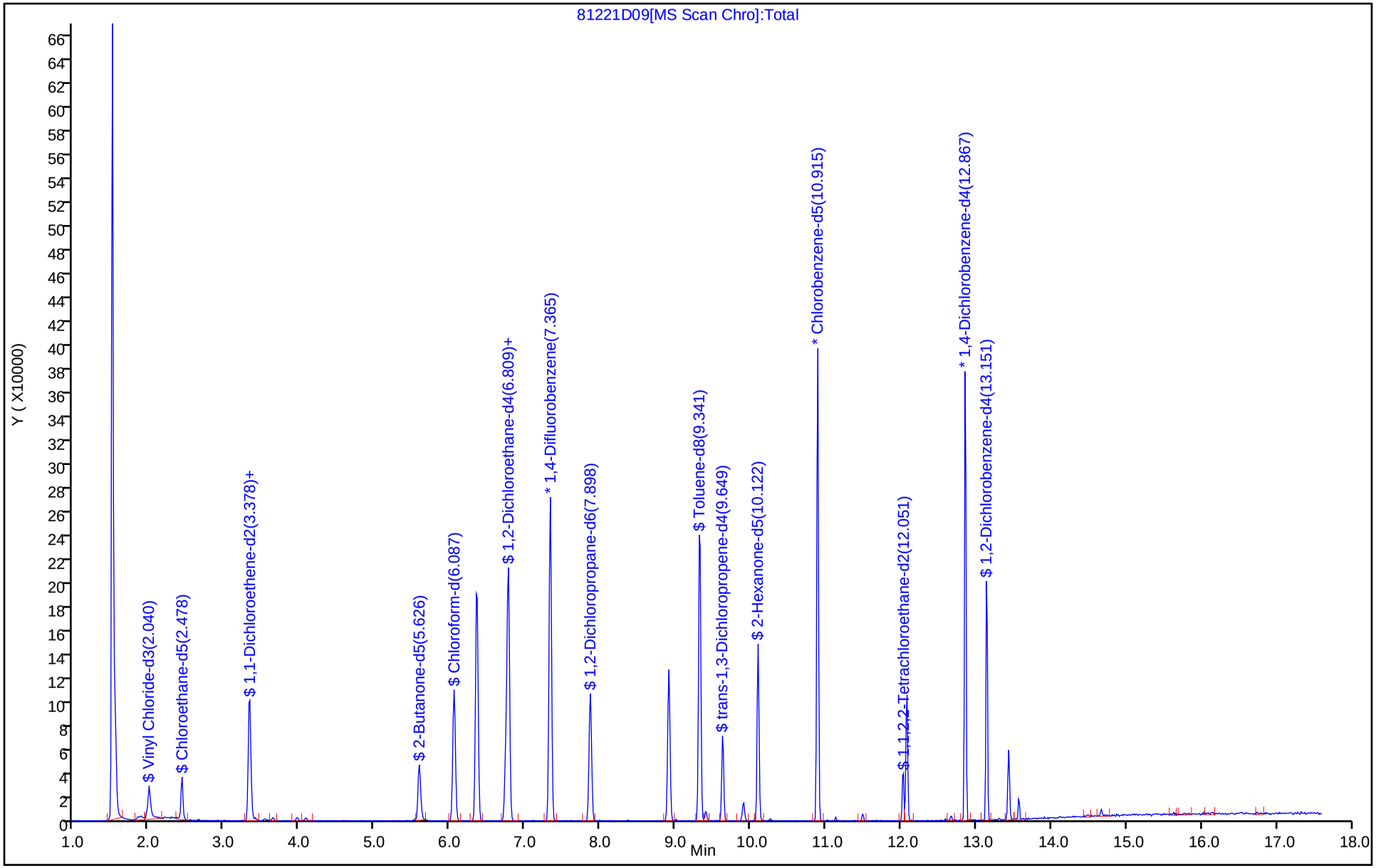
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
12.098	184875	1.6626	1.6626	85				
	Unknown							
13.447	100297	0.90199	0.90199	85				

Quant. Compounds	RT	Response	Amount ug/L
* 85 1,4-Dichlorobenzene-d4	12.867	555974	5.0000

Report Date: 22-Dec-2015 08:29:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D09.D				
Injection Date:	21-Dec-2015 15:50:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	F6R39	Lab ID:	QL16010-007		
Sample Info:	8122115D.b, QL16010-007				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

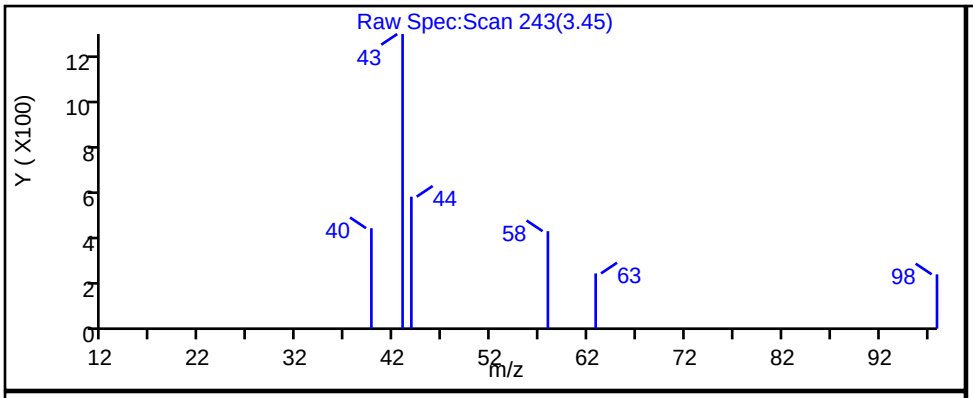


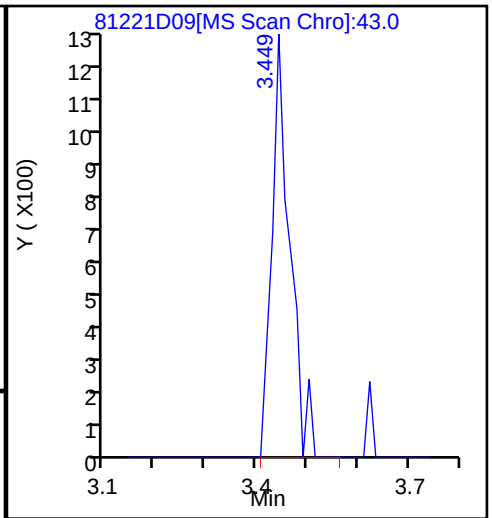
Report Date: 22-Dec-2015 08:29:00 AIM Revision: 1.0 26-May-2015 13:41:26

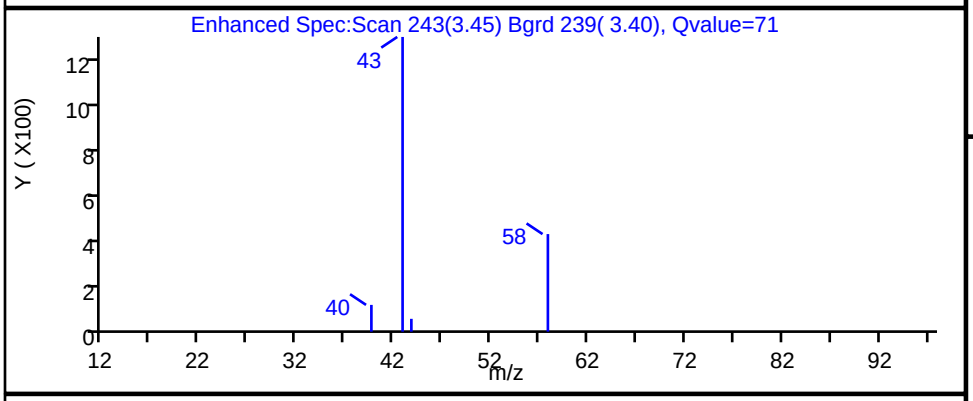
Shealy Environmental Services

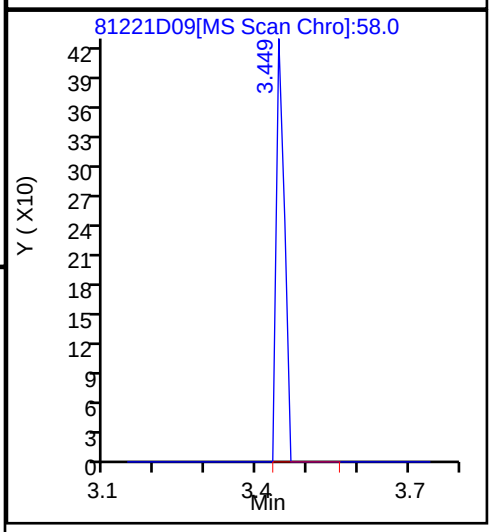
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D09.D		
Injection Date:	21-Dec-2015 15:50:30	Inst. ID:	msd8.i
Client ID:	F6R39	Lab ID:	QL16010-007
Sample Info:	8122115D.b, QL16010-007		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

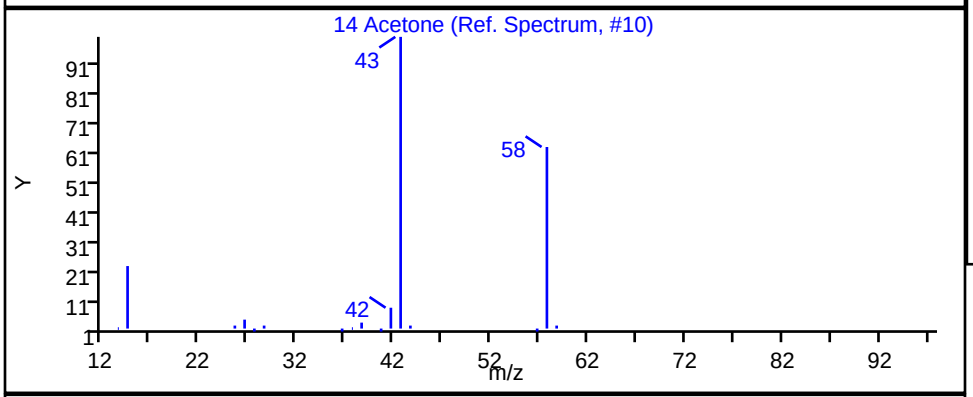
14 Acetone

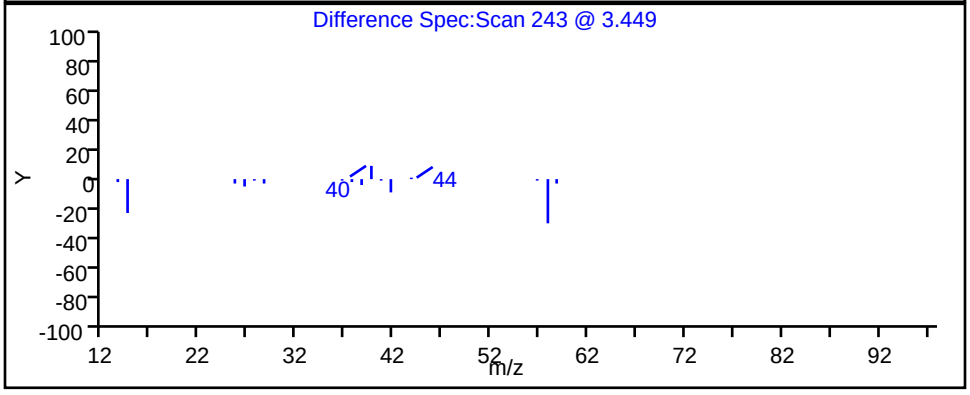










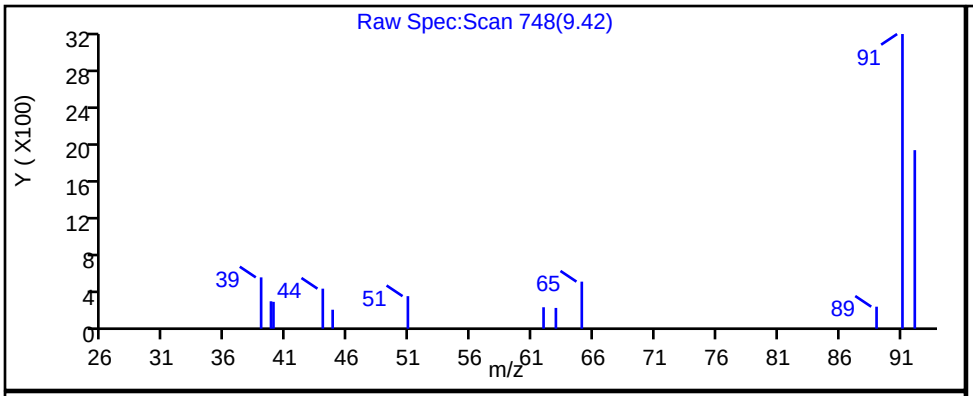


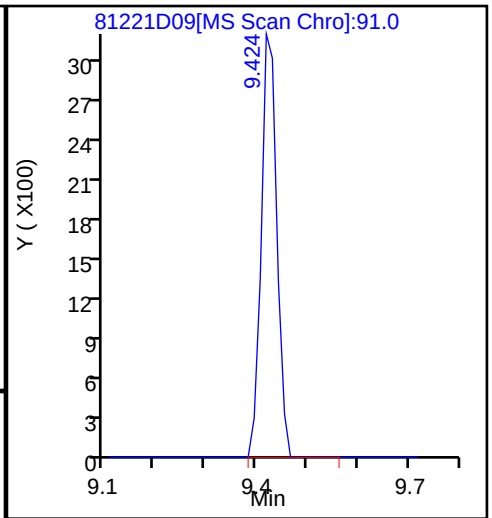
Report Date: 22-Dec-2015 08:29:00 AIM Revision: 1.0 26-May-2015 13:41:26

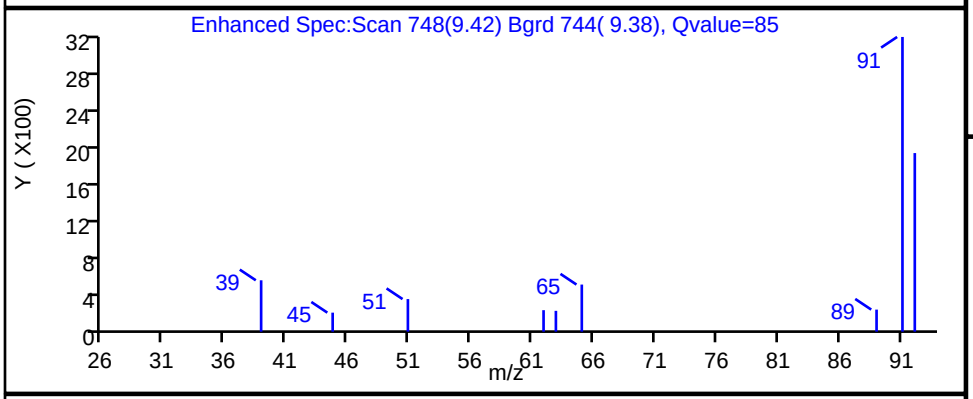
Shealy Environmental Services

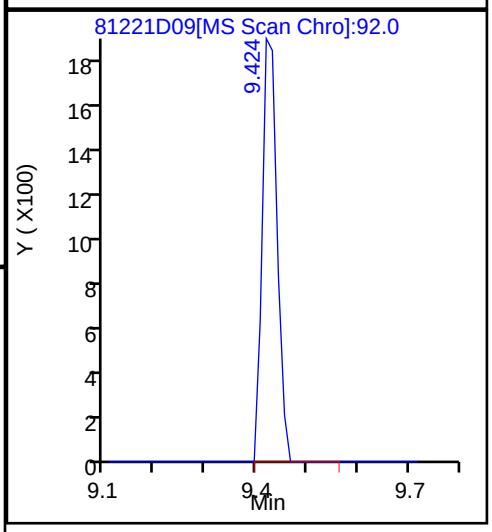
Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D09.D		
Injection Date:	21-Dec-2015 15:50:30	Inst. ID:	msd8.i
Client ID:	F6R39	Lab ID:	QL16010-007
Sample Info:	8122115D.b, QL16010-007		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

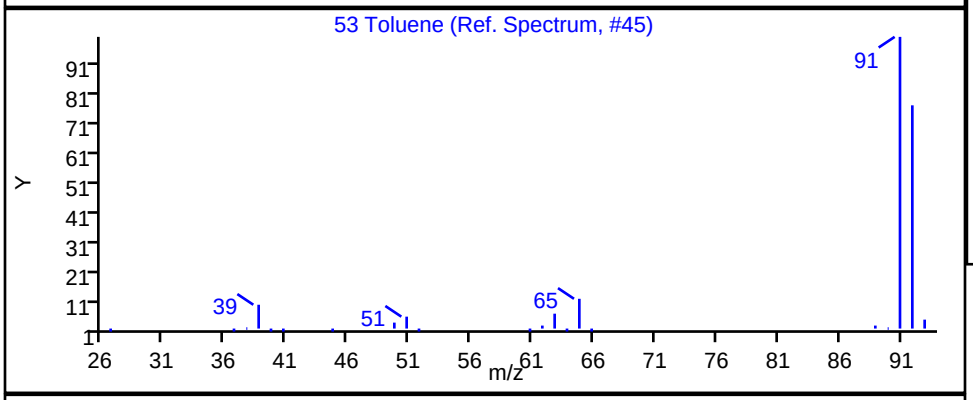
53 Toluene

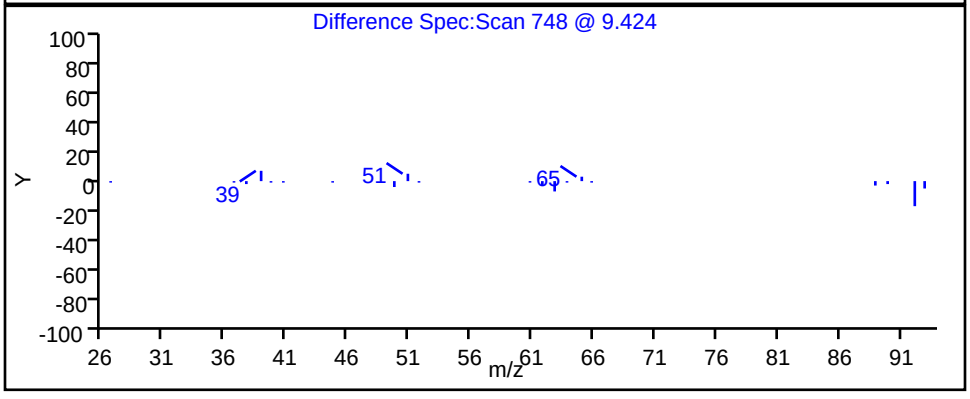












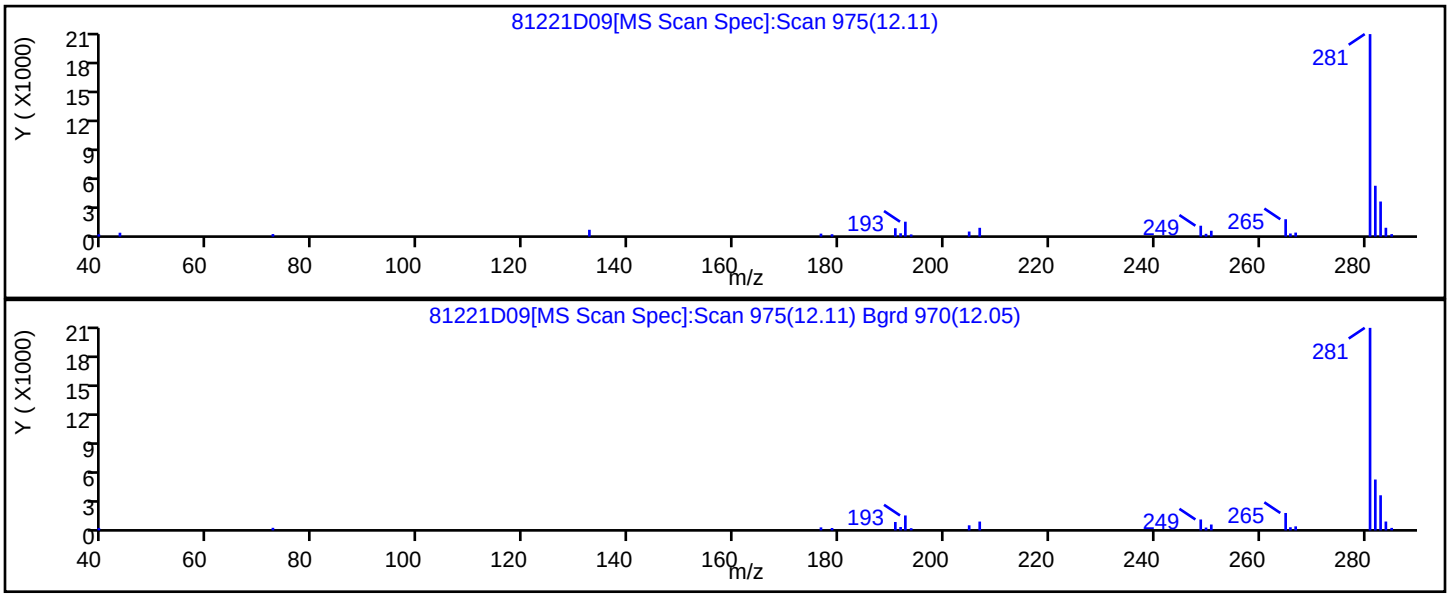
Report Date: 22-Dec-2015 08:29:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D09.D		
Injection Date:	21-Dec-2015 15:50:30	Inst. ID:	msd8.i
Client ID:	F6R39	Lab ID:	QL16010-007
Sample Info:	8122115D.b, QL16010-007		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 12.098

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



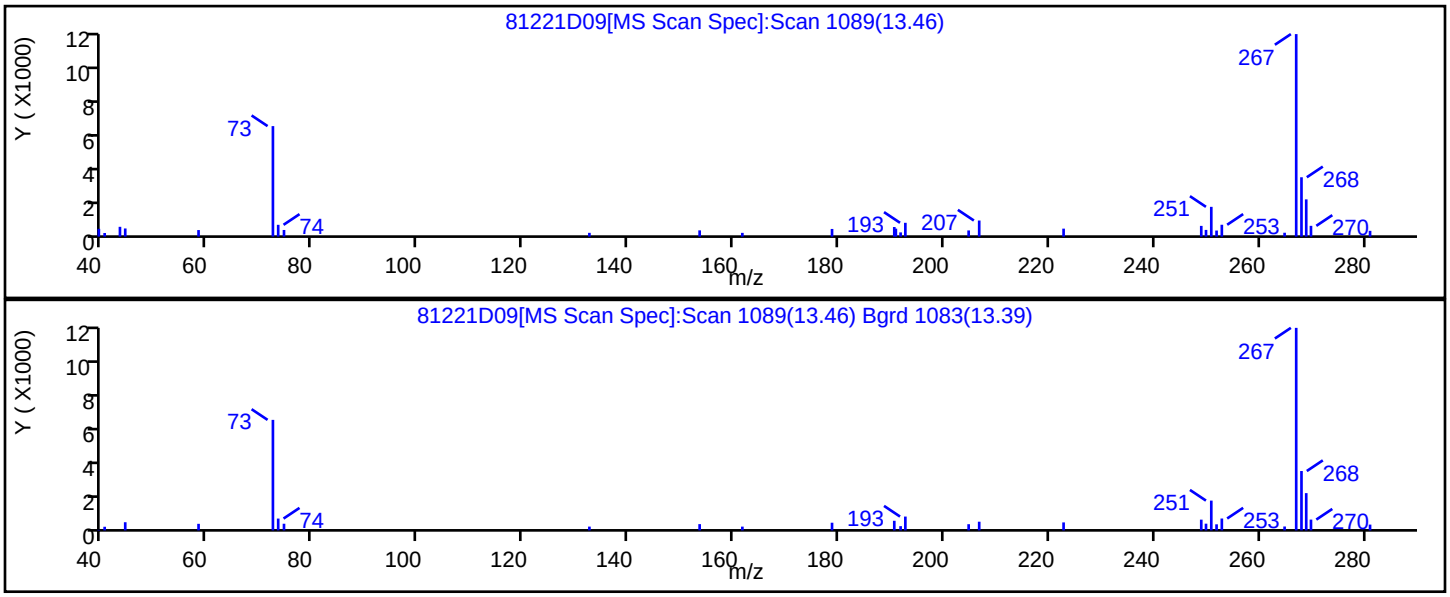
Report Date: 22-Dec-2015 08:29:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D09.D		
Injection Date:	21-Dec-2015 15:50:30	Inst. ID:	msd8.i
Client ID:	F6R39	Lab ID:	QL16010-007
Sample Info:	8122115D.b, QL16010-007		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 13.447

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



TRACE-VOLATILE STANDARDS DATA

-Initial Calibration Data
Form 6A-OR

-Continuing Calibration Verification Data
Form 7A-OR

Initial Calibration

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: SDG No.: F6R29

Analytical Method: Trace VOA Level: Trace

Instrument ID: Agilent MSD8 Calibration Date(s): 12/21/2015 12/21/2015

GC Column: DB-624 ID: 0.25 (mm) Calibration Time(s): 1245 1432

Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 25.0 (mL)

LAB FILE ID: 81221D07 RRF 0.5 = 81221D07 RRF 1.0 = 81221D06

RRF 5.0 = 81221D05 RRF 10 = 81221D04 RRF 20 = 81221D03

COMPOUND	RRF 0.5	RRF 1.0	RRF 5.0	RRF 10	RRF 20	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.125	0.221	0.277	0.216	0.269	0.222	27.3
Chloromethane	0.346	0.427	0.436	0.369	0.443	0.404	10.8
Vinyl chloride	0.174	0.243	0.271	0.230	0.265	0.237	16.5
Bromomethane	0.105	0.115	0.117	0.119	0.114	0.114	4.7
Chloroethane	0.100	0.140	0.157	0.146	0.154	0.140	16.7
Trichlorofluoromethane	0.144	0.271	0.334	0.294	0.347	0.278	29.1
1,1-Dichloroethene	0.183	0.187	0.231	0.181	0.222	0.201	11.9
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.066	0.091	0.130	0.091	0.126	0.101	26.7
Acetone	0.017	0.020	0.021	0.019	0.020	0.019	8.2
Carbon disulfide	0.526	0.623	0.748	0.596	0.700	0.639	13.7
Methyl acetate	0.072	0.079	0.098	0.094	0.086	0.086	12.5
Methylene chloride	0.182	0.214	0.222	0.195	0.201	0.203	7.9
trans-1,2-Dichloroethene	0.203	0.218	0.270	0.226	0.244	0.232	11.1
Methyl tert-butyl ether	0.269	0.298	0.331	0.318	0.303	0.304	7.8
1,1-Dichloroethane	0.379	0.488	0.553	0.479	0.501	0.480	13.2
cis-1,2-Dichloroethene	0.209	0.249	0.271	0.244	0.250	0.245	9.2
2-Butanone	0.031	0.035	0.037	0.035	0.036	0.035	6.9
Bromochloromethane	0.062	0.080	0.092	0.086	0.085	0.081	14.4
Chloroform	0.541	0.509	0.480	0.452	0.434	0.483	8.9
1,1,1-Trichloroethane	0.364	0.420	0.524	0.433	0.464	0.441	13.4
Cyclohexane	0.686	0.529	0.768	0.574	0.691	0.650	14.9
Carbon tetrachloride	0.326	0.340	0.460	0.380	0.441	0.390	15.3
Benzene	0.912	1.124	1.283	1.153	1.181	1.131	12.1
1,2-Dichloroethane	0.196	0.231	0.280	0.267	0.250	0.245	13.4
Trichloroethene	0.240	0.321	0.377	0.331	0.346	0.323	15.9
Methylcyclohexane	0.344	0.413	0.569	0.439	0.543	0.462	20.2
1,2-Dichloropropane	0.261	0.321	0.359	0.352	0.326	0.324	11.9
Bromodichloromethane	0.241	0.316	0.351	0.368	0.332	0.322	15.2
cis-1,3-Dichloropropene	0.285	0.307	0.406	0.422	0.366	0.357	16.8
4-Methyl-2-pentanone	0.097	0.101	0.123	0.116	0.118	0.111	10.2
Toluene	0.947	1.147	1.337	1.308	1.249	1.198	13.2
trans-1,3-Dichloropropene	0.188	0.214	0.276	0.301	0.262	0.248	18.7
1,1,2-Trichloroethane	0.122	0.119	0.142	0.152	0.132	0.133	10.4
Tetrachloroethene	0.215	0.232	0.301	0.265	0.273	0.257	13.2
2-Hexanone	0.061	0.070	0.082	0.077	0.077	0.073	11.2

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: SDG No.: F6R29

Analytical Method: Trace VOA Level: Trace

Instrument ID: Agilent MSD8 Calibration Date(s): 12/21/2015 12/21/2015

GC Column: DB-624 ID: 0.25 (mm) Calibration Time(s): 1245 1432

Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 25.0 (mL)

LAB FILE ID: 81221D07 RRF 0.5 = 81221D07 RRF 1.0 = 81221D06

RRF 5.0 = 81221D05 RRF 10 = 81221D04 RRF 20 = 81221D03

COMPOUND	RRF 0.5	RRF 1.0	RRF 5.0	RRF 10	RRF 20	$\overline{RRF}$	%RSD
Dibromochloromethane	0.127	0.150	0.184	0.214	0.180	0.171	19.5
1,2-Dibromoethane	0.105	0.111	0.140	0.150	0.128	0.127	15.0
Chlorobenzene	0.596	0.705	0.827	0.870	0.759	0.751	14.3
Ethylbenzene	1.006	1.239	1.495	1.497	1.383	1.324	15.6
o-Xylene	0.384	0.483	0.556	0.583	0.520	0.505	15.4
m, p-Xylene	0.397	0.500	0.606	0.622	0.565	0.538	17.1
Styrene	0.539	0.610	0.784	0.847	0.741	0.704	18.0
Bromoform	0.121	0.162	0.201	0.221	0.204	0.181	22.2
Isopropylbenzene	0.976	1.181	1.463	1.444	1.345	1.282	15.9
1,1,2,2-Tetrachloroethane	0.097	0.115	0.137	0.143	0.119	0.122	15.0
1,3-Dichlorobenzene	1.040	1.238	1.414	1.416	1.265	1.274	12.2
1,4-Dichlorobenzene	1.010	1.188	1.313	1.362	1.205	1.216	11.2
1,2-Dichlorobenzene	0.810	0.995	1.096	1.140	1.004	1.009	12.6
1,2-Dibromo-3-chloropropane	0.020	0.040	0.042	0.041	0.037	0.036	24.9
1,2,4-Trichlorobenzene	0.618	0.682	0.803	0.812	0.751	0.733	11.3
1,2,3-Trichlorobenzene	0.445	0.577	0.603	0.614	0.556	0.559	12.1
Vinyl Chloride-d3	0.109	0.142	0.164	0.131	0.168	0.143	17.1
Chloroethane-d5	0.106	0.124	0.144	0.125	0.137	0.127	11.5
1,1-Dichloroethene-d2	0.395	0.447	0.535	0.438	0.539	0.471	13.6
2-Butanone-d5	0.037	0.041	0.046	0.041	0.042	0.041	7.4
Chloroform-d	0.379	0.416	0.449	0.400	0.444	0.418	7.1
1,2-Dichloroethane-d4	0.155	0.176	0.203	0.171	0.183	0.178	9.8
Benzene-d6	0.933	1.081	1.212	1.041	1.196	1.093	10.6
1,2-Dichloropropane-d6	0.275	0.317	0.325	0.286	0.316	0.304	7.2
Toluene-d8	0.883	0.989	1.138	0.974	1.114	1.020	10.4
trans-1,3-Dichloropropene-d4	0.190	0.209	0.242	0.226	0.240	0.221	10.0
2-Hexanone-d5	0.026	0.029	0.036	0.033	0.033	0.031	12.5
1,1,2,2-Tetrachloroethane-d2	0.106	0.121	0.127	0.115	0.118	0.117	6.6
1,2-Dichlorobenzene-d4	0.507	0.577	0.657	0.560	0.629	0.586	10.0

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D03.D		
Lab Sample ID:	VSTD020RN	Client Sample ID:	VSTD020RN
Injection Date:	21-Dec-2015 12:45:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, VSTD020RN		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Ical, Level: 5	ALS Bottle:	3
Cpnd Sublist:	2487.1.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	21-Dec-2015 15:00:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	1.745	1.745	0.000	285633	20.000	23.524	
2 Chloromethane	50.0	1.922	1.922	0.000	469568	20.000	20.937	
$ 3 Vinyl Chloride-d3	65.0	2.040	2.040	0.000	178630	20.000	23.148	
4 Vinyl Chloride	62.0	2.040	2.040	0.000	281511	20.000	22.083	
5 Bromomethane	94.0	2.395	2.395	0.000	120925	20.000	19.114	
$ 6 Chloroethane-d5	69.0	2.466	2.466	0.000	145407	20.000	21.737	
7 Chloroethane	64.0	2.502	2.502	0.000	163723	20.000	21.559	
155 Vinyl bromide	106.0	2.715	2.715	0.000	168275	20.000	21.441	
8 Trichlorofluoromethane	101.0	2.774	2.774	0.000	368081	20.000	24.228	
10 2-Chloropropane	43.0	3.212	3.212	0.000	482740	20.000	20.750	
$ 12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	571915	20.000	22.512	
13 1,1-Dichloroethene	96.0	3.389	3.389	0.000	235123	20.000	22.573	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.413	3.413	0.000	133643	20.000	25.765	
14 Acetone	43.0	3.437	3.437	0.000	215296	200.00	203.02	
15 Carbon Disulfide	76.0	3.685	3.685	0.000	742899	20.000	21.599	
16 Methyl Acetate	43.0	3.863	3.863	0.000	91646	20.000	19.454	
17 Methylene Chloride	84.0	4.005	4.005	0.000	213670	20.000	19.040	
18 1-Chloropropane	42.0	4.052	4.052	0.000	415916	20.000	21.119	
20 Methyl tert-Butyl Ether	73.0	4.371	4.371	0.000	321977	20.000	19.390	
21 trans-1,2-Dichloroethene	96.0	4.371	4.371	0.000	258587	20.000	20.651	
23 1,1-Dichloroethane	63.0	4.928	4.928	0.000	531602	20.000	20.095	
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	441194	200.00	195.13	
26 cis-1,2-Dichloroethene	96.0	5.697	5.697	0.000	264770	20.000	19.667	
28 2-Butanone	43.0	5.697	5.697	0.000	384508	200.00	200.76	
29 Bromochloromethane	128.0	6.004	6.004	0.000	90422	20.000	20.125	
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	471289	20.000	20.812	
31 Chloroform	83.0	6.111	6.111	0.000	461024	20.000	17.082	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 1,1,1-Trichloroethane	97.0	6.371	6.371	0.000	384955	20.000	20.550	
35 1,1-Dichloropropene	75.0	6.584	6.584	0.000	361661	20.000	21.802	
32 Cyclohexane	56.0	6.454	6.454	0.000	573862	20.000	21.707	
34 Carbon Tetrachloride	117.0	6.584	6.584	0.000	366629	20.000	22.778	
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	194606	20.000	20.444	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	993502	20.000	21.313	
37 Benzene	78.0	6.856	6.856	0.000	981050	20.000	20.018	
39 1,2-Dichloroethane	62.0	6.868	6.868	0.000	265665	20.000	19.434	
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	265263	5.0000	5.0000	
42 Trichloroethene	95.0	7.720	7.720	0.000	287433	20.000	20.235	
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	262758	20.000	20.510	
43 Methylcyclohexane	83.0	7.981	7.981	0.000	450947	20.000	23.559	
45 1,2-Dichloropropane	63.0	8.016	8.016	0.000	270911	20.000	19.296	
156 2,3-dichloropropene	75.0	8.075	8.075	0.000	346605	20.000	22.233	
49 Bromodichloromethane	83.0	8.383	8.383	0.000	275996	20.000	19.459	
50 cis-1,3-Dichloropropene	75.0	8.986	8.986	0.000	303815	20.000	20.294	
51 4-Methyl-2-pentanone	43.0	9.199	9.199	0.000	984090	200.00	206.06	
$ 52 Toluene-d8	98.0	9.353	9.353	0.000	925465	20.000	21.346	
53 Toluene	91.0	9.436	9.436	0.000	1036864	20.000	20.122	
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	199222	20.000	21.498	
55 trans-1,3-Dichloropropene	75.0	9.684	9.684	0.000	217765	20.000	20.506	
56 1,1,2-Trichloroethane	97.0	9.897	9.897	0.000	109413	20.000	19.460	
57 Tetrachloroethene	164.0	10.075	10.075	0.000	227002	20.000	20.722	
59 1,3-Dichloropropane	76.0	10.087	10.087	0.000	199111	20.000	19.397	
154 2-Bromo-1-chloropropane	77.0	9.803	9.803	0.000	231860	20.000	21.396	
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	275561	200.00	206.60	
60 2-Hexanone	43.0	10.170	10.170	0.000	637645	200.00	201.97	
61 Dibromochloromethane	129.0	10.335	10.335	0.000	149790	20.000	20.373	
62 1,2-Dibromoethane	107.0	10.454	10.454	0.000	106477	20.000	19.663	
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	207618	5.0000	5.0000	
64 Chlorobenzene	112.0	10.939	10.939	0.000	629981	20.000	19.172	
65 Ethylbenzene	91.0	11.045	11.045	0.000	1148452	20.000	20.201	
67 m+p-Xylenes	106.0	11.152	11.152	0.000	468939	20.000	20.145	
68 o-Xylene	106.0	11.507	11.507	0.000	431818	20.000	19.784	
69 Styrene	104.0	11.519	11.519	0.000	615048	20.000	20.556	
70 Bromoform	173.0	11.684	11.684	0.000	76693	20.000	21.915	
71 Isopropylbenzene	105.0	11.826	11.826	0.000	1117321	20.000	20.575	
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.051	12.051	0.000	98142	20.000	19.621	
74 1,1,2,2-Tetrachloroethane	83.0	12.063	12.063	0.000	98936	20.000	18.829	
76 1,2,3-Trichloropropane	75.0	12.110	12.110	0.000	124969	20.000	18.769	
157 2,3-dibromopropene	119.0	11.400	11.400	0.000	71077	20.000	15.397	
83 1,3-Dichlorobenzene	146.0	12.820	12.820	0.000	476574	20.000	19.198	
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	94170	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0	12.891	12.891	0.000	453979	20.000	19.219	
$ 87 1,2-Dichlorobenzene-d4	152.0	13.152	13.152	0.000	236863	20.000	20.961	
89 1,2-Dichlorobenzene	146.0	13.175	13.175	0.000	378070	20.000	18.887	
90 1,2-Dibromo-3-chloropropane	75.0	13.719	13.719	0.000	13826	20.000	20.490	
91 1,2,4-Trichlorobenzene	180.0	14.299	14.299	0.000	282735	20.000	19.924	
94 1,2,3-Trichlorobenzene	180.0	14.666	14.666	0.000	209387	20.000	19.236	

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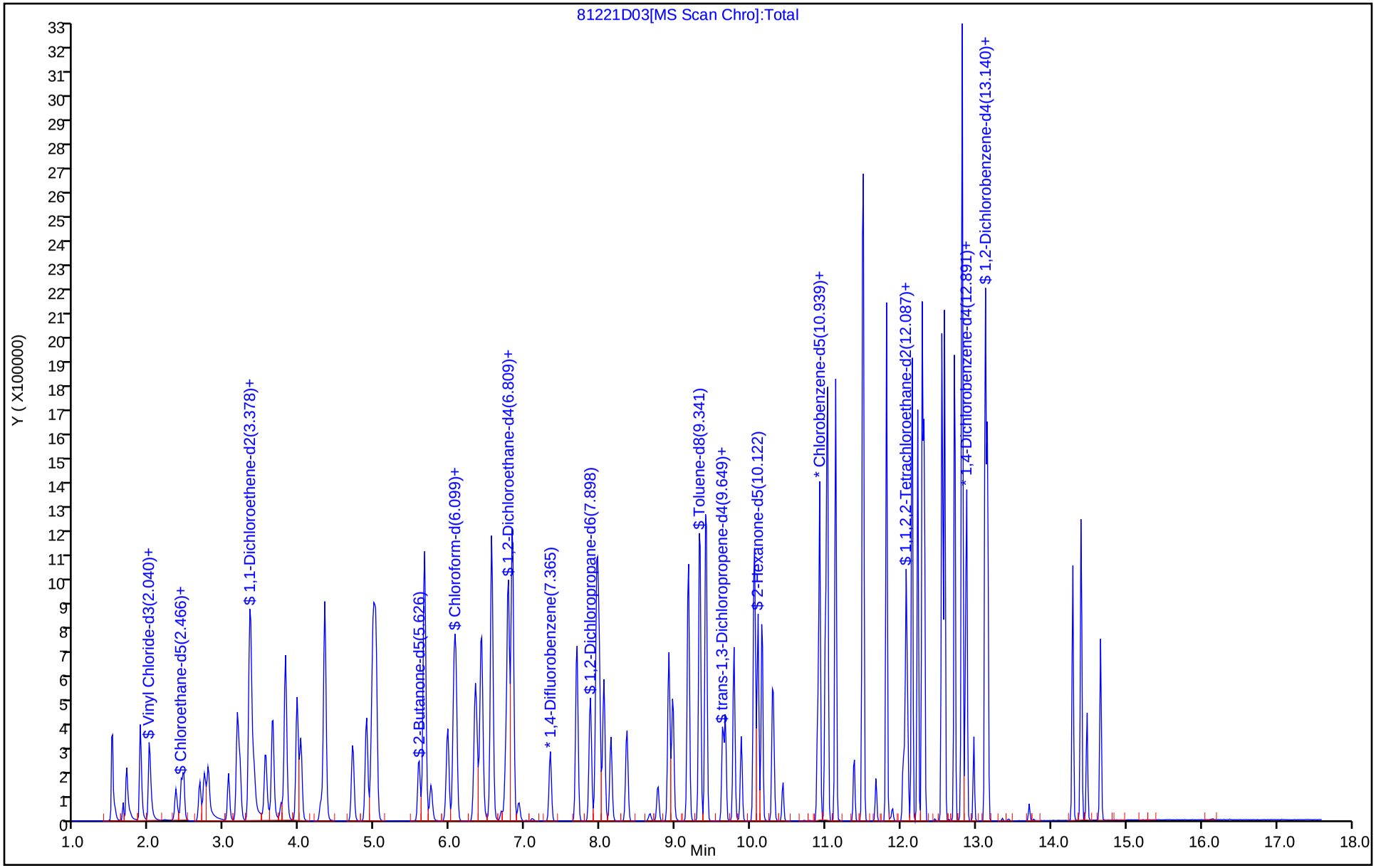
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D03.D				
Injection Date:	21-Dec-2015 12:45:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VSTD020RN	Lab ID:	VSTD020RN		
Sample Info:	8122115D.b, VSTD020RN				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D04.D		
Lab Sample ID:	VSTD010RN	Client Sample ID:	VSTD010RN
Injection Date:	21-Dec-2015 13:12:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, VSTD010RN		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Ical, Level: 4	ALS Bottle:	4
Cpnd Sublist:	2487.1.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	21-Dec-2015 15:00:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	1.745	1.745	0.000	114802	10.000	9.4442	
2 Chloromethane	50.0	1.934	1.934	0.000	196016	10.000	8.7299	
$ 3 Vinyl Chloride-d3	65.0	2.040	2.040	0.000	69739	10.000	9.0270	
4 Vinyl Chloride	62.0	2.052	2.052	0.000	122412	10.000	9.5918	
5 Bromomethane	94.0	2.395	2.395	0.000	63178	10.000	9.9751	
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	66208	10.000	9.8865	
7 Chloroethane	64.0	2.502	2.502	0.000	77541	10.000	10.199	
155 Vinyl bromide	106.0	2.715	2.715	0.000	72613	10.000	9.2414	
8 Trichlorofluoromethane	101.0	2.774	2.774	0.000	156026	10.000	10.258	
10 2-Chloropropane	43.0	3.212	3.212	0.000	218957	10.000	9.4007	
$ 12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	232457	10.000	9.1396	
13 1,1-Dichloroethene	96.0	3.389	3.389	0.000	96077	10.000	9.2135	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.413	3.413	0.000	48590	10.000	9.3568	
14 Acetone	43.0	3.437	3.437	0.000	100133	100.00	94.318	
15 Carbon Disulfide	76.0	3.685	3.685	0.000	316472	10.000	9.1906	
16 Methyl Acetate	43.0	3.875	3.875	0.000	50127	10.000	10.628	
17 Methylene Chloride	84.0	4.005	4.005	0.000	103335	10.000	9.1977	
18 1-Chloropropane	42.0	4.052	4.052	0.000	177435	10.000	8.9993	
20 Methyl tert-Butyl Ether	73.0	4.372	4.372	0.000	168811	10.000	10.155	
21 trans-1,2-Dichloroethene	96.0	4.372	4.372	0.000	120222	10.000	9.5900	
23 1,1-Dichloroethane	63.0	4.928	4.928	0.000	254194	10.000	9.5977	
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	217360	100.00	96.026	
26 cis-1,2-Dichloroethene	96.0	5.697	5.697	0.000	129427	10.000	9.6029	
28 2-Butanone	43.0	5.709	5.709	0.000	186087	100.00	97.050	
29 Bromochloromethane	128.0	6.016	6.016	0.000	45674	10.000	10.154	
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	212233	10.000	9.3617	
31 Chloroform	83.0	6.111	6.111	0.000	240280	10.000	8.8928	

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Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D04.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 1,1,1-Trichloroethane	97.0	6.371	6.371	0.000	182934	10.000	9.6086	
35 1,1-Dichloropropene	75.0	6.584	6.584	0.000	159043	10.000	9.5766	
32 Cyclohexane	56.0	6.454	6.454	0.000	242143	10.000	9.0118	
34 Carbon Tetrachloride	117.0	6.596	6.596	0.000	160437	10.000	9.8070	
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	90807	10.000	9.5287	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	439423	10.000	9.2748	
37 Benzene	78.0	6.856	6.856	0.000	486689	10.000	9.7708	
39 1,2-Dichloroethane	62.0	6.880	6.880	0.000	141703	10.000	10.354	
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	265565	5.0000	5.0000	
42 Trichloroethene	95.0	7.720	7.720	0.000	139531	10.000	9.6649	
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	120849	10.000	9.2811	
43 Methylcyclohexane	83.0	7.981	7.981	0.000	185321	10.000	9.5258	
45 1,2-Dichloropropane	63.0	8.016	8.016	0.000	148620	10.000	10.415	
156 2,3-dichloropropene	75.0	8.075	8.075	0.000	152256	10.000	9.6092	
49 Bromodichloromethane	83.0	8.383	8.383	0.000	155316	10.000	10.774	
50 cis-1,3-Dichloropropene	75.0	8.986	8.986	0.000	178196	10.000	11.711	
51 4-Methyl-2-pentanone	43.0	9.199	9.199	0.000	487649	100.00	100.47	
$ 52 Toluene-d8	98.0	9.353	9.353	0.000	411149	10.000	9.3306	
53 Toluene	91.0	9.436	9.436	0.000	551806	10.000	10.536	
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	95441	10.000	10.133	
55 trans-1,3-Dichloropropene	75.0	9.685	9.685	0.000	127089	10.000	11.775	
56 1,1,2-Trichloroethane	97.0	9.898	9.898	0.000	64343	10.000	11.260	
57 Tetrachloroethene	164.0	10.075	10.075	0.000	111717	10.000	10.034	
59 1,3-Dichloropropane	76.0	10.087	10.087	0.000	117728	10.000	11.284	
154 2-Bromo-1-chloropropane	77.0	9.803	9.803	0.000	105260	10.000	9.5573	
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	139985	100.00	103.27	
60 2-Hexanone	43.0	10.170	10.170	0.000	325816	100.00	101.54	
61 Dibromochloromethane	129.0	10.335	10.335	0.000	90285	10.000	12.082	
62 1,2-Dibromoethane	107.0	10.454	10.454	0.000	63310	10.000	11.503	
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	211014	5.0000	5.0000	
64 Chlorobenzene	112.0	10.939	10.939	0.000	367265	10.000	10.997	
65 Ethylbenzene	91.0	11.045	11.045	0.000	631766	10.000	10.934	
67 m+p-Xylenes	106.0	11.152	11.152	0.000	262476	10.000	11.094	
68 o-Xylene	106.0	11.507	11.507	0.000	246189	10.000	11.098	
69 Styrene	104.0	11.519	11.519	0.000	357434	10.000	11.754	
70 Bromoform	173.0	11.684	11.684	0.000	44188	10.000	11.870	
71 Isopropylbenzene	105.0	11.826	11.826	0.000	609427	10.000	11.042	
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.039	12.039	0.000	48579	10.000	9.5557	
74 1,1,2,2-Tetrachloroethane	83.0	12.063	12.063	0.000	60339	10.000	11.298	
76 1,2,3-Trichloropropane	75.0	12.110	12.110	0.000	76683	10.000	11.332	
157 2,3-dibromopropene	119.0	11.400	11.400	0.000	34398	10.000	7.3314	
83 1,3-Dichlorobenzene	146.0	12.820	12.820	0.000	283670	10.000	10.742	
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	100176	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0	12.891	12.891	0.000	272841	10.000	10.858	
$ 87 1,2-Dichlorobenzene-d4	152.0	13.152	13.152	0.000	112169	10.000	9.3311	
89 1,2-Dichlorobenzene	146.0	13.175	13.175	0.000	228372	10.000	10.725	
90 1,2-Dibromo-3-chloropropane	75.0	13.720	13.720	0.000	8165	10.000	11.375	
91 1,2,4-Trichlorobenzene	180.0	14.299	14.299	0.000	162776	10.000	10.783	
94 1,2,3-Trichlorobenzene	180.0	14.666	14.666	0.000	123053	10.000	10.627	

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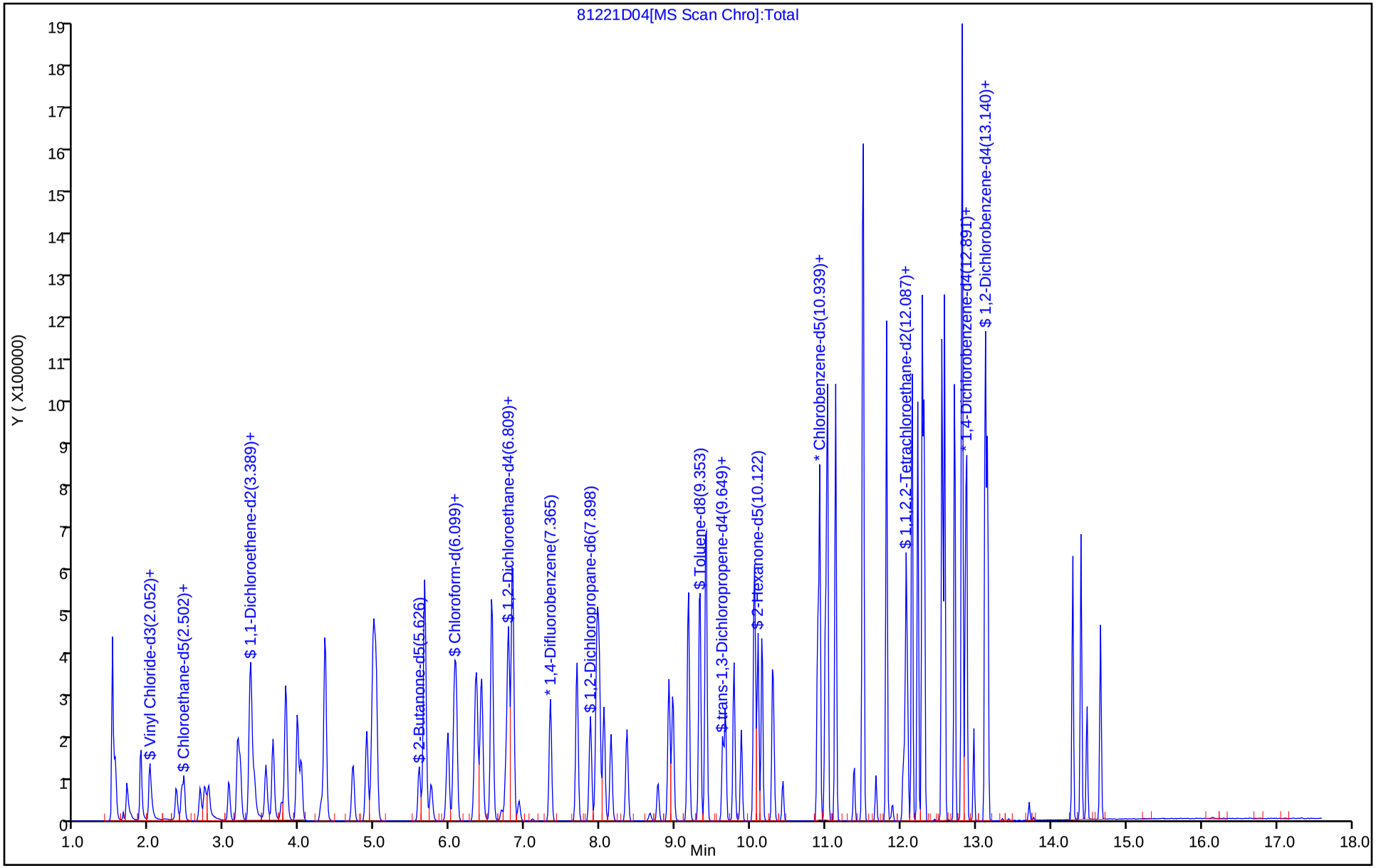
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D04.D				
Injection Date:	21-Dec-2015 13:12:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VSTD010RN	Lab ID:	VSTD010RN		
Sample Info:	8122115D.b, VSTD010RN				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D05.D		
Lab Sample ID:	VSTD005RN	Client Sample ID:	VSTD005RN
Injection Date:	21-Dec-2015 13:39:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, VSTD005RN		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Ical, Level: 3	ALS Bottle:	5
Cpnd Sublist:	2487.1.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	21-Dec-2015 15:00:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	1.745	1.745	0.000	72158	5.0000	6.0485	
2 Chloromethane	50.0	1.922	1.922	0.000	113723	5.0000	5.1607	
$ 3 Vinyl Chloride-d3	65.0	2.041	2.041	0.000	42670	5.0000	5.6277	
4 Vinyl Chloride	62.0	2.052	2.052	0.000	70758	5.0000	5.6493	
5 Bromomethane	94.0	2.396	2.396	0.000	30503	5.0000	4.9072	
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	37452	5.0000	5.6983	
7 Chloroethane	64.0	2.502	2.502	0.000	41024	5.0000	5.4980	
155 Vinyl bromide	106.0	2.715	2.715	0.000	41780	5.0000	5.4180	
8 Trichlorofluoromethane	101.0	2.786	2.786	0.000	87073	5.0000	5.8332	
10 2-Chloropropane	43.0	3.212	3.212	0.000	126093	5.0000	5.5162	
$ 12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	139517	5.0000	5.5893	
13 1,1-Dichloroethene	96.0	3.390	3.390	0.000	60291	5.0000	5.8911	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.413	3.413	0.000	33925	5.0000	6.6565	
14 Acetone	43.0	3.437	3.437	0.000	54443	50.000	52.252	
15 Carbon Disulfide	76.0	3.685	3.685	0.000	195043	5.0000	5.7714	
16 Methyl Acetate	43.0	3.875	3.875	0.000	25618	5.0000	5.5346	
17 Methylene Chloride	84.0	4.005	4.005	0.000	57981	5.0000	5.2585	
18 1-Chloropropane	42.0	4.052	4.052	0.000	108301	5.0000	5.5969	
20 Methyl tert-Butyl Ether	73.0	4.372	4.372	0.000	86399	5.0000	5.2957	
21 trans-1,2-Dichloroethene	96.0	4.372	4.372	0.000	70314	5.0000	5.7150	
23 1,1-Dichloroethane	63.0	4.928	4.928	0.000	144110	5.0000	5.5442	
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	119332	50.000	53.717	
26 cis-1,2-Dichloroethene	96.0	5.697	5.697	0.000	70649	5.0000	5.3410	
28 2-Butanone	43.0	5.709	5.709	0.000	96471	50.000	51.265	
29 Bromochloromethane	128.0	6.005	6.005	0.000	24063	5.0000	5.4509	
$ 30 Chloroform-d	84.0	6.088	6.088	0.000	117094	5.0000	5.2628	
31 Chloroform	83.0	6.111	6.111	0.000	124976	5.0000	4.7129	

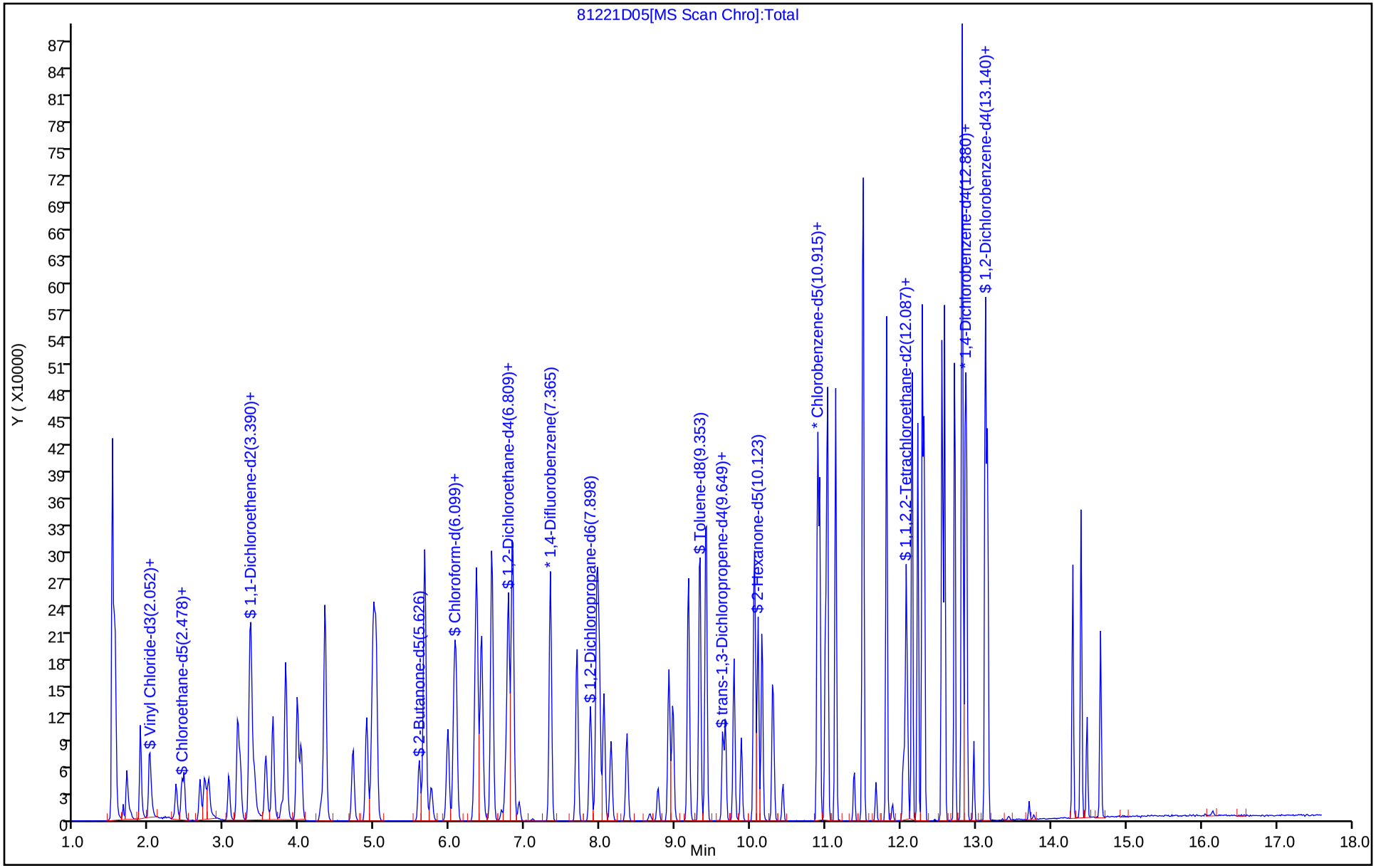
Report Date: 22-Dec-2015 08:28:59 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D05.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 1,1,1-Trichloroethane	97.0	6.371	6.371	0.000	106556	5.0000	5.8090	
35 1,1-Dichloropropene	75.0	6.584	6.584	0.000	94250	5.0000	5.7826	
32 Cyclohexane	56.0	6.454	6.454	0.000	156144	5.0000	6.0315	
34 Carbon Tetrachloride	117.0	6.596	6.596	0.000	93427	5.0000	5.9274	
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	52898	5.0000	5.6559	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	246432	5.0000	5.3986	
37 Benzene	78.0	6.857	6.857	0.000	260905	5.0000	5.4365	
39 1,2-Dichloroethane	62.0	6.880	6.880	0.000	73008	5.0000	5.4356	
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	260632	5.0000	5.0000	
42 Trichloroethene	95.0	7.720	7.720	0.000	76707	5.0000	5.5147	
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	66052	5.0000	5.2651	
43 Methylcyclohexane	83.0	7.981	7.981	0.000	115662	5.0000	6.1706	
45 1,2-Dichloropropane	63.0	8.016	8.016	0.000	72947	5.0000	5.3058	
156 2,3-dichloropropene	75.0	8.075	8.075	0.000	82556	5.0000	5.4078	
49 Bromodichloromethane	83.0	8.383	8.383	0.000	71459	5.0000	5.1449	
50 cis-1,3-Dichloropropene	75.0	8.987	8.987	0.000	82455	5.0000	5.6246	
51 4-Methyl-2-pentanone	43.0	9.200	9.200	0.000	250596	50.000	53.586	
$ 52 Toluene-d8	98.0	9.353	9.353	0.000	231461	5.0000	5.4519	
53 Toluene	91.0	9.436	9.436	0.000	271827	5.0000	5.3870	
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	49265	5.0000	5.4289	
55 trans-1,3-Dichloropropene	75.0	9.685	9.685	0.000	56109	5.0000	5.3956	
56 1,1,2-Trichloroethane	97.0	9.898	9.898	0.000	28832	5.0000	5.2369	
57 Tetrachloroethene	164.0	10.075	10.075	0.000	61149	5.0000	5.7003	
59 1,3-Dichloropropane	76.0	10.087	10.087	0.000	53620	5.0000	5.3343	
154 2-Bromo-1-chloropropane	77.0	9.803	9.803	0.000	56541	5.0000	5.3283	
$ 58 2-Hexanone-d5	63.0	10.123	10.123	0.000	73518	50.000	56.289	
60 2-Hexanone	43.0	10.170	10.170	0.000	166453	50.000	53.842	
61 Dibromochloromethane	129.0	10.324	10.324	0.000	37375	5.0000	5.1912	
62 1,2-Dibromoethane	107.0	10.454	10.454	0.000	28497	5.0000	5.3741	
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	203307	5.0000	5.0000	
64 Chlorobenzene	112.0	10.939	10.939	0.000	168044	5.0000	5.2224	
65 Ethylbenzene	91.0	11.045	11.045	0.000	304030	5.0000	5.4611	
67 m+p-Xylenes	106.0	11.152	11.152	0.000	123266	5.0000	5.4077	
68 o-Xylene	106.0	11.507	11.507	0.000	113137	5.0000	5.2933	
69 Styrene	104.0	11.519	11.519	0.000	159431	5.0000	5.4413	
70 Bromoform	173.0	11.684	11.684	0.000	18857	5.0000	5.4064	
71 Isopropylbenzene	105.0	11.826	11.826	0.000	297358	5.0000	5.5918	
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.039	12.039	0.000	25872	5.0000	5.2820	
74 1,1,2,2-Tetrachloroethane	83.0	12.063	12.063	0.000	27896	5.0000	5.4215	
76 1,2,3-Trichloropropane	75.0	12.110	12.110	0.000	35616	5.0000	5.4626	
157 2,3-dibromopropene	119.0	11.400	11.400	0.000	15309	5.0000	3.3866	
83 1,3-Dichlorobenzene	146.0	12.820	12.820	0.000	132705	5.0000	5.3638	
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	93856	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0	12.891	12.891	0.000	123240	5.0000	5.2346	
$ 87 1,2-Dichlorobenzene-d4	152.0	13.152	13.152	0.000	61694	5.0000	5.4778	
89 1,2-Dichlorobenzene	146.0	13.175	13.175	0.000	102872	5.0000	5.1563	
90 1,2-Dibromo-3-chloropropane	75.0	13.720	13.720	0.000	3985	5.0000	5.9256	
91 1,2,4-Trichlorobenzene	180.0	14.300	14.300	0.000	75376	5.0000	5.3293	
94 1,2,3-Trichlorobenzene	180.0	14.666	14.666	0.000	56573	5.0000	5.2146	

Report Date: 22-Dec-2015 08:28:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D05.D				
Injection Date:	21-Dec-2015 13:39:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VSTD005RN	Lab ID:	VSTD005RN		
Sample Info:	8122115D.b, VSTD005RN				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D06.D		
Lab Sample ID:	VSTD001RN	Client Sample ID:	VSTD001RN
Injection Date:	21-Dec-2015 14:05:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, VSTD001RN		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Ical, Level: 2	ALS Bottle:	6
Cpnd Sublist:	2487.1.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	21-Dec-2015 14:53:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	1.744	1.744	0.000	11567	1.0000	0.96676	
2 Chloromethane	50.0	1.922	1.922	0.000	22337	1.0000	1.0107	
$ 3 Vinyl Chloride-d3	65.0	2.040	2.040	0.000	7410	1.0000	0.97447	
4 Vinyl Chloride	62.0	2.052	2.052	0.000	12680	1.0000	1.0094	
5 Bromomethane	94.0	2.395	2.395	0.000	6002	1.0000	0.96279	
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	6477	1.0000	0.98262	
7 Chloroethane	64.0	2.502	2.502	0.000	7336	1.0000	0.98031	
155 Vinyl bromide	106.0	2.715	2.715	0.000	8162	1.0000	1.0554	
8 Trichlorofluoromethane	101.0	2.774	2.774	0.000	14149	1.0000	0.94512	
10 2-Chloropropane	43.0	3.212	3.212	0.000	23170	1.0000	1.0107	
$ 12 1,1-Dichloroethene-d2	63.0	3.377	3.377	0.000	23349	1.0000	0.93269	
13 1,1-Dichloroethene	96.0	3.389	3.389	0.000	9753	1.0000	0.95022	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.413	3.413	0.000	4741	1.0000	0.92755	M
14 Acetone	43.0	3.448	3.448	0.000	10234	10.000	9.7937	
15 Carbon Disulfide	76.0	3.685	3.685	0.000	32582	1.0000	0.96132	
16 Methyl Acetate	43.0	3.874	3.874	0.000	4122	1.0000	0.88795	
17 Methylene Chloride	84.0	4.005	4.005	0.000	11199	1.0000	1.0127	
18 1-Chloropropane	42.0	4.052	4.052	0.000	19663	1.0000	1.0132	M
20 Methyl tert-Butyl Ether	73.0	4.371	4.371	0.000	15566	1.0000	0.95133	
21 trans-1,2-Dichloroethene	96.0	4.371	4.371	0.000	11421	1.0000	0.92559	
23 1,1-Dichloroethane	63.0	4.927	4.927	0.000	25508	1.0000	0.97850	
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	21635	10.000	9.7107	
26 cis-1,2-Dichloroethene	96.0	5.697	5.697	0.000	13034	1.0000	0.98251	
28 2-Butanone	43.0	5.708	5.708	0.000	18056	10.000	9.5672	
29 Bromochloromethane	128.0	6.004	6.004	0.000	4193	1.0000	0.94707	
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	21750	1.0000	0.97473	
31 Chloroform	83.0	6.111	6.111	0.000	26599	1.0000	1.0002	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 1,1,1-Trichloroethane	97.0	6.371	6.371	0.000	17713	1.0000	0.93190	
35 1,1-Dichloropropene	75.0	6.584	6.584	0.000	15265	1.0000	0.93385	
32 Cyclohexane	56.0	6.454	6.454	0.000	22304	1.0000	0.83144	
34 Carbon Tetrachloride	117.0	6.584	6.584	0.000	14327	1.0000	0.87720	
$ 38 1,2-Dichloroethane-d4	65.0	6.773	6.773	0.000	9181	1.0000	0.97879	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	45557	1.0000	0.96314	
37 Benzene	78.0	6.856	6.856	0.000	47369	1.0000	0.95254	
39 1,2-Dichloroethane	62.0	6.880	6.880	0.000	12075	1.0000	0.89641	
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	261389	5.0000	5.0000	
42 Trichloroethene	95.0	7.720	7.720	0.000	13505	1.0000	0.93698	
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	13368	1.0000	1.0283	
43 Methylcyclohexane	83.0	7.980	7.980	0.000	17383	1.0000	0.89498	
45 1,2-Dichloropropane	63.0	8.016	8.016	0.000	13542	1.0000	0.95056	M
156 2,3-dichloropropene	75.0	8.075	8.075	0.000	15177	1.0000	0.95942	
49 Bromodichloromethane	83.0	8.383	8.383	0.000	13294	1.0000	0.92369	
50 cis-1,3-Dichloropropene	75.0	8.998	8.998	0.000	12943	1.0000	0.85204	
51 4-Methyl-2-pentanone	43.0	9.199	9.199	0.000	42590	10.000	8.7889	
$ 52 Toluene-d8	98.0	9.341	9.341	0.000	41681	1.0000	0.94746	
53 Toluene	91.0	9.436	9.436	0.000	48348	1.0000	0.92466	
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	8806	1.0000	0.93649	
55 trans-1,3-Dichloropropene	75.0	9.684	9.684	0.000	9008	1.0000	0.83597	
56 1,1,2-Trichloroethane	97.0	9.897	9.897	0.000	5018	1.0000	0.87959	
57 Tetrachloroethene	164.0	10.075	10.075	0.000	9769	1.0000	0.87884	
59 1,3-Dichloropropane	76.0	10.087	10.087	0.000	8736	1.0000	0.83872	
154 2-Bromo-1-chloropropane	77.0	9.803	9.803	0.000	10947	1.0000	0.9956	
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	12068	10.000	8.9170	
60 2-Hexanone	43.0	10.169	10.169	0.000	29644	10.000	9.2537	
61 Dibromochloromethane	129.0	10.323	10.323	0.000	6324	1.0000	0.84768	
62 1,2-Dibromoethane	107.0	10.453	10.453	0.000	4658	1.0000	0.84773	M
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	210669	5.0000	5.0000	
64 Chlorobenzene	112.0	10.939	10.939	0.000	29721	1.0000	0.89137	
65 Ethylbenzene	91.0	11.045	11.045	0.000	52199	1.0000	0.90485	
67 m+p-Xylenes	106.0	11.152	11.152	0.000	21076	1.0000	0.89230	
68 o-Xylene	106.0	11.507	11.507	0.000	20369	1.0000	0.91969	
69 Styrene	104.0	11.518	11.518	0.000	25691	1.0000	0.84619	
70 Bromoform	173.0	11.684	11.684	0.000	3055	1.0000	0.86938	
71 Isopropylbenzene	105.0	11.826	11.826	0.000	49755	1.0000	0.90295	
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.051	12.051	0.000	5091	1.0000	1.0031	
74 1,1,2,2-Tetrachloroethane	83.0	12.063	12.063	0.000	4861	1.0000	0.91171	
76 1,2,3-Trichloropropane	75.0	12.110	12.110	0.000	5633	1.0000	0.83376	
157 2,3-dibromopropene	119.0	11.400	11.400	0.000	2602	1.0000	0.65128	M
83 1,3-Dichlorobenzene	146.0	12.820	12.820	0.000	23404	1.0000	0.93894	
* 85 1,4-Dichlorobenzene-d4	152.0	12.867	12.867	0.000	94558	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0	12.891	12.891	0.000	22462	1.0000	0.94699	
$ 87 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	10919	1.0000	0.96230	
89 1,2-Dichlorobenzene	146.0	13.175	13.175	0.000	18810	1.0000	0.93583	
90 1,2-Dibromo-3-chloropropane	75.0	13.719	13.719	0.000	762	1.0000	1.1247	
91 1,2,4-Trichlorobenzene	180.0	14.299	14.299	0.000	12903	1.0000	0.90551	
94 1,2,3-Trichlorobenzene	180.0	14.666	14.666	0.000	10911	1.0000	0.9983	

QC Flag Legend

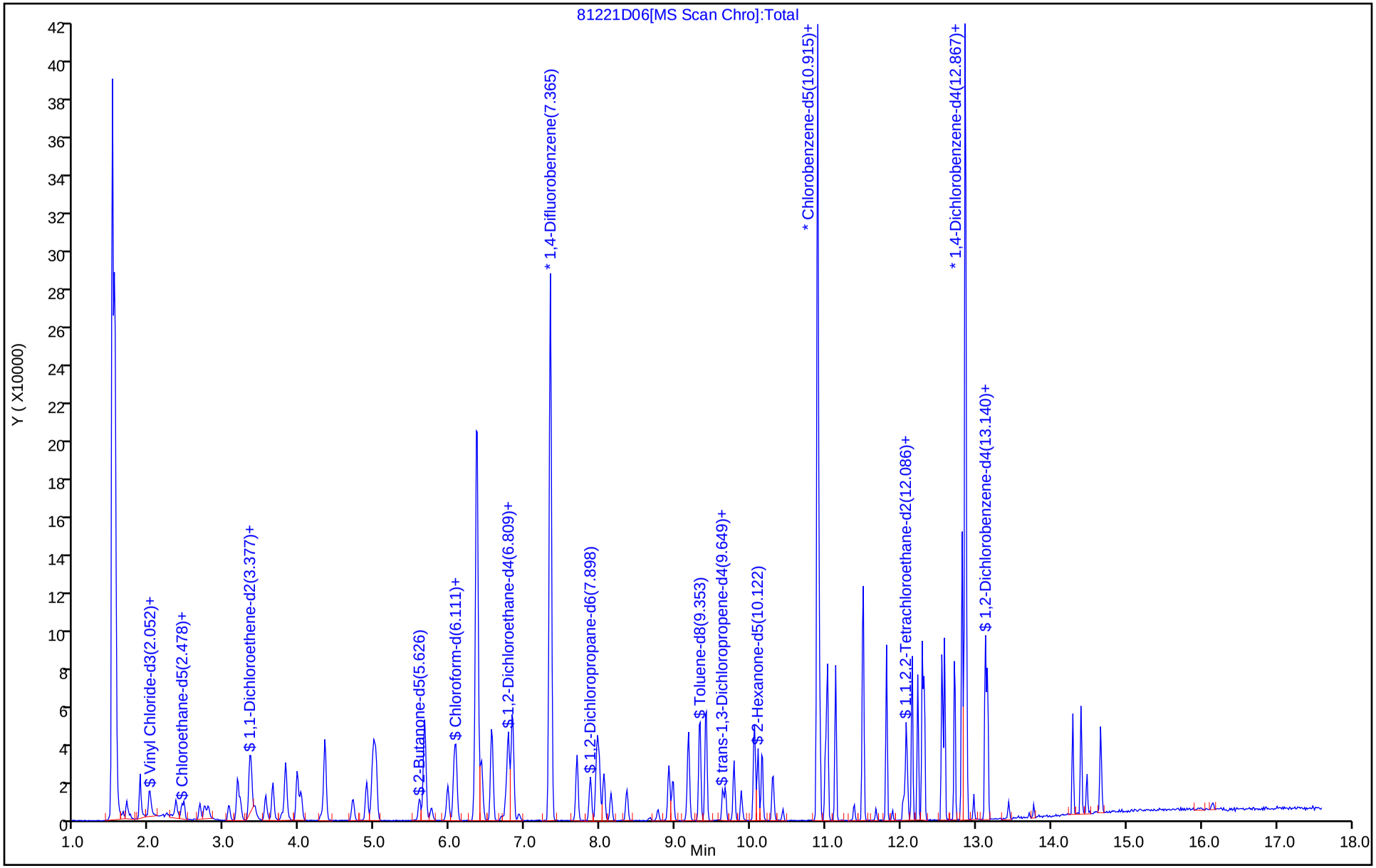
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 22-Dec-2015 08:28:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D06.D				
Injection Date:	21-Dec-2015 14:05:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VSTD001RN	Lab ID:	VSTD001RN		
Sample Info:	8122115D.b, VSTD001RN				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 22-Dec-2015 08:28:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

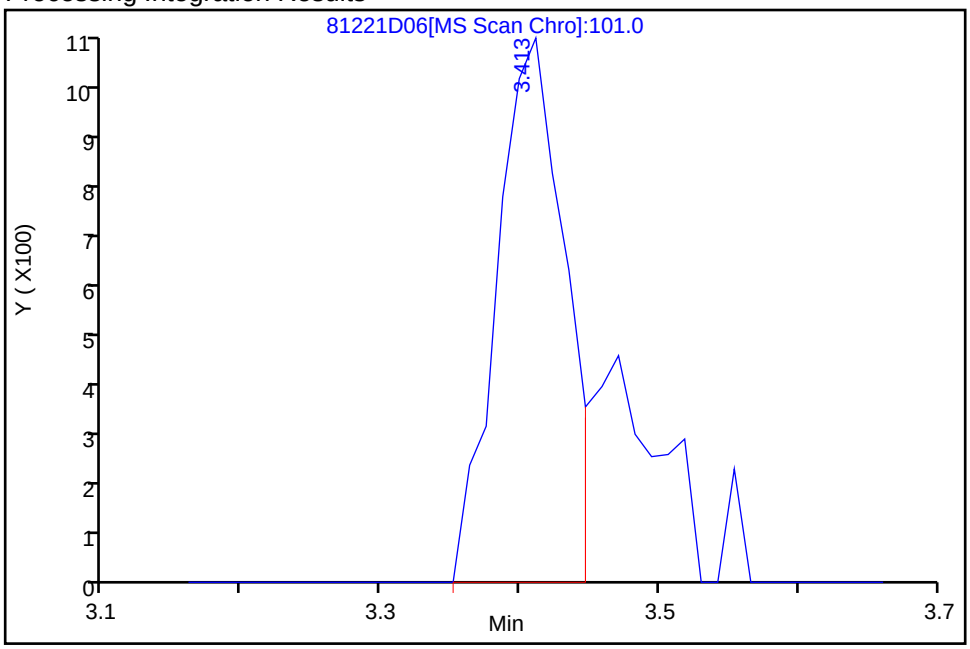
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D06.D		
Injection Date:	21-Dec-2015 14:05:30	Inst. ID:	msd8.i
Client ID:	VSTD001RN	Lab ID:	VSTD001RN
Sample Info:	8122115D.b, VSTD001RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

11 1,1,2-Trichloro-1,2,2-trifluo, CAS: 76-13-1

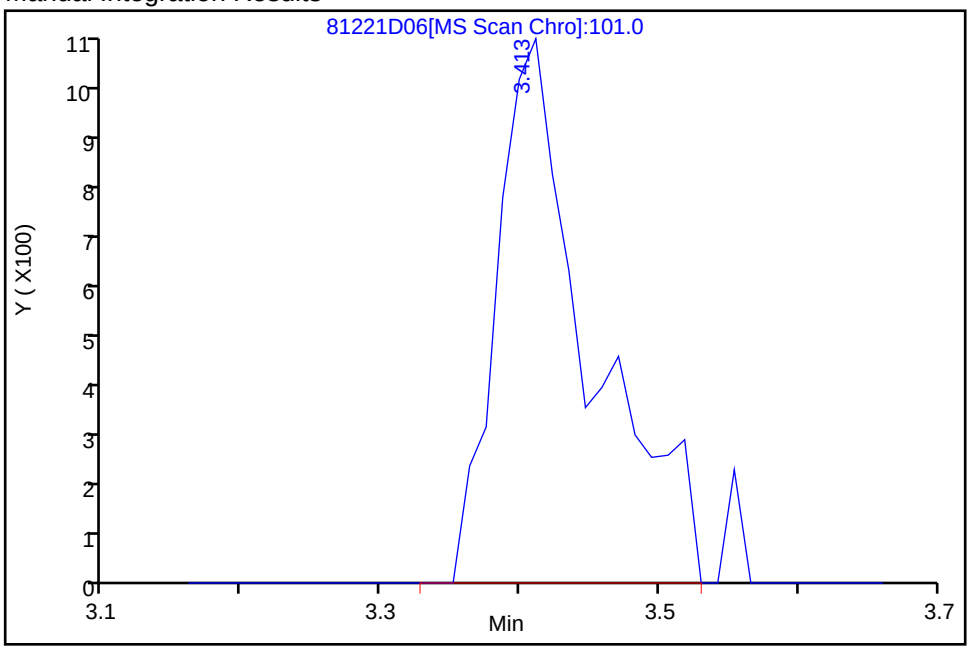
Processing Integration Results

RT: 3.413
Area: 3340
Amount: 0.69135
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 3.413
Area: 4741
Amount: 0.92755
Amount Units: ug/L



Data Editor: all, 21-Dec-2015 14:25:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 22-Dec-2015 08:28:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

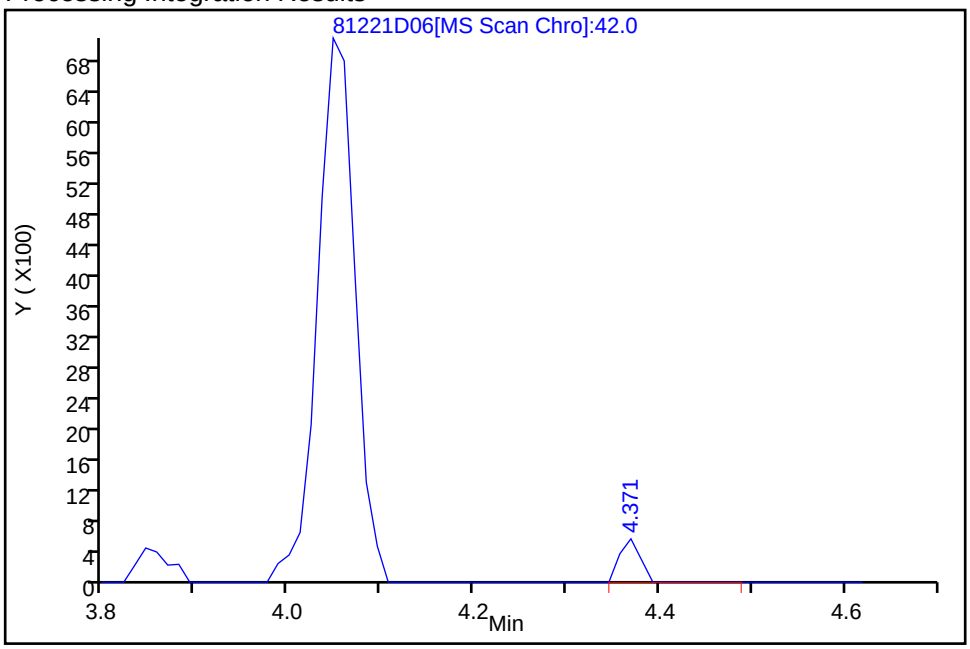
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D06.D		
Injection Date:	21-Dec-2015 14:05:30	Inst. ID:	msd8.i
Client ID:	VSTD001RN	Lab ID:	VSTD001RN
Sample Info:	8122115D.b, VSTD001RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

18 1-Chloropropane, CAS: 540-54-5

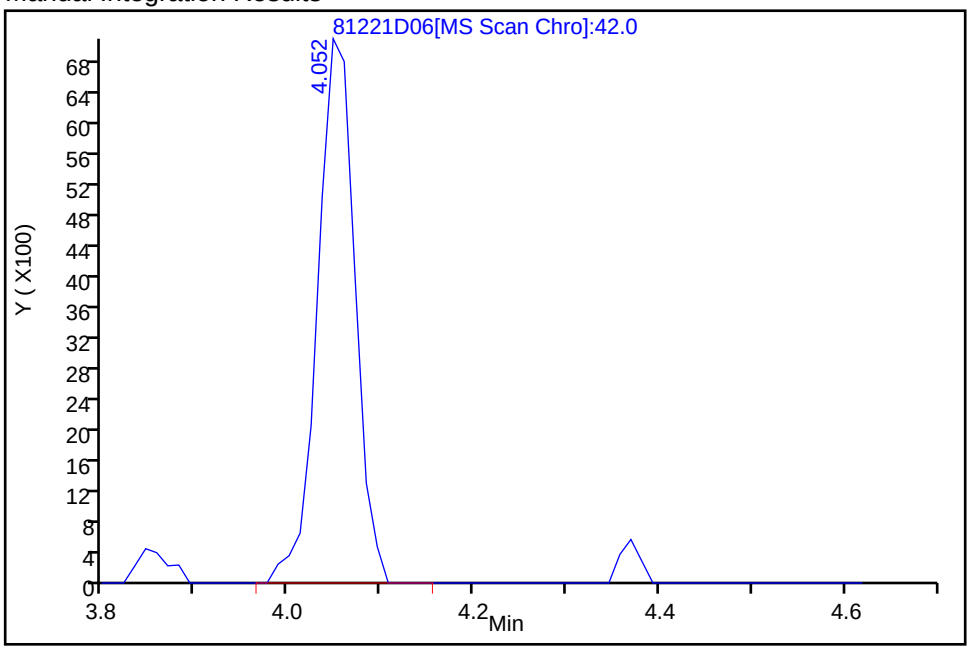
Processing Integration Results

RT: 4.371
Area: 859
Amount: 0.05490
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 4.052
Area: 19663
Amount: 1.0132
Amount Units: ug/L



Data Editor: all, 21-Dec-2015 14:26:30
Audit Action: Mint
Audit Reason: MSID

Report Date: 22-Dec-2015 08:28:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

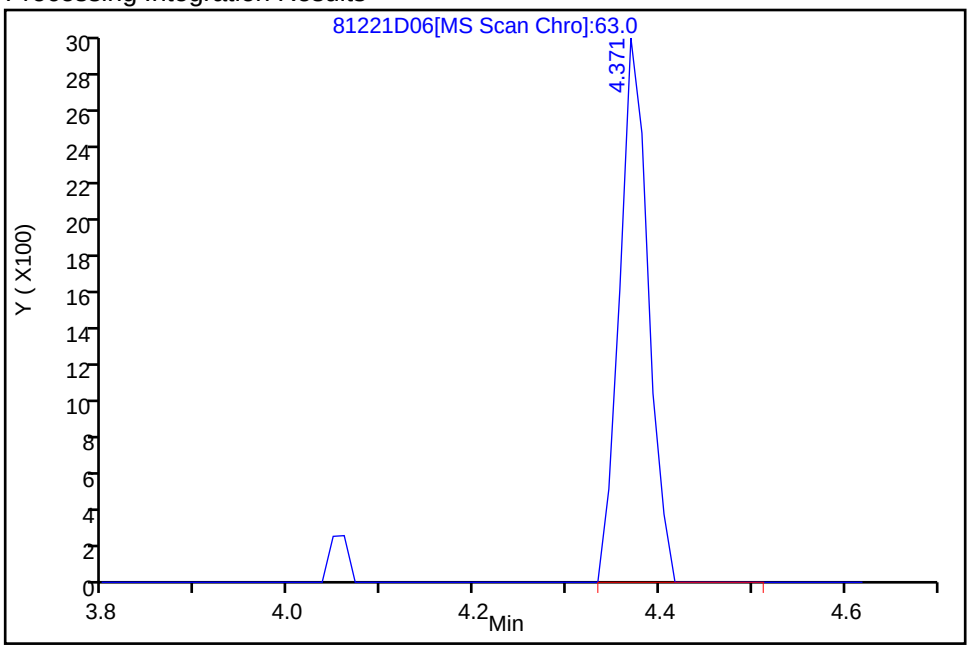
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D06.D		
Injection Date:	21-Dec-2015 14:05:30	Inst. ID:	msd8.i
Client ID:	VSTD001RN	Lab ID:	VSTD001RN
Sample Info:	8122115D.b, VSTD001RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

18 1-Chloropropane, CAS: 540-54-5

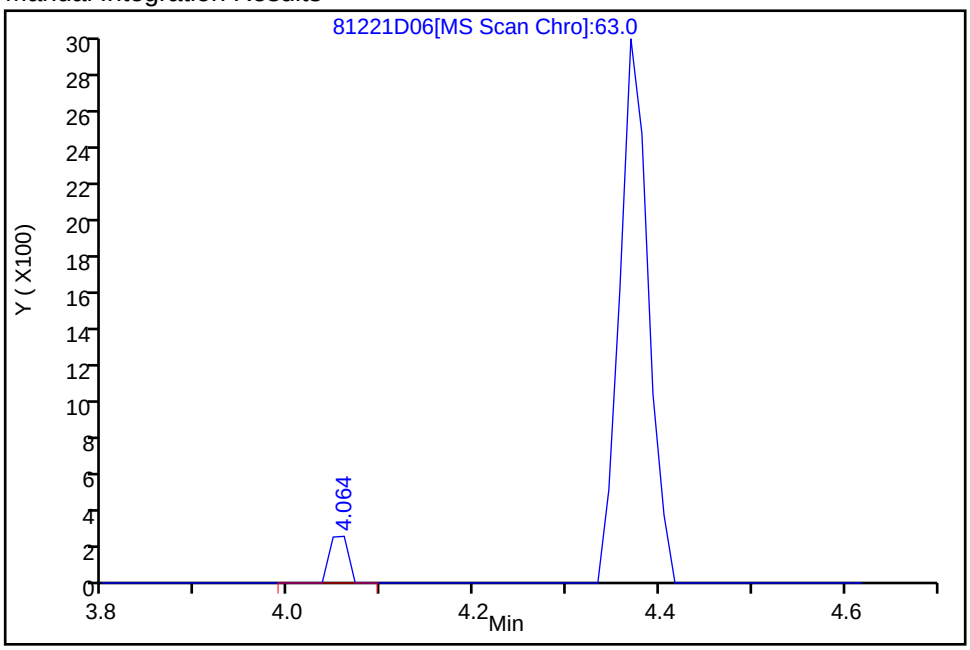
Processing Integration Results

RT: 4.371
Area: 6377
Amount: 0.05490
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 4.064
Area: 360
Amount: 1.0132
Amount Units: ug/L



Data Editor: all, 21-Dec-2015 14:26:30
Audit Action: Mint
Audit Reason: MSID

Report Date: 22-Dec-2015 08:28:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

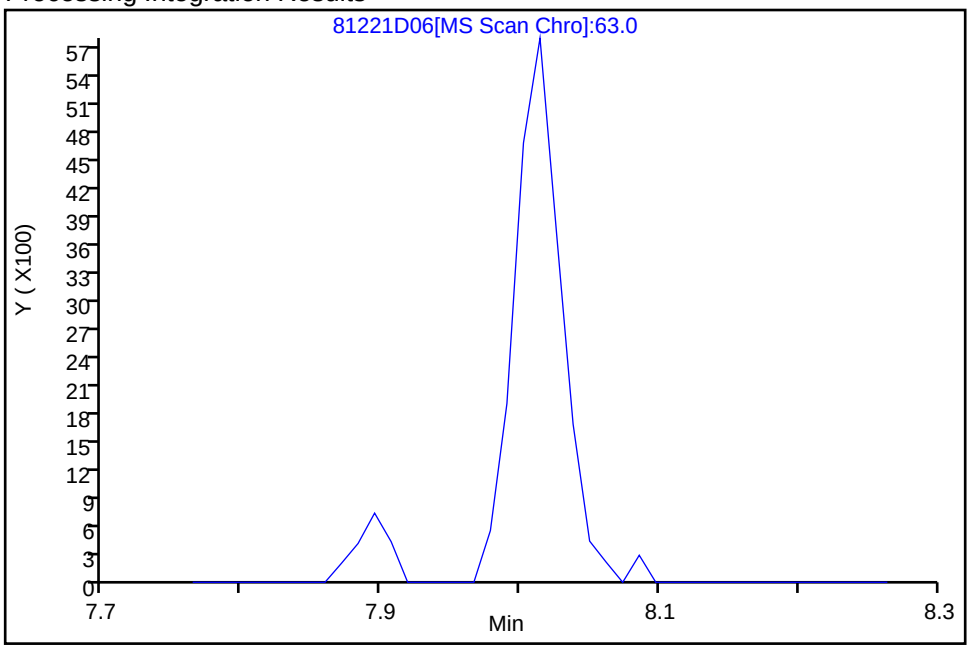
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D06.D		
Injection Date:	21-Dec-2015 14:05:30	Inst. ID:	msd8.i
Client ID:	VSTD001RN	Lab ID:	VSTD001RN
Sample Info:	8122115D.b, VSTD001RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

45 1,2-Dichloropropane, CAS: 78-87-5

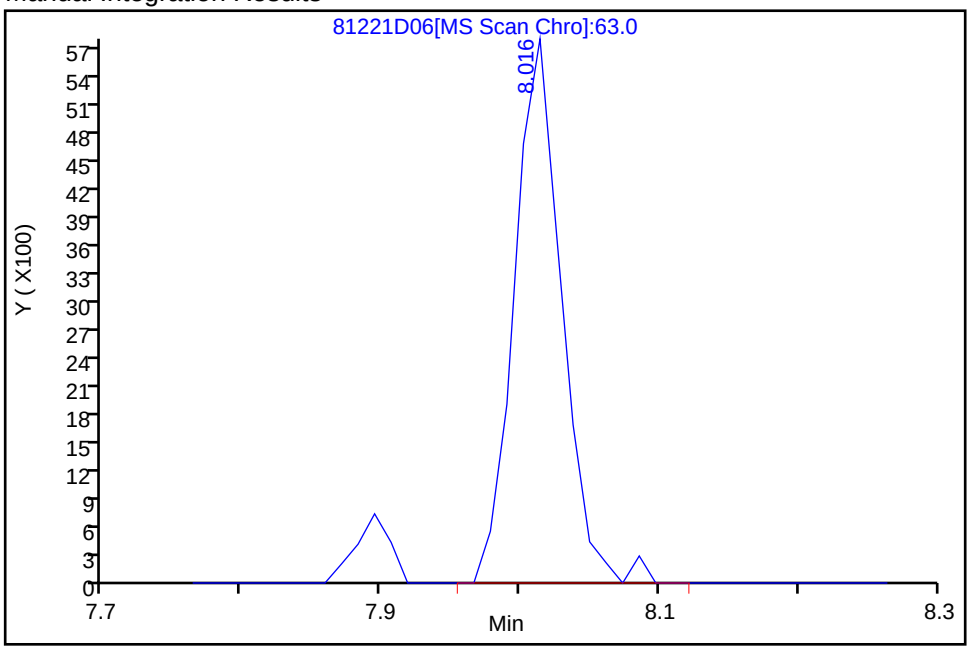
Not Detected
8.016

Processing Integration Results



Manual Integration Results

RT:	8.016
Area:	13542
Amount:	0.95056
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:25:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 22-Dec-2015 08:28:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

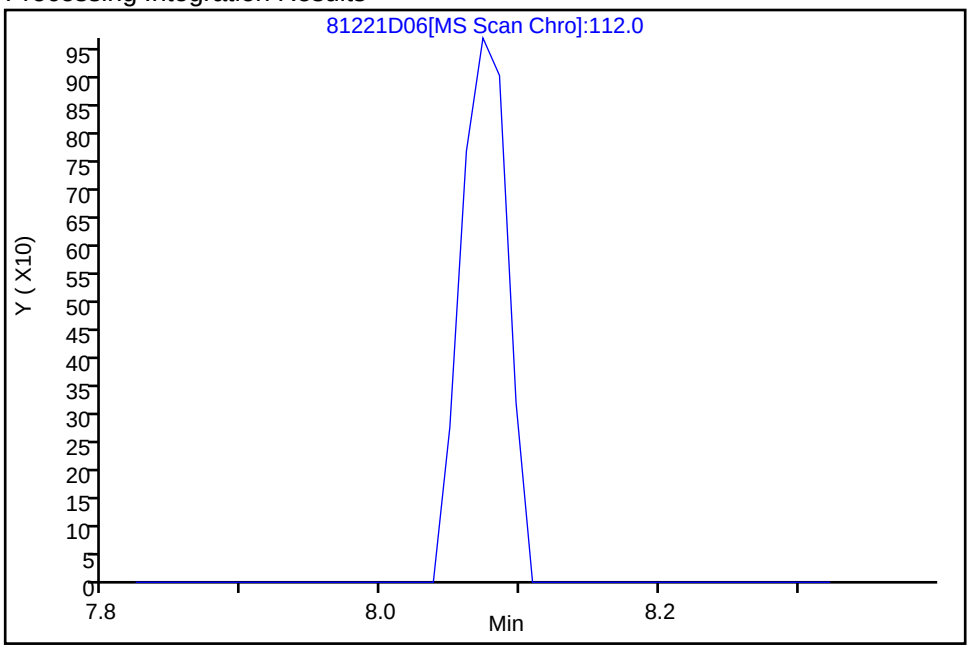
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D06.D		
Injection Date:	21-Dec-2015 14:05:30	Inst. ID:	msd8.i
Client ID:	VSTD001RN	Lab ID:	VSTD001RN
Sample Info:	8122115D.b, VSTD001RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

45 1,2-Dichloropropane, CAS: 78-87-5

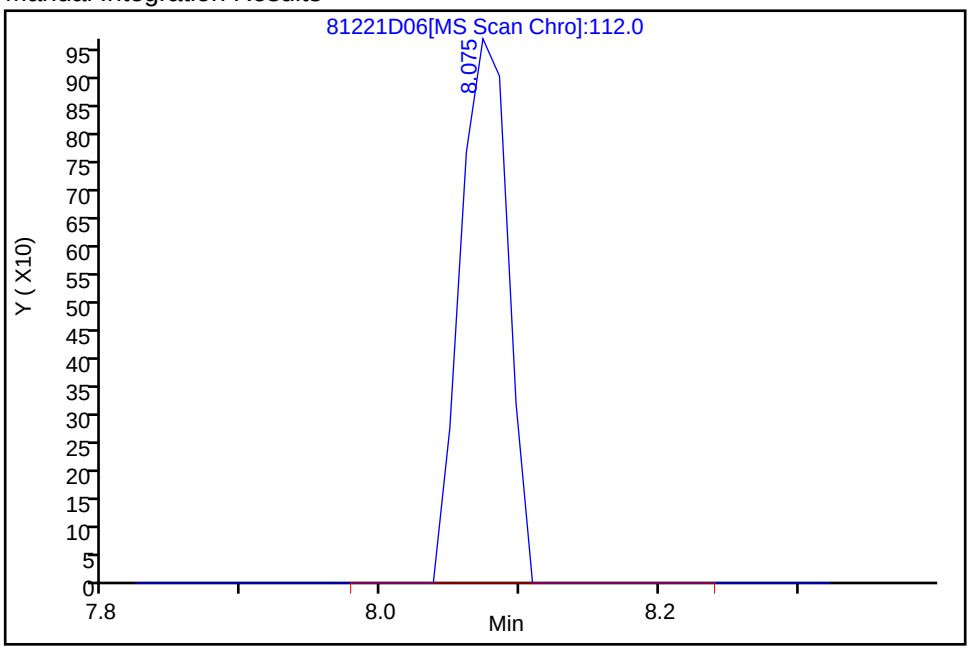
Not Detected
8.075

Processing Integration Results



Manual Integration Results

RT:	8.075
Area:	2278
Amount:	0.95056
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:25:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 22-Dec-2015 08:28:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

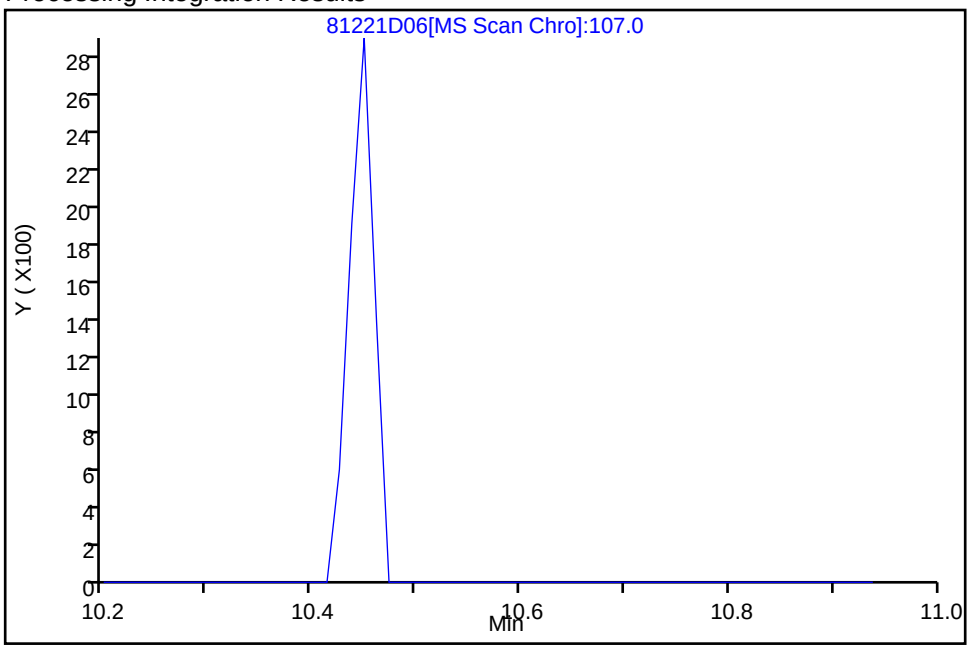
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D06.D		
Injection Date:	21-Dec-2015 14:05:30	Inst. ID:	msd8.i
Client ID:	VSTD001RN	Lab ID:	VSTD001RN
Sample Info:	8122115D.b, VSTD001RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

62 1,2-Dibromoethane, CAS: 106-93-4

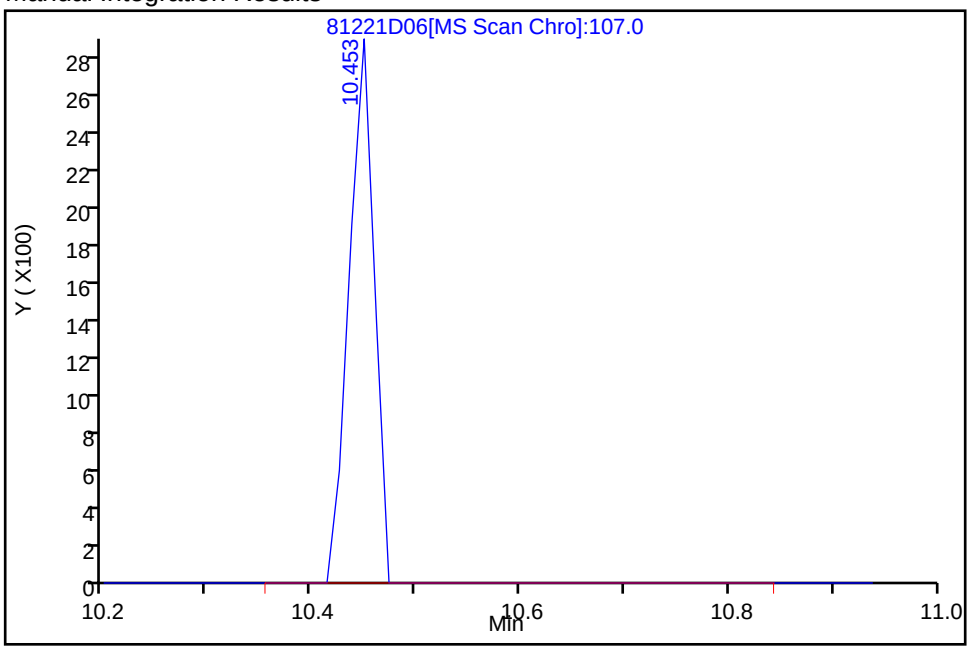
Not Detected
10.453

Processing Integration Results



Manual Integration Results

RT:	10.453
Area:	4658
Amount:	0.84773
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:25:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 22-Dec-2015 08:28:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

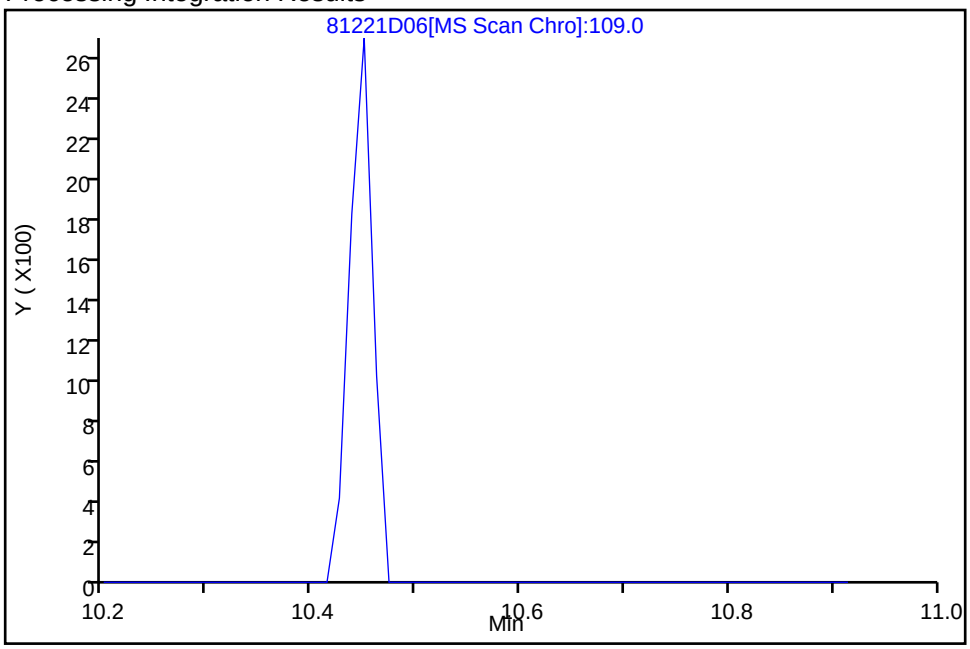
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D06.D		
Injection Date:	21-Dec-2015 14:05:30	Inst. ID:	msd8.i
Client ID:	VSTD001RN	Lab ID:	VSTD001RN
Sample Info:	8122115D.b, VSTD001RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

62 1,2-Dibromoethane, CAS: 106-93-4

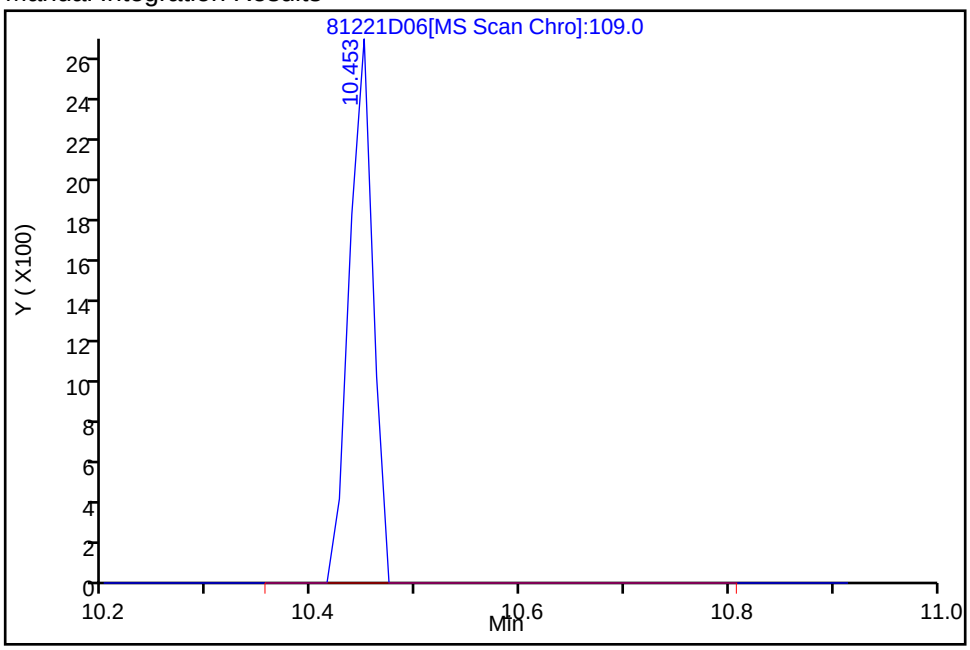
Not Detected
10.453

Processing Integration Results



Manual Integration Results

RT:	10.453
Area:	4202
Amount:	0.84773
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:25:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 22-Dec-2015 08:28:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

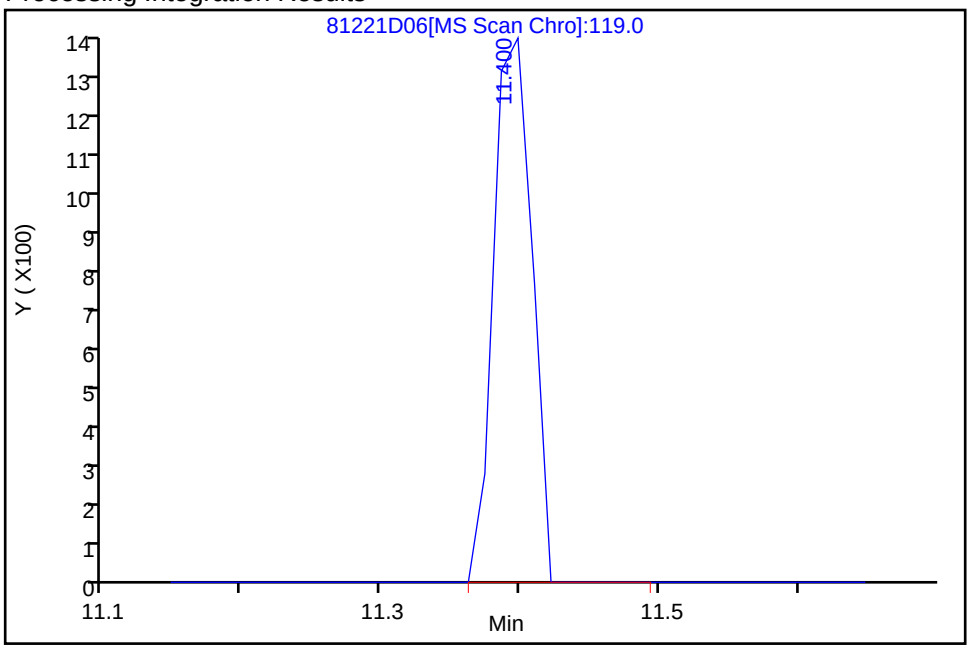
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D06.D		
Injection Date:	21-Dec-2015 14:05:30	Inst. ID:	msd8.i
Client ID:	VSTD001RN	Lab ID:	VSTD001RN
Sample Info:	8122115D.b, VSTD001RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

157 2,3-dibromopropene, CAS: 513-31-5

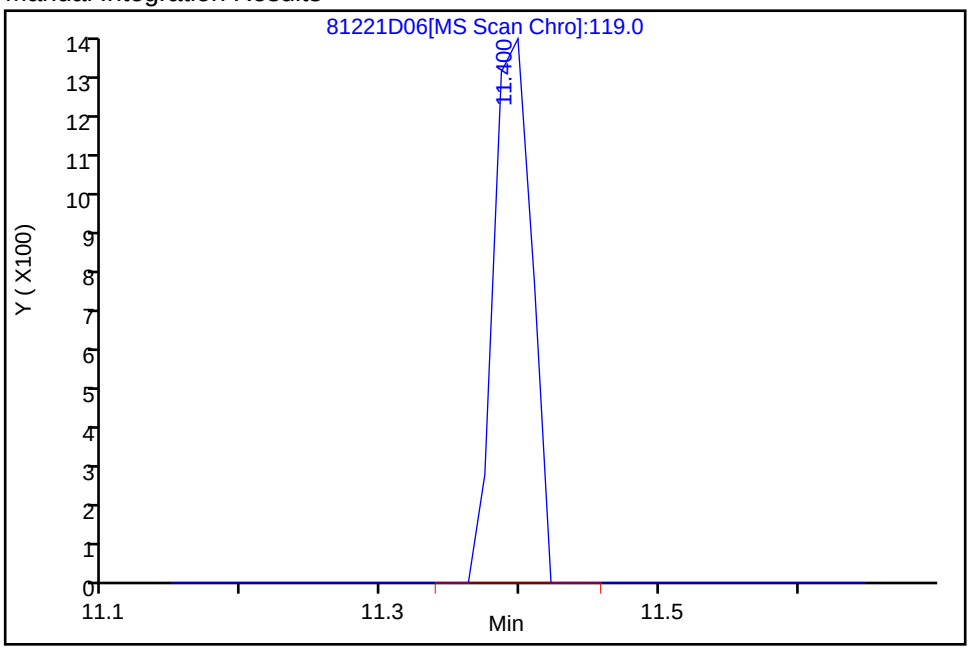
Processing Integration Results

RT: 11.400
Area: 2602
Amount: 0.39806
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 11.400
Area: 2602
Amount: 0.65128
Amount Units: ug/L



Data Editor: all, 21-Dec-2015 14:53:30
Audit Action: Mint
Audit Reason: MSID

Report Date: 22-Dec-2015 08:28:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

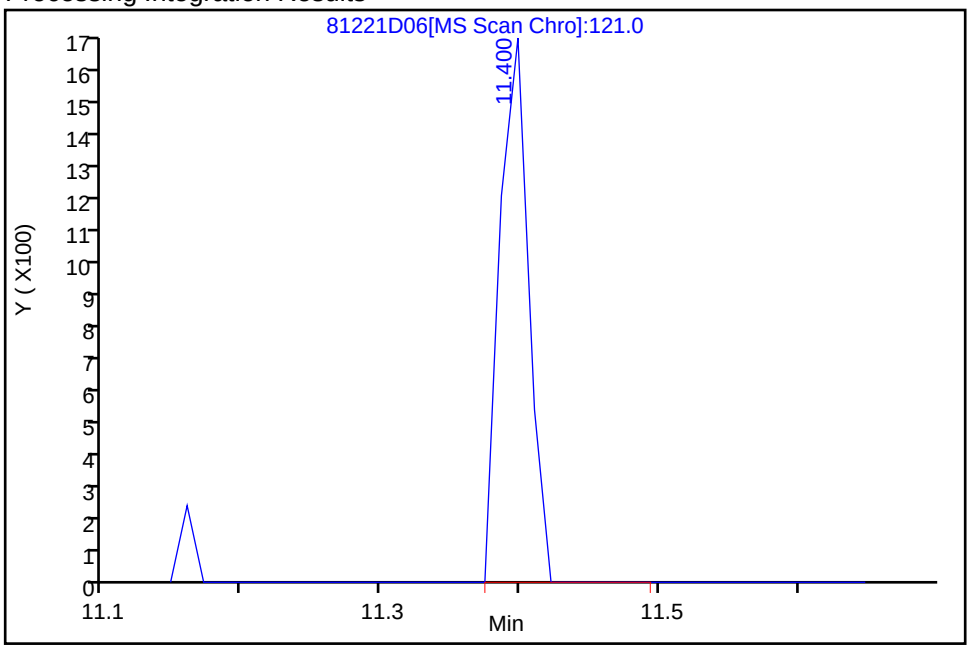
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D06.D		
Injection Date:	21-Dec-2015 14:05:30	Inst. ID:	msd8.i
Client ID:	VSTD001RN	Lab ID:	VSTD001RN
Sample Info:	8122115D.b, VSTD001RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

157 2,3-dibromopropene, CAS: 513-31-5

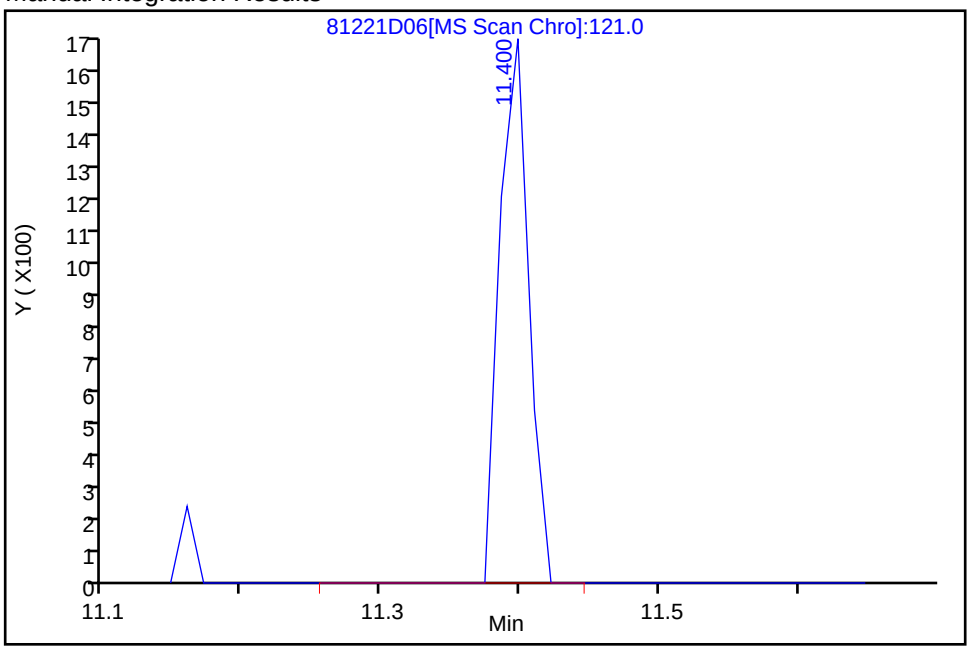
Processing Integration Results

RT: 11.400
Area: 2360
Amount: 0.39806
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 11.400
Area: 2360
Amount: 0.65128
Amount Units: ug/L



Data Editor: all, 21-Dec-2015 14:53:30
Audit Action: Mint
Audit Reason: MSID

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Lab Sample ID:	VSTD0.5RN	Client Sample ID:	VSTD0.5RN
Injection Date:	21-Dec-2015 14:32:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, VSTD0.5RN		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:43:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Ical, Level: 1	ALS Bottle:	7
Cpnd Sublist:	2487.1.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	21-Dec-2015 14:53:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	1.745	1.745	0.000	3320	0.50000	0.28229	
2 Chloromethane	50.0	1.922	1.922	0.000	9182	0.50000	0.42818	
$ 3 Vinyl Chloride-d3	65.0	2.040	2.040	0.000	2882	0.50000	0.38060	M
4 Vinyl Chloride	62.0	2.052	2.052	0.000	4602	0.50000	0.36659	
5 Bromomethane	94.0	2.395	2.395	0.000	2789	0.50000	0.46129	
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	2799	0.50000	0.41562	
7 Chloroethane	64.0	2.502	2.502	0.000	2643	0.50000	0.35710	
155 Vinyl bromide	106.0	2.715	2.715	0.000	3104	0.50000	0.40149	
8 Trichlorofluoromethane	101.0	2.786	2.786	0.000	3816	0.50000	0.25892	
10 2-Chloropropane	43.0	3.224	3.224	0.000	9440	0.50000	0.41385	
$ 12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	10465	0.50000	0.41920	
13 1,1-Dichloroethene	96.0	3.389	3.389	0.000	4844	0.50000	0.45524	M
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.413	3.413	0.000	1752	0.50000	0.32745	
14 Acetone	43.0	3.449	3.449	0.000	4462	5.0000	4.3616	
15 Carbon Disulfide	76.0	3.685	3.685	0.000	13956	0.50000	0.41190	
16 Methyl Acetate	43.0	3.875	3.875	0.000	1914	0.50000	0.41952	M
17 Methylene Chloride	84.0	4.005	4.005	0.000	4818	0.50000	0.44777	
18 1-Chloropropane	42.0	4.052	4.052	0.000	8303	0.50000	0.42751	M
20 Methyl tert-Butyl Ether	73.0	4.372	4.372	0.000	7124	0.50000	0.44204	
21 trans-1,2-Dichloroethene	96.0	4.383	4.383	0.000	5373	0.50000	0.43628	
23 1,1-Dichloroethane	63.0	4.928	4.928	0.000	10056	0.50000	0.39503	
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	9856	5.0000	4.4917	
26 cis-1,2-Dichloroethene	96.0	5.697	5.697	0.000	5543	0.50000	0.42737	
28 2-Butanone	43.0	5.709	5.709	0.000	8182	5.0000	4.4408	
29 Bromochloromethane	128.0	6.004	6.004	0.000	1635	0.50000	0.38018	
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	10063	0.50000	0.45419	
31 Chloroform	83.0	6.111	6.111	0.000	14359	0.50000	0.56009	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 1,1,1-Trichloroethane	97.0	6.371	6.371	0.000	7931	0.50000	0.41228	
35 1,1-Dichloropropene	75.0	6.584	6.584	0.000	6872	0.50000	0.41711	
32 Cyclohexane	56.0	6.442	6.442	0.000	14956	0.50000	0.52785	M
34 Carbon Tetrachloride	117.0	6.596	6.596	0.000	7118	0.50000	0.41895	
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	4122	0.50000	0.43737	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	20337	0.50000	0.42670	
37 Benzene	78.0	6.856	6.856	0.000	19887	0.50000	0.40320	
39 1,2-Dichloroethane	62.0	6.880	6.880	0.000	5205	0.50000	0.40068	M
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	265214	5.0000	5.0000	
42 Trichloroethene	95.0	7.720	7.720	0.000	5227	0.50000	0.37119	
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	5995	0.50000	0.45217	
43 Methylcyclohexane	83.0	7.981	7.981	0.000	7505	0.50000	0.37280	
45 1,2-Dichloropropane	63.0	8.016	8.016	0.000	5697	0.50000	0.40317	M
156 2,3-dichloropropene	75.0	8.075	8.075	0.000	6830	0.50000	0.42148	
49 Bromodichloromethane	83.0	8.383	8.383	0.000	5265	0.50000	0.37515	
50 cis-1,3-Dichloropropene	75.0	8.986	8.986	0.000	6207	0.50000	0.39851	
51 4-Methyl-2-pentanone	43.0	9.199	9.199	0.000	21189	5.0000	4.3721	
$ 52 Toluene-d8	98.0	9.341	9.341	0.000	19262	0.50000	0.43298	
53 Toluene	91.0	9.436	9.436	0.000	20658	0.50000	0.39548	
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	4137	0.50000	0.42837	
55 trans-1,3-Dichloropropene	75.0	9.684	9.684	0.000	4095	0.50000	0.37829	
56 1,1,2-Trichloroethane	97.0	9.897	9.897	0.000	2657	0.50000	0.45667	
57 Tetrachloroethene	164.0	10.075	10.075	0.000	4692	0.50000	0.41829	
59 1,3-Dichloropropane	76.0	10.087	10.087	0.000	4523	0.50000	0.43308	
154 2-Bromo-1-chloropropane	77.0	9.803	9.803	0.000	4595	0.50000	0.41240	
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	5742	5.0000	4.1796	
60 2-Hexanone	43.0	10.170	10.170	0.000	13236	5.0000	4.1353	
61 Dibromochloromethane	129.0	10.323	10.323	0.000	2771	0.50000	0.37139	
62 1,2-Dibromoethane	107.0	10.454	10.454	0.000	2296	0.50000	0.41498	M
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	218091	5.0000	5.0000	
64 Chlorobenzene	112.0	10.939	10.939	0.000	13006	0.50000	0.39682	
65 Ethylbenzene	91.0	11.045	11.045	0.000	21947	0.50000	0.38000	
67 m+p-Xylenes	106.0	11.152	11.152	0.000	8660	0.50000	0.36901	
68 o-Xylene	106.0	11.507	11.507	0.000	8370	0.50000	0.37968	
69 Styrene	104.0	11.519	11.519	0.000	11759	0.50000	0.38287	
70 Bromoform	173.0	11.684	11.684	0.000	1215	0.50000	0.33287	M
71 Isopropylbenzene	105.0	11.826	11.826	0.000	21293	0.50000	0.38083	
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.039	12.039	0.000	2313	0.50000	0.45136	
74 1,1,2,2-Tetrachloroethane	83.0	12.075	12.075	0.000	2119	0.50000	0.39700	
76 1,2,3-Trichloropropane	75.0	12.110	12.110	0.000	2670	0.50000	0.40088	M
157 2,3-dibromopropene	119.0	11.400	11.400	0.000	1116	0.50000	0.36004	
83 1,3-Dichlorobenzene	146.0	12.820	12.820	0.000	10457	0.50000	0.40796	
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	100559	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0	12.891	12.891	0.000	10161	0.50000	0.41560	
$ 87 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	5101	0.50000	0.43273	
89 1,2-Dichlorobenzene	146.0	13.175	13.175	0.000	8146	0.50000	0.40148	
90 1,2-Dibromo-3-chloropropane	75.0	13.719	13.719	0.000	206	0.50000	0.28343	M
91 1,2,4-Trichlorobenzene	180.0	14.299	14.299	0.000	6215	0.50000	0.42142	
94 1,2,3-Trichlorobenzene	180.0	14.666	14.666	0.000	4476	0.50000	0.39815	

QC Flag Legend

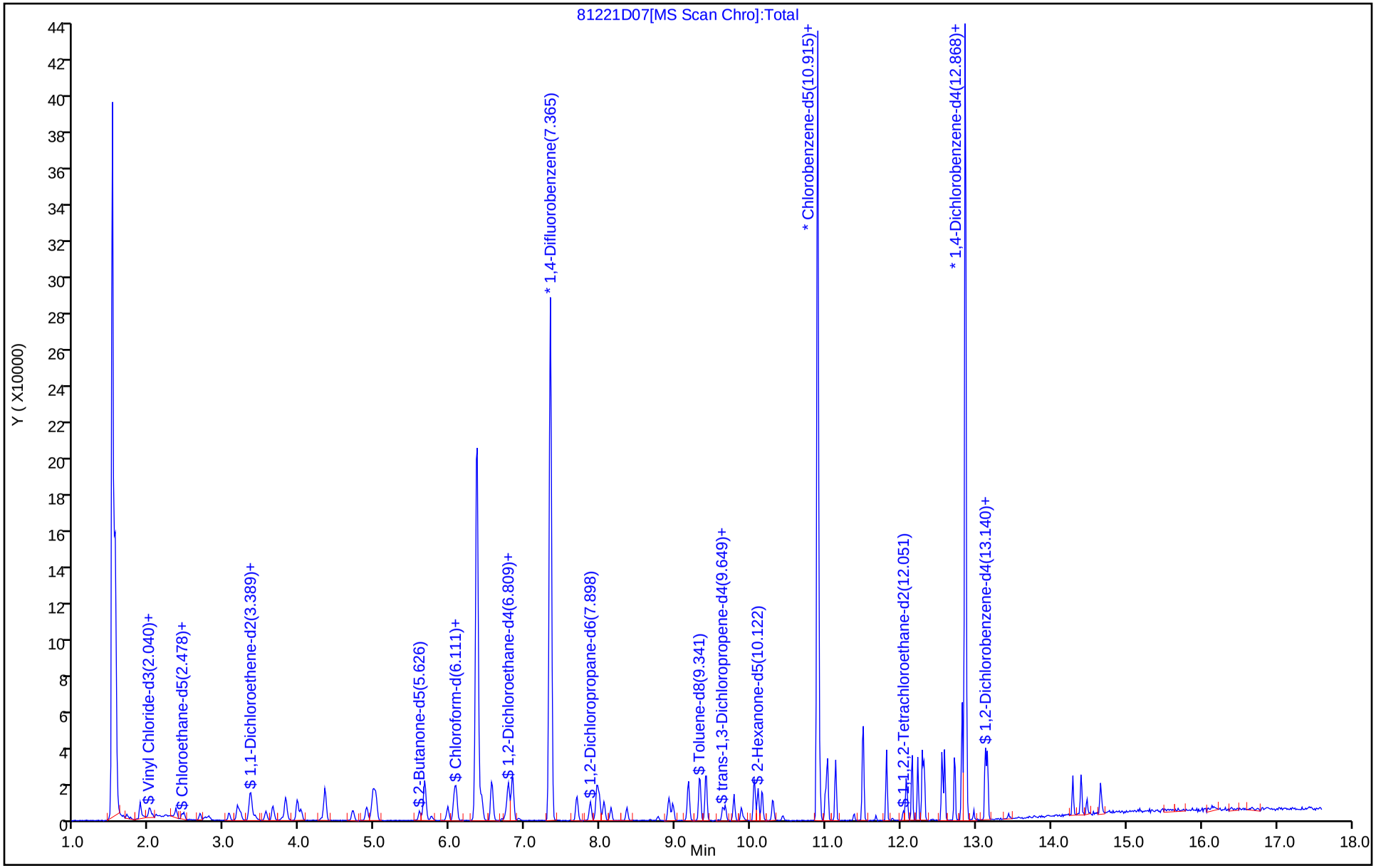
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D				
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN		
Sample Info:	8122115D.b, VSTD0.5RN				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

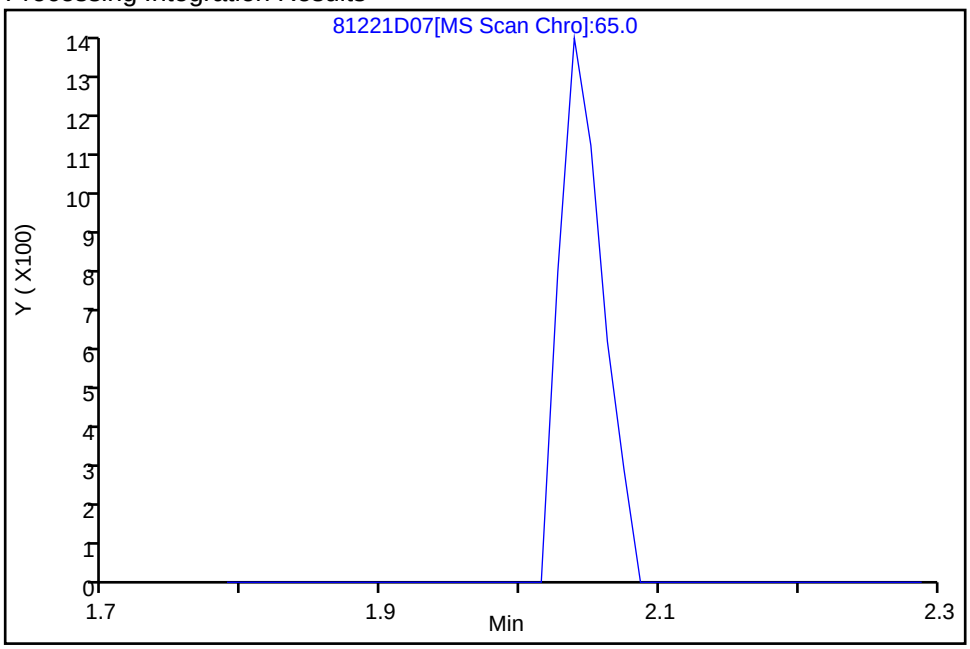
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 3 Vinyl Chloride-d3, CAS: 6745-35-3

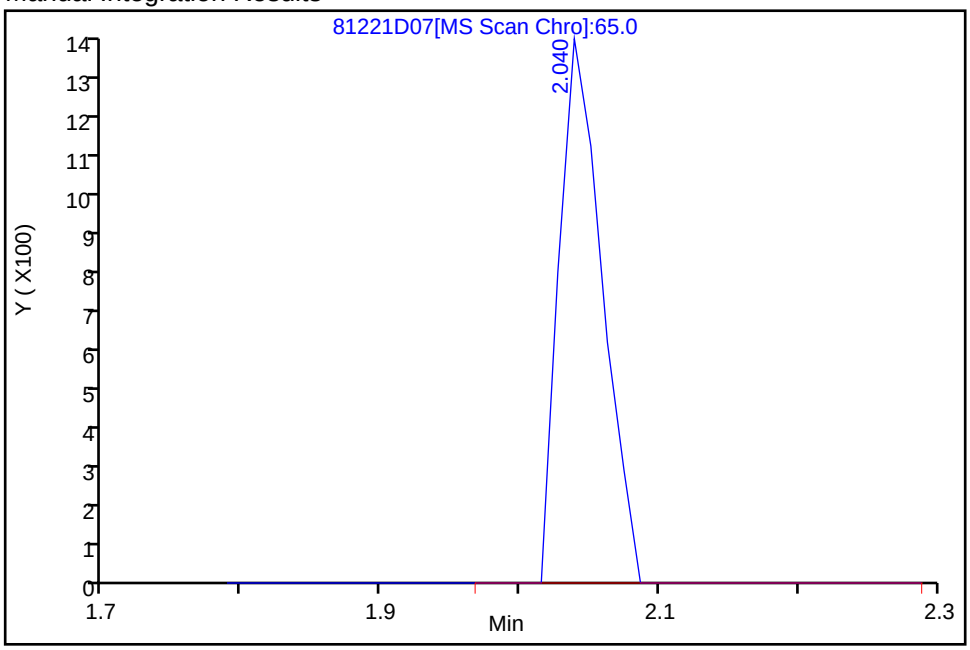
Processing Integration Results

Not Detected
2.040



Manual Integration Results

RT:	2.040
Area:	2882
Amount:	0.38060
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

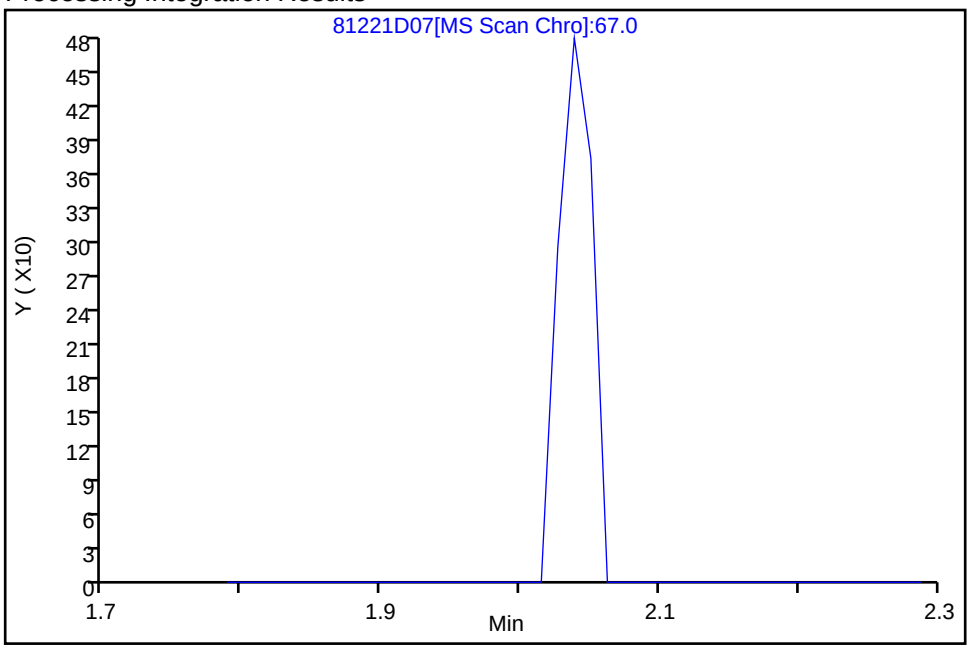
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 3 Vinyl Chloride-d3, CAS: 6745-35-3

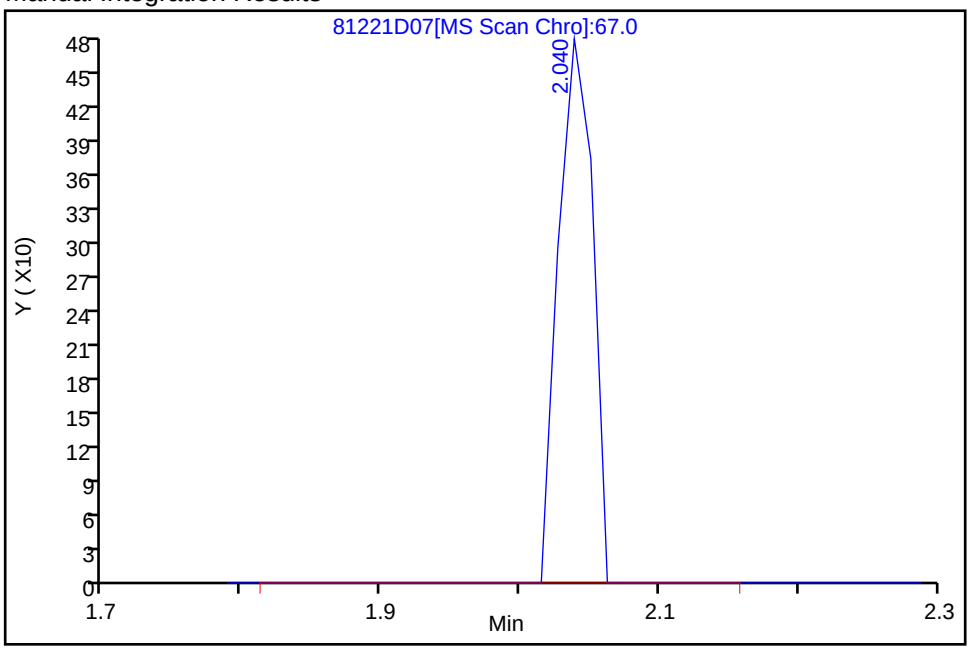
Processing Integration Results

Not Detected
2.040



Manual Integration Results

RT:	2.040
Area:	800
Amount:	0.38060
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

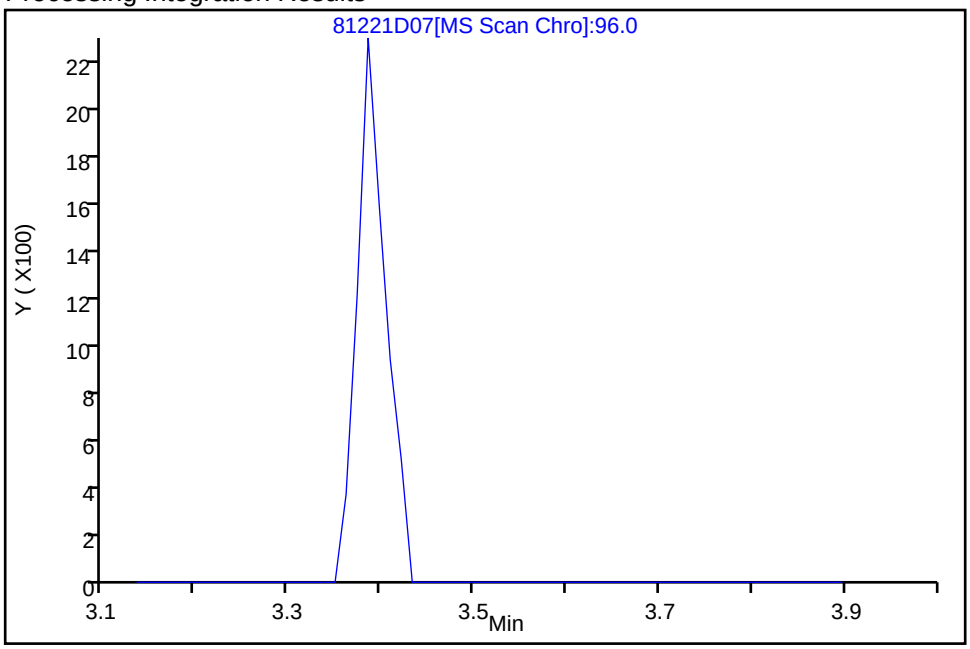
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

13 1,1-Dichloroethene, CAS: 75-35-4

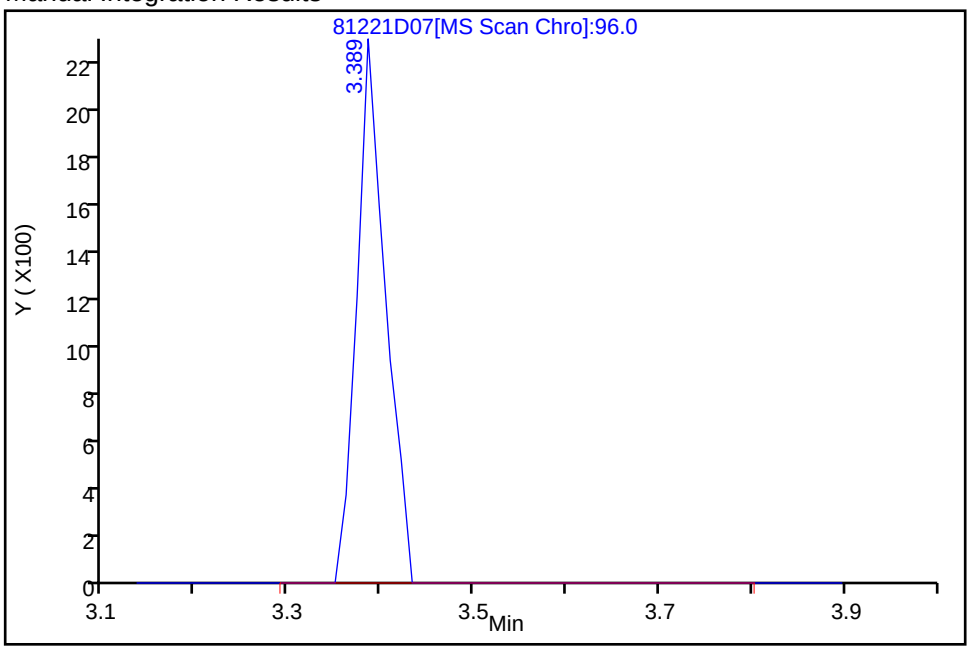
Not Detected
3.389

Processing Integration Results



Manual Integration Results

RT:	3.389
Area:	4844
Amount:	0.45524
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
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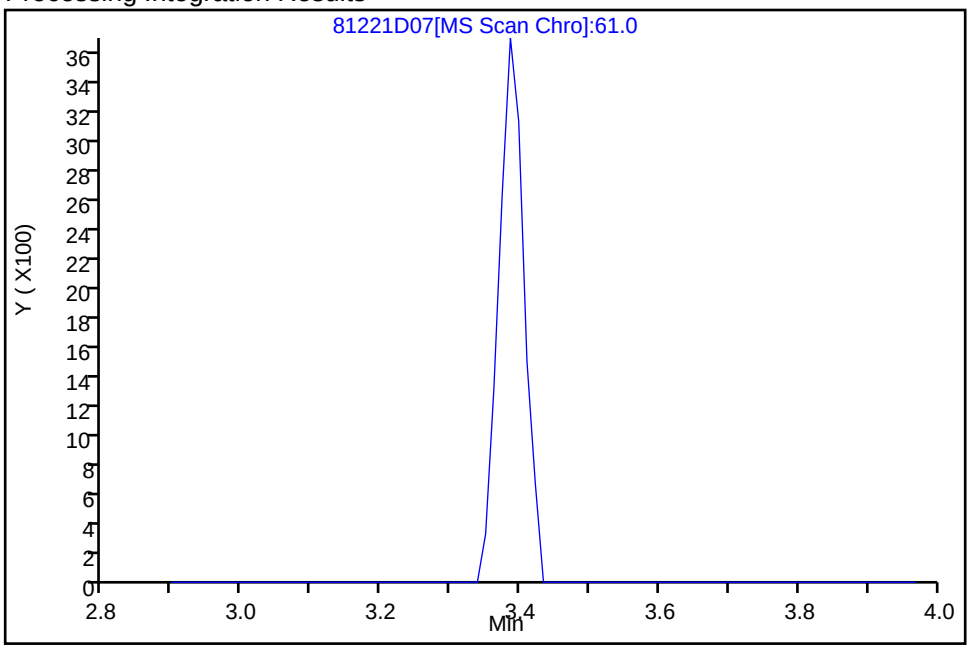
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

13 1,1-Dichloroethene, CAS: 75-35-4

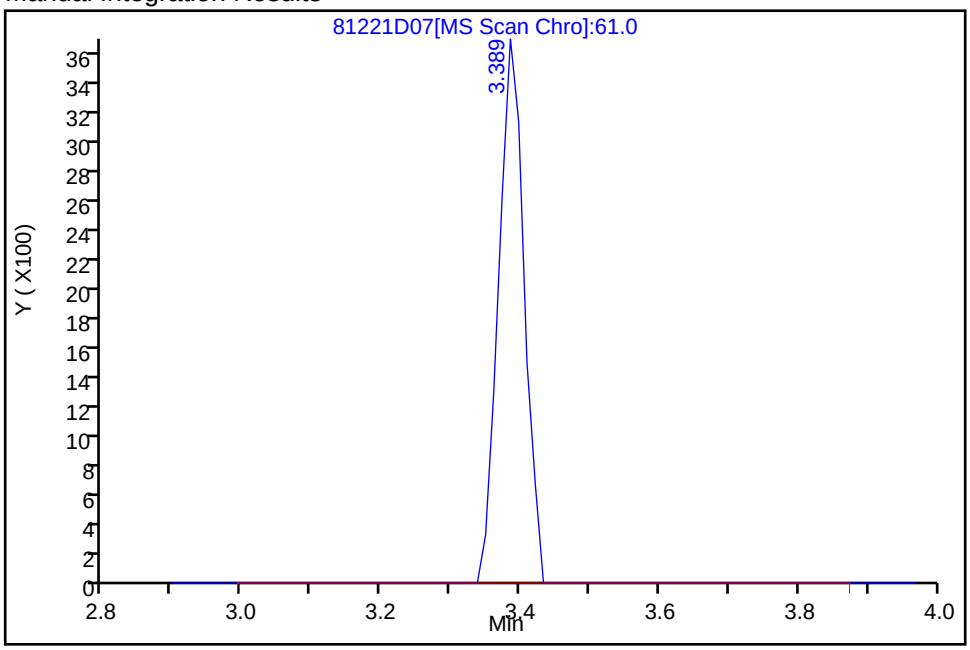
Not Detected
3.389

Processing Integration Results



Manual Integration Results

RT:	3.389
Area:	9352
Amount:	0.45524
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

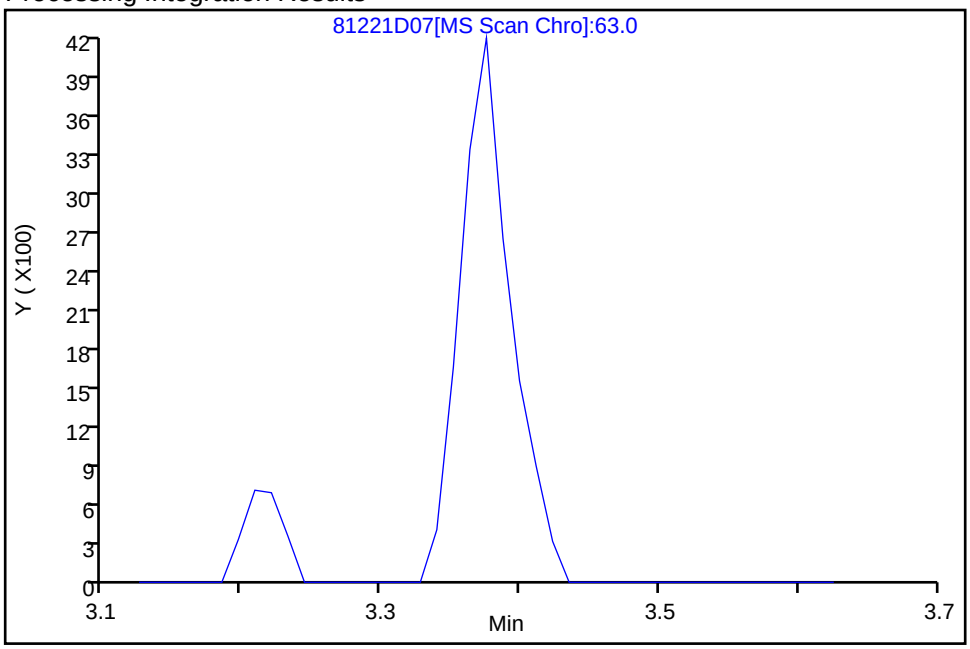
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

13 1,1-Dichloroethene, CAS: 75-35-4

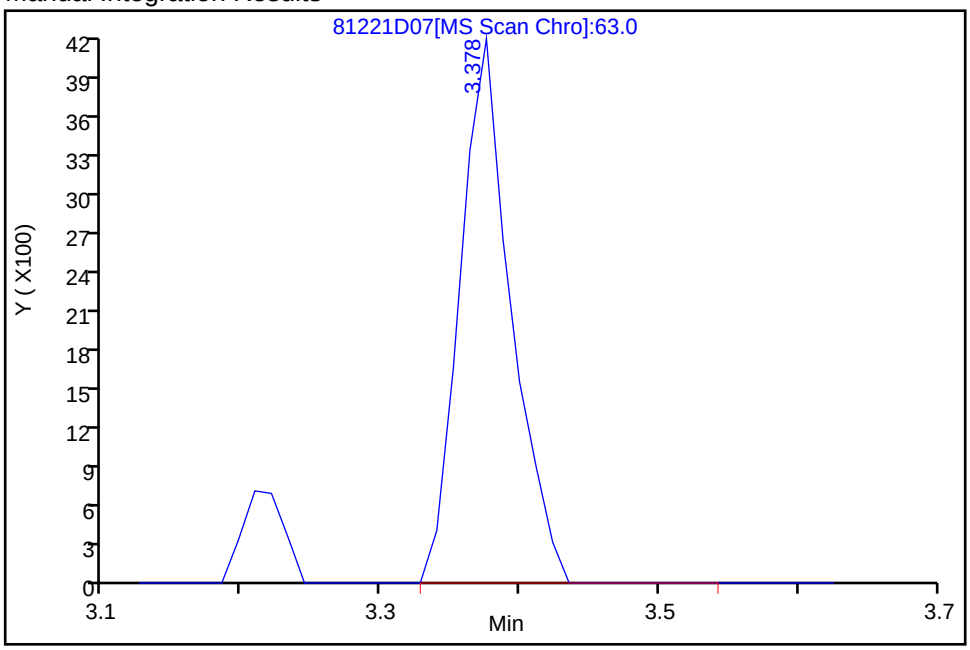
Not Detected
3.378

Processing Integration Results



Manual Integration Results

RT:	3.378
Area:	10465
Amount:	0.45524
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

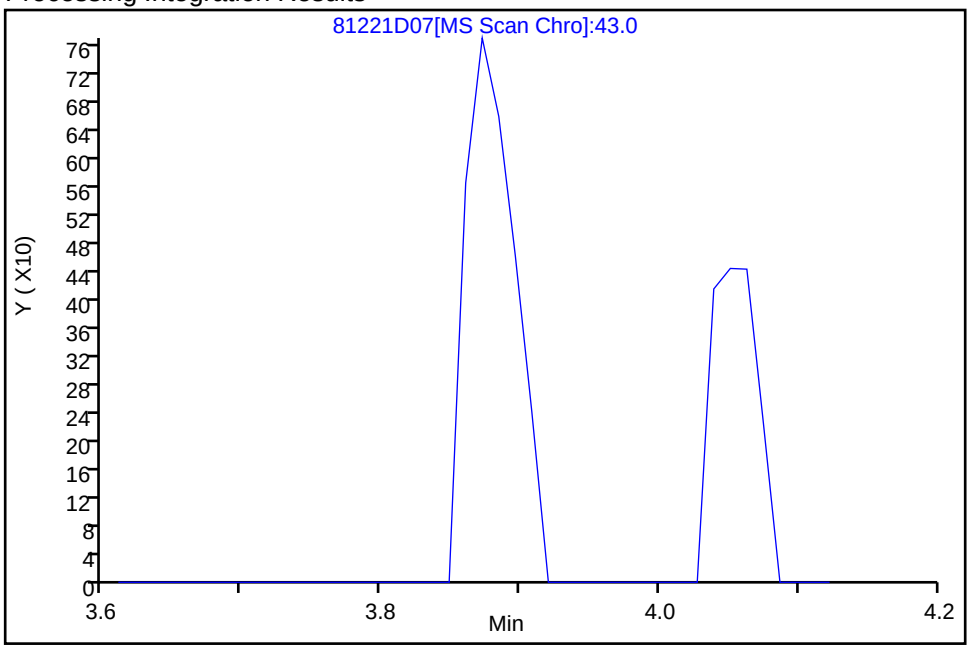
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

16 Methyl Acetate, CAS: 79-20-9

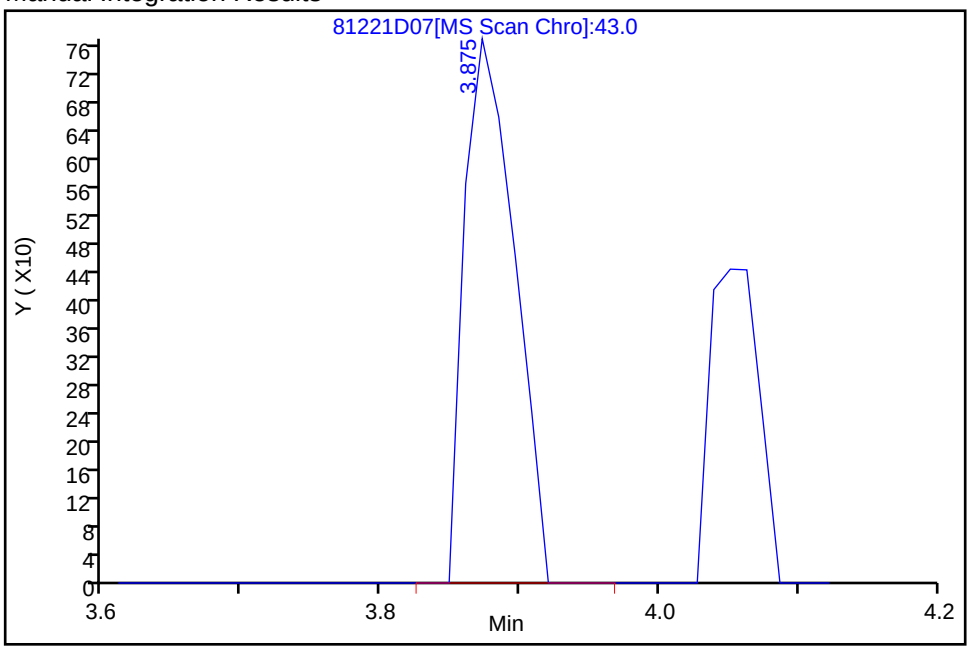
Not Detected
3.875

Processing Integration Results



Manual Integration Results

RT:	3.875
Area:	1914
Amount:	0.41952
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

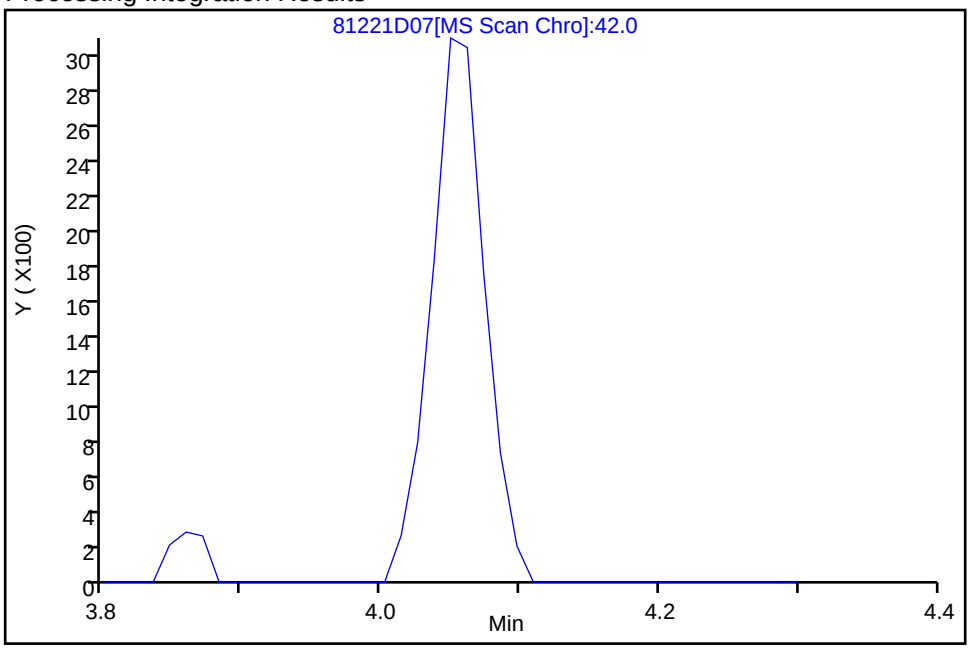
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

18 1-Chloropropane, CAS: 540-54-5

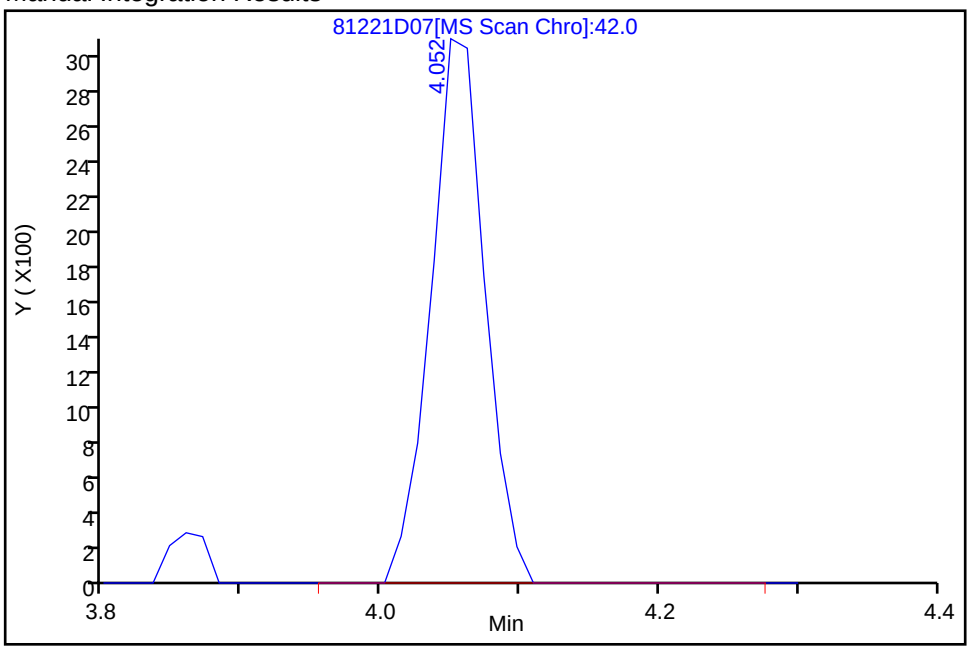
Not Detected
4.052

Processing Integration Results



Manual Integration Results

RT: 4.052
Area: 8303
Amount: 0.42751
Amount Units: ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

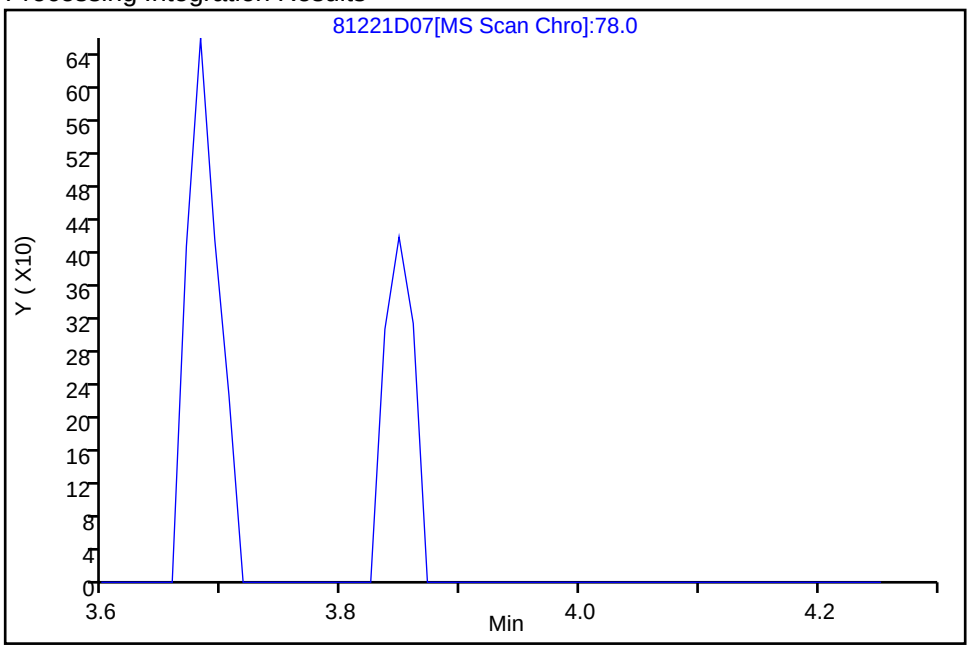
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

18 1-Chloropropane, CAS: 540-54-5

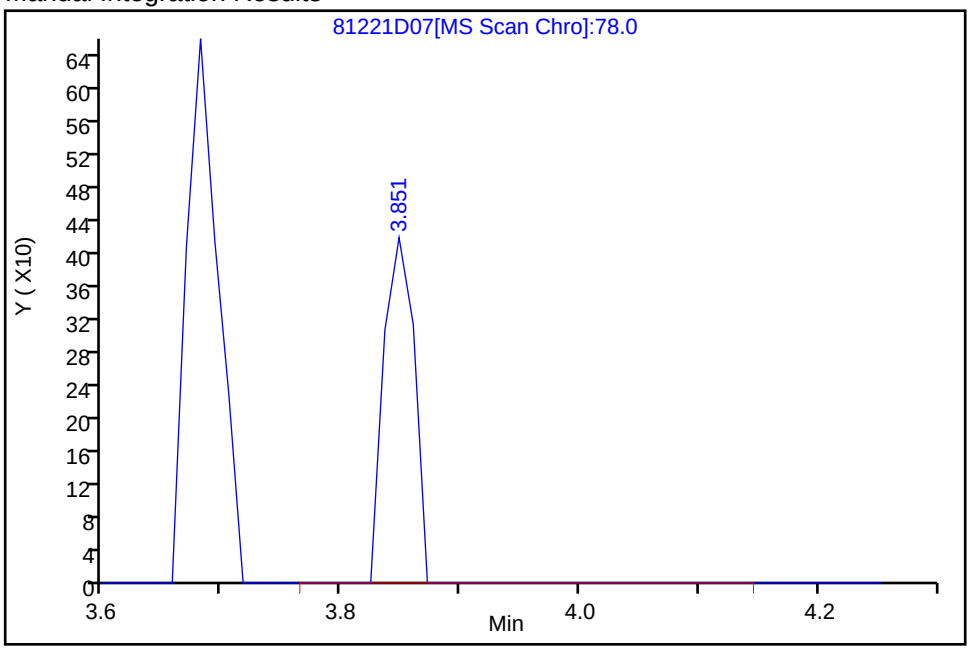
Not Detected
3.851

Processing Integration Results



Manual Integration Results

RT:	3.851
Area:	731
Amount:	0.42751
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

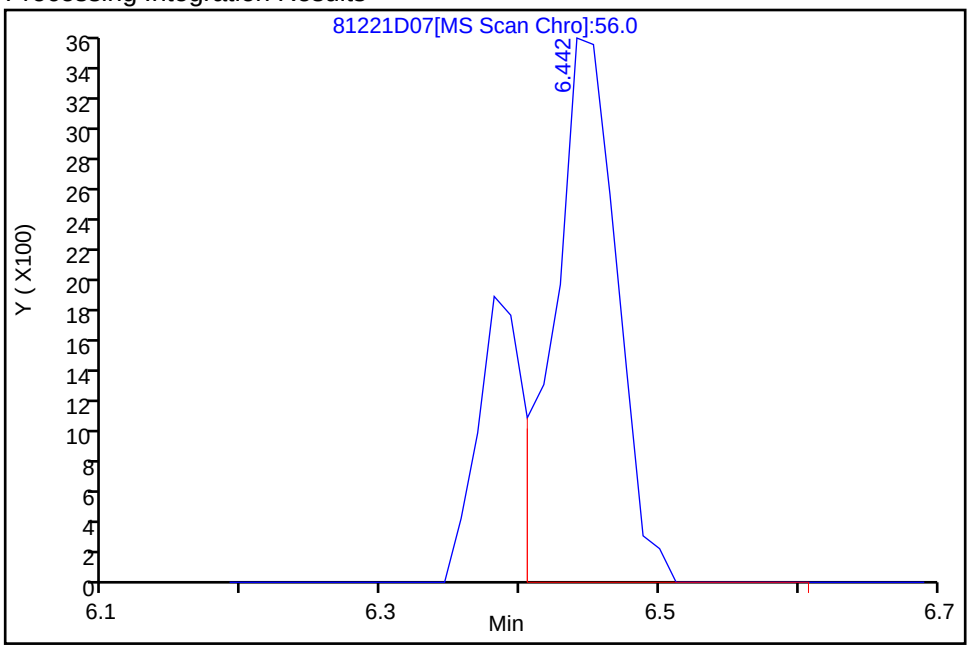
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

32 Cyclohexane, CAS: 110-82-7

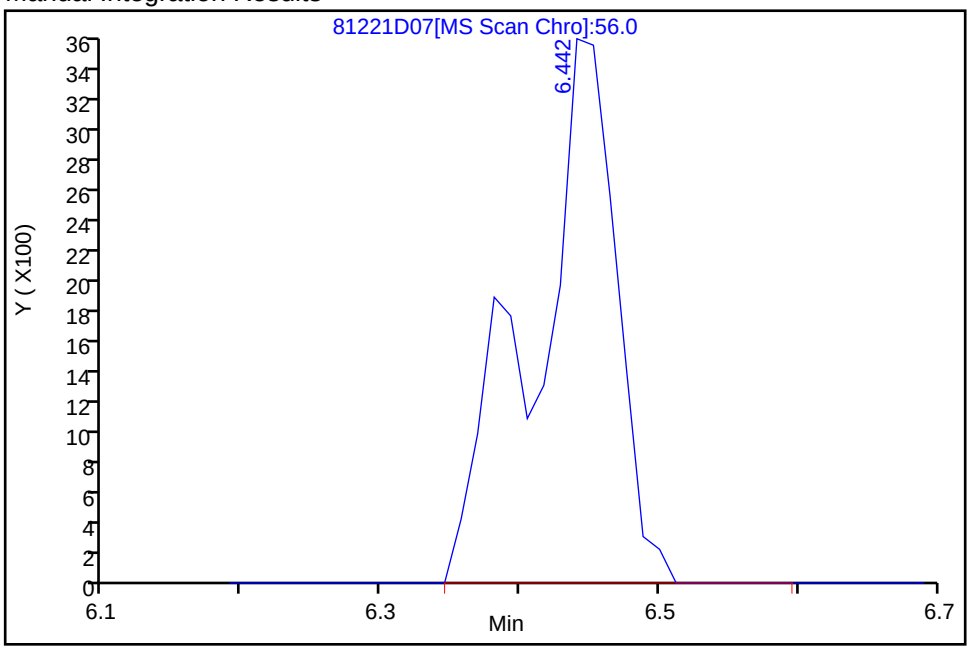
Processing Integration Results

RT: 6.442
Area: 10977
Amount: 0.39289
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 6.442
Area: 14956
Amount: 0.52785
Amount Units: ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

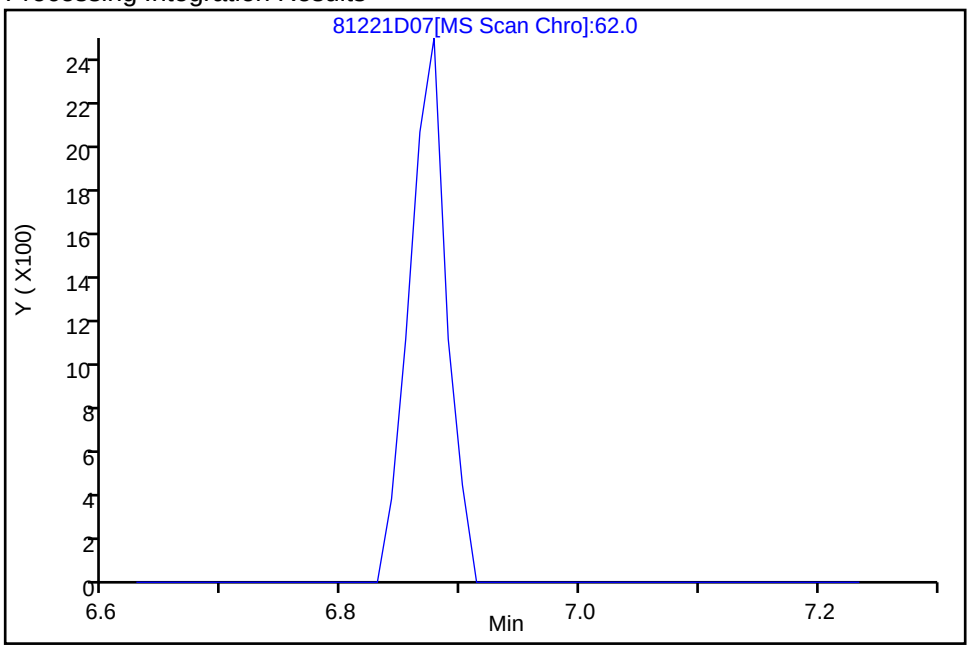
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

39 1,2-Dichloroethane, CAS: 107-06-2

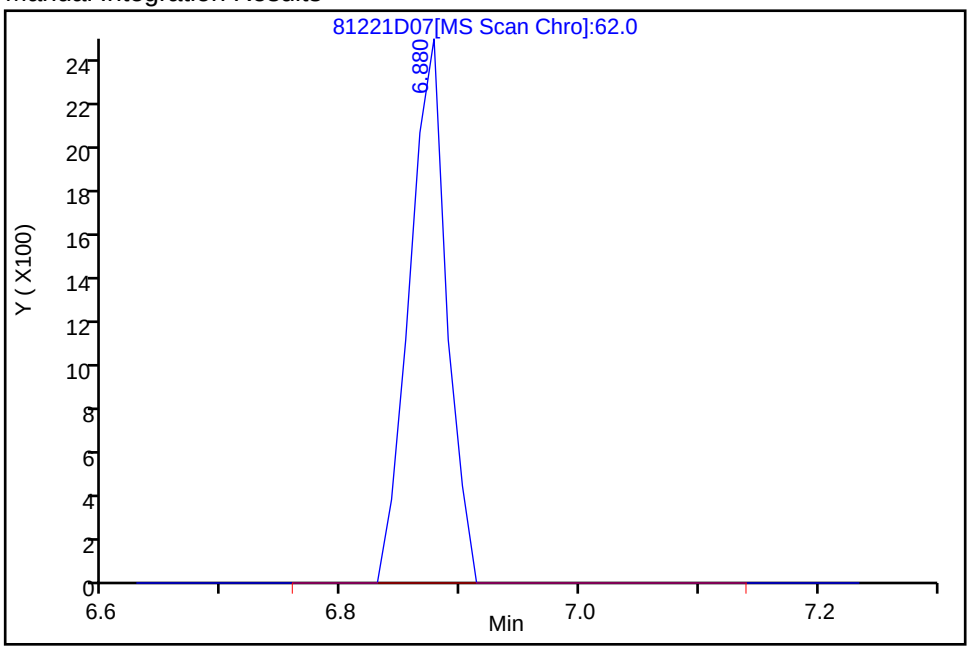
Not Detected
6.880

Processing Integration Results



Manual Integration Results

RT: 6.880
Area: 5205
Amount: 0.40068
Amount Units: ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

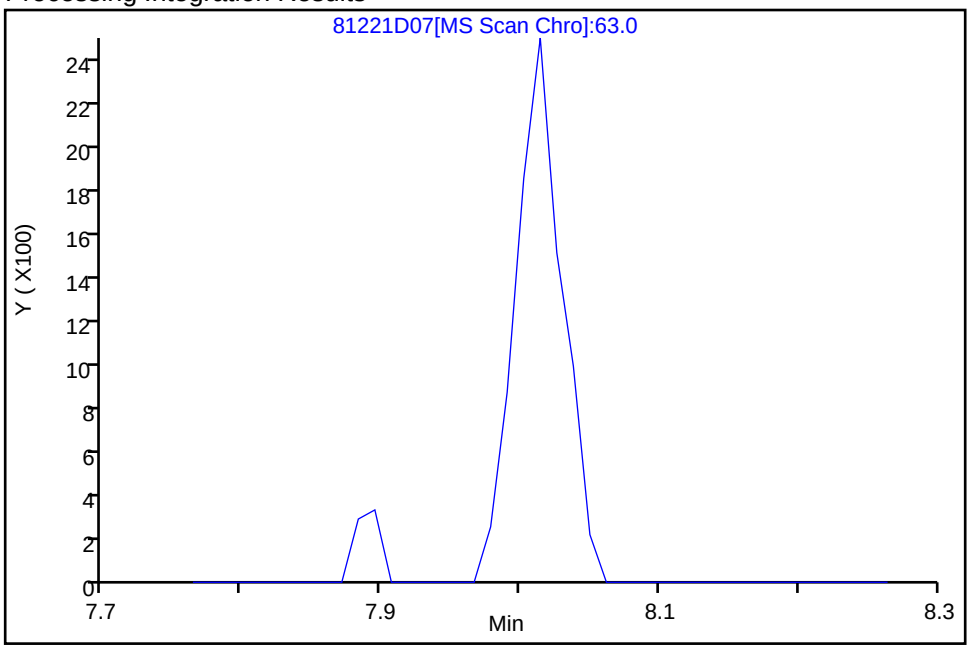
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

45 1,2-Dichloropropane, CAS: 78-87-5

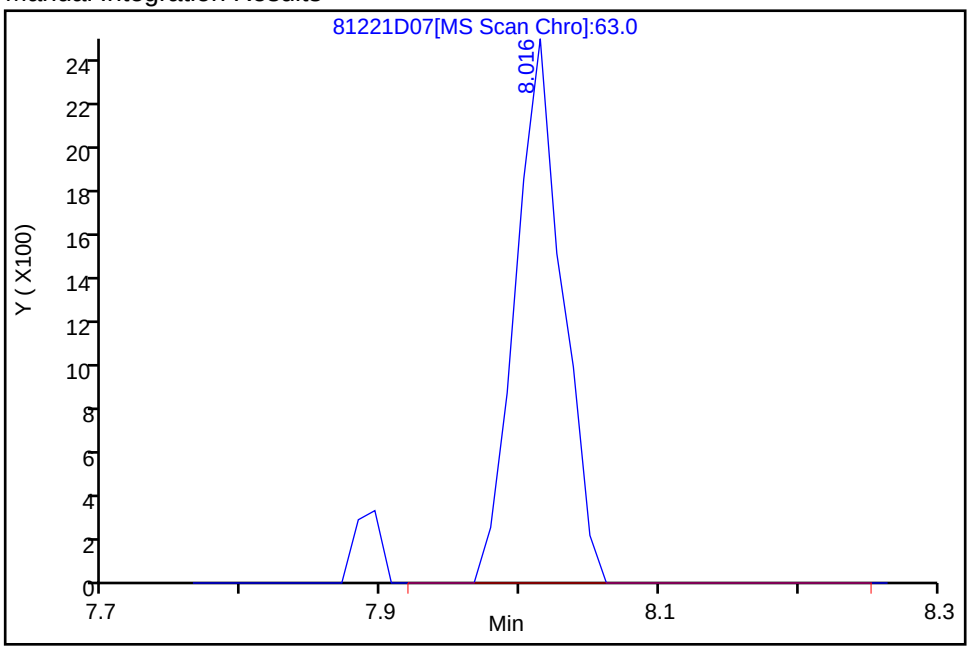
Not Detected
8.016

Processing Integration Results



Manual Integration Results

RT:	8.016
Area:	5697
Amount:	0.40317
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
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Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
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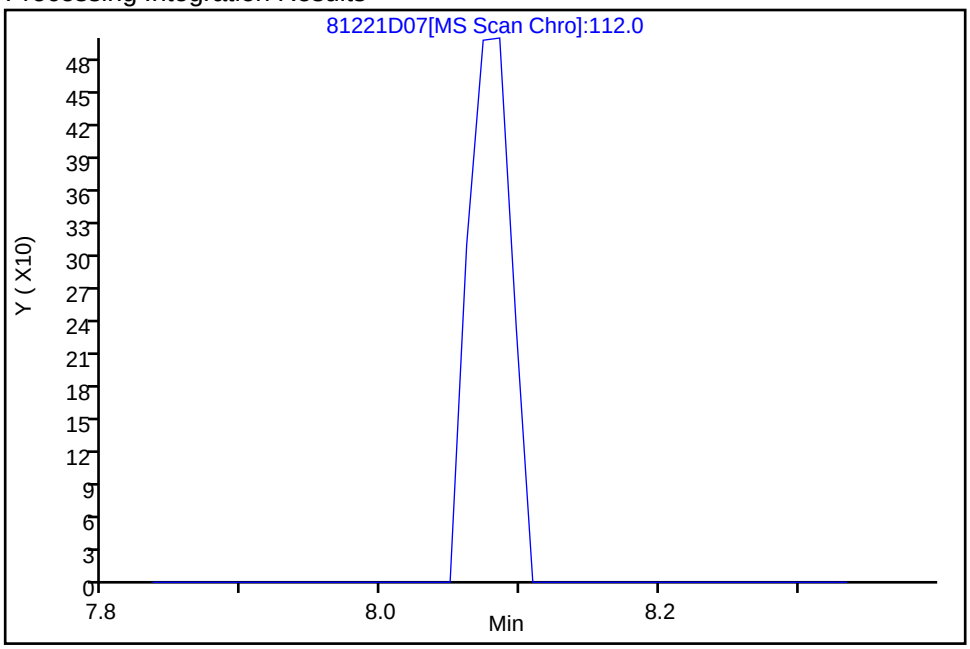
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

45 1,2-Dichloropropane, CAS: 78-87-5

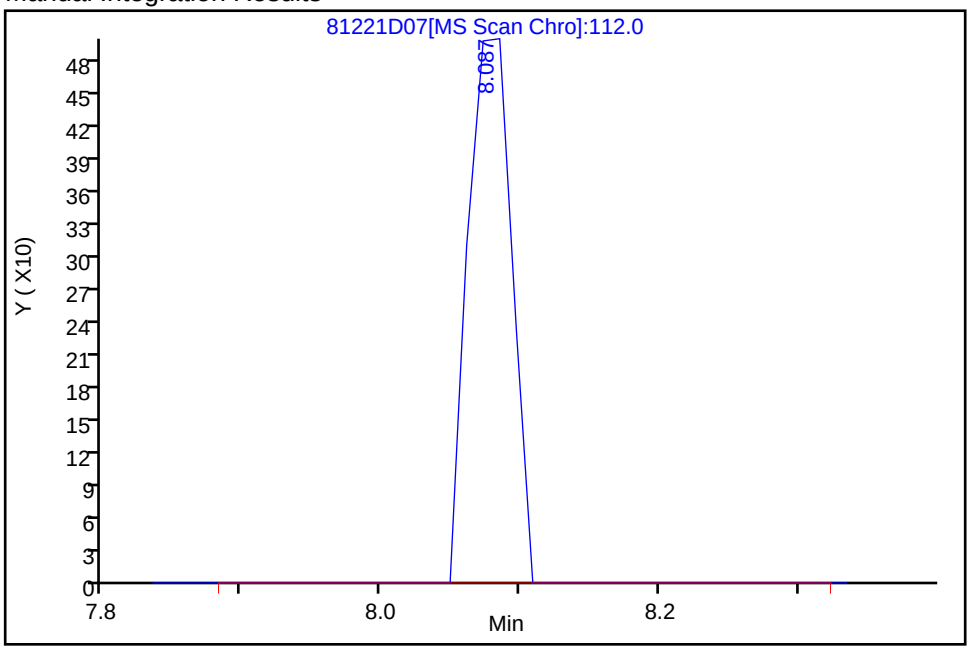
Not Detected
8.087

Processing Integration Results



Manual Integration Results

RT:	8.087
Area:	1081
Amount:	0.40317
Amount Units:	ug/L



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Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

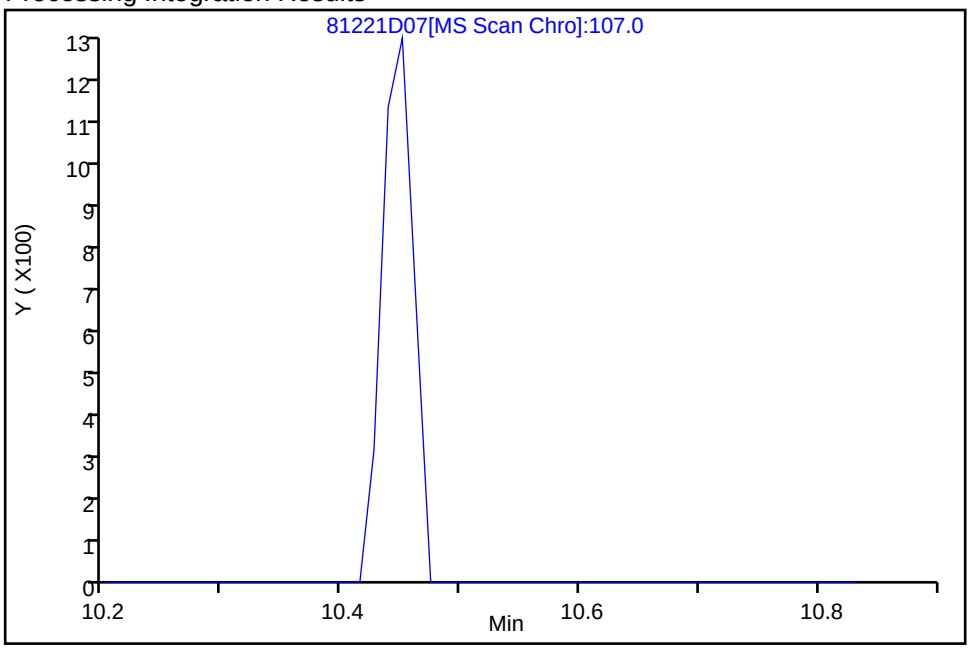
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

62 1,2-Dibromoethane, CAS: 106-93-4

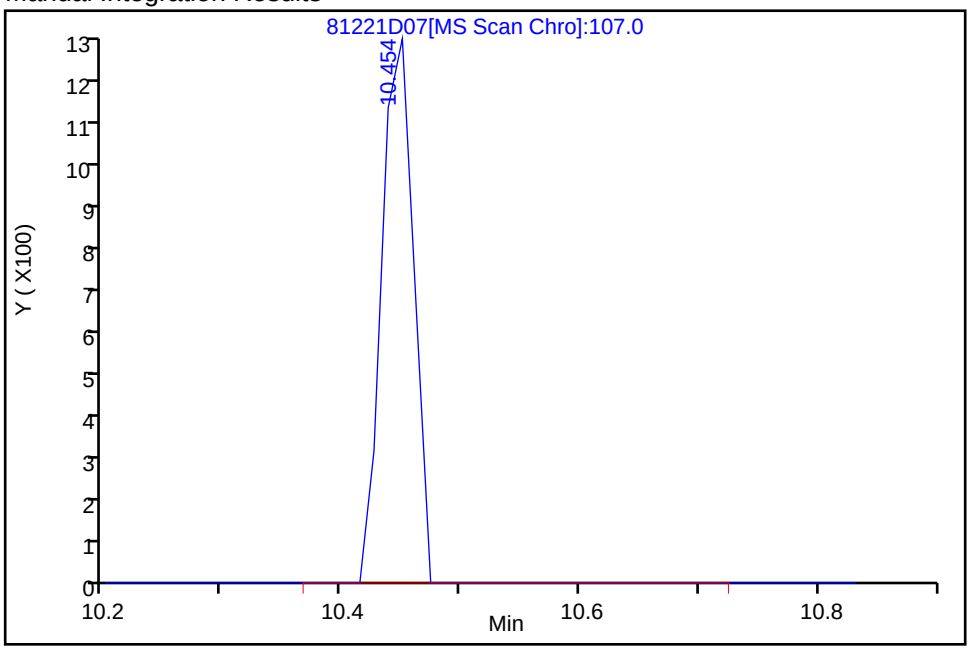
Not Detected
10.454

Processing Integration Results



Manual Integration Results

RT:	10.454
Area:	2296
Amount:	0.41498
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

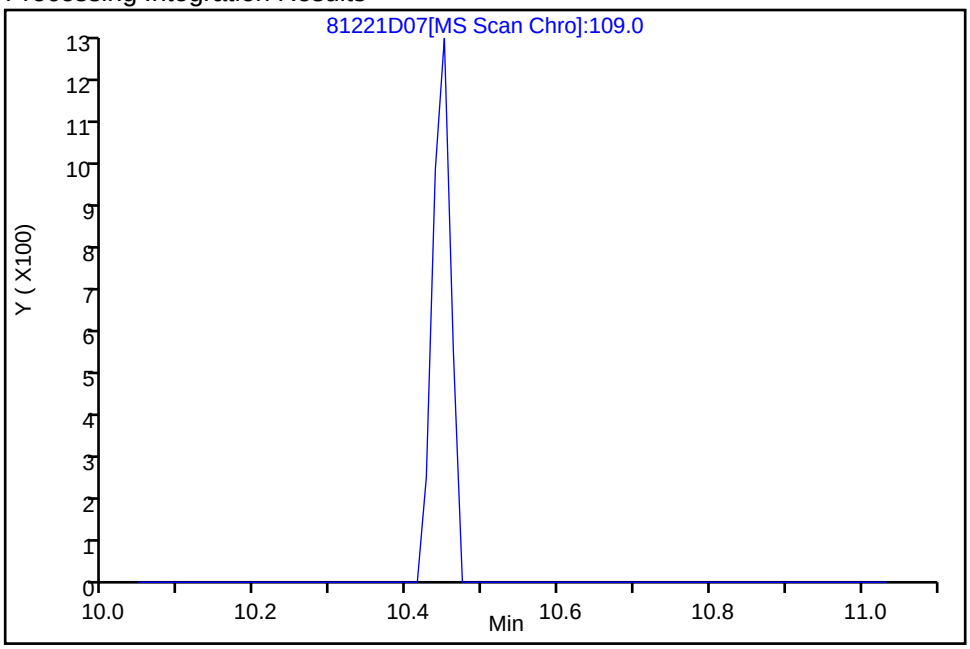
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

62 1,2-Dibromoethane, CAS: 106-93-4

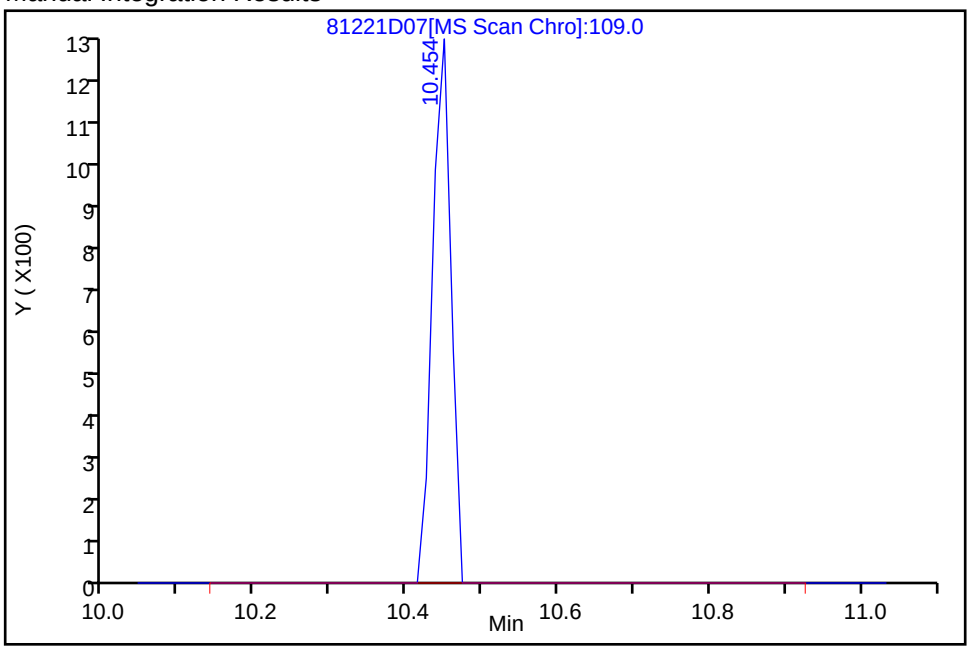
Not Detected
10.454

Processing Integration Results



Manual Integration Results

RT:	10.454
Area:	2097
Amount:	0.41498
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
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Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

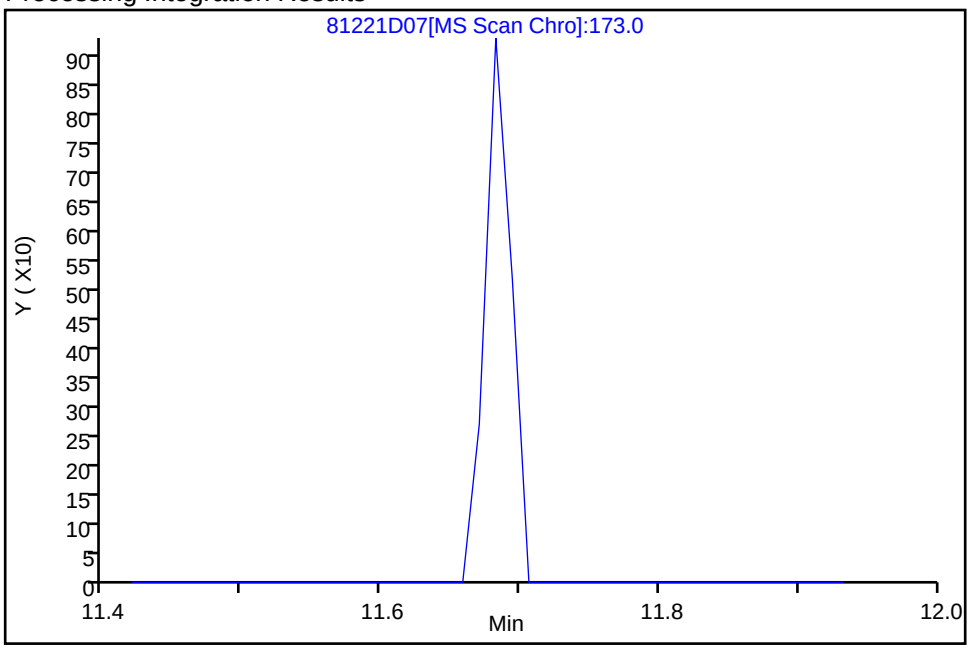
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

70 Bromoform, CAS: 75-25-2

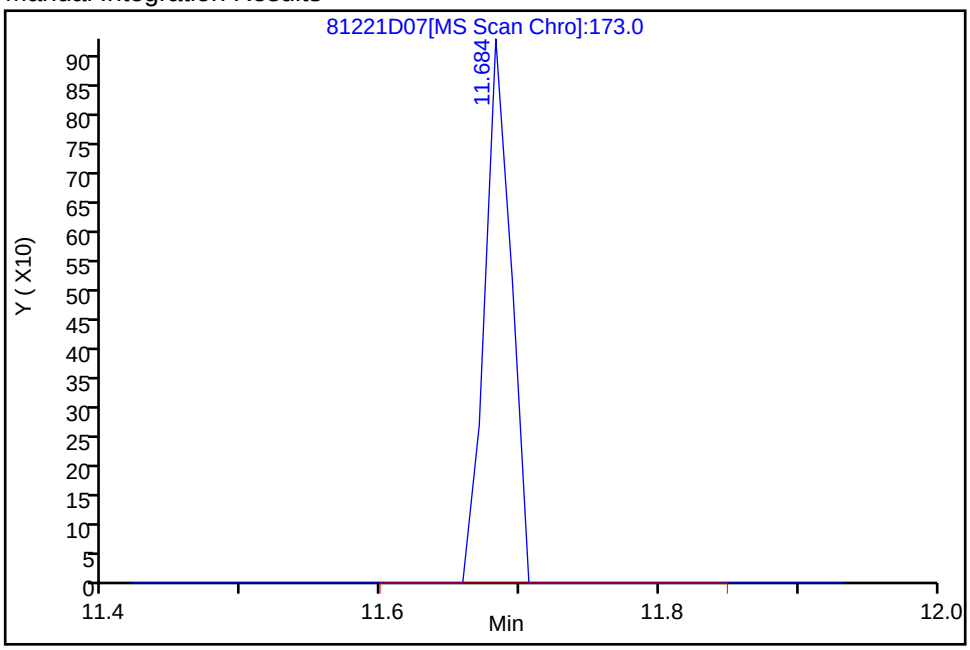
Not Detected
11.684

Processing Integration Results



Manual Integration Results

RT:	11.684
Area:	1215
Amount:	0.33287
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

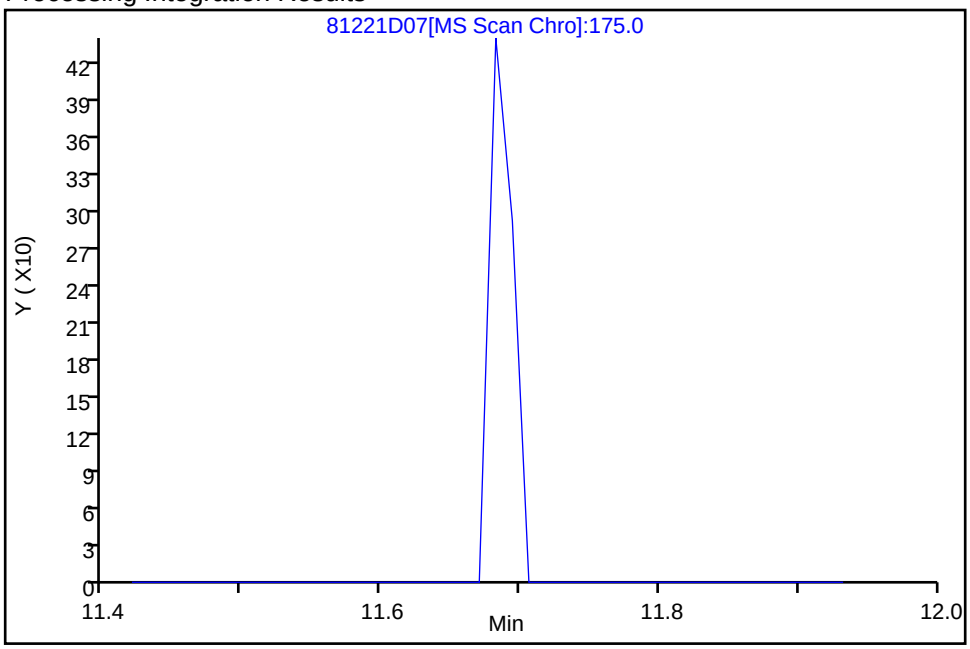
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

70 Bromoform, CAS: 75-25-2

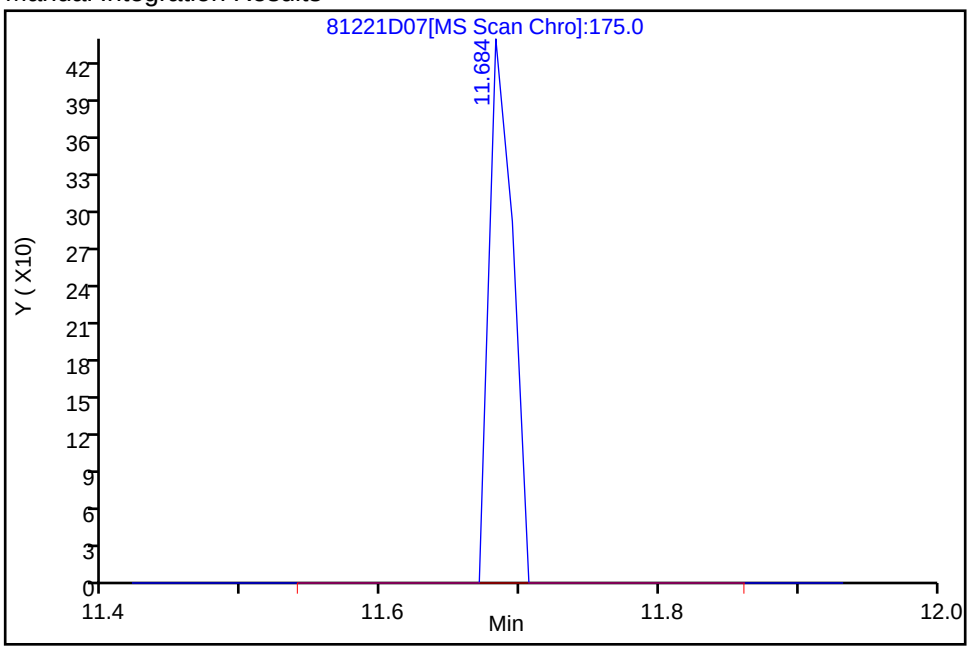
Not Detected
11.684

Processing Integration Results



Manual Integration Results

RT:	11.684
Area:	517
Amount:	0.33287
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

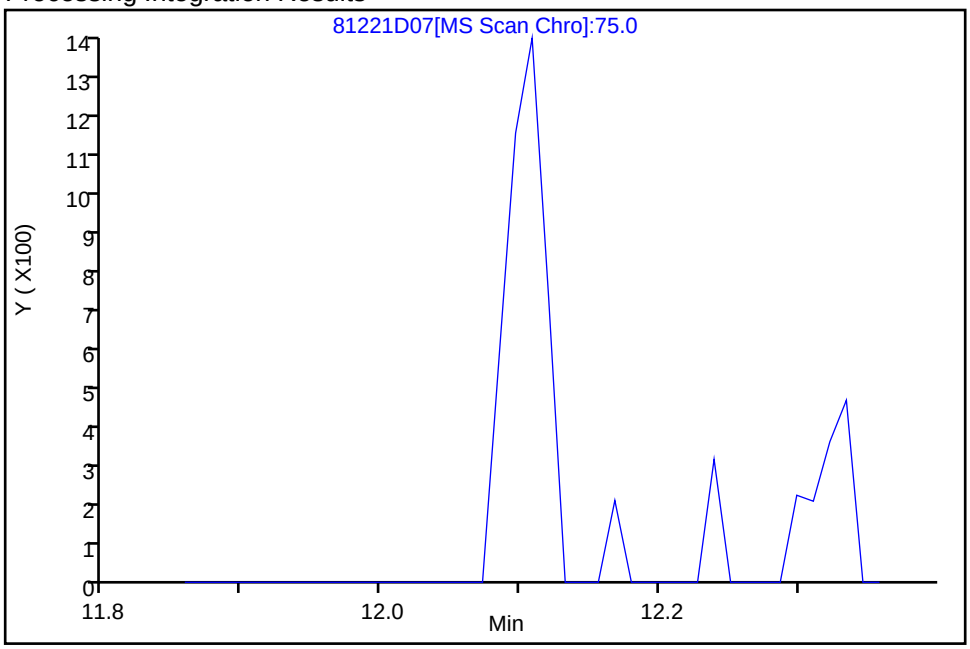
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

76 1,2,3-Trichloropropane, CAS: 96-18-4

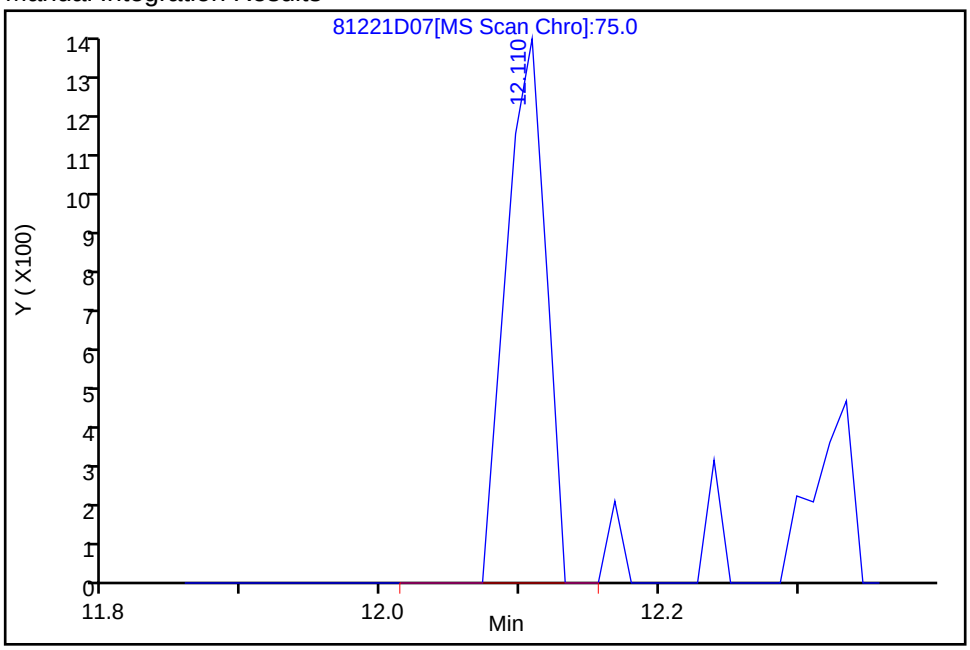
Not Detected
12.110

Processing Integration Results



Manual Integration Results

RT:	12.110
Area:	2670
Amount:	0.40088
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:53:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

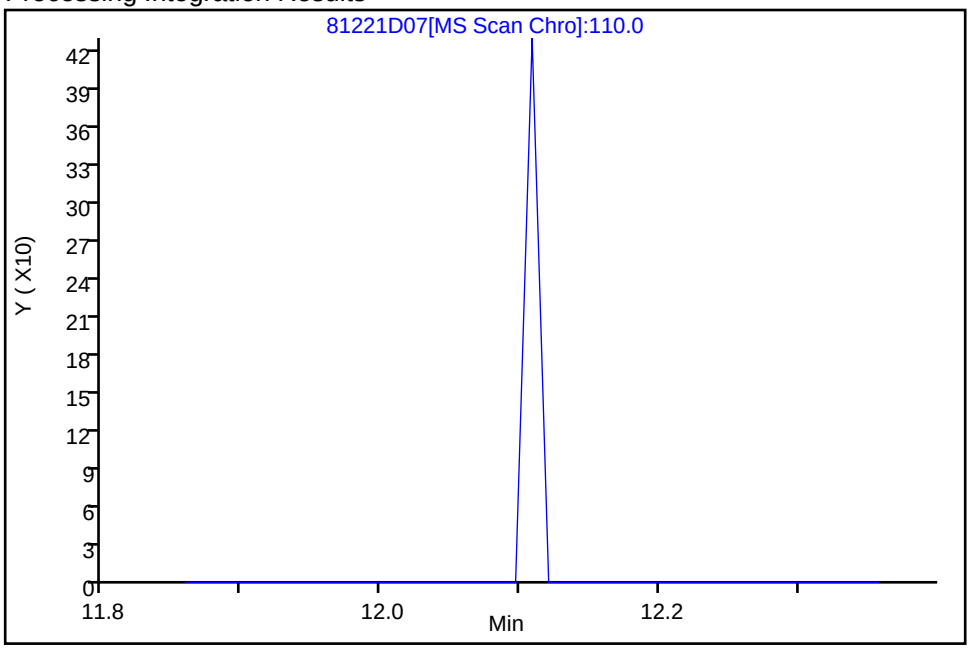
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

76 1,2,3-Trichloropropane, CAS: 96-18-4

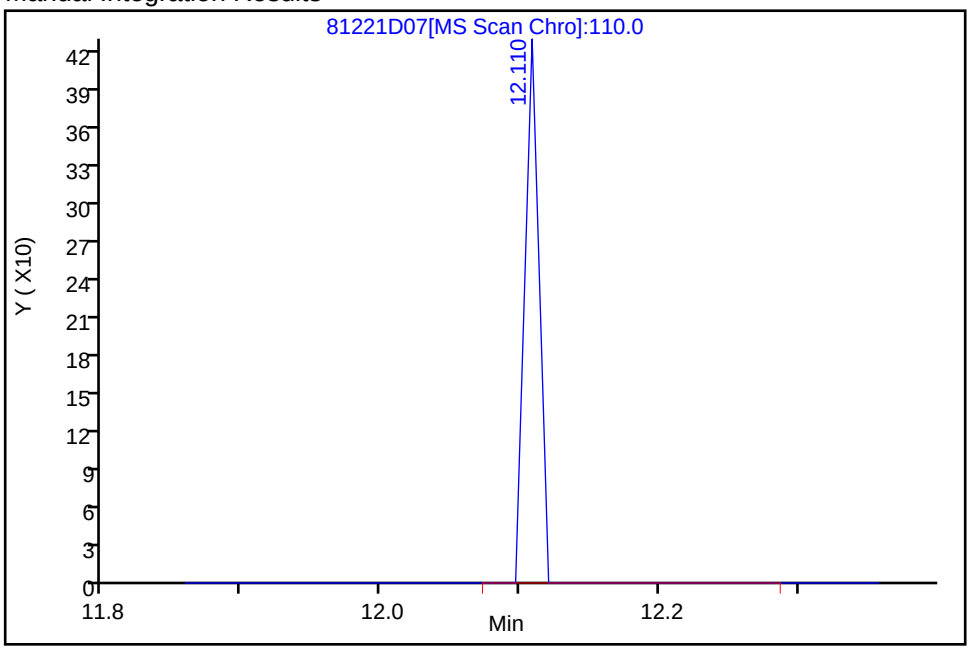
Not Detected
12.110

Processing Integration Results



Manual Integration Results

RT:	12.110
Area:	303
Amount:	0.40088
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:53:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

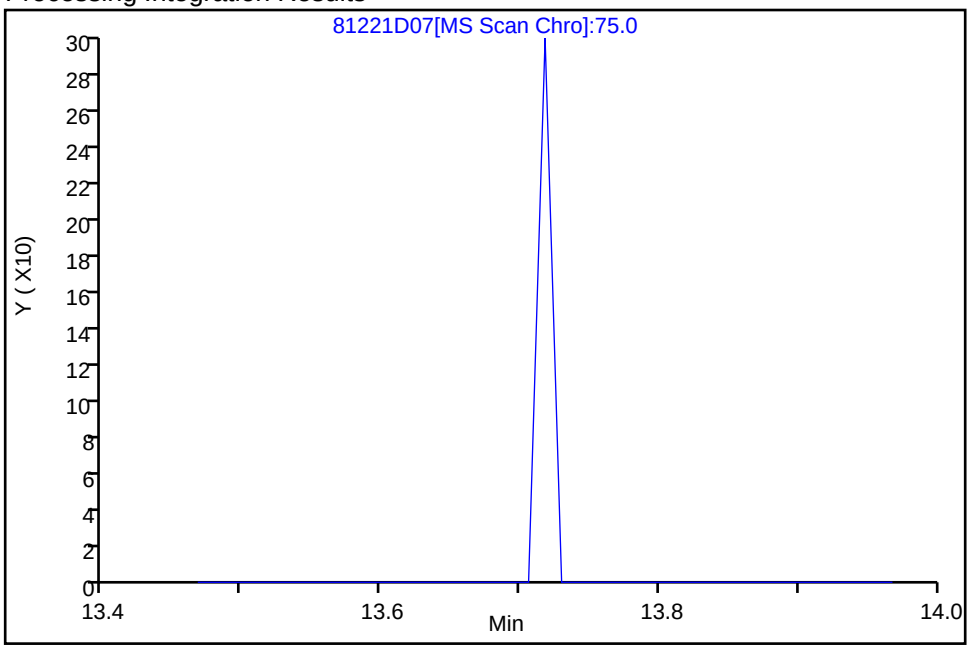
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

90 1,2-Dibromo-3-chloropropane, CAS: 96-12-8

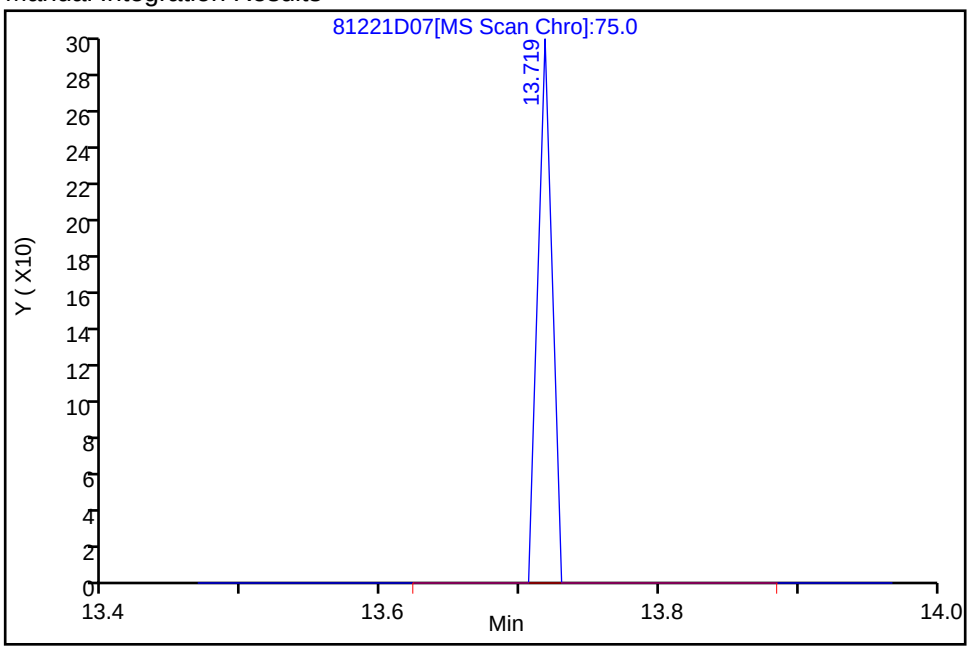
Not Detected
13.719

Processing Integration Results



Manual Integration Results

RT:	13.719
Area:	206
Amount:	0.28343
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:53:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 30-Dec-2015 11:11:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

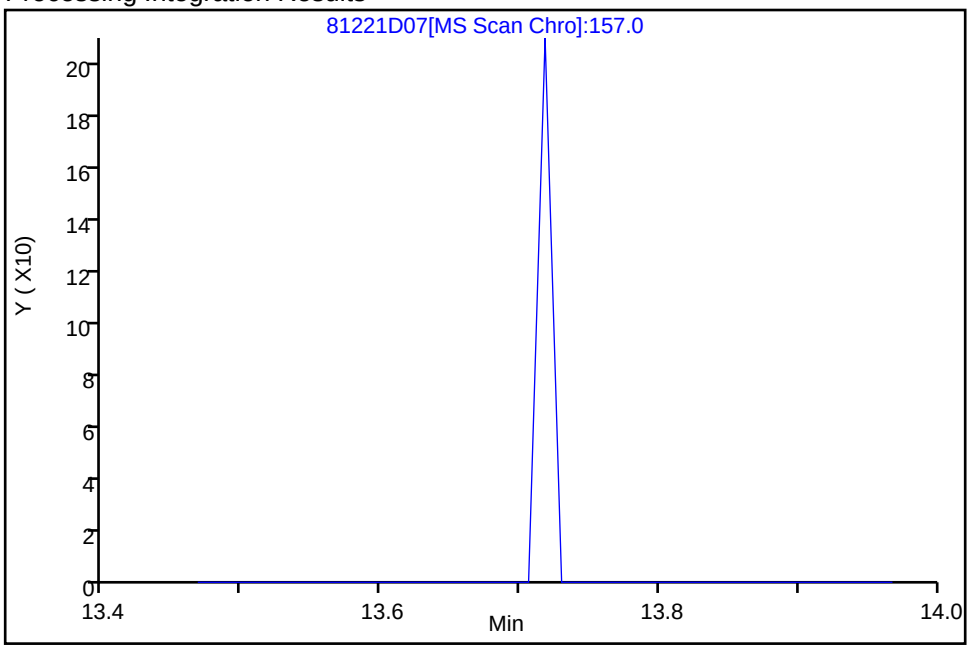
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D07.D		
Injection Date:	21-Dec-2015 14:32:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5RN	Lab ID:	VSTD0.5RN
Sample Info:	8122115D.b, VSTD0.5RN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

90 1,2-Dibromo-3-chloropropane, CAS: 96-12-8

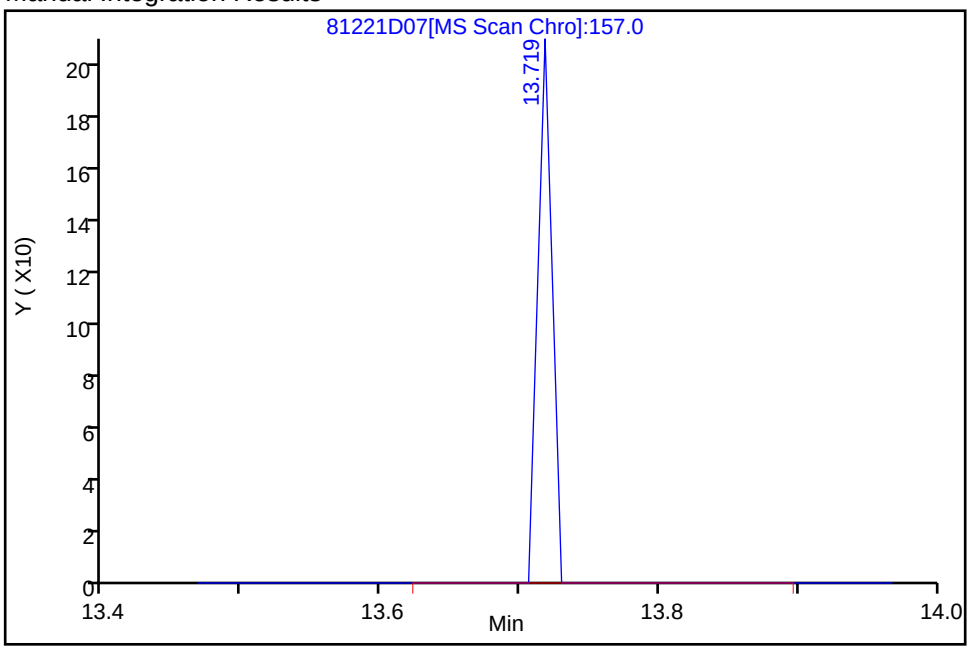
Not Detected
13.719

Processing Integration Results



Manual Integration Results

RT:	13.719
Area:	149
Amount:	0.28343
Amount Units:	ug/L



Data Editor: all, 21-Dec-2015 14:53:30
Audit Action: Mint
Audit Reason: NOID

Continuing Calibration Data

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: Trace

Instrument ID: Agilent MSD8 Calibration Date: 12/21/2015 Time: 2201

Lab File ID: 81221D23 Init. Calib. Date(s): 12/21/2015 12/21/2015

EPA Sample No.: VSTD005RU Init. Calib. Time(s): 1245 1432

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 25.0 (mL)

COMPOUND	$\overline{\text{RRF}}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.222	0.234	0.010	5.3	50.0
Chloromethane	0.404	0.396	0.010	-2.1	50.0
Vinyl chloride	0.237	0.250	0.010	5.6	50.0
Bromomethane	0.114	0.108	0.010	-5.7	50.0
Chloroethane	0.140	0.146	0.010	4.7	50.0
Trichlorofluoromethane	0.278	0.299	0.010	7.5	50.0
1,1-Dichloroethene	0.201	0.210	0.020	4.8	25.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.101	0.109	0.010	8.1	50.0
Acetone	0.019	0.019	0.010	-1.8	50.0
Carbon disulfide	0.639	0.668	0.010	4.5	25.0
Methyl acetate	0.086	0.092	0.010	7.3	50.0
Methylene chloride	0.203	0.203	0.010	0.0	50.0
trans-1,2-Dichloroethene	0.232	0.237	0.070	2.1	25.0
Methyl tert-butyl ether	0.304	0.319	0.010	5.0	50.0
1,1-Dichloroethane	0.480	0.505	0.100	5.3	25.0
cis-1,2-Dichloroethene	0.245	0.247	0.100	1.1	25.0
2-Butanone	0.035	0.035	0.010	1.1	50.0
Bromochloromethane	0.081	0.087	0.020	7.8	25.0
Chloroform	0.483	0.440	0.040	-8.9	25.0
1,1,1-Trichloroethane	0.441	0.477	0.050	8.2	25.0
Cyclohexane	0.650	0.696	0.100	7.2	50.0
Carbon tetrachloride	0.390	0.430	0.020	10.3	50.0
Benzene	1.131	1.167	0.300	3.2	25.0
1,2-Dichloroethane	0.245	0.251	0.010	2.4	50.0
Trichloroethene	0.323	0.350	0.100	8.5	25.0
Methylcyclohexane	0.462	0.517	0.200	12.1	50.0
1,2-Dichloropropane	0.324	0.333	0.100	2.9	25.0
Bromodichloromethane	0.322	0.324	0.090	0.8	25.0
cis-1,3-Dichloropropene	0.357	0.363	0.100	1.8	25.0
4-Methyl-2-pentanone	0.111	0.118	0.010	6.4	50.0
Toluene	1.198	1.242	0.400	3.7	25.0
trans-1,3-Dichloropropene	0.248	0.250	0.010	0.7	25.0
1,1,2-Trichloroethane	0.133	0.133	0.040	0.0	25.0
Tetrachloroethene	0.257	0.271	0.100	5.6	25.0
2-Hexanone	0.073	0.078	0.010	5.7	50.0
Dibromochloromethane	0.171	0.174	0.050	1.8	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29

Analytical Method: Trace VOA Level: Trace

Instrument ID: Agilent MSD8 Calibration Date: 12/21/2015 Time: 2201

Lab File ID: 81221D23 Init. Calib. Date(s): 12/21/2015 12/21/2015

EPA Sample No.: VSTD005RU Init. Calib. Time(s): 1245 1432

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dibromoethane	0.127	0.130	0.010	2.5	25.0
Chlorobenzene	0.751	0.773	0.400	2.8	25.0
Ethylbenzene	1.324	1.366	0.500	3.1	25.0
o-Xylene	0.505	0.526	0.300	4.0	25.0
m, p-Xylene	0.538	0.559	0.200	4.0	25.0
Styrene	0.704	0.725	0.200	2.9	25.0
Bromoform	0.181	0.175	0.010	-3.7	50.0
Isopropylbenzene	1.282	1.337	0.700	4.3	25.0
1,1,2,2-Tetrachloroethane	0.122	0.130	0.050	6.0	25.0
1,3-Dichlorobenzene	1.274	1.251	0.500	-1.9	25.0
1,4-Dichlorobenzene	1.216	1.192	0.700	-2.0	25.0
1,2-Dichlorobenzene	1.009	1.022	0.400	1.3	25.0
1,2-Dibromo-3-chloropropane	0.036	0.033	0.010	-8.7	50.0
1,2,4-Trichlorobenzene	0.733	0.726	0.300	-1.0	50.0
1,2,3-Trichlorobenzene	0.559	0.542	0.200	-3.1	50.0
Vinyl Chloride-d3	0.143	0.151	0.010	5.9	50.0
Chloroethane-d5	0.127	0.126	0.010	-0.5	50.0
1,1-Dichloroethene-d2	0.471	0.499	0.010	6.0	25.0
2-Butanone-d5	0.041	0.043	0.010	3.9	50.0
Chloroform-d	0.418	0.412	0.010	-1.3	25.0
1,2-Dichloroethane-d4	0.178	0.186	0.010	4.9	25.0
Benzene-d6	1.093	1.113	0.030	1.8	25.0
1,2-Dichloropropane-d6	0.304	0.300	0.100	-1.3	25.0
Toluene-d8	1.020	1.041	0.200	2.1	25.0
trans-1,3-Dichloropropene-d4	0.221	0.217	0.010	-1.9	25.0
2-Hexanone-d5	0.031	0.033	0.010	5.8	50.0
1,1,2,2-Tetrachloroethane-d2	0.117	0.117	0.010	-0.2	25.0
1,2-Dichlorobenzene-d4	0.586	0.585	0.060	-0.2	25.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D23.D
Lab Sample ID: VSTD005RU Client Sample ID: VSTD005RU
Injection Date: 21-Dec-2015 22:01:30 Dil. Factor: 1.0
Operator: ALL Inst. ID: msd8.i
Sample Info: 8122115D.b, VSTD005RU
Method: \\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8e.m
Method Date: 21-Dec-2015 22:20:30 Quant Method: ISTD
Calib Date: 21-Dec-2015 14:32:30 Calib File: 81221D07.D
Sample Type: CCV ALS Bottle: 23
Cpnd Sublist: 2487.1.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
1 Dichlorodifluoromethane	0.221729	0.233539	0.01	5.3	50	105
2 Chloromethane	0.404285	0.395844	0.01	-2.1	50	98
$ 3 Vinyl Chloride-d3	0.142756	0.151201	0.01	5.9	50	106
4 Vinyl Chloride	0.236669	0.249838	0.01	5.6	50	106
5 Bromomethane	0.113984	0.107533	0.01	-5.7	50	94
$ 6 Chloroethane-d5	0.126965	0.126319	0.01	-0.5	50	99
7 Chloroethane	0.139536	0.146103	0.01	4.7	50	105
155 Vinyl bromide	0.145755	0.146785	0.1	0.7	50	101
8 Trichlorofluoromethane	0.277856	0.298708	0.01	7.5	50	108
10 2-Chloropropane	0.430031	0.432266	0.1	0.5	50	101
$ 12 1,1-Dichloroethene-d2	0.470639	0.498708	0.01	6	25	106
11 1,1,2-Trichloro-1,2,2-tr	0.10087	0.109026	0.01	8.1	50	108
13 1,1-Dichloroethene	0.200604	0.210218	0.02	4.8	25	105
14 Acetone	0.019287	0.018948	0.01	-1.8	50	98
15 Carbon Disulfide	0.638762	0.66757	0.01	4.5	25	105
16 Methyl Acetate	0.086012	0.092288	0.01	7.3	50	107
17 Methylene Chloride	0.202856	0.202931	0.01	0	50	100
18 1-Chloropropane	0.366156	0.364029	0.1	-0.6	50	99
20 Methyl tert-Butyl Ether	0.30383	0.319136	0.01	5	50	105
21 trans-1,2-Dichloroethene	0.23218	0.237129	0.07	2.1	25	102
23 1,1-Dichloroethane	0.479925	0.505444	0.1	5.3	25	105
$ 25 2-Butanone-d5	0.041368	0.042993	0.01	3.9	50	104
26 cis-1,2-Dichloroethene	0.244522	0.247313	0.1	1.1	25	101
28 2-Butanone	0.034736	0.035125	0.01	1.1	50	101
29 Bromochloromethane	0.081079	0.087418	0.02	7.8	25	108
$ 30 Chloroform-d	0.417701	0.412456	0.01	-1.3	25	99
31 Chloroform	0.483323	0.440071	0.04	-8.9	25	91
33 1,1,1-Trichloroethane	0.441034	0.477101	0.05	8.2	25	108
32 Cyclohexane	0.649584	0.69643	0.1	7.2	50	107
34 Carbon Tetrachloride	0.389516	0.429502	0.02	10.3	50	110
35 1,1-Dichloropropene	0.310605	0.325295	0.1	4.7	50	105
$ 38 1,2-Dichloroethane-d4	0.177676	0.186401	0.01	4.9	25	105
$ 36 Benzene-d6	1.092678	1.112633	0.03	1.8	25	102
37 Benzene	1.130791	1.167157	0.3	3.2	25	103
39 1,2-Dichloroethane	0.244905	0.25084	0.01	2.4	50	102

Report Date: 22-Dec-2015 08:29:04 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D23.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Trichloroethene	0.322844	0.350334	0.1	8.5	25	109
$ 44 1,2-Dichloropropane-d6	0.303959	0.300124	0.1	-1.3	25	99
43 Methylcyclohexane	0.461543	0.517481	0.2	12.1	50	112
45 1,2-Dichloropropane	0.32396	0.333383	0.1	2.9	25	103
156 2,3-dichloropropene	0.371516	0.370486	0.1	-0.3	50	100
49 Bromodichloromethane	0.321755	0.324168	0.09	0.8	25	101
50 cis-1,3-Dichloropropene	0.357087	0.363479	0.1	1.8	25	102
51 4-Methyl-2-pentanone	0.111109	0.118252	0.01	6.4	50	106
$ 52 Toluene-d8	1.01991	1.040889	0.2	2.1	25	102
53 Toluene	1.197554	1.241521	0.4	3.7	25	104
$ 54 trans-1,3-Dichloropropen	0.22141	0.217232	0.01	-1.9	25	98
55 trans-1,3-Dichloropropen	0.24818	0.249982	0.01	0.7	25	101
154 2-Bromo-1-chloropropane	0.255444	0.254244	0.1	-0.5	50	100
56 1,1,2-Trichloroethane	0.13339	0.133423	0.04	0	25	100
57 Tetrachloroethene	0.257165	0.271449	0.1	5.6	25	106
59 1,3-Dichloropropane	0.239437	0.246512	0.1	3	50	103
$ 58 2-Hexanone-d5	0.031496	0.033334	0.01	5.8	50	106
60 2-Hexanone	0.073381	0.077554	0.01	5.7	50	106
61 Dibromochloromethane	0.171057	0.174202	0.05	1.8	25	102
62 1,2-Dibromoethane	0.126845	0.130016	0.01	2.5	25	102
64 Chlorobenzene	0.751425	0.772632	0.4	2.8	25	103
65 Ethylbenzene	1.3241	1.365758	0.5	3.1	25	103
67 m+p-Xylenes	0.538042	0.559465	0.2	4	25	104
157 2,3-dibromopropene	0.071064	* 0.062678	0.1	-11.8	50	88
68 o-Xylene	0.505404	0.525592	0.3	4	25	104
69 Styrene	0.704132	0.724529	0.2	2.9	25	103
70 Bromoform	0.181487	0.174746	0.01	-3.7	50	96
71 Isopropylbenzene	1.281854	1.337304	0.7	4.3	25	104
$ 72 1,1,2,2-Tetrachloroethan	0.117485	0.117298	0.01	-0.2	25	100
74 1,1,2,2-Tetrachloroethan	0.12237	0.129661	0.05	6	25	106
76 1,2,3-Trichloropropane	0.152697	0.154775	0.1	1.4	50	101
83 1,3-Dichlorobenzene	1.274482	1.250832	0.5	-1.9	25	98
86 1,4-Dichlorobenzene	1.215657	1.191589	0.7	-2	25	98
$ 87 1,2-Dichlorobenzene-d4	0.586128	0.585007	0.06	-0.2	25	100
89 1,2-Dichlorobenzene	1.008861	1.022126	0.4	1.3	25	101
90 1,2-Dibromo-3-chloroprop	0.036139	0.032995	0.01	-8.7	50	91
91 1,2,4-Trichlorobenzene	0.733295	0.725892	0.3	-1	50	99
94 1,2,3-Trichlorobenzene	0.558976	0.541682	0.2	-3.1	50	97

Shealy Environmental Services
Target Compound Quantitation Report

Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D23.D
Lab Sample ID: VSTD005RU Client Sample ID: VSTD005RU
Injection Date: 21-Dec-2015 22:01:30 Dil. Factor: 1.0
Operator: ALL Inst. ID: msd8.i
Sample Info: 8122115D.b, VSTD005RU
Method: \\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8e.m
Method Date: 21-Dec-2015 22:20:30 Quant Method: ISTD
Calib Date: 21-Dec-2015 14:32:30 Calib File: 81221D07.D
Sample Type: CCV ALS Bottle: 23
Cpnd Sublist: 2487.1.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1: DB-624 (0.25 mm) Detector: MS Scan
Data Reviewer: all Review Date: 22-Dec-2015 08:21:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	1.745	1.745	0.000	62717	5.0000	5.2663	
2 Chloromethane	50.0	1.922	1.922	0.000	106304	5.0000	4.8956	
$ 3 Vinyl Chloride-d3	65.0	2.040	2.040	0.000	40605	5.0000	5.2958	
4 Vinyl Chloride	62.0	2.052	2.052	0.000	67094	5.0000	5.2782	
5 Bromomethane	94.0	2.395	2.395	0.000	28878	5.0000	4.7170	
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	33923	5.0000	4.9746	
7 Chloroethane	64.0	2.502	2.502	0.000	39236	5.0000	5.2353	
155 Vinyl bromide	106.0	2.715	2.715	0.000	39419	5.0000	5.0353	
8 Trichlorofluoromethane	101.0	2.774	2.774	0.000	80218	5.0000	5.3752	
10 2-Chloropropane	43.0	3.212	3.212	0.000	116085	5.0000	5.0260	
$ 12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	133928	5.0000	5.2982	R
13 1,1-Dichloroethene	96.0	3.389	3.389	0.000	56454	5.0000	5.2396	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.413	3.413	0.000	29279	5.0000	5.4043	
14 Acetone	43.0	3.437	3.437	0.000	50885	50.000	49.122	
15 Carbon Disulfide	76.0	3.685	3.685	0.000	179276	5.0000	5.2255	
16 Methyl Acetate	43.0	3.875	3.875	0.000	24784	5.0000	5.3649	
17 Methylene Chloride	84.0	4.005	4.005	0.000	54497	5.0000	5.0018	
18 1-Chloropropane	42.0	4.052	4.052	0.000	97760	5.0000	4.9710	
20 Methyl tert-Butyl Ether	73.0	4.372	4.372	0.000	85704	5.0000	5.2519	
21 trans-1,2-Dichloroethene	96.0	4.372	4.372	0.000	63681	5.0000	5.1066	
23 1,1-Dichloroethane	63.0	4.928	4.928	0.000	135737	5.0000	5.2659	
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	115457	50.000	51.964	
26 cis-1,2-Dichloroethene	96.0	5.697	5.697	0.000	66416	5.0000	5.0571	
28 2-Butanone	43.0	5.709	5.709	0.000	94328	50.000	50.560	
29 Bromochloromethane	128.0	6.004	6.004	0.000	23476	5.0000	5.3909	
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	110765	5.0000	4.9372	
31 Chloroform	83.0	6.111	6.111	0.000	118181	5.0000	4.5526	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 1,1,1-Trichloroethane	97.0	6.371	6.371	0.000	99412	5.0000	5.4089	
35 1,1-Dichloropropene	75.0	6.584	6.584	0.000	87358	5.0000	5.2365	
32 Cyclohexane	56.0	6.454	6.454	0.000	145113	5.0000	5.3606	
34 Carbon Tetrachloride	117.0	6.596	6.596	0.000	89494	5.0000	5.5133	
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	50058	5.0000	5.2455	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	231836	5.0000	5.0913	
37 Benzene	78.0	6.856	6.856	0.000	243197	5.0000	5.1608	
39 1,2-Dichloroethane	62.0	6.868	6.868	0.000	67363	5.0000	5.1212	
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	268550	5.0000	5.0000	
42 Trichloroethene	95.0	7.720	7.720	0.000	72998	5.0000	5.4257	
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	62536	5.0000	4.9369	
43 Methylcyclohexane	83.0	7.981	7.981	0.000	107826	5.0000	5.6060	
45 1,2-Dichloropropane	63.0	8.016	8.016	0.000	69466	5.0000	5.1454	
156 2,3-dichloropropene	75.0	8.075	8.075	0.000	77197	5.0000	4.9861	
49 Bromodichloromethane	83.0	8.383	8.383	0.000	67546	5.0000	5.0375	
50 cis-1,3-Dichloropropene	75.0	8.986	8.986	0.000	75737	5.0000	5.0895	
51 4-Methyl-2-pentanone	43.0	9.199	9.199	0.000	246398	50.000	53.214	
$ 52 Toluene-d8	98.0	9.353	9.353	0.000	216887	5.0000	5.1028	
53 Toluene	91.0	9.436	9.436	0.000	258692	5.0000	5.1836	
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	45264	5.0000	4.9057	
55 trans-1,3-Dichloropropene	75.0	9.685	9.685	0.000	52088	5.0000	5.0363	
56 1,1,2-Trichloroethane	97.0	9.898	9.898	0.000	27801	5.0000	5.0012	
57 Tetrachloroethene	164.0	10.075	10.075	0.000	56561	5.0000	5.2777	
59 1,3-Dichloropropane	76.0	10.087	10.087	0.000	51365	5.0000	5.1478	
154 2-Bromo-1-chloropropane	77.0	9.803	9.803	0.000	52976	5.0000	4.9765	
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	69458	50.000	52.918	
60 2-Hexanone	43.0	10.170	10.170	0.000	161597	50.000	52.844	
61 Dibromochloromethane	129.0	10.335	10.335	0.000	36298	5.0000	5.0919	
62 1,2-Dibromoethane	107.0	10.454	10.454	0.000	27091	5.0000	5.1250	
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	208367	5.0000	5.0000	
64 Chlorobenzene	112.0	10.939	10.939	0.000	160991	5.0000	5.1411	
65 Ethylbenzene	91.0	11.045	11.045	0.000	284579	5.0000	5.1573	
67 m+p-Xylenes	106.0	11.152	11.152	0.000	116574	5.0000	5.1991	
68 o-Xylene	106.0	11.507	11.507	0.000	109516	5.0000	5.1997	
69 Styrene	104.0	11.519	11.519	0.000	150968	5.0000	5.1448	
70 Bromoform	173.0	11.684	11.684	0.000	17170	5.0000	4.8143	
71 Isopropylbenzene	105.0	11.826	11.826	0.000	278650	5.0000	5.2163	
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.039	12.039	0.000	24441	5.0000	4.9920	
74 1,1,2,2-Tetrachloroethane	83.0	12.063	12.063	0.000	27017	5.0000	5.2979	
76 1,2,3-Trichloropropane	75.0	12.110	12.110	0.000	32250	5.0000	5.0681	
157 2,3-dibromopropene	119.0	11.400	11.400	0.000	13060	5.0000	4.4100	
83 1,3-Dichlorobenzene	146.0	12.820	12.820	0.000	122903	5.0000	4.9072	
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	98257	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0	12.891	12.891	0.000	117082	5.0000	4.9010	
$ 87 1,2-Dichlorobenzene-d4	152.0	13.152	13.152	0.000	57481	5.0000	4.9904	
89 1,2-Dichlorobenzene	146.0	13.175	13.175	0.000	100431	5.0000	5.0657	
90 1,2-Dibromo-3-chloropropane	75.0	13.720	13.720	0.000	3242	5.0000	4.5650	
91 1,2,4-Trichlorobenzene	180.0	14.299	14.299	0.000	71324	5.0000	4.9495	
94 1,2,3-Trichlorobenzene	180.0	14.666	14.666	0.000	53224	5.0000	4.8453	

QC Flag Legend

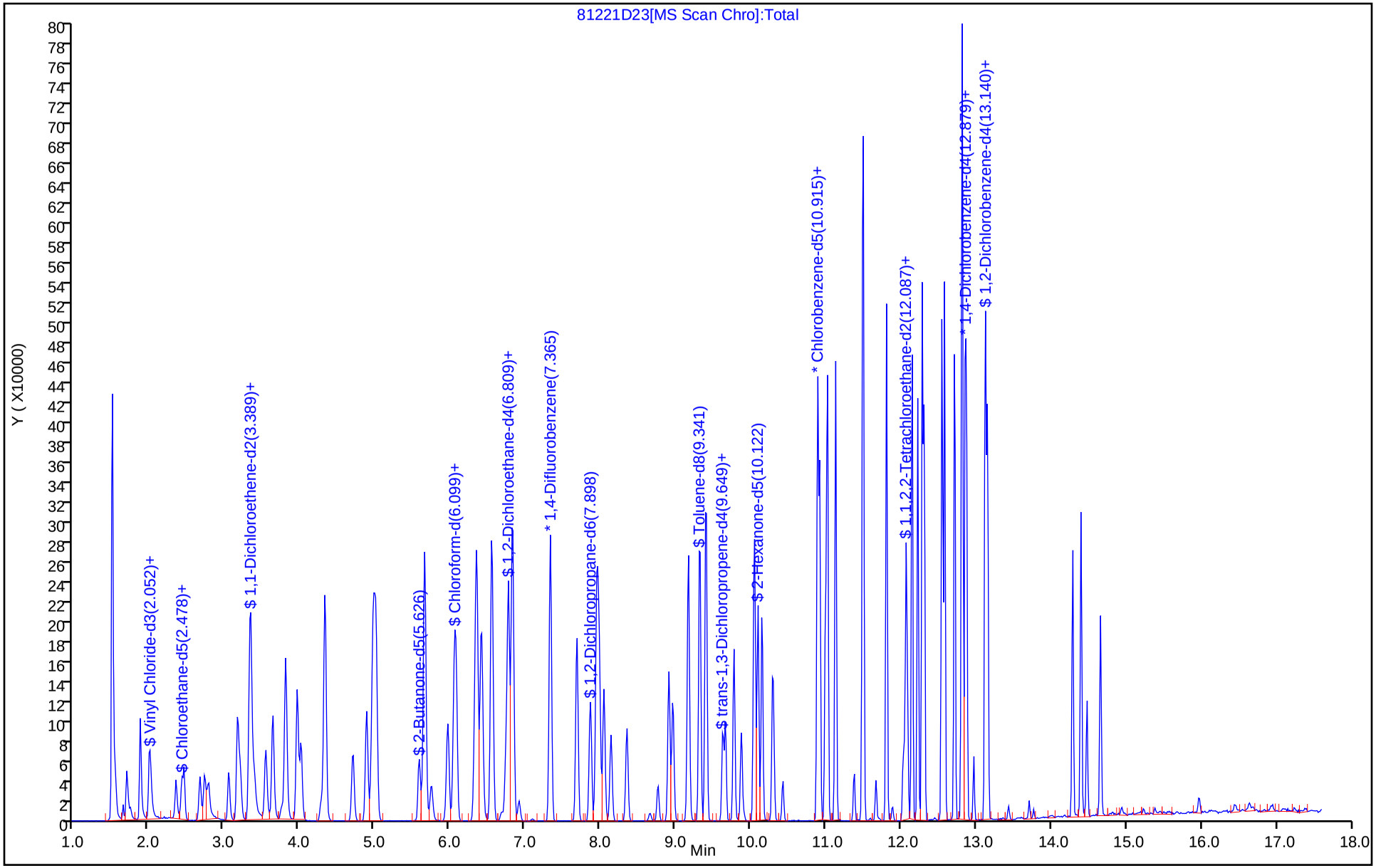
Processing Flags

R - Spike/Surrogte Fails %Recovery Test

Report Date: 22-Dec-2015 08:29:04 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D23.D				
Injection Date:	21-Dec-2015 22:01:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VSTD005RU	Lab ID:	VSTD005RU		
Sample Info:	8122115D.b, VSTD005RU				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: Trace

Instrument ID: Agilent MSD8 Calibration Date: 12/22/2015 Time: 1014

Lab File ID: 81222B02 Init. Calib. Date(s): 12/21/2015 12/21/2015

EPA Sample No.: VSTD005SK Init. Calib. Time(s): 1245 1432

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.222	0.173	0.010	-22.1	40.0
Chloromethane	0.404	0.365	0.010	-9.7	30.0
Vinyl chloride	0.237	0.192	0.010	-18.7	30.0
Bromomethane	0.114	0.086	0.010	-24.7	30.0
Chloroethane	0.140	0.113	0.010	-18.8	30.0
Trichlorofluoromethane	0.278	0.219	0.010	-21.1	30.0
1,1-Dichloroethene	0.201	0.192	0.020	-4.5	20.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.101	0.084	0.010	-16.4	30.0
Acetone	0.019	0.020	0.010	2.4	40.0
Carbon disulfide	0.639	0.594	0.010	-6.9	25.0
Methyl acetate	0.086	0.095	0.010	10.8	40.0
Methylene chloride	0.203	0.191	0.010	-5.8	30.0
trans-1,2-Dichloroethene	0.232	0.214	0.070	-7.6	20.0
Methyl tert-butyl ether	0.304	0.308	0.010	1.5	30.0
1,1-Dichloroethane	0.480	0.457	0.100	-4.8	20.0
cis-1,2-Dichloroethene	0.245	0.232	0.100	-5.3	20.0
2-Butanone	0.035	0.037	0.010	6.5	40.0
Bromochloromethane	0.081	0.082	0.020	0.7	20.0
Chloroform	0.483	0.408	0.040	-15.5	20.0
1,1,1-Trichloroethane	0.441	0.378	0.050	-14.3	20.0
Cyclohexane	0.650	0.554	0.100	-14.8	25.0
Carbon tetrachloride	0.390	0.353	0.020	-9.3	25.0
Benzene	1.131	1.041	0.300	-7.9	20.0
1,2-Dichloroethane	0.245	0.235	0.010	-3.9	25.0
Trichloroethene	0.323	0.296	0.100	-8.3	20.0
Methylcyclohexane	0.462	0.433	0.200	-6.1	25.0
1,2-Dichloropropane	0.324	0.299	0.100	-7.7	20.0
Bromodichloromethane	0.322	0.294	0.090	-8.7	20.0
cis-1,3-Dichloropropene	0.357	0.343	0.100	-4.0	20.0
4-Methyl-2-pentanone	0.111	0.117	0.010	5.0	30.0
Toluene	1.198	1.098	0.400	-8.3	20.0
trans-1,3-Dichloropropene	0.248	0.241	0.010	-3.0	20.0
1,1,2-Trichloroethane	0.133	0.127	0.040	-4.9	20.0
Tetrachloroethene	0.257	0.231	0.100	-10.1	20.0
2-Hexanone	0.073	0.077	0.010	5.1	40.0
Dibromochloromethane	0.171	0.165	0.050	-3.5	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29

Analytical Method: Trace VOA Level: Trace

Instrument ID: Agilent MSD8 Calibration Date: 12/22/2015 Time: 1014

Lab File ID: 81222B02 Init. Calib. Date(s): 12/21/2015 12/21/2015

EPA Sample No.: VSTD005SK Init. Calib. Time(s): 1245 1432

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dibromoethane	0.127	0.123	0.010	-3.2	20.0
Chlorobenzene	0.751	0.686	0.400	-8.7	20.0
Ethylbenzene	1.324	1.213	0.500	-8.4	20.0
o-Xylene	0.505	0.461	0.300	-8.8	20.0
m, p-Xylene	0.538	0.480	0.200	-10.8	20.0
Styrene	0.704	0.662	0.200	-5.9	20.0
Bromoform	0.181	0.175	0.010	-3.4	30.0
Isopropylbenzene	1.282	1.141	0.700	-11.0	25.0
1,1,2,2-Tetrachloroethane	0.122	0.116	0.050	-5.0	25.0
1,3-Dichlorobenzene	1.274	1.148	0.500	-9.9	20.0
1,4-Dichlorobenzene	1.216	1.090	0.700	-10.4	20.0
1,2-Dichlorobenzene	1.009	0.936	0.400	-7.2	20.0
1,2-Dibromo-3-chloropropane	0.036	0.032	0.010	-10.9	40.0
1,2,4-Trichlorobenzene	0.733	0.660	0.300	-10.0	30.0
1,2,3-Trichlorobenzene	0.559	0.502	0.200	-10.1	40.0
Vinyl Chloride-d3	0.143	0.129	0.010	-9.6	30.0
Chloroethane-d5	0.127	0.104	0.010	-18.4	30.0
1,1-Dichloroethene-d2	0.471	0.409	0.010	-13.1	25.0
2-Butanone-d5	0.041	0.043	0.010	3.0	40.0
Chloroform-d	0.418	0.376	0.010	-10.1	20.0
1,2-Dichloroethane-d4	0.178	0.164	0.010	-7.7	25.0
Benzene-d6	1.093	0.944	0.030	-13.6	20.0
1,2-Dichloropropane-d6	0.304	0.261	0.100	-14.0	20.0
Toluene-d8	1.020	0.894	0.200	-12.3	20.0
trans-1,3-Dichloropropene-d4	0.221	0.213	0.010	-3.8	25.0
2-Hexanone-d5	0.031	0.032	0.010	1.1	40.0
1,1,2,2-Tetrachloroethane-d2	0.117	0.110	0.010	-6.8	25.0
1,2-Dichlorobenzene-d4	0.586	0.540	0.060	-7.8	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B02.D
Lab Sample ID: VSTD005SK Client Sample ID: VSTD005SK
Injection Date: 22-Dec-2015 10:14:30 Dil. Factor: 1.0
Operator: ALL Inst. ID: msd8.i
Sample Info: 8122215B.b, VSTD005SK
Method: \\Organics\DD\chem\msd8.i\8122215B.b\TRACE-8.m
Method Date: 22-Dec-2015 10:45:30 Quant Method: ISTD
Calib Date: 21-Dec-2015 14:32:30 Calib File: 81221D07.D
Sample Type: CCV ALS Bottle: 2
Cpnd Sublist: 2487.1.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
1 Dichlorodifluoromethane	0.221729	0.172623	0.01	-22.1	40	78
2 Chloromethane	0.404285	0.364993	0.01	-9.7	30	90
$ 3 Vinyl Chloride-d3	0.142756	0.129092	0.01	-9.6	30	90
4 Vinyl Chloride	0.236669	0.192381	0.01	-18.7	30	81
5 Bromomethane	0.113984	0.085817	0.01	-24.7	30	75
$ 6 Chloroethane-d5	0.126965	0.103611	0.01	-18.4	30	82
7 Chloroethane	0.139536	0.113353	0.01	-18.8	30	81
155 Vinyl bromide	0.145755	0.120587	0.1	-17.3	30	83
8 Trichlorofluoromethane	0.277856	0.219106	0.01	-21.1	30	79
10 2-Chloropropane	0.430031	0.33728	0.1	-21.6	30	78
$ 12 1,1-Dichloroethene-d2	0.470639	0.409157	0.01	-13.1	25	87
11 1,1,2-Trichloro-1,2,2-tr	0.10087	0.084295	0.01	-16.4	30	84
13 1,1-Dichloroethene	0.200604	0.191601	0.02	-4.5	20	96
14 Acetone	0.019287	0.019758	0.01	2.4	40	102
15 Carbon Disulfide	0.638762	0.594416	0.01	-6.9	25	93
16 Methyl Acetate	0.086012	0.095322	0.01	10.8	40	111
17 Methylene Chloride	0.202856	0.191114	0.01	-5.8	30	94
18 1-Chloropropane	0.366156	0.301579	0.1	-17.6	30	82
20 Methyl tert-Butyl Ether	0.30383	0.308256	0.01	1.5	30	101
21 trans-1,2-Dichloroethene	0.23218	0.214498	0.07	-7.6	20	92
23 1,1-Dichloroethane	0.479925	0.457048	0.1	-4.8	20	95
$ 25 2-Butanone-d5	0.041368	0.042618	0.01	3	40	103
26 cis-1,2-Dichloroethene	0.244522	0.231634	0.1	-5.3	20	95
28 2-Butanone	0.034736	0.03698	0.01	6.5	40	106
29 Bromochloromethane	0.081079	0.081609	0.02	0.7	20	101
$ 30 Chloroform-d	0.417701	0.375512	0.01	-10.1	20	90
31 Chloroform	0.483323	0.408287	0.04	-15.5	20	84
33 1,1,1-Trichloroethane	0.441034	0.377825	0.05	-14.3	20	86
32 Cyclohexane	0.649584	0.553501	0.1	-14.8	25	85
34 Carbon Tetrachloride	0.389516	0.353183	0.02	-9.3	25	91
35 1,1-Dichloropropene	0.310605	0.294258	0.1	-5.3	30	95
$ 38 1,2-Dichloroethane-d4	0.177676	0.163943	0.01	-7.7	25	92
$ 36 Benzene-d6	1.092678	0.943547	0.03	-13.6	20	86
37 Benzene	1.130791	1.041093	0.3	-7.9	20	92
39 1,2-Dichloroethane	0.244905	0.23534	0.01	-3.9	25	96

Report Date: 23-Dec-2015 13:23:48 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B02.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Trichloroethene	0.322844	0.296191	0.1	-8.3	20	92
$ 44 1,2-Dichloropropane-d6	0.303959	0.261485	0.1	-14	20	86
43 Methylcyclohexane	0.461543	0.433316	0.2	-6.1	25	94
45 1,2-Dichloropropane	0.32396	0.298985	0.1	-7.7	20	92
156 2,3-dichloropropene	0.371516	0.31804	0.1	-14.4	30	86
49 Bromodichloromethane	0.321755	0.293886	0.09	-8.7	20	91
50 cis-1,3-Dichloropropene	0.357087	0.342704	0.1	-4	20	96
51 4-Methyl-2-pentanone	0.111109	0.116623	0.01	5	30	105
$ 52 Toluene-d8	1.01991	0.894195	0.2	-12.3	20	88
53 Toluene	1.197554	1.097657	0.4	-8.3	20	92
$ 54 trans-1,3-Dichloropropen	0.22141	0.213039	0.01	-3.8	25	96
55 trans-1,3-Dichloropropen	0.24818	0.240838	0.01	-3	20	97
154 2-Bromo-1-chloropropane	0.255444	0.223292	0.1	-12.6	30	87
56 1,1,2-Trichloroethane	0.13339	0.126906	0.04	-4.9	20	95
57 Tetrachloroethene	0.257165	0.231115	0.1	-10.1	20	90
59 1,3-Dichloropropane	0.239437	0.232758	0.1	-2.8	30	97
$ 58 2-Hexanone-d5	0.031496	0.031844	0.01	1.1	40	101
60 2-Hexanone	0.073381	0.0771	0.01	5.1	40	105
61 Dibromochloromethane	0.171057	0.165115	0.05	-3.5	20	97
62 1,2-Dibromoethane	0.126845	0.122846	0.01	-3.2	20	97
64 Chlorobenzene	0.751425	0.686374	0.4	-8.7	20	91
65 Ethylbenzene	1.3241	1.21265	0.5	-8.4	20	92
67 m+p-Xylenes	0.538042	0.479986	0.2	-10.8	20	89
157 2,3-dibromopropene	0.071064	* 0.057364	0.1	-19.3	30	81
68 o-Xylene	0.505404	0.460841	0.3	-8.8	20	91
69 Styrene	0.704132	0.66225	0.2	-5.9	20	94
70 Bromoform	0.181487	0.175359	0.01	-3.4	30	97
71 Isopropylbenzene	1.281854	1.141098	0.7	-11	25	89
$ 72 1,1,2,2-Tetrachloroethan	0.117485	0.109522	0.01	-6.8	25	93
74 1,1,2,2-Tetrachloroethan	0.12237	0.116195	0.05	-5	25	95
76 1,2,3-Trichloropropane	0.152697	0.142766	0.1	-6.5	30	93
83 1,3-Dichlorobenzene	1.274482	1.147741	0.5	-9.9	20	90
86 1,4-Dichlorobenzene	1.215657	1.089829	0.7	-10.4	20	90
$ 87 1,2-Dichlorobenzene-d4	0.586128	0.540343	0.06	-7.8	20	92
89 1,2-Dichlorobenzene	1.008861	0.93598	0.4	-7.2	20	93
90 1,2-Dibromo-3-chloroprop	0.036139	0.032185	0.01	-10.9	40	89
91 1,2,4-Trichlorobenzene	0.733295	0.660309	0.3	-10	30	90
94 1,2,3-Trichlorobenzene	0.558976	0.502362	0.2	-10.1	40	90

Report Date: 23-Dec-2015 13:23:48 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B02.D		
Lab Sample ID:	VSTD005SK	Client Sample ID:	VSTD005SK
Injection Date:	22-Dec-2015 10:14:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122215B.b, VSTD005SK		
Method:	\\Organics\DD\chem\msd8.i\8122215B.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:45:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	CCV	ALS Bottle:	2
Cpnd Sublist:	2487.1.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	22-Dec-2015 16:51:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	1.745	1.745	0.000	49562	5.0000	3.8926	
2 Chloromethane	50.0	1.922	1.922	0.000	104794	5.0000	4.5141	
$ 3 Vinyl Chloride-d3	65.0	2.040	2.040	0.000	37064	5.0000	4.5214	
4 Vinyl Chloride	62.0	2.052	2.052	0.000	55235	5.0000	4.0644	
5 Bromomethane	94.0	2.395	2.395	0.000	24639	5.0000	3.7644	
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	29748	5.0000	4.0803	
7 Chloroethane	64.0	2.502	2.502	0.000	32545	5.0000	4.0618	
155 Vinyl bromide	106.0	2.715	2.715	0.000	34622	5.0000	4.1366	
8 Trichlorofluoromethane	101.0	2.786	2.786	0.000	62908	5.0000	3.9428	
10 2-Chloropropane	43.0	3.212	3.212	0.000	96837	5.0000	3.9216	
$ 12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	117474	5.0000	4.3468	
13 1,1-Dichloroethene	96.0	3.389	3.389	0.000	55011	5.0000	4.7756	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.401	3.401	0.000	24202	5.0000	4.1784	
14 Acetone	43.0	3.437	3.437	0.000	56728	50.000	51.223	
15 Carbon Disulfide	76.0	3.685	3.685	0.000	170664	5.0000	4.6529	
16 Methyl Acetate	43.0	3.874	3.874	0.000	27368	5.0000	5.5412	
17 Methylene Chloride	84.0	4.005	4.005	0.000	54871	5.0000	4.7106	
18 1-Chloropropane	42.0	4.052	4.052	0.000	86587	5.0000	4.1182	
20 Methyl tert-Butyl Ether	73.0	4.371	4.371	0.000	88504	5.0000	5.0728	
21 trans-1,2-Dichloroethene	96.0	4.371	4.371	0.000	61585	5.0000	4.6192	
23 1,1-Dichloroethane	63.0	4.928	4.928	0.000	131224	5.0000	4.7617	
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	122362	50.000	51.512	
26 cis-1,2-Dichloroethene	96.0	5.697	5.697	0.000	66505	5.0000	4.7365	
28 2-Butanone	43.0	5.697	5.697	0.000	106173	50.000	53.230	
29 Bromochloromethane	128.0	6.004	6.004	0.000	23431	5.0000	5.0327	
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	107814	5.0000	4.4950	
31 Chloroform	83.0	6.111	6.111	0.000	117224	5.0000	4.2237	

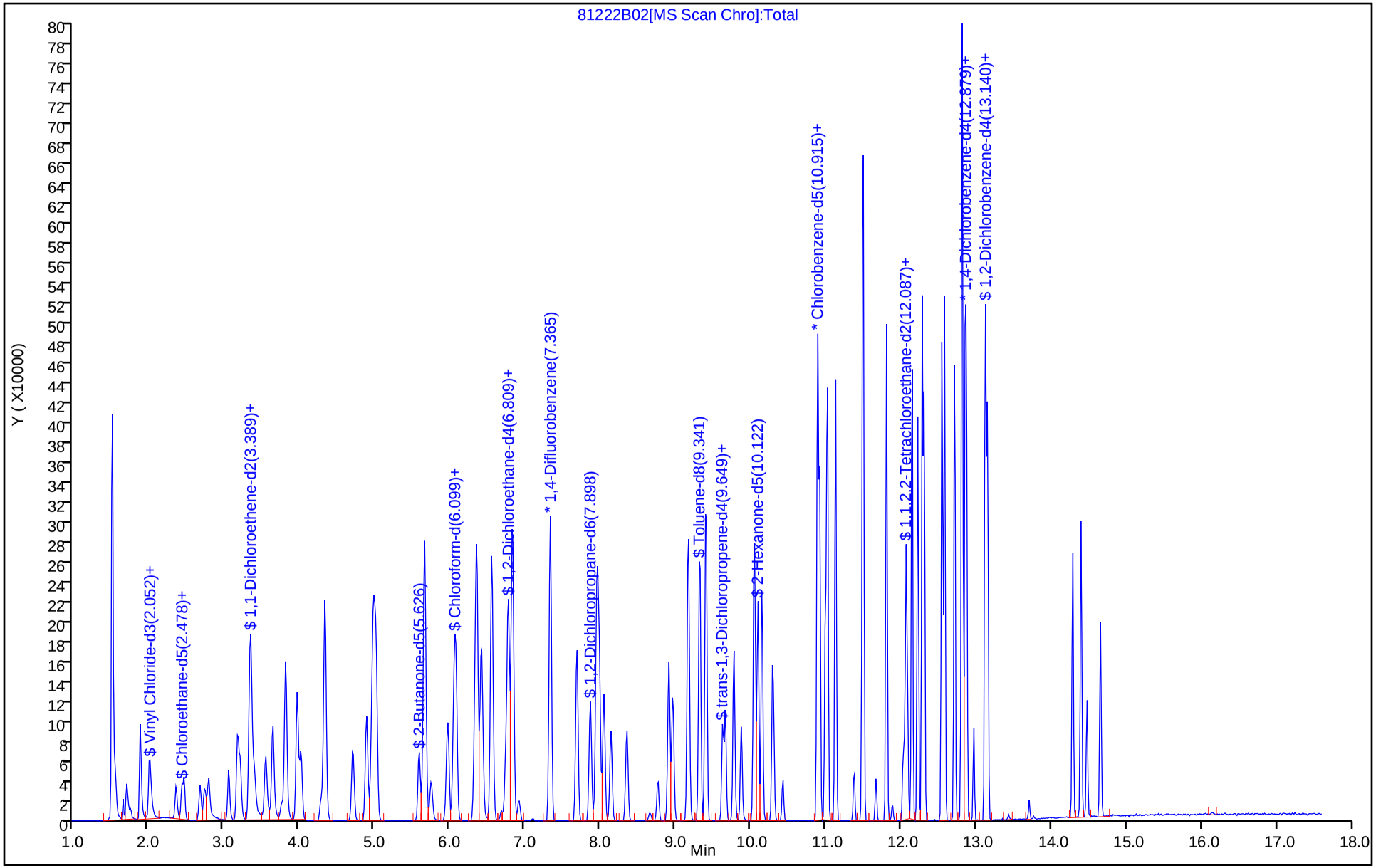
Report Date: 23-Dec-2015 13:23:48 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B02.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 1,1,1-Trichloroethane	97.0	6.371	6.371	0.000	88331	5.0000	4.2834	
35 1,1-Dichloropropene	75.0	6.584	6.584	0.000	84485	5.0000	4.7369	
32 Cyclohexane	56.0	6.454	6.454	0.000	129402	5.0000	4.2604	
34 Carbon Tetrachloride	117.0	6.596	6.596	0.000	82570	5.0000	4.5336	
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	47070	5.0000	4.6135	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	220590	5.0000	4.3176	
37 Benzene	78.0	6.856	6.856	0.000	243395	5.0000	4.6034	
39 1,2-Dichloroethane	62.0	6.868	6.868	0.000	67569	5.0000	4.8047	
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	287112	5.0000	5.0000	
42 Trichloroethene	95.0	7.720	7.720	0.000	69246	5.0000	4.5872	
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	61132	5.0000	4.3013	
43 Methylcyclohexane	83.0	7.981	7.981	0.000	101304	5.0000	4.6942	
45 1,2-Dichloropropane	63.0	8.016	8.016	0.000	69899	5.0000	4.6145	
156 2,3-dichloropropene	75.0	8.075	8.075	0.000	74354	5.0000	4.2803	
49 Bromodichloromethane	83.0	8.383	8.383	0.000	68707	5.0000	4.5669	
50 cis-1,3-Dichloropropene	75.0	8.986	8.986	0.000	80120	5.0000	4.7986	
51 4-Methyl-2-pentanone	43.0	9.199	9.199	0.000	272651	50.000	52.481	
$ 52 Toluene-d8	98.0	9.341	9.341	0.000	209052	5.0000	4.3837	
53 Toluene	91.0	9.436	9.436	0.000	256619	5.0000	4.5829	
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	49806	5.0000	4.8110	
55 trans-1,3-Dichloropropene	75.0	9.684	9.684	0.000	56305	5.0000	4.8521	
56 1,1,2-Trichloroethane	97.0	9.897	9.897	0.000	29669	5.0000	4.7569	
57 Tetrachloroethene	164.0	10.075	10.075	0.000	54032	5.0000	4.4935	
59 1,3-Dichloropropane	76.0	10.087	10.087	0.000	54416	5.0000	4.8605	
154 2-Bromo-1-chloropropane	77.0	9.803	9.803	0.000	52203	5.0000	4.3707	
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	74448	50.000	50.552	
60 2-Hexanone	43.0	10.170	10.170	0.000	180251	50.000	52.534	
61 Dibromochloromethane	129.0	10.335	10.335	0.000	38602	5.0000	4.8263	
62 1,2-Dibromoethane	107.0	10.454	10.454	0.000	28720	5.0000	4.8424	
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	233788	5.0000	5.0000	
64 Chlorobenzene	112.0	10.939	10.939	0.000	160466	5.0000	4.5671	
65 Ethylbenzene	91.0	11.045	11.045	0.000	283503	5.0000	4.5791	
67 m+p-Xylenes	106.0	11.152	11.152	0.000	112215	5.0000	4.4605	
68 o-Xylene	106.0	11.507	11.507	0.000	107739	5.0000	4.5591	
69 Styrene	104.0	11.519	11.519	0.000	154826	5.0000	4.7026	
70 Bromoform	173.0	11.684	11.684	0.000	19004	5.0000	4.8312	
71 Isopropylbenzene	105.0	11.826	11.826	0.000	266775	5.0000	4.4510	
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.051	12.051	0.000	25605	5.0000	4.6611	
74 1,1,2,2-Tetrachloroethane	83.0	12.063	12.063	0.000	27165	5.0000	4.7477	
76 1,2,3-Trichloropropane	75.0	12.110	12.110	0.000	33377	5.0000	4.6748	
157 2,3-dibromopropene	119.0	11.400	11.400	0.000	13411	5.0000	4.0361	
83 1,3-Dichlorobenzene	146.0	12.820	12.820	0.000	124383	5.0000	4.5028	
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	108372	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0	12.891	12.891	0.000	118107	5.0000	4.4825	
$ 87 1,2-Dichlorobenzene-d4	152.0	13.151	13.151	0.000	58558	5.0000	4.6094	
89 1,2-Dichlorobenzene	146.0	13.175	13.175	0.000	101434	5.0000	4.6388	
90 1,2-Dibromo-3-chloropropane	75.0	13.719	13.719	0.000	3488	5.0000	4.4530	
91 1,2,4-Trichlorobenzene	180.0	14.299	14.299	0.000	71559	5.0000	4.5023	
94 1,2,3-Trichlorobenzene	180.0	14.666	14.666	0.000	54442	5.0000	4.4936	

Report Date: 23-Dec-2015 13:23:48 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B02.D				
Injection Date:	22-Dec-2015 10:14:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VSTD005SK	Lab ID:	VSTD005SK		
Sample Info:	8122215B.b, VSTD005SK				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: Trace

Instrument ID: Agilent MSD8 Calibration Date: 12/22/2015 Time: 2029

Lab File ID: 81222B24 Init. Calib. Date(s): 12/21/2015 12/21/2015

EPA Sample No.: VSTD005SM Init. Calib. Time(s): 1245 1432

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.222	0.187	0.010	-15.6	50.0
Chloromethane	0.404	0.380	0.010	-6.1	50.0
Vinyl chloride	0.237	0.219	0.010	-7.5	50.0
Bromomethane	0.114	0.098	0.010	-13.6	50.0
Chloroethane	0.140	0.137	0.010	-1.7	50.0
Trichlorofluoromethane	0.278	0.258	0.010	-7.1	50.0
1,1-Dichloroethene	0.201	0.214	0.020	6.8	25.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.101	0.117	0.010	15.8	50.0
Acetone	0.019	0.025	0.010	30.3	50.0
Carbon disulfide	0.639	0.674	0.010	5.6	25.0
Methyl acetate	0.086	0.110	0.010	28.3	50.0
Methylene chloride	0.203	0.220	0.010	8.2	50.0
trans-1,2-Dichloroethene	0.232	0.250	0.070	7.7	25.0
Methyl tert-butyl ether	0.304	0.355	0.010	16.8	50.0
1,1-Dichloroethane	0.480	0.521	0.100	8.6	25.0
cis-1,2-Dichloroethene	0.245	0.269	0.100	10.0	25.0
2-Butanone	0.035	0.047	0.010	36.4	50.0
Bromochloromethane	0.081	0.096	0.020	18.9	25.0
Chloroform	0.483	0.488	0.040	0.9	25.0
1,1,1-Trichloroethane	0.441	0.459	0.050	4.0	25.0
Cyclohexane	0.650	0.609	0.100	-6.2	50.0
Carbon tetrachloride	0.390	0.400	0.020	2.8	50.0
Benzene	1.131	1.153	0.300	2.0	25.0
1,2-Dichloroethane	0.245	0.284	0.010	15.9	50.0
Trichloroethene	0.323	0.338	0.100	4.5	25.0
Methylcyclohexane	0.462	0.473	0.200	2.5	50.0
1,2-Dichloropropane	0.324	0.349	0.100	7.6	25.0
Bromodichloromethane	0.322	0.342	0.090	6.1	25.0
cis-1,3-Dichloropropene	0.357	0.373	0.100	4.4	25.0
4-Methyl-2-pentanone	0.111	0.143	0.010	28.3	50.0
Toluene	1.198	1.221	0.400	2.0	25.0
trans-1,3-Dichloropropene	0.248	0.259	0.010	4.2	25.0
1,1,2-Trichloroethane	0.133	0.144	0.040	7.7	25.0
Tetrachloroethene	0.257	0.265	0.100	2.9	25.0
2-Hexanone	0.073	0.098	0.010	33.6	50.0
Dibromochloromethane	0.171	0.191	0.050	11.8	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29

Analytical Method: Trace VOA Level: Trace

Instrument ID: Agilent MSD8 Calibration Date: 12/22/2015 Time: 2029

Lab File ID: 81222B24 Init. Calib. Date(s): 12/21/2015 12/21/2015

EPA Sample No.: VSTD005SM Init. Calib. Time(s): 1245 1432

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 5.0	MIN RRF	%D	MAX %D
1,2-Dibromoethane	0.127	0.143	0.010	13.1	25.0
Chlorobenzene	0.751	0.773	0.400	2.9	25.0
Ethylbenzene	1.324	1.338	0.500	1.1	25.0
o-Xylene	0.505	0.518	0.300	2.5	25.0
m, p-Xylene	0.538	0.555	0.200	3.1	25.0
Styrene	0.704	0.736	0.200	4.6	25.0
Bromoform	0.181	0.194	0.010	6.9	50.0
Isopropylbenzene	1.282	1.291	0.700	0.7	25.0
1,1,2,2-Tetrachloroethane	0.122	0.140	0.050	14.6	25.0
1,3-Dichlorobenzene	1.274	1.210	0.500	-5.0	25.0
1,4-Dichlorobenzene	1.216	1.189	0.700	-2.2	25.0
1,2-Dichlorobenzene	1.009	1.014	0.400	0.5	25.0
1,2-Dibromo-3-chloropropane	0.036	0.038	0.010	5.4	50.0
1,2,4-Trichlorobenzene	0.733	0.703	0.300	-4.2	50.0
1,2,3-Trichlorobenzene	0.559	0.532	0.200	-4.8	50.0
Vinyl Chloride-d3	0.143	0.142	0.010	-0.6	50.0
Chloroethane-d5	0.127	0.120	0.010	-5.4	50.0
1,1-Dichloroethene-d2	0.471	0.478	0.010	1.6	25.0
2-Butanone-d5	0.041	0.052	0.010	24.9	50.0
Chloroform-d	0.418	0.429	0.010	2.8	25.0
1,2-Dichloroethane-d4	0.178	0.203	0.010	14.0	25.0
Benzene-d6	1.093	1.073	0.030	-1.8	25.0
1,2-Dichloropropane-d6	0.304	0.307	0.100	1.0	25.0
Toluene-d8	1.020	1.016	0.200	-0.3	25.0
trans-1,3-Dichloropropene-d4	0.221	0.219	0.010	-1.3	25.0
2-Hexanone-d5	0.031	0.038	0.010	22.2	50.0
1,1,2,2-Tetrachloroethane-d2	0.117	0.132	0.010	12.1	25.0
1,2-Dichlorobenzene-d4	0.586	0.595	0.060	1.5	25.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B24.D
Lab Sample ID: VSTD005SM Client Sample ID: VSTD005SM
Injection Date: 22-Dec-2015 20:29:30 Dil. Factor: 1.0
Operator: ALL Inst. ID: msd8.i
Sample Info: 8122215B.b, VSTD005SM
Method: \\Organics\DD\chem\msd8.i\8122215B.b\TRACE-8e.m
Method Date: 23-Dec-2015 13:01:30 Quant Method: ISTD
Calib Date: 21-Dec-2015 14:32:30 Calib File: 81221D07.D
Sample Type: CCV ALS Bottle: 24
Cpnd Sublist: 2487.1.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
1 Dichlorodifluoromethane	0.221729	0.187132	0.01	-15.6	50	84
2 Chloromethane	0.404285	0.379612	0.01	-6.1	50	94
$ 3 Vinyl Chloride-d3	0.142756	0.141967	0.01	-0.6	50	99
4 Vinyl Chloride	0.236669	0.218958	0.01	-7.5	50	93
5 Bromomethane	0.113984	0.098491	0.01	-13.6	50	86
$ 6 Chloroethane-d5	0.126965	0.120073	0.01	-5.4	50	95
7 Chloroethane	0.139536	0.137181	0.01	-1.7	50	98
155 Vinyl bromide	0.145755	0.136539	0.1	-6.3	50	94
8 Trichlorofluoromethane	0.277856	0.258085	0.01	-7.1	50	93
10 2-Chloropropane	0.430031	0.426293	0.1	-0.9	50	99
$ 12 1,1-Dichloroethene-d2	0.470639	0.47839	0.01	1.6	25	102
11 1,1,2-Trichloro-1,2,2-tr	0.10087	0.116781	0.01	15.8	50	116
13 1,1-Dichloroethene	0.200604	0.214338	0.02	6.8	25	107
14 Acetone	0.019287	0.025121	0.01	30.3	50	130
15 Carbon Disulfide	0.638762	0.67432	0.01	5.6	25	106
16 Methyl Acetate	0.086012	0.11033	0.01	28.3	50	128
17 Methylene Chloride	0.202856	0.219533	0.01	8.2	50	108
18 1-Chloropropane	0.366156	0.35582	0.1	-2.8	50	97
20 Methyl tert-Butyl Ether	0.30383	0.354792	0.01	16.8	50	117
21 trans-1,2-Dichloroethene	0.23218	0.250055	0.07	7.7	25	108
23 1,1-Dichloroethane	0.479925	0.521137	0.1	8.6	25	109
$ 25 2-Butanone-d5	0.041368	0.051648	0.01	24.9	50	125
26 cis-1,2-Dichloroethene	0.244522	0.268865	0.1	10	25	110
28 2-Butanone	0.034736	0.047395	0.01	36.4	50	136
29 Bromochloromethane	0.081079	0.096439	0.02	18.9	25	119
$ 30 Chloroform-d	0.417701	0.429196	0.01	2.8	25	103
31 Chloroform	0.483323	0.487913	0.04	0.9	25	101
33 1,1,1-Trichloroethane	0.441034	0.458647	0.05	4	25	104
32 Cyclohexane	0.649584	0.609158	0.1	-6.2	50	94
34 Carbon Tetrachloride	0.389516	0.400273	0.02	2.8	50	103
35 1,1-Dichloropropene	0.310605	0.337117	0.1	8.5	50	109
$ 38 1,2-Dichloroethane-d4	0.177676	0.202625	0.01	14	25	114
$ 36 Benzene-d6	1.092678	1.072827	0.03	-1.8	25	98
37 Benzene	1.130791	1.153325	0.3	2	25	102
39 1,2-Dichloroethane	0.244905	0.283827	0.01	15.9	50	116

Report Date: 23-Dec-2015 13:23:54 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B24.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Trichloroethene	0.322844	0.337514	0.1	4.5	25	105
$ 44 1,2-Dichloropropane-d6	0.303959	0.307035	0.1	1	25	101
43 Methylcyclohexane	0.461543	0.473115	0.2	2.5	50	103
45 1,2-Dichloropropane	0.32396	0.348564	0.1	7.6	25	108
156 2,3-dichloropropene	0.371516	0.355997	0.1	-4.2	50	96
49 Bromodichloromethane	0.321755	0.341534	0.09	6.1	25	106
50 cis-1,3-Dichloropropene	0.357087	0.372966	0.1	4.4	25	104
51 4-Methyl-2-pentanone	0.111109	0.142547	0.01	28.3	50	128
$ 52 Toluene-d8	1.01991	1.016381	0.2	-0.3	25	100
53 Toluene	1.197554	1.221392	0.4	2	25	102
$ 54 trans-1,3-Dichloropropen	0.22141	0.218587	0.01	-1.3	25	99
55 trans-1,3-Dichloropropen	0.24818	0.258701	0.01	4.2	25	104
154 2-Bromo-1-chloropropane	0.255444	0.26086	0.1	2.1	50	102
56 1,1,2-Trichloroethane	0.13339	0.143695	0.04	7.7	25	108
57 Tetrachloroethene	0.257165	0.264658	0.1	2.9	25	103
59 1,3-Dichloropropane	0.239437	0.261605	0.1	9.3	50	109
$ 58 2-Hexanone-d5	0.031496	0.038476	0.01	22.2	50	122
60 2-Hexanone	0.073381	0.098	0.01	33.6	50	134
61 Dibromochloromethane	0.171057	0.191317	0.05	11.8	25	112
62 1,2-Dibromoethane	0.126845	0.143476	0.01	13.1	25	113
64 Chlorobenzene	0.751425	0.773387	0.4	2.9	25	103
65 Ethylbenzene	1.3241	1.338083	0.5	1.1	25	101
67 m+p-Xylenes	0.538042	0.554619	0.2	3.1	25	103
157 2,3-dibromopropene	0.071064	* 0.071138	0.1	0.1	50	100
68 o-Xylene	0.505404	0.518042	0.3	2.5	25	103
69 Styrene	0.704132	0.736187	0.2	4.6	25	105
70 Bromoform	0.181487	0.194023	0.01	6.9	50	107
71 Isopropylbenzene	1.281854	1.291167	0.7	0.7	25	101
$ 72 1,1,2,2-Tetrachloroethan	0.117485	0.131705	0.01	12.1	25	112
74 1,1,2,2-Tetrachloroethan	0.12237	0.140296	0.05	14.6	25	115
76 1,2,3-Trichloropropane	0.152697	0.174989	0.1	14.6	50	115
83 1,3-Dichlorobenzene	1.274482	1.210392	0.5	-5	25	95
86 1,4-Dichlorobenzene	1.215657	1.189338	0.7	-2.2	25	98
$ 87 1,2-Dichlorobenzene-d4	0.586128	0.595045	0.06	1.5	25	102
89 1,2-Dichlorobenzene	1.008861	1.014373	0.4	0.5	25	101
90 1,2-Dibromo-3-chloroprop	0.036139	0.038078	0.01	5.4	50	105
91 1,2,4-Trichlorobenzene	0.733295	0.702502	0.3	-4.2	50	96
94 1,2,3-Trichlorobenzene	0.558976	0.532096	0.2	-4.8	50	95

Report Date: 23-Dec-2015 13:23:54 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B24.D
Lab Sample ID: VSTD005SM Client Sample ID: VSTD005SM
Injection Date: 22-Dec-2015 20:29:30 Dil. Factor: 1.0
Operator: ALL Inst. ID: msd8.i
Sample Info: 8122215B.b, VSTD005SM
Method: \\Organics\DD\chem\msd8.i\8122215B.b\TRACE-8e.m
Method Date: 23-Dec-2015 13:01:30 Quant Method: ISTD
Calib Date: 21-Dec-2015 14:32:30 Calib File: 81221D07.D
Sample Type: CCV ALS Bottle: 24
Cpnd Sublist: 2487.1.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1: DB-624 (0.25 mm) Detector: MS Scan
Data Reviewer: pap Review Date: 23-Dec-2015 13:02:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
1 Dichlorodifluoromethane	85.0	1.745	1.745	0.000	47515	5.0000	4.2198	
2 Chloromethane	50.0	1.922	1.934	-0.012	96388	5.0000	4.6949	
$ 3 Vinyl Chloride-d3	65.0	2.041	2.040	0.001	36047	5.0000	4.9723	
4 Vinyl Chloride	62.0	2.052	2.052	0.000	55596	5.0000	4.6258	
5 Bromomethane	94.0	2.396	2.407	-0.011	25008	5.0000	4.3204	
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	30488	5.0000	4.7286	
7 Chloroethane	64.0	2.502	2.514	-0.012	34832	5.0000	4.9156	
155 Vinyl bromide	106.0	2.715	2.715	0.000	34669	5.0000	4.6839	
8 Trichlorofluoromethane	101.0	2.774	2.786	-0.012	65531	5.0000	4.6442	
10 2-Chloropropane	43.0	3.212	3.224	-0.012	108241	5.0000	4.9565	
$ 12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	121469	5.0000	5.0823	
13 1,1-Dichloroethene	96.0	3.389	3.401	-0.012	54423	5.0000	5.3423	
11 1,1,2-Trichloro-1,2,2-trifluo	101.0	3.413	3.413	0.000	29652	5.0000	5.7887	
14 Acetone	43.0	3.437	3.437	0.000	63786	50.000	65.126	
15 Carbon Disulfide	76.0	3.685	3.685	0.000	171218	5.0000	5.2783	
16 Methyl Acetate	43.0	3.875	3.875	0.000	28014	5.0000	6.4136	
17 Methylene Chloride	84.0	4.005	4.005	0.000	55742	5.0000	5.4110	
18 1-Chloropropane	42.0	4.052	4.064	-0.012	90347	5.0000	4.8589	
20 Methyl tert-Butyl Ether	73.0	4.372	4.372	0.000	90086	5.0000	5.8387	
21 trans-1,2-Dichloroethene	96.0	4.372	4.383	-0.011	63492	5.0000	5.3849	
23 1,1-Dichloroethane	63.0	4.928	4.928	0.000	132323	5.0000	5.4294	
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	131141	50.000	62.426	
26 cis-1,2-Dichloroethene	96.0	5.697	5.697	0.000	68268	5.0000	5.4978	
28 2-Butanone	43.0	5.709	5.709	0.000	120342	50.000	68.223	
29 Bromochloromethane	128.0	6.005	6.016	-0.011	24487	5.0000	5.9472	
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	108978	5.0000	5.1376	
31 Chloroform	83.0	6.111	6.123	-0.012	123887	5.0000	5.0475	

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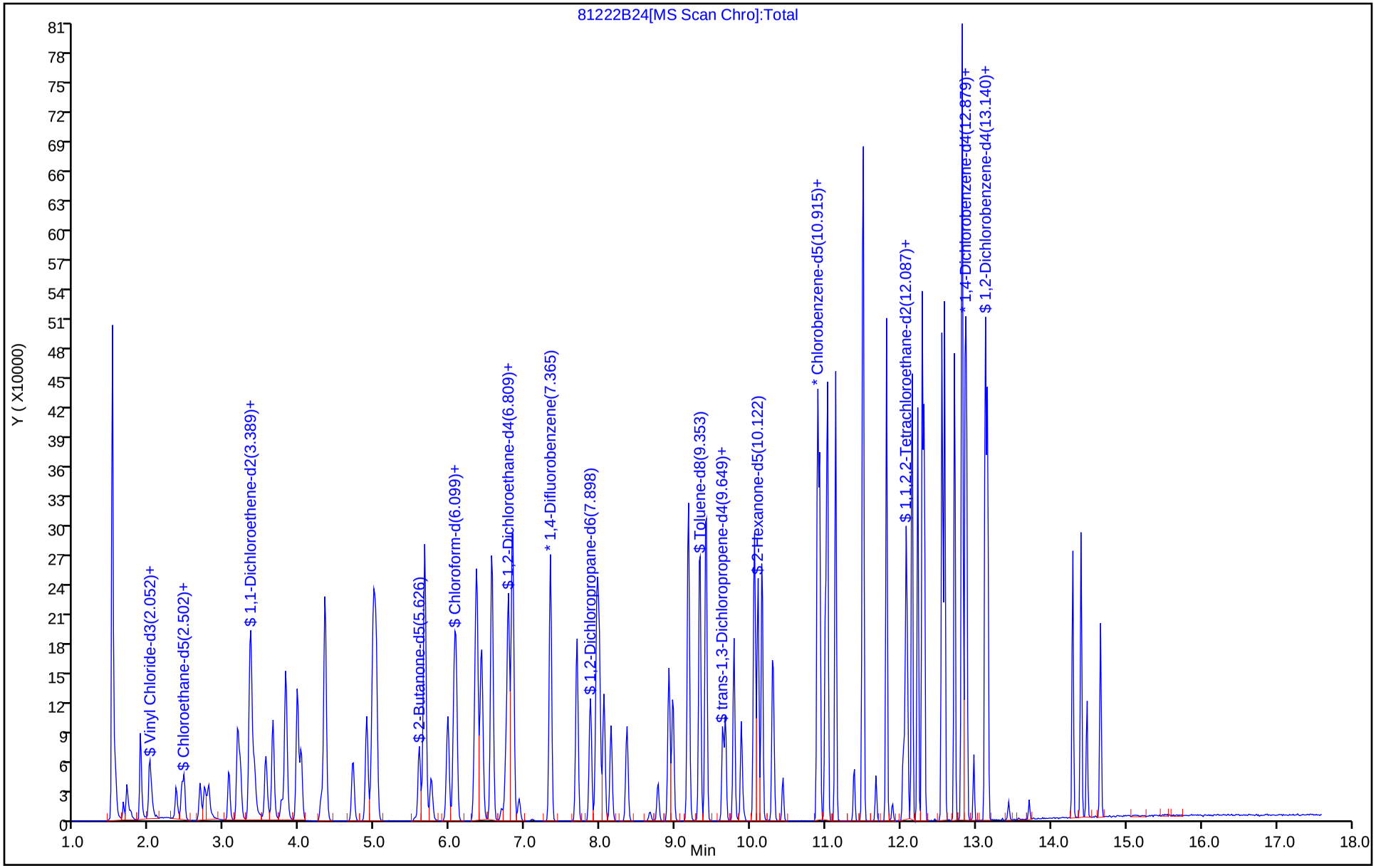
Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B24.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 1,1,1-Trichloroethane	97.0	6.371	6.371	0.000	96626	5.0000	5.1997	
35 1,1-Dichloropropene	75.0	6.584	6.584	0.000	85598	5.0000	5.4268	
32 Cyclohexane	56.0	6.454	6.454	0.000	128335	5.0000	4.6888	
34 Carbon Tetrachloride	117.0	6.596	6.596	0.000	84328	5.0000	5.1381	
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	51449	5.0000	5.7021	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	226019	5.0000	4.9092	
37 Benzene	78.0	6.857	6.868	-0.011	242978	5.0000	5.0996	
39 1,2-Dichloroethane	62.0	6.880	6.880	0.000	72067	5.0000	5.7946	
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	253912	5.0000	5.0000	
42 Trichloroethene	95.0	7.720	7.720	0.000	71106	5.0000	5.2272	
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	64685	5.0000	5.0506	
43 Methylcyclohexane	83.0	7.981	7.992	-0.011	99674	5.0000	5.1254	
45 1,2-Dichloropropane	63.0	8.016	8.016	0.000	73434	5.0000	5.3797	
156 2,3-dichloropropene	75.0	8.075	8.075	0.000	75000	5.0000	4.7911	
49 Bromodichloromethane	83.0	8.383	8.383	0.000	71953	5.0000	5.3074	
50 cis-1,3-Dichloropropene	75.0	8.986	8.998	-0.012	78575	5.0000	5.2223	
51 4-Methyl-2-pentanone	43.0	9.199	9.199	0.000	300312	50.000	64.147	
$ 52 Toluene-d8	98.0	9.353	9.353	0.000	214127	5.0000	4.9827	
53 Toluene	91.0	9.436	9.436	0.000	257318	5.0000	5.0995	
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.661	-0.012	46051	5.0000	4.9362	
55 trans-1,3-Dichloropropene	75.0	9.685	9.685	0.000	54502	5.0000	5.2120	
56 1,1,2-Trichloroethane	97.0	9.898	9.898	0.000	30273	5.0000	5.3862	
57 Tetrachloroethene	164.0	10.075	10.075	0.000	55757	5.0000	5.1457	
59 1,3-Dichloropropane	76.0	10.087	10.087	0.000	55114	5.0000	5.4629	
154 2-Bromo-1-chloropropane	77.0	9.803	9.803	0.000	54957	5.0000	5.1060	
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	81060	50.000	61.080	
60 2-Hexanone	43.0	10.170	10.170	0.000	206463	50.000	66.775	
61 Dibromochloromethane	129.0	10.335	10.335	0.000	40306	5.0000	5.5922	
62 1,2-Dibromoethane	107.0	10.454	10.454	0.000	30227	5.0000	5.6556	
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	210676	5.0000	5.0000	
64 Chlorobenzene	112.0	10.939	10.939	0.000	162934	5.0000	5.1461	
65 Ethylbenzene	91.0	11.045	11.045	0.000	281902	5.0000	5.0528	
67 m+p-Xylenes	106.0	11.152	11.152	0.000	116845	5.0000	5.1541	
68 o-Xylene	106.0	11.507	11.507	0.000	109139	5.0000	5.1250	
69 Styrene	104.0	11.519	11.519	0.000	155097	5.0000	5.2276	
70 Bromoform	173.0	11.684	11.684	0.000	20127	5.0000	5.3454	
71 Isopropylbenzene	105.0	11.826	11.826	0.000	272018	5.0000	5.0363	
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.039	12.039	0.000	27747	5.0000	5.6052	
74 1,1,2,2-Tetrachloroethane	83.0	12.063	12.063	0.000	29557	5.0000	5.7325	
76 1,2,3-Trichloropropane	75.0	12.110	12.110	0.000	36866	5.0000	5.7300	
157 2,3-dibromopropene	119.0	11.400	11.400	0.000	14987	5.0000	5.0052	
83 1,3-Dichlorobenzene	146.0	12.820	12.820	0.000	125560	5.0000	4.7486	
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	103735	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0	12.891	12.891	0.000	123376	5.0000	4.8918	
$ 87 1,2-Dichlorobenzene-d4	152.0	13.152	13.152	0.000	61727	5.0000	5.0761	
89 1,2-Dichlorobenzene	146.0	13.175	13.175	0.000	105226	5.0000	5.0273	
90 1,2-Dibromo-3-chloropropane	75.0	13.720	13.720	0.000	3950	5.0000	5.2682	
91 1,2,4-Trichlorobenzene	180.0	14.299	14.299	0.000	72874	5.0000	4.7900	
94 1,2,3-Trichlorobenzene	180.0	14.666	14.666	0.000	55197	5.0000	4.7596	

Report Date: 23-Dec-2015 13:23:54 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B24.D				
Injection Date:	22-Dec-2015 20:29:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VSTD005SM	Lab ID:	VSTD005SM		
Sample Info:	8122215B.b, VSTD005SM				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



TRACE-VOLATILE RAW QC DATA

BFB Data

Blank Data

Matrix Spike / Matrix Spike Duplicate-optional

Laboratory Control Sample Data-optional

BFB Data

BFBs are arranged in chronological order by instrument

-Reconstructed Total Ion Chromatogram

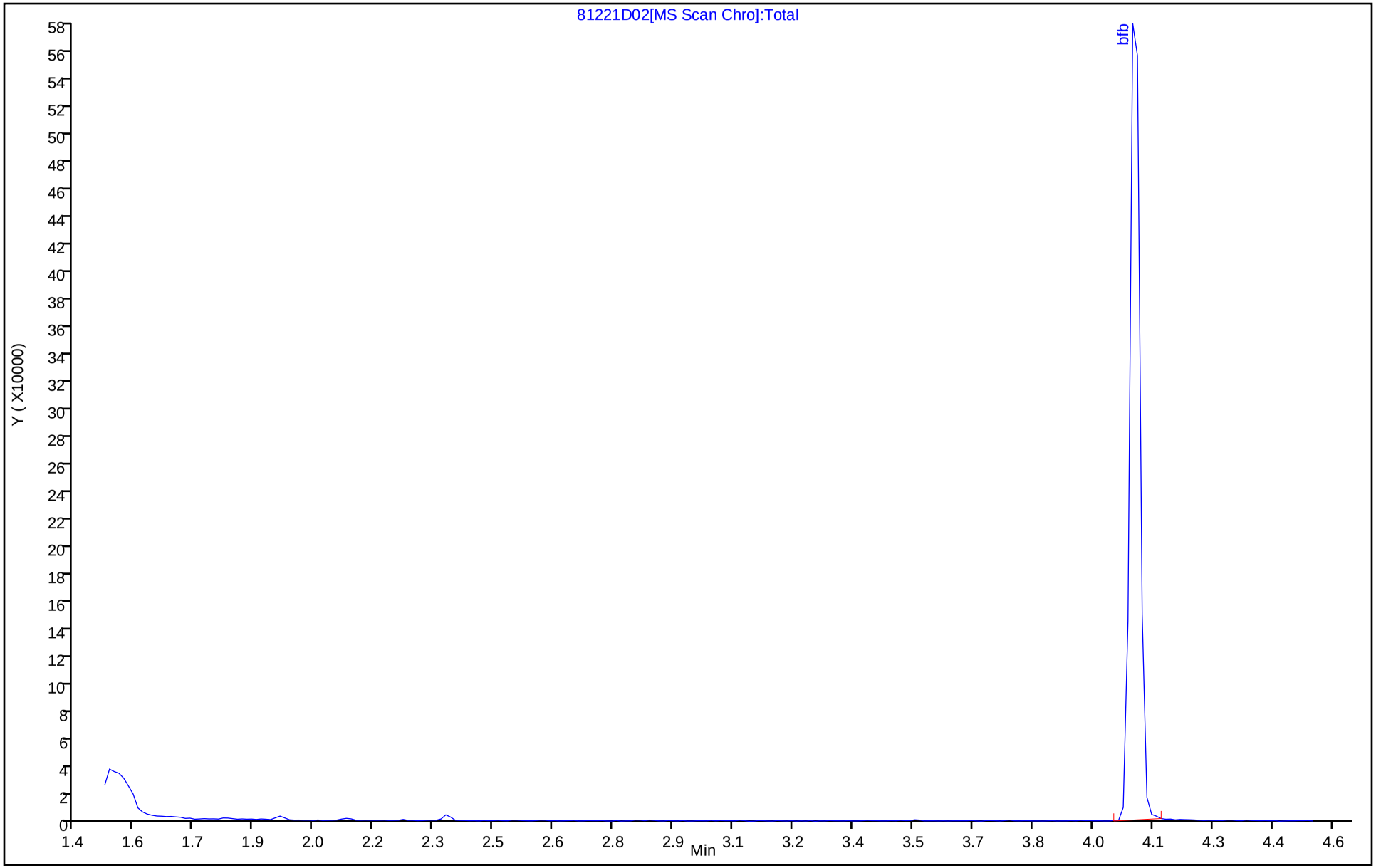
-Bar Graph Spectrum & Tabulated Relative Abundances

-Mass Listing

Report Date: 22-Dec-2015 08:28:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D02.D				
Injection Date:	21-Dec-2015 12:23:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	BFBRN	Lab ID:	BFBRN		
Sample Info:	8122115D.b, BFBRN				
Injection Vol.	2.00 uL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



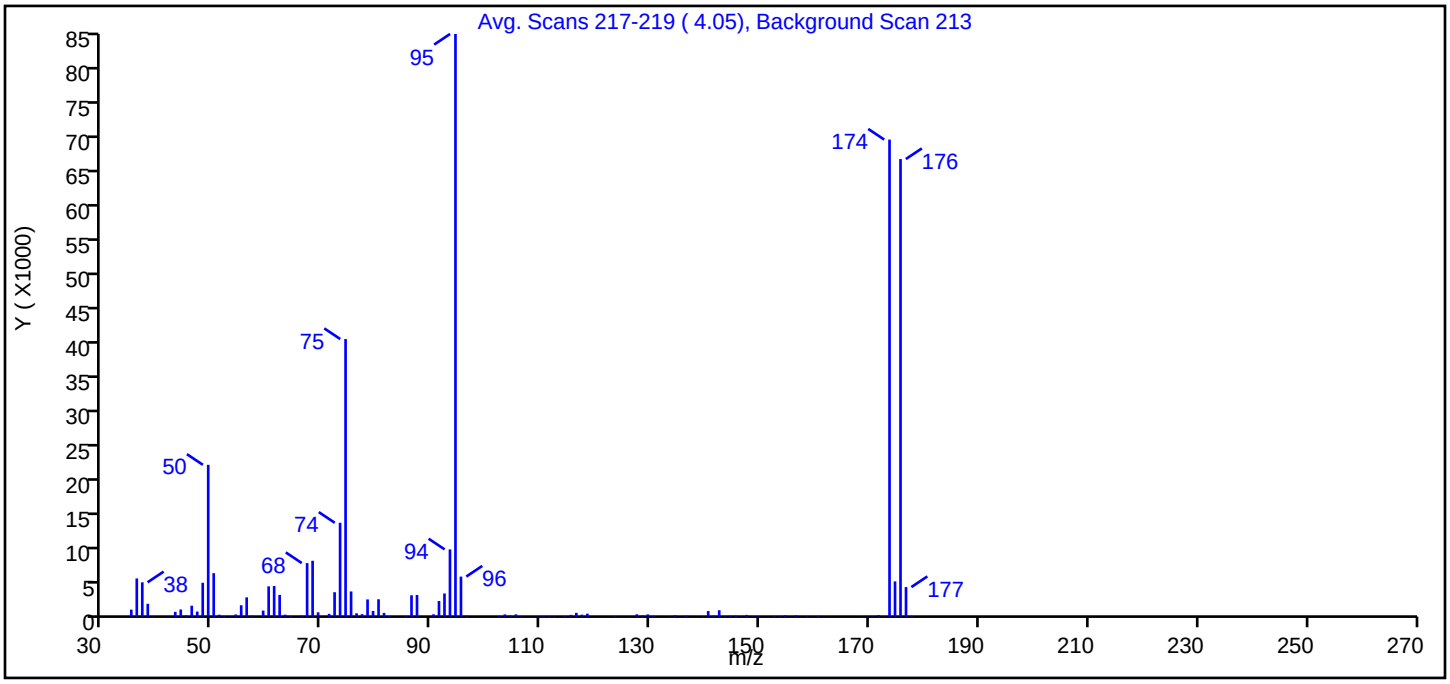
Report Date: 22-Dec-2015 08:28:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D02.D		
Injection Date:	21-Dec-2015 12:23:30	Inst. ID:	msd8.i
Client ID:	BFBRN	Lab ID:	BFBRN
Sample Info:	8122115D.b, BFBRN		
Injection Vol.	2.00 uL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 bfb



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.0
50	15.00 - 40.00% of mass 95	26.1
75	30.00 - 80.00% of mass 95	47.6
96	5.00 - 9.00% of mass 95	6.9
173	Less than 2.00% of mass 174	0.1 (0.1)
174	50.00 - 120.00% of mass 95	81.9
175	5.00 - 9.00% of mass 174	6.0 (7.4)
176	95.00 - 101.00% of mass 174	78.5 (95.9)
177	5.00 - 9.00% of mass 176	5.1 (6.5)

Report Date: 22-Dec-2015 08:28:58 AIM Revision: 1.0 26-May-2015 13:41:26

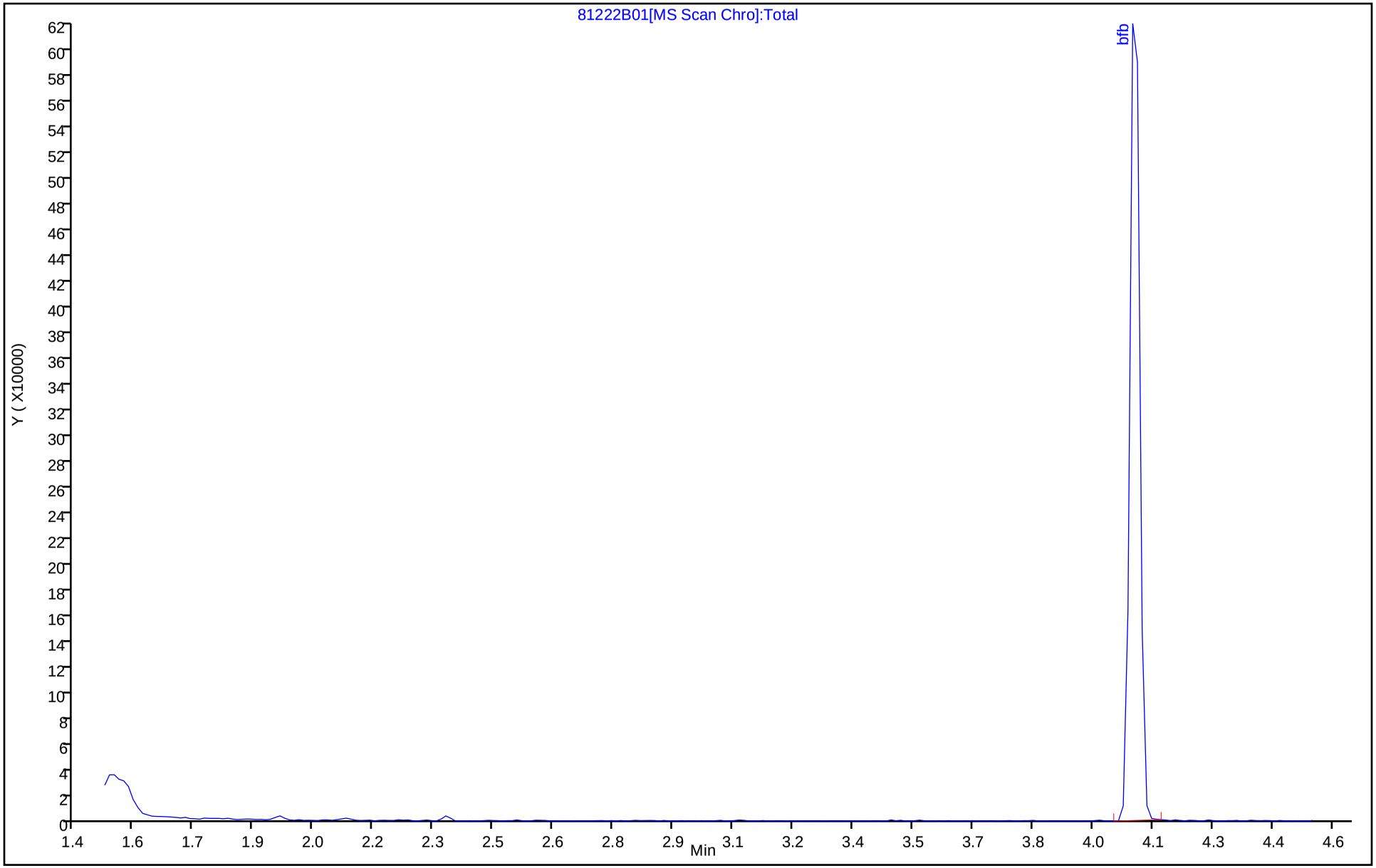
Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D02.D
Injection Date: 21-Dec-2015 12:23:30
Spectrum: Avg. Scans 217-219 (4.05), Background Scan 213
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	18	65.00	105	103.00	80	144.00	86
36.00	1016	67.00	145	104.00	321	145.00	107
37.00	5549	68.00	7786	105.00	156	146.00	142
38.00	4992	69.00	8123	106.00	332	147.00	32
39.00	1863	70.00	625	107.00	59	148.00	248
40.00	42	72.00	399	110.00	52	149.00	50
42.00	19	73.00	3546	111.00	75	150.00	86
43.00	29	74.00	13650	112.00	77	152.00	18
44.00	690	75.00	40376	113.00	55	153.00	83
45.00	1035	76.00	3660	115.00	74	154.00	56
46.00	168	77.00	483	116.00	252	155.00	186
47.00	1583	78.00	357	117.00	547	157.00	177
48.00	731	79.00	2500	118.00	285	158.00	21
49.00	4921	80.00	828	119.00	427	159.00	69
50.00	22080	81.00	2525	124.00	67	161.00	94
51.00	6317	82.00	539	125.00	17	169.00	24
52.00	275	83.00	88	127.00	24	170.00	48
53.00	74	86.00	98	128.00	339	171.00	58
54.00	38	87.00	3106	129.00	157	172.00	214
55.00	314	88.00	3142	130.00	322	173.00	52
56.00	1653	89.00	19	131.00	116	174.00	69392
57.00	2799	91.00	336	134.00	27	175.00	5120
58.00	123	92.00	2268	135.00	190	176.00	66560
60.00	876	93.00	3364	137.00	119	177.00	4295
61.00	4400	94.00	9776	140.00	38	178.00	112
62.00	4450	95.00	84760	141.00	804	269.00	17
63.00	3156	96.00	5822	142.00	103		
64.00	281	97.00	134	143.00	927		

Report Date: 23-Dec-2015 13:23:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B01.D				
Injection Date:	22-Dec-2015 09:59:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	BFBSK	Lab ID:	BFBSK		
Sample Info:	8122215B.b, BFBSK				
Injection Vol.	2.00 uL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



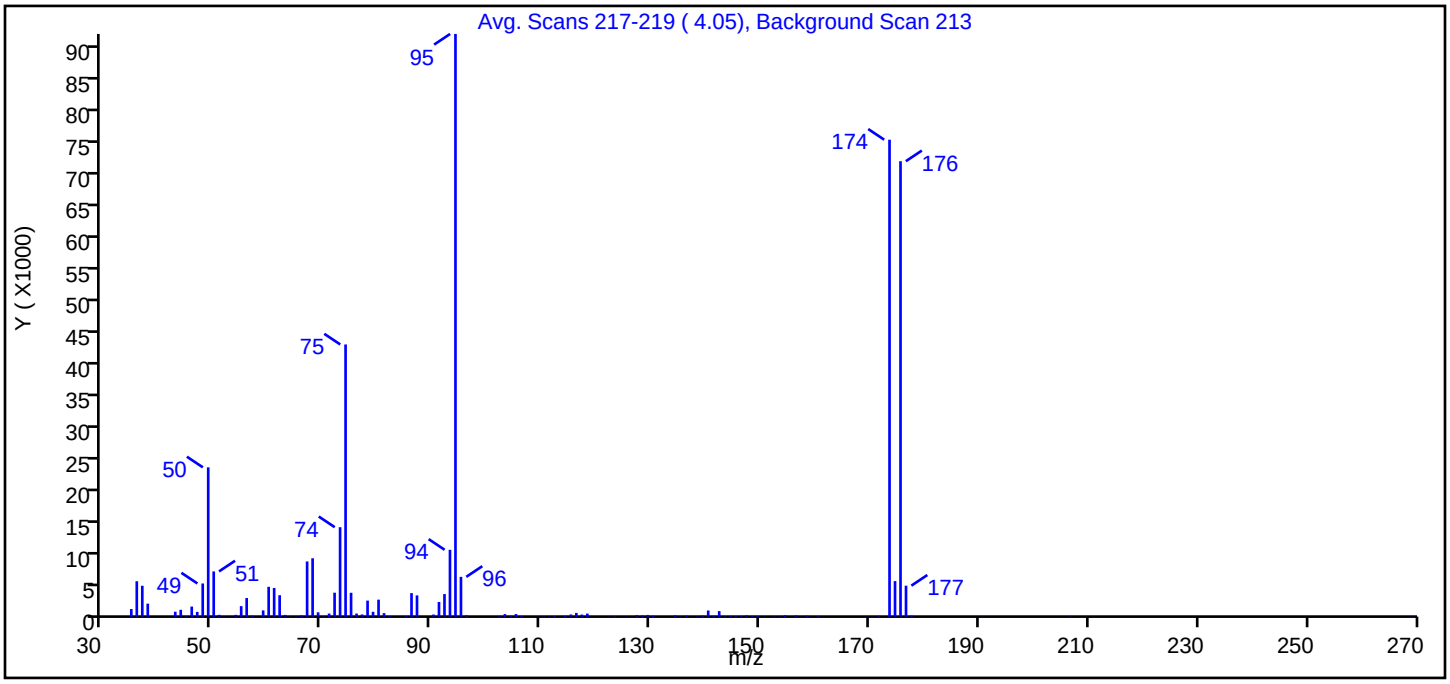
Report Date: 23-Dec-2015 13:23:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B01.D		
Injection Date:	22-Dec-2015 09:59:30	Inst. ID:	msd8.i
Client ID:	BFBSK	Lab ID:	BFBSK
Sample Info:	8122215B.b, BFBSK		
Injection Vol.	2.00 uL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 bfb



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.0
50	15.00 - 40.00% of mass 95	25.6
75	30.00 - 80.00% of mass 95	46.7
96	5.00 - 9.00% of mass 95	6.8
173	Less than 2.00% of mass 174	0.0 (0.0)
174	50.00 - 120.00% of mass 95	81.8
175	5.00 - 9.00% of mass 174	6.1 (7.4)
176	95.00 - 101.00% of mass 174	78.2 (95.5)
177	5.00 - 9.00% of mass 176	5.3 (6.8)

Data File: \\Organics\DD\chem\msd8.i\8122215B.b\81222B01.D
Injection Date: 22-Dec-2015 09:59:30
Spectrum: Avg. Scans 217-219 (4.05), Background Scan 213
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1185	68.00	8656	105.00	127	144.00	59
37.00	5553	69.00	9157	106.00	400	145.00	90
38.00	4840	70.00	675	107.00	96	146.00	81
39.00	2036	71.00	47	110.00	40	147.00	79
43.00	6	72.00	480	111.00	43	148.00	202
44.00	763	73.00	3752	112.00	47	149.00	71
45.00	1069	74.00	14034	113.00	89	150.00	111
46.00	77	75.00	42712	115.00	121	153.00	52
47.00	1577	76.00	3739	116.00	336	154.00	53
48.00	737	77.00	477	117.00	581	155.00	210
49.00	5200	78.00	334	118.00	320	157.00	182
50.00	23424	79.00	2511	119.00	473	158.00	18
51.00	7091	80.00	755	120.00	17	159.00	126
52.00	277	81.00	2661	123.00	21	161.00	99
53.00	23	82.00	548	124.00	52	170.00	19
55.00	274	83.00	78	126.00	19	171.00	24
56.00	1644	86.00	100	128.00	251	172.00	116
57.00	2917	87.00	3687	129.00	177	174.00	74848
58.00	134	88.00	3327	130.00	262	175.00	5574
59.00	16	91.00	324	131.00	113	176.00	71472
60.00	976	92.00	2294	135.00	194	177.00	4854
61.00	4677	93.00	3537	136.00	33	178.00	154
62.00	4494	94.00	10485	137.00	137	191.00	24
63.00	3356	95.00	91448	139.00	49	207.00	45
64.00	268	96.00	6240	140.00	142	269.00	21
65.00	36	97.00	209	141.00	958		
66.00	54	103.00	57	142.00	117		
67.00	174	104.00	391	143.00	862		

Blank Data

Blanks are arranged by type of blank
(Method, Storage, Instrument)

Listed in Chronological Order by instrument.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKRN

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QQ92723-001

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D08

% Solids: _____ Date Received: _____

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: _____ Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.18	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKRN

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QQ92723-001

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D08

% Solids: _____ Date Received: _____

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: _____ Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m, p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKRN

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29
Analytical Method: Trace VOA Level: TRACE
Matrix: Water Lab Sample ID: QQ92723-001
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D08
% Solids: Date Received:
GC Column: DB-624 ID: 0.25 (mm) Date Extracted:
Extract Concentrated: (Y/N) Date Analyzed: 12/21/2015
Soil Aliquot (VOA): (uL) Extract Volume: (uL)
Heated Purge: (Y/N) N Extraction Type: PT
Purge Volume: 25.0 (mL) Injection Volume:
Cleanup Types: pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	1.56	6.3	J
02	363-72-4	Benzene, pentafluoro-	6.40	3.8	NJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Report Date: 22-Dec-2015 08:29:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D08.D
Lab Sample ID: VBLKRN Client Sample ID: VBLKRN
Injection Date: 21-Dec-2015 15:11:30 Dil. Factor: 1.0
Operator: ALL Inst. ID: msd8.i
Sample Info: 8122115D.b, VBLKRN
Method: \\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m
Method Date: 21-Dec-2015 15:00:30 Quant Method: ISTD
Calib Date: 21-Dec-2015 14:32:30 Calib File: 81221D07.D
Sample Type: BLANK ALS Bottle: 8
Cpnd Sublist: 2487.1.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1: DB-624 (0.25 mm) Detector: MS Scan
Data Reviewer: all Review Date: 22-Dec-2015 08:11:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
1 Dichlorodifluoromethane	85.0		1.745		ND			
2 Chloromethane	50.0		1.922		ND			
$ 3 Vinyl Chloride-d3	65.0	2.040	2.040	0.000	48176	6.3624	6.3623	
4 Vinyl Chloride	62.0		2.052		ND			
5 Bromomethane	94.0		2.395		ND			
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	40085	5.9523	5.9522	
7 Chloroethane	64.0		2.502		ND			
155 Vinyl bromide	106.0		2.715		ND			
8 Trichlorofluoromethane	101.0		2.786		ND			
10 2-Chloropropane	43.0		3.224		ND			
$ 12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	117736	4.7164	4.7163	
13 1,1-Dichloroethene	96.0		3.389		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.413		ND			
14 Acetone	43.0		3.449		ND			
15 Carbon Disulfide	76.0		3.685		ND			
16 Methyl Acetate	43.0		3.875		ND			
17 Methylene Chloride	84.0		4.005		ND			
18 1-Chloropropane	42.0		4.052		ND			
20 Methyl tert-Butyl Ether	73.0		4.372		ND			
21 trans-1,2-Dichloroethene	96.0		4.383		ND			
23 1,1-Dichloroethane	63.0		4.928		ND			
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	111133	50.649	50.649	
26 cis-1,2-Dichloroethene	96.0		5.697		ND			
28 2-Butanone	43.0		5.709		ND			
29 Bromochloromethane	128.0		6.004		ND			
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	119432	5.3906	5.3906	Q
31 Chloroform	83.0	6.111	6.111	0.000	4508	0.17585	0.17580	Qe

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
33 1,1,1-Trichloroethane	97.0		6.371		ND			
35 1,1-Dichloropropene	75.0		6.584		ND			
32 Cyclohexane	56.0		6.442		ND			
34 Carbon Tetrachloride	117.0		6.596		ND			
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	51750	5.4912	5.4911	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	267360	5.8728	5.8727	
37 Benzene	78.0		6.856		ND			
39 1,2-Dichloroethane	62.0		6.880		ND			
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	265207	5.0000	5.0000	
42 Trichloroethene	95.0		7.720		ND			
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	68634	5.4195	5.4195	
43 Methylcyclohexane	83.0		7.981		ND			
45 1,2-Dichloropropane	63.0		8.016		ND			
156 2,3-dichloropropene	75.0		8.075		ND			
49 Bromodichloromethane	83.0		8.383		ND			
50 cis-1,3-Dichloropropene	75.0		8.986		ND			
51 4-Methyl-2-pentanone	43.0		9.199		ND			
$ 52 Toluene-d8	98.0	9.353	9.341	0.012	243371	5.7272	5.7272	
53 Toluene	91.0		9.436		ND			
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	47684	5.1691	5.1690	
55 trans-1,3-Dichloropropene	75.0		9.684		ND			
56 1,1,2-Trichloroethane	97.0		9.897		ND			
57 Tetrachloroethene	164.0		10.075		ND			
59 1,3-Dichloropropane	76.0		10.087		ND			
154 2-Bromo-1-chloropropane	77.0		9.803		ND			
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	59704	45.497	45.497	
60 2-Hexanone	43.0		10.170		ND			
61 Dibromochloromethane	129.0		10.323		ND			
62 1,2-Dibromoethane	107.0		10.454		ND			
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	208320	5.0000	5.0000	
64 Chlorobenzene	112.0		10.939		ND			
65 Ethylbenzene	91.0		11.045		ND			
67 m+p-Xylenes	106.0		11.152		ND			
68 o-Xylene	106.0		11.507		ND			
69 Styrene	104.0		11.519		ND			
70 Bromoform	173.0		11.684		ND			
71 Isopropylbenzene	105.0		11.826		ND			
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.051	12.039	0.012	24810	5.0685	5.0685	
74 1,1,2,2-Tetrachloroethane	83.0		12.075		ND			
76 1,2,3-Trichloropropane	75.0		12.110		ND			
157 2,3-dibromopropene	119.0		11.400		ND			
83 1,3-Dichlorobenzene	146.0		12.820		ND			
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	94978	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0		12.891		ND			
$ 87 1,2-Dichlorobenzene-d4	152.0	13.152	13.163	-0.011	60406	5.4254	5.4254	
89 1,2-Dichlorobenzene	146.0		13.175		ND			
90 1,2-Dibromo-3-chloropropane	75.0		13.719		ND			
91 1,2,4-Trichlorobenzene	180.0		14.299		ND			
94 1,2,3-Trichlorobenzene	180.0		14.666		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D08.D		
Lab Sample ID:	VBLKRN	Client Sample ID:	VBLKRN
Injection Date:	21-Dec-2015 15:11:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, VBLKRN		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	BLANK	ALS Bottle:	8
Cpnd Sublist:	2487.1.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	22-Dec-2015 08:11:30

Tentative Identified Compound Results

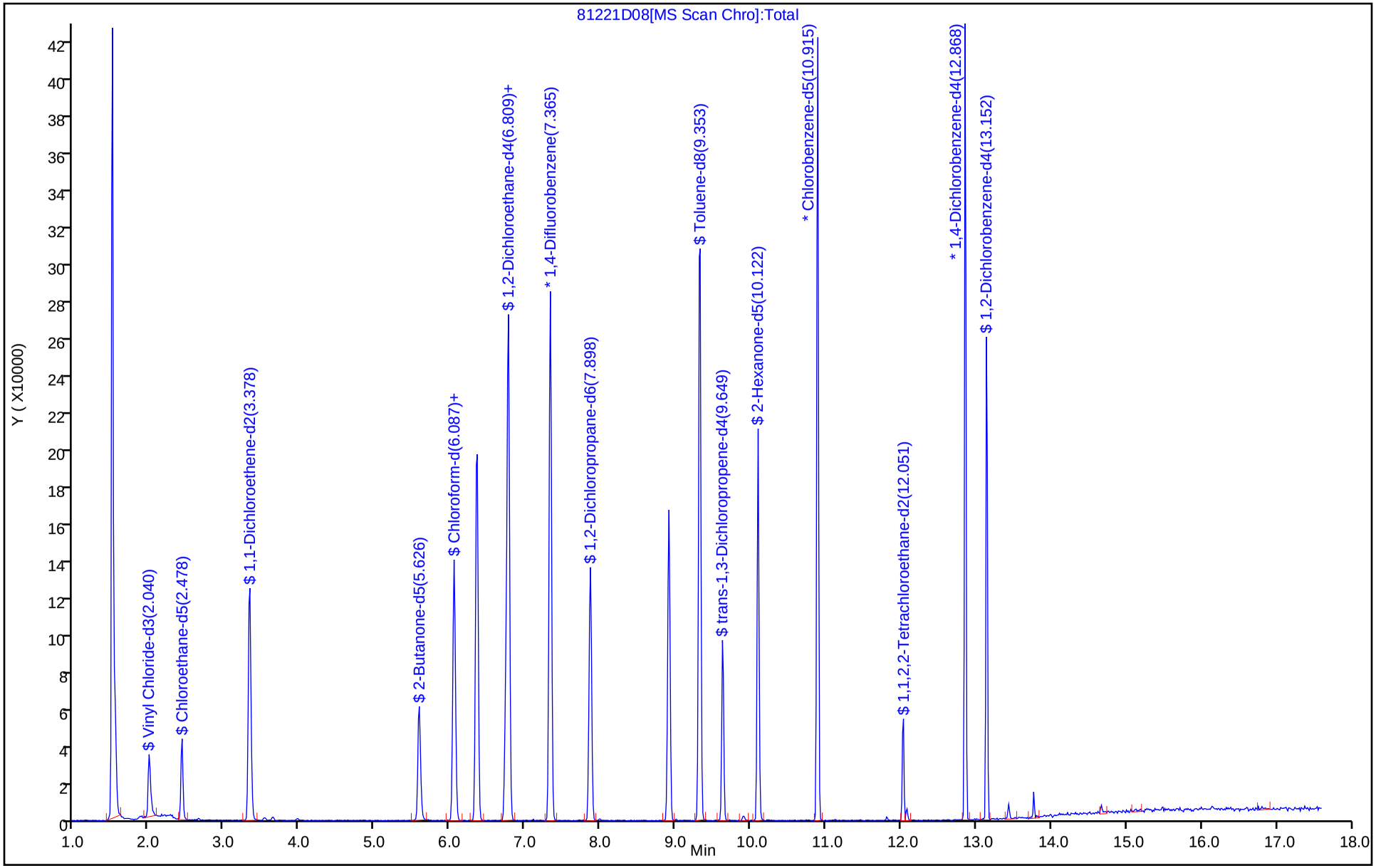
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
1.555	810452	6.2926	6.2926	41				
363-72-4	Benzene, pentafluoro-							
6.395	493443	3.8312	3.8312	41	95	37052	C6HF5	168

Quant. Compounds	RT	Response	Amount ug/L
* 41 1,4-Difluorobenzene	7.365	643976	5.0000

Report Date: 22-Dec-2015 08:29:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D08.D				
Injection Date:	21-Dec-2015 15:11:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VBLKRN	Lab ID:	VBLKRN		
Sample Info:	8122115D.b, VBLKRN				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

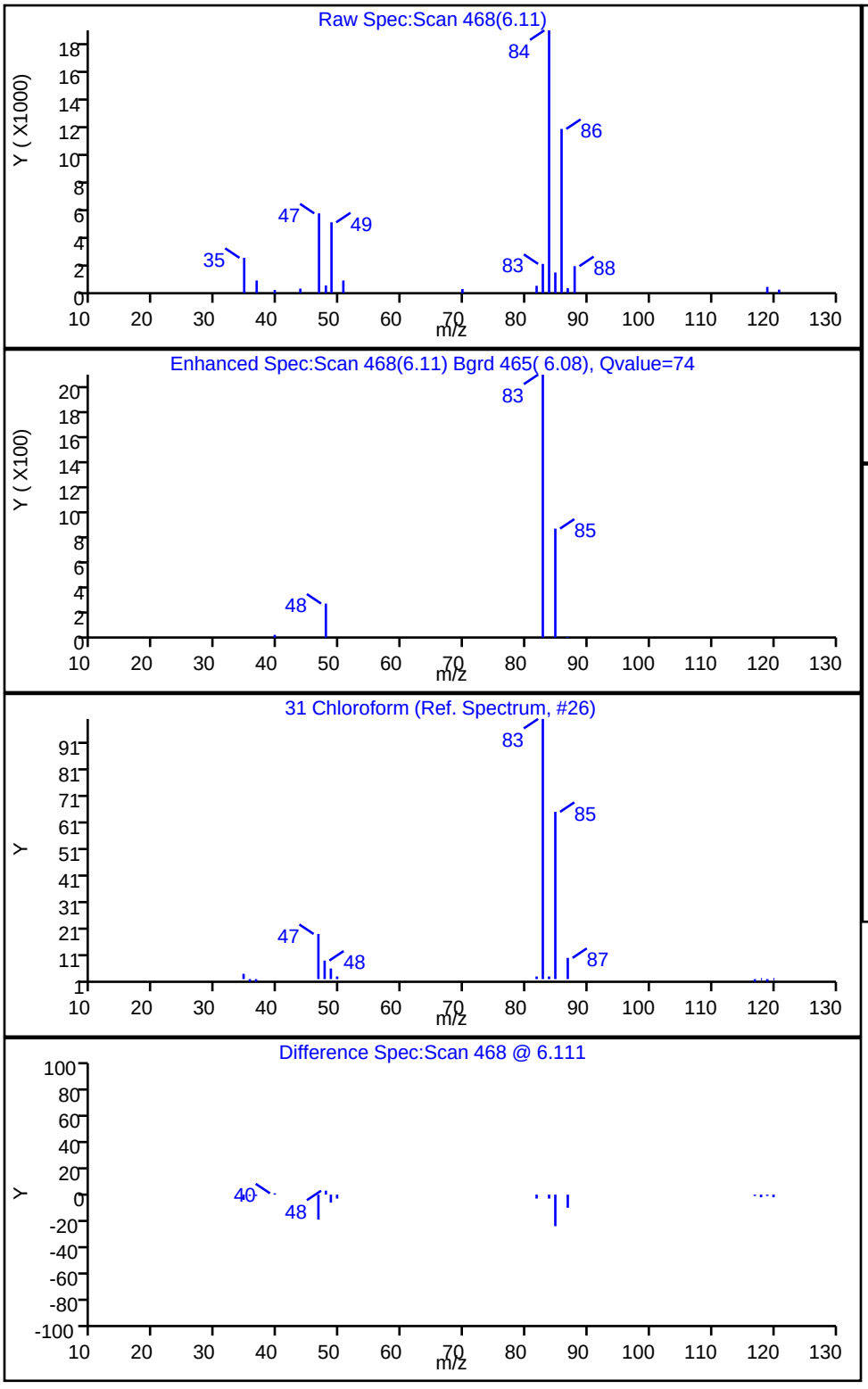


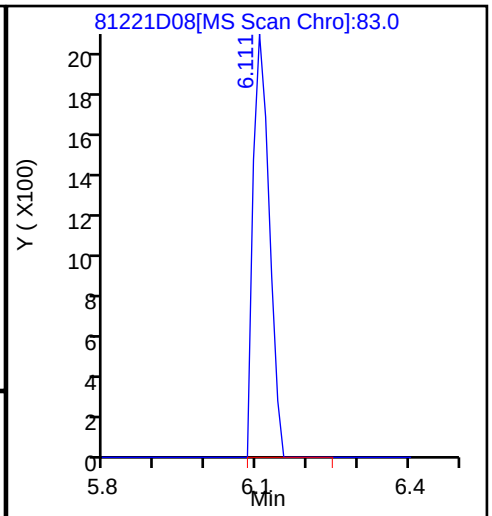
Report Date: 22-Dec-2015 08:29:00 AIM Revision: 1.0 26-May-2015 13:41:26

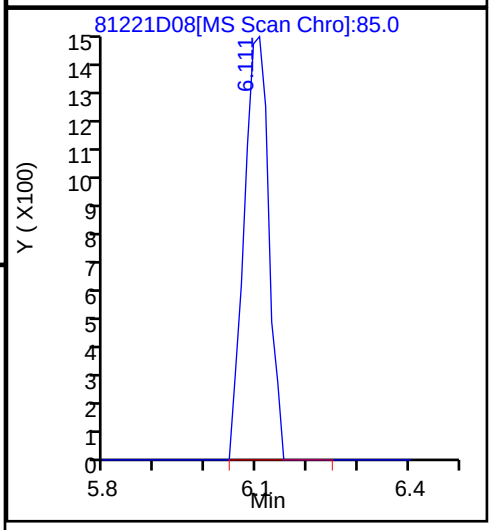
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D08.D		
Injection Date:	21-Dec-2015 15:11:30	Inst. ID:	msd8.i
Client ID:	VBLKRN	Lab ID:	VBLKRN
Sample Info:	8122115D.b, VBLKRN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

31 Chloroform







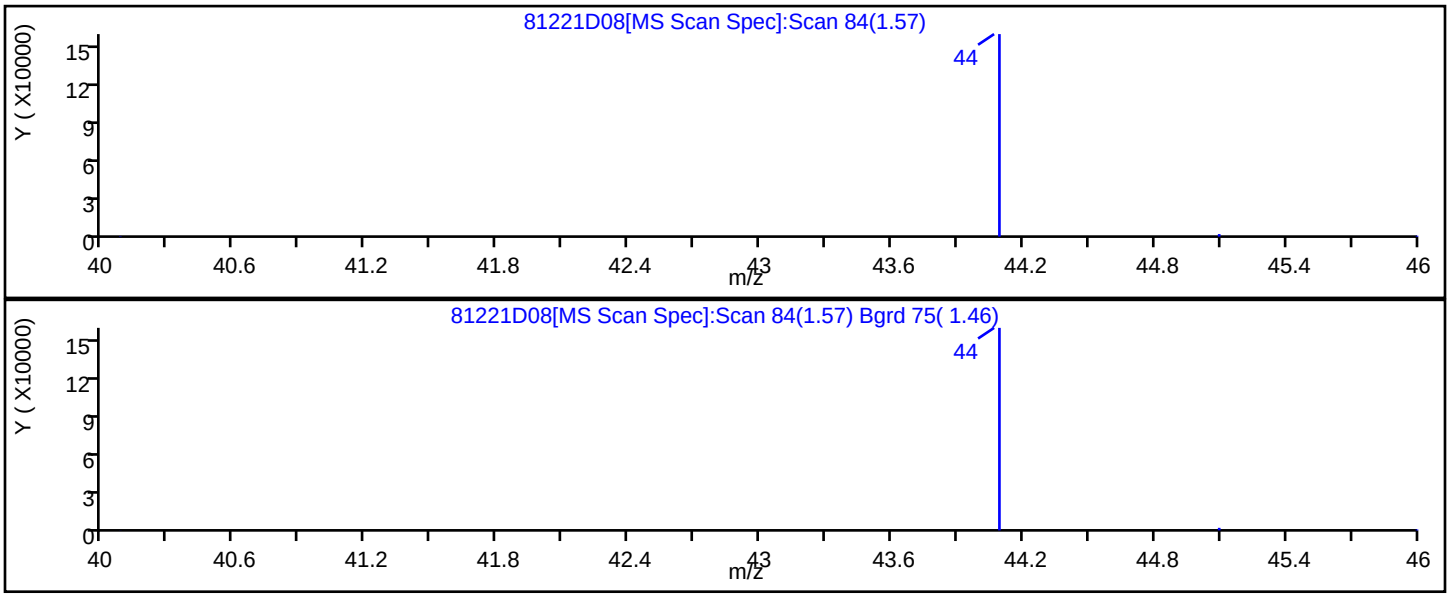
Report Date: 22-Dec-2015 08:29:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D08.D		
Injection Date:	21-Dec-2015 15:11:30	Inst. ID:	msd8.i
Client ID:	VBLKRN	Lab ID:	VBLKRN
Sample Info:	8122115D.b, VBLKRN		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 1.555

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



Report Date: 22-Dec-2015 08:29:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D08.D

Injection Date: 21-Dec-2015 15:11:30 Inst. ID: msd8.i

Client ID: VBLKRN Lab ID: VBLKRN

Sample Info: 8122115D.b, VBLKRN

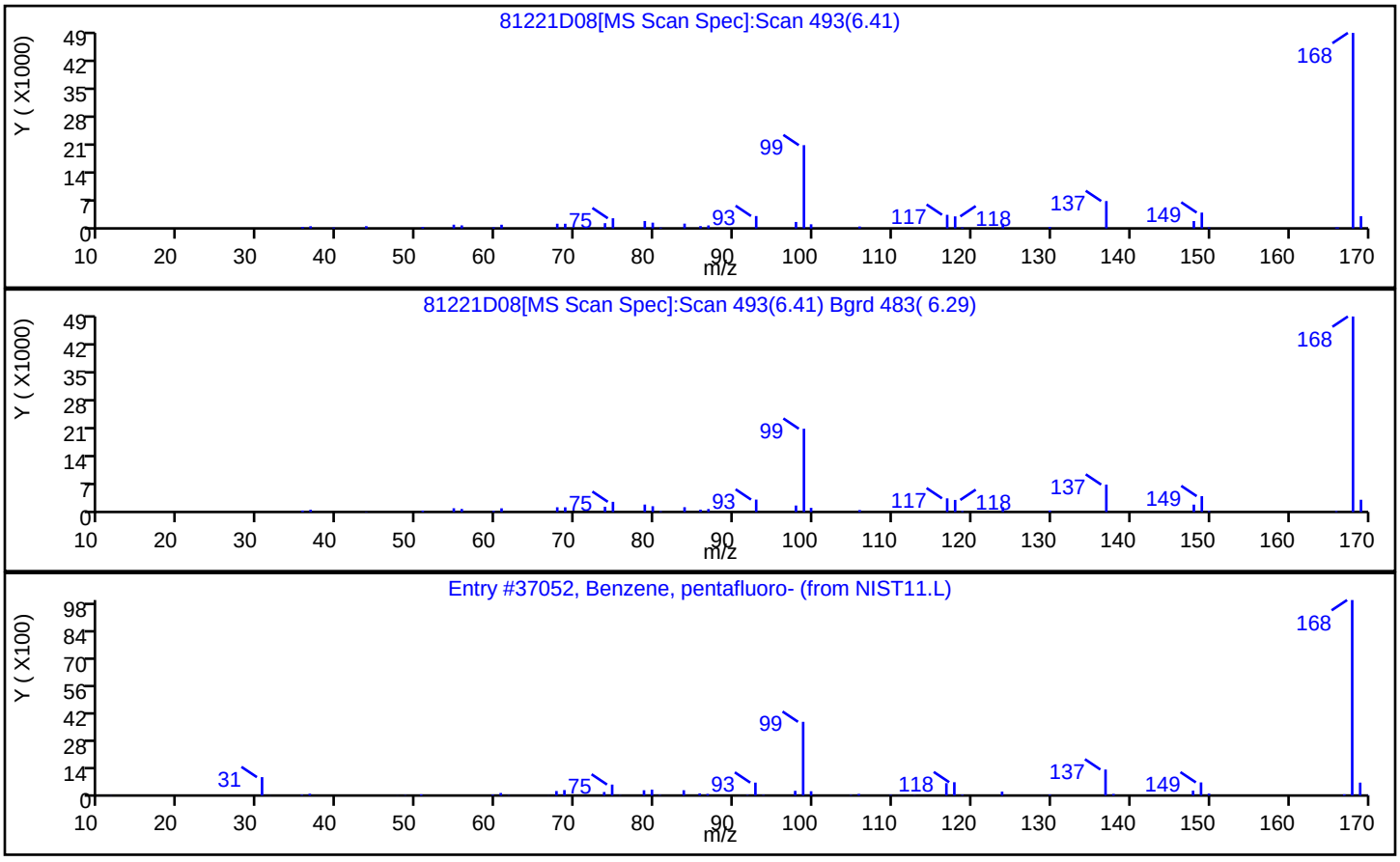
Purge Vol. 25 ML Dil. Factor: 1.0

Operator: ALL

Column1: DB-624 (0.25 mm) Detector: MS Scan

TIC @ 6.395

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, pentafluoro-	363-72-4	NIST11	37052	C6HF5	168	95



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKSK

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QQ92794-001

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222B03

% Solids: _____ Date Received: _____

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: _____ Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKSK

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QQ92794-001

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222B03

% Solids: _____ Date Received: _____

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: _____ Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m, p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKSK

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29
Analytical Method: Trace VOA Level: TRACE
Matrix: Water Lab Sample ID: QQ92794-001
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222B03
% Solids: Date Received:
GC Column: DB-624 ID: 0.25 (mm) Date Extracted:
Extract Concentrated: (Y/N) Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL) Extract Volume: (uL)
Heated Purge: (Y/N) N Extraction Type: PT
Purge Volume: 25.0 (mL) Injection Volume:
Cleanup Types: pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B03.D		
Lab Sample ID:	VBLKSK	Client Sample ID:	VBLKSK
Injection Date:	22-Dec-2015 11:03:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122215B.b, VBLKSK		
Method:	\\Organics\DD\chem\msd8.i\8122215B.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:45:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	BLANK	ALS Bottle:	3
Cpnd Sublist:	2487.1.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	22-Dec-2015 16:51:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
1 Dichlorodifluoromethane	85.0		1.745		ND			
2 Chloromethane	50.0		1.922		ND			
$ 3 Vinyl Chloride-d3	65.0	2.041	2.040	0.001	47491	5.9305	5.9304	
4 Vinyl Chloride	62.0		2.052		ND			
5 Bromomethane	94.0		2.395		ND			
$ 6 Chloroethane-d5	69.0	2.478	2.478	0.000	37833	5.3120	5.3120	
7 Chloroethane	64.0		2.502		ND			
155 Vinyl bromide	106.0		2.715		ND			
8 Trichlorofluoromethane	101.0		2.786		ND			
10 2-Chloropropane	43.0		3.212		ND			
$ 12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	110071	4.1692	4.1692	
13 1,1-Dichloroethene	96.0		3.389		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.401		ND			
14 Acetone	43.0		3.437		ND			
15 Carbon Disulfide	76.0		3.685		ND			
16 Methyl Acetate	43.0		3.874		ND			
17 Methylene Chloride	84.0		4.005		ND			
18 1-Chloropropane	42.0		4.052		ND			
20 Methyl tert-Butyl Ether	73.0		4.371		ND			
21 trans-1,2-Dichloroethene	96.0		4.371		ND			
23 1,1-Dichloroethane	63.0		4.928		ND			
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	123978	53.427	53.427	
26 cis-1,2-Dichloroethene	96.0		5.697		ND			
28 2-Butanone	43.0		5.697		ND			
29 Bromochloromethane	128.0		6.004		ND			
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	116215	4.9599	4.9598	Q
31 Chloroform	83.0		6.111		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
33 1,1,1-Trichloroethane	97.0		6.371		ND			
35 1,1-Dichloropropene	75.0		6.584		ND			
32 Cyclohexane	56.0		6.454		ND			
34 Carbon Tetrachloride	117.0		6.596		ND			
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	51227	5.1398	5.1397	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	253014	5.1258	5.1257	
37 Benzene	78.0		6.856		ND			
39 1,2-Dichloroethane	62.0		6.868		ND			
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	280477	5.0000	5.0000	
42 Trichloroethene	95.0		7.720		ND			
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	69672	5.0740	5.0739	
43 Methylcyclohexane	83.0		7.981		ND			
45 1,2-Dichloropropane	63.0		8.016		ND			
156 2,3-dichloropropene	75.0		8.075		ND			
49 Bromodichloromethane	83.0		8.383		ND			
50 cis-1,3-Dichloropropene	75.0		8.986		ND			
51 4-Methyl-2-pentanone	43.0		9.199		ND			
$ 52 Toluene-d8	98.0	9.342	9.341	0.001	238064	5.1670	5.1669	
53 Toluene	91.0		9.436		ND			
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	50999	5.0988	5.0988	
55 trans-1,3-Dichloropropene	75.0		9.684		ND			
56 1,1,2-Trichloroethane	97.0		9.897		ND			
57 Tetrachloroethene	164.0		10.075		ND			
59 1,3-Dichloropropane	76.0		10.087		ND			
154 2-Bromo-1-chloropropane	77.0		9.803		ND			
$ 58 2-Hexanone-d5	63.0	10.123	10.122	0.000	68991	48.488	48.488	Q
60 2-Hexanone	43.0		10.170		ND			
61 Dibromochloromethane	129.0		10.335		ND			
62 1,2-Dibromoethane	107.0		10.454		ND			
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	225873	5.0000	5.0000	
64 Chlorobenzene	112.0		10.939		ND			
65 Ethylbenzene	91.0		11.045		ND			
67 m+p-Xylenes	106.0		11.152		ND			
68 o-Xylene	106.0		11.507		ND			
69 Styrene	104.0		11.519		ND			
70 Bromoform	173.0		11.684		ND			
71 Isopropylbenzene	105.0		11.826		ND			
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.039	12.051	-0.012	25926	4.8849	4.8849	
74 1,1,2,2-Tetrachloroethane	83.0		12.063		ND			
76 1,2,3-Trichloropropane	75.0		12.110		ND			
157 2,3-dibromopropene	119.0		11.400		ND			
83 1,3-Dichlorobenzene	146.0		12.820		ND			
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	105336	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0		12.891		ND			
$ 87 1,2-Dichlorobenzene-d4	152.0	13.152	13.151	0.001	63311	5.1272	5.1271	
89 1,2-Dichlorobenzene	146.0		13.175		ND			
90 1,2-Dibromo-3-chloropropane	75.0		13.719		ND			
91 1,2,4-Trichlorobenzene	180.0		14.299		ND			
94 1,2,3-Trichlorobenzene	180.0		14.666		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B03.D		
Lab Sample ID:	VBLKSK	Client Sample ID:	VBLKSK
Injection Date:	22-Dec-2015 11:03:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122215B.b, VBLKSK		
Method:	\\Organics\DD\chem\msd8.i\8122215B.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:45:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	BLANK	ALS Bottle:	3
Cpnd Sublist:	2487.1.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	22-Dec-2015 16:51:30

Tentative Identified Compound Results

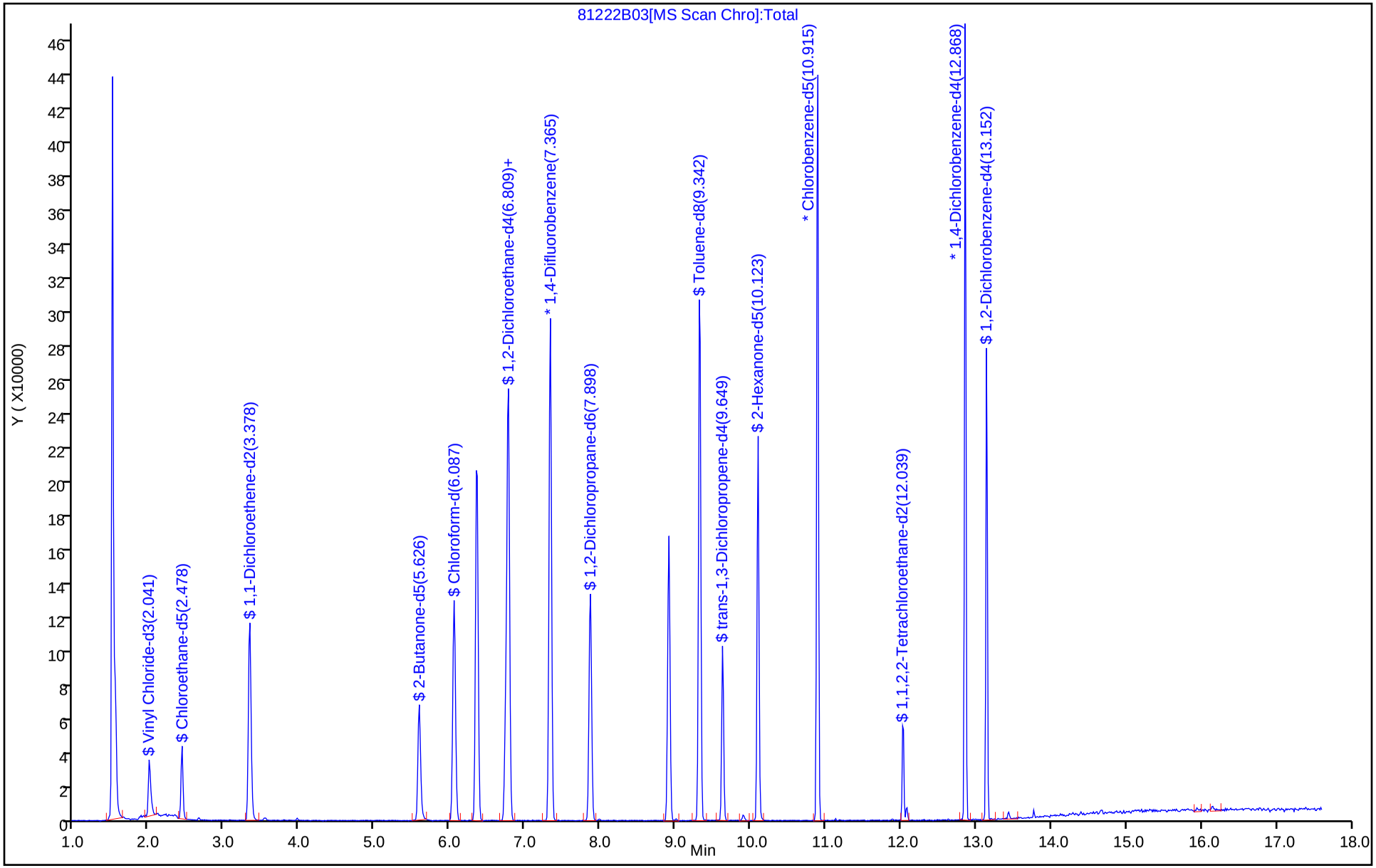
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 23-Dec-2015 13:23:48 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B03.D				
Injection Date:	22-Dec-2015 11:03:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VBLKSK	Lab ID:	VBLKSK		
Sample Info:	8122215B.b, VBLKSK				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-008

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222B10

% Solids: _____ Date Received: _____

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QL16010-008

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222B10

% Solids: _____ Date Received: _____

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m, p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLK01

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29
Analytical Method: Trace VOA Level: TRACE
Matrix: Water Lab Sample ID: QL16010-008
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222B10
% Solids: Date Received:
GC Column: DB-624 ID: 0.25 (mm) Date Extracted:
Extract Concentrated: (Y/N) Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL) Extract Volume: (uL)
Heated Purge: (Y/N) N Extraction Type: PT
Purge Volume: 25.0 (mL) Injection Volume:
Cleanup Types: pH: 2 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B10.D		
Lab Sample ID:	QL16010-008	Client Sample ID:	VHBLK01
Injection Date:	22-Dec-2015 14:17:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122215B.b, QL16010-008		
Misc. Info:	HB		
Method:	\\Organics\DD\chem\msd8.i\8122215B.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:45:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	10
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	22-Dec-2015 17:01:30

	Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
	1 Dichlorodifluoromethane	85.0		1.745		ND			
	2 Chloromethane	50.0		1.922		ND			
$	3 Vinyl Chloride-d3	65.0	2.041	2.040	0.001	45939	5.7814	5.7814	
	4 Vinyl Chloride	62.0		2.052		ND			
	5 Bromomethane	94.0		2.395		ND			
$	6 Chloroethane-d5	69.0	2.478	2.478	0.000	35072	4.9628	4.9627	
	7 Chloroethane	64.0		2.502		ND			
	8 Trichlorofluoromethane	101.0		2.786		ND			
$	12 1,1-Dichloroethene-d2	63.0	3.378	3.378	0.000	111878	4.2708	4.2707	
	13 1,1-Dichloroethene	96.0		3.389		ND			
	11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.401		ND			
	14 Acetone	43.0		3.437		ND			
	15 Carbon Disulfide	76.0		3.685		ND			
	16 Methyl Acetate	43.0		3.874		ND			
	17 Methylene Chloride	84.0		4.005		ND			
	20 Methyl tert-Butyl Ether	73.0		4.371		ND			
	21 trans-1,2-Dichloroethene	96.0		4.371		ND			
	23 1,1-Dichloroethane	63.0		4.928		ND			
$	25 2-Butanone-d5	46.0	5.626	5.626	0.000	124027	53.865	53.865	
	26 cis-1,2-Dichloroethene	96.0		5.697		ND			
	28 2-Butanone	43.0		5.697		ND			
	29 Bromochloromethane	128.0		6.004		ND			
$	30 Chloroform-d	84.0	6.088	6.087	0.001	120446	5.1806	5.1805	Q
	31 Chloroform	83.0		6.111		ND			
	33 1,1,1-Trichloroethane	97.0		6.371		ND			
	32 Cyclohexane	56.0		6.454		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
34 Carbon Tetrachloride	117.0		6.596		ND			
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	50874	5.1442	5.1442	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	259180	5.3630	5.3629	
37 Benzene	78.0		6.856		ND			
39 1,2-Dichloroethane	62.0		6.868		ND			
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	278304	5.0000	5.0000	
42 Trichloroethene	95.0		7.720		ND			
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	69351	5.1586	5.1586	
43 Methylcyclohexane	83.0		7.981		ND			
45 1,2-Dichloropropane	63.0		8.016		ND			
49 Bromodichloromethane	83.0		8.383		ND			
50 cis-1,3-Dichloropropene	75.0		8.986		ND			
51 4-Methyl-2-pentanone	43.0		9.199		ND			
$ 52 Toluene-d8	98.0	9.353	9.341	0.012	235313	5.2165	5.2164	
53 Toluene	91.0		9.436		ND			
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	48275	4.9297	4.9296	
55 trans-1,3-Dichloropropene	75.0		9.684		ND			
56 1,1,2-Trichloroethane	97.0		9.897		ND			
57 Tetrachloroethene	164.0		10.075		ND			
$ 58 2-Hexanone-d5	63.0	10.123	10.122	0.001	69317	49.759	49.759	Q
60 2-Hexanone	43.0		10.170		ND			
61 Dibromochloromethane	129.0		10.335		ND			
62 1,2-Dibromoethane	107.0		10.454		ND			
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	221144	5.0000	5.0000	
64 Chlorobenzene	112.0		10.939		ND			
65 Ethylbenzene	91.0		11.045		ND			
67 m+p-Xylenes	106.0		11.152		ND			
68 o-Xylene	106.0		11.507		ND			
69 Styrene	104.0		11.519		ND			
70 Bromoform	173.0		11.684		ND			
71 Isopropylbenzene	105.0		11.826		ND			
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.051	12.051	0.000	26489	5.0977	5.0977	
74 1,1,2,2-Tetrachloroethane	83.0		12.063		ND			
83 1,3-Dichlorobenzene	146.0		12.820		ND			
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	105440	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0		12.891		ND			
$ 87 1,2-Dichlorobenzene-d4	152.0	13.152	13.151	0.001	65065	5.2640	5.2640	
89 1,2-Dichlorobenzene	146.0		13.175		ND			
90 1,2-Dibromo-3-chloropropane	75.0		13.719		ND			
91 1,2,4-Trichlorobenzene	180.0		14.299		ND			
94 1,2,3-Trichlorobenzene	180.0		14.666		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B10.D		
Lab Sample ID:	QL16010-008	Client Sample ID:	VHBLK01
Injection Date:	22-Dec-2015 14:17:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122215B.b, QL16010-008		
Misc. Info:	HB		
Method:	\\Organics\DD\chem\msd8.i\8122215B.b\TRACE-8.m		
Method Date:	22-Dec-2015 10:45:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	10
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	22-Dec-2015 17:01:30

Tentative Identified Compound Results

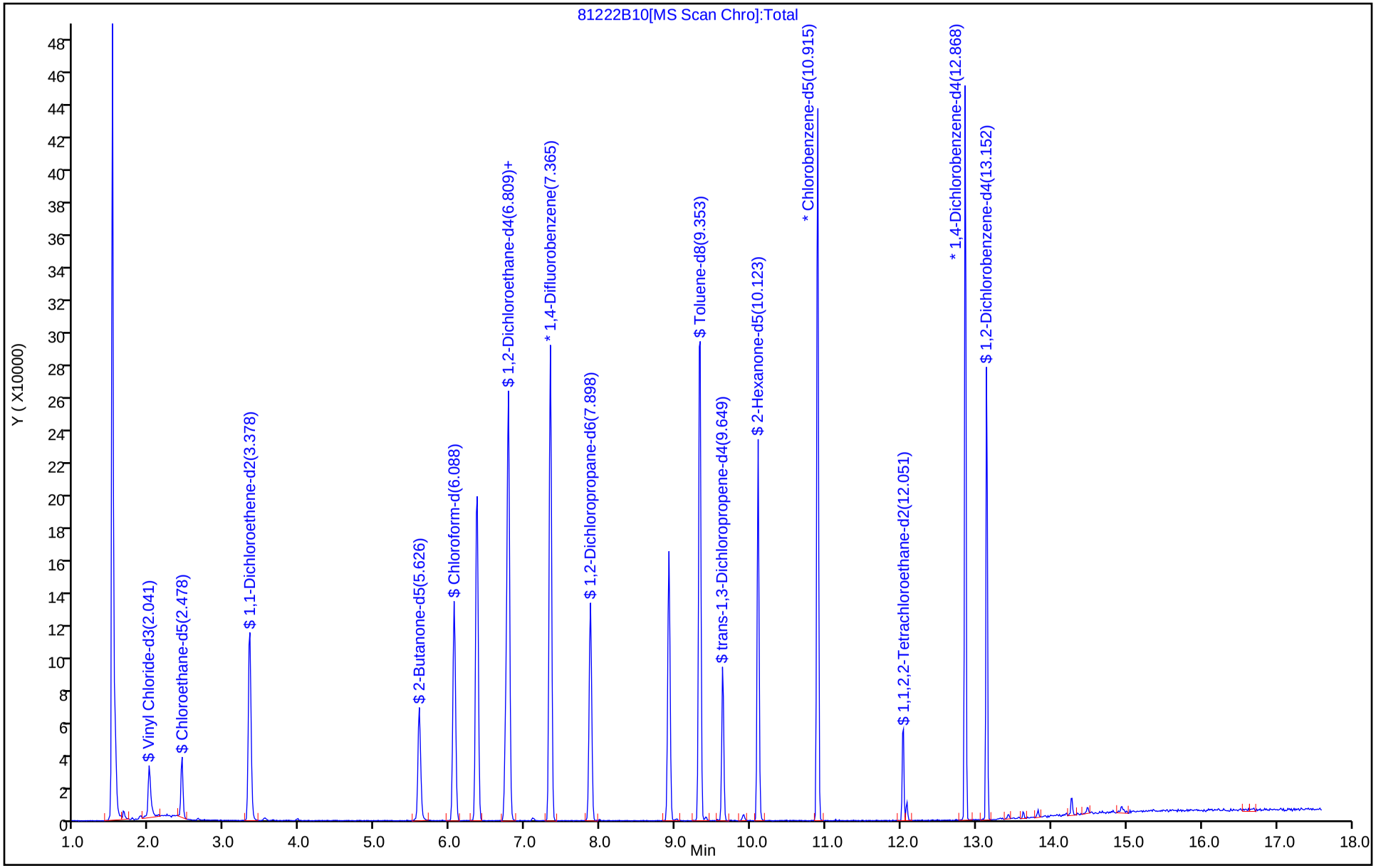
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 23-Dec-2015 13:23:51 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215B.b\81222B10.D				
Injection Date:	22-Dec-2015 14:17:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VHBLK01	Lab ID:	QL16010-008		
Sample Info:	8122215B.b, QL16010-008				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VIBLK01

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QQ92723-018

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D21

% Solids: _____ Date Received: _____

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: _____ Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.25	JB
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VIBLK01

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: Trace VOA Level: TRACE

Matrix: Water Lab Sample ID: QQ92723-018

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D21

% Solids: _____ Date Received: _____

GC Column: DB-624 ID: 0.25 (mm) Date Extracted: _____

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/21/2015

Extract Concentrated: (Y/N) _____ Extract Volume: _____ (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: _____ (uL)

Purge Volume: 25.0 (mL) pH: _____ Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m, p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VIBLK01

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29
Analytical Method: Trace VOA Level: TRACE
Matrix: Water Lab Sample ID: QQ92723-018
Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81221D21
% Solids: Date Received:
GC Column: DB-624 ID: 0.25 (mm) Date Extracted:
Extract Concentrated: (Y/N) Date Analyzed: 12/21/2015
Soil Aliquot (VOA): (uL) Extract Volume: (uL)
Heated Purge: (Y/N) N Extraction Type: PT
Purge Volume: 25.0 (mL) Injection Volume:
Cleanup Types: pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	105-67-9	Phenol, 2,4-dimethyl-	14.29	1.0	NJ
02	571-58-4	Naphthalene, 1,4-dimethyl-	16.64	0.63	NJ
03	575-43-9	Naphthalene, 1,6-dimethyl-	16.69	0.56	NJ
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Report Date: 22-Dec-2015 08:29:03 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D21.D
Lab Sample ID: VIBLK01 Client Sample ID: VIBLK01
Injection Date: 21-Dec-2015 21:09:30 Dil. Factor: 1.0
Operator: ALL Inst. ID: msd8.i
Sample Info: 8122115D.b, VIBLK01
Method: \\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m
Method Date: 21-Dec-2015 15:00:30 Quant Method: ISTD
Calib Date: 21-Dec-2015 14:32:30 Calib File: 81221D07.D
Sample Type: Client ALS Bottle: 21
Cpnd Sublist: 2487.1.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1: DB-624 (0.25 mm) Detector: MS Scan
Data Reviewer: all Review Date: 22-Dec-2015 08:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
1 Dichlorodifluoromethane	85.0		1.745		ND			
2 Chloromethane	50.0		1.922		ND			
$ 3 Vinyl Chloride-d3	65.0	2.041	2.040	0.001	48767	6.7265	6.7264	R
4 Vinyl Chloride	62.0		2.052		ND			
5 Bromomethane	94.0		2.395		ND			
$ 6 Chloroethane-d5	69.0	2.467	2.478	-0.011	36789	5.7055	5.7054	
7 Chloroethane	64.0		2.502		ND			
155 Vinyl bromide	106.0		2.715		ND			
8 Trichlorofluoromethane	101.0		2.786		ND			
10 2-Chloropropane	43.0		3.224		ND			
$ 12 1,1-Dichloroethene-d2	63.0	3.366	3.378	-0.012	120195	5.0287	5.0287	
13 1,1-Dichloroethene	96.0		3.389		ND			
11 1,1,2-Trichloro-1,2,2-trifluo	101.0		3.413		ND			
14 Acetone	43.0		3.449		ND			
15 Carbon Disulfide	76.0		3.685		ND			
16 Methyl Acetate	43.0		3.875		ND			
17 Methylene Chloride	84.0		4.005		ND			
18 1-Chloropropane	42.0		4.052		ND			
20 Methyl tert-Butyl Ether	73.0		4.372		ND			
21 trans-1,2-Dichloroethene	96.0		4.383		ND			
23 1,1-Dichloroethane	63.0		4.928		ND			
$ 25 2-Butanone-d5	46.0	5.626	5.626	0.000	117724	56.035	56.035	
26 cis-1,2-Dichloroethene	96.0		5.697		ND			
28 2-Butanone	43.0		5.709		ND			
29 Bromochloromethane	128.0		6.004		ND			
$ 30 Chloroform-d	84.0	6.087	6.087	0.000	116101	5.4730	5.4730	Q
31 Chloroform	83.0	6.111	6.111	0.000	6178	0.25169	0.25160	Qe

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
33 1,1,1-Trichloroethane	97.0		6.371		ND			
35 1,1-Dichloropropene	75.0		6.584		ND			
32 Cyclohexane	56.0		6.442		ND			
34 Carbon Tetrachloride	117.0		6.596		ND			
$ 38 1,2-Dichloroethane-d4	65.0	6.774	6.774	0.000	49008	5.4312	5.4312	
$ 36 Benzene-d6	84.0	6.809	6.809	0.000	264084	6.0827	6.0826	
37 Benzene	78.0		6.856		ND			
39 1,2-Dichloroethane	62.0		6.880		ND			
* 41 1,4-Difluorobenzene	114.0	7.365	7.365	0.000	253929	5.0000	5.0000	
42 Trichloroethene	95.0		7.720		ND			
$ 44 1,2-Dichloropropane-d6	67.0	7.898	7.898	0.000	67969	5.6278	5.6278	
43 Methylcyclohexane	83.0		7.981		ND			
45 1,2-Dichloropropane	63.0		8.016		ND			
156 2,3-dichloropropene	75.0		8.075		ND			
49 Bromodichloromethane	83.0		8.383		ND			
50 cis-1,3-Dichloropropene	75.0		8.986		ND			
51 4-Methyl-2-pentanone	43.0		9.199		ND			
$ 52 Toluene-d8	98.0	9.353	9.341	0.012	235989	5.8234	5.8233	
53 Toluene	91.0		9.436		ND			
$ 54 trans-1,3-Dichloropropene-d4	79.0	9.649	9.649	0.000	46061	5.2358	5.2357	
55 trans-1,3-Dichloropropene	75.0		9.684		ND			
56 1,1,2-Trichloroethane	97.0		9.897		ND			
57 Tetrachloroethene	164.0		10.075		ND			
59 1,3-Dichloropropane	76.0		10.087		ND			
154 2-Bromo-1-chloropropane	77.0		9.803		ND			
$ 58 2-Hexanone-d5	63.0	10.122	10.122	0.000	65607	52.424	52.424	
60 2-Hexanone	43.0		10.170		ND			
61 Dibromochloromethane	129.0		10.323		ND			
62 1,2-Dibromoethane	107.0		10.454		ND			
* 63 Chlorobenzene-d5	117.0	10.915	10.915	0.000	198667	5.0000	5.0000	
64 Chlorobenzene	112.0		10.939		ND			
65 Ethylbenzene	91.0		11.045		ND			
67 m+p-Xylenes	106.0		11.152		ND			
68 o-Xylene	106.0		11.507		ND			
69 Styrene	104.0		11.519		ND			
70 Bromoform	173.0		11.684		ND			
71 Isopropylbenzene	105.0		11.826		ND			
$ 72 1,1,2,2-Tetrachloroethane-d2	84.0	12.051	12.039	0.012	24780	5.3084	5.3083	
74 1,1,2,2-Tetrachloroethane	83.0		12.075		ND			
76 1,2,3-Trichloropropane	75.0		12.110		ND			
157 2,3-dibromopropene	119.0		11.400		ND			
83 1,3-Dichlorobenzene	146.0		12.820		ND			
* 85 1,4-Dichlorobenzene-d4	152.0	12.868	12.868	0.000	94936	5.0000	5.0000	
86 1,4-Dichlorobenzene	146.0		12.891		ND			
$ 87 1,2-Dichlorobenzene-d4	152.0	13.164	13.163	0.001	64558	5.8009	5.8009	
89 1,2-Dichlorobenzene	146.0		13.175		ND			
90 1,2-Dibromo-3-chloropropane	75.0		13.719		ND			
91 1,2,4-Trichlorobenzene	180.0		14.299		ND			
94 1,2,3-Trichlorobenzene	180.0		14.666		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D21.D		
Lab Sample ID:	VIBLK01	Client Sample ID:	VIBLK01
Injection Date:	21-Dec-2015 21:09:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8122115D.b, VIBLK01		
Method:	\\Organics\DD\chem\msd8.i\8122115D.b\TRACE-8.m		
Method Date:	21-Dec-2015 15:00:30	Quant Method:	ISTD
Calib Date:	21-Dec-2015 14:32:30	Calib File:	81221D07.D
Sample Type:	Client	ALS Bottle:	21
Cpnd Sublist:	2487.1.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	22-Dec-2015 08:19:30

Tentative Identified Compound Results

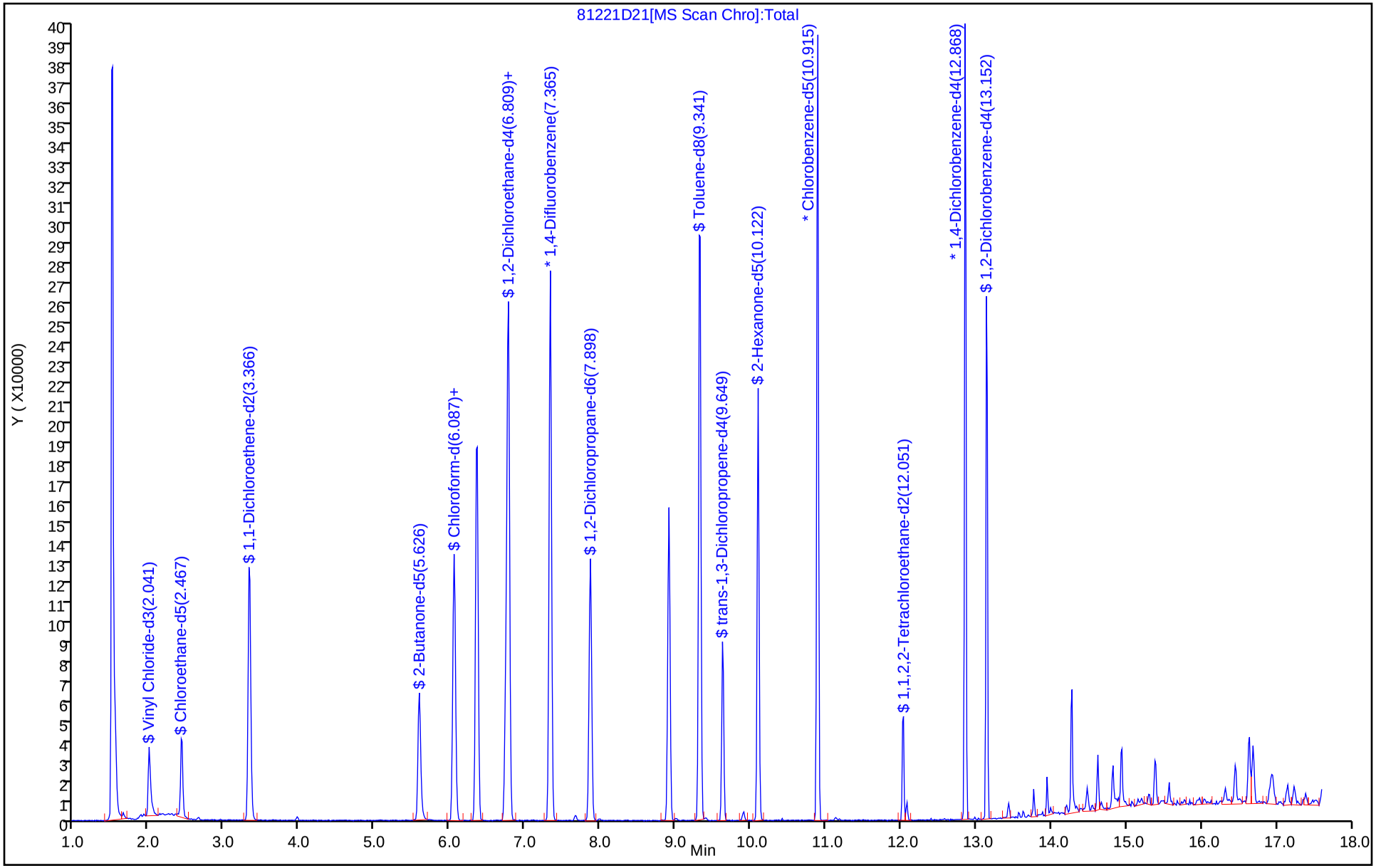
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
105-67-9 Phenol, 2,4-dimethyl-								
14.288	119779	1.0247	1.0247	85	96	9936	C8H10O	122
571-58-4 Naphthalene, 1,4-dimethyl-								
16.642	73595	0.62958	0.62958	85	96	28497	C12H12	156
575-43-9 Naphthalene, 1,6-dimethyl-								
16.690	65062	0.55658	0.55658	85	98	28499	C12H12	156

Quant. Compounds	RT	Response	Amount ug/L
* 85 1,4-Dichlorobenzene-d4	12.868	584483	5.0000

Report Date: 22-Dec-2015 08:29:03 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D21.D				
Injection Date:	21-Dec-2015 21:09:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VIBLK01	Lab ID:	VIBLK01		
Sample Info:	8122115D.b, VIBLK01				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

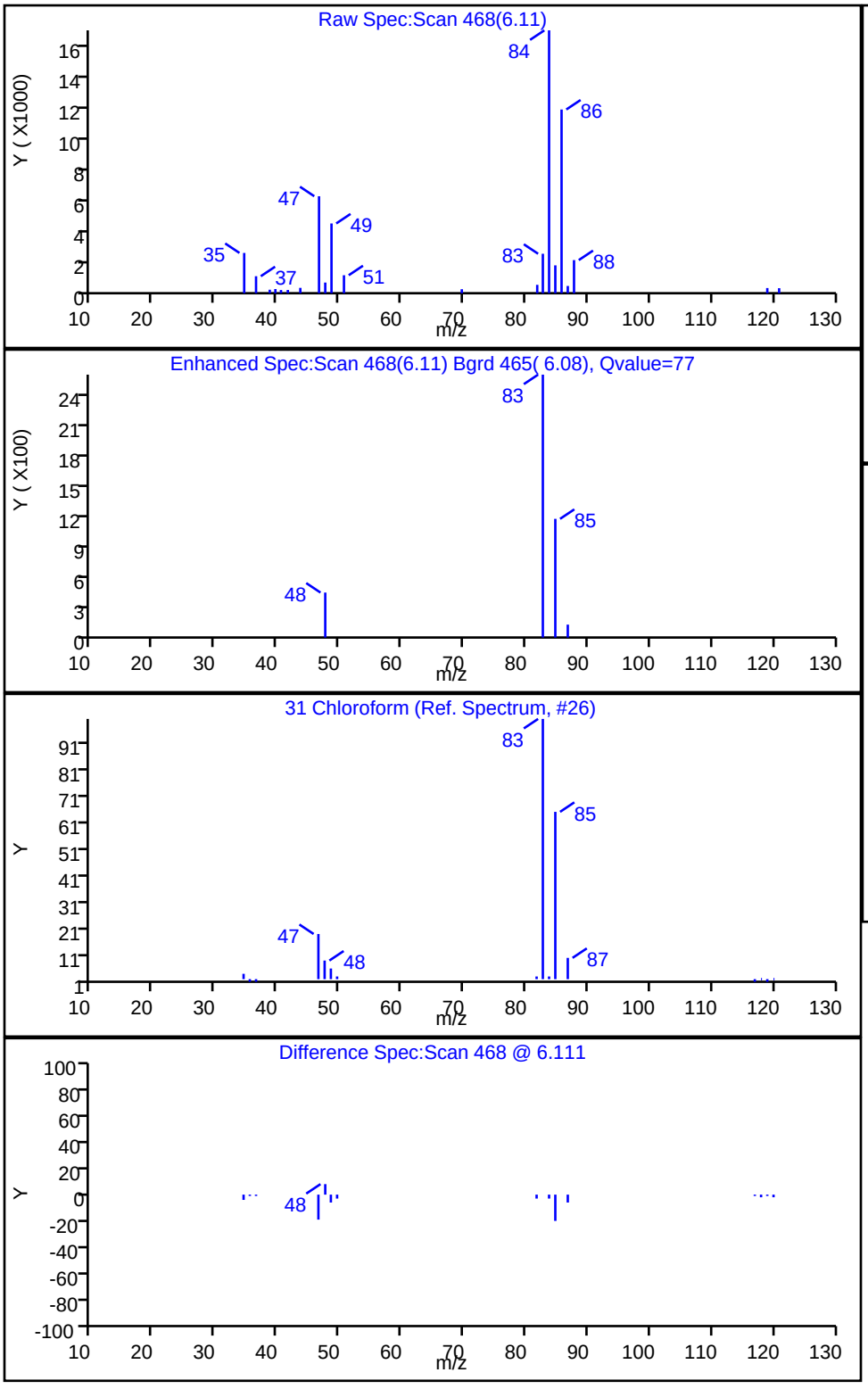


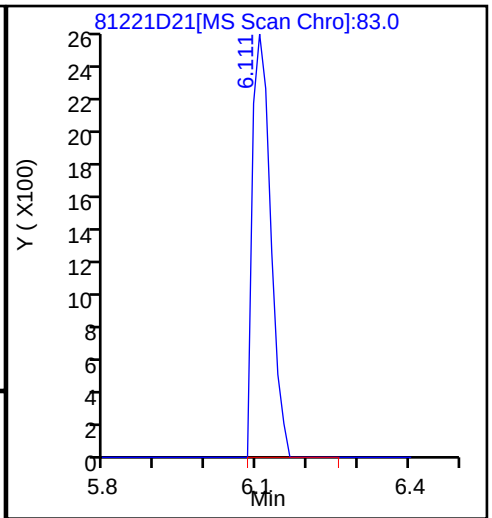
Report Date: 22-Dec-2015 08:29:03 AIM Revision: 1.0 26-May-2015 13:41:26

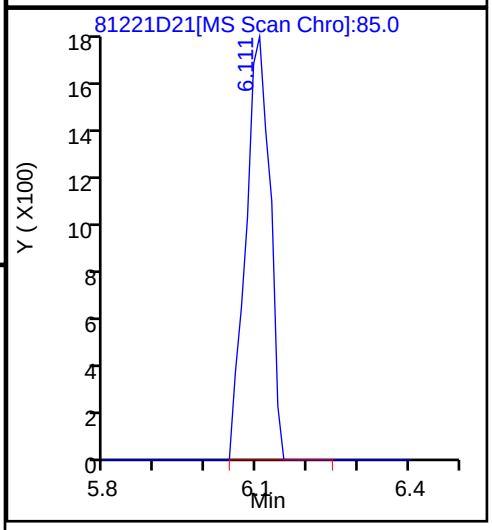
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D21.D		
Injection Date:	21-Dec-2015 21:09:30	Inst. ID:	msd8.i
Client ID:	VIBLK01	Lab ID:	VIBLK01
Sample Info:	8122115D.b, VIBLK01		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

31 Chloroform







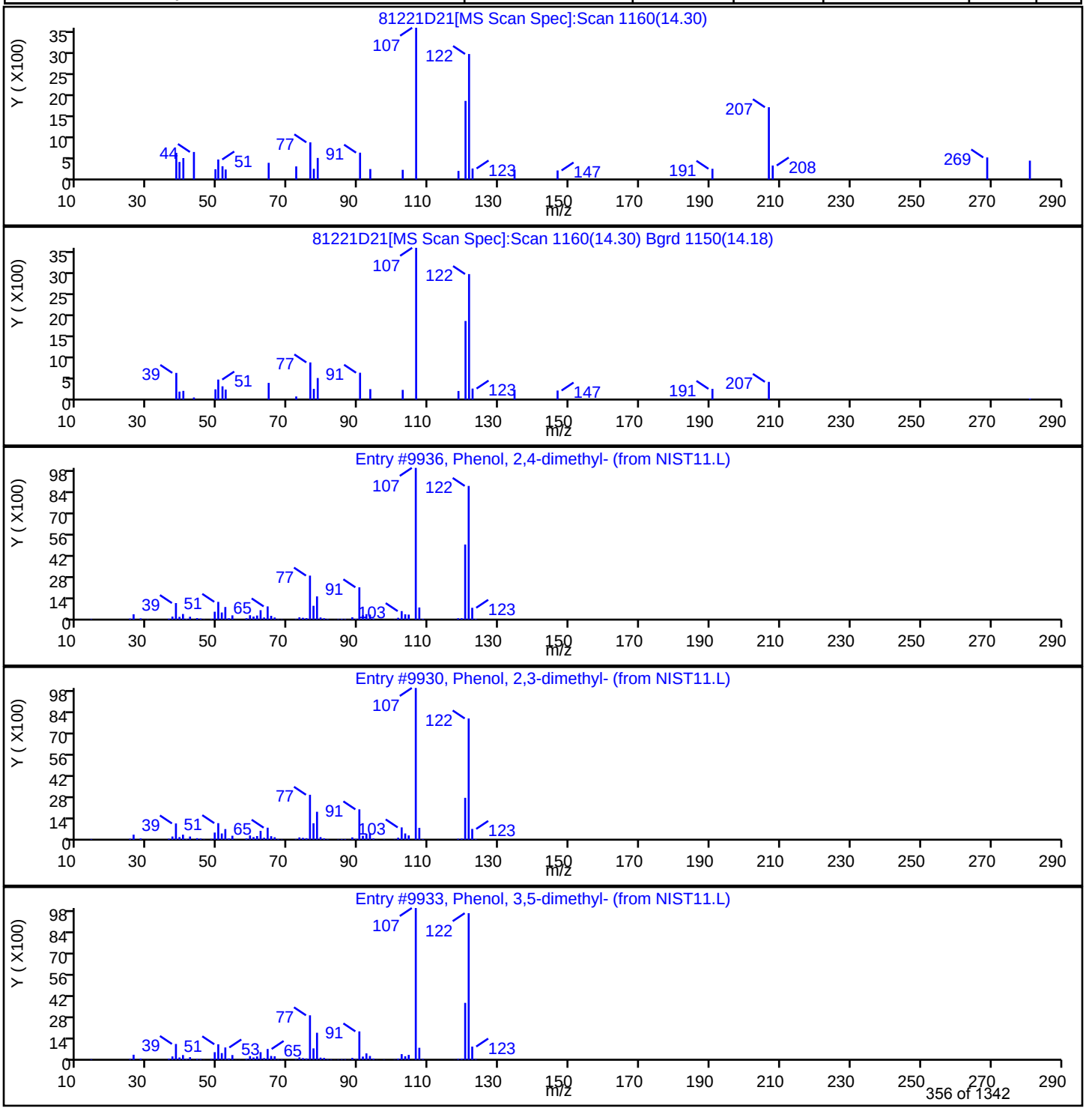
Report Date: 22-Dec-2015 08:29:03 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File: \\Organics\DD\chem\msd8.i\8122115D.b\81221D21.D
Injection Date: 21-Dec-2015 21:09:30 Inst. ID: msd8.i
Client ID: VIBLK01 Lab ID: VIBLK01
Sample Info: 8122115D.b, VIBLK01
Purge Vol. 25 ML Dil. Factor: 1.0
Operator: ALL
Column1: DB-624 (0.25 mm) Detector: MS Scan

TIC @ 14.288

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,4-dimethyl-	105-67-9	NIST11	9936	C8H10O	122	96
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9930	C8H10O	122	93
Phenol, 3,5-dimethyl-	108-68-9	NIST11	9933	C8H10O	122	93



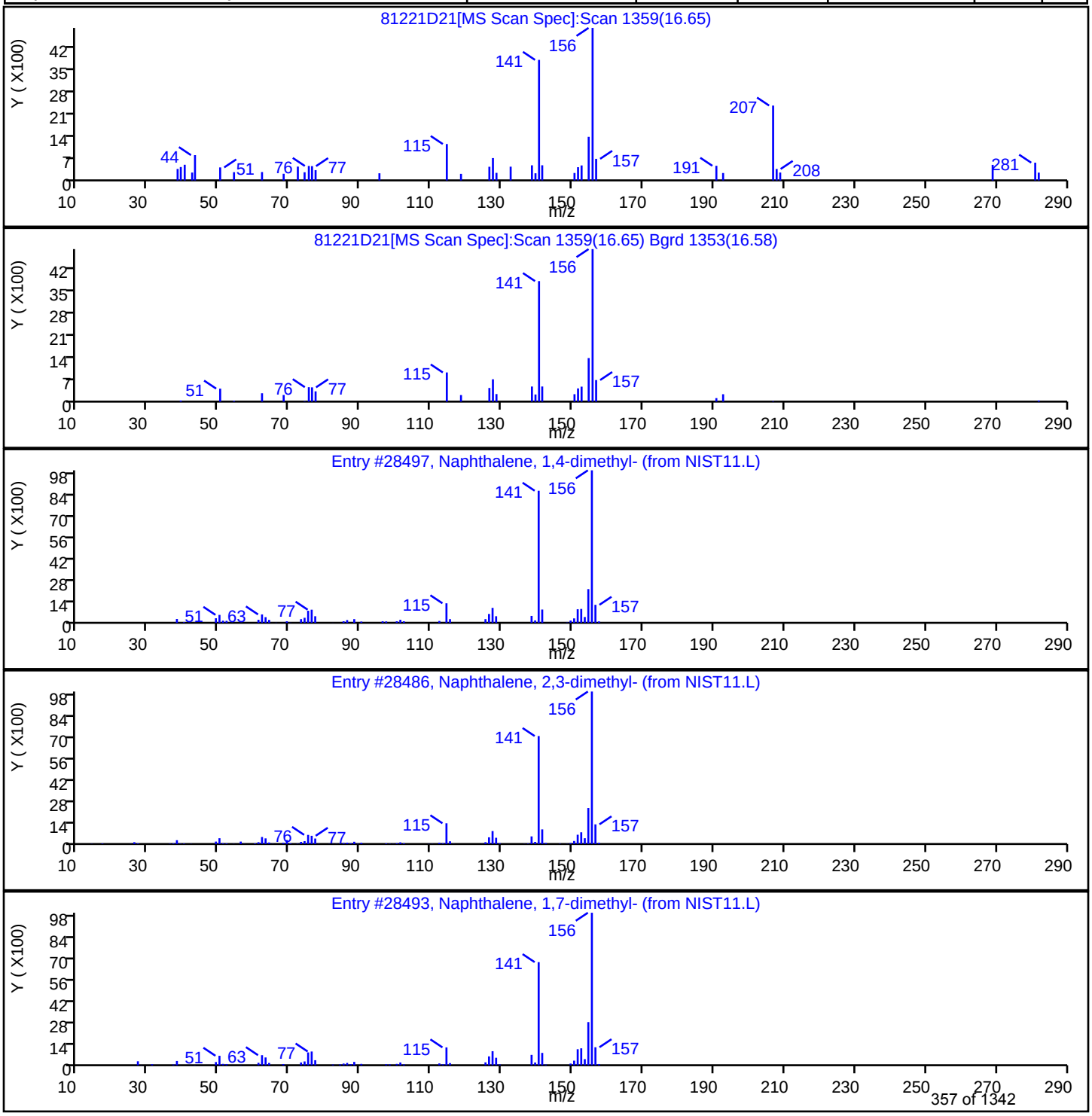
Report Date: 22-Dec-2015 08:29:03 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D21.D		
Injection Date:	21-Dec-2015 21:09:30	Inst. ID:	msd8.i
Client ID:	VIBLK01	Lab ID:	VIBLK01
Sample Info:	8122115D.b, VIBLK01		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 16.642

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,4-dimethyl-	571-58-4	NIST11	28497	C12H12	156	96
Naphthalene, 2,3-dimethyl-	581-40-8	NIST11	28486	C12H12	156	96
Naphthalene, 1,7-dimethyl-	575-37-1	NIST11	28493	C12H12	156	96



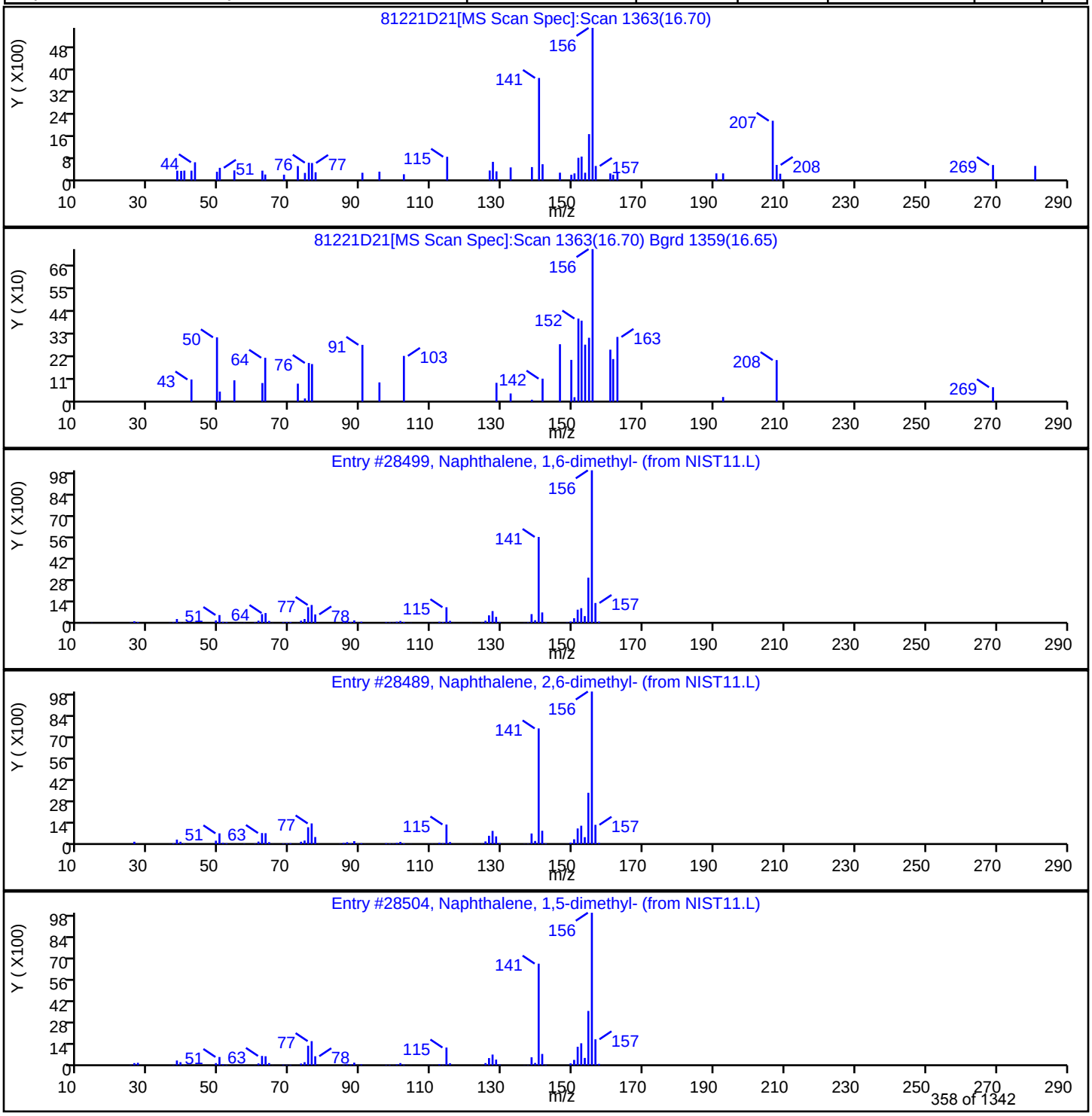
Report Date: 22-Dec-2015 08:29:03 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122115D.b\81221D21.D		
Injection Date:	21-Dec-2015 21:09:30	Inst. ID:	msd8.i
Client ID:	VIBLK01	Lab ID:	VIBLK01
Sample Info:	8122115D.b, VIBLK01		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

TIC @ 16.690

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,6-dimethyl-	575-43-9	NIST11	28499	C12H12	156	98
Naphthalene, 2,6-dimethyl-	581-42-0	NIST11	28489	C12H12	156	98
Naphthalene, 1,5-dimethyl-	571-61-9	NIST11	28504	C12H12	156	97



TRACE-VOLATILE
Miscellaneous Data

Run Logs

Standard Preparation Logs

Report Date: 22-Dec-2015 08:25:05 AIM Revision: 1.0 26-May-2015 13:41:26

Batch: 92723
ICAL: 92671
IS: 14094
SS: 7809

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\DD\chem\msd8.i\8122115D.b
Inst. ID: msd8.i Method: TRACE-8
Matrix: Water Operator: ALL

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	ICal Lvl	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
1	BFBRN	21-Dec-2015 12:15:30	81221D01.D	BFB			Water	1	all			Yes				F	BFBSOM-8
2	BFBRN	21-Dec-2015 12:23:30	81221D02.D	BFB		BFBRN	Water	1	all			Yes			14049		BFBSOM-8
3	VSTD020RN	21-Dec-2015 12:45:30	81221D03.D	Ical	5	VSTD020RN	Water	1	2487.1		Yes				7818		TRACE-8
4	VSTD010RN	21-Dec-2015 13:12:30	81221D04.D	Ical	4	VSTD010RN	Water	1	2487.1		Yes				7817		TRACE-8
5	VSTD005RN	21-Dec-2015 13:39:30	81221D05.D	Ical	3	VSTD005RN	Water	1	2487.1		Yes				7816		TRACE-8
6	VSTD001RN	21-Dec-2015 14:05:30	81221D06.D	Ical	2	VSTD001RN	Water	1	2487.1		Yes				7815		TRACE-8
7	VSTD0.5RN	21-Dec-2015 14:32:30	81221D07.D	Ical	1	VSTD0.5RN	Water	1	2487.1		Yes				7814		TRACE-8
8	VBLKRN	21-Dec-2015 15:11:30	81221D08.D	BLANK		VBLKRN	Water	1	2487.1		Yes						TRACE-8
9	QL16010-007	21-Dec-2015 15:50:30	81221D09.D	Client		F6R39	Water	1	std		Yes			<2			TRACE-8
10	QL16009-001	21-Dec-2015 16:17:30	81221D10.D	Client		C0EG1	Water	1	std		Yes						TRACE-8
11	QL16009-002	21-Dec-2015 16:43:30	81221D11.D	Client		C0EG2	Water	1	std		Yes						TRACE-8
12	QL16009-003	21-Dec-2015 17:10:30	81221D12.D	Client		C0EG3	Water	1	std		Yes						TRACE-8
13	QL12005-018	21-Dec-2015 17:37:30	81221D13.D	Client		YA395	Water	1	2487.1		Yes						TRACE-8
14	QL12005-019	21-Dec-2015 18:03:30	81221D14.D	Client		YA396	Water	1	2487.1		Yes						TRACE-8
15	QL12005-020	21-Dec-2015 18:30:30	81221D15.D	Client		YA3A5	Water	1	2487.1		Yes					R5X	TRACE-8
16	QL12005-021	21-Dec-2015 18:56:30	81221D16.D	Client		YA390	Water	1	2487.1		Yes					R1X CO	TRACE-8
17	QL16010-001	21-Dec-2015 19:23:30	81221D17.D	Client		F6R29	Water	1	std		Yes						TRACE-8
18	QL16010-005	21-Dec-2015 19:49:30	81221D18.D	Client		F6R35	Water	1	std		Yes						TRACE-8
19	QL16010-006	21-Dec-2015 20:15:30	81221D19.D	Client		F6R36	Water	1	std		Yes						TRACE-8
20	QL16010-003	21-Dec-2015 20:42:30	81221D20.D	Client		F6R33	Water	1	std		Yes					R5X	TRACE-8
21	VIBLK01	21-Dec-2015 21:09:30	81221D21.D	Client		VIBLK01	Water	1	2487.1		Yes						TRACE-8
22	QL16010-004	21-Dec-2015 21:35:30	81221D22.D	Client		F6R34	Water	20	std		Yes					matrix	TRACE-8
23	VSTD005RU	21-Dec-2015 22:01:30	81221D23.D	Ccv		VSTD005RU	Water	1	2487.1		Yes				7816		TRACE-8e
24	VSTD005RU	21-Dec-2015 22:28:30	81221D24.D	Client			Water	1	2487.1		Yes						TRACE-8

Report Date: 23-Dec-2015 13:23:50 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Run Log Report

BATCH: 92794
ICAL: 92671
IS: 14094
SS: 7809

Batch Path: \\Organics\DD\chem\msd8.i\8122215B.b
Inst. ID: msd8.i Method: TRACE-8
Matrix: Water Operator: ALL

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
1	BFBSK	22-Dec-2015 09:59:30	81222B01.D	BFB	BFBSK	Water	1	all			Yes			14049		BFBSOM-8
2	VSTD005SK	22-Dec-2015 10:14:30	81222B02.D	Ccv	VSTD005SK	Water	1	2487.1		Yes				7838		TRACE-8
3	VBLKSK	22-Dec-2015 11:03:30	81222B03.D	BLANK	VBLKSK	Water	1	2487.1		Yes						TRACE-8
4	QL12005-021RE	22-Dec-2015 11:38:30	81222B04.D	Client	YA390RE	Water	1	2487.1		Yes			<=2			TRACE-8
5	QL12005-020DL	22-Dec-2015 12:05:30	81222B05.D	Client	YA3A5DL	Water	5	2487.1		Yes			<=2			TRACE-8
6	QL16010-003DL	22-Dec-2015 12:32:30	81222B06.D	Client	F6R33DL	Water	5	std		Yes			<=4			TRACE-8
7	QL16010-002	22-Dec-2015 12:58:30	81222B07.D	Client	F6R32	Water	500	std		Yes			<=7			TRACE-8
8	VIBLK01	22-Dec-2015 13:24:30	81222B08.D	Client		Water	1	2487.1		Yes						TRACE-8
9	QL03011-002	22-Dec-2015 13:51:30	81222B09.D	Client	VHBLK01	Water	1	2487.1		Yes			<=2			TRACE-8
10	QL09045-014	22-Dec-2015 14:17:30	81222B10c.D	Client	VHBLK01	Water	1	std		Yes						TRACE-8
10	QL09048-005	22-Dec-2015 14:17:30	81222B10a.D	Client	VHBLK01	Water	1	std		Yes						TRACE-8
10	QL10029-003	22-Dec-2015 14:17:30	81222B10d.D	Client	VHBLK01	Water	1	std		Yes						TRACE-8
10	QL16009-006	22-Dec-2015 14:17:30	81222B10b.D	Client	VHBLK01	Water	1	std		Yes						TRACE-8
10	QL10037-002	22-Dec-2015 14:17:30	81222B10e.D	Client	VHBLK01	Water	1	2487.1		Yes						TRACE-8
10	QL16010-008	22-Dec-2015 14:17:30	81222B10.D	Client	VHBLK01	Water	1	std		Yes						TRACE-8
10	QL12005-006	22-Dec-2015 14:17:30	81222B10f.D	Client	VHBLK01	Water	1	2487.1		Yes						TRACE-8
11	QL21009-001	22-Dec-2015 14:44:30	81222B11.D	Client	YA392	Water	1	2487.1		Yes						TRACE-8
12	QL21009-002	22-Dec-2015 15:10:30	81222B12.D	Client	YA323	Water	1	2487.1		Yes						TRACE-8
13	QL21009-003	22-Dec-2015 15:36:30	81222B13.D	Client	YA324	Water	1	2487.1		Yes						TRACE-8
14	QL21009-004	22-Dec-2015 16:03:30	81222B14.D	Client	YA3A4	Water	1	2487.1		Yes						TRACE-8
15	QL21009-005	22-Dec-2015 16:30:30	81222B15.D	Client	YA320	Water	1	2487.1		Yes						TRACE-8
16	QL21009-006	22-Dec-2015 16:56:30	81222B16.D	Client	YA319	Water	1	2487.1		Yes						TRACE-8
17	QL21009-007	22-Dec-2015 17:22:30	81222B17.D	Client	YA321	Water	1	2487.1		Yes						TRACE-8
18	QL21009-008	22-Dec-2015 17:49:30	81222B18.D	Client	YA3B5	Water	1	2487.1		Yes						TRACE-8
19	QL21009-009	22-Dec-2015 18:15:30	81222B19.D	Client	YA354	Water	1	2487.1		Yes						TRACE-8
20	QL21009-010	22-Dec-2015 18:42:30	81222B20.D	Client	YA391	Water	1	2487.1		Yes					R-10X	TRACE-8
21	QL21009-011	22-Dec-2015 19:09:30	81222B21.D	Client	YA332	Water	1	2487.1		Yes						TRACE-8
22	QL21009-012	22-Dec-2015 19:37:30	81222B22.D	Client	YA333	Water	1	2487.1		Yes						TRACE-8
23	QL21009-013	22-Dec-2015 20:03:30	81222B23.D	Client	YA397	Water	1	2487.1		Yes						TRACE-8
24	VSTD005SM	22-Dec-2015 20:29:30	81222B24.D	Ccv	VSTD005SM	Water	1	2487.1		Yes				7838		TRACE-8e
25	VSTD005SM	22-Dec-2015 20:59:30	81222B25.D	Ccv	VSTD005SM	Water	1	2487.1		Yes					NR-passes	TRACE-8e

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7818 Analyst: ALL Prep Date: 12/21/2015
Solv. Lot: NA Exp. Date: 12/22/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
Trace ICAL 20									
SOM Trace Ketone Std	SOMV 7735	800	10	50	160	H2O	NA	12/4/2015	1/3/2016
8260 Sec. Std	VOMS 14100	100	10	50	20	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	10	50	20	H2O	NA	12/15/2015	12/22/2015
Trace DMC Mix	SOMV 7809	20	50	50	20	H2O	NA	12/18/2015	1/17/2016
Trace 2487 Mix	SOMV 7743	100	10	50	20	H2O	NA	12/7/2015	1/6/2015
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7817 Analyst: ALL Prep Date: 12/21/2015
Solv. Lot: NA Exp. Date: 12/22/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
Trace ICAL 10									
SOM Trace Ketone Std	SOMV 7735	800	5	50	80	H2O	NA	12/4/2015	1/3/2016
8260 Sec. Std	VOMS 14100	100	5	50	10	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	5	50	10	H2O	NA	12/15/2015	12/22/2015
Trace DMC Mix	SOMV 7809	20	25	50	10	H2O	NA	12/18/2015	1/17/2016
Trace 2487 Mix	SOMV 7743	100	5	50	10	H2O	NA	12/7/2015	1/6/2015
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7816 Analyst: ALL Prep Date: 12/21/2015
Solv. Lot: NA Exp. Date: 12/22/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
Trace ICAL 5									
SOM Trace Ketone Std	SOMV 7735	800	5	100	40	H2O	NA	12/4/2015	1/3/2016
8260 Sec. Std	VOMS 14100	100	5	100	5	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	5	100	5	H2O	NA	12/15/2015	12/22/2015
Trace DMC Mix	SOMV 7809	20	25	100	5	H2O	NA	12/18/2015	1/17/2016
Trace 2487 Mix	SOMV 7743	100	5	100	5	H2O	NA	12/7/2015	1/6/2015
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7815 Analyst: ALL Prep Date: 12/21/2015
Solv. Lot: NA Exp. Date: 12/22/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
Trace ICAL 1									
SOM Trace Ketone Std	SOMV 7735	800	5	500	8	H2O	NA	12/4/2015	1/3/2016
8260 Sec. Std	VOMS 14100	100	5	500	1	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	5	500	1	H2O	NA	12/15/2015	12/22/2015
Trace DMC Mix	SOMV 7809	20	25	500	1	H2O	NA	12/18/2015	1/17/2016
Trace 2487 Mix	SOMV 7743	100	5	500	1	H2O	NA	12/7/2015	1/6/2015
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7814 Analyst: ALL Prep Date: 12/21/2015
Solv. Lot: NA Exp. Date: 12/22/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
Trace ICAL 0.5									
SOM Trace Ketone Std	SOMV 7735	800	2.5	500	4	H2O	NA	12/4/2015	1/3/2016
8260 Sec. Std	VOMS 14100	100	2.5	500	0.5	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	2.5	500	0.5	H2O	NA	12/15/2015	12/22/2015
Trace DMC Mix	SOMV 7809	20	12.5	500	0.5	H2O	NA	12/18/2015	1/17/2016
Trace 2487 Mix	SOMV 7743	100	2.5	500	0.5	H2O	NA	12/7/2015	1/6/2015
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7838 Analyst: ALL Prep Date: 12/22/2015
Solv. Lot: NA Exp. Date: 12/23/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
Trace CCV									
SOM Trace Ketone Std	SOMV 7735	800	5	100	40	H2O	NA	12/4/2015	1/3/2016
8260 Sec. Std	VOMS 14100	100	5	100	5	H2O	NA	12/16/2015	12/24/2015
8260 Sec. Gas Std	VOMS 14098	100	5	100	5	H2O	NA	12/15/2015	12/22/2015
Trace DMC Mix	SOMV 7809	20	25	100	5	H2O	NA	12/18/2015	1/17/2016
Trace 2487 Mix	SOMV 7743	100	5	100	5	H2O	NA	12/7/2015	1/6/2015
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

TRACEVOLATILE-sim

QC Summary

- Deuterated Monitoring Compound Recovery (Form 2)
- Matrix Spike/Matrix Spike Duplicate Recovery (Form 3) optional
- Laboratory Control Sample Recovery (Form 3) optional
- Method Blank Summary (Form 4)
- GC/MS Instrument Performance Check (Form 5)
- Internal Standard Area & RT Summary (Form 8)

Sample Data

Standards Data

- Initial Calibration (Form 6)
- Continuing Calibration Verification Data (Form 7)

Raw QC Data

- DFTPP Data
- Blank Data
- MS/MSD Data (optional)
- LCS Data (optional)

Miscellaneous Data

- Run Logs
- Standard Preparation Logs

TRACEVOLATILE-sim QC SUMMARY

Includes:

Deuterated Monitoring Compound Recovery (Form 2)

Matrix Spike/Matrix Spike Duplicate (Form 3A)

Laboratory Control Sample Recovery (From 3B)

Method Blank Summary (Form 4)

GC/MS Instrument Performance Check (Form 5)

Internal Standard Area and RT Summary (Form 8)

Deuterated Monitoring Compound Recovery

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

AnalyticalMethod: VOA SIM Level: TRACE

Matrix: Water

EPA SAMPLE NO.	DMC1	DMC2	DMC3	DMC4	DMC5	DMC6	DMC7	DMC8	TOT OUT
F6R29	96	97	101	101	97	83	94	99	0
F6R32	100	94	100	100	98	83	97	102	0
F6R33	99	95	99	102	91	85	94	100	0
F6R34	99	100	103	110	101	89	105	106	0
F6R35	94	95	100	104	101	89	103	102	0
F6R36	95	103	97	102	99	86	98	100	0
F6R39	99	98	103	104	95	82	95	99	0
VHBLK01	103	86	106	103	92	59	84	100	0
VBLKSK	99	94	101	102	96	81	95	102	0
VLCSSK	103	95	107	106	101	83	96	102	0
VBLKTC	99	95	100	105	98	82	99	103	0
VBLKVU	105	89	108	107	97	51	89	104	0

	QC LIMITS
DMC1 = Chloroform-d	70-125
DMC2 = 1,2-Dichloroethane-d4	70-130
DMC3 = Benzene-d6	70-125
DMC4 = 1,2-Dichloropropane-d6	60-140
DMC5 = trans-1,3-Dichloropropene-d4	55-130
DMC6 = 2-Hexanone-d5	45-130
DMC7 = 1,1,2,2-Tetrachloroethane-d2	65-120
DMC8 = 1,2-Dichlorobenzene-d4	80-120

* Values outside of contract required QC limits
D DMC diluted out

Method Blank Summary

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKSK

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QQ92901-001

Instrument ID: Agilent MSD8 Lab File ID: 81222C10

Extraction Type: PT Date Extracted:

GC Column(1): DB-624 ID: 0.25 (mm) Date Analyzed: 12/23/2015

GC Column(2): ID: (mm) Time Analyzed: 03:18

Heated Purge:(Y/N) N Cleanup:(Y/N) Cleanup Types:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R29	QL16010-001	81222C12	12/23/2015
F6R33	QL16010-003	81222C16	12/23/2015
F6R35	QL16010-005	81222C13	12/23/2015
F6R36	QL16010-006	81222C14	12/23/2015
F6R39	QL16010-007	81222C15	12/23/2015
VLCSSK	QQ92901-002	81222C11	12/23/2015

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKTC

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QQ92921-001

Instrument ID: Agilent MSD8 Lab File ID: 81223A02

Extraction Type: PT Date Extracted:

GC Column(1): DB-624 ID: 0.25 (mm) Date Analyzed: 12/23/2015

GC Column(2): ID: (mm) Time Analyzed: 12:43

Heated Purge:(Y/N) N Cleanup:(Y/N) Cleanup Types:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R32	QL16010-002	81223A04	12/23/2015
F6R34	QL16010-004	81223A03	12/23/2015

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKVU

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: RQ93646-001

Instrument ID: Agilent MSD8 Lab File ID: 80105A03

Extraction Type: PT Date Extracted:

GC Column(1): DB-624 ID: 0.25 (mm) Date Analyzed: 01/05/2016

GC Column(2): ID: (mm) Time Analyzed: 14:25

Heated Purge:(Y/N) N Cleanup:(Y/N) Cleanup Types:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
VHBLK01	QL16010-008	80105A04	01/05/2016

Internal Standard & RT Summary

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: Low

EPA Sample No.: VSTD0.5SK Lab File ID (Standard): 81222C06

Instrument ID: Agilent MSD8 Init. Calib. Date(s): 12/23/2015 12/23/2015

GC Column: DB-624 ID: 0.25 (mm) Date Analyzed: 12/23/2015

Heated Purge: (Y/N) N Time Analyzed: 0131

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	15043	10.92	19265	7.37	7935	12.88
UPPER LIMIT	30086	11.09	38530	7.54	15870	13.05
LOWER LIMIT	7522	10.75	9633	7.20	3968	12.71
EPA SAMPLE NO.						
F6R29	15101	10.92	19830	7.37	7421	12.88
F6R33	14904	10.92	19387	7.37	7932	12.88
F6R35	14538	10.92	19589	7.37	7369	12.88
F6R36	15270	10.92	19704	7.37	7654	12.88
F6R39	16235	10.92	21149	7.37	8094	12.88
VBLKSK	15543	10.92	20158	7.37	7546	12.88
VLCSSK	15792	10.92	20763	7.37	7975	12.88

IS1 = Chlorobenzene-d5
IS2 = 1,4-Difluorobenzene
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = + 0.17 minutes of internal standard RT

RT LOWER LIMIT = - 0.17 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: Low

EPA Sample No.: VSTD0.5SY Lab File ID (Standard): 81222C17

Instrument ID: Agilent MSD8 Init. Calib. Date(s): 12/23/2015 12/23/2015

GC Column: DB-624 ID: 0.25 (mm) Date Analyzed: 12/23/2015

Heated Purge: (Y/N) N Time Analyzed: 1119

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	12349	10.92	16804	7.37	6691	12.88
UPPER LIMIT	24698	11.09	33608	7.54	13382	13.05
LOWER LIMIT	6175	10.75	8402	7.20	3346	12.71
EPA SAMPLE NO.						
F6R32	16755	10.92	21362	7.37	8150	12.88
F6R34	14923	10.92	19855	7.37	7674	12.88
VBLKTC	15157	10.92	19825	7.37	7458	12.88

IS1 = Chlorobenzene-d5
IS2 = 1,4-Difluorobenzene
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = + 0.17 minutes of internal standard RT

RT LOWER LIMIT = - 0.17 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: Low

EPA Sample No.: VSTD0.5VU Lab File ID (Standard): 80105A02

Instrument ID: Agilent MSD8 Init. Calib. Date(s): 12/23/2015 12/23/2015

GC Column: DB-624 ID: 0.25 (mm) Date Analyzed: 01/05/2016

Heated Purge: (Y/N) N Time Analyzed: 1340

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	30859	10.92	42033	7.37	17419	12.88
UPPER LIMIT	61718	11.09	84066	7.54	34838	13.05
LOWER LIMIT	15430	10.75	21017	7.20	8710	12.71
EPA SAMPLE NO.						
VHBLK01	27263	10.92	37409	7.37	13269	12.88
VBLKVU	27499	10.92	37633	7.37	13308	12.88

IS1 = Chlorobenzene-d5
IS2 = 1,4-Difluorobenzene
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% of internal standard area

AREA LOWER LIMIT = 50% of internal standard area

RT UPPER LIMIT = + 0.17 minutes of internal standard RT

RT LOWER LIMIT = - 0.17 minutes of internal standard RT

TRACEVOLATILE-sim SAMPLE DATA

Sample data shall be arranged in packets with the Volatile Analysis Data Sheet (Form 1A-OR), followed by the raw data for the VOA samples. These sample packets shall be placed in increasing EPA sample number order, considering both letters and numbers.

-Target Compound Results (Form 1A-OR)
-Quantitation Report showing calculation for TCL Analytes
-Reconstructed Total Ion Chromatograms
-Raw Spectra & background subtracted mass spectra of TCL Analytes identified in the sample
-Mass Spectra of organic compounds not listed in Exhibit C with associated best match spectra
-Printout of Manual Integrations

Spectra shall be labeled as follows:

EPA Sample ID number, Sample ID number, Lab file ID, Date & Time of analysis and Instrument ID.
The compound name must be clearly marked.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R29

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QL16010-001

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222C12

% Solids: Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted:

GC Column: ID: (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) Extract Volume: (uL)

Soil Aliquot (VOA): (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
67-66-3	Chloroform	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
71-43-2	Benzene	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
78-87-5	1,2-Dichloropropane	0.050	U
75-27-4	Bromodichloromethane	0.050	U
10061-01-5	cis-1,3-Dichloropropene	0.050	U
79-00-5	1,1,2-Trichloroethane	0.050	U
591-78-6	2-Hexanone	0.50	U
106-93-4	1,2-Dibromoethane	0.050	U
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U
106-46-7	1,4-Dichlorobenzene	0.050	U
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U
120-82-1	1,2,4-Trichlorobenzene	0.050	U
87-61-6	1,2,3-Trichlorobenzene	0.050	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C12.D		
Lab Sample ID:	QL16010-001	Client Sample ID:	F6R29
Injection Date:	23-Dec-2015 09:05:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, QL16010-001		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	12
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 12:21:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 23 Chloroform-d	84.0	6.093	6.093	0.000	15266	0.47796	0.47790	Q
24 Chloroform	83.0		6.123		ND			
27 Carbon Tetrachloride	117.0		6.596		ND			
$ 29 1,2-Dichloroethane-d4	65.0	6.775	6.776	-0.001	4900	0.48598	0.48590	M
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	20546	0.50494	0.50490	Q
31 Benzene	78.0		6.865		ND			
32 1,2-Dichloroethane	62.0		6.882		ND			
* 33 1,4-Difluorobenzene	114.0	7.371	7.372	-0.001	19830	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.895	7.904	-0.009	6483	0.50657	0.50650	M
37 1,2-Dichloropropane	63.0		8.020		ND			
39 Bromodichloromethane	83.0		8.384		ND			
40 cis-1,3-Dichloropropene	75.0		8.996		ND			
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.658	9.659	-0.001	4420	0.48302	0.48300	Q
46 1,1,2-Trichloroethane	97.0		9.906		ND			
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4199	4.1735	4.1734	Q
50 2-Hexanone	43.0		10.184		ND			
52 1,2-Dibromoethane	107.0		10.459		ND			
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	15101	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.053	12.052	0.001	2608	0.47056	0.47050	Q
64 1,1,2,2-Tetrachloroethane	83.0		12.069		ND			
* 76 1,4-Dichlorobenzene-d4	152.0	12.879	12.878	0.001	7421	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0		13.173		ND			
$ 78 1,2-Dichlorobenzene-d4	152.0	13.164	13.163	0.001	6295	0.49307	0.49300	Q
80 1,2-Dibromo-3-chloropropane	75.0		13.722		ND			
82 1,2,4-Trichlorobenzene	180.0		14.302		ND			
84 1,2,3-Trichlorobenzene	180.0		14.674		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C12.D		
Lab Sample ID:	QL16010-001	Client Sample ID:	F6R29
Injection Date:	23-Dec-2015 09:05:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, QL16010-001		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	12
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 12:21:30

Tentative Identified Compound Results

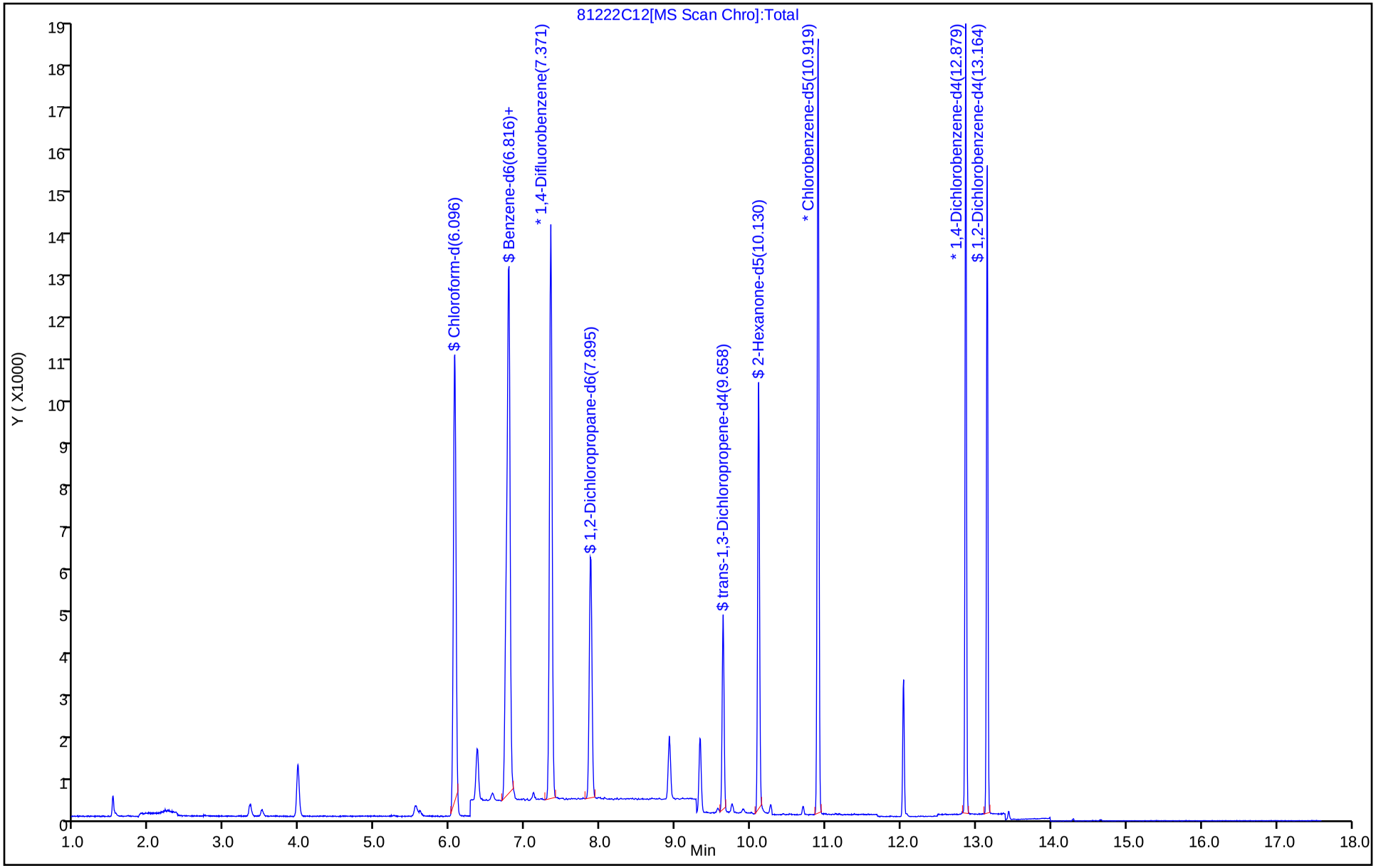
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 06-Jan-2016 11:38:21 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C12.D				
Injection Date:	23-Dec-2015 09:05:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	F6R29	Lab ID:	QL16010-001		
Sample Info:	8122215C.b, QL16010-001				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 06-Jan-2016 11:38:21 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

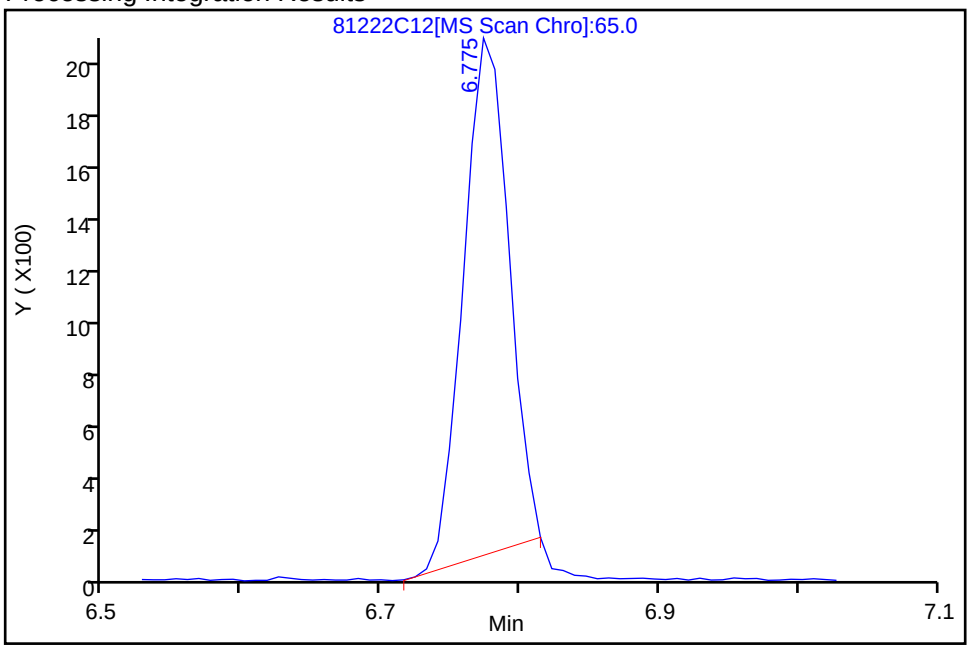
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C12.D		
Injection Date:	23-Dec-2015 09:05:30	Inst. ID:	msd8.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	8122215C.b, QL16010-001		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 29 1,2-Dichloroethane-d4, CAS: 17060-07-0

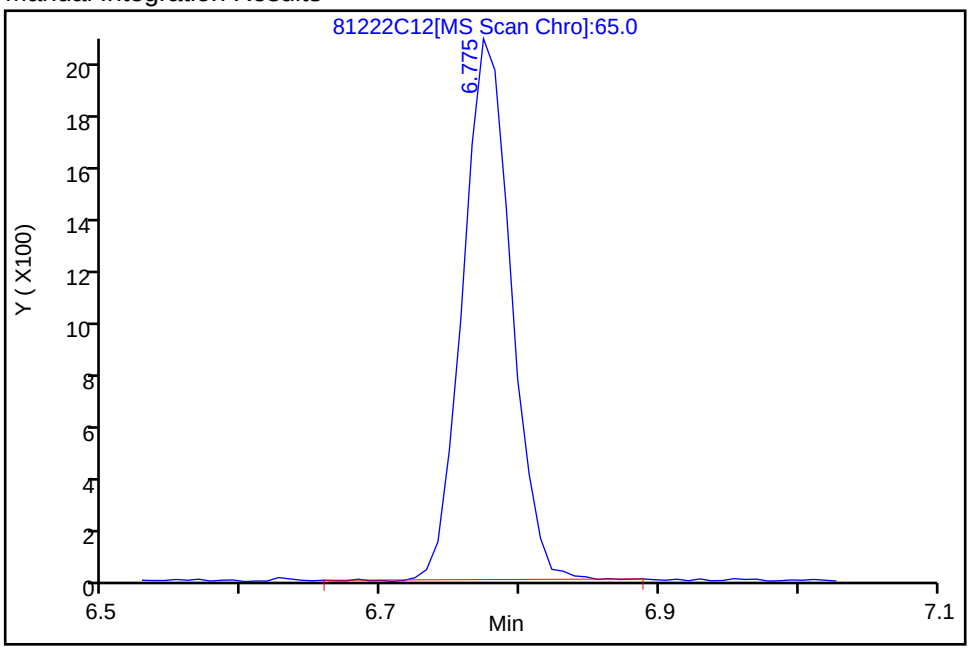
Processing Integration Results

RT: 6.775
Area: 4293
Conc: 0.42570
Conc Units: ug/L
Conc:



Manual Integration Results

RT: 6.775
Area: 4900
Conc: 0.48590
Conc Units: ug/L



Data Editor: pap, 23-Dec-2015 12:21:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 06-Jan-2016 11:38:21 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

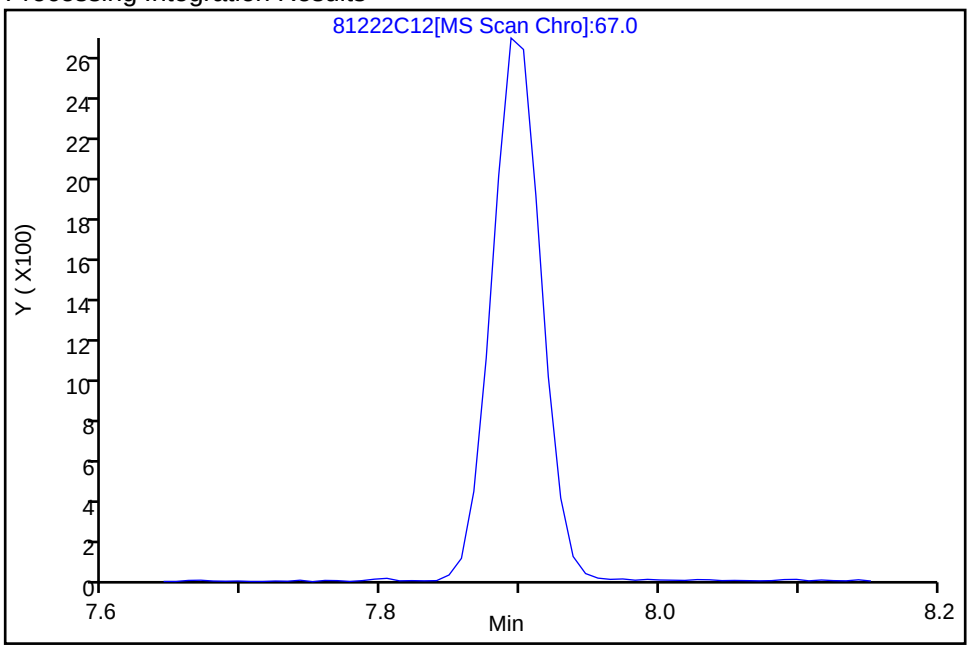
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C12.D		
Injection Date:	23-Dec-2015 09:05:30	Inst. ID:	msd8.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	8122215C.b, QL16010-001		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

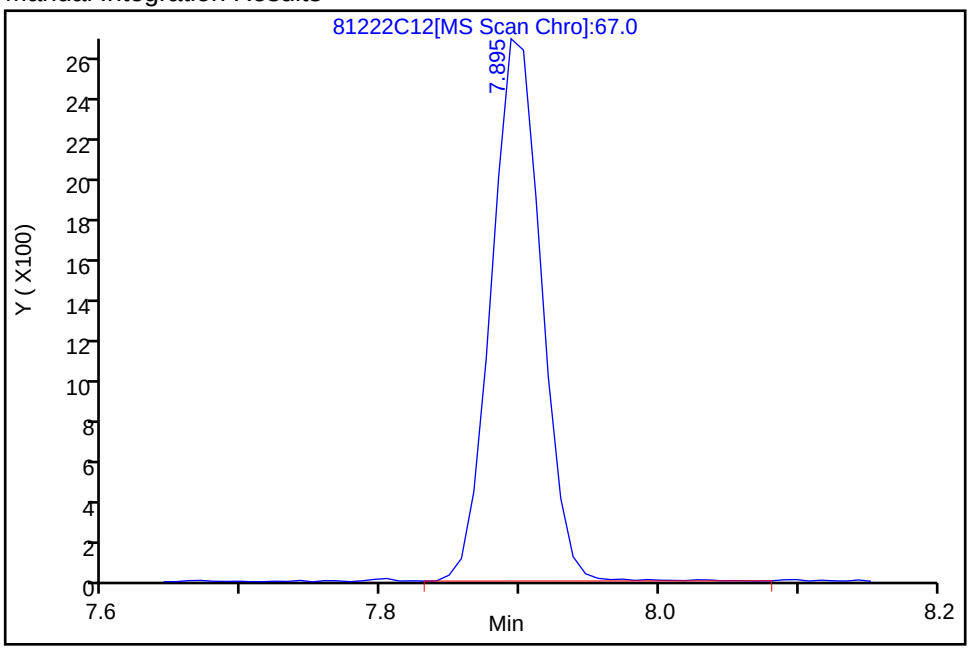
Not Detected
7.904

Processing Integration Results



Manual Integration Results

RT:	7.895
Area:	6483
Conc:	0.50650
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:21:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:21 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

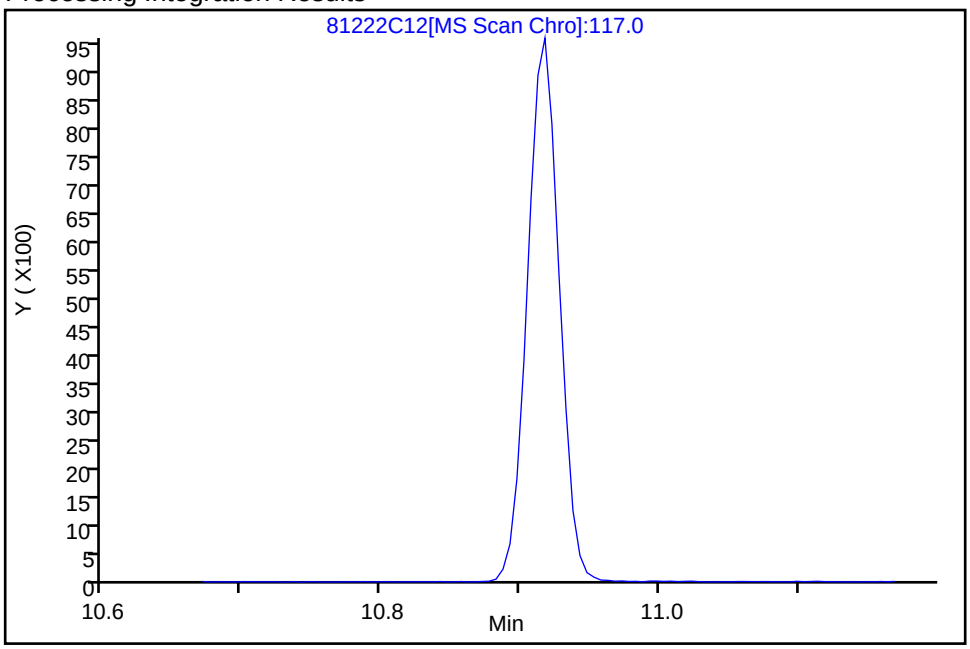
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C12.D		
Injection Date:	23-Dec-2015 09:05:30	Inst. ID:	msd8.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	8122215C.b, QL16010-001		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

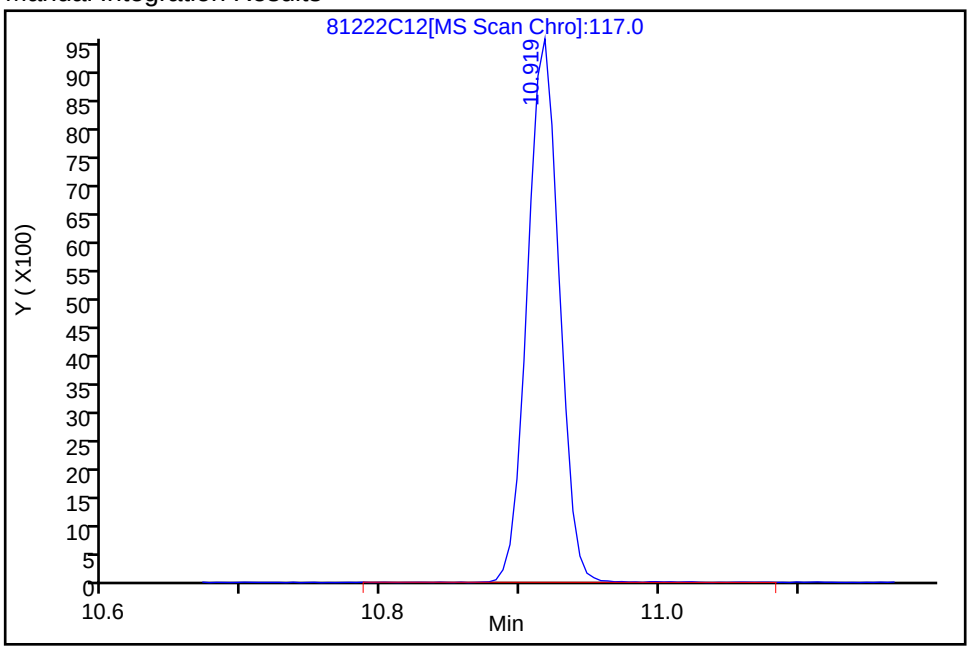
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	15101
Conc:	0.50000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:21:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:21 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

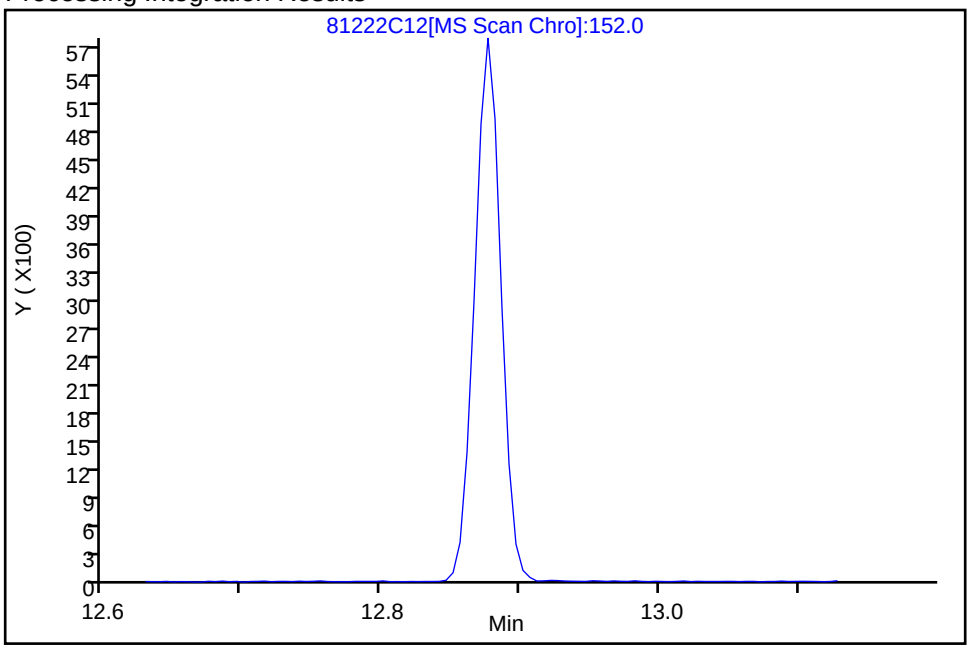
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C12.D		
Injection Date:	23-Dec-2015 09:05:30	Inst. ID:	msd8.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	8122215C.b, QL16010-001		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

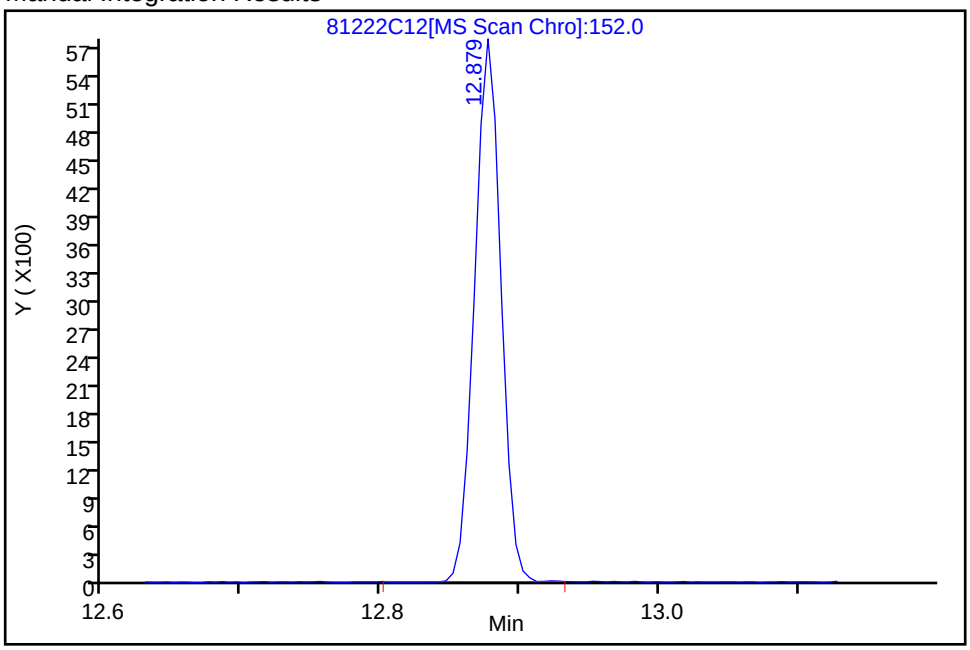
Processing Integration Results

Not Detected
12.878



Manual Integration Results

RT: 12.879
Area: 7421
Conc: 0.50000
Conc Units: ug/L



Data Editor: pap, 23-Dec-2015 12:21:30
Audit Action: Mint
Audit Reason: NOID

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 1.00 (g/mL) mL Lab File ID: 81223A04

% Solids: Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted:

GC Column: ID: (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) Extract Volume: (uL)

Soil Aliquot (VOA): (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: (uL)

Purge Volume: 1.0 (mL) pH: 2 Dilution Factor: 500.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
67-66-3	Chloroform	1100	B
56-23-5	Carbon tetrachloride	630	U
71-43-2	Benzene	2400	
107-06-2	1,2-Dichloroethane	630	U
78-87-5	1,2-Dichloropropane	630	U
75-27-4	Bromodichloromethane	630	U
10061-01-5	cis-1,3-Dichloropropene	630	U
79-00-5	1,1,2-Trichloroethane	630	U
591-78-6	2-Hexanone	6300	U
106-93-4	1,2-Dibromoethane	630	U
79-34-5	1,1,2,2-Tetrachloroethane	630	U
106-46-7	1,4-Dichlorobenzene	630	U
96-12-8	1,2-Dibromo-3-chloropropane	630	U
120-82-1	1,2,4-Trichlorobenzene	630	U
87-61-6	1,2,3-Trichlorobenzene	630	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A04.D		
Lab Sample ID:	QL16010-002	Client Sample ID:	F6R32
Injection Date:	23-Dec-2015 13:56:30	Dil. Factor:	500.0
Operator:	PAP	Inst. ID:	msd8.i
Sample Info:	8122315.b, QL16010-002,500		
Method:	\\Organics\DD\chem\msd8.i\8122315.b\SIM2545-8.m		
Method Date:	23-Dec-2015 12:14:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	5
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	500.00	Dilution Factor
Vo	1.0000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 14:25:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 23 Chloroform-d	84.0	6.096	6.096	0.000	17256	0.50152	12.538	Q
24 Chloroform	83.0	6.123	6.123	0.000	8374	0.08449	1056.07	
27 Carbon Tetrachloride	117.0		6.596		ND			
$ 29 1,2-Dichloroethane-d4	65.0	6.784	6.776	0.008	5095	0.46908	11.727	
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	22484	0.49802	12.450	
31 Benzene	78.0	6.865	6.865	0.000	10059	0.18969	2371.18	
32 1,2-Dichloroethane	62.0		6.882		ND			
* 33 1,4-Difluorobenzene	114.0	7.371	7.372	-0.001	21362	0.50000	6250.00	Q
$ 35 1,2-Dichloropropane-d6	67.0	7.904	7.904	0.000	7130	0.50213	12.553	M
37 1,2-Dichloropropane	63.0		8.020		ND			
39 Bromodichloromethane	83.0		8.384		ND			
40 cis-1,3-Dichloropropene	75.0		8.996		ND			
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.658	9.659	-0.001	4996	0.49207	12.302	
46 1,1,2-Trichloroethane	97.0		9.906		ND			
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4634	4.1512	103.78	Q
50 2-Hexanone	43.0		10.179		ND			
52 1,2-Dibromoethane	107.0		10.459		ND			
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	16755	0.50000	6250.00	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.053	12.052	0.001	2990	0.48623	12.156	
64 1,1,2,2-Tetrachloroethane	83.0		12.069		ND			
* 76 1,4-Dichlorobenzene-d4	152.0	12.879	12.878	0.001	8150	0.50000	6250.00	M
77 1,4-Dichlorobenzene	146.0		12.893		ND			
$ 78 1,2-Dichlorobenzene-d4	152.0	13.164	13.163	0.001	7136	0.50895	12.724	
80 1,2-Dibromo-3-chloropropane	75.0		13.722		ND			
82 1,2,4-Trichlorobenzene	180.0		14.302		ND			
84 1,2,3-Trichlorobenzene	180.0		14.668		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A04.D		
Lab Sample ID:	QL16010-002	Client Sample ID:	F6R32
Injection Date:	23-Dec-2015 13:56:30	Dil. Factor:	500.0
Operator:	PAP	Inst. ID:	msd8.i
Sample Info:	8122315.b, QL16010-002,500		
Method:	\\Organics\DD\chem\msd8.i\8122315.b\SIM2545-8.m		
Method Date:	23-Dec-2015 12:14:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	5
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	500.00	Dilution Factor
Vo	1.0000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 14:25:30

Tentative Identified Compound Results

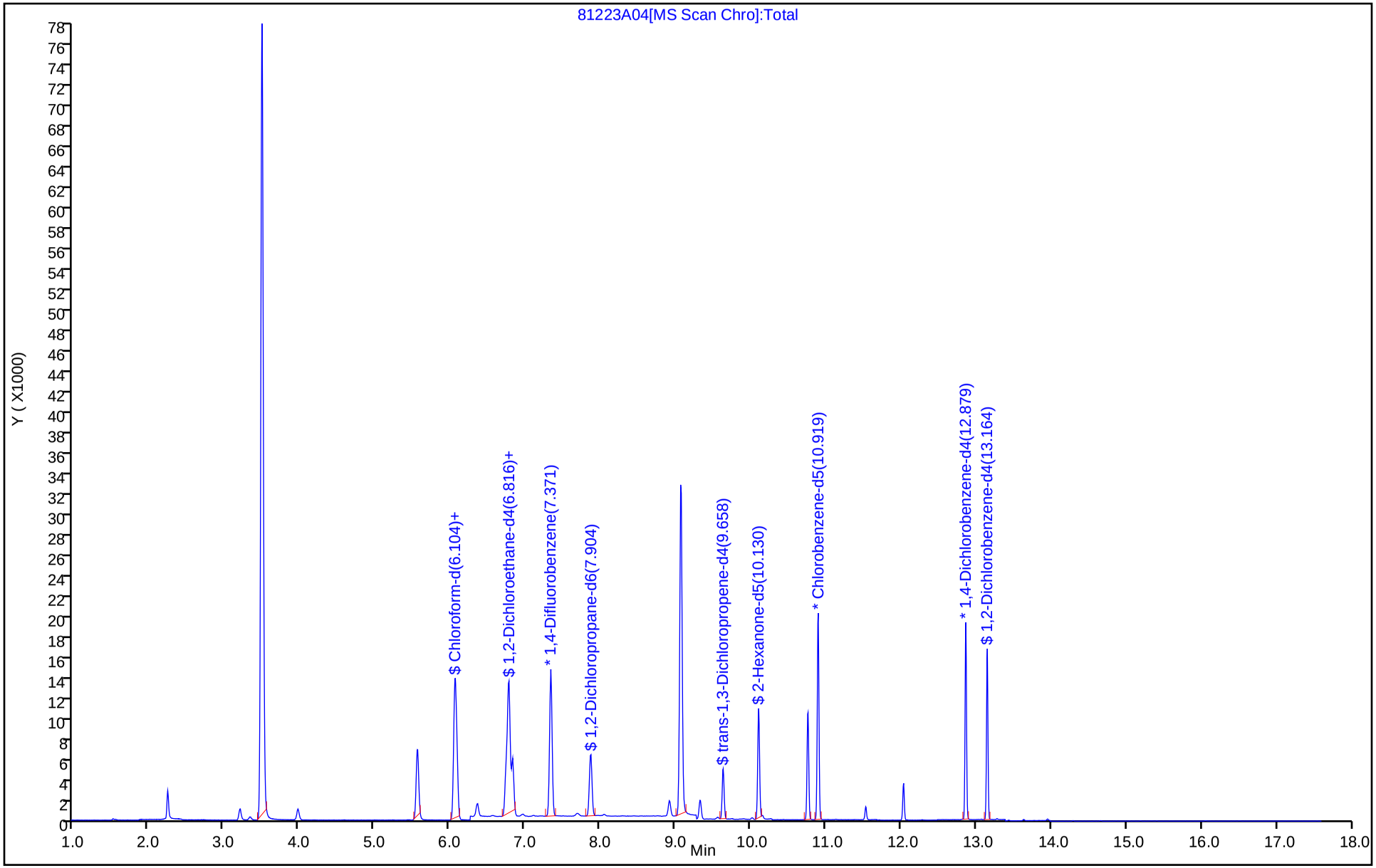
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 06-Jan-2016 11:35:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A04.D				
Injection Date:	23-Dec-2015 13:56:30	Inst. ID:	msd8.i	Operator:	PAP
Client ID:	F6R32	Lab ID:	QL16010-002		
Sample Info:	8122315.b, QL16010-002,500				
Purge Vol.	1.00 ML	Dil. Factor:	500.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

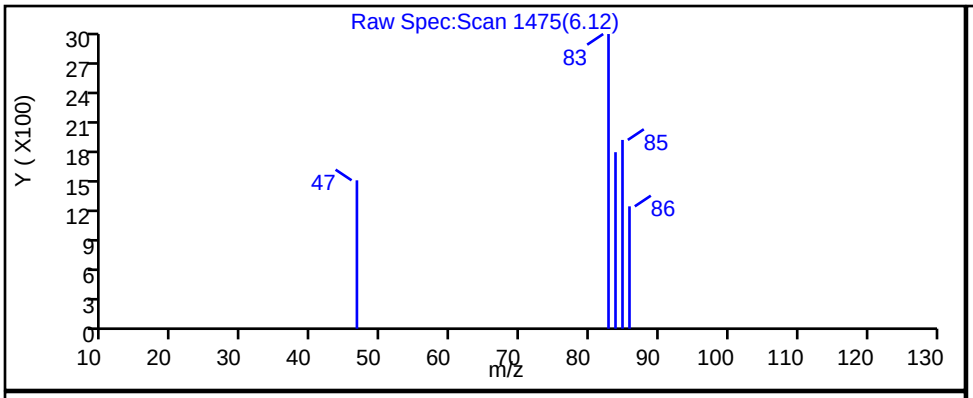


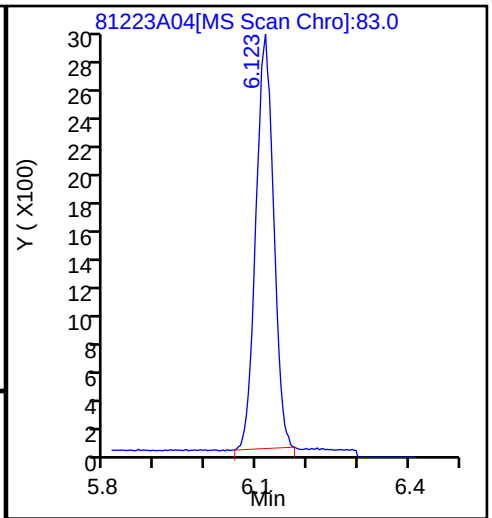
Report Date: 06-Jan-2016 11:35:06 AIM Revision: 1.0 26-May-2015 13:41:26

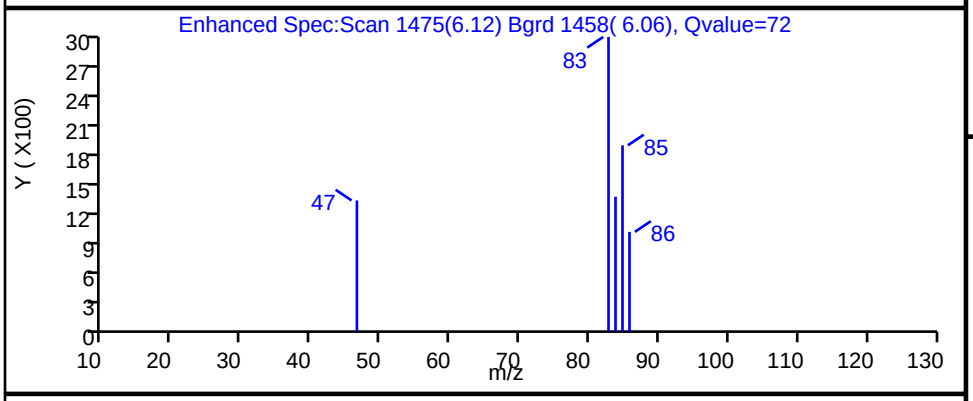
Shealy Environmental Services

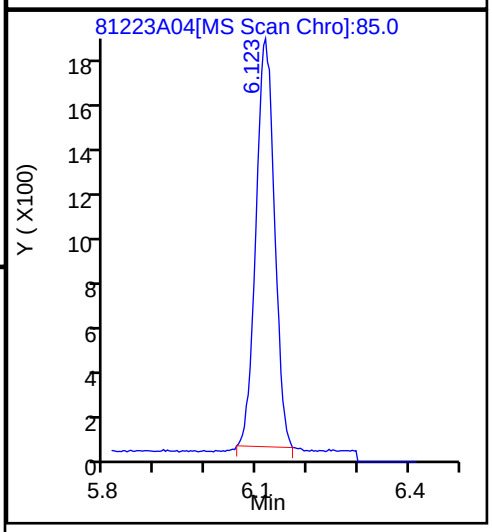
Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A04.D		
Injection Date:	23-Dec-2015 13:56:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122315.b, QL16010-002,500		
Purge Vol.	1.00 ML	Dil. Factor:	500.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

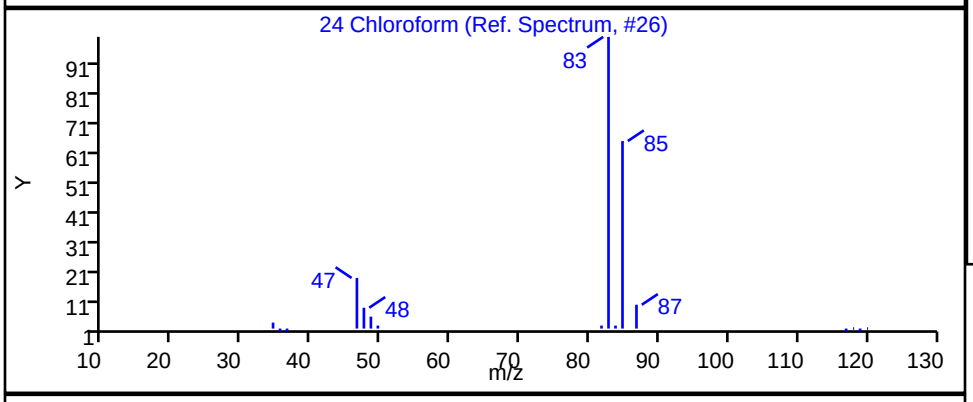
24 Chloroform

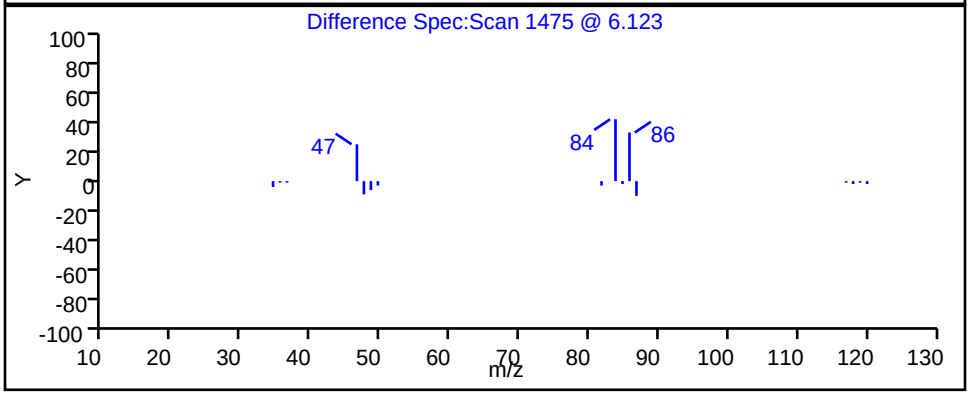










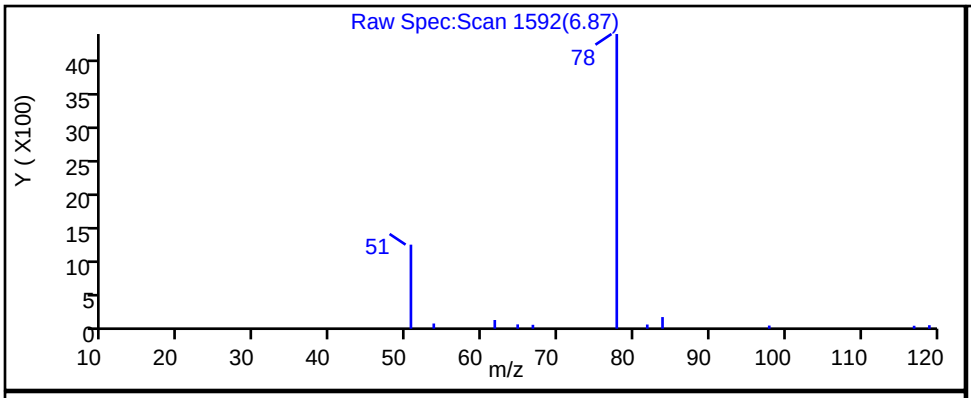


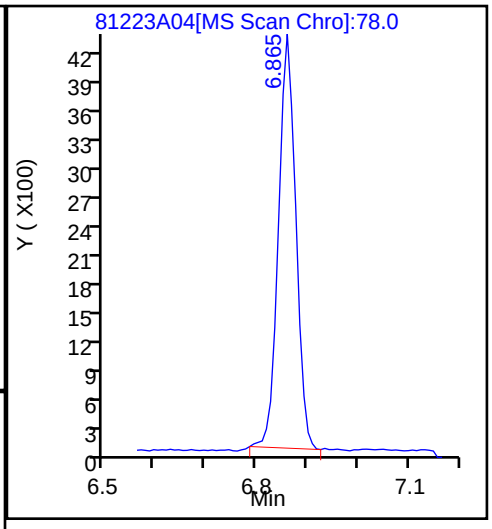
Report Date: 06-Jan-2016 11:35:06 AIM Revision: 1.0 26-May-2015 13:41:26

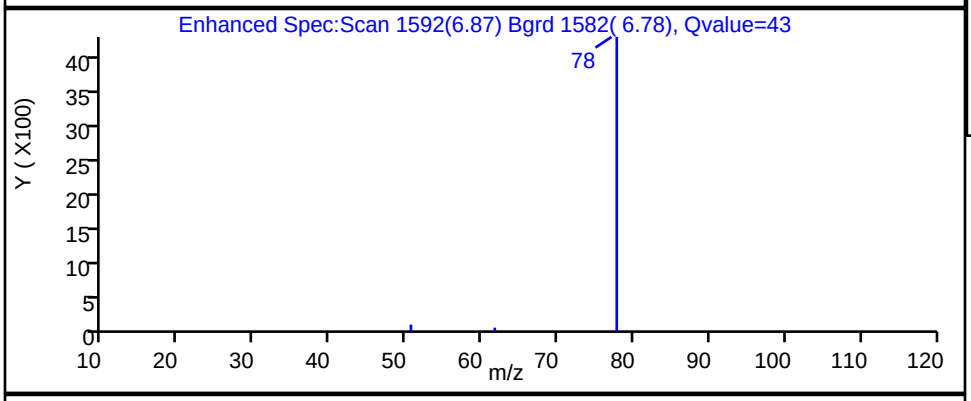
Shealy Environmental Services

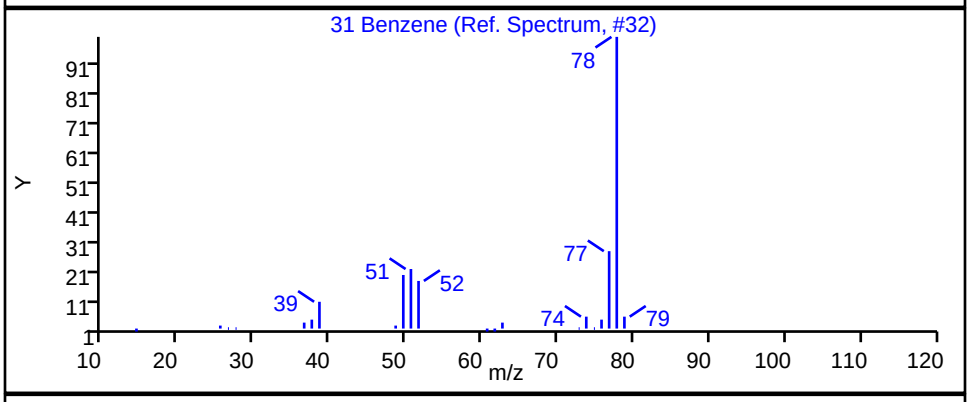
Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A04.D		
Injection Date:	23-Dec-2015 13:56:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122315.b, QL16010-002,500		
Purge Vol.	1.00 ML	Dil. Factor:	500.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

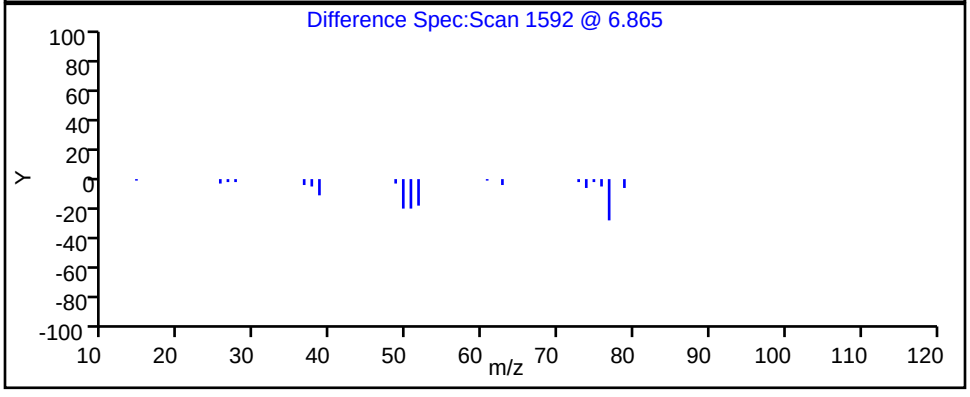
31 Benzene











Report Date: 06-Jan-2016 11:35:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

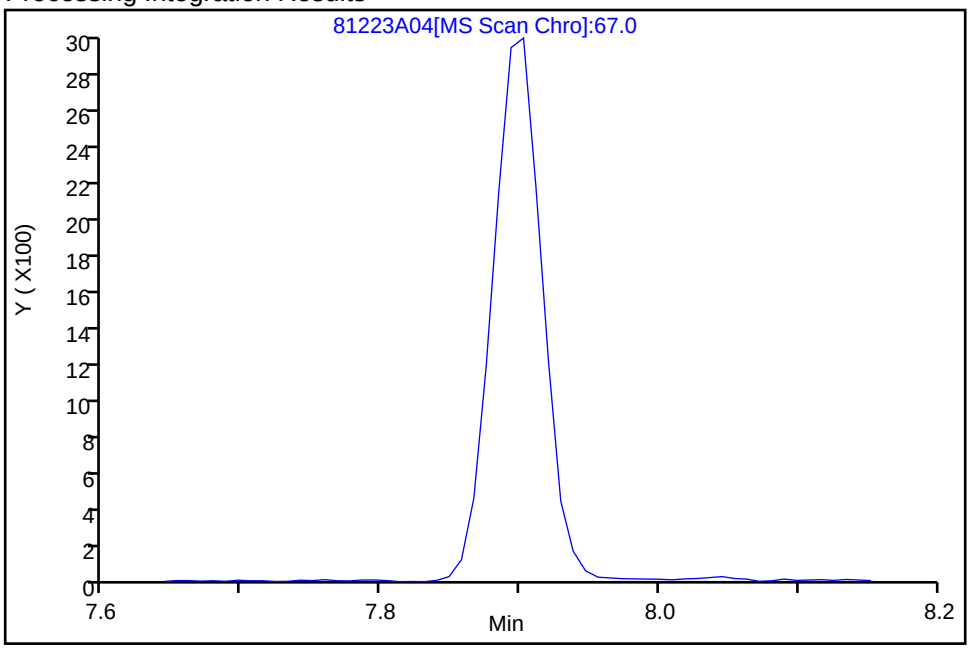
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A04.D		
Injection Date:	23-Dec-2015 13:56:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122315.b, QL16010-002,500		
Purge Vol.	1.00 ML	Dil. Factor:	500.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

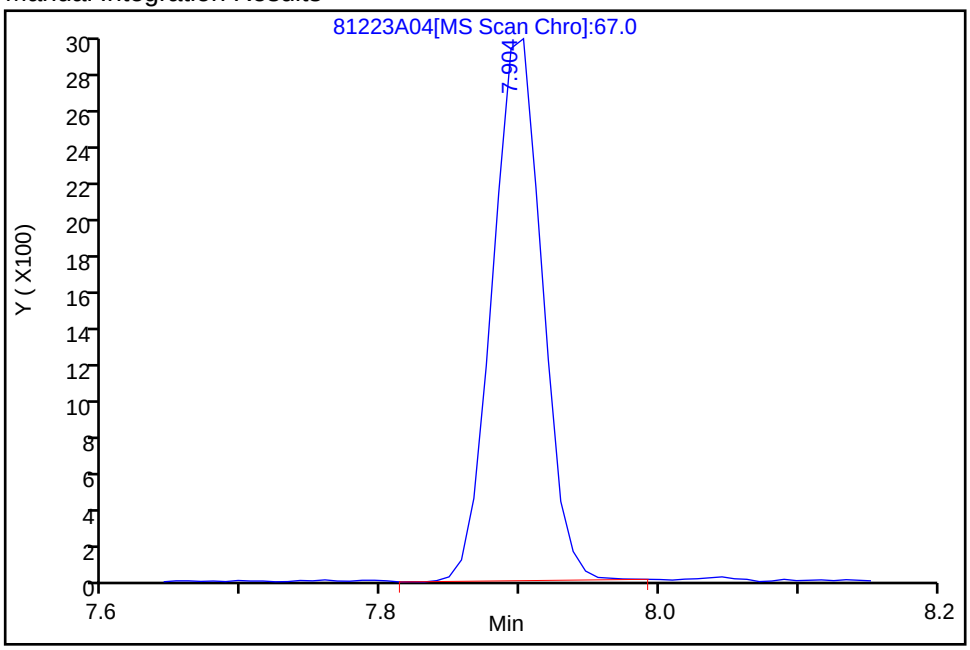
Processing Integration Results

Not Detected
7.904



Manual Integration Results

RT:	7.904
Area:	7130
Conc:	12.553
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 14:25:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:35:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

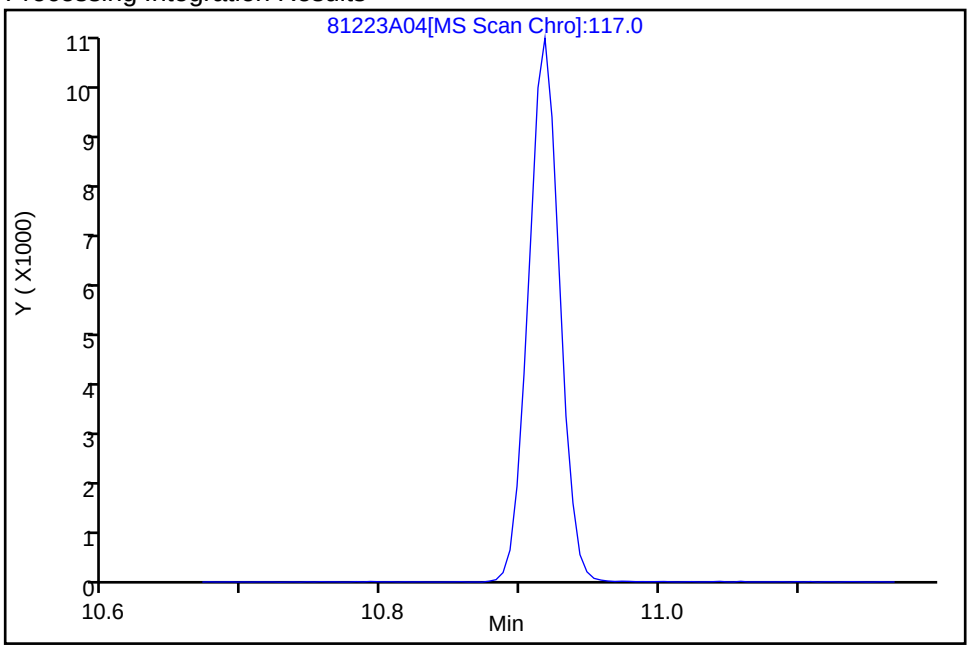
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A04.D		
Injection Date:	23-Dec-2015 13:56:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122315.b, QL16010-002,500		
Purge Vol.	1.00 ML	Dil. Factor:	500.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

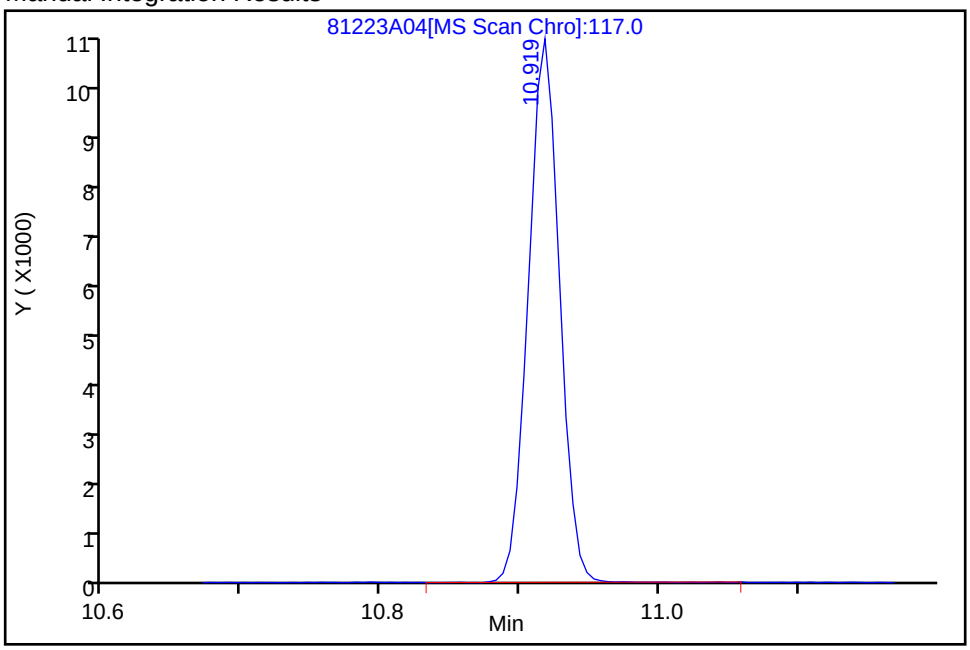
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	16755
Conc:	6250.00
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 14:25:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:35:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

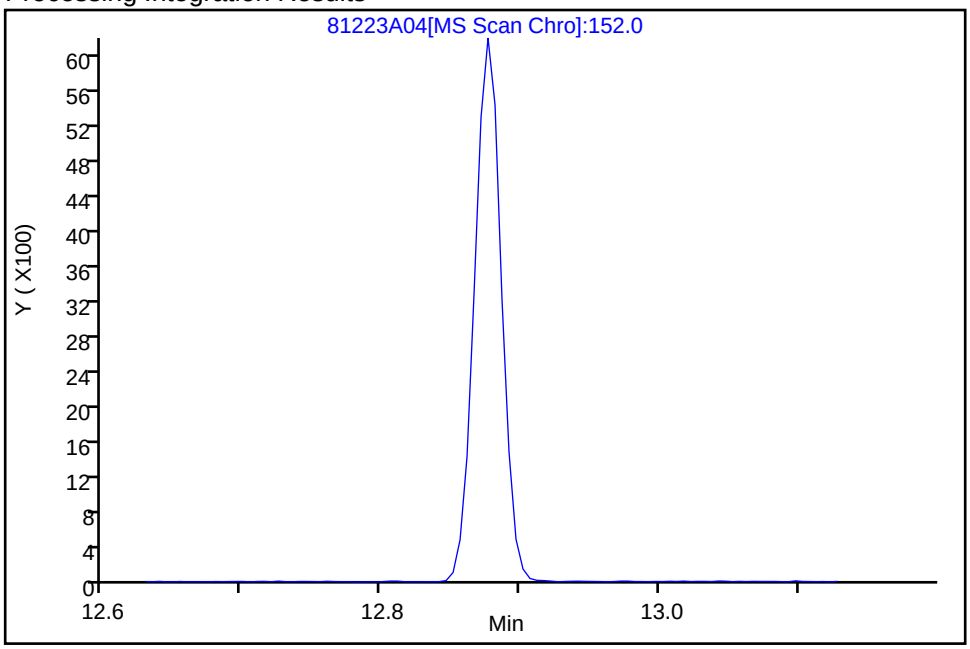
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A04.D		
Injection Date:	23-Dec-2015 13:56:30	Inst. ID:	msd8.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	8122315.b, QL16010-002,500		
Purge Vol.	1.00 ML	Dil. Factor:	500.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

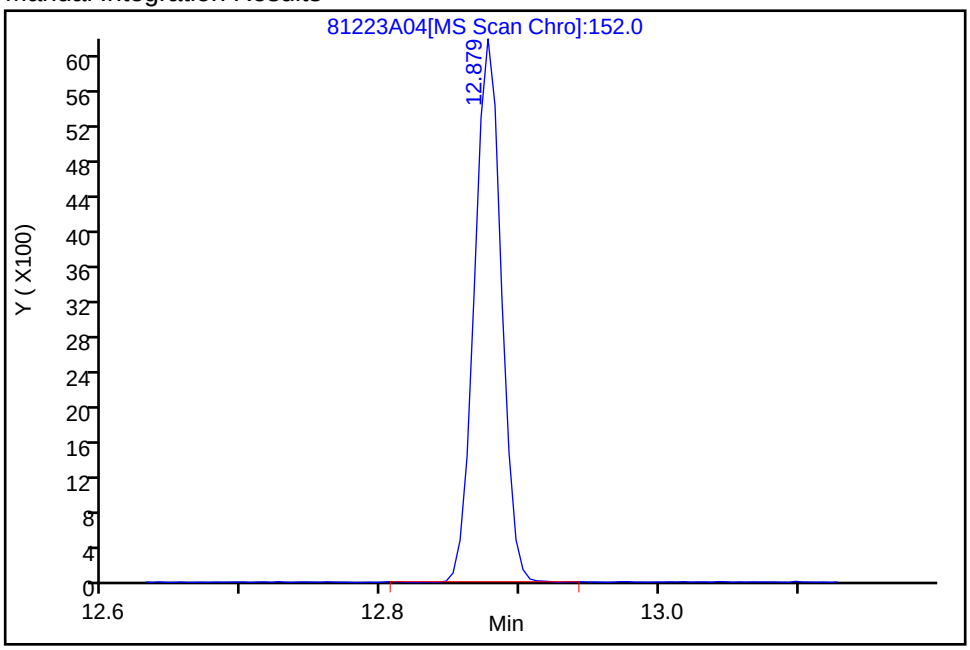
Processing Integration Results

Not Detected
12.878



Manual Integration Results

RT:	12.879
Area:	8150
Conc:	6250.00
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 14:25:30
Audit Action: Mint
Audit Reason: NOID

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222C16

% Solids: Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted:

GC Column: ID: (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) Extract Volume: (uL)

Soil Aliquot (VOA): (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 5.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
67-66-3	Chloroform	0.39	B
56-23-5	Carbon tetrachloride	0.25	U
71-43-2	Benzene	15	E
107-06-2	1,2-Dichloroethane	0.25	U
78-87-5	1,2-Dichloropropane	0.25	U
75-27-4	Bromodichloromethane	0.25	U
10061-01-5	cis-1,3-Dichloropropene	0.25	U
79-00-5	1,1,2-Trichloroethane	0.25	U
591-78-6	2-Hexanone	2.5	U
106-93-4	1,2-Dibromoethane	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	0.25	U
106-46-7	1,4-Dichlorobenzene	0.25	U
96-12-8	1,2-Dibromo-3-chloropropane	0.25	U
120-82-1	1,2,4-Trichlorobenzene	0.25	U
87-61-6	1,2,3-Trichlorobenzene	0.25	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C16.D		
Lab Sample ID:	QL16010-003	Client Sample ID:	F6R33
Injection Date:	23-Dec-2015 10:52:30	Dil. Factor:	5.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, QL16010-003,5		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	16
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	5.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 12:26:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 23 Chloroform-d	84.0	6.096	6.093	0.003	15518	0.49696	0.49690	Q
24 Chloroform	83.0	6.123	6.123	0.000	7099	0.07892	0.39450	
27 Carbon Tetrachloride	117.0		6.596		ND			
$ 29 1,2-Dichloroethane-d4	65.0	6.784	6.776	0.008	4666	0.47335	0.47330	M
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	19878	0.49498	0.49490	Q
31 Benzene	78.0	6.865	6.865	0.000	143039	3.0325	15.162	E
32 1,2-Dichloroethane	62.0		6.882		ND			
* 33 1,4-Difluorobenzene	114.0	7.371	7.372	-0.001	19387	0.50000	2.5000	
$ 35 1,2-Dichloropropane-d6	67.0	7.904	7.904	0.000	6426	0.50876	0.50870	M
37 1,2-Dichloropropane	63.0		8.020		ND			
39 Bromodichloromethane	83.0		8.384		ND			
40 cis-1,3-Dichloropropene	75.0		8.996		ND			
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	4123	0.45652	0.45650	Q
46 1,1,2-Trichloroethane	97.0		9.906		ND			
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4234	4.2639	4.2639	Q
50 2-Hexanone	43.0		10.184		ND			
52 1,2-Dibromoethane	107.0		10.459		ND			
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	14904	0.50000	2.5000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	2579	0.47148	0.47140	Q
64 1,1,2,2-Tetrachloroethane	83.0		12.069		ND			
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	7932	0.50000	2.5000	M
77 1,4-Dichlorobenzene	146.0		13.173		ND			
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	6845	0.50161	0.50160	Q
80 1,2-Dibromo-3-chloropropane	75.0		13.722		ND			
82 1,2,4-Trichlorobenzene	180.0		14.302		ND			
84 1,2,3-Trichlorobenzene	180.0		14.674		ND			

QC Flag Legend

Processing Flags

E - Compound Concentration Exceeds Max. Calibration Range

Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services

Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C16.D		
Lab Sample ID:	QL16010-003	Client Sample ID:	F6R33
Injection Date:	23-Dec-2015 10:52:30	Dil. Factor:	5.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, QL16010-003,5		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	16
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	5.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 12:26:30

Tentative Identified Compound Results

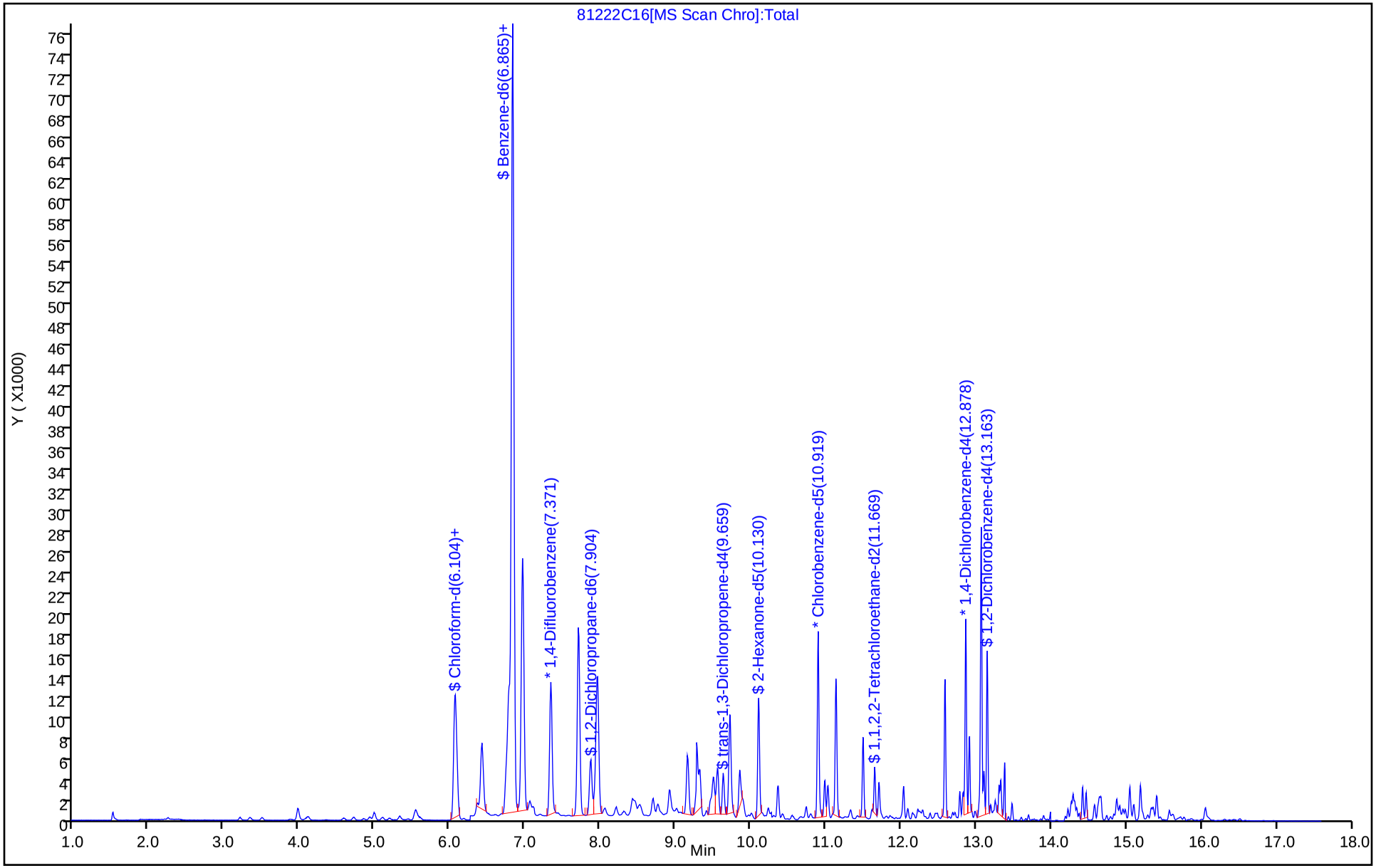
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 06-Jan-2016 11:38:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C16.D				
Injection Date:	23-Dec-2015 10:52:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	F6R33	Lab ID:	QL16010-003		
Sample Info:	8122215C.b, QL16010-003,5				
Purge Vol.	25 ML	Dil. Factor:	5.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

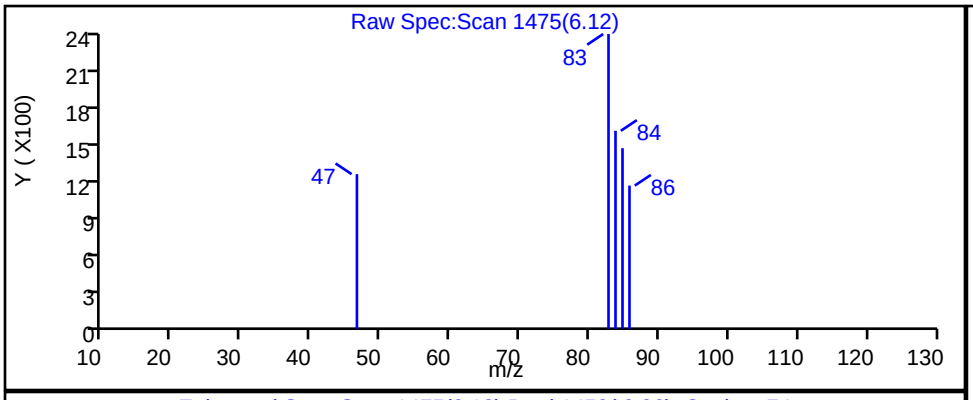


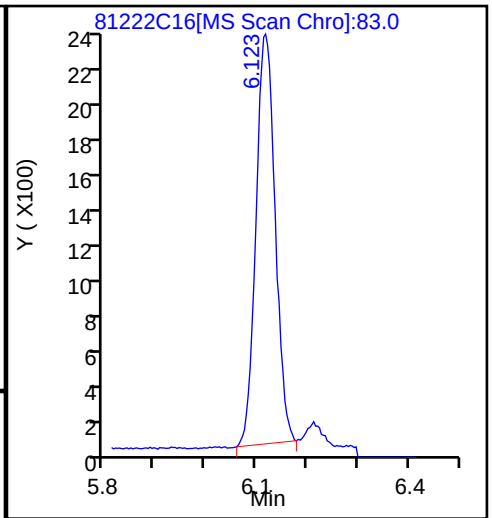
Report Date: 06-Jan-2016 11:38:23 AIM Revision: 1.0 26-May-2015 13:41:26

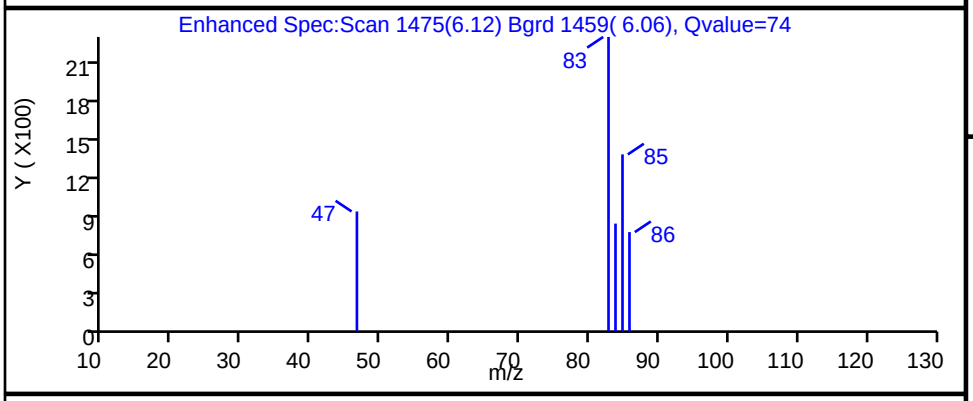
Shealy Environmental Services

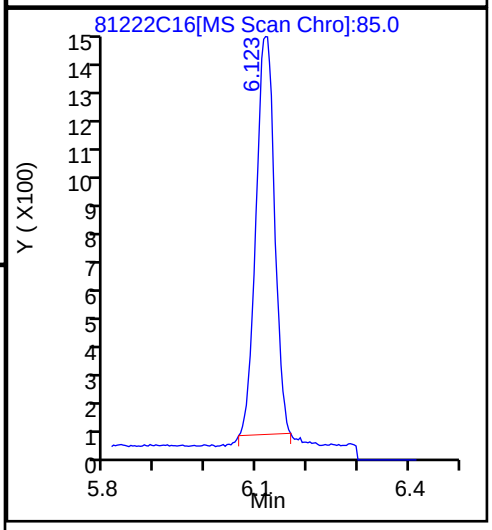
Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C16.D		
Injection Date:	23-Dec-2015 10:52:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122215C.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

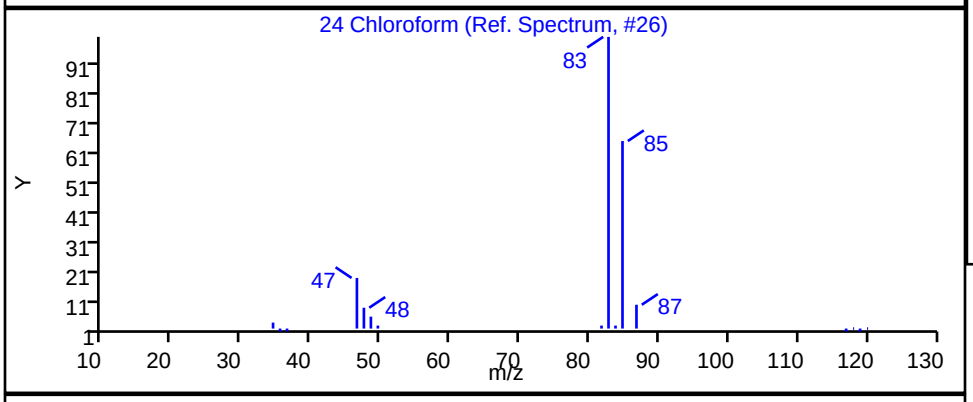
24 Chloroform

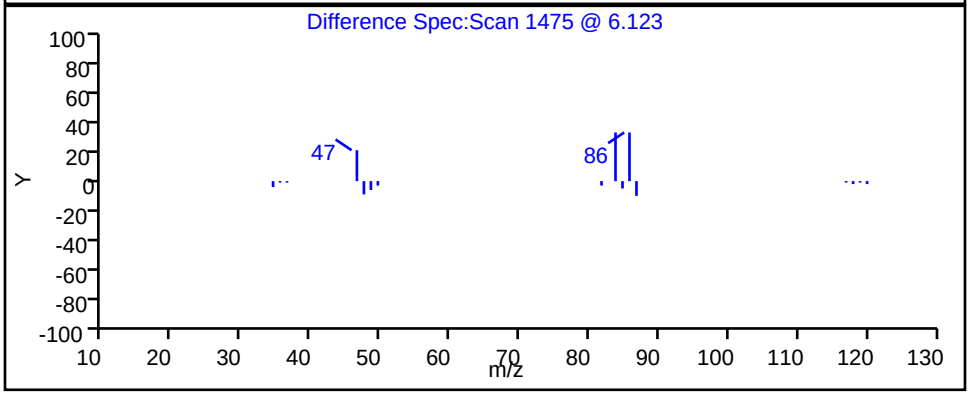










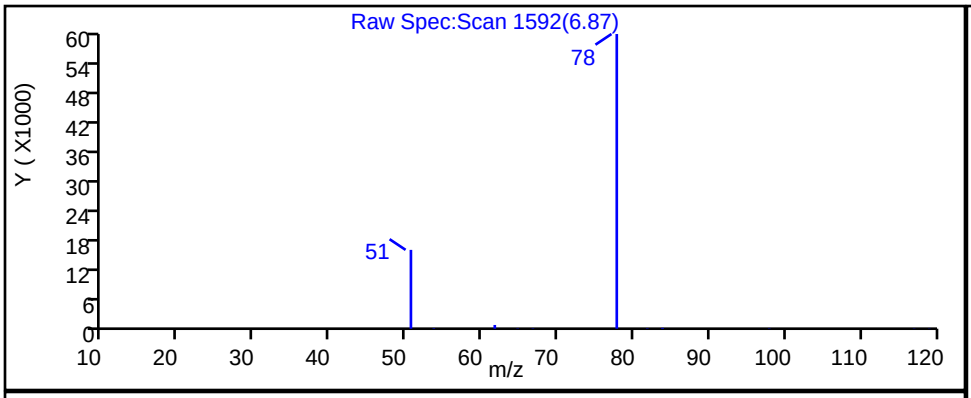


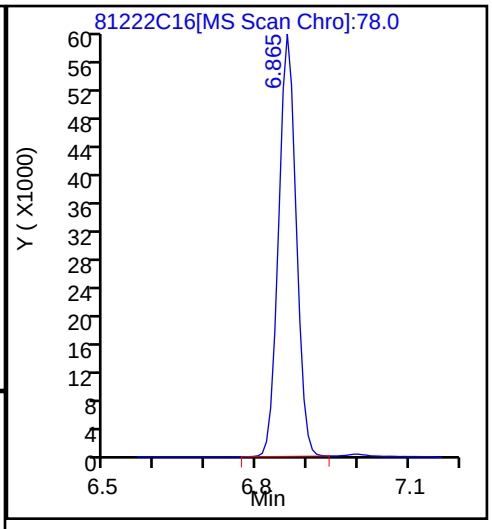
Report Date: 06-Jan-2016 11:38:23 AIM Revision: 1.0 26-May-2015 13:41:26

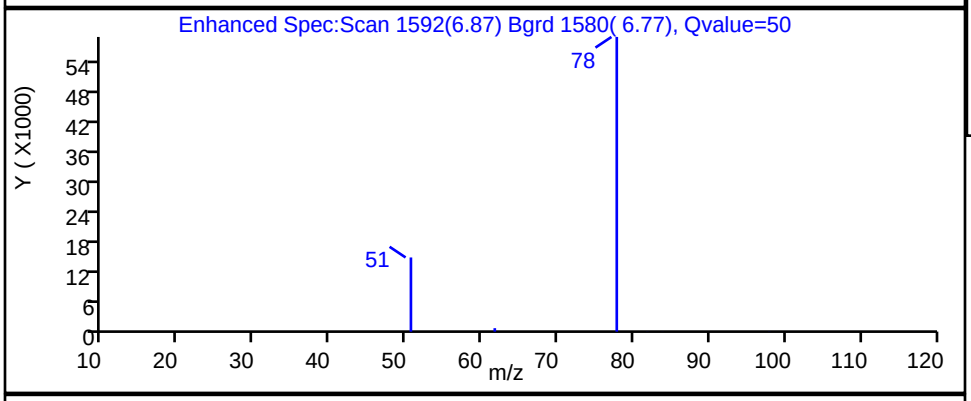
Shealy Environmental Services

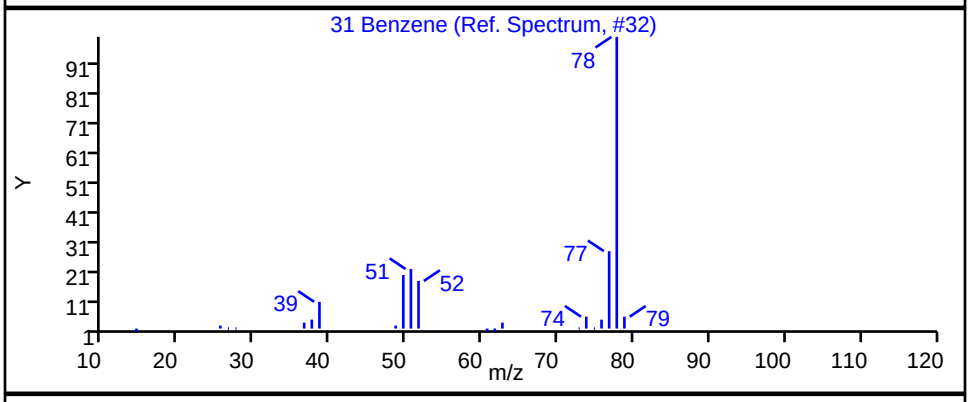
Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C16.D		
Injection Date:	23-Dec-2015 10:52:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122215C.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

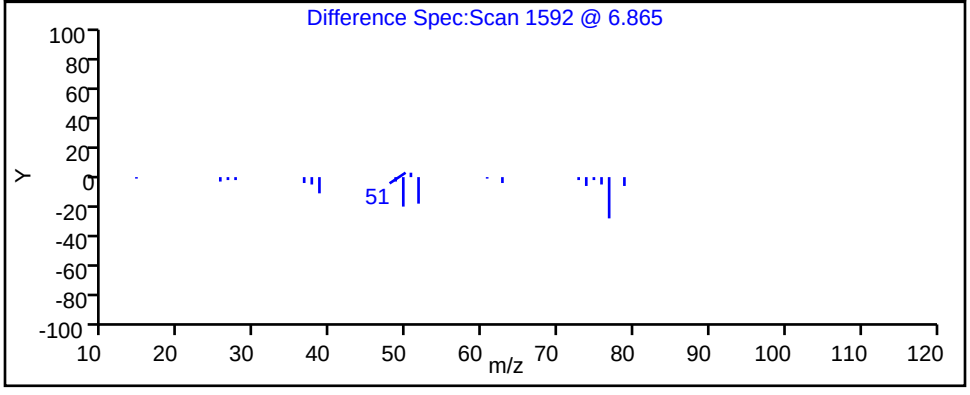
31 Benzene











Report Date: 06-Jan-2016 11:38:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

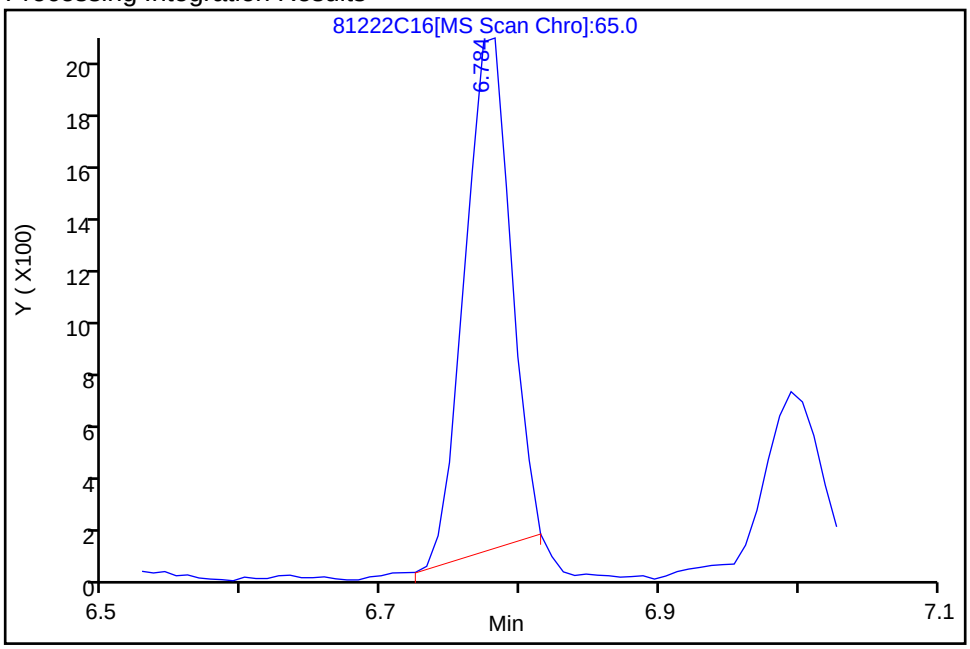
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C16.D		
Injection Date:	23-Dec-2015 10:52:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122215C.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 29 1,2-Dichloroethane-d4, CAS: 17060-07-0

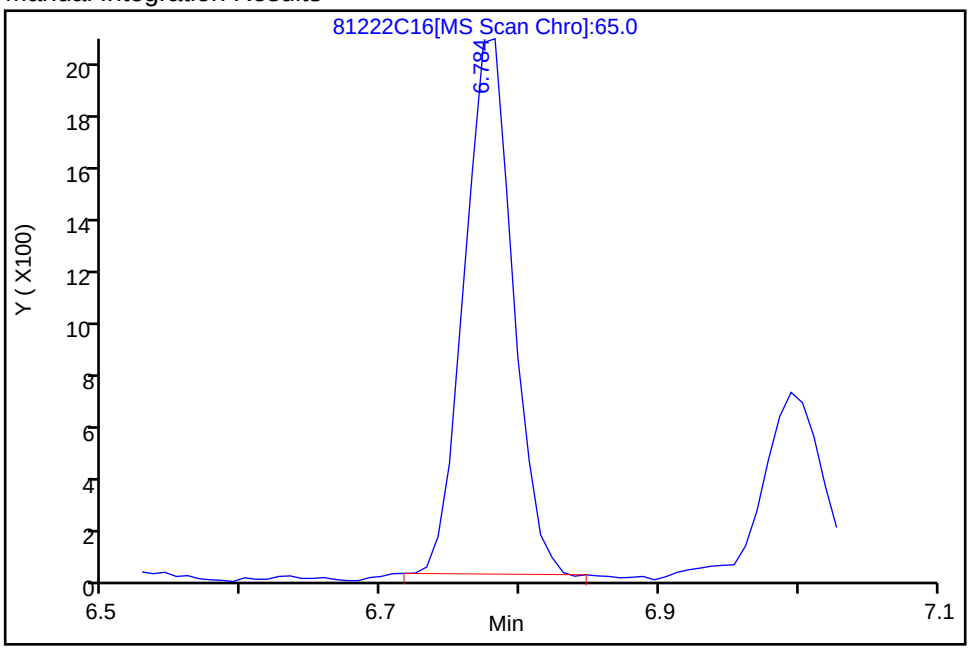
Processing Integration Results

RT: 6.784
Area: 4130
Conc: 0.41890
Conc Units: ug/L
Conc:



Manual Integration Results

RT: 6.784
Area: 4666
Conc: 0.47330
Conc Units: ug/L



Data Editor: pap, 23-Dec-2015 12:25:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 06-Jan-2016 11:38:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

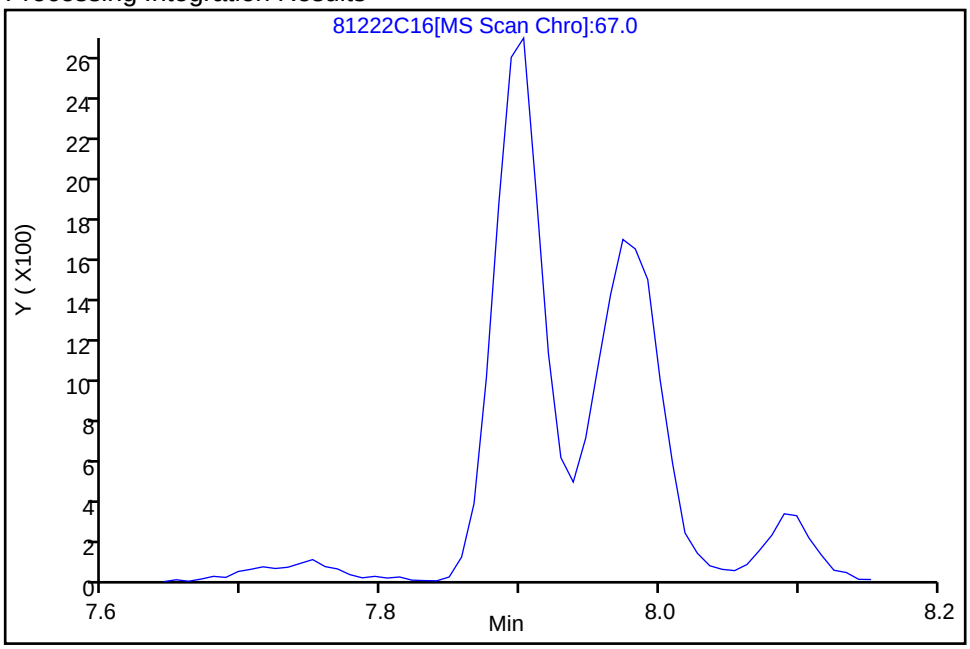
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C16.D		
Injection Date:	23-Dec-2015 10:52:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122215C.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

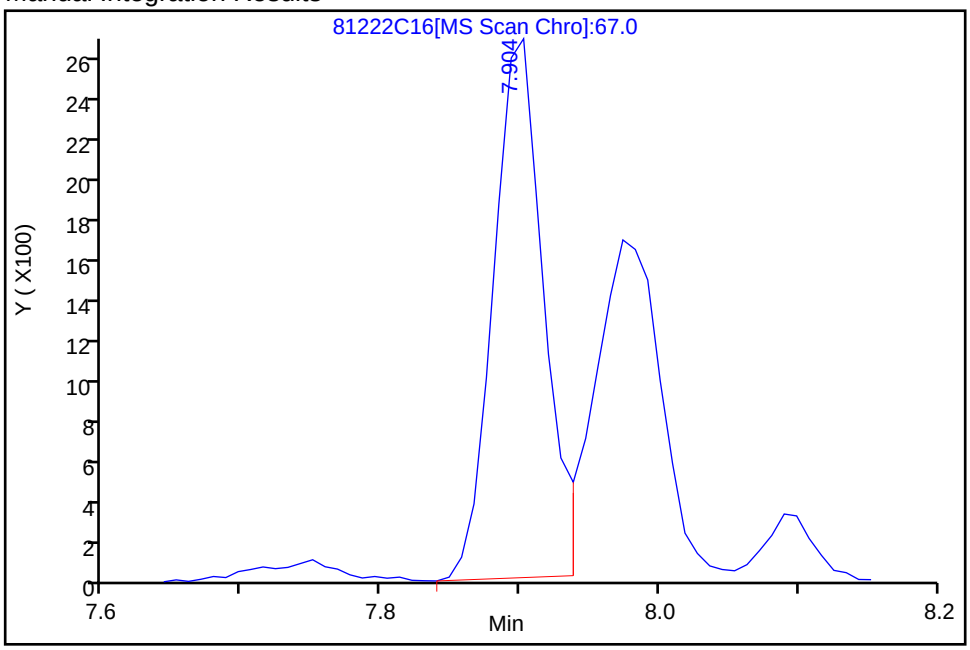
Not Detected
7.904

Processing Integration Results



Manual Integration Results

RT:	7.904
Area:	6426
Conc:	0.50870
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:50:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

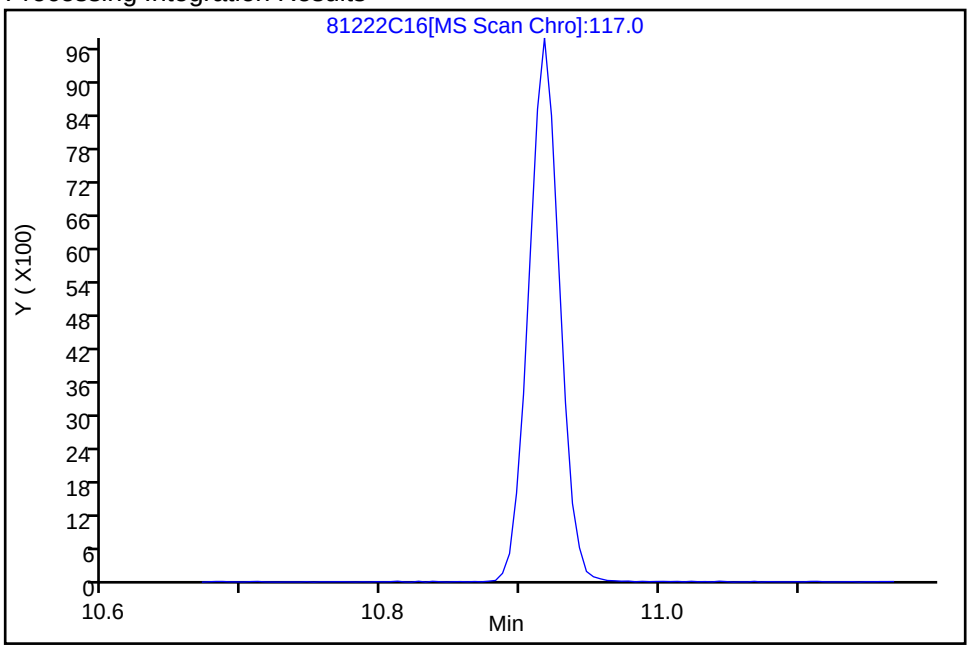
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C16.D		
Injection Date:	23-Dec-2015 10:52:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122215C.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

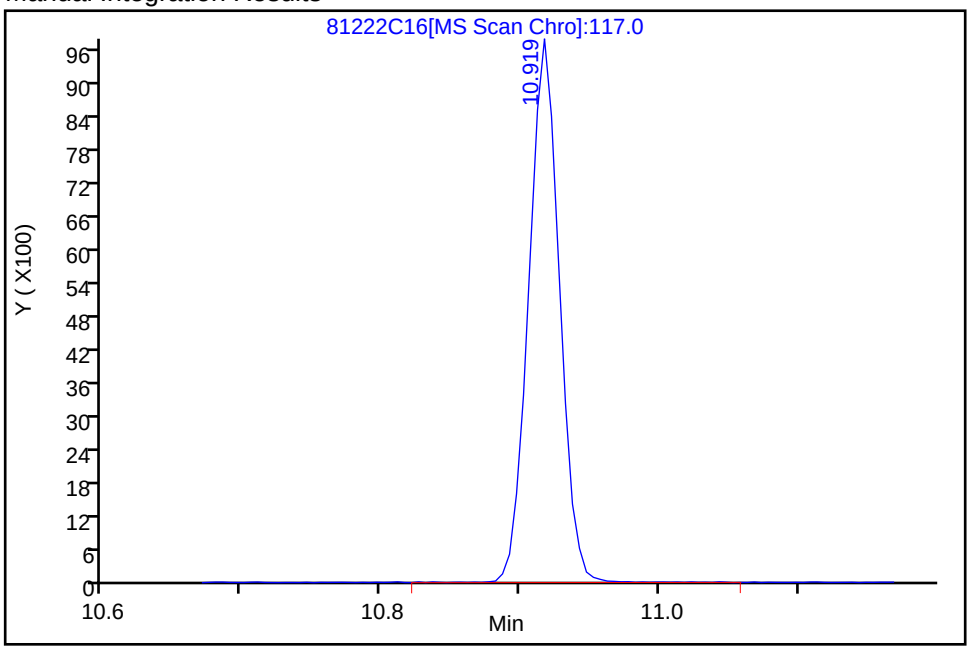
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	14904
Conc:	2.5000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:26:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

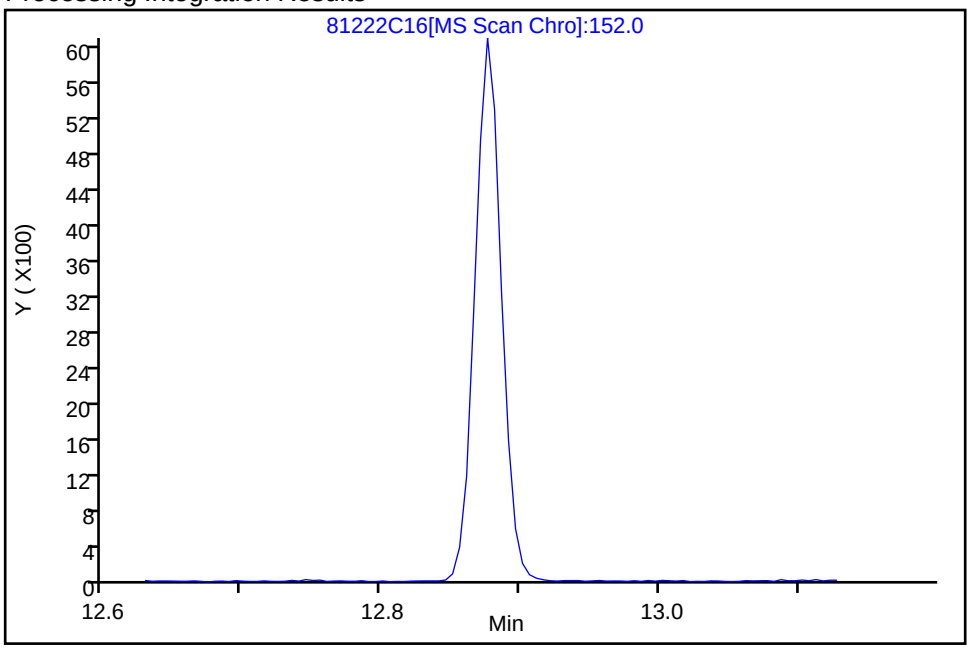
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C16.D		
Injection Date:	23-Dec-2015 10:52:30	Inst. ID:	msd8.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	8122215C.b, QL16010-003,5		
Purge Vol.	25 ML	Dil. Factor:	5.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

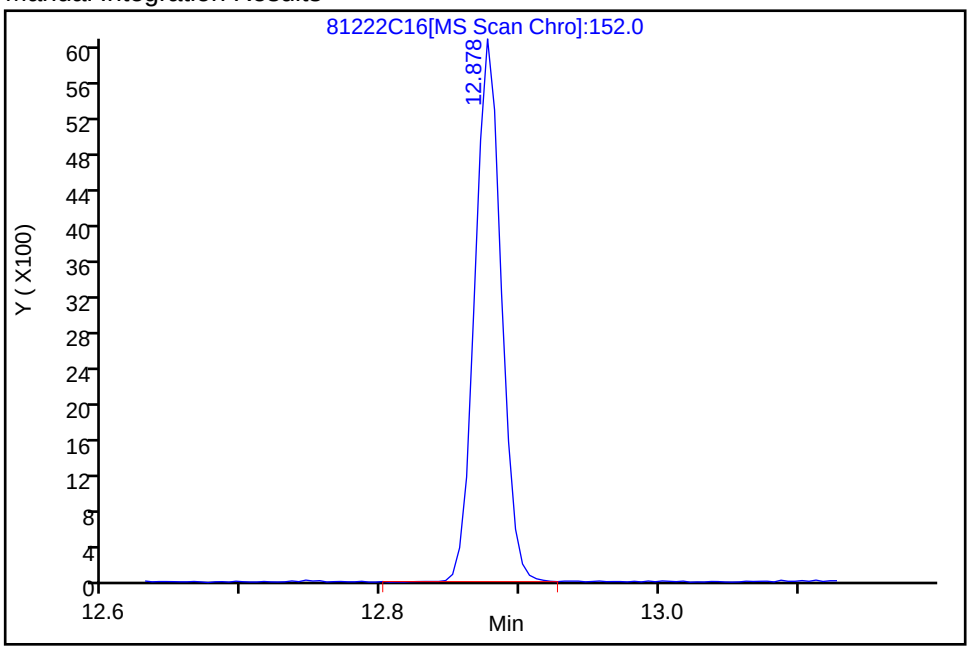
Processing Integration Results

Not Detected
12.878



Manual Integration Results

RT:	12.878
Area:	7932
Conc:	2.5000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:26:30
Audit Action: Mint
Audit Reason: NOID

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R34

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QL16010-004

Sample wt/vol: 1.00 (g/mL) mL Lab File ID: 81223A03

% Solids: Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted:

GC Column: ID: (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) Extract Volume: (uL)

Soil Aliquot (VOA): (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: (uL)

Purge Volume: 1.0 (mL) pH: 2 Dilution Factor: 20.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
67-66-3	Chloroform	1.6	B
56-23-5	Carbon tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	10	U
106-93-4	1,2-Dibromoethane	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A03.D		
Lab Sample ID:	QL16010-004	Client Sample ID:	F6R34
Injection Date:	23-Dec-2015 13:29:30	Dil. Factor:	20.0
Operator:	PAP	Inst. ID:	msd8.i
Sample Info:	8122315.b, QL16010-004,20		
Method:	\\Organics\DD\chem\msd8.i\8122315.b\SIM2545-8.m		
Method Date:	23-Dec-2015 12:14:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	4
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 13:49:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 23 Chloroform-d	84.0	6.096	6.096	0.000	15910	0.49750	0.49740	Q
24 Chloroform	83.0	6.119	6.123	-0.004	7345	0.07973	1.5945	
27 Carbon Tetrachloride	117.0		6.596		ND			
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	5056	0.50082	0.50080	
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	20658	0.51375	0.51370	
31 Benzene	78.0		6.865		ND			
32 1,2-Dichloroethane	62.0		6.882		ND			
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	19855	0.50000	10.000	M
$ 35 1,2-Dichloropropane-d6	67.0	7.895	7.904	-0.009	6974	0.55144	0.55140	M
37 1,2-Dichloropropane	63.0		8.020		ND			
39 Bromodichloromethane	83.0		8.384		ND			
40 cis-1,3-Dichloropropene	75.0		8.996		ND			
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	4559	0.50415	0.50410	
46 1,1,2-Trichloroethane	97.0		9.906		ND			
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4449	4.4747	4.4747	Q
50 2-Hexanone	43.0		10.179		ND			
52 1,2-Dibromoethane	107.0		10.459		ND			
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	14923	0.50000	10.000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	2888	0.52730	0.52720	
64 1,1,2,2-Tetrachloroethane	83.0		12.069		ND			
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	7674	0.50000	10.000	M
77 1,4-Dichlorobenzene	146.0		12.893		ND			
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	7011	0.53105	0.53100	
80 1,2-Dibromo-3-chloropropane	75.0		13.722		ND			
82 1,2,4-Trichlorobenzene	180.0		14.302		ND			
84 1,2,3-Trichlorobenzene	180.0		14.668		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A03.D		
Lab Sample ID:	QL16010-004	Client Sample ID:	F6R34
Injection Date:	23-Dec-2015 13:29:30	Dil. Factor:	20.0
Operator:	PAP	Inst. ID:	msd8.i
Sample Info:	8122315.b, QL16010-004,20		
Method:	\\Organics\DD\chem\msd8.i\8122315.b\SIM2545-8.m		
Method Date:	23-Dec-2015 12:14:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	4
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 13:49:30

Tentative Identified Compound Results

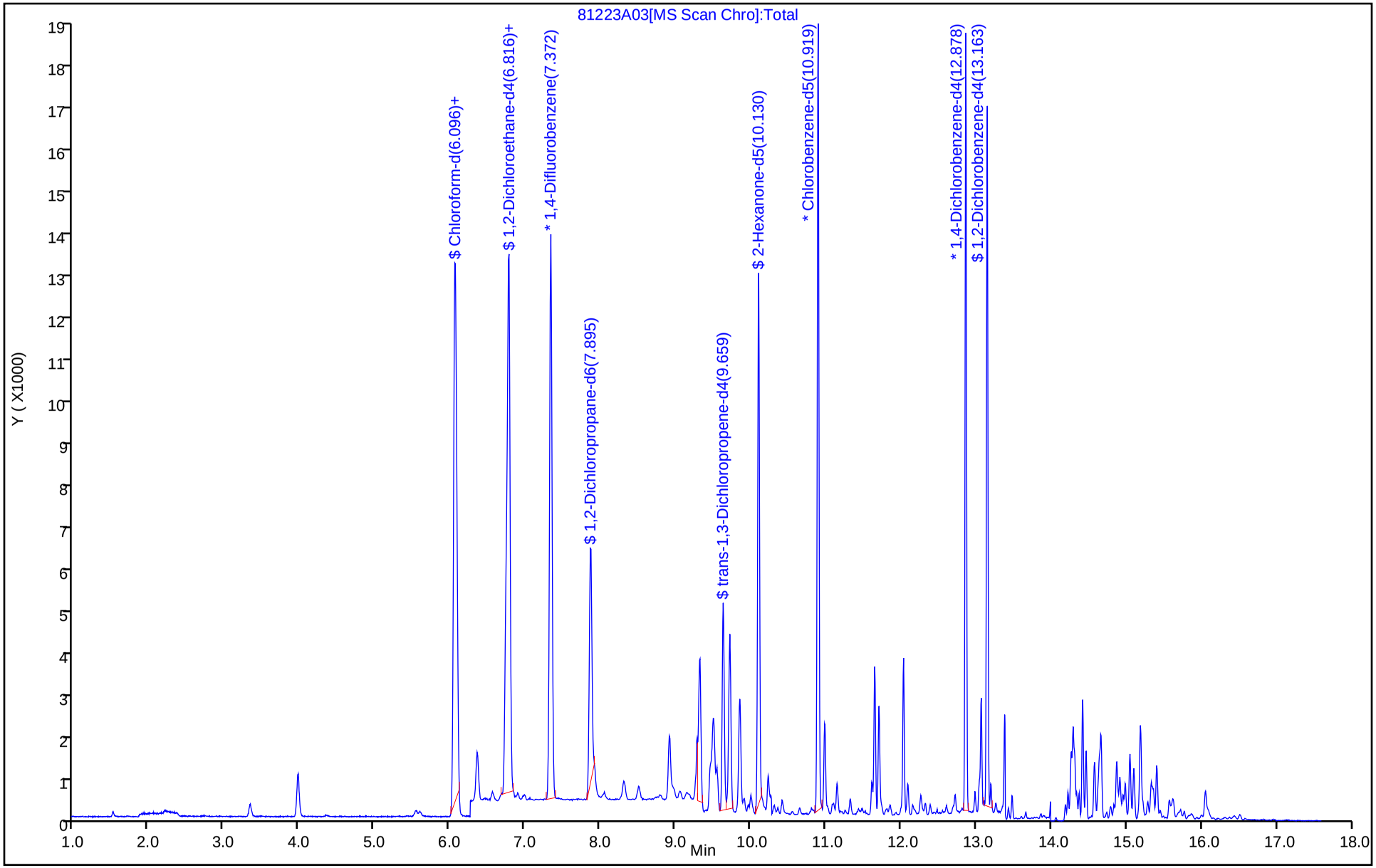
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 06-Jan-2016 11:35:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A03.D				
Injection Date:	23-Dec-2015 13:29:30	Inst. ID:	msd8.i	Operator:	PAP
Client ID:	F6R34	Lab ID:	QL16010-004		
Sample Info:	8122315.b, QL16010-004,20				
Purge Vol.	25 ML	Dil. Factor:	20.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

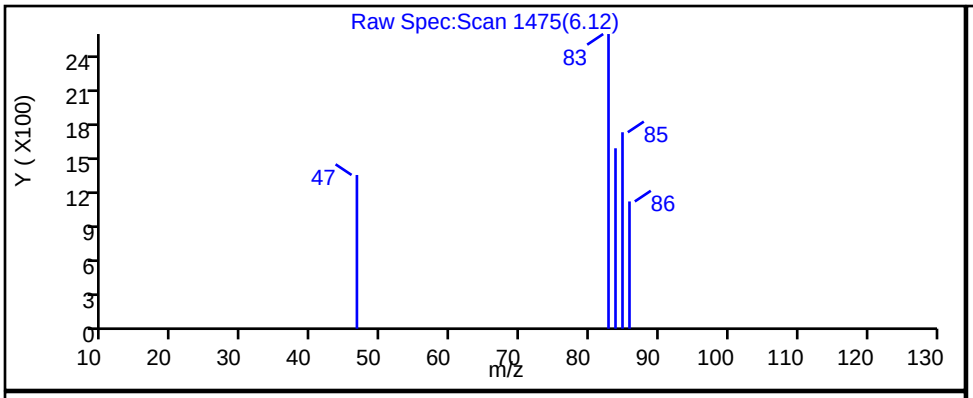


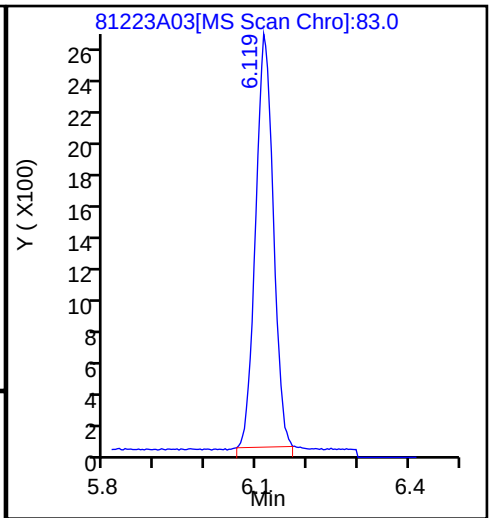
Report Date: 06-Jan-2016 11:35:05 AIM Revision: 1.0 26-May-2015 13:41:26

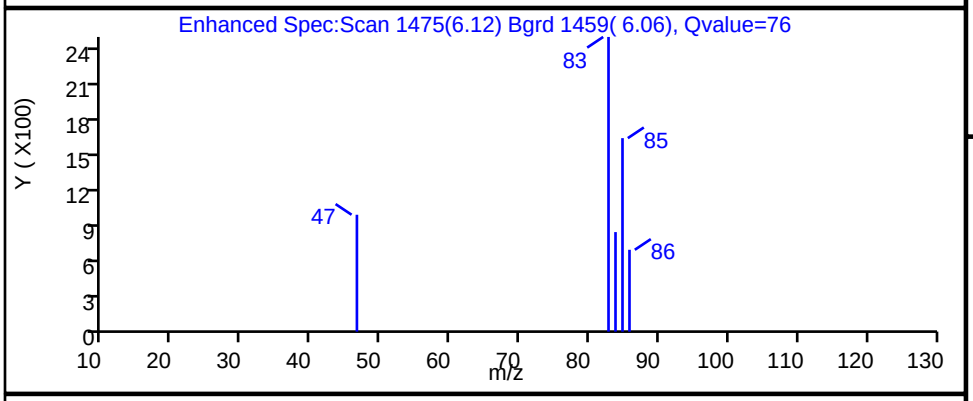
Shealy Environmental Services

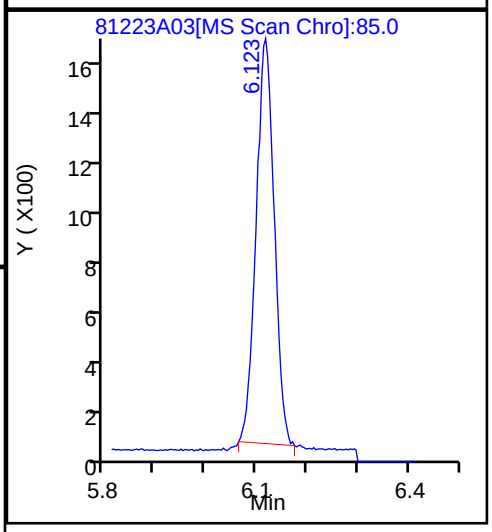
Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A03.D		
Injection Date:	23-Dec-2015 13:29:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122315.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

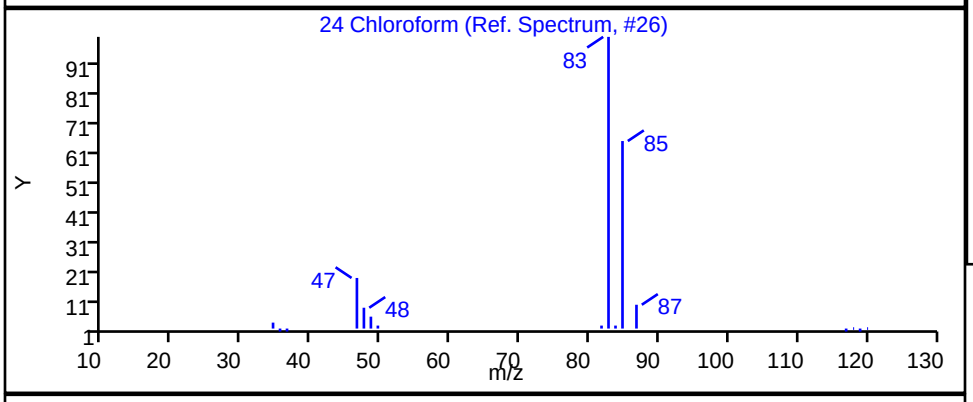
24 Chloroform

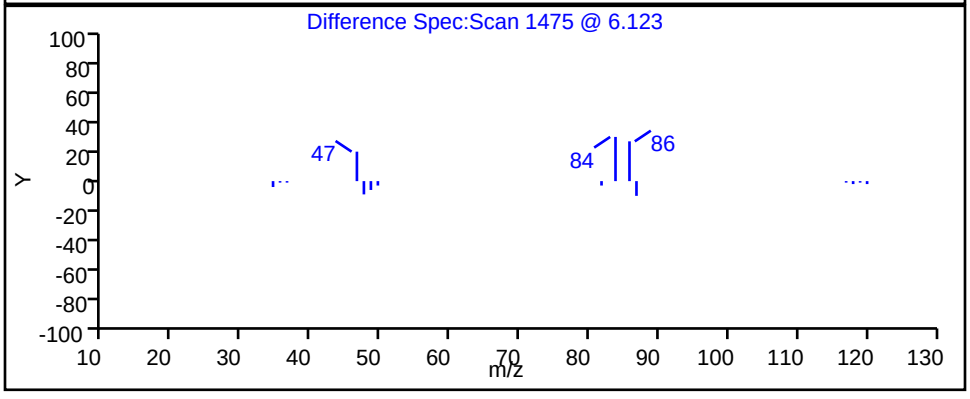












Report Date: 06-Jan-2016 11:35:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

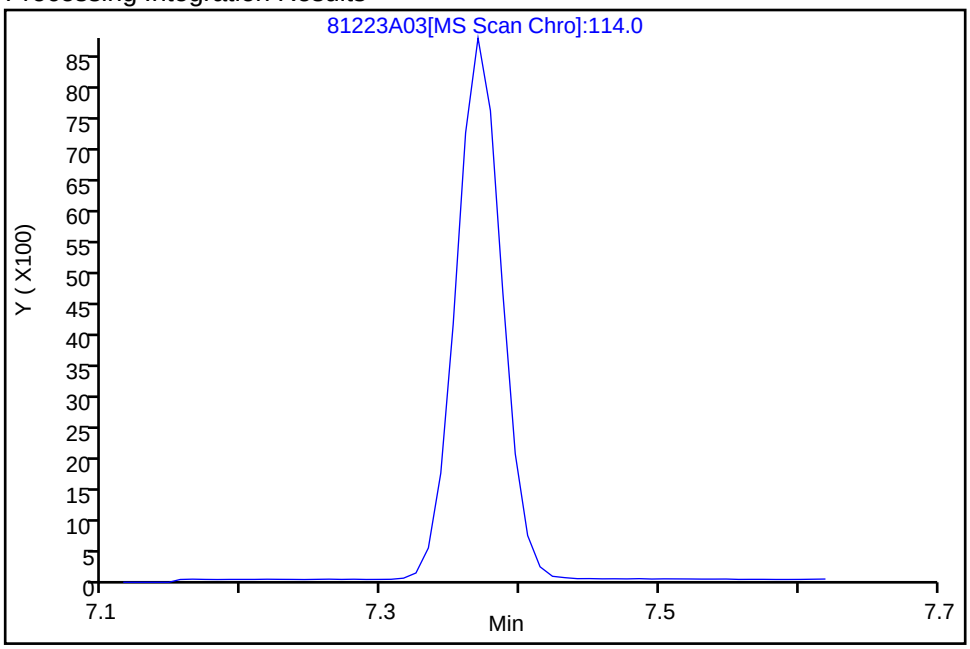
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A03.D		
Injection Date:	23-Dec-2015 13:29:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122315.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 33 1,4-Difluorobenzene, CAS: 540-36-3

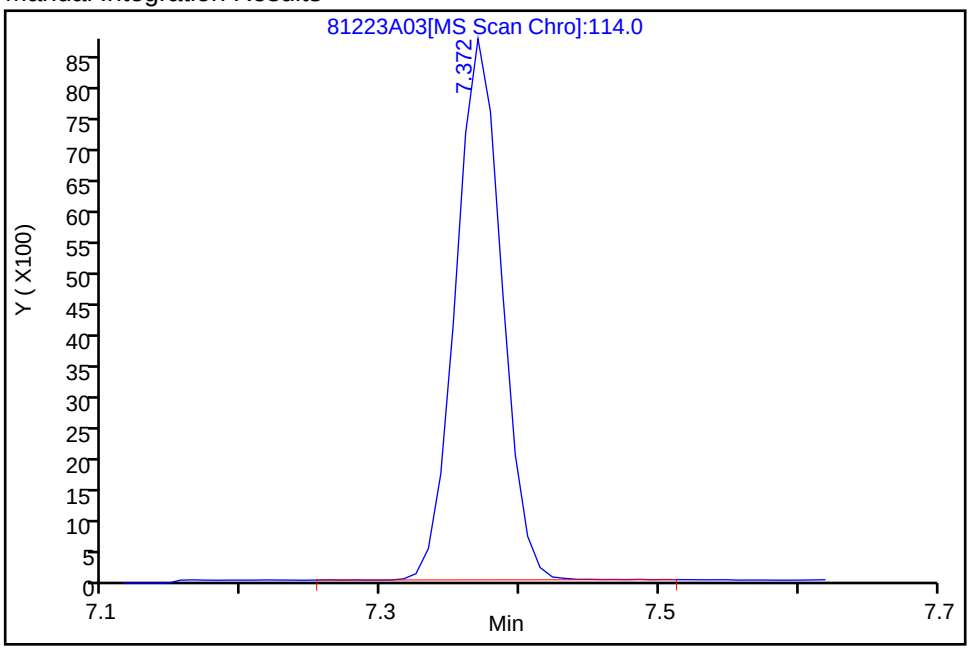
Processing Integration Results

Not Detected
7.372



Manual Integration Results

RT:	7.372
Area:	19855
Conc:	10.000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 13:48:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:35:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

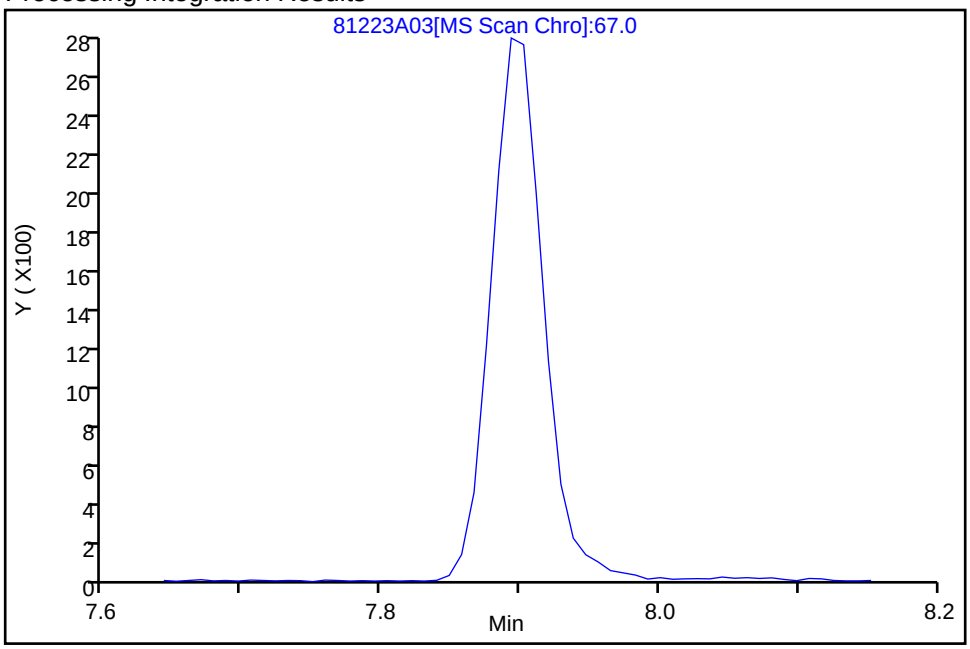
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A03.D		
Injection Date:	23-Dec-2015 13:29:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122315.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

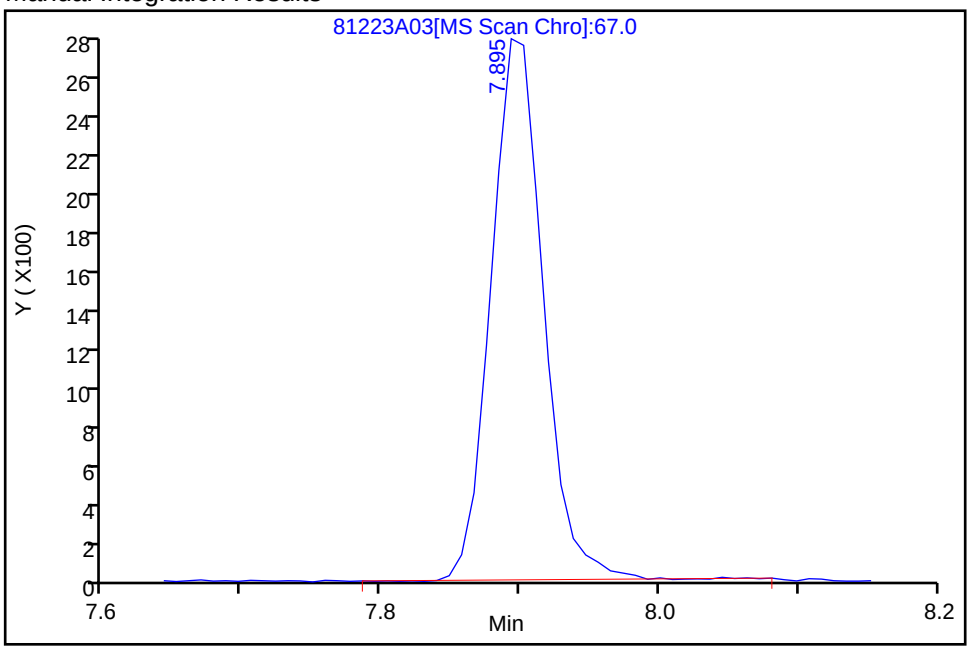
Processing Integration Results

Not Detected
7.904



Manual Integration Results

RT:	7.895
Area:	6974
Conc:	0.55140
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 13:49:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:35:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

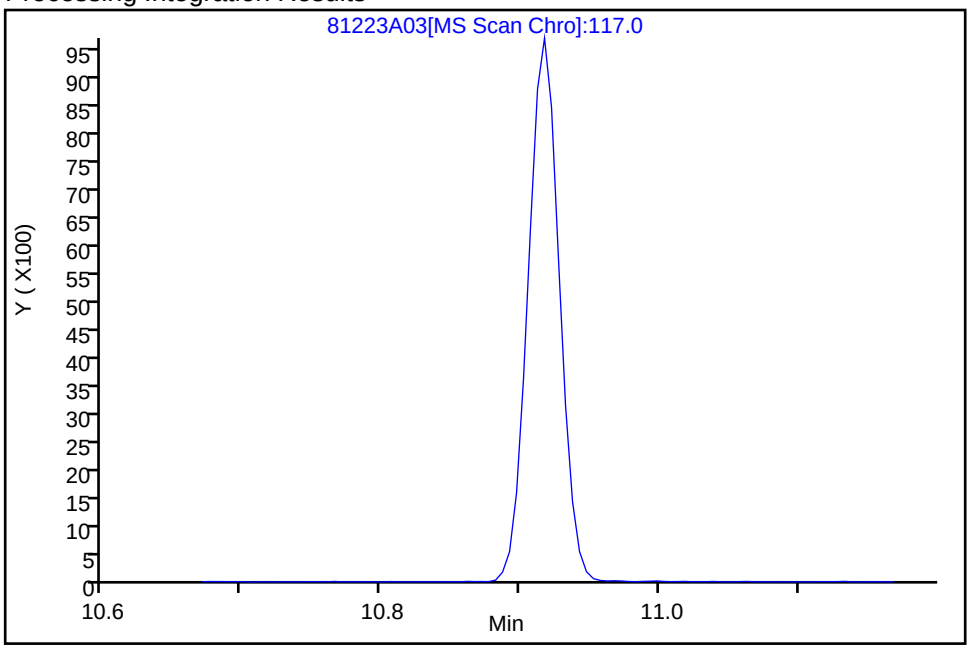
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A03.D		
Injection Date:	23-Dec-2015 13:29:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122315.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

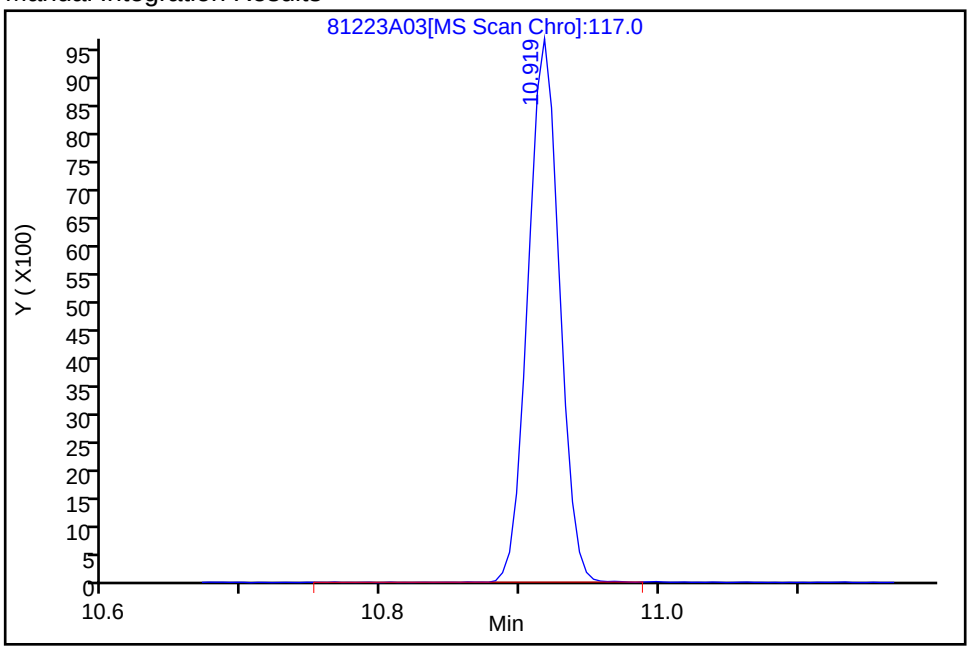
Processing Integration Results

Not Detected
10.919



Manual Integration Results

RT: 10.919
Area: 14923
Conc: 10.000
Conc Units: ug/L



Data Editor: pap, 23-Dec-2015 13:49:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:35:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

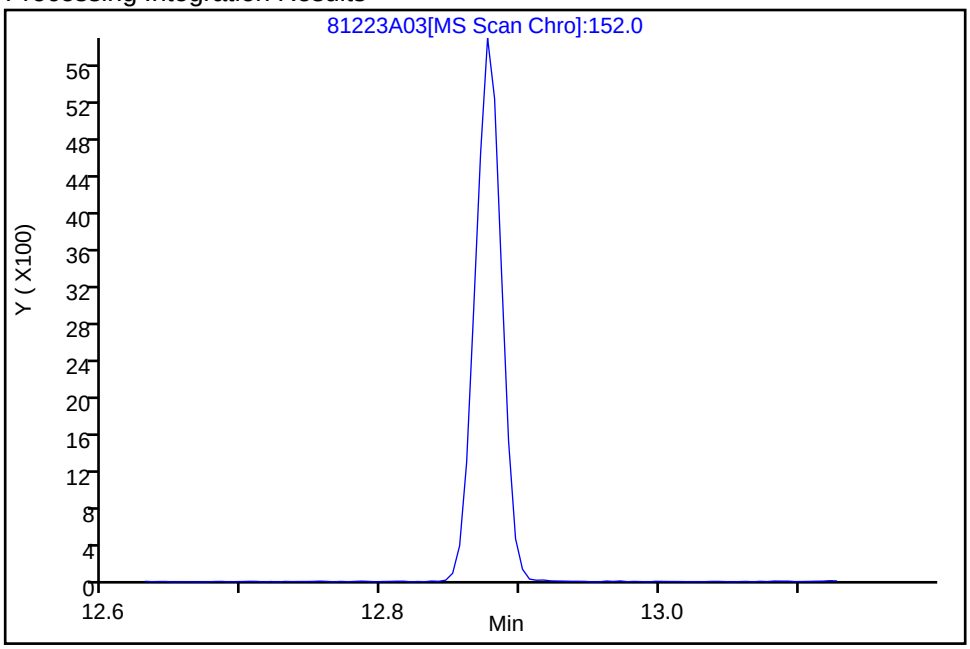
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A03.D		
Injection Date:	23-Dec-2015 13:29:30	Inst. ID:	msd8.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	8122315.b, QL16010-004,20		
Purge Vol.	25 ML	Dil. Factor:	20.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

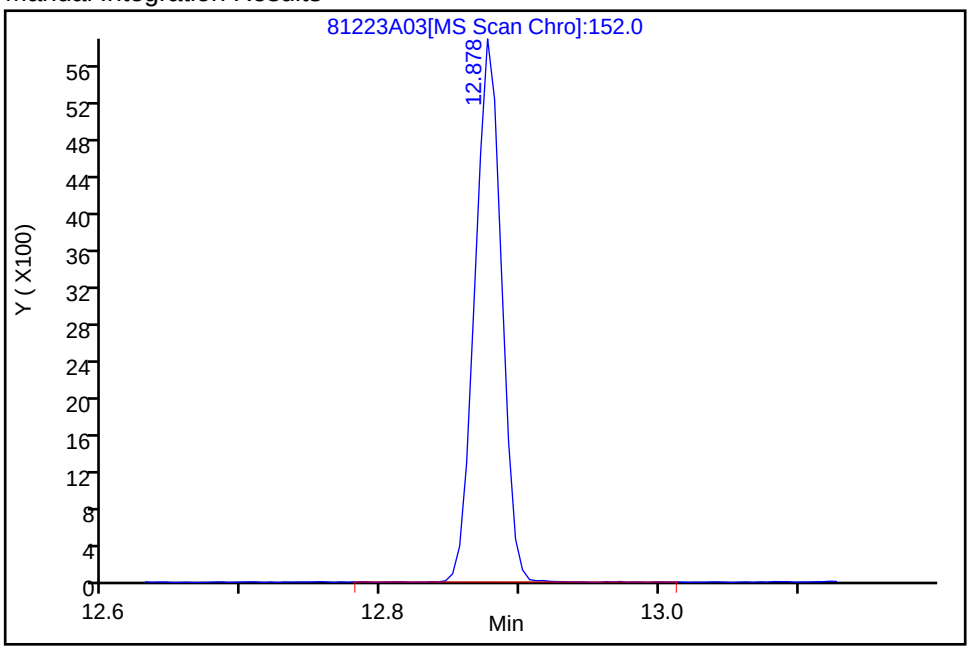
Processing Integration Results

Not Detected
12.878



Manual Integration Results

RT:	12.878
Area:	7674
Conc:	10.000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 13:49:30
Audit Action: Mint
Audit Reason: NOID

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R35

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QL16010-005

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222C13

% Solids: Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted:

GC Column: ID: (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) Extract Volume: (uL)

Soil Aliquot (VOA): (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
67-66-3	Chloroform	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
71-43-2	Benzene	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
78-87-5	1,2-Dichloropropane	0.050	U
75-27-4	Bromodichloromethane	0.050	U
10061-01-5	cis-1,3-Dichloropropene	0.050	U
79-00-5	1,1,2-Trichloroethane	0.050	U
591-78-6	2-Hexanone	0.50	U
106-93-4	1,2-Dibromoethane	0.050	U
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U
106-46-7	1,4-Dichlorobenzene	0.050	U
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U
120-82-1	1,2,4-Trichlorobenzene	0.050	U
87-61-6	1,2,3-Trichlorobenzene	0.050	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C13.D		
Lab Sample ID:	QL16010-005	Client Sample ID:	F6R35
Injection Date:	23-Dec-2015 09:32:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, QL16010-005		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	13
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 12:22:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 23 Chloroform-d	84.0	6.097	6.093	0.004	14758	0.46774	0.46770	Q
24 Chloroform	83.0		6.123		ND			
27 Carbon Tetrachloride	117.0		6.596		ND			
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	4717	0.47359	0.47350	Q
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	19682	0.50244	0.50240	Q
31 Benzene	78.0		6.865		ND			
32 1,2-Dichloroethane	62.0		6.882		ND			
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	19589	0.50000	0.50000	M
$ 35 1,2-Dichloropropane-d6	67.0	7.895	7.904	-0.009	6381	0.51791	0.51790	M
37 1,2-Dichloropropane	63.0		8.020		ND			
39 Bromodichloromethane	83.0		8.384		ND			
40 cis-1,3-Dichloropropene	75.0		8.996		ND			
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	4456	0.50581	0.50580	Q
46 1,1,2-Trichloroethane	97.0		9.906		ND			
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4310	4.4497	4.4497	Q
50 2-Hexanone	43.0		10.184		ND			
52 1,2-Dibromoethane	107.0		10.459		ND			
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	14538	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	2735	0.51258	0.51250	Q
64 1,1,2,2-Tetrachloroethane	83.0		12.069		ND			
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	7369	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0		13.173		ND			
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	6462	0.50972	0.50970	Q
80 1,2-Dibromo-3-chloropropane	75.0		13.722		ND			
82 1,2,4-Trichlorobenzene	180.0		14.302		ND			
84 1,2,3-Trichlorobenzene	180.0		14.674		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C13.D		
Lab Sample ID:	QL16010-005	Client Sample ID:	F6R35
Injection Date:	23-Dec-2015 09:32:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, QL16010-005		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	13
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 12:22:30

Tentative Identified Compound Results

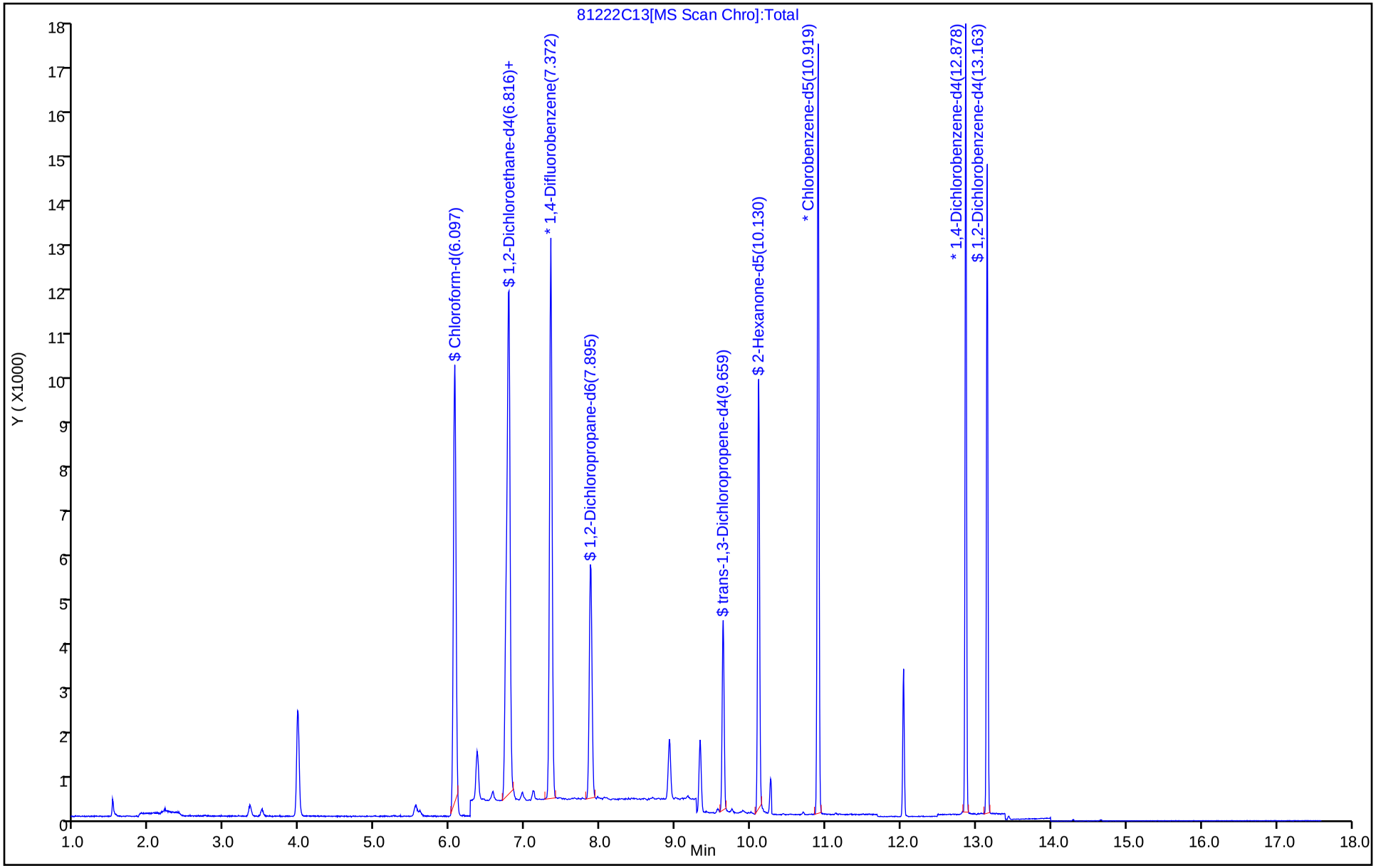
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 06-Jan-2016 11:38:21 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C13.D				
Injection Date:	23-Dec-2015 09:32:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	F6R35	Lab ID:	QL16010-005		
Sample Info:	8122215C.b, QL16010-005				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 06-Jan-2016 11:38:21 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

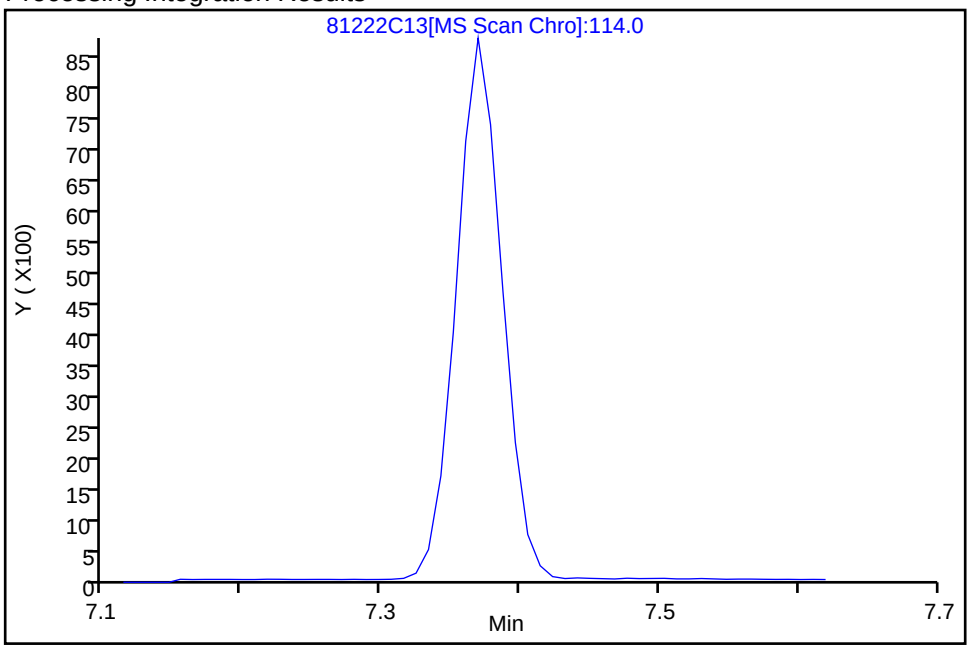
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C13.D		
Injection Date:	23-Dec-2015 09:32:30	Inst. ID:	msd8.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	8122215C.b, QL16010-005		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 33 1,4-Difluorobenzene, CAS: 540-36-3

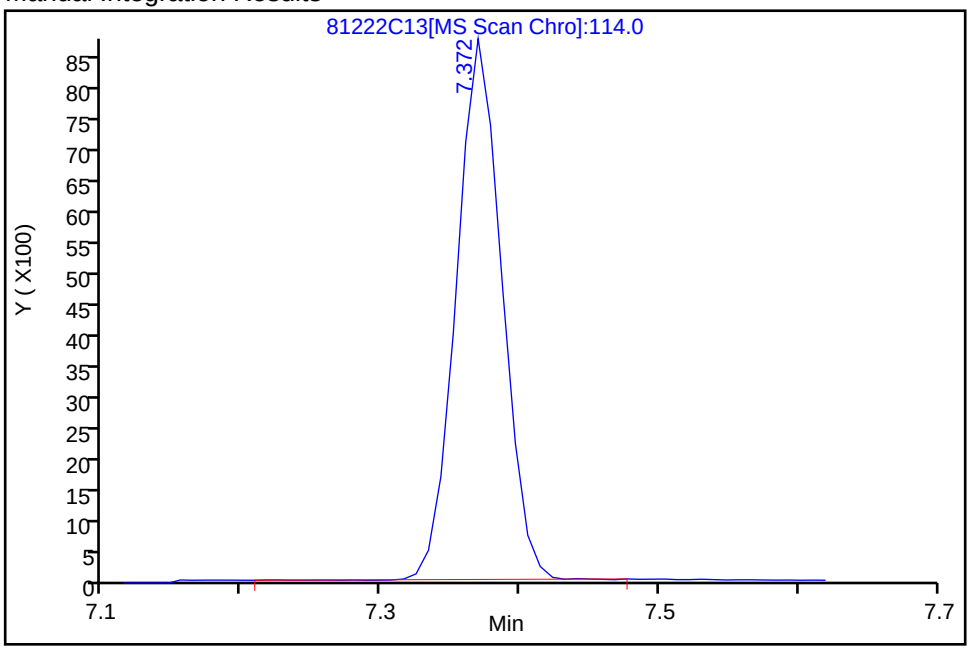
Processing Integration Results

Not Detected
7.372



Manual Integration Results

RT:	7.372
Area:	19589
Conc:	0.50000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:22:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:21 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

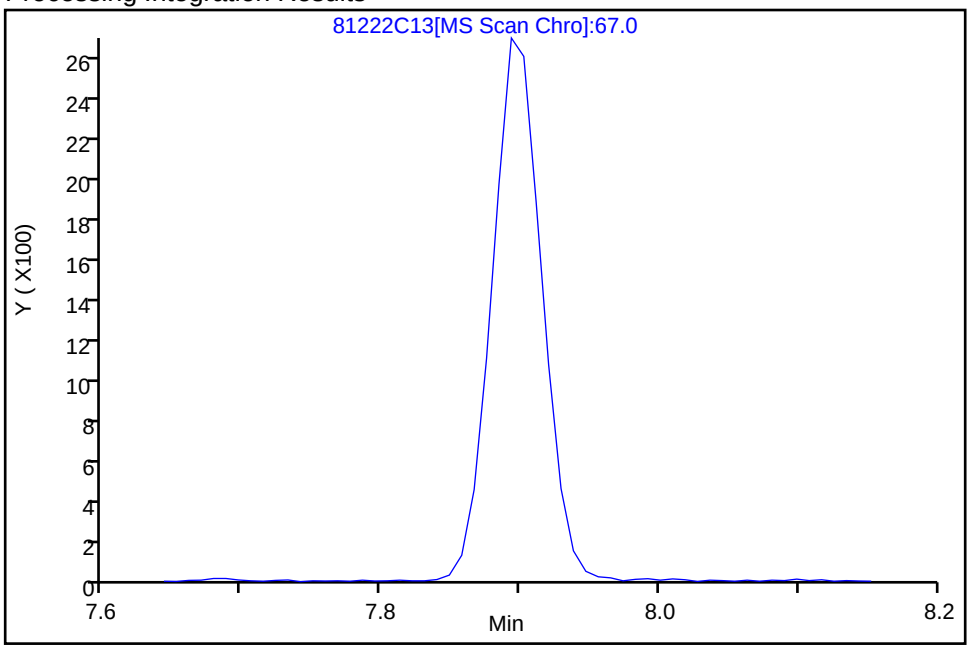
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C13.D		
Injection Date:	23-Dec-2015 09:32:30	Inst. ID:	msd8.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	8122215C.b, QL16010-005		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

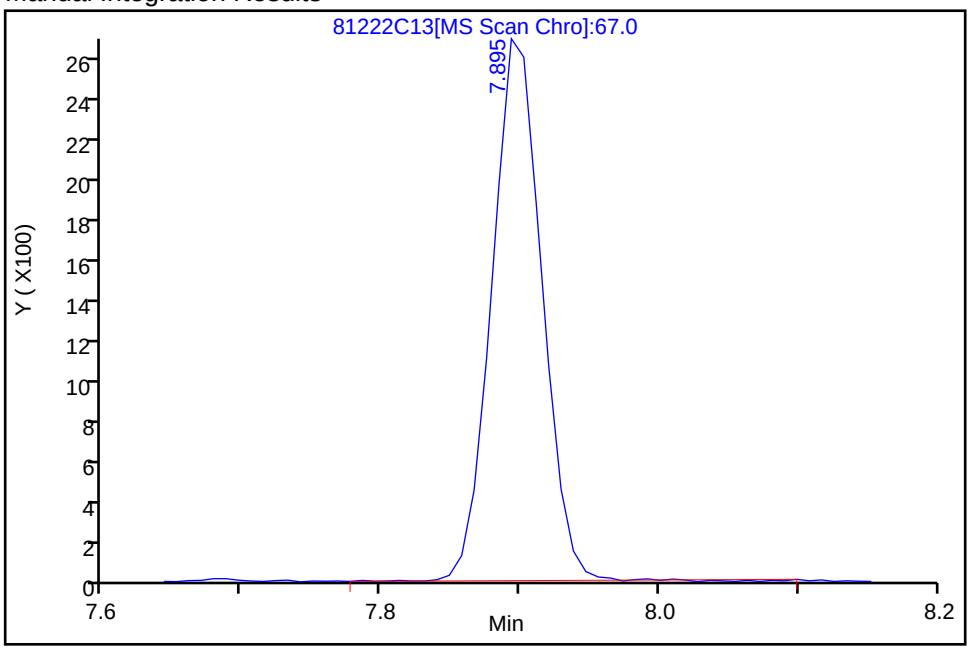
Not Detected
7.904

Processing Integration Results



Manual Integration Results

RT:	7.895
Area:	6381
Conc:	0.51790
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:22:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

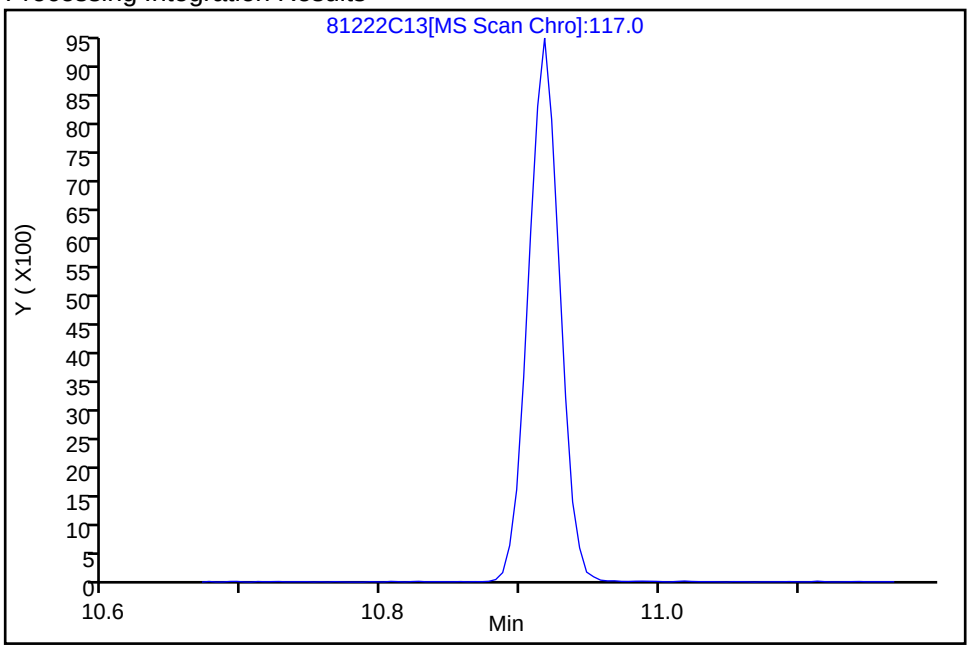
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C13.D		
Injection Date:	23-Dec-2015 09:32:30	Inst. ID:	msd8.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	8122215C.b, QL16010-005		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

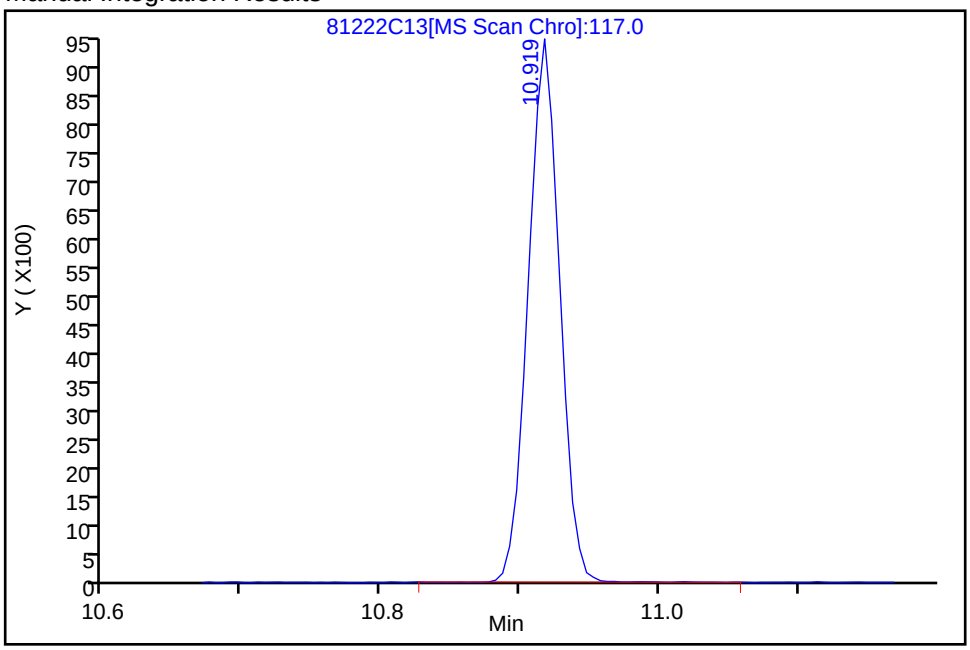
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	14538
Conc:	0.50000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:22:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

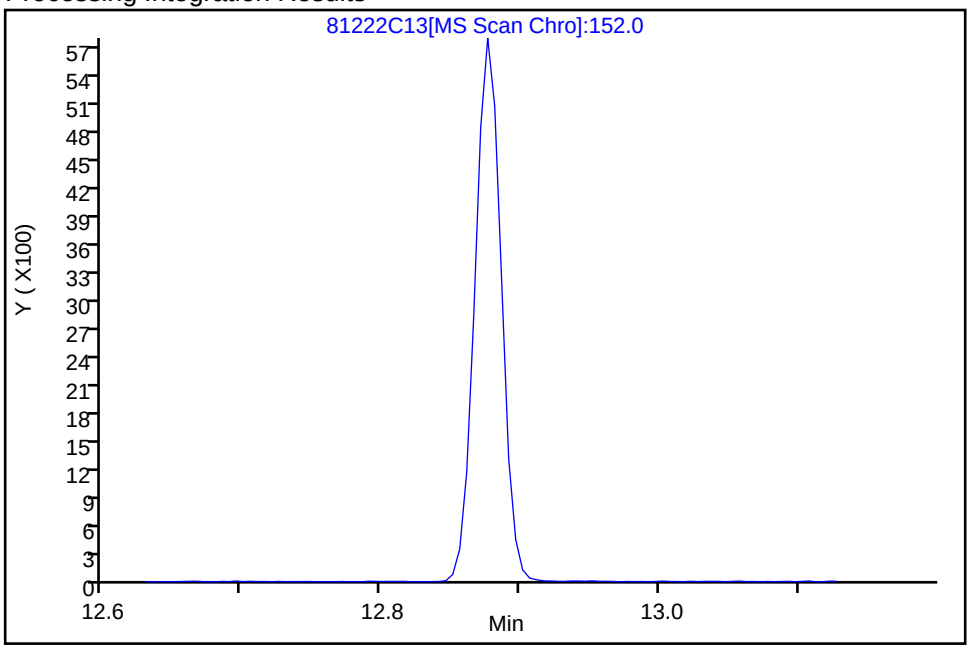
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C13.D		
Injection Date:	23-Dec-2015 09:32:30	Inst. ID:	msd8.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	8122215C.b, QL16010-005		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

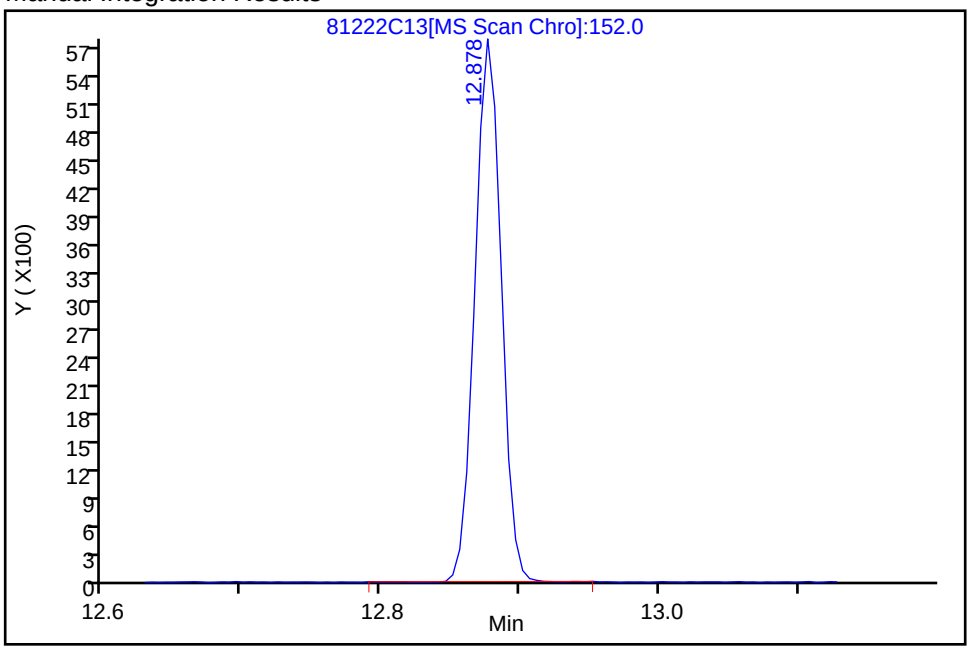
Processing Integration Results

Not Detected
12.878



Manual Integration Results

RT:	12.878
Area:	7369
Conc:	0.50000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:22:30
Audit Action: Mint
Audit Reason: NOID

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R36

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QL16010-006

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222C14

% Solids: Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted:

GC Column: ID: (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) Extract Volume: (uL)

Soil Aliquot (VOA): (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
67-66-3	Chloroform	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
71-43-2	Benzene	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
78-87-5	1,2-Dichloropropane	0.050	U
75-27-4	Bromodichloromethane	0.050	U
10061-01-5	cis-1,3-Dichloropropene	0.050	U
79-00-5	1,1,2-Trichloroethane	0.050	U
591-78-6	2-Hexanone	0.50	U
106-93-4	1,2-Dibromoethane	0.050	U
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U
106-46-7	1,4-Dichlorobenzene	0.050	U
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U
120-82-1	1,2,4-Trichlorobenzene	0.050	U
87-61-6	1,2,3-Trichlorobenzene	0.050	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C14.D		
Lab Sample ID:	QL16010-006	Client Sample ID:	F6R36
Injection Date:	23-Dec-2015 09:59:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, QL16010-006		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	14
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 12:23:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 23 Chloroform-d	84.0	6.097	6.093	0.004	15019	0.47324	0.47320	Q
24 Chloroform	83.0		6.123		ND			
27 Carbon Tetrachloride	117.0		6.596		ND			
$ 29 1,2-Dichloroethane-d4	65.0	6.784	6.776	0.008	5137	0.51275	0.51270	M
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	20004	0.48618	0.48610	Q
31 Benzene	78.0		6.865		ND			
32 1,2-Dichloroethane	62.0		6.882		ND			
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	19704	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.904	7.904	0.000	6579	0.50839	0.50830	M
37 1,2-Dichloropropane	63.0		8.020		ND			
39 Bromodichloromethane	83.0		8.384		ND			
40 cis-1,3-Dichloropropene	75.0		8.996		ND			
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	4565	0.49334	0.49330	Q
46 1,1,2-Trichloroethane	97.0		9.906		ND			
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4364	4.2895	4.2894	Q
50 2-Hexanone	43.0		10.184		ND			
52 1,2-Dibromoethane	107.0		10.459		ND			
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	15270	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	2742	0.48926	0.48920	Q
64 1,1,2,2-Tetrachloroethane	83.0		12.069		ND			
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	7654	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0		13.173		ND			
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	6593	0.50069	0.50060	Q
80 1,2-Dibromo-3-chloropropane	75.0		13.722		ND			
82 1,2,4-Trichlorobenzene	180.0		14.302		ND			
84 1,2,3-Trichlorobenzene	180.0		14.674		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C14.D		
Lab Sample ID:	QL16010-006	Client Sample ID:	F6R36
Injection Date:	23-Dec-2015 09:59:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, QL16010-006		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	14
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 12:23:30

Tentative Identified Compound Results

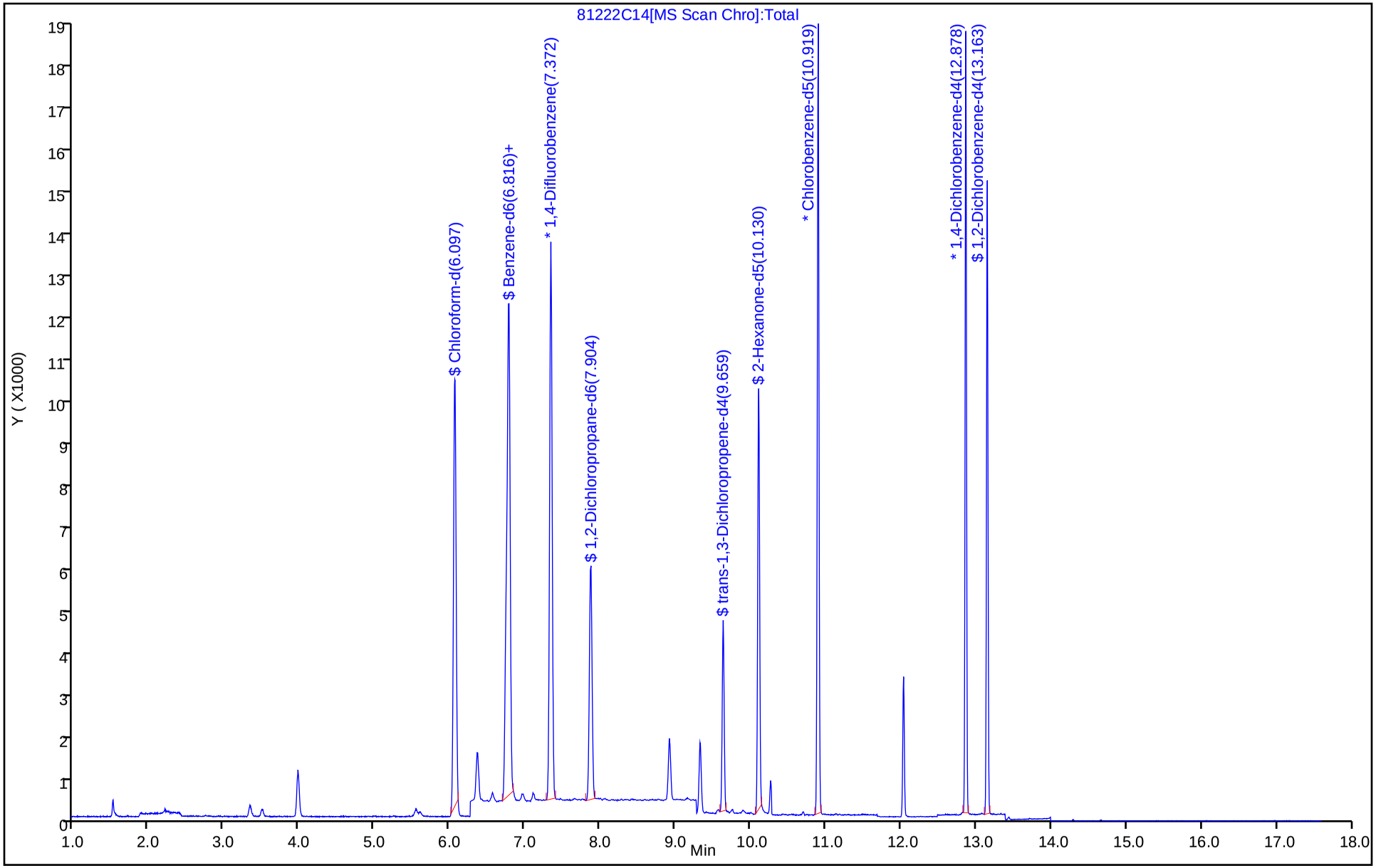
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 06-Jan-2016 11:38:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C14.D				
Injection Date:	23-Dec-2015 09:59:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	F6R36	Lab ID:	QL16010-006		
Sample Info:	8122215C.b, QL16010-006				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 06-Jan-2016 11:38:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

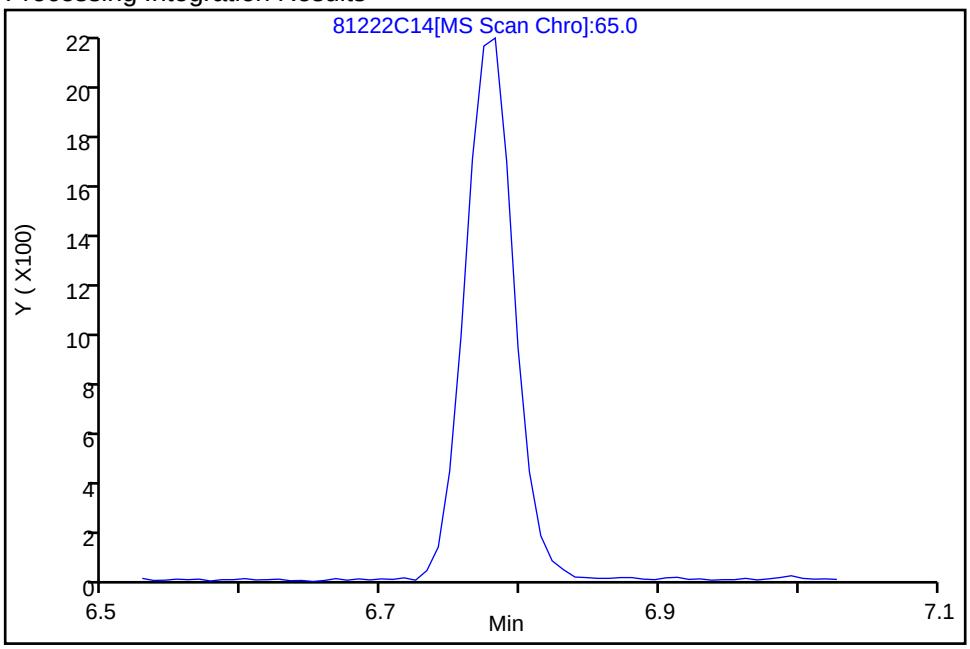
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C14.D		
Injection Date:	23-Dec-2015 09:59:30	Inst. ID:	msd8.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	8122215C.b, QL16010-006		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 29 1,2-Dichloroethane-d4, CAS: 17060-07-0

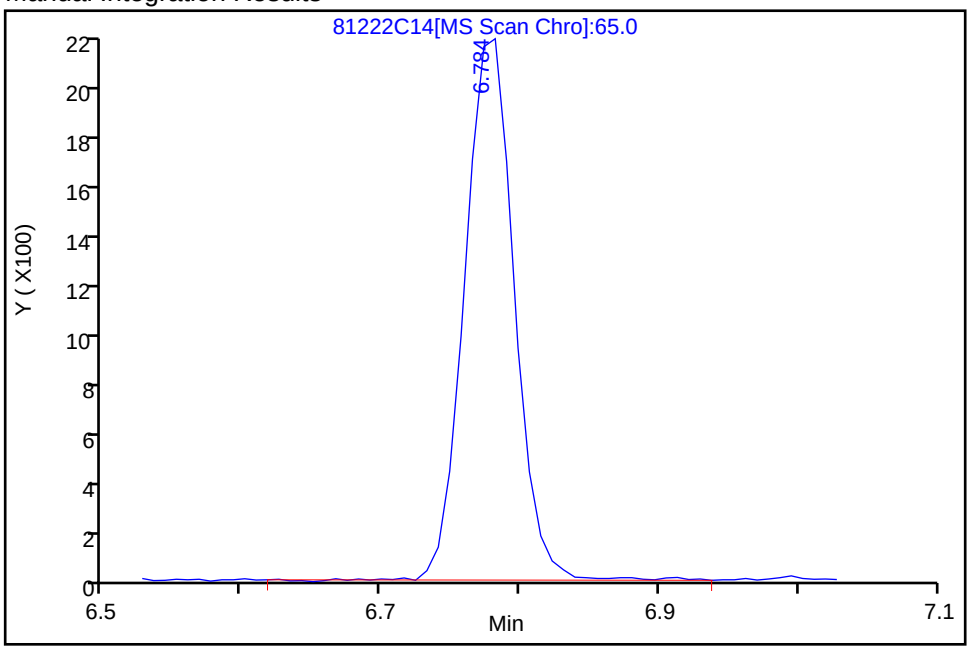
Processing Integration Results

Not Detected
6.776



Manual Integration Results

RT:	6.784
Area:	5137
Conc:	0.51270
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:23:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 06-Jan-2016 11:38:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

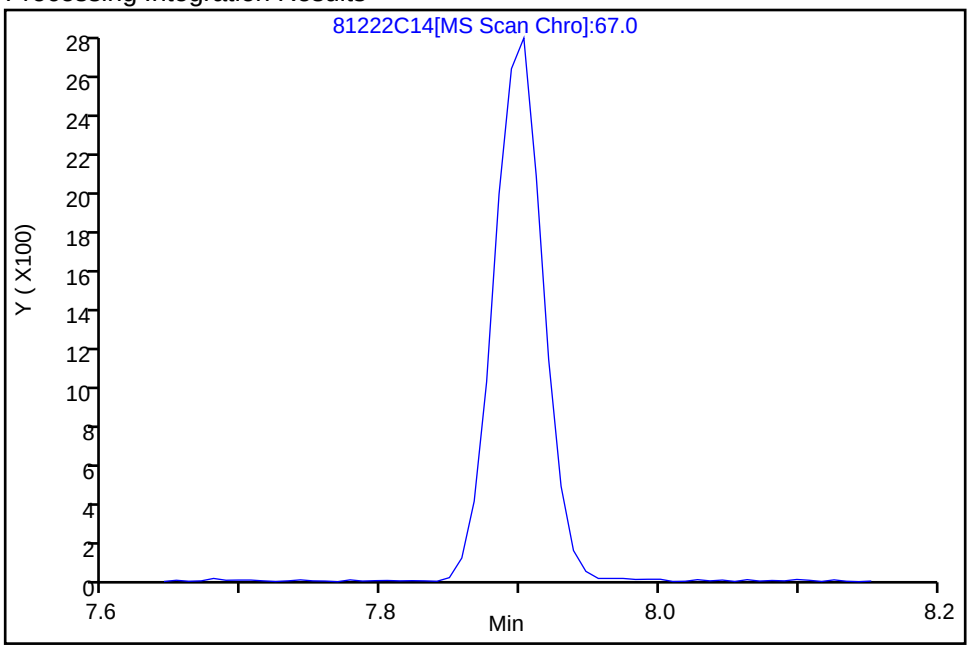
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C14.D		
Injection Date:	23-Dec-2015 09:59:30	Inst. ID:	msd8.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	8122215C.b, QL16010-006		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

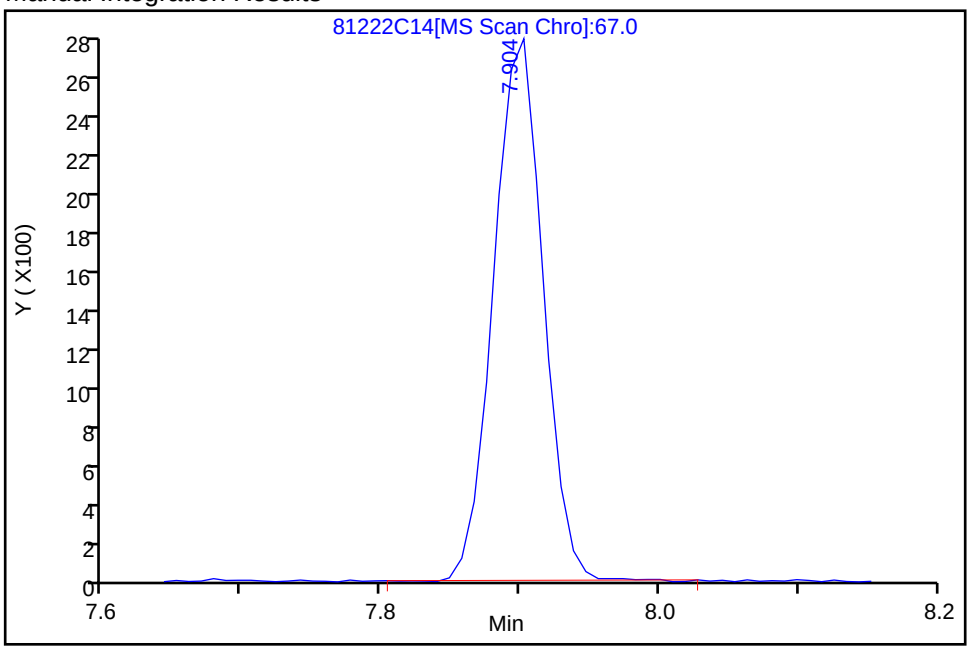
Processing Integration Results

Not Detected
7.904



Manual Integration Results

RT:	7.904
Area:	6579
Conc:	0.50830
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:23:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

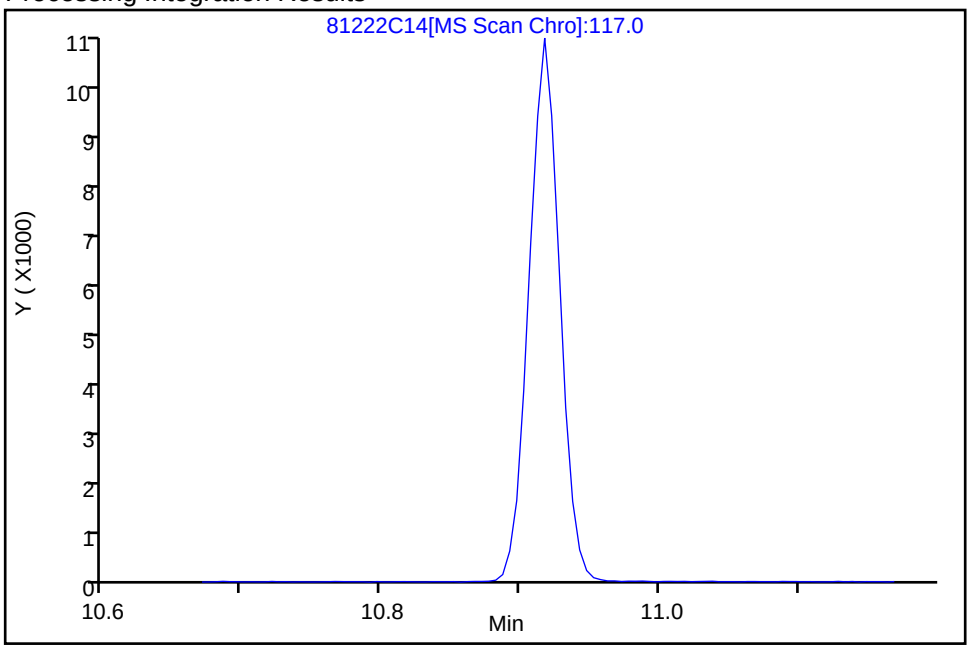
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C14.D		
Injection Date:	23-Dec-2015 09:59:30	Inst. ID:	msd8.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	8122215C.b, QL16010-006		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

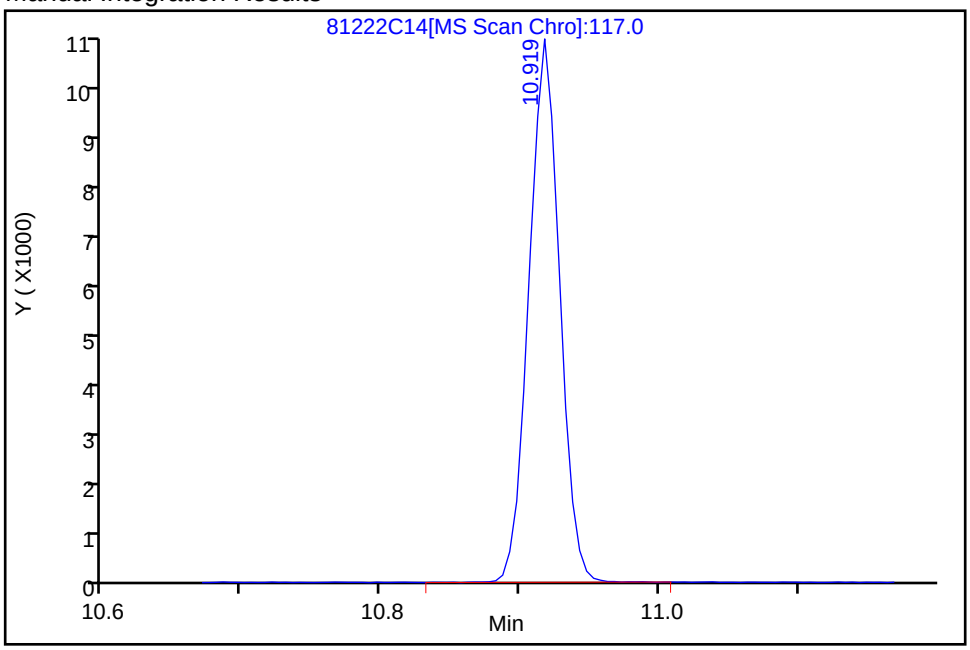
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	15270
Conc:	0.50000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:23:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

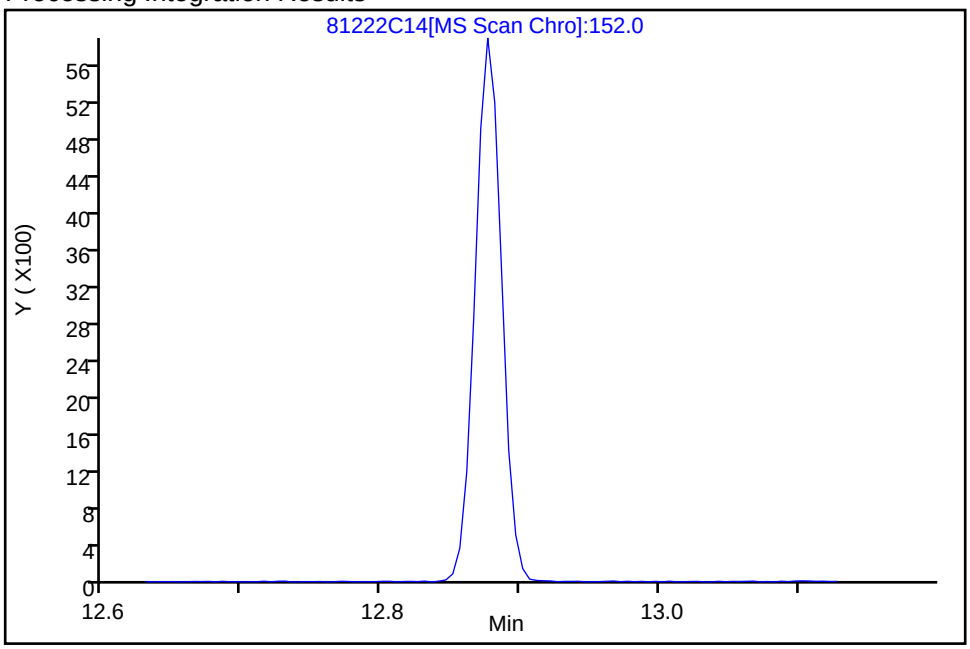
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C14.D		
Injection Date:	23-Dec-2015 09:59:30	Inst. ID:	msd8.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	8122215C.b, QL16010-006		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

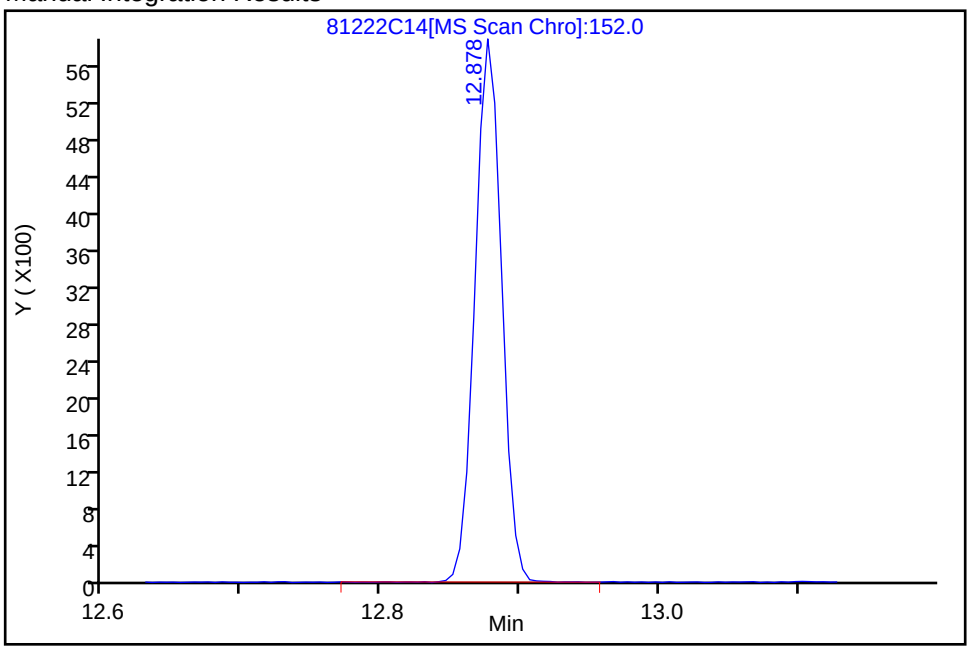
Processing Integration Results

Not Detected
12.878



Manual Integration Results

RT:	12.878
Area:	7654
Conc:	0.50000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:23:30
Audit Action: Mint
Audit Reason: NOID

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R39

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QL16010-007

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222C15

% Solids: Date Received: 12/16/2015

GC Column: DB-624 ID: 0.25 (mm) Date Extracted:

GC Column: ID: (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) Extract Volume: (uL)

Soil Aliquot (VOA): (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
67-66-3	Chloroform	0.050	U
56-23-5	Carbon tetrachloride	0.050	U
71-43-2	Benzene	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
78-87-5	1,2-Dichloropropane	0.050	U
75-27-4	Bromodichloromethane	0.050	U
10061-01-5	cis-1,3-Dichloropropene	0.050	U
79-00-5	1,1,2-Trichloroethane	0.050	U
591-78-6	2-Hexanone	0.50	U
106-93-4	1,2-Dibromoethane	0.050	U
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U
106-46-7	1,4-Dichlorobenzene	0.050	U
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U
120-82-1	1,2,4-Trichlorobenzene	0.050	U
87-61-6	1,2,3-Trichlorobenzene	0.050	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C15.D		
Lab Sample ID:	QL16010-007	Client Sample ID:	F6R39
Injection Date:	23-Dec-2015 10:25:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, QL16010-007		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	15
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 12:24:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 23 Chloroform-d	84.0	6.096	6.093	0.003	16874	0.49536	0.49530	Q
24 Chloroform	83.0		6.123		ND			
27 Carbon Tetrachloride	117.0		6.596		ND			
$ 29 1,2-Dichloroethane-d4	65.0	6.775	6.776	-0.001	5279	0.49092	0.49090	M
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	22520	0.51479	0.51470	Q
31 Benzene	78.0		6.865		ND			
32 1,2-Dichloroethane	62.0		6.882		ND			
* 33 1,4-Difluorobenzene	114.0	7.371	7.372	-0.001	21149	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.904	7.904	0.000	7126	0.51792	0.51790	M
37 1,2-Dichloropropane	63.0		8.020		ND			
39 Bromodichloromethane	83.0		8.384		ND			
40 cis-1,3-Dichloropropene	75.0		8.996		ND			
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.658	9.659	-0.001	4686	0.47632	0.47630	Q
46 1,1,2-Trichloroethane	97.0		9.906		ND			
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4426	4.0918	4.0918	Q
50 2-Hexanone	43.0		10.184		ND			
52 1,2-Dibromoethane	107.0		10.459		ND			
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	16235	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	2842	0.47696	0.47690	Q
64 1,1,2,2-Tetrachloroethane	83.0		12.069		ND			
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	8094	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0		13.173		ND			
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	6921	0.49703	0.49700	Q
80 1,2-Dibromo-3-chloropropane	75.0		13.722		ND			
82 1,2,4-Trichlorobenzene	180.0		14.302		ND			
84 1,2,3-Trichlorobenzene	180.0		14.674		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C15.D		
Lab Sample ID:	QL16010-007	Client Sample ID:	F6R39
Injection Date:	23-Dec-2015 10:25:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, QL16010-007		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	15
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 12:24:30

Tentative Identified Compound Results

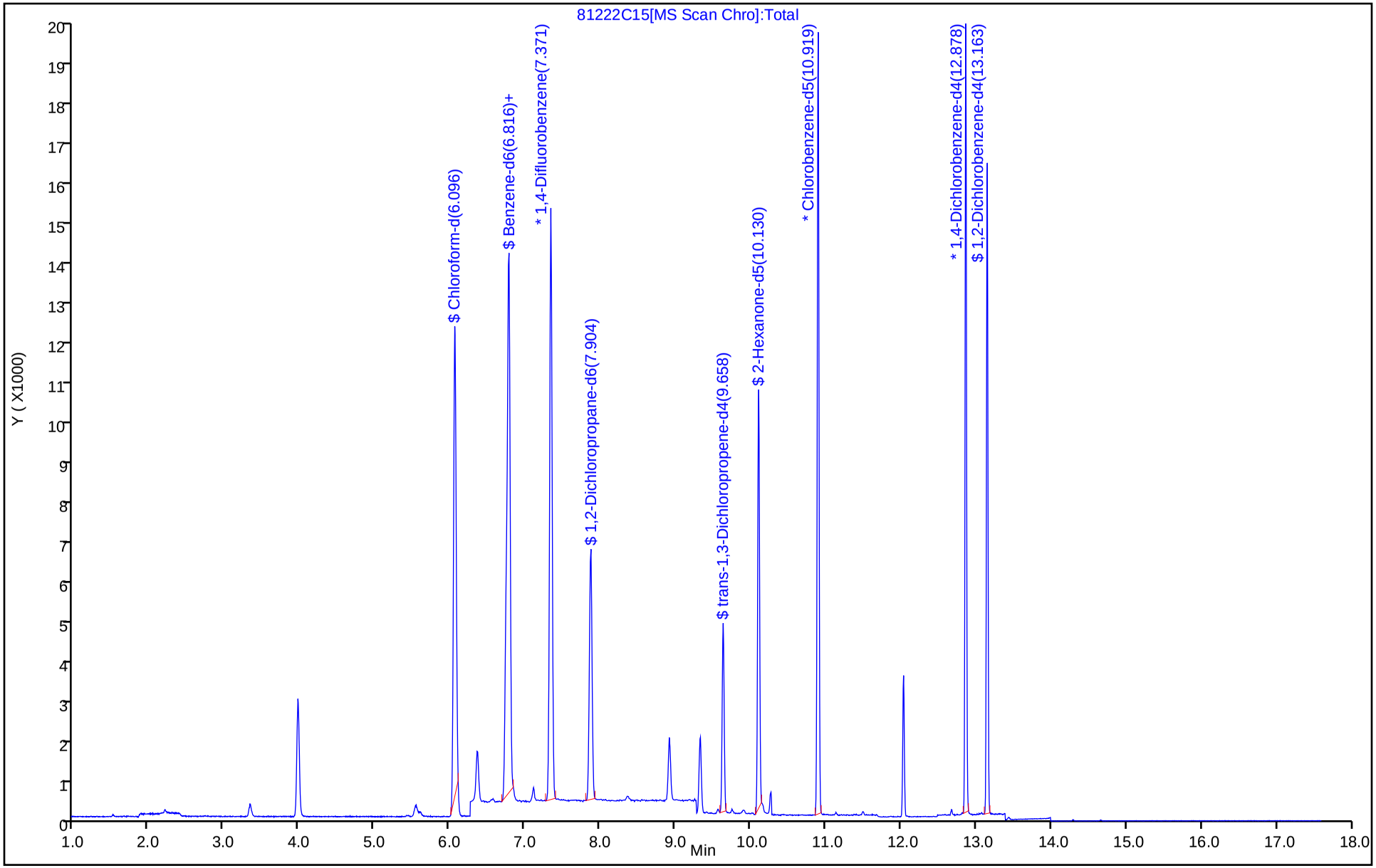
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 06-Jan-2016 11:38:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C15.D				
Injection Date:	23-Dec-2015 10:25:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	F6R39	Lab ID:	QL16010-007		
Sample Info:	8122215C.b, QL16010-007				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 06-Jan-2016 11:38:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

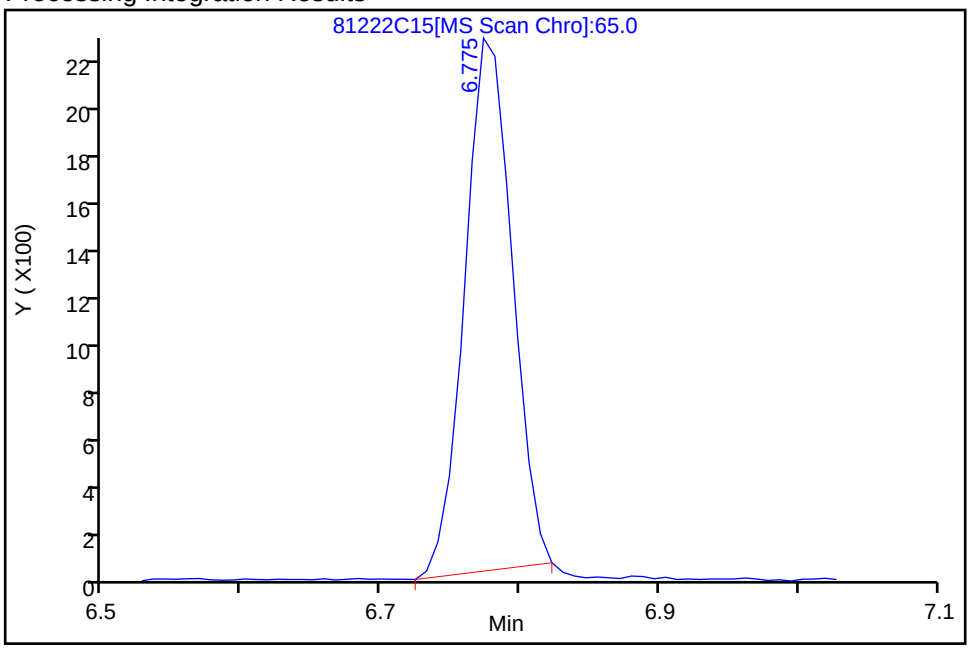
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C15.D		
Injection Date:	23-Dec-2015 10:25:30	Inst. ID:	msd8.i
Client ID:	F6R39	Lab ID:	QL16010-007
Sample Info:	8122215C.b, QL16010-007		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 29 1,2-Dichloroethane-d4, CAS: 17060-07-0

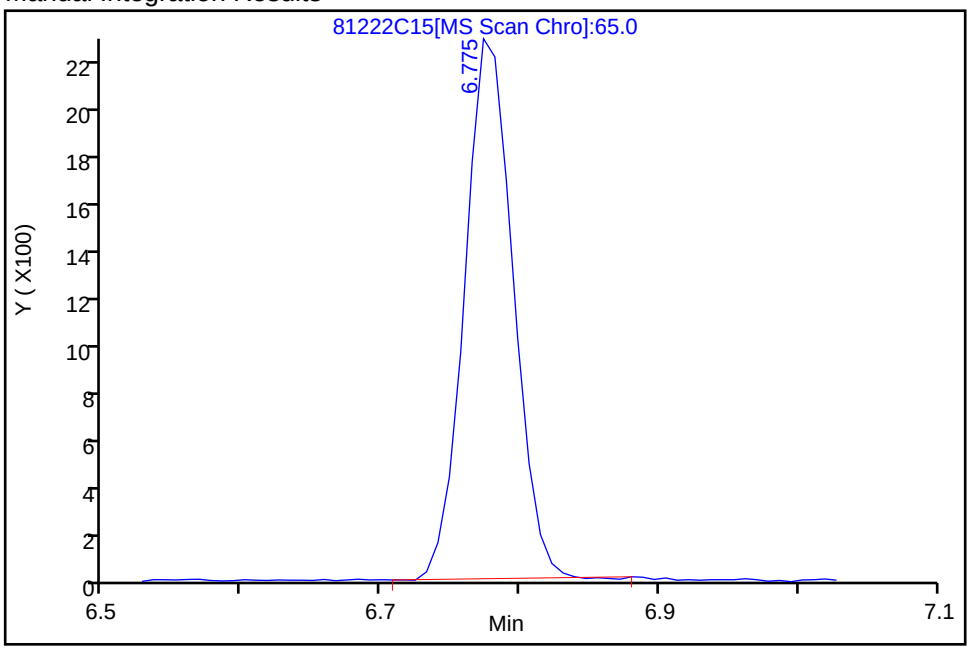
Processing Integration Results

RT: 6.775
Area: 4995
Conc: 0.46450
Conc Units: ug/L
Conc:



Manual Integration Results

RT: 6.775
Area: 5279
Conc: 0.49090
Conc Units: ug/L



Data Editor: pap, 23-Dec-2015 12:23:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 06-Jan-2016 11:38:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

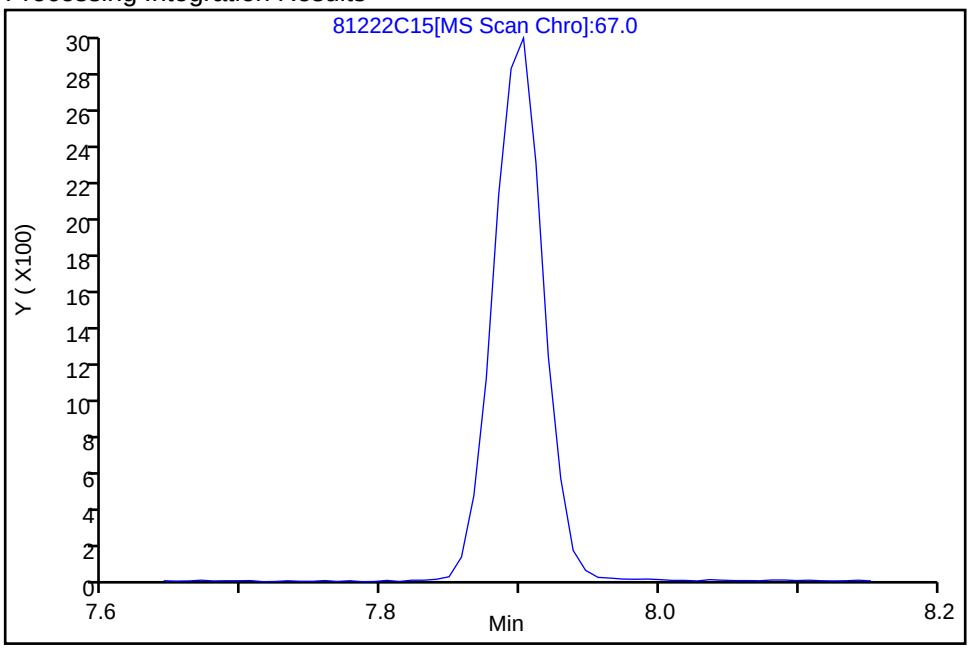
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C15.D		
Injection Date:	23-Dec-2015 10:25:30	Inst. ID:	msd8.i
Client ID:	F6R39	Lab ID:	QL16010-007
Sample Info:	8122215C.b, QL16010-007		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

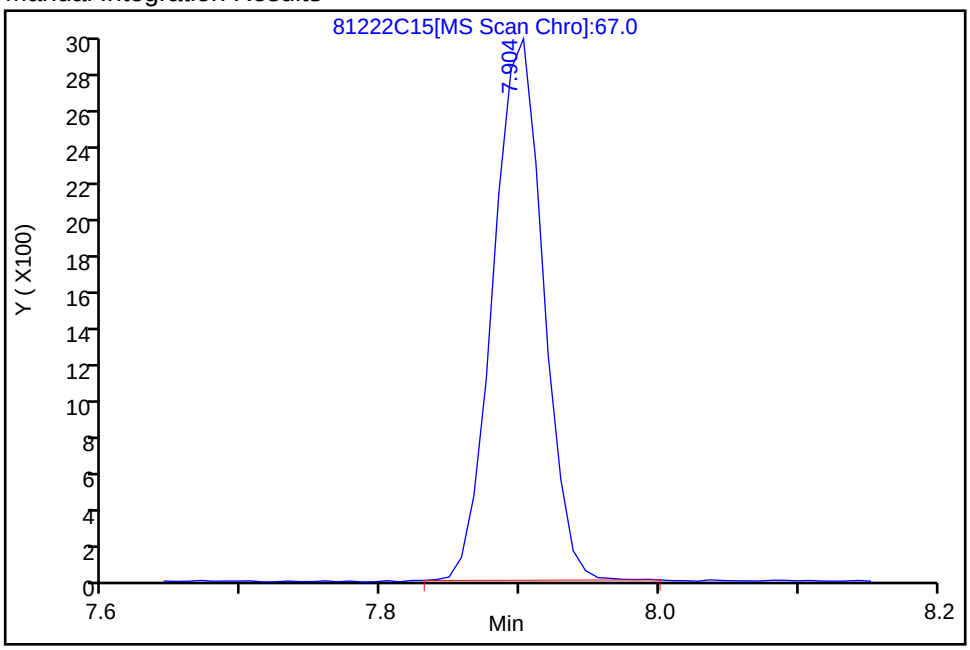
Processing Integration Results

Not Detected
7.904



Manual Integration Results

RT:	7.904
Area:	7126
Conc:	0.51790
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:24:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:22 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

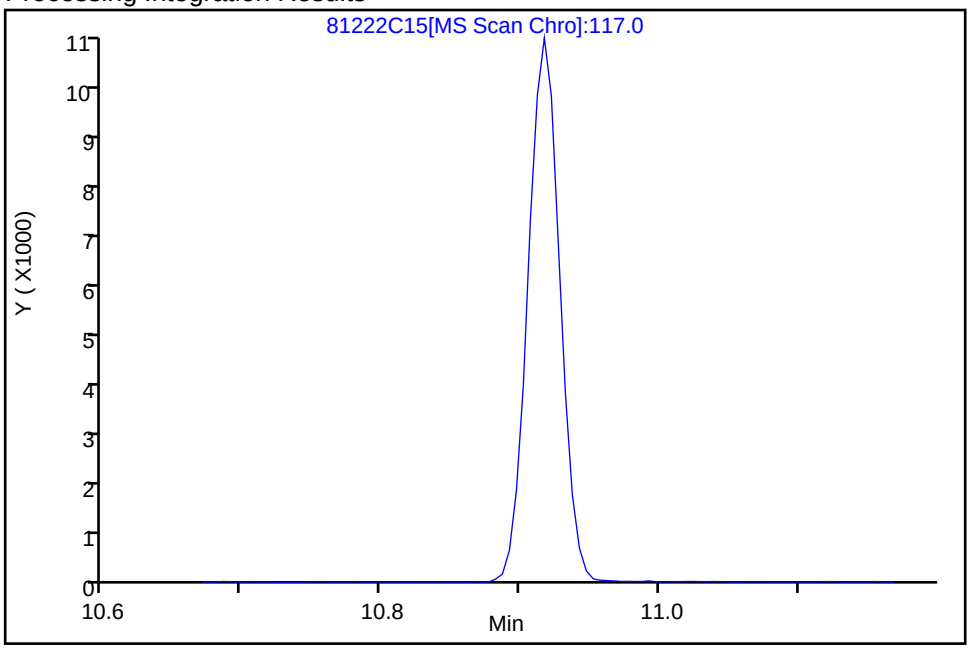
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C15.D		
Injection Date:	23-Dec-2015 10:25:30	Inst. ID:	msd8.i
Client ID:	F6R39	Lab ID:	QL16010-007
Sample Info:	8122215C.b, QL16010-007		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

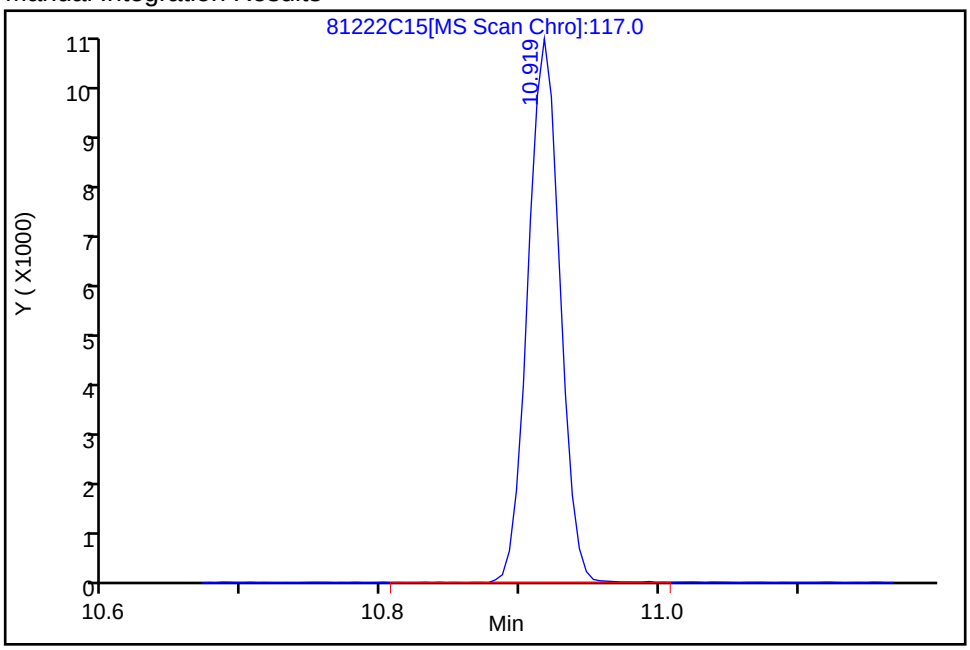
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	16235
Conc:	0.50000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:24:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:23 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

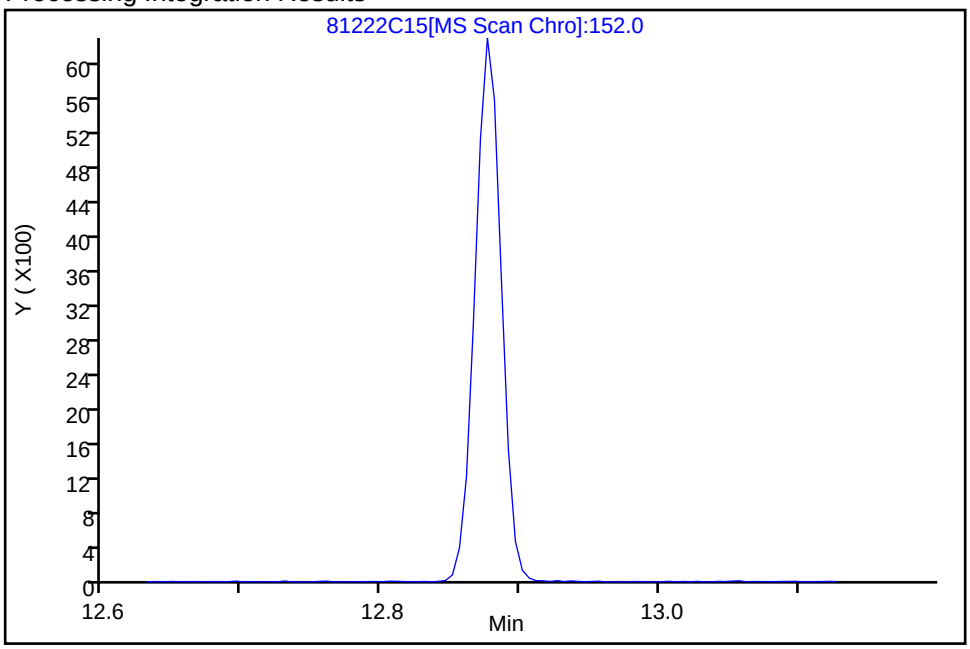
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C15.D		
Injection Date:	23-Dec-2015 10:25:30	Inst. ID:	msd8.i
Client ID:	F6R39	Lab ID:	QL16010-007
Sample Info:	8122215C.b, QL16010-007		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

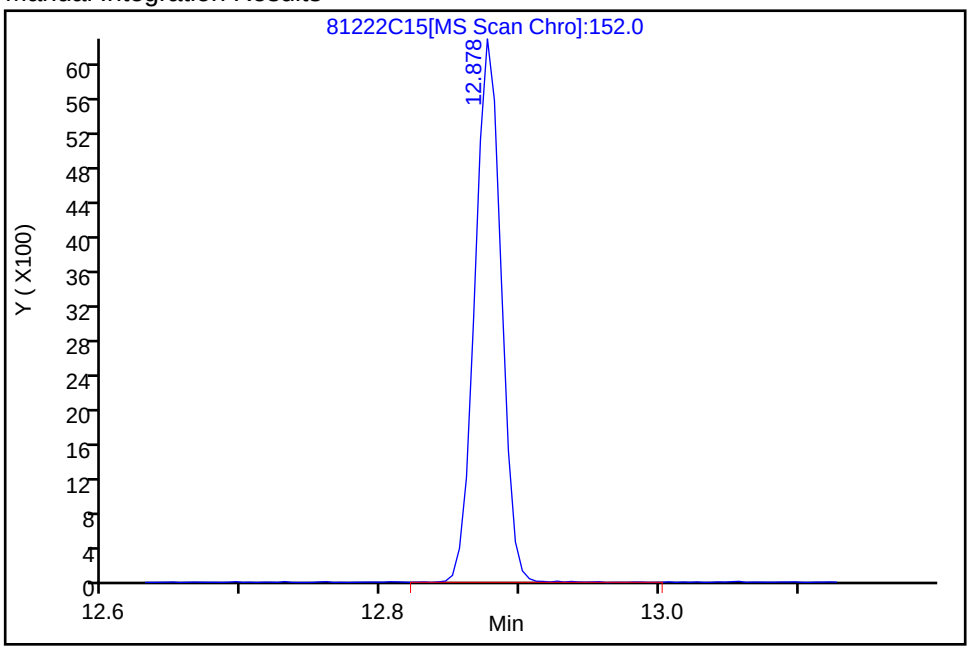
Not Detected
12.878

Processing Integration Results



Manual Integration Results

RT:	12.878
Area:	8094
Conc:	0.50000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:24:30
Audit Action: Mint
Audit Reason: NOID

TRACEVOLATILE-sim STANDARDS DATA

-Initial Calibration Data Form 6A-OR

-Continuing Calibration Verification Data Form 7A-OR

Initial Calibration

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: Low

Instrument ID: Agilent MSD8 Calibration Date(s): 12/23/2015 12/23/2015

GC Column: DB-624 ID: 0.25 (mm) Calibration Time(s): 0037 0225

Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 1.0 (mL)

LAB FILE ID: 81222C08 RRF 0.0 = 81222C08 RRF 0.1 = 81222C07

RRF 0.5 = 81222C06 RRF 1.0 = 81222C05 RRF 2.0 = 81222C04

COMPOUND	RRF 0.0	RRF 0.1	RRF 0.5	RRF 1.0	RRF 2.0	$\overline{RRF}$	%RSD
Chloroform	5.314	3.138	1.258	1.000	0.890	2.320	82.2
Carbon tetrachloride	0.706	0.734	0.714	0.682	0.696	0.706	2.8
Benzene	1.672	1.612	1.550	1.526	1.553	1.582	3.7
1,2-Dichloroethane	0.382	0.389	0.384	0.371	0.361	0.378	2.9
1,2-Dichloropropane	0.510	0.501	0.471	0.457	0.452	0.478	5.4
Bromodichloromethane	0.491	0.522	0.506	0.492	0.476	0.497	3.5
cis-1,3-Dichloropropene	0.485	0.419	0.438	0.428	0.428	0.440	6.0
1,1,2-Trichloroethane	0.217	0.227	0.214	0.204	0.195	0.212	5.9
2-Hexanone	0.017	0.019	0.021	0.021	0.017	0.019	9.2
1,2-Dibromoethane	0.198	0.205	0.209	0.208	0.194	0.203	3.3
1,1,2,2-Tetrachloroethane	0.174	0.207	0.198	0.189	0.176	0.189	7.4
1,4-Dichlorobenzene	1.419	1.651	1.701	1.445	1.432	1.530	8.8
1,2-Dibromo-3-chloropropane	0.070	0.072	0.049	0.044	0.042	0.055	26.5
1,2,4-Trichlorobenzene	1.090	1.185	1.011	0.967	0.997	1.050	8.4
1,2,3-Trichlorobenzene	0.806	1.185	0.751	0.724	0.727	0.838	23.4
Chloroform-d	0.815	0.751	0.819	0.828	0.814	0.805	3.9
1,2-Dichloroethane-d4	0.253	0.250	0.264	0.260	0.244	0.254	3.2
Benzene-d6	1.354	1.321	1.321	1.368	1.372	1.347	1.8
1,2-Dichloropropane-d6	0.422	0.395	0.437	0.441	0.423	0.424	4.2
trans-1,3-Dichloropropene-d4	0.276	0.280	0.315	0.327	0.317	0.303	7.8
2-Hexanone-d5	0.032	0.032	0.034	0.036	0.033	0.033	5.6
1,1,2,2-Tetrachloroethane-d2	0.188	0.174	0.189	0.192	0.175	0.184	4.5
1,2-Dichlorobenzene-d4	0.860	0.836	0.820	0.879	0.906	0.860	4.0

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C04.D		
Lab Sample ID:	VSTD2.0SK	Client Sample ID:	VSTD2.0SK
Injection Date:	23-Dec-2015 00:37:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, VSTD2.0SK		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Ical, Level: 5	ALS Bottle:	4
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 07:36:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 23 Chloroform-d	84.0	6.096	6.096	0.000	68924	2.0000	2.0212	
24 Chloroform	83.0	6.119	6.119	0.000	75330	2.0000	0.76683	
27 Carbon Tetrachloride	117.0	6.596	6.596	0.000	45703	2.0000	1.9708	
$ 29 1,2-Dichloroethane-d4	65.0	6.775	6.775	0.000	20624	2.0000	1.9158	
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	90102	2.0000	2.0372	
31 Benzene	78.0	6.865	6.865	0.000	101964	2.0000	1.9628	
32 1,2-Dichloroethane	62.0	6.881	6.881	0.000	30612	2.0000	1.9144	
* 33 1,4-Difluorobenzene	114.0	7.371	7.371	0.000	21172	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.895	7.895	0.000	27792	2.0000	1.9979	M
37 1,2-Dichloropropane	63.0	8.019	8.019	0.000	29683	2.0000	1.8906	
39 Bromodichloromethane	83.0	8.383	8.383	0.000	31251	2.0000	1.9144	
40 cis-1,3-Dichloropropene	75.0	8.996	8.996	0.000	28109	2.0000	1.9475	
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.658	9.658	0.000	20836	2.0000	2.0948	
46 1,1,2-Trichloroethane	97.0	9.906	9.906	0.000	12776	2.0000	1.8401	
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	21463	20.000	19.626	
50 2-Hexanone	43.0	10.179	10.179	0.000	11350	20.000	18.205	
52 1,2-Dibromoethane	107.0	10.454	10.454	0.000	12722	2.0000	1.9113	
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	16414	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	11514	2.0000	1.9113	
64 1,1,2,2-Tetrachloroethane	83.0	12.068	12.068	0.000	11550	2.0000	1.8657	
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	8421	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0	13.173	13.173	0.000	48245	2.0000	1.8727	
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	30527	2.0000	2.0935	M
80 1,2-Dibromo-3-chloropropane	75.0	13.722	13.722	0.000	1414	2.0000	1.5184	
82 1,2,4-Trichlorobenzene	180.0	14.302	14.302	0.000	33591	2.0000	1.9176	
84 1,2,3-Trichlorobenzene	180.0	14.668	14.668	0.000	24498	2.0000	1.6339	

QC Flag Legend

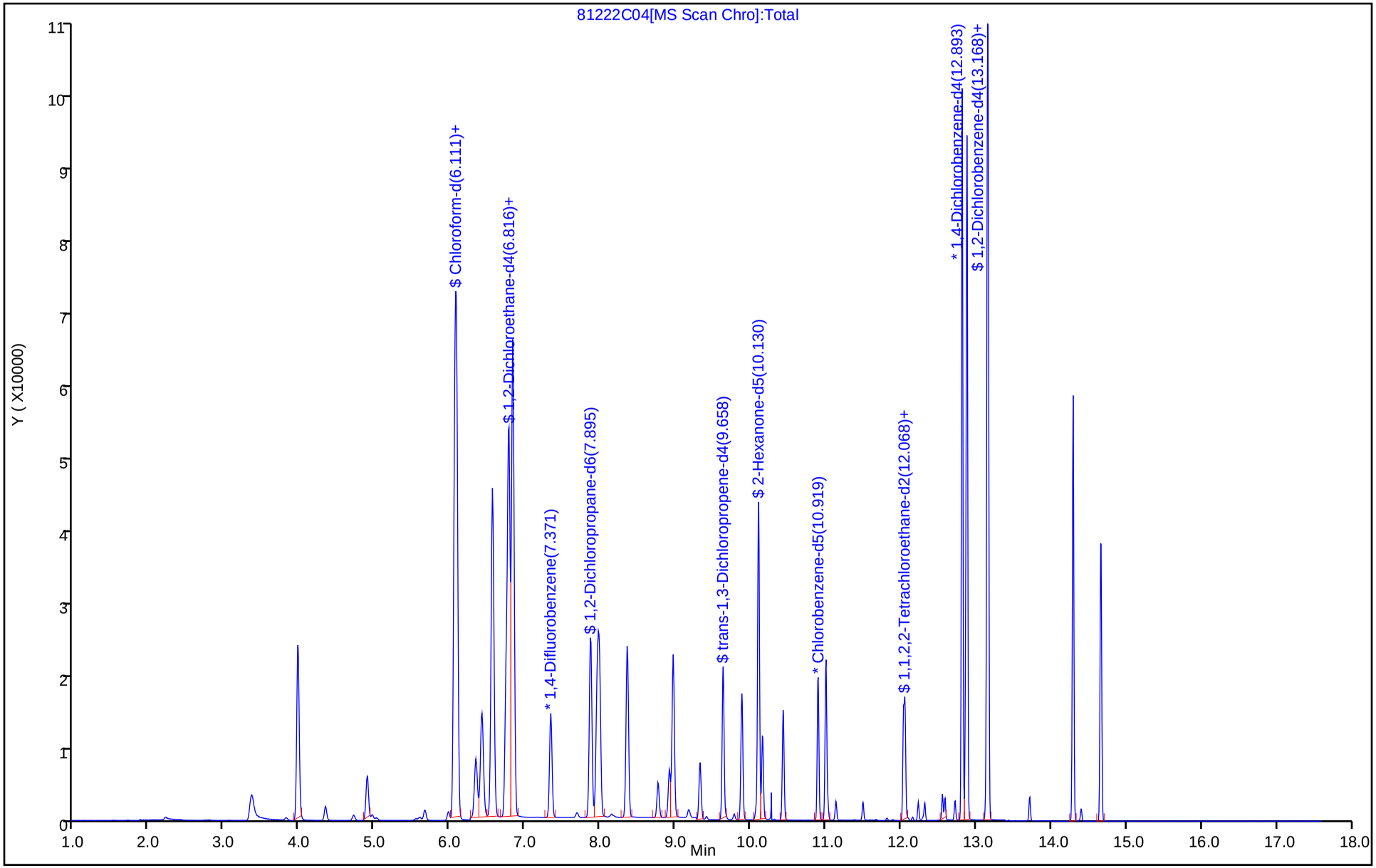
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 23-Dec-2015 12:32:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C04.D				
Injection Date:	23-Dec-2015 00:37:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	VSTD2.0SK	Lab ID:	VSTD2.0SK		
Sample Info:	8122215C.b, VSTD2.0SK				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 23-Dec-2015 12:32:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

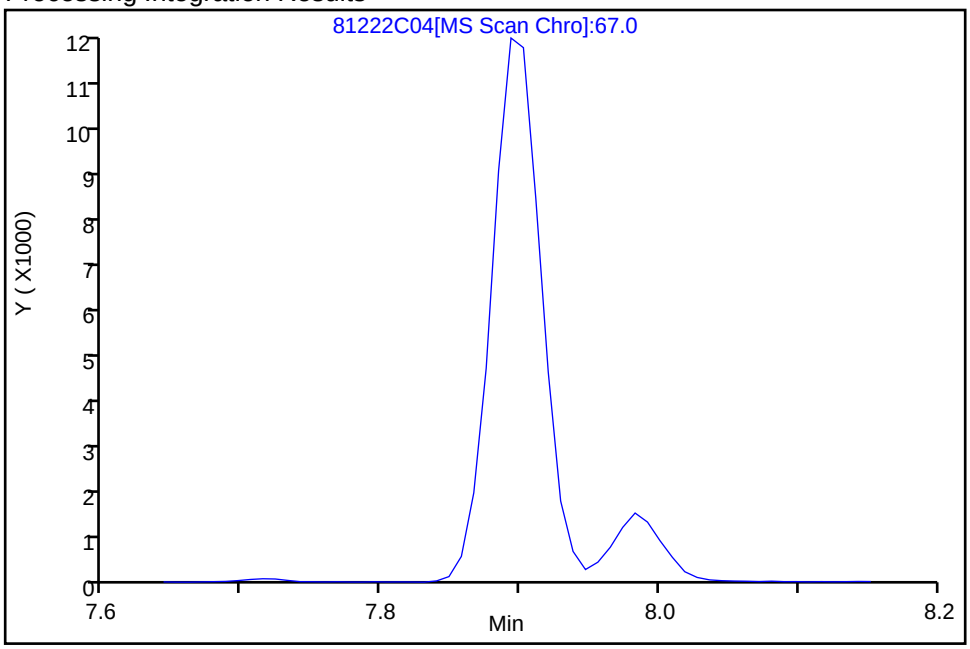
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C04.D		
Injection Date:	23-Dec-2015 00:37:30	Inst. ID:	msd8.i
Client ID:	VSTD2.0SK	Lab ID:	VSTD2.0SK
Sample Info:	8122215C.b, VSTD2.0SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

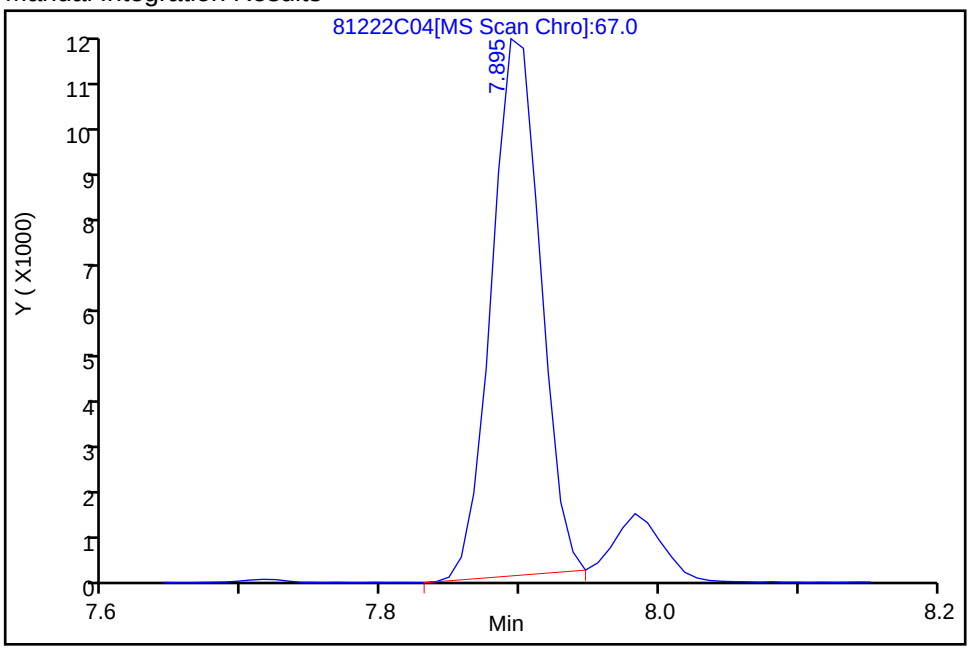
Not Detected
7.895

Processing Integration Results



Manual Integration Results

RT:	7.895
Area:	27792
Amount:	1.9979
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:26:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

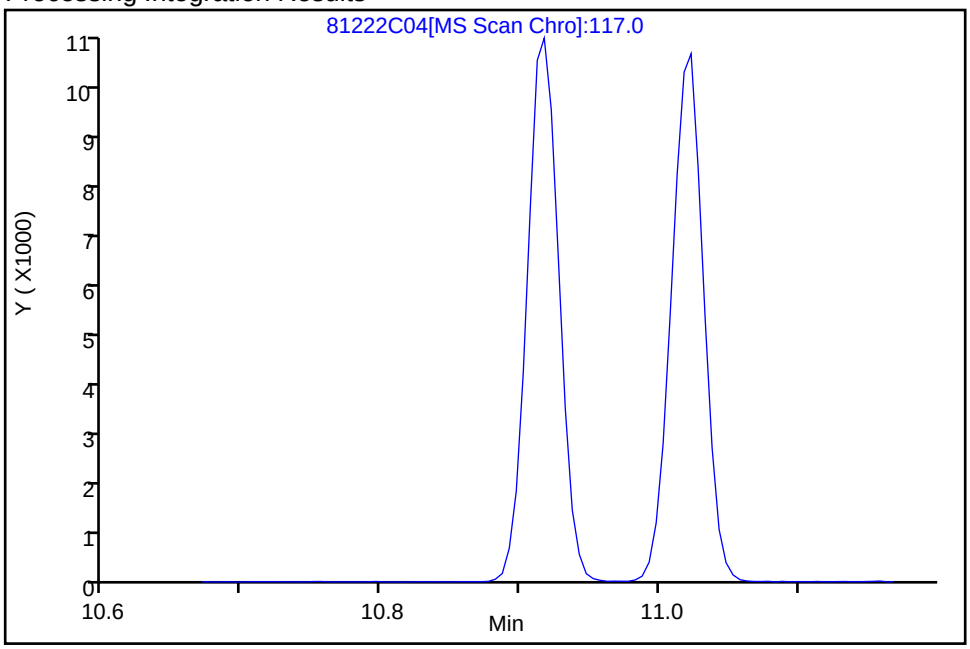
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C04.D		
Injection Date:	23-Dec-2015 00:37:30	Inst. ID:	msd8.i
Client ID:	VSTD2.0SK	Lab ID:	VSTD2.0SK
Sample Info:	8122215C.b, VSTD2.0SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

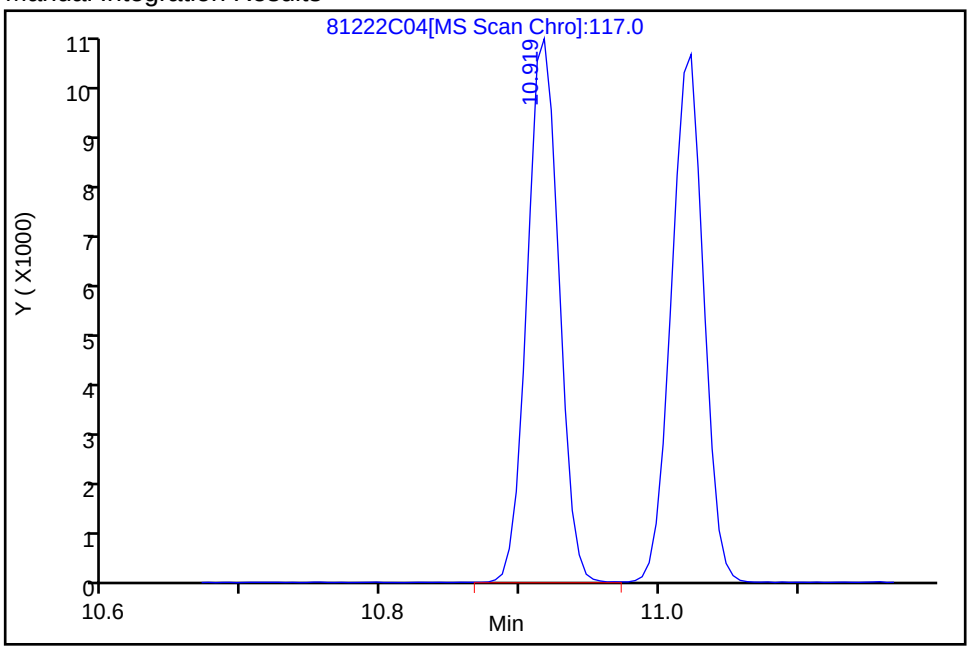
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	16414
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:27:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

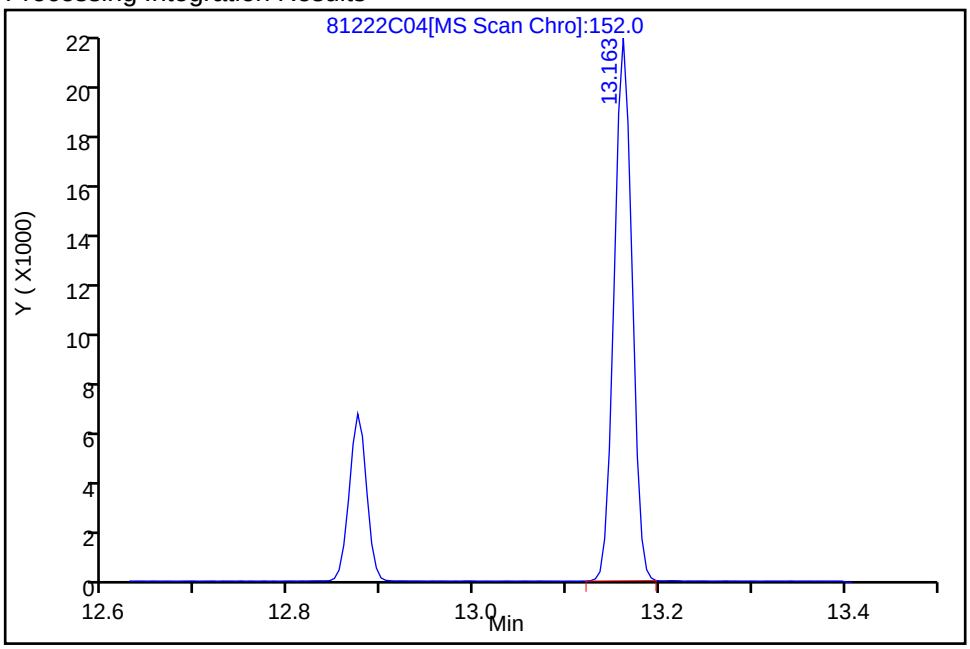
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C04.D		
Injection Date:	23-Dec-2015 00:37:30	Inst. ID:	msd8.i
Client ID:	VSTD2.0SK	Lab ID:	VSTD2.0SK
Sample Info:	8122215C.b, VSTD2.0SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

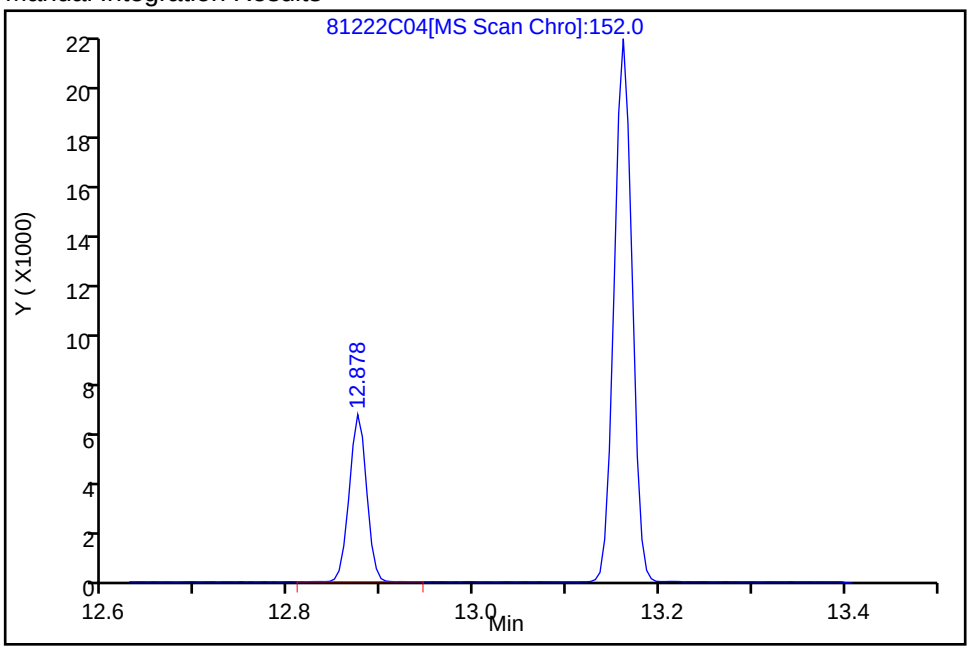
Processing Integration Results

RT: 13.163
Area: 29850
Amount: 0.50000
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 12.878
Area: 8421
Amount: 0.50000
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:36:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

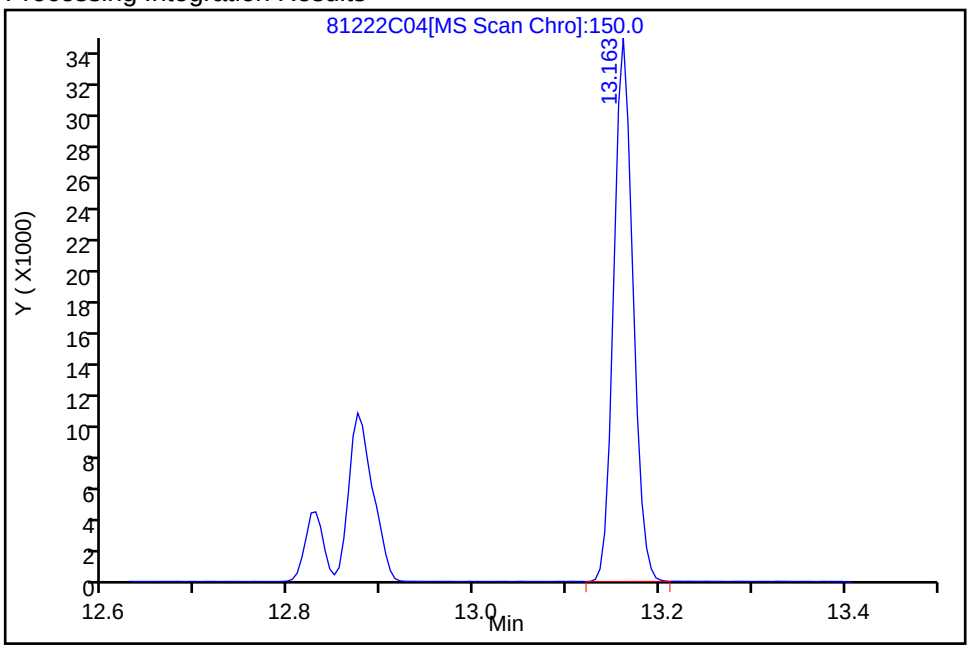
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C04.D		
Injection Date:	23-Dec-2015 00:37:30	Inst. ID:	msd8.i
Client ID:	VSTD2.0SK	Lab ID:	VSTD2.0SK
Sample Info:	8122215C.b, VSTD2.0SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 78 1,2-Dichlorobenzene-d4, CAS: 2199-69-1

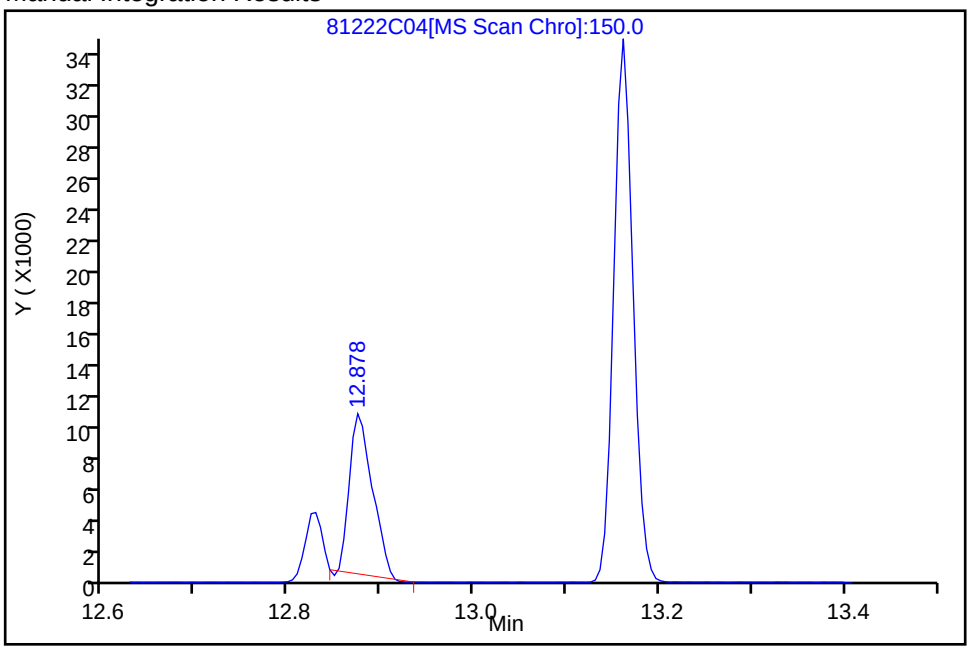
Processing Integration Results

RT: 13.163
Area: 49402
Amount: 0.87642
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 12.878
Area: 16985
Amount: 2.0935
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:40:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 23-Dec-2015 12:32:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C05.D		
Lab Sample ID:	VSTD1.0SK	Client Sample ID:	VSTD1.0SK
Injection Date:	23-Dec-2015 01:05:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, VSTD1.0SK		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Ical, Level: 4	ALS Bottle:	5
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 07:36:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 23 Chloroform-d	84.0	6.097	6.097	0.000	32617	1.0000	1.0275	
24 Chloroform	83.0	6.123	6.123	0.000	39419	1.0000	0.43108	
27 Carbon Tetrachloride	117.0	6.596	6.596	0.000	20809	1.0000	0.96485	
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	10236	1.0000	1.0215	
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	41766	1.0000	1.0154	
31 Benzene	78.0	6.865	6.865	0.000	46588	1.0000	0.96432	
32 1,2-Dichloroethane	62.0	6.882	6.882	0.000	14643	1.0000	0.98375	
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	19708	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.895	7.895	0.000	13463	1.0000	1.0407	M
37 1,2-Dichloropropane	63.0	8.020	8.020	0.000	13962	1.0000	0.95620	
39 Bromodichloromethane	83.0	8.384	8.384	0.000	15007	1.0000	0.98850	
40 cis-1,3-Dichloropropene	75.0	8.996	8.996	0.000	13081	1.0000	0.97450	
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	9987	1.0000	1.0797	
46 1,1,2-Trichloroethane	97.0	9.906	9.906	0.000	6233	1.0000	0.96529	
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	11017	10.000	10.832	
50 2-Hexanone	43.0	10.179	10.179	0.000	6293	10.000	10.854	M
52 1,2-Dibromoethane	107.0	10.454	10.454	0.000	6357	1.0000	1.0269	
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	15265	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	5859	1.0000	1.0458	
64 1,1,2,2-Tetrachloroethane	83.0	12.069	12.069	0.000	5760	1.0000	1.0004	
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	8007	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0	13.173	13.173	0.000	23137	1.0000	0.94453	
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	14072	1.0000	1.0149	M
80 1,2-Dibromo-3-chloropropane	75.0	13.722	13.722	0.000	699	1.0000	0.78940	
82 1,2,4-Trichlorobenzene	180.0	14.302	14.302	0.000	15492	1.0000	0.93010	
84 1,2,3-Trichlorobenzene	180.0	14.668	14.668	0.000	11591	1.0000	0.81302	

QC Flag Legend

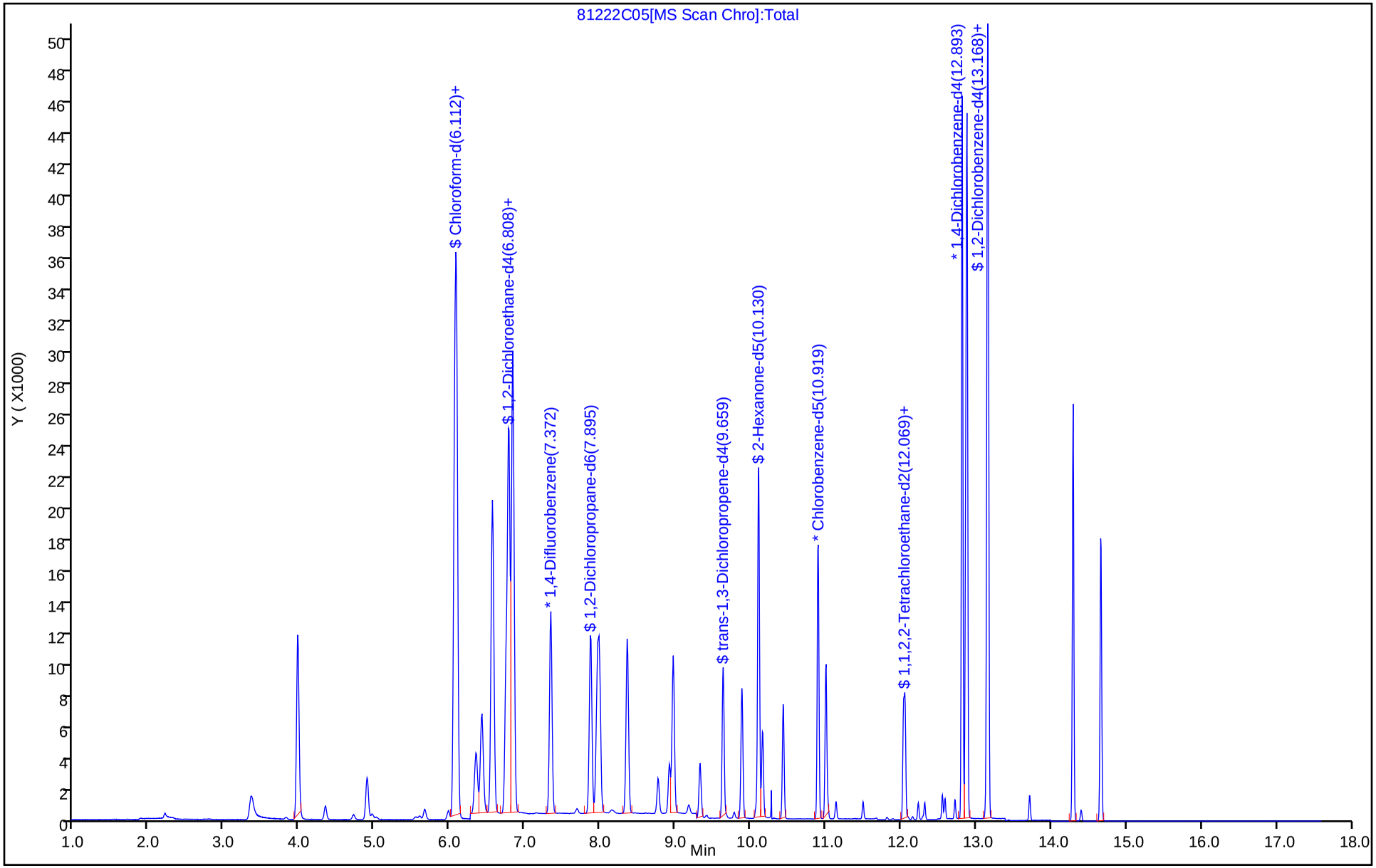
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 23-Dec-2015 12:32:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C05.D				
Injection Date:	23-Dec-2015 01:05:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	VSTD1.0SK	Lab ID:	VSTD1.0SK		
Sample Info:	8122215C.b, VSTD1.0SK				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 23-Dec-2015 12:32:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

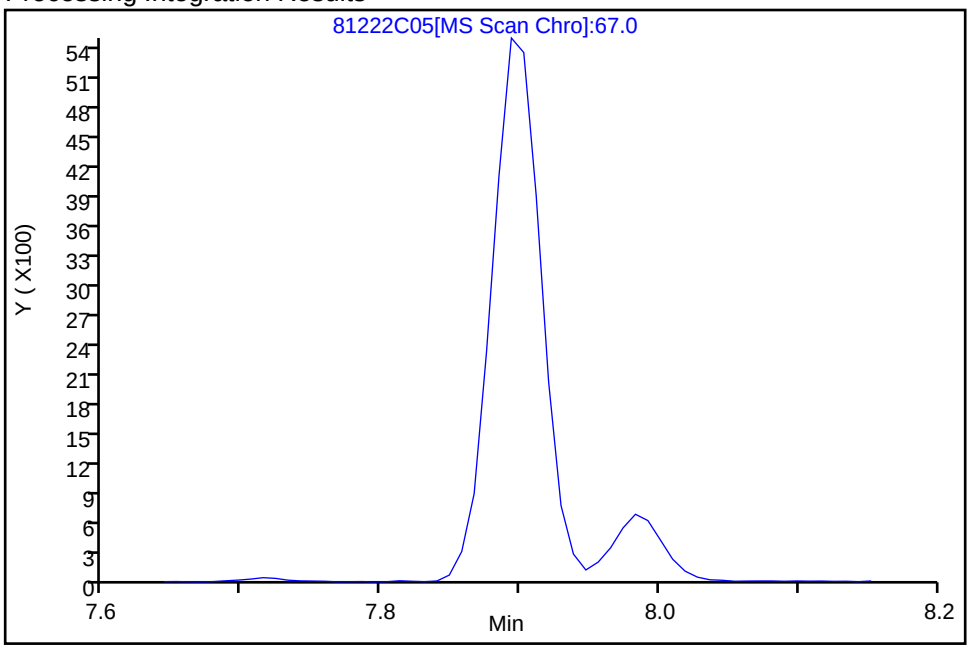
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C05.D		
Injection Date:	23-Dec-2015 01:05:30	Inst. ID:	msd8.i
Client ID:	VSTD1.0SK	Lab ID:	VSTD1.0SK
Sample Info:	8122215C.b, VSTD1.0SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

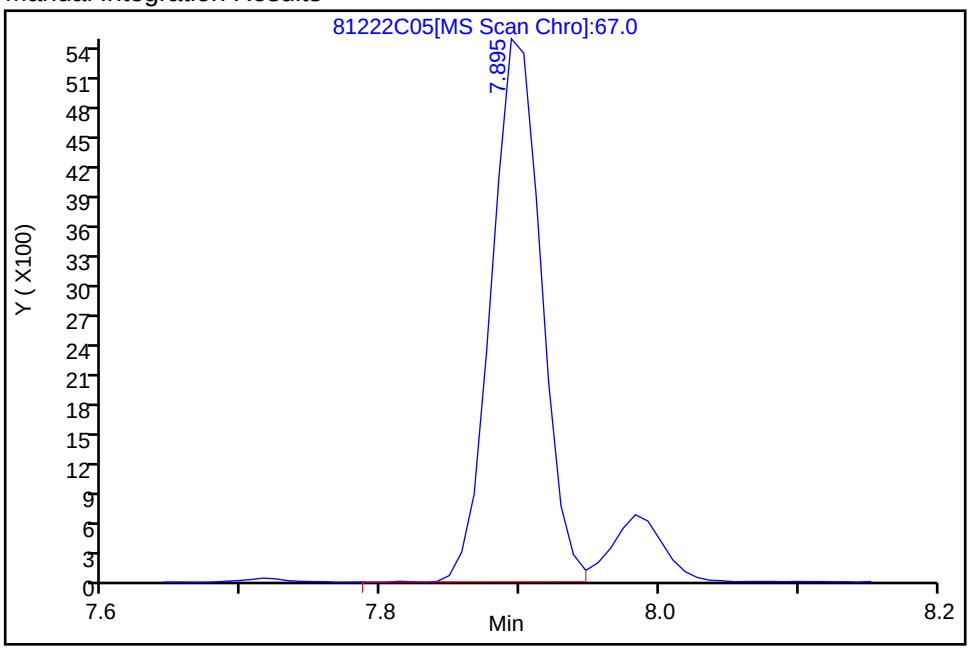
Not Detected
7.895

Processing Integration Results



Manual Integration Results

RT:	7.895
Area:	13463
Amount:	1.0407
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:29:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

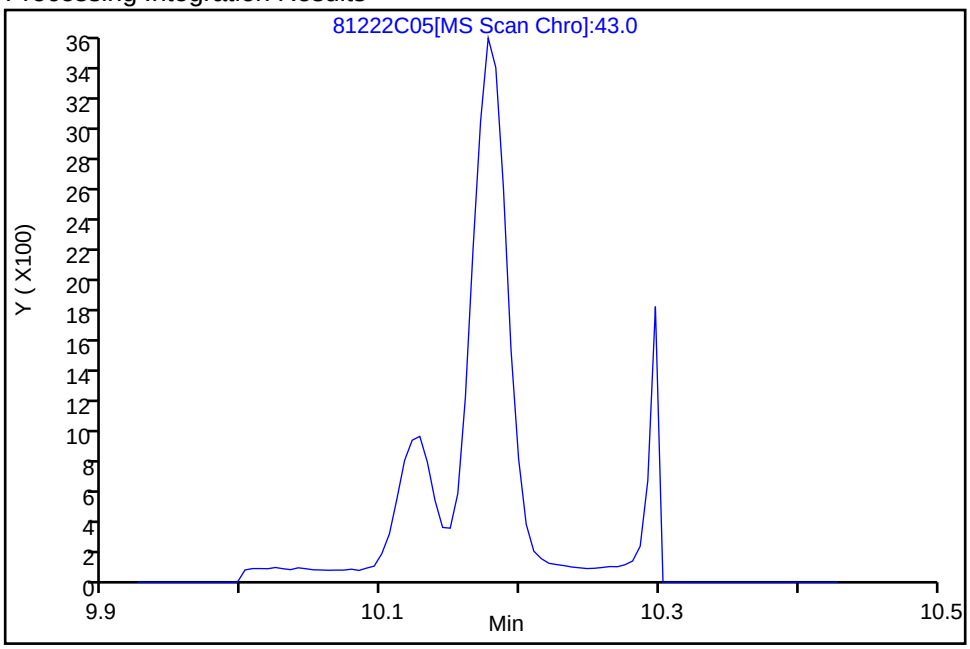
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C05.D		
Injection Date:	23-Dec-2015 01:05:30	Inst. ID:	msd8.i
Client ID:	VSTD1.0SK	Lab ID:	VSTD1.0SK
Sample Info:	8122215C.b, VSTD1.0SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

50 2-Hexanone, CAS: 591-78-6

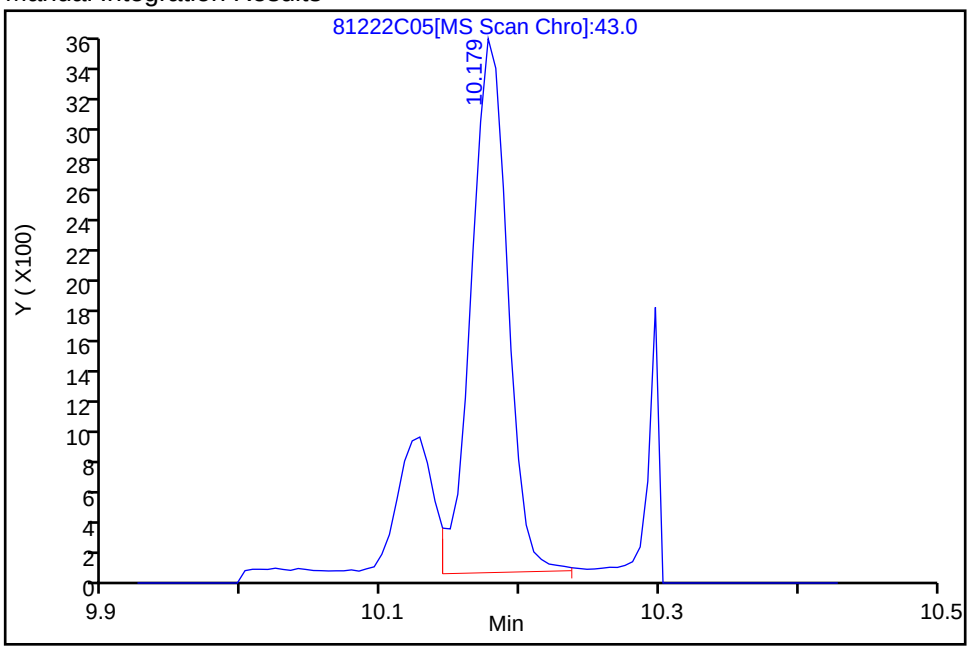
Not Detected
10.179

Processing Integration Results



Manual Integration Results

RT:	10.179
Area:	6293
Amount:	10.854
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:30:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

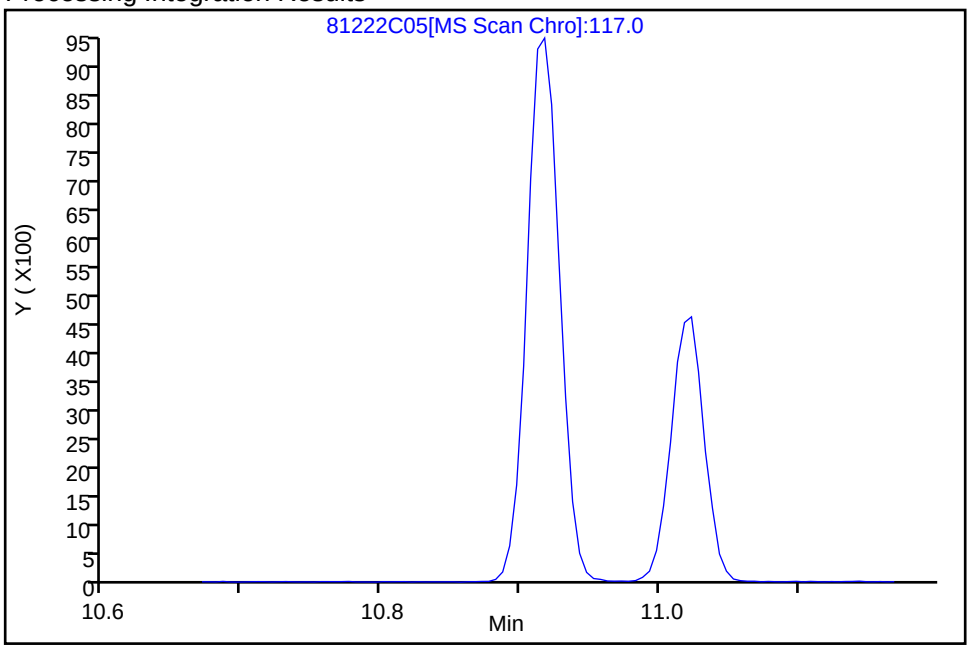
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C05.D		
Injection Date:	23-Dec-2015 01:05:30	Inst. ID:	msd8.i
Client ID:	VSTD1.0SK	Lab ID:	VSTD1.0SK
Sample Info:	8122215C.b, VSTD1.0SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

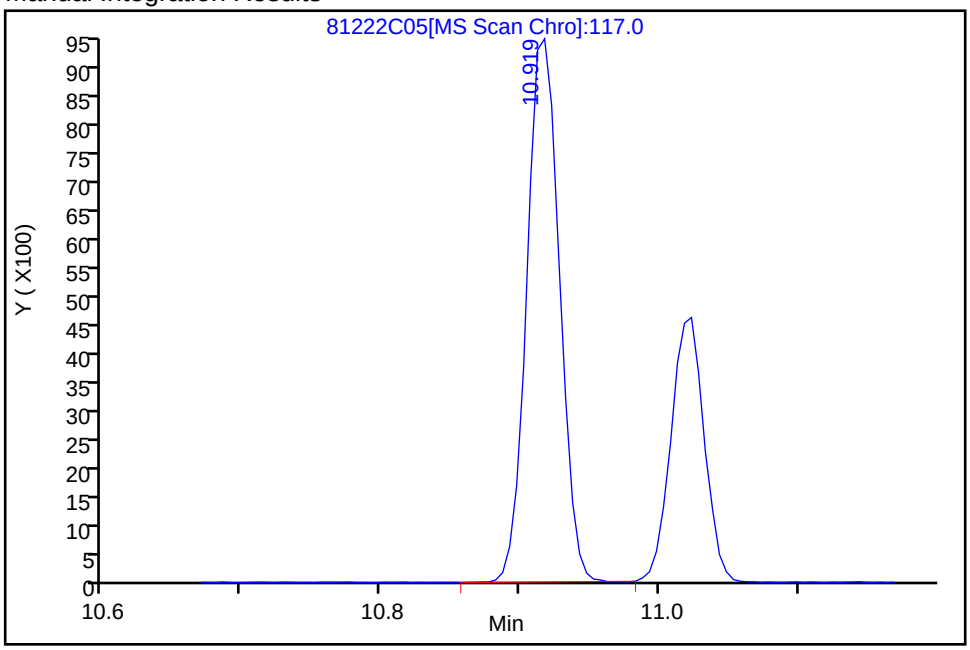
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	15265
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:30:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

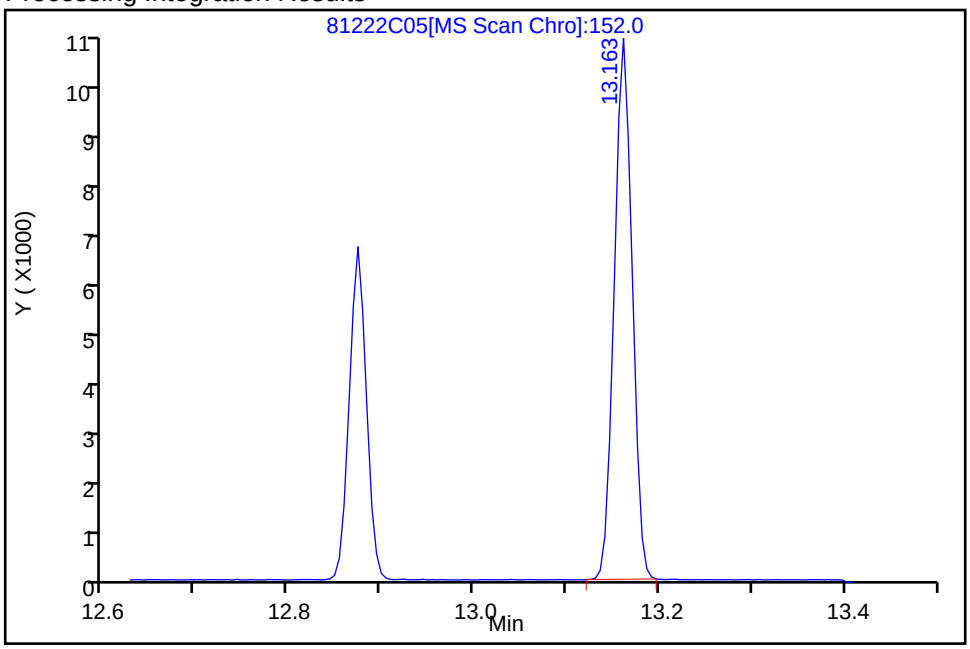
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C05.D		
Injection Date:	23-Dec-2015 01:05:30	Inst. ID:	msd8.i
Client ID:	VSTD1.0SK	Lab ID:	VSTD1.0SK
Sample Info:	8122215C.b, VSTD1.0SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

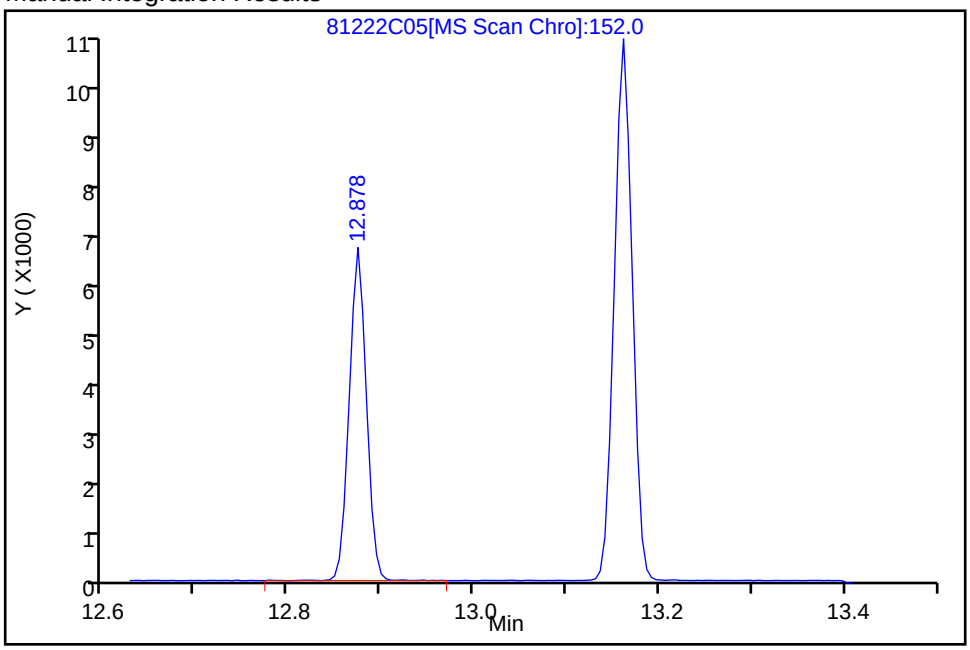
Processing Integration Results

RT: 13.163
Area: 14501
Amount: 0.50000
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 12.878
Area: 8007
Amount: 0.50000
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:36:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

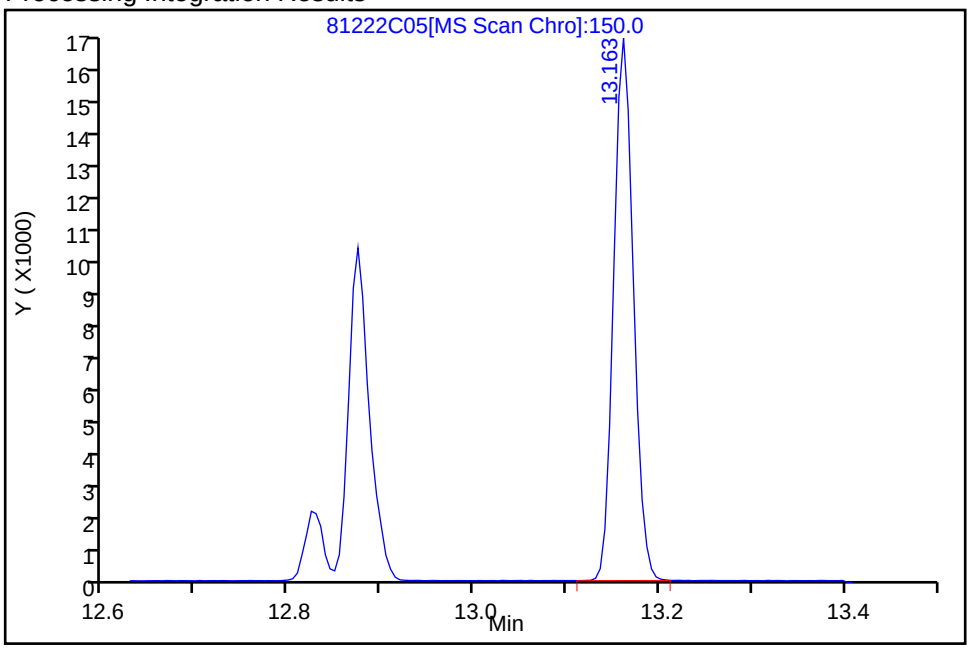
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C05.D		
Injection Date:	23-Dec-2015 01:05:30	Inst. ID:	msd8.i
Client ID:	VSTD1.0SK	Lab ID:	VSTD1.0SK
Sample Info:	8122215C.b, VSTD1.0SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 78 1,2-Dichlorobenzene-d4, CAS: 2199-69-1

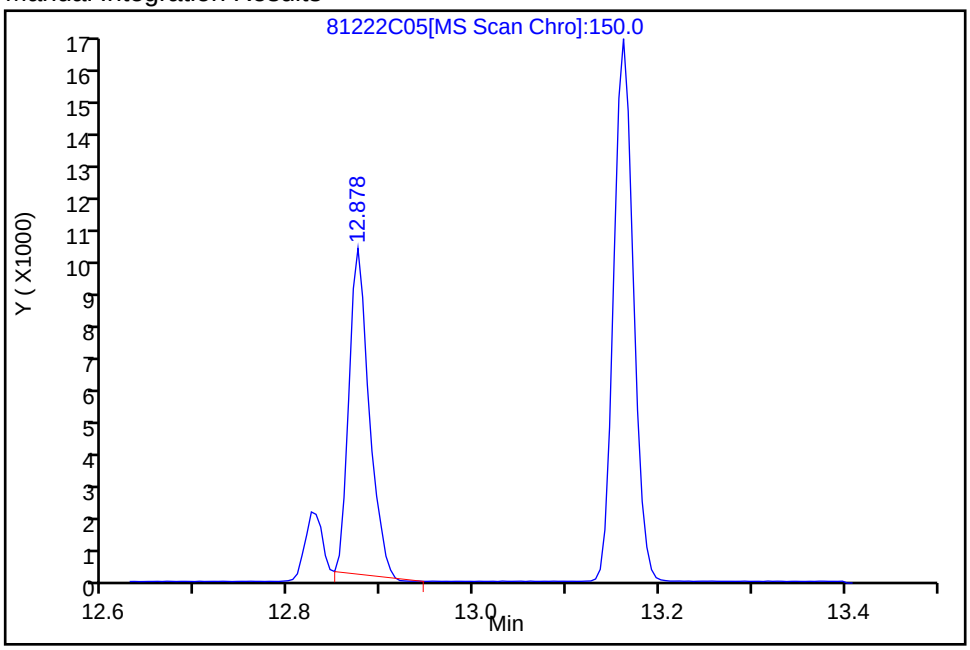
Processing Integration Results

RT: 13.163
Area: 24596
Amount: 0.92457
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 12.878
Area: 14469
Amount: 1.0149
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:40:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C06.D		
Lab Sample ID:	VSTD0.5SK	Client Sample ID:	VSTD0.5SK
Injection Date:	23-Dec-2015 01:31:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, VSTD0.5SK		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Ical, Level: 3	ALS Bottle:	6
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 07:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 23 Chloroform-d	84.0	6.096	6.096	0.000	15787	0.50000	0.50877	
24 Chloroform	83.0	6.123	6.123	0.000	24238	0.50000	0.27116	
27 Carbon Tetrachloride	117.0	6.596	6.596	0.000	10737	0.50000	0.50519	
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	5090	0.50000	0.51963	M
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	19878	0.50000	0.49041	
31 Benzene	78.0	6.865	6.865	0.000	23317	0.50000	0.48976	
32 1,2-Dichloroethane	62.0	6.881	6.881	0.000	7399	0.50000	0.50851	
* 33 1,4-Difluorobenzene	114.0	7.371	7.371	0.000	19265	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.904	7.904	0.000	6574	0.50000	0.51567	M
37 1,2-Dichloropropane	63.0	8.020	8.020	0.000	7086	0.50000	0.49245	
39 Bromodichloromethane	83.0	8.384	8.384	0.000	7611	0.50000	0.50873	
40 cis-1,3-Dichloropropene	75.0	8.996	8.996	0.000	6591	0.50000	0.49826	
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	4737	0.50000	0.51966	
46 1,1,2-Trichloroethane	97.0	9.906	9.906	0.000	3225	0.50000	0.50682	
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	5163	5.0000	5.1514	
50 2-Hexanone	43.0	10.179	10.179	0.000	3120	5.0000	5.4605	M
52 1,2-Dibromoethane	107.0	10.454	10.454	0.000	3148	0.50000	0.51605	M
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	15043	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	2836	0.50000	0.51367	
64 1,1,2,2-Tetrachloroethane	83.0	12.069	12.069	0.000	2973	0.50000	0.52400	
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	7935	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0	12.893	12.893	0.000	13500	0.50000	0.55612	
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	6503	0.50000	0.14856	M
80 1,2-Dibromo-3-chloropropane	75.0	13.722	13.722	0.000	386	0.50000	0.43988	
82 1,2,4-Trichlorobenzene	180.0	14.302	14.302	0.000	8024	0.50000	0.48611	
84 1,2,3-Trichlorobenzene	180.0	14.668	14.668	0.000	5960	0.50000	0.42184	

QC Flag Legend

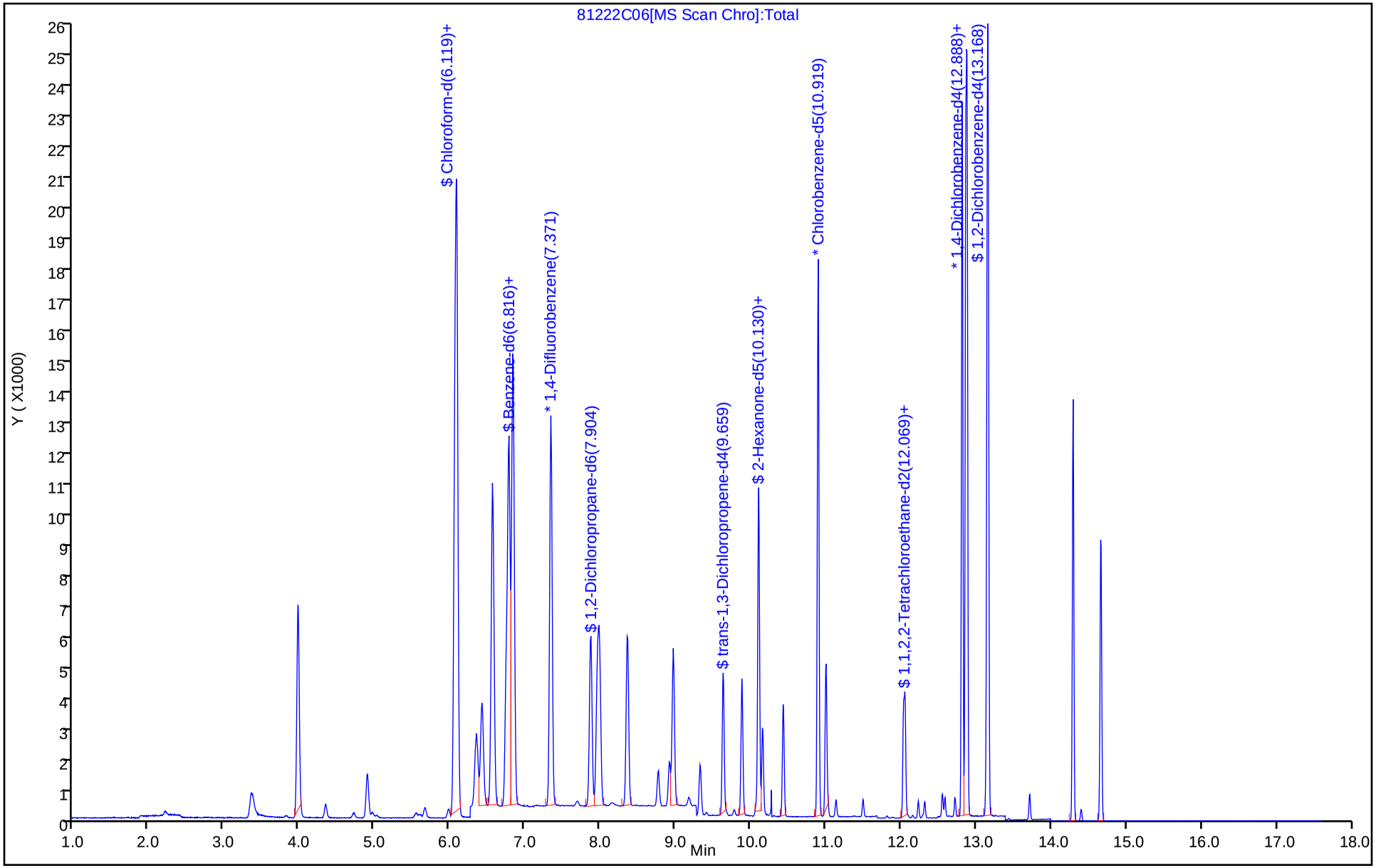
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C06.D				
Injection Date:	23-Dec-2015 01:31:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	VSTD0.5SK	Lab ID:	VSTD0.5SK		
Sample Info:	8122215C.b, VSTD0.5SK				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

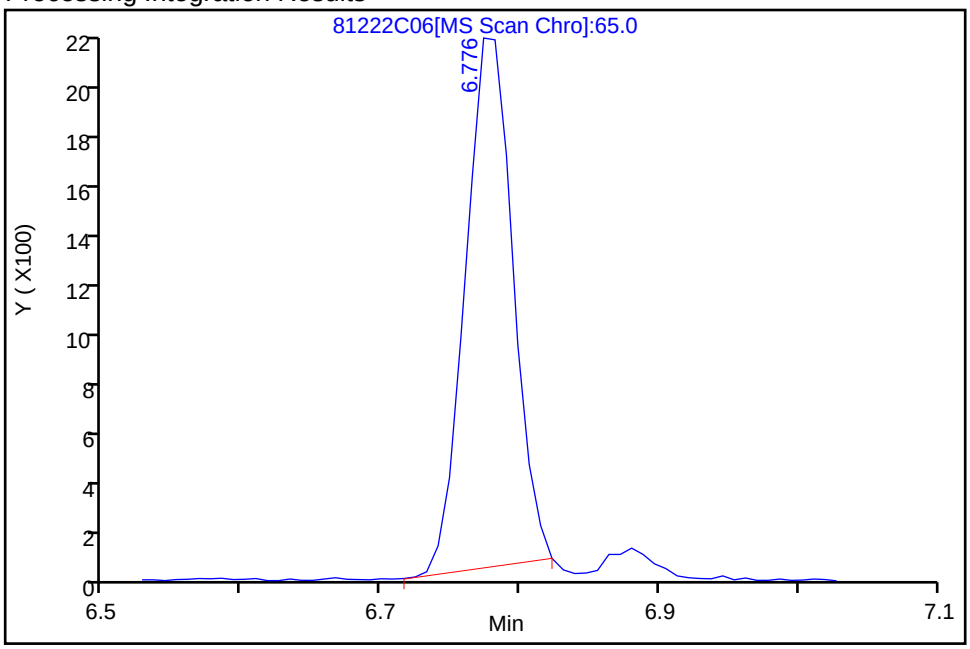
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C06.D		
Injection Date:	23-Dec-2015 01:31:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SK	Lab ID:	VSTD0.5SK
Sample Info:	8122215C.b, VSTD0.5SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 29 1,2-Dichloroethane-d4, CAS: 17060-07-0

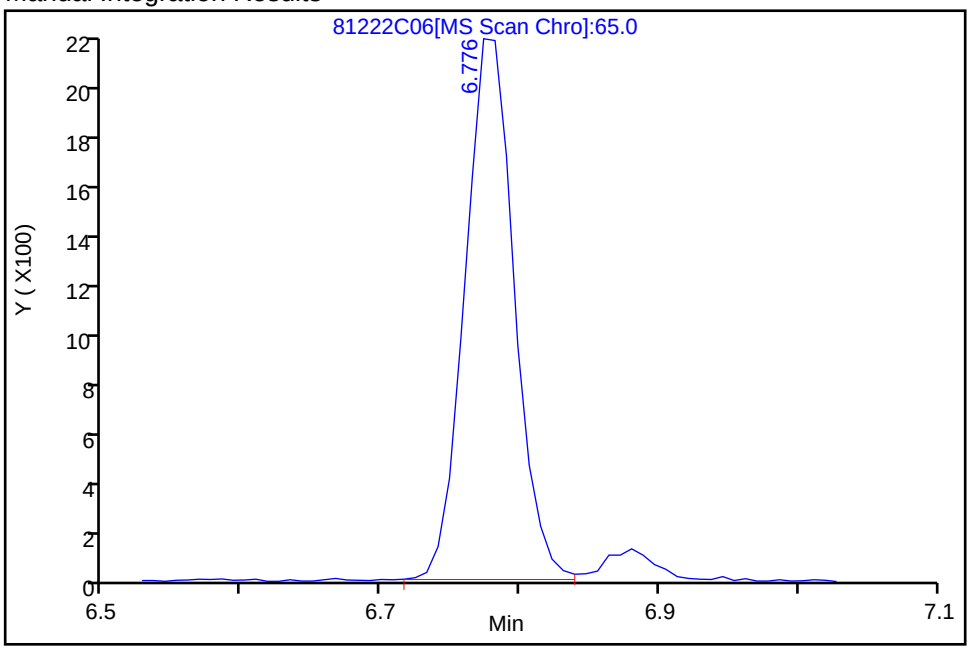
Processing Integration Results

RT: 6.776
Area: 4724
Amount: 1.0000
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 6.776
Area: 5090
Amount: 0.51963
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:23:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

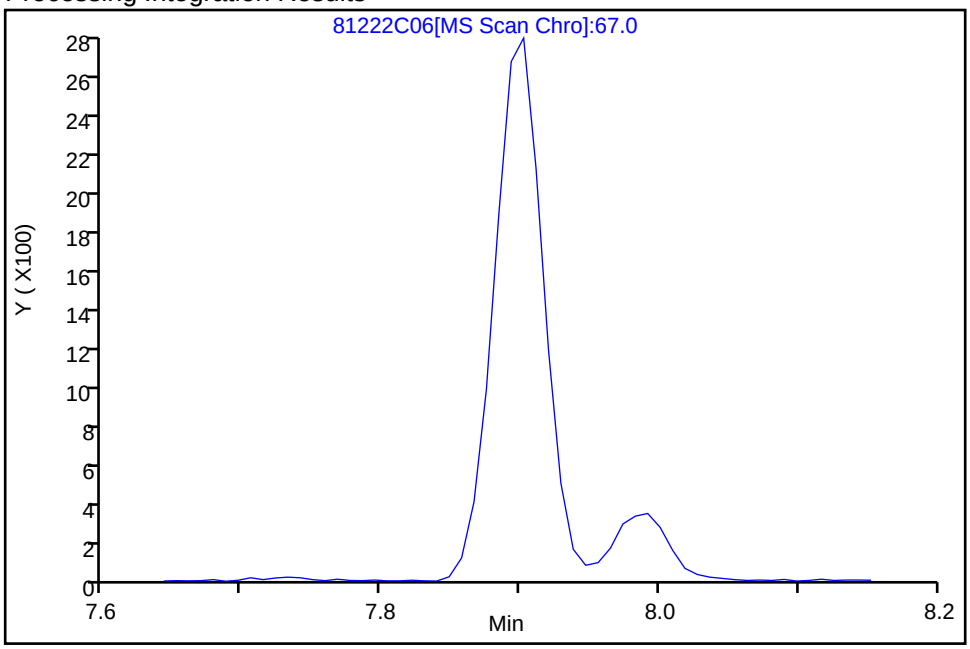
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C06.D		
Injection Date:	23-Dec-2015 01:31:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SK	Lab ID:	VSTD0.5SK
Sample Info:	8122215C.b, VSTD0.5SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

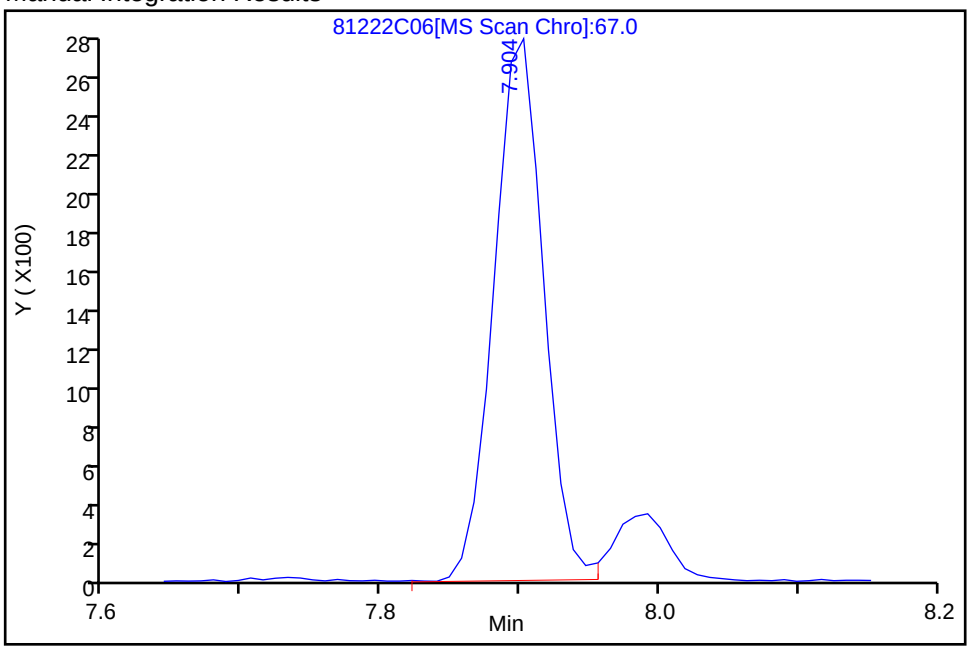
Not Detected
7.904

Processing Integration Results



Manual Integration Results

RT:	7.904
Area:	6574
Amount:	0.51567
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:23:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

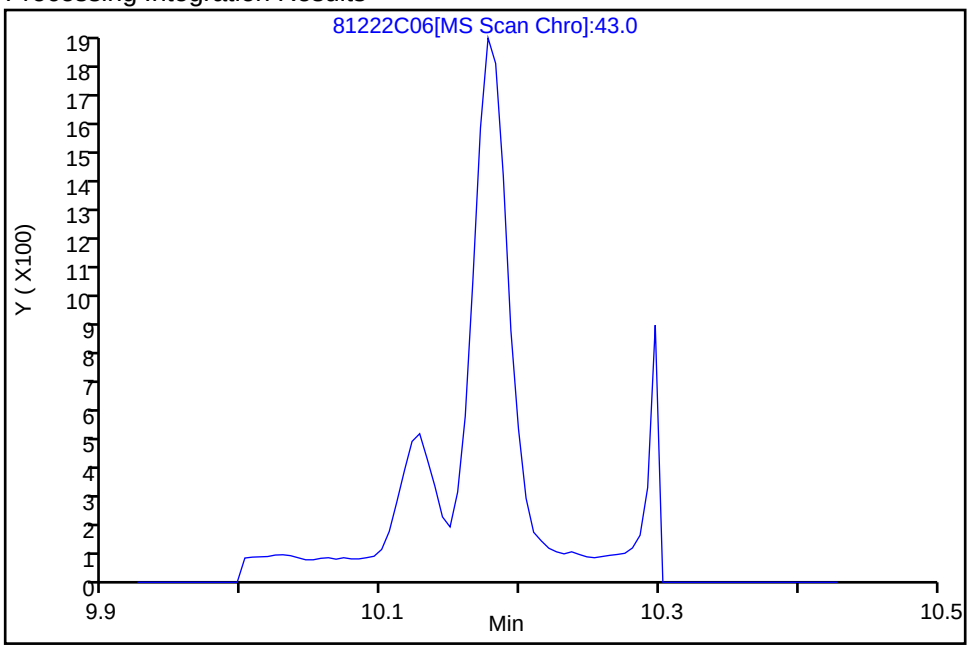
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C06.D		
Injection Date:	23-Dec-2015 01:31:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SK	Lab ID:	VSTD0.5SK
Sample Info:	8122215C.b, VSTD0.5SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

50 2-Hexanone, CAS: 591-78-6

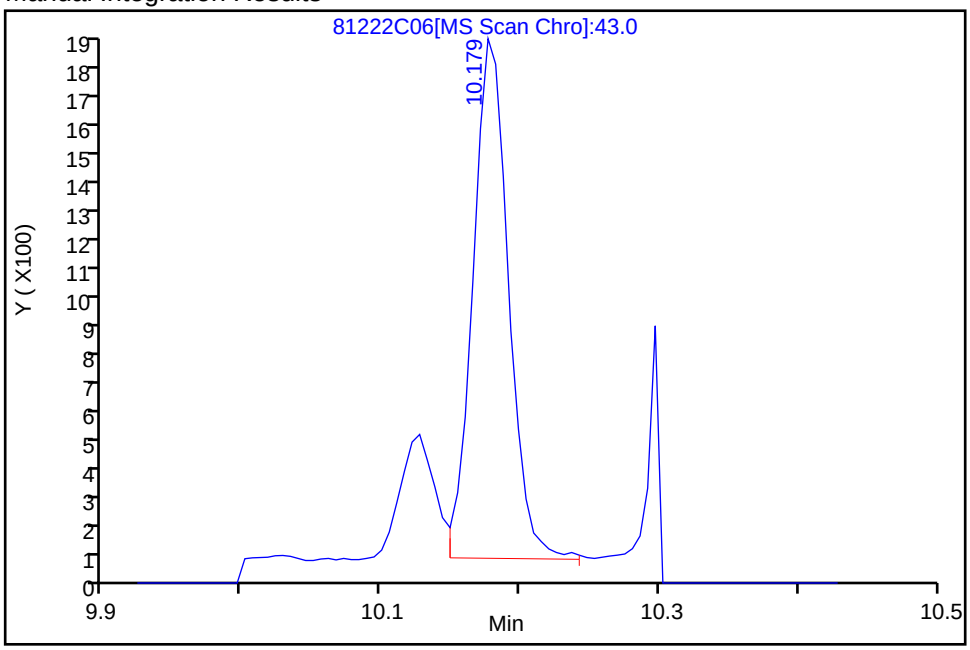
Not Detected
10.179

Processing Integration Results



Manual Integration Results

RT:	10.179
Area:	3120
Amount:	5.4605
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:27:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

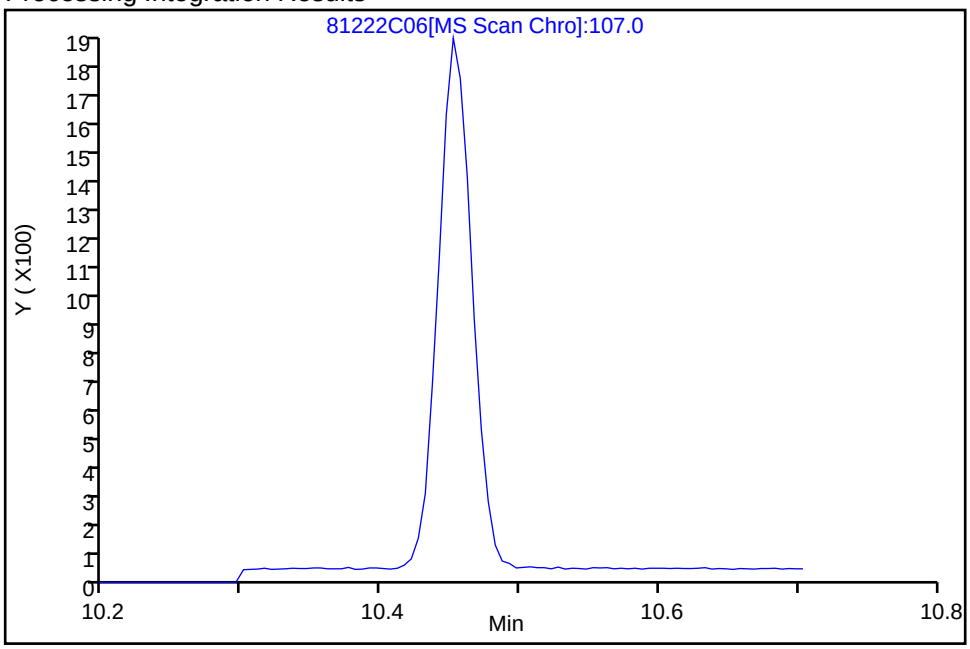
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C06.D		
Injection Date:	23-Dec-2015 01:31:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SK	Lab ID:	VSTD0.5SK
Sample Info:	8122215C.b, VSTD0.5SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

52 1,2-Dibromoethane, CAS: 106-93-4

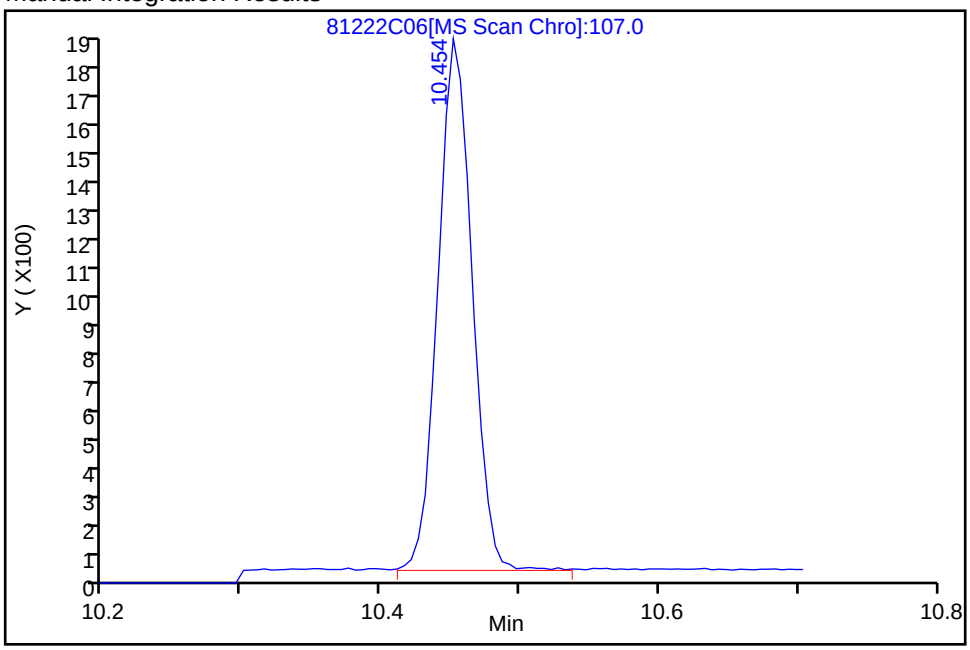
Not Detected
10.454

Processing Integration Results



Manual Integration Results

RT:	10.454
Area:	3148
Amount:	0.51605
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:25:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

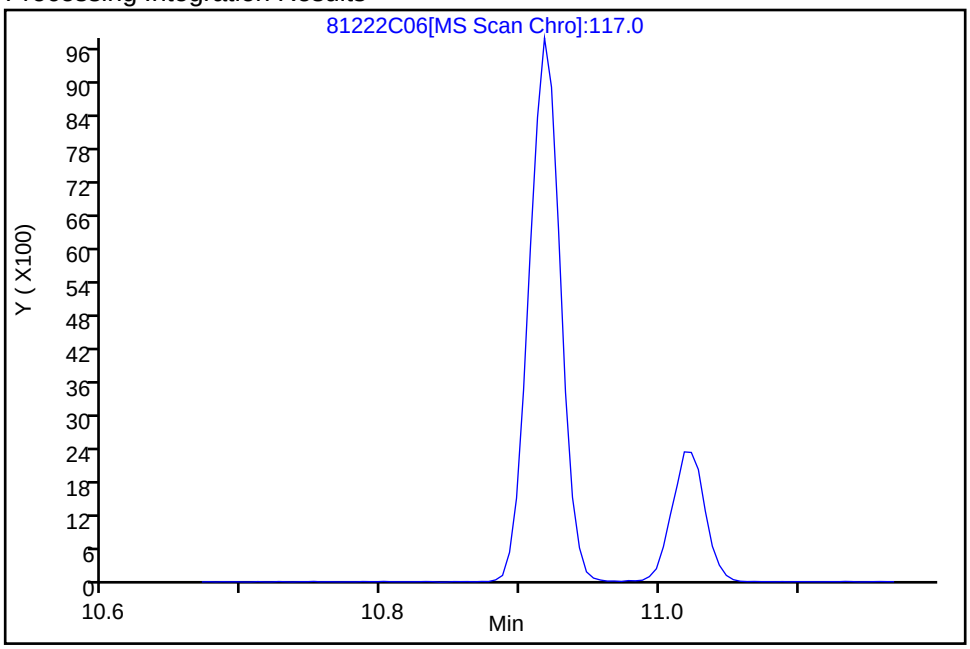
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C06.D		
Injection Date:	23-Dec-2015 01:31:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SK	Lab ID:	VSTD0.5SK
Sample Info:	8122215C.b, VSTD0.5SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

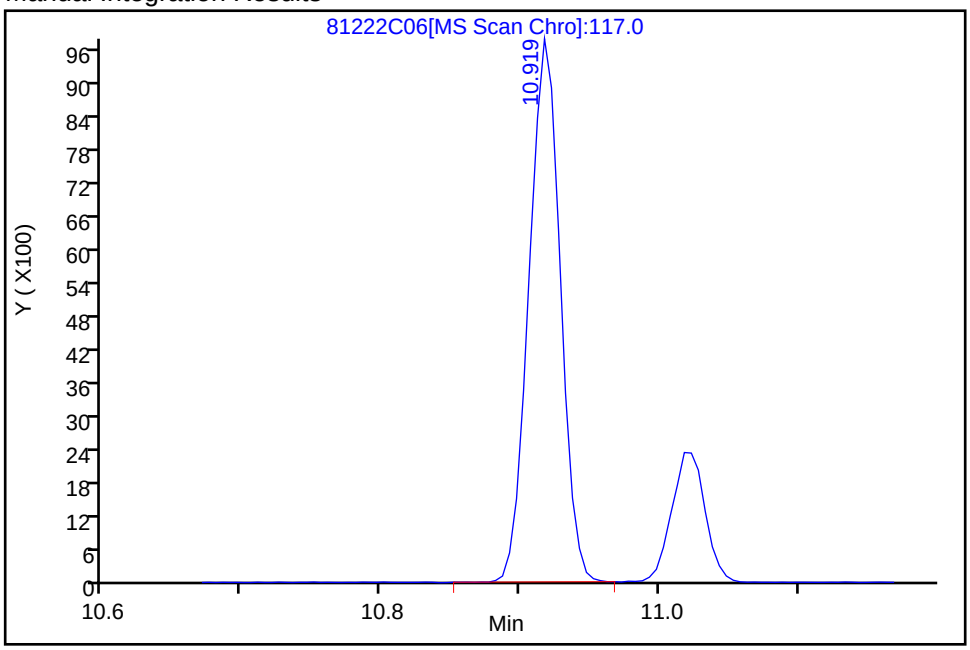
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	15043
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:25:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

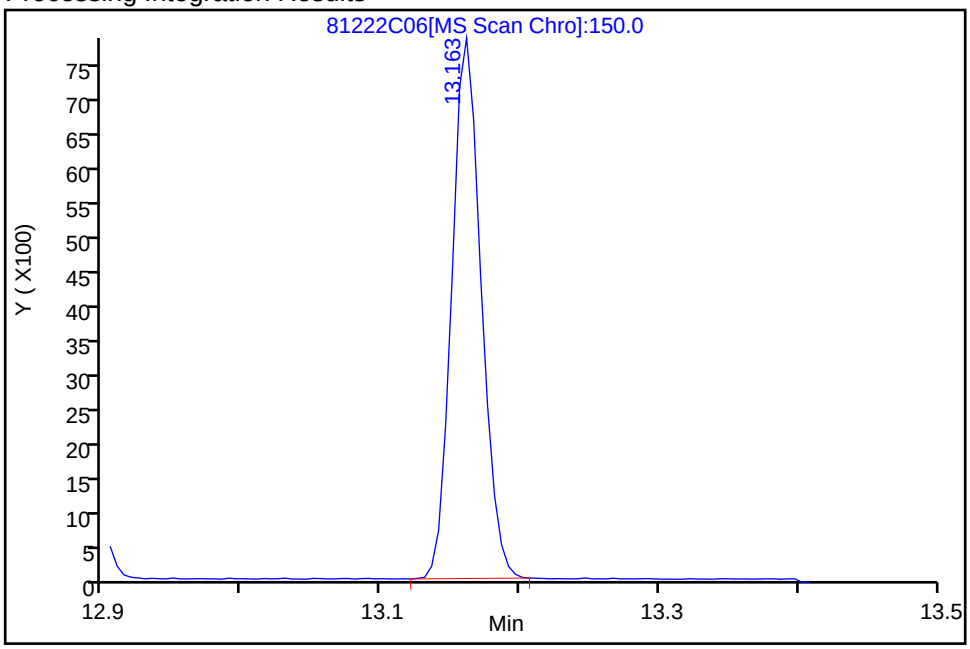
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C06.D		
Injection Date:	23-Dec-2015 01:31:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SK	Lab ID:	VSTD0.5SK
Sample Info:	8122215C.b, VSTD0.5SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 78 1,2-Dichlorobenzene-d4, CAS: 2199-69-1

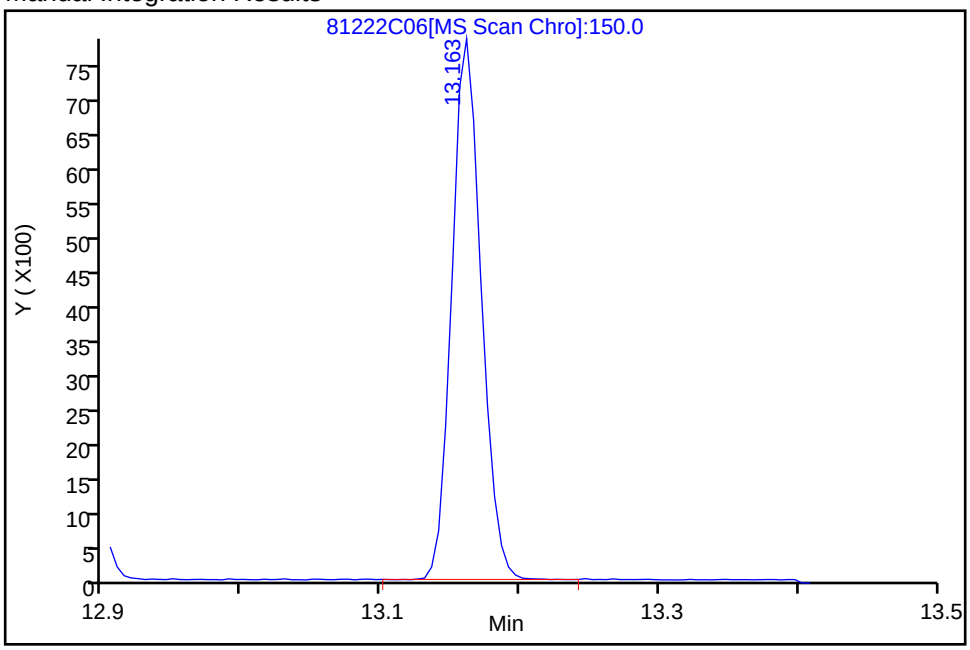
Processing Integration Results

RT: 13.163
Area: 11833
Amount: 0
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 13.163
Area: 11427
Amount: 0.14856
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:43:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

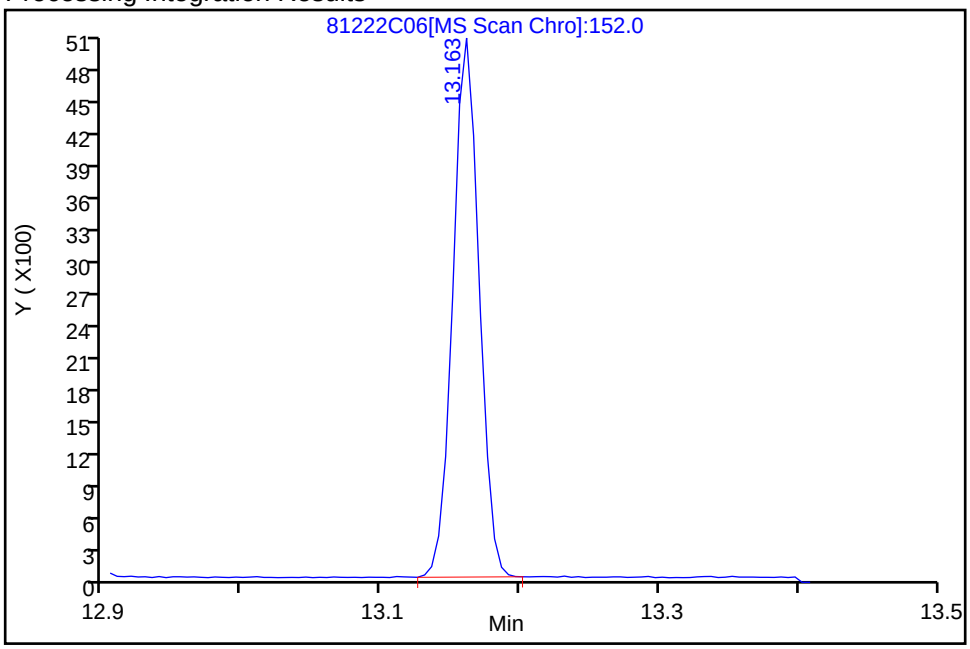
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C06.D		
Injection Date:	23-Dec-2015 01:31:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SK	Lab ID:	VSTD0.5SK
Sample Info:	8122215C.b, VSTD0.5SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 78 1,2-Dichlorobenzene-d4, CAS: 2199-69-1

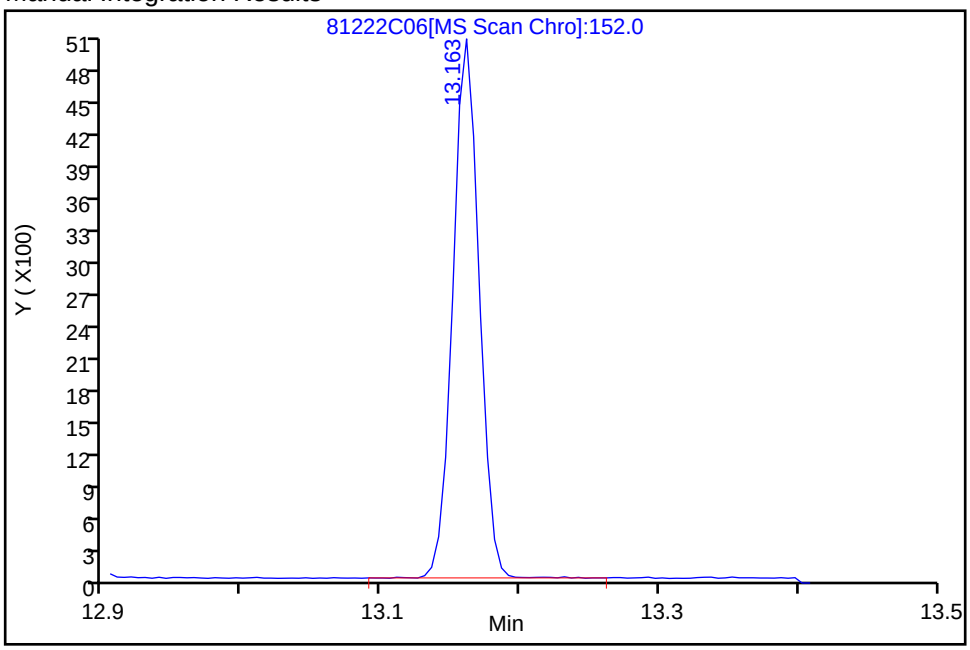
Processing Integration Results

RT: 13.163
Area: 6726
Amount: 0
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 13.163
Area: 6503
Amount: 0.14856
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:43:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D		
Lab Sample ID:	VSTD0.1SK	Client Sample ID:	VSTD0.1SK
Injection Date:	23-Dec-2015 01:58:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, VSTD0.1SK		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Ical, Level: 2	ALS Bottle:	7
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 07:37:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 23 Chloroform-d	84.0	6.100	6.100	0.000	3134	0.10000	0.09319	M
24 Chloroform	83.0	6.123	6.123	0.000	13103	0.10000	0.13525	
27 Carbon Tetrachloride	117.0	6.596	6.596	0.000	2366	0.10000	0.10396	
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	1046	0.10000	0.09853	M
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	4256	0.10000	0.09805	
31 Benzene	78.0	6.865	6.865	0.000	5192	0.10000	0.10184	
32 1,2-Dichloroethane	62.0	6.882	6.882	0.000	1625	0.10000	0.10305	M
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	20879	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.904	7.904	0.000	1274	0.10000	0.09332	M
37 1,2-Dichloropropane	63.0	8.011	8.011	0.000	1615	0.10000	0.10481	
39 Bromodichloromethane	83.0	8.384	8.384	0.000	1682	0.10000	0.10499	
40 cis-1,3-Dichloropropene	75.0	8.996	8.996	0.000	1349	0.10000	0.09523	
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	901	0.10000	0.09230	
46 1,1,2-Trichloroethane	97.0	9.906	9.906	0.000	731	0.10000	0.10728	
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	1022	1.0000	0.95223	M
50 2-Hexanone	43.0	10.179	10.179	0.000	620	1.0000	1.0133	M
52 1,2-Dibromoethane	107.0	10.454	10.454	0.000	659	0.10000	0.10088	M
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	16109	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	561	0.10000	0.09489	
64 1,1,2,2-Tetrachloroethane	83.0	12.074	12.074	0.000	666	0.10000	0.10962	
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	8079	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0	13.178	13.178	0.000	2668	0.10000	0.10795	M
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	1351	0.10000	0.09657	M
80 1,2-Dibromo-3-chloropropane	75.0	13.722	13.722	0.000	117	0.10000	0.13095	
82 1,2,4-Trichlorobenzene	180.0	14.302	14.302	0.000	1914	0.10000	0.11389	
84 1,2,3-Trichlorobenzene	180.0	14.302	14.302	0.000	1914	0.10000	0.13306	

QC Flag Legend

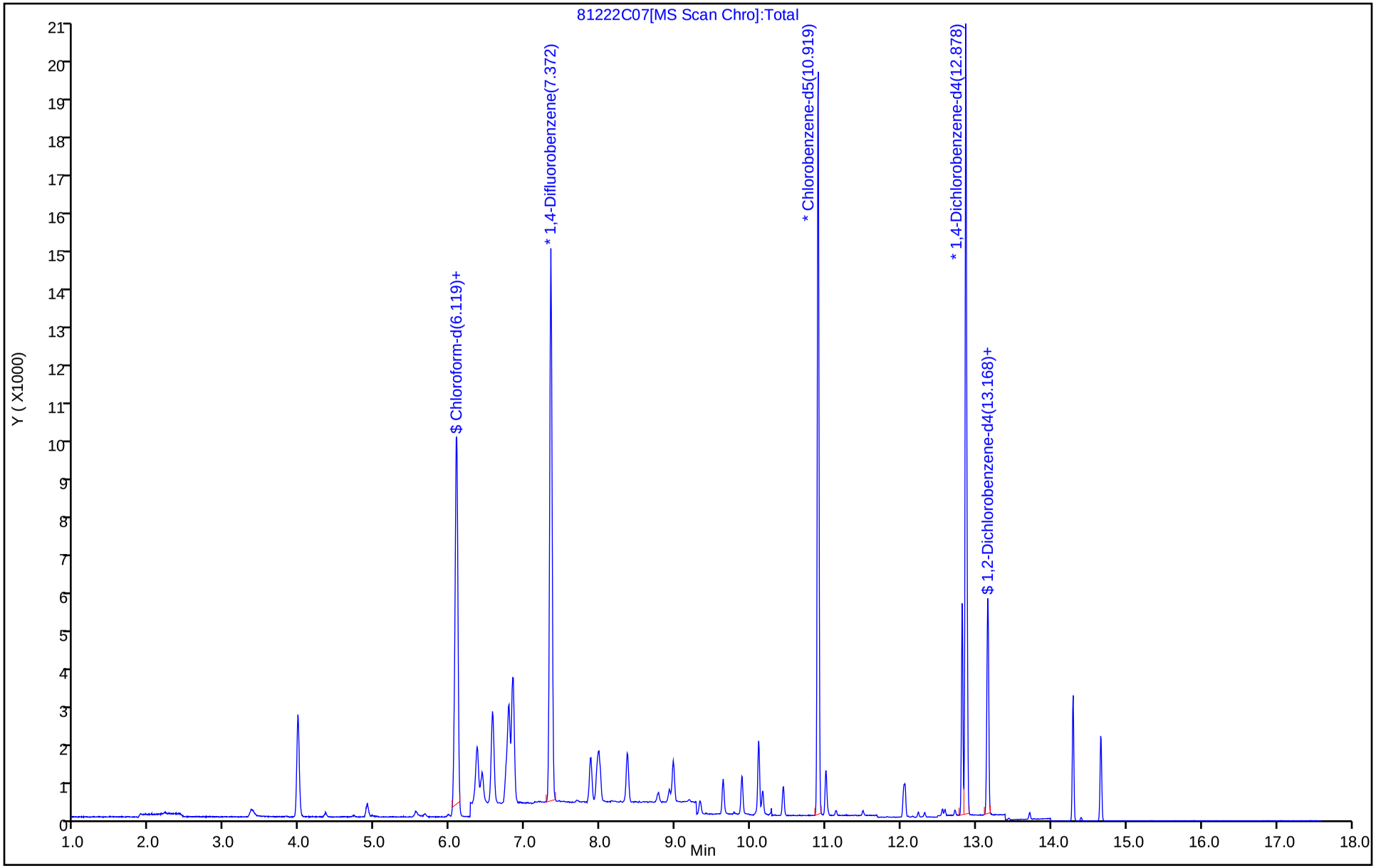
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D				
Injection Date:	23-Dec-2015 01:58:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	VSTD0.1SK	Lab ID:	VSTD0.1SK		
Sample Info:	8122215C.b, VSTD0.1SK				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

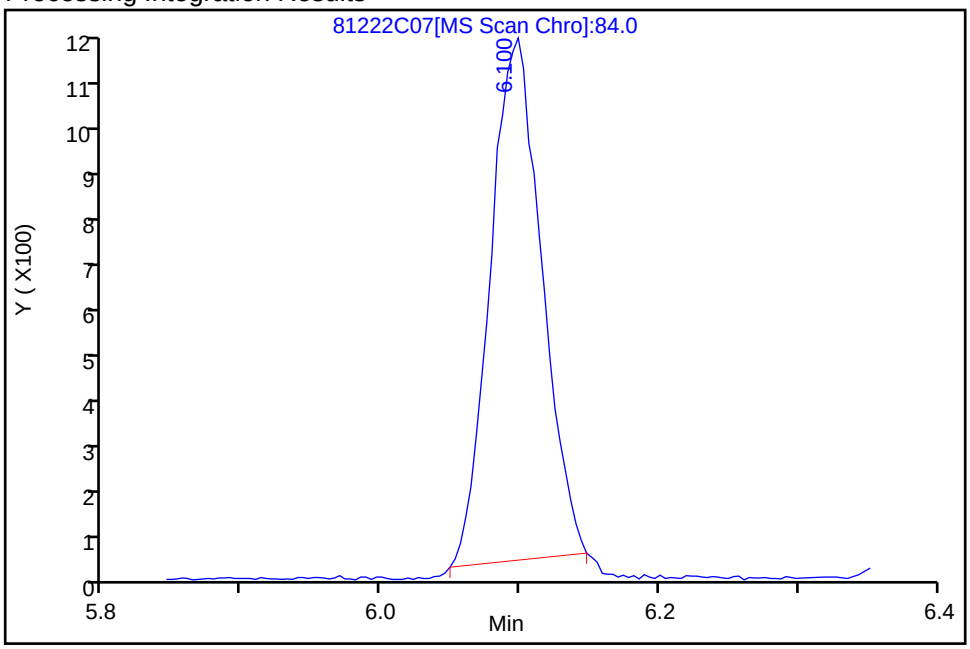
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D		
Injection Date:	23-Dec-2015 01:58:30	Inst. ID:	msd8.i
Client ID:	VSTD0.1SK	Lab ID:	VSTD0.1SK
Sample Info:	8122215C.b, VSTD0.1SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 23 Chloroform-d, CAS: 865-49-6

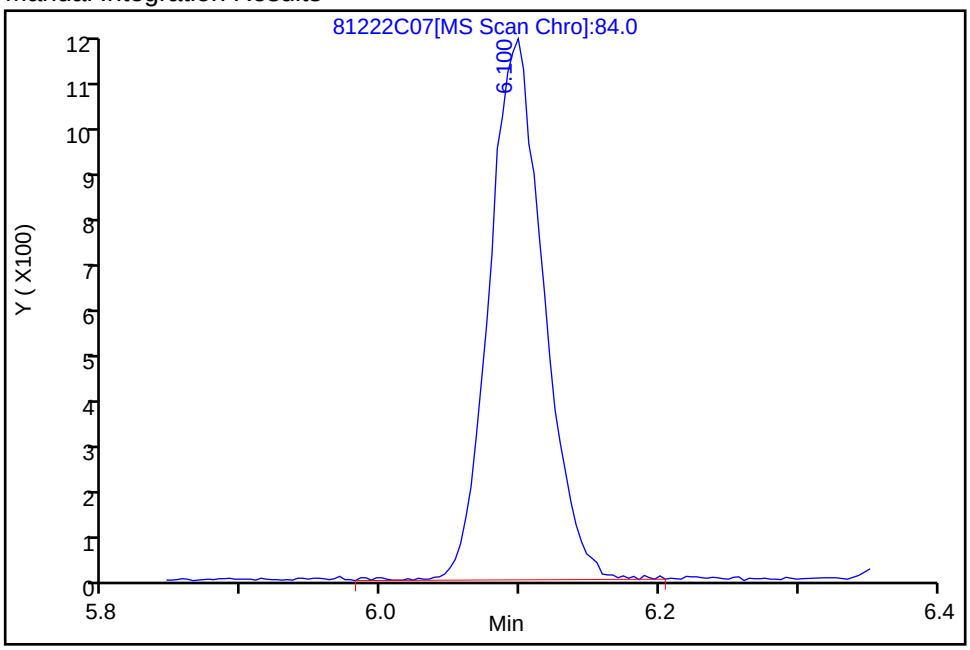
Processing Integration Results

RT: 6.100
Area: 3372
Amount: 0.17868
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 6.100
Area: 3134
Amount: 0.09319
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:11:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

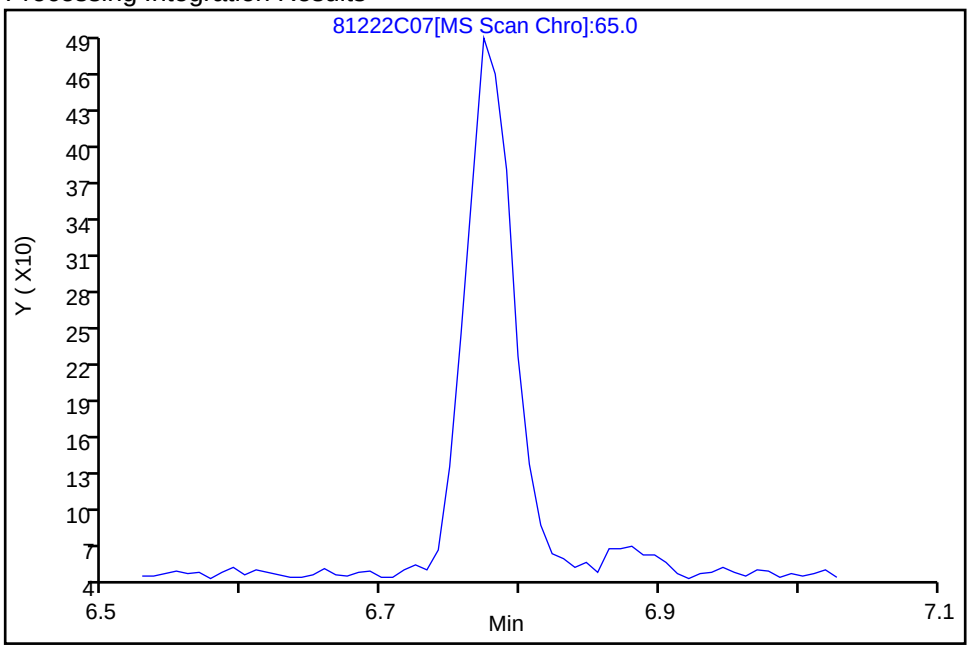
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D		
Injection Date:	23-Dec-2015 01:58:30	Inst. ID:	msd8.i
Client ID:	VSTD0.1SK	Lab ID:	VSTD0.1SK
Sample Info:	8122215C.b, VSTD0.1SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 29 1,2-Dichloroethane-d4, CAS: 17060-07-0

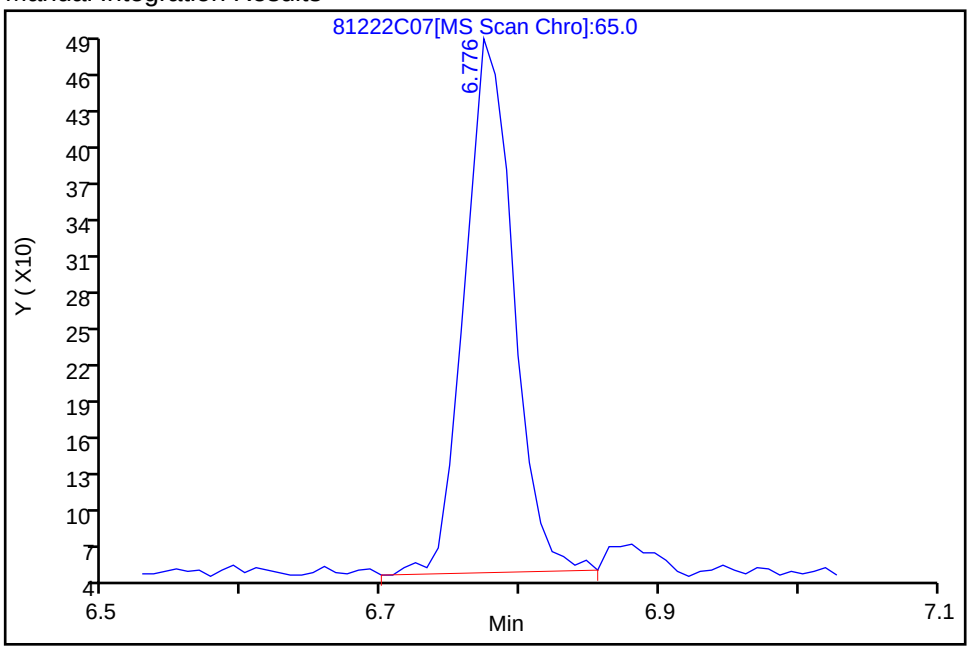
Not Detected
6.776

Processing Integration Results



Manual Integration Results

RT:	6.776
Area:	1046
Amount:	0.09853
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:11:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

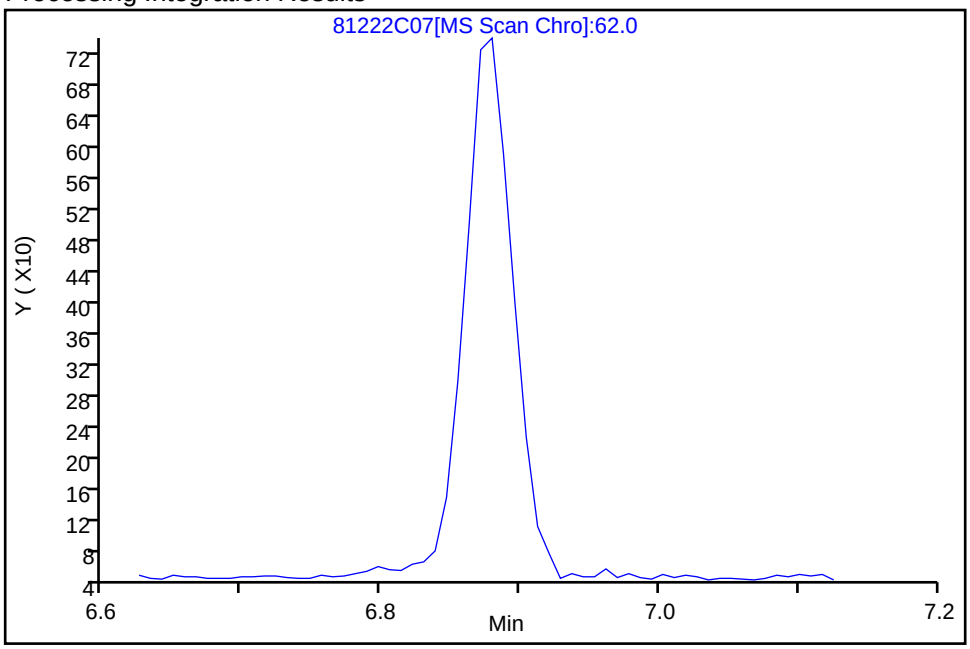
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D		
Injection Date:	23-Dec-2015 01:58:30	Inst. ID:	msd8.i
Client ID:	VSTD0.1SK	Lab ID:	VSTD0.1SK
Sample Info:	8122215C.b, VSTD0.1SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

32 1,2-Dichloroethane, CAS: 107-06-2

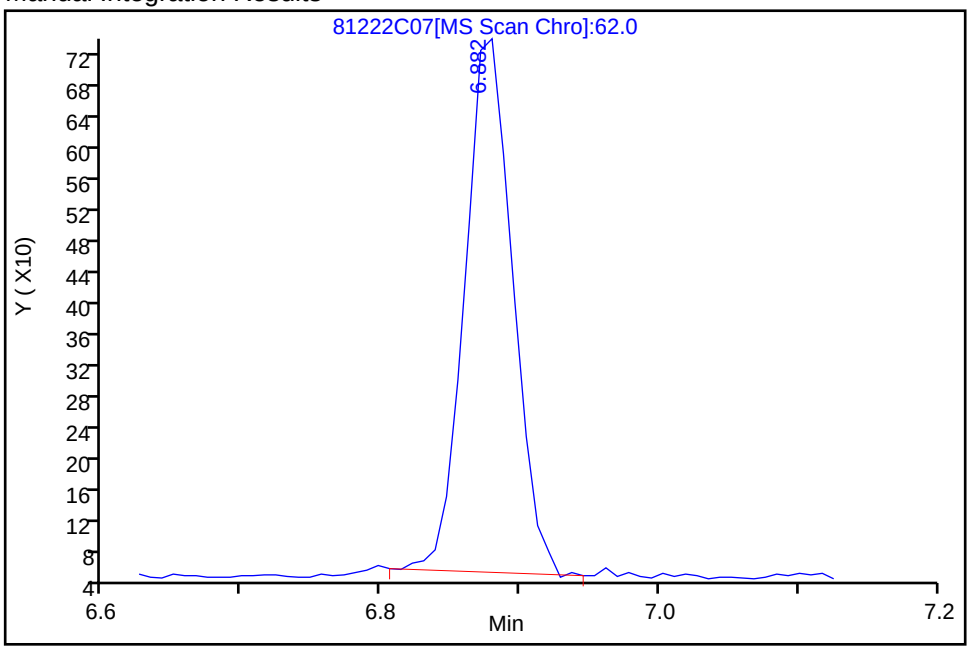
Not Detected
6.882

Processing Integration Results



Manual Integration Results

RT:	6.882
Area:	1625
Amount:	0.10305
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:11:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

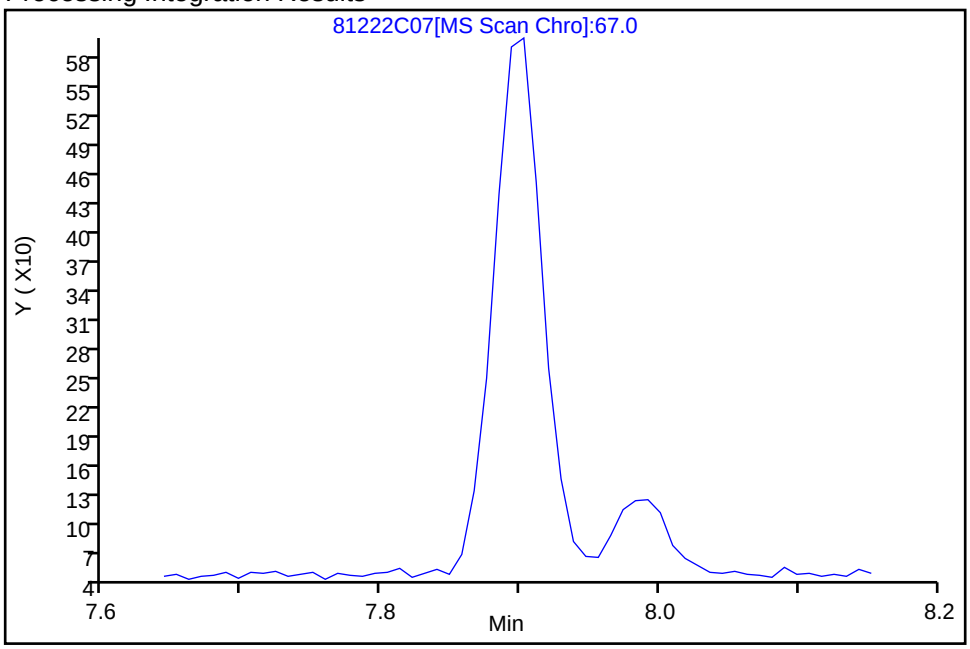
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D		
Injection Date:	23-Dec-2015 01:58:30	Inst. ID:	msd8.i
Client ID:	VSTD0.1SK	Lab ID:	VSTD0.1SK
Sample Info:	8122215C.b, VSTD0.1SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

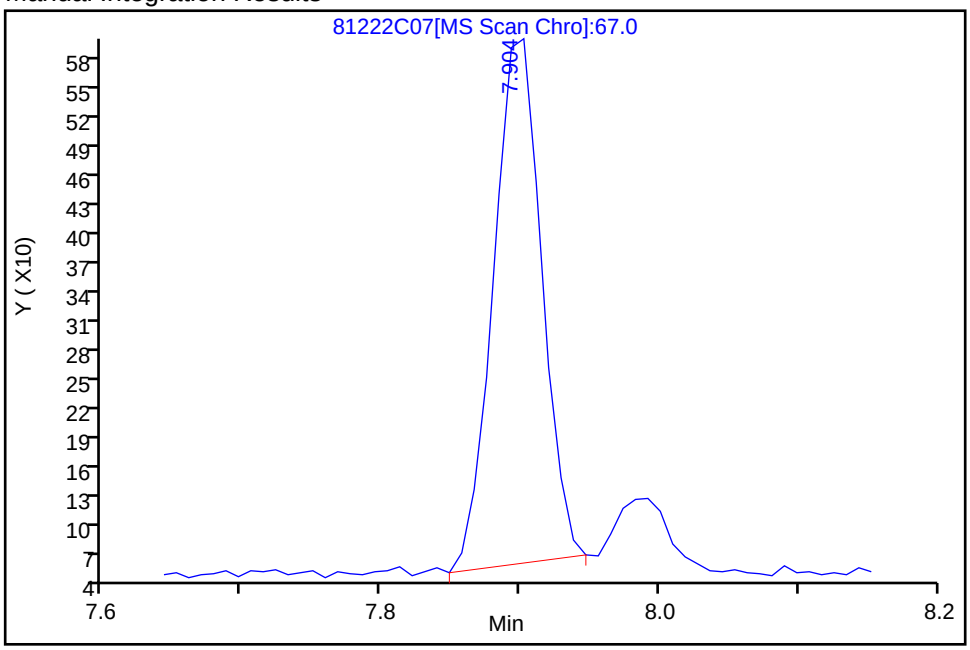
Not Detected
7.904

Processing Integration Results



Manual Integration Results

RT:	7.904
Area:	1274
Amount:	0.09332
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:11:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

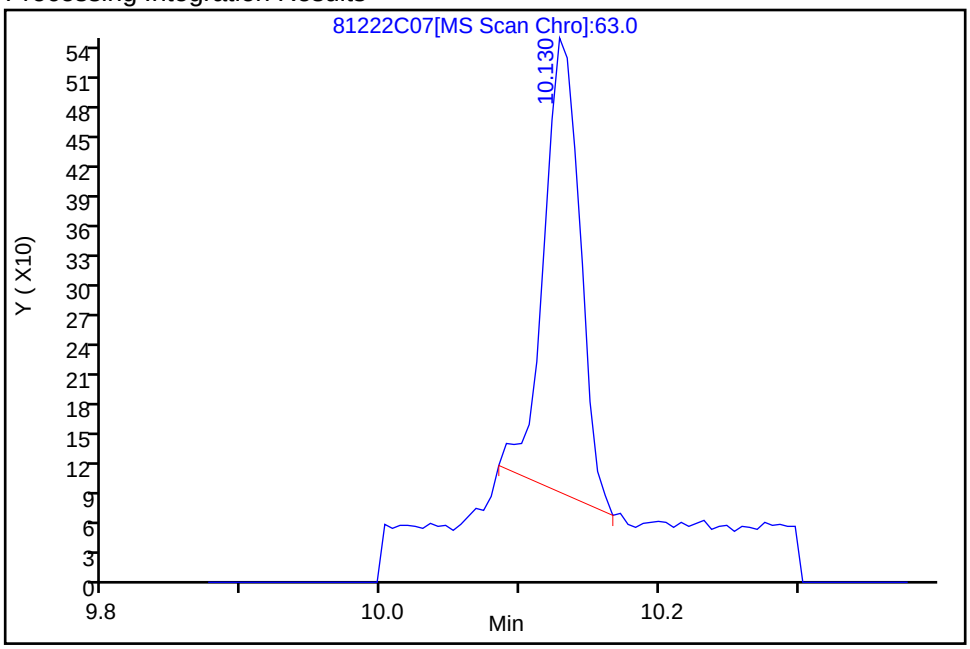
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D		
Injection Date:	23-Dec-2015 01:58:30	Inst. ID:	msd8.i
Client ID:	VSTD0.1SK	Lab ID:	VSTD0.1SK
Sample Info:	8122215C.b, VSTD0.1SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 49 2-Hexanone-d5, CAS: 4840-82-8

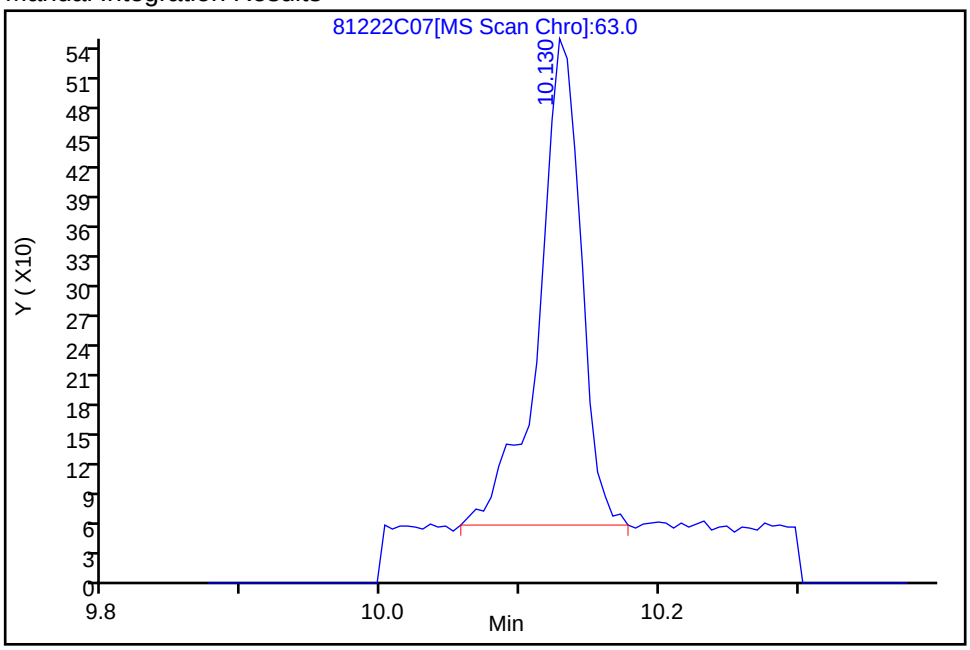
Processing Integration Results

RT: 10.130
Area: 800
Amount: 0
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 10.130
Area: 1022
Amount: 0.95223
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:11:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

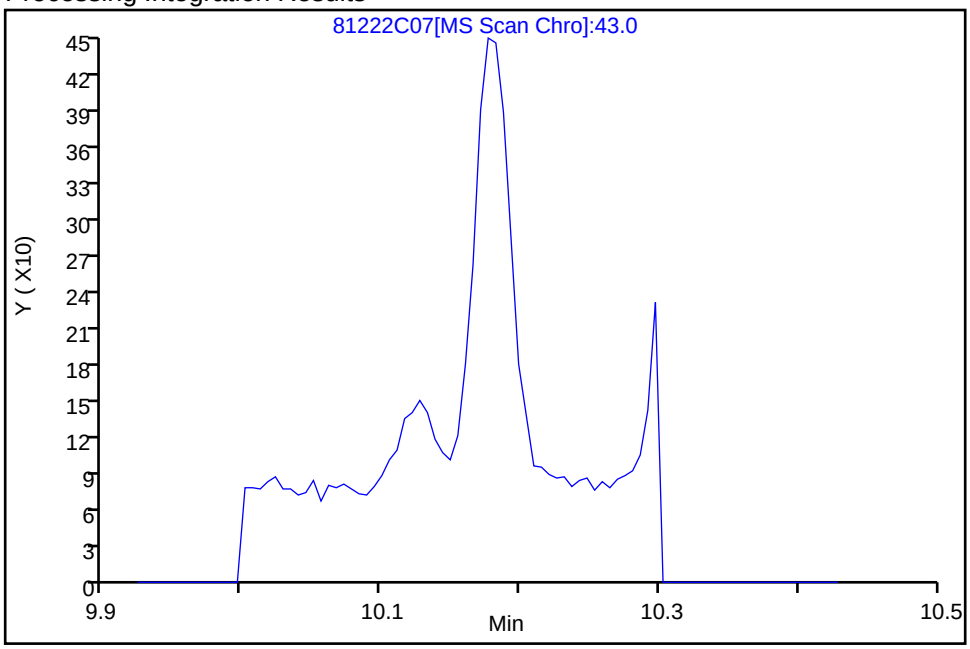
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D		
Injection Date:	23-Dec-2015 01:58:30	Inst. ID:	msd8.i
Client ID:	VSTD0.1SK	Lab ID:	VSTD0.1SK
Sample Info:	8122215C.b, VSTD0.1SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

50 2-Hexanone, CAS: 591-78-6

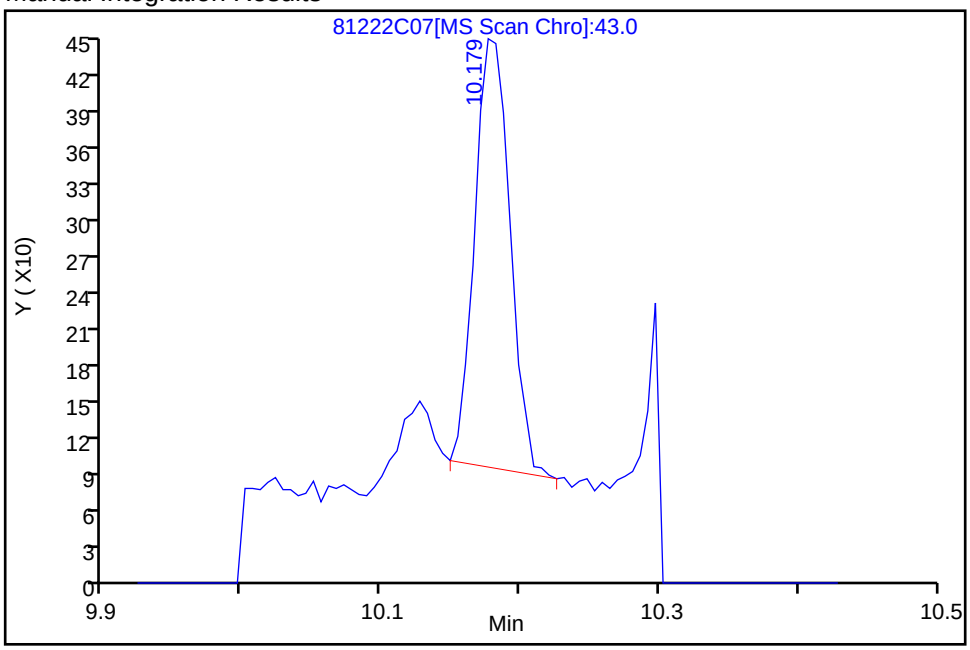
Not Detected
10.179

Processing Integration Results



Manual Integration Results

RT:	10.179
Area:	620
Amount:	1.0133
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:12:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

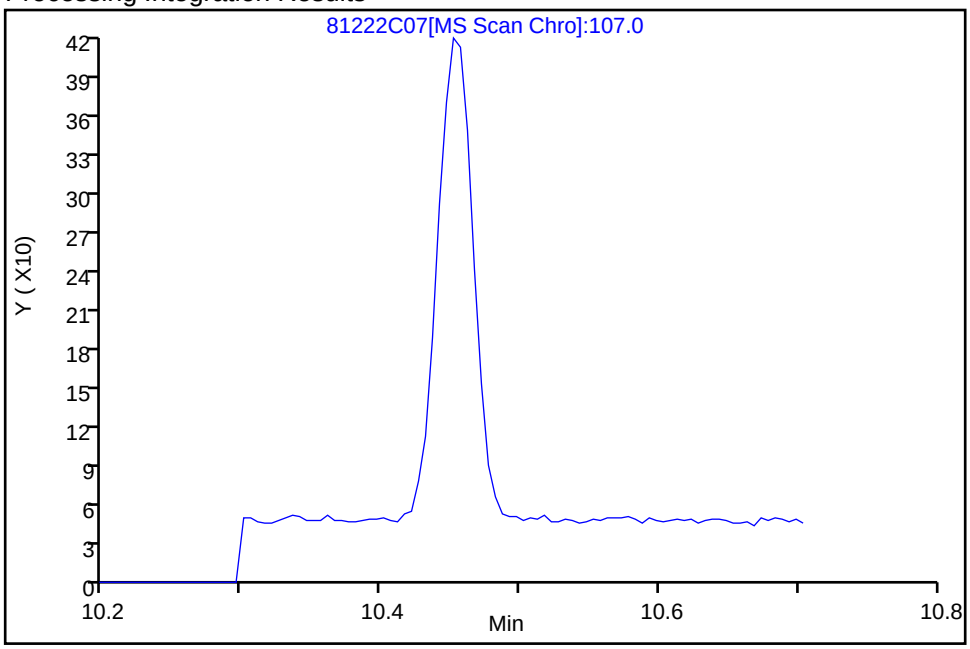
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D		
Injection Date:	23-Dec-2015 01:58:30	Inst. ID:	msd8.i
Client ID:	VSTD0.1SK	Lab ID:	VSTD0.1SK
Sample Info:	8122215C.b, VSTD0.1SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

52 1,2-Dibromoethane, CAS: 106-93-4

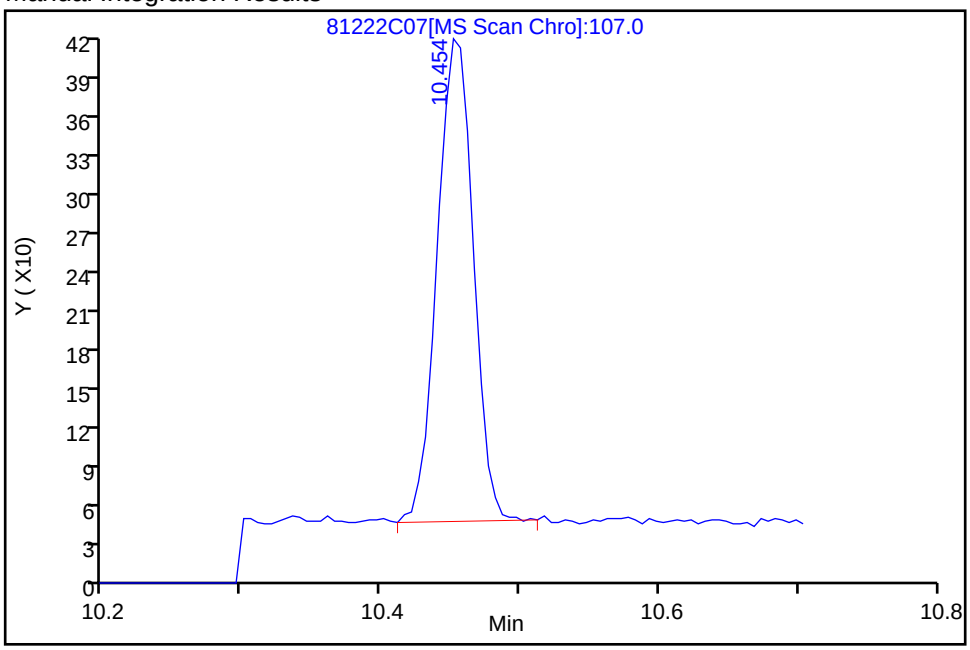
Not Detected
10.454

Processing Integration Results



Manual Integration Results

RT:	10.454
Area:	659
Amount:	0.10088
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:12:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

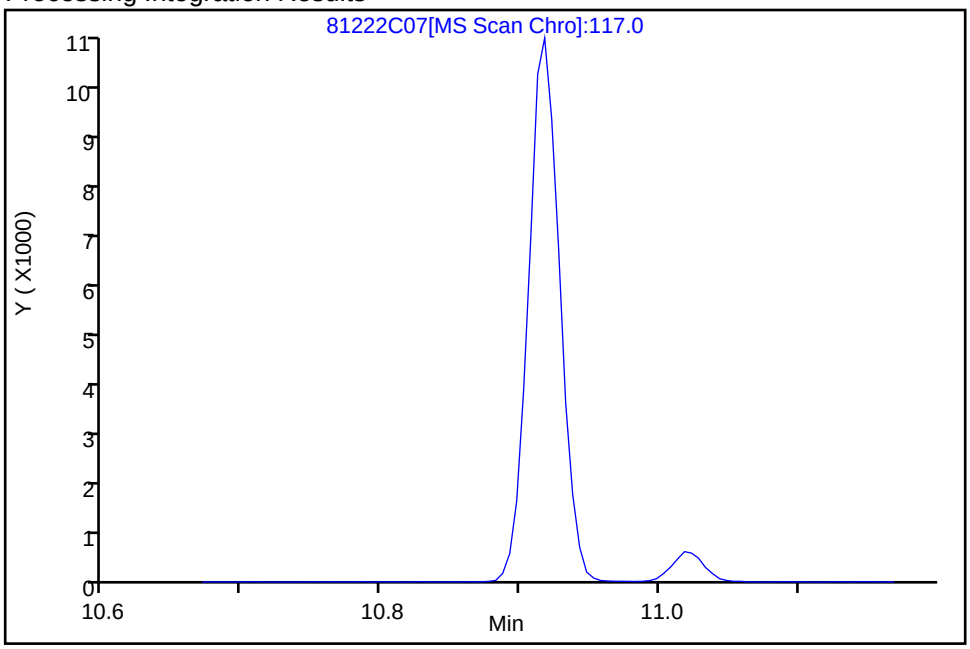
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D		
Injection Date:	23-Dec-2015 01:58:30	Inst. ID:	msd8.i
Client ID:	VSTD0.1SK	Lab ID:	VSTD0.1SK
Sample Info:	8122215C.b, VSTD0.1SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

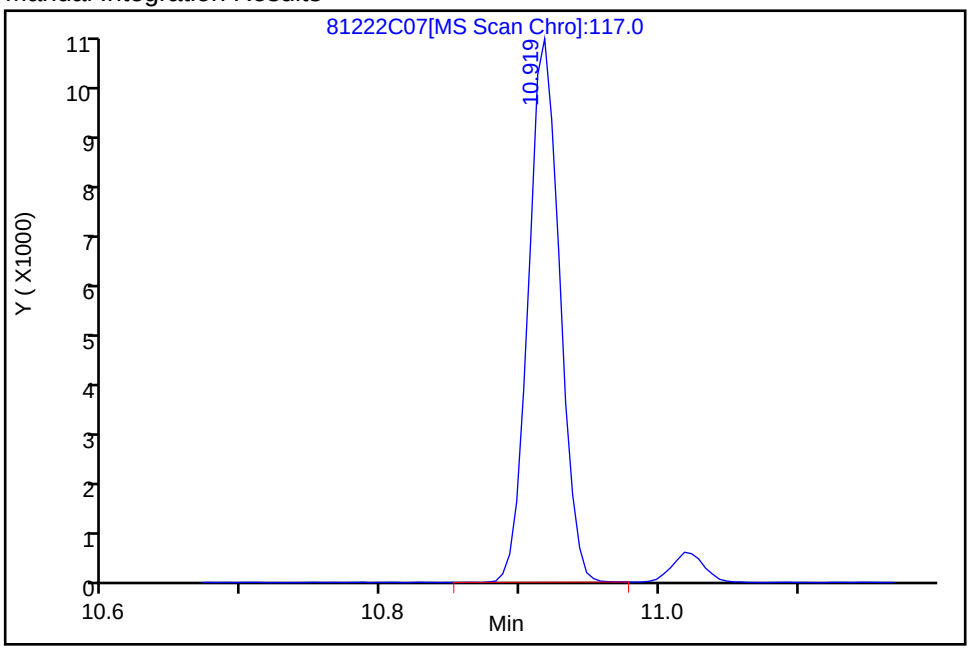
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	16109
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:12:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

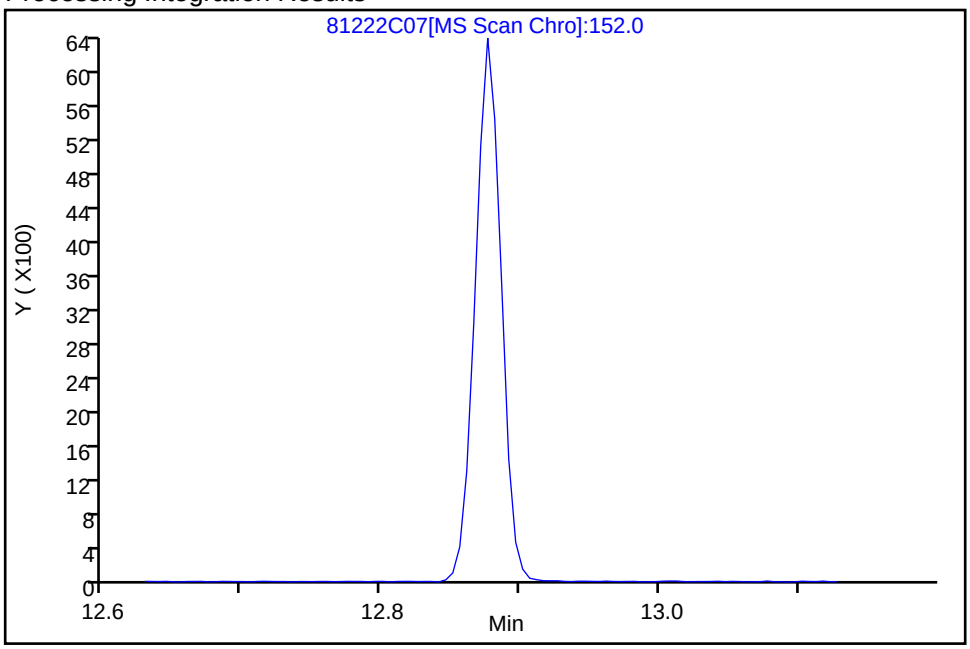
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D		
Injection Date:	23-Dec-2015 01:58:30	Inst. ID:	msd8.i
Client ID:	VSTD0.1SK	Lab ID:	VSTD0.1SK
Sample Info:	8122215C.b, VSTD0.1SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

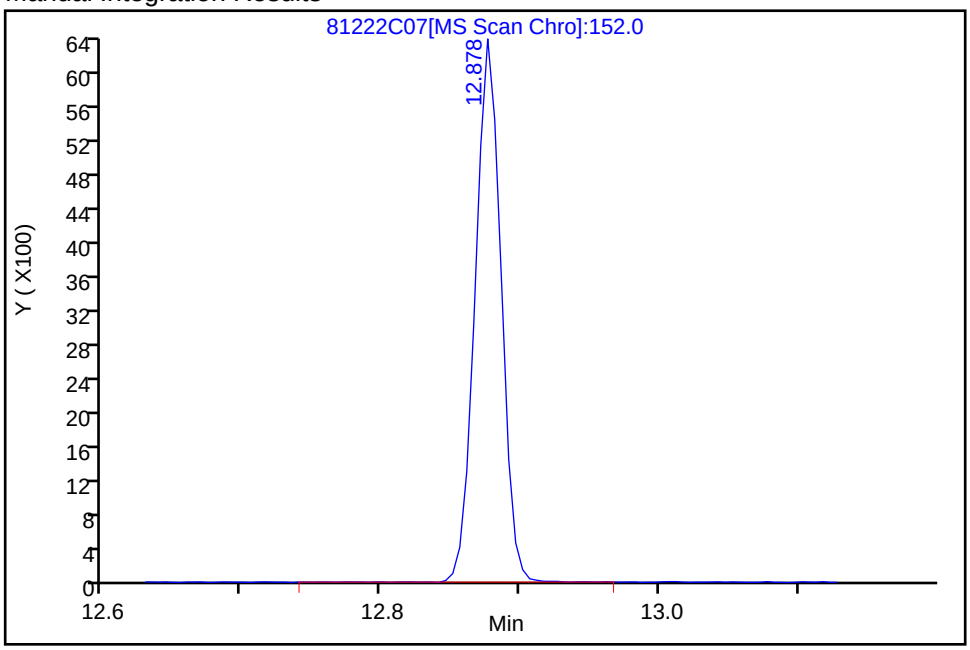
Not Detected
12.878

Processing Integration Results



Manual Integration Results

RT:	12.878
Area:	8079
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:37:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

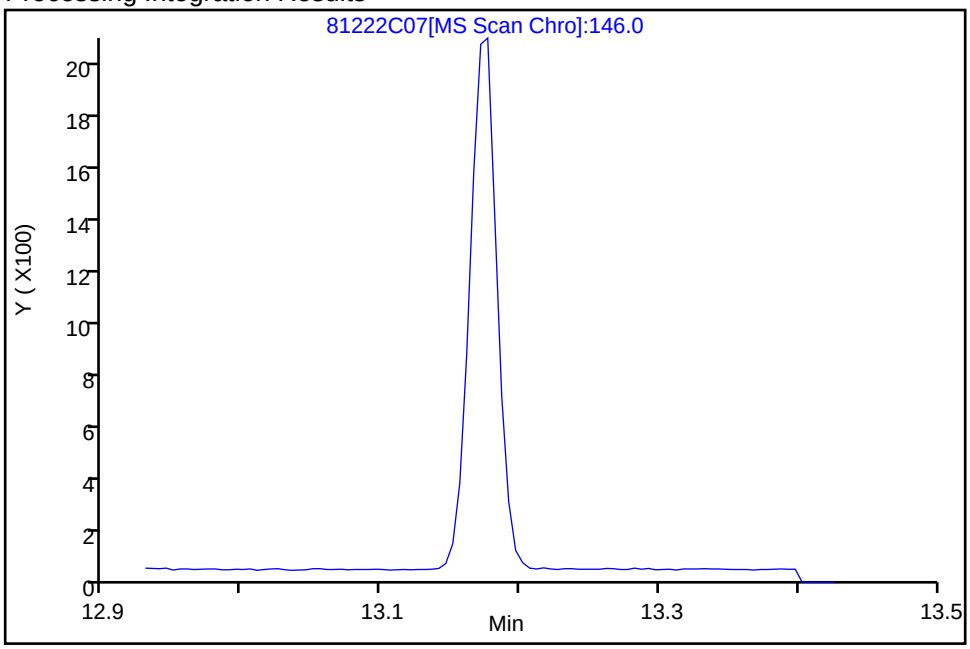
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D		
Injection Date:	23-Dec-2015 01:58:30	Inst. ID:	msd8.i
Client ID:	VSTD0.1SK	Lab ID:	VSTD0.1SK
Sample Info:	8122215C.b, VSTD0.1SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

77 1,4-Dichlorobenzene, CAS: 106-46-7

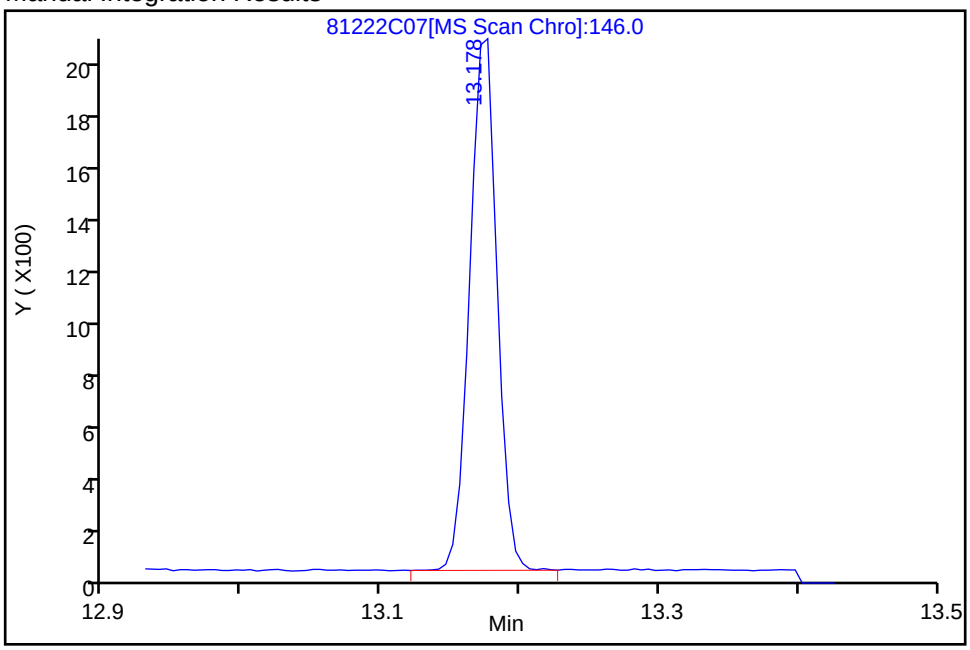
Not Detected
13.178

Processing Integration Results



Manual Integration Results

RT: 13.178
Area: 2668
Amount: 0.10795
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:12:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

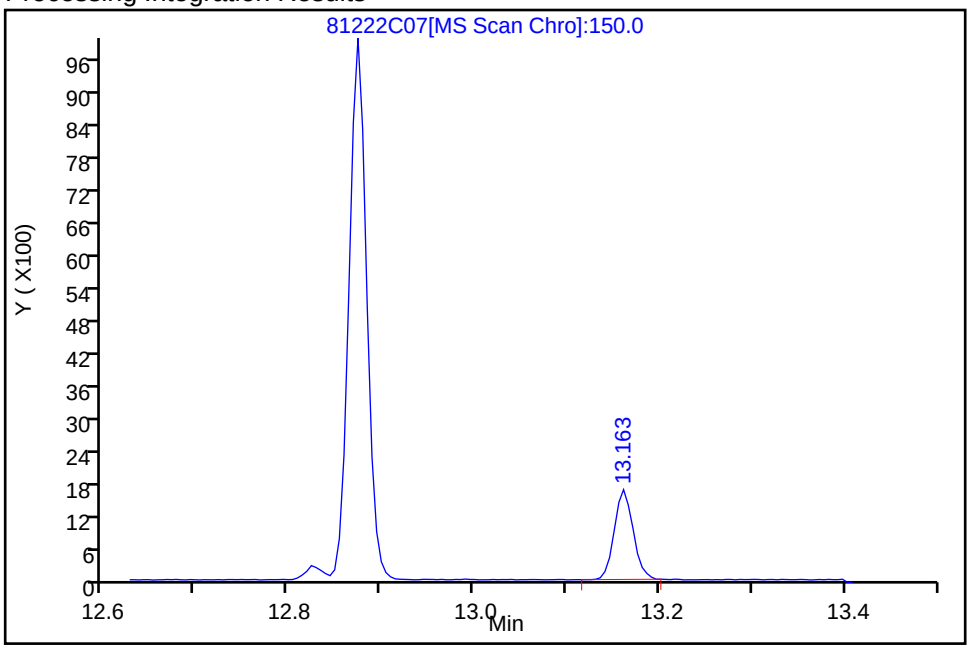
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C07.D		
Injection Date:	23-Dec-2015 01:58:30	Inst. ID:	msd8.i
Client ID:	VSTD0.1SK	Lab ID:	VSTD0.1SK
Sample Info:	8122215C.b, VSTD0.1SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 78 1,2-Dichlorobenzene-d4, CAS: 2199-69-1

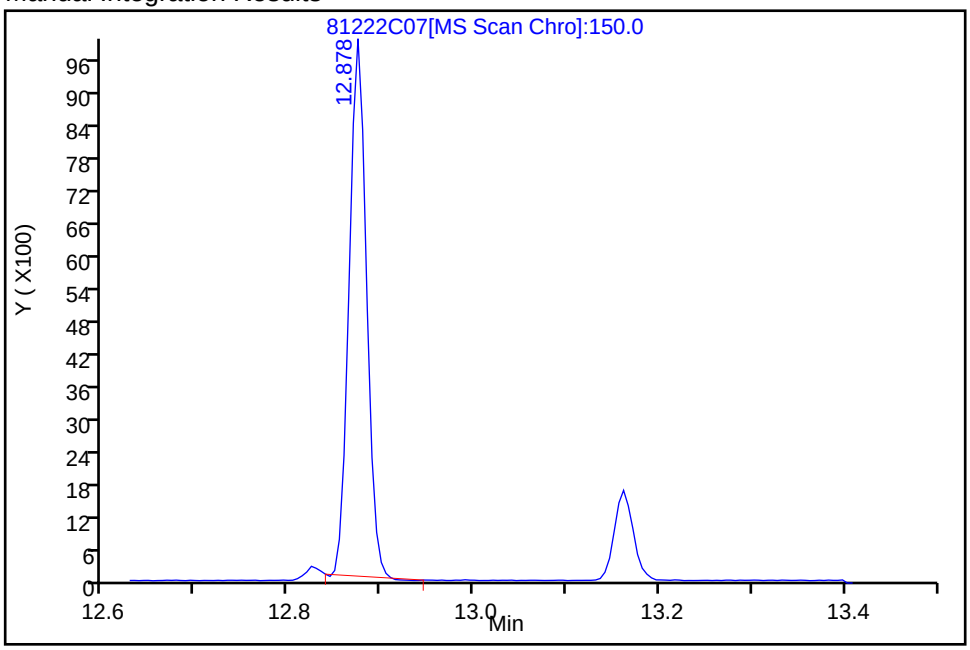
Processing Integration Results

RT: 13.163
Area: 2398
Amount: 0
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 12.878
Area: 12757
Amount: 0.09657
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:41:30
Audit Action: Mint
Audit Reason: IAI

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Lab Sample ID:	VSTD0.05SK	Client Sample ID:	VSTD0.05SK
Injection Date:	23-Dec-2015 02:25:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, VSTD0.05SK		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Ical, Level: 1	ALS Bottle:	8
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 07:40:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 23 Chloroform-d	84.0	6.100	6.100	0.000	1684	0.05000	0.05062	M
24 Chloroform	83.0	6.123	6.123	0.000	10976	0.05000	0.11453	
27 Carbon Tetrachloride	117.0	6.596	6.596	0.000	1088	0.05000	0.04999	
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	523	0.05000	0.04980	M
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	2085	0.05000	0.05023	M
31 Benzene	78.0	6.865	6.865	0.000	2575	0.05000	0.05282	
32 1,2-Dichloroethane	62.0	6.882	6.882	0.000	789	0.05000	0.05058	M
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	20654	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.895	7.895	0.000	650	0.05000	0.04979	M
37 1,2-Dichloropropane	63.0	8.020	8.020	0.000	785	0.05000	0.05328	
39 Bromodichloromethane	83.0	8.384	8.384	0.000	756	0.05000	0.04935	
40 cis-1,3-Dichloropropene	75.0	8.996	8.996	0.000	747	0.05000	0.05515	M
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	425	0.05000	0.04553	M
46 1,1,2-Trichloroethane	97.0	9.911	9.911	0.000	335	0.05000	0.05141	M
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	489	0.50000	0.47647	M
50 2-Hexanone	43.0	10.179	10.179	0.000	263	0.50000	0.44950	M
52 1,2-Dibromoethane	107.0	10.459	10.459	0.000	305	0.05000	0.04883	M
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	15404	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	289	0.05000	0.05112	M
64 1,1,2,2-Tetrachloroethane	83.0	12.074	12.074	0.000	268	0.05000	0.04613	
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	7881	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0	13.173	13.173	0.000	1118	0.05000	0.04637	M
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	678	0.05000	0.05001	M
80 1,2-Dibromo-3-chloropropane	75.0	13.722	13.722	0.000	55	0.05000	0.06311	
82 1,2,4-Trichlorobenzene	180.0	14.302	14.302	0.000	859	0.05000	0.05190	M
84 1,2,3-Trichlorobenzene	180.0	14.668	14.668	0.000	635	0.05000	0.04805	M

QC Flag Legend

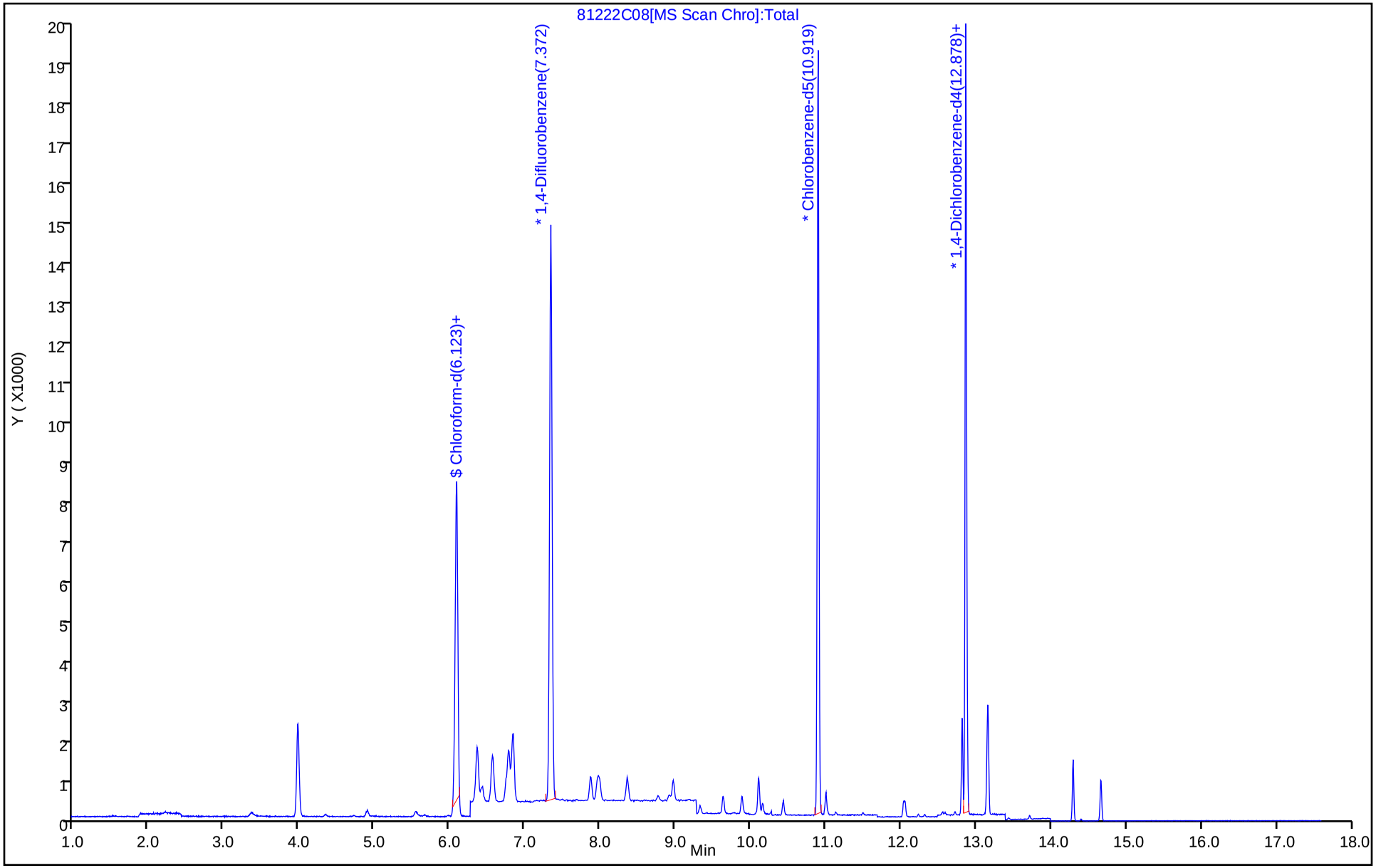
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D				
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK		
Sample Info:	8122215C.b, VSTD0.05SK				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

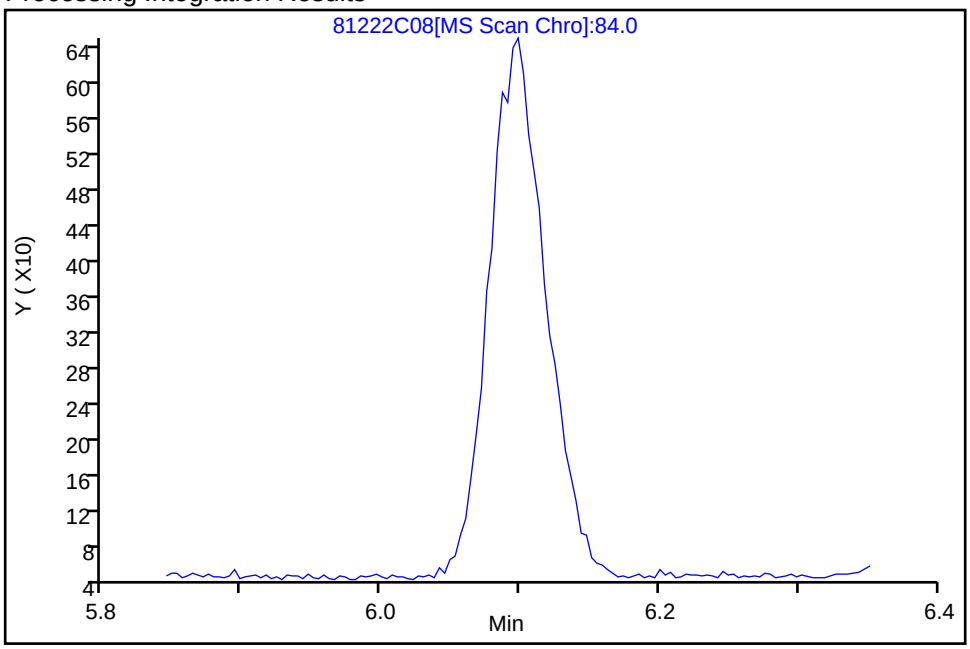
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 23 Chloroform-d, CAS: 865-49-6

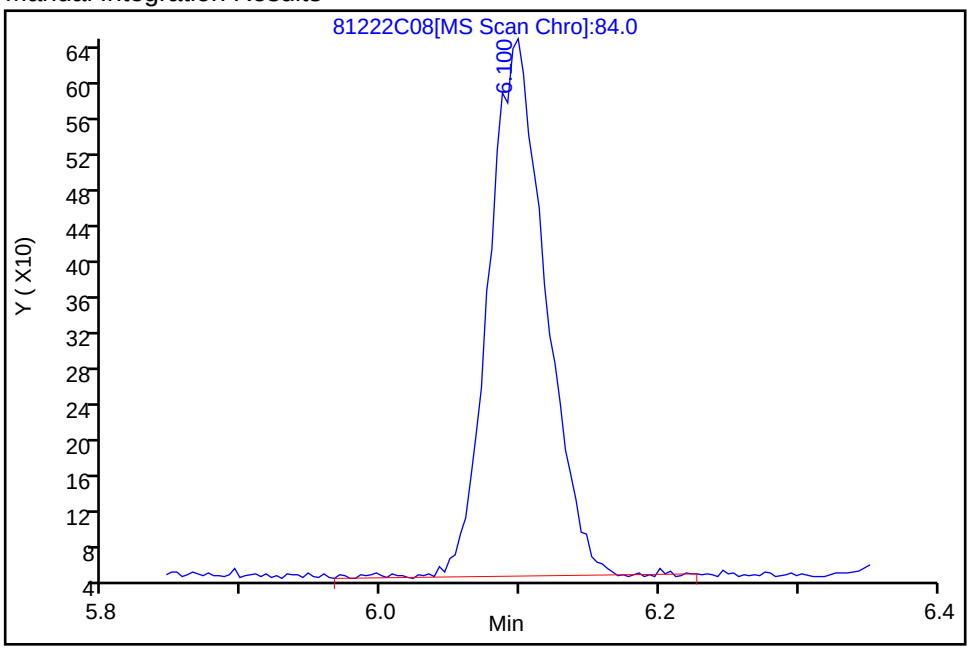
Not Detected
6.100

Processing Integration Results



Manual Integration Results

RT:	6.100
Area:	1684
Amount:	0.05062
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:13:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

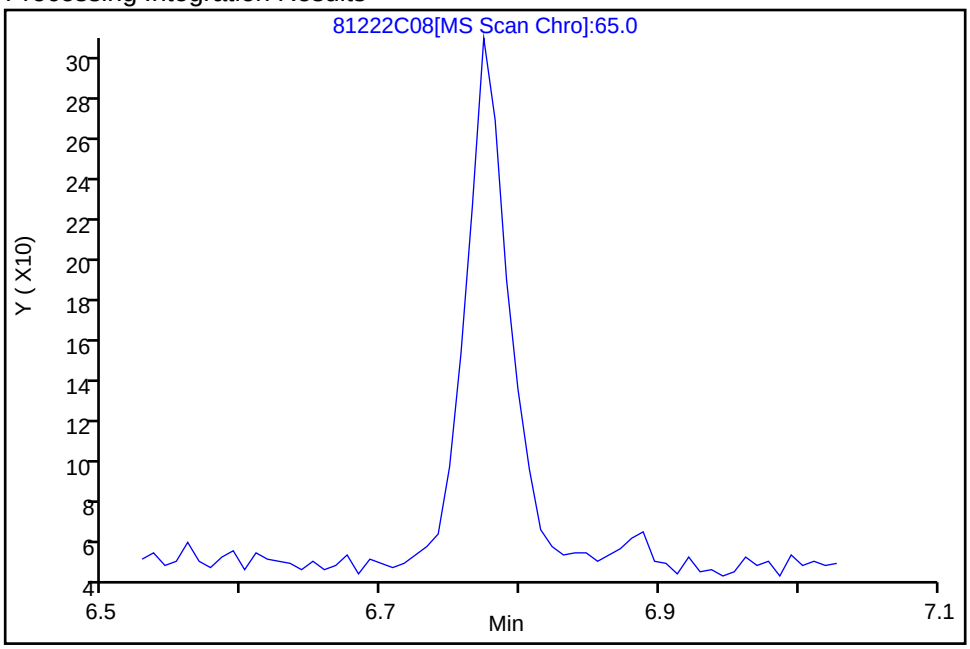
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 29 1,2-Dichloroethane-d4, CAS: 17060-07-0

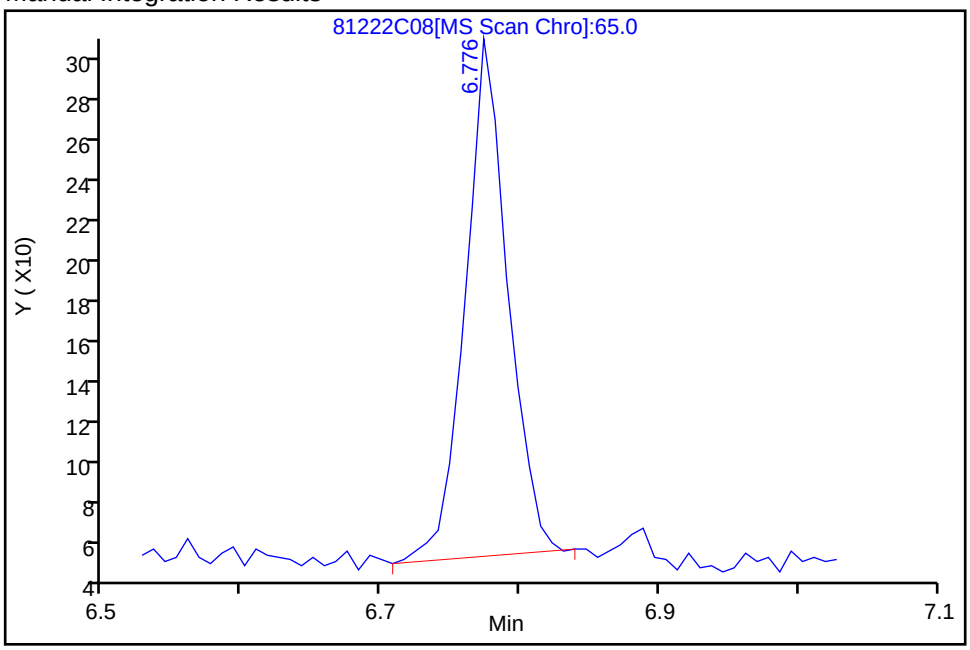
Not Detected
6.776

Processing Integration Results



Manual Integration Results

RT:	6.776
Area:	523
Amount:	0.04980
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:13:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

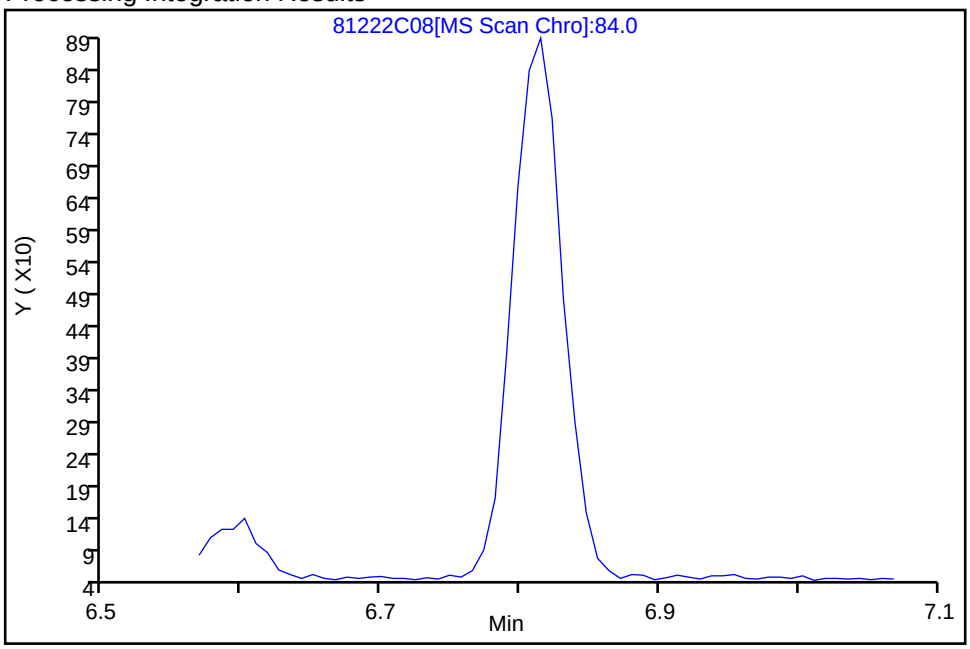
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 30 Benzene-d6, CAS: 1076-43-3

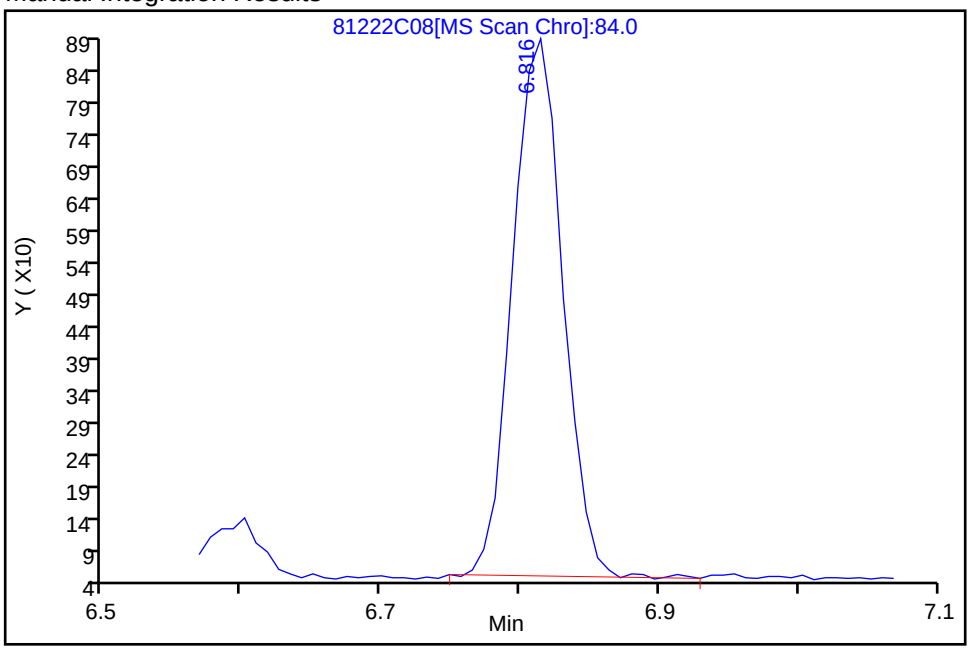
Processing Integration Results

Not Detected
6.816



Manual Integration Results

RT: 6.816
Area: 2085
Amount: 0.05023
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:13:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

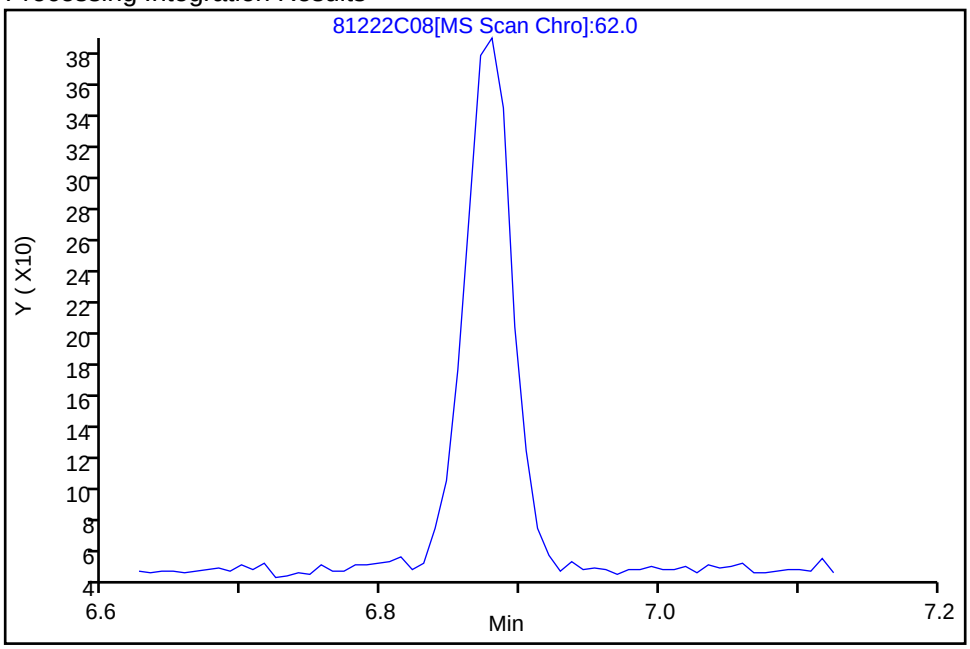
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

32 1,2-Dichloroethane, CAS: 107-06-2

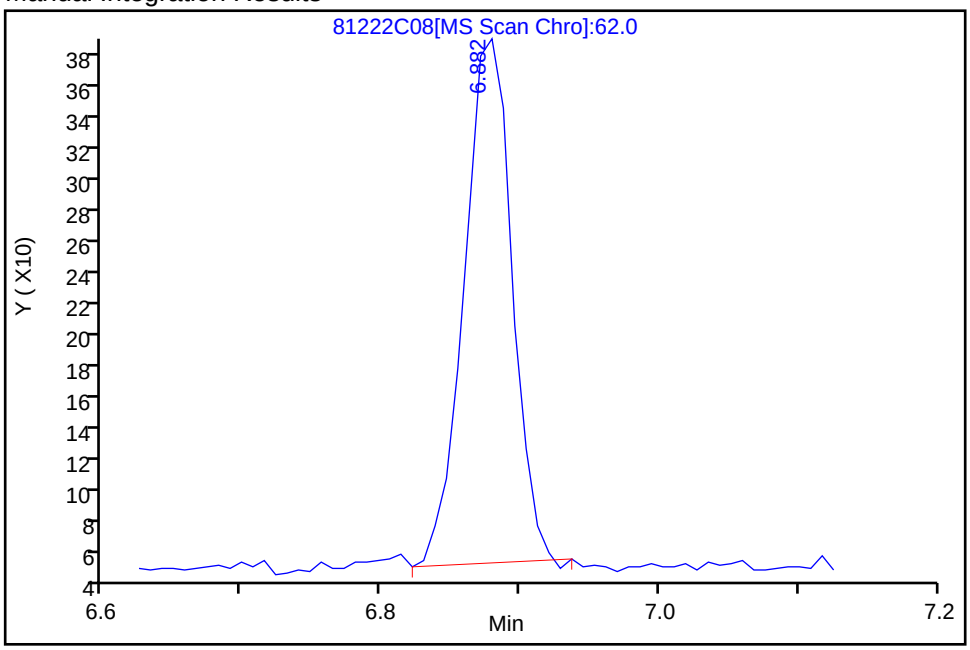
Not Detected
6.882

Processing Integration Results



Manual Integration Results

RT:	6.882
Area:	789
Amount:	0.05058
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:13:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

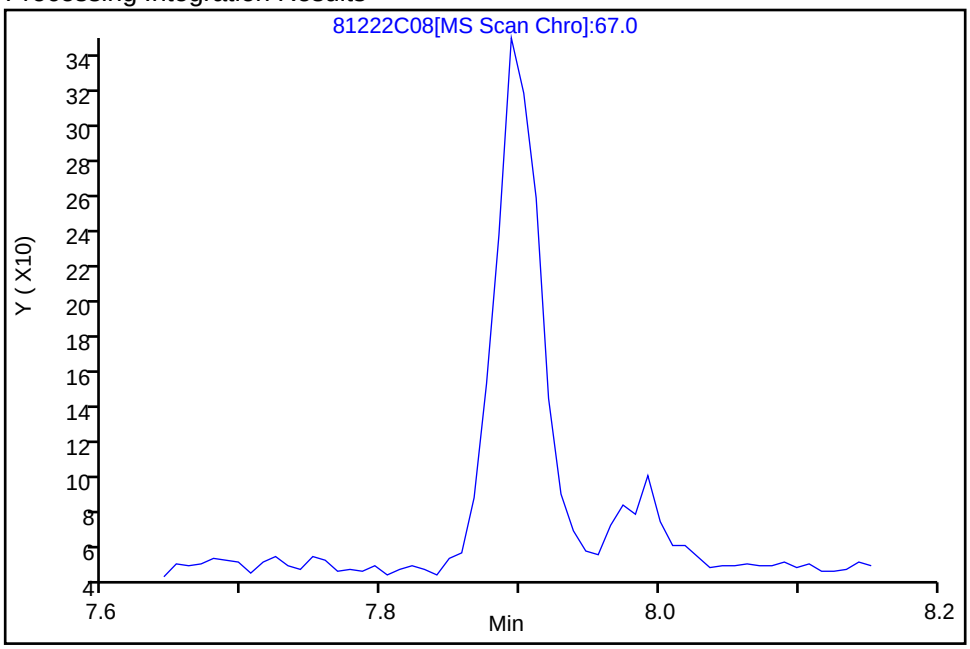
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

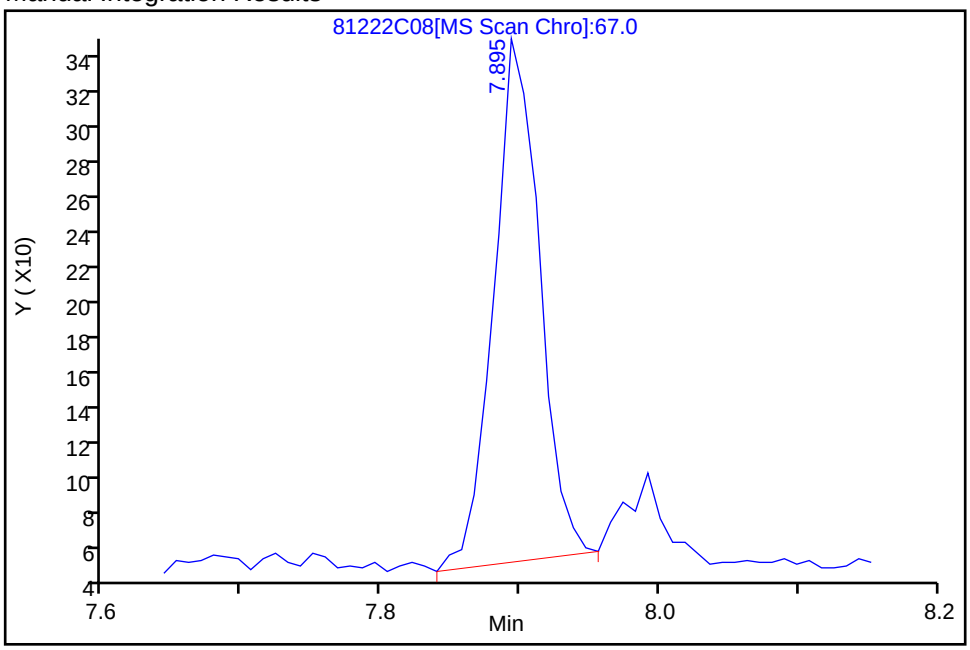
Not Detected
7.895

Processing Integration Results



Manual Integration Results

RT:	7.895
Area:	650
Amount:	0.04979
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:13:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

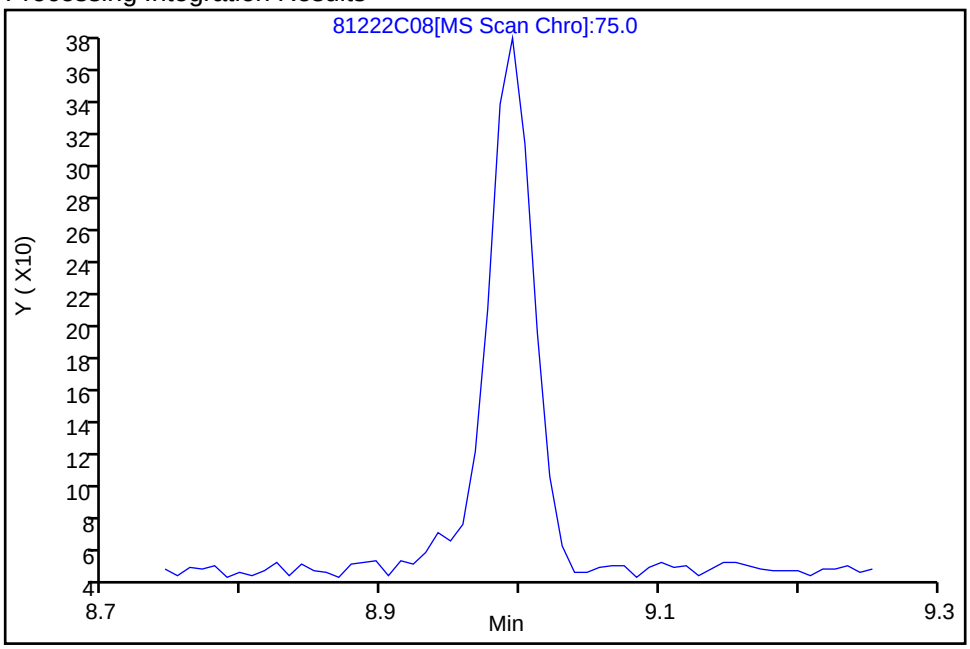
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

40 cis-1,3-Dichloropropene, CAS: 10061-01-5

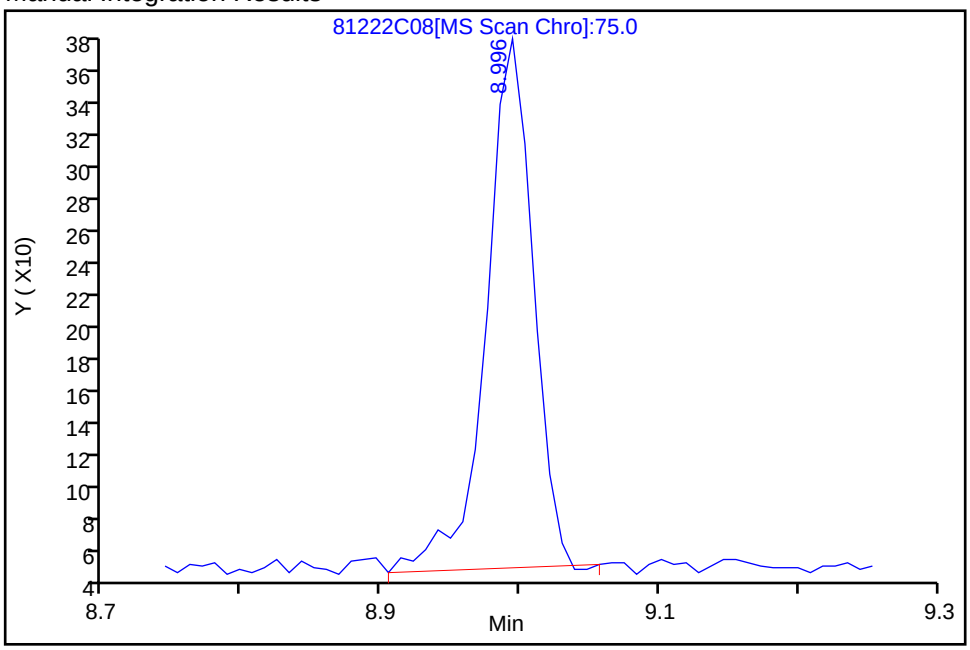
Not Detected
8.996

Processing Integration Results



Manual Integration Results

RT:	8.996
Area:	747
Amount:	0.05515
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:13:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

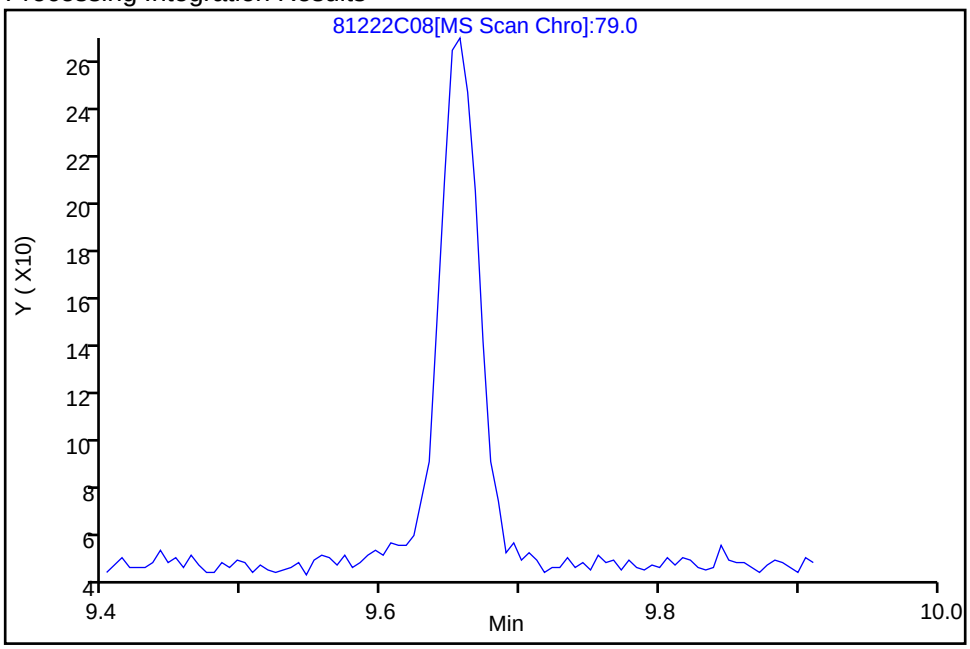
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 44 trans-1,3-Dichloropropene-d4, CAS: 93951-86-1

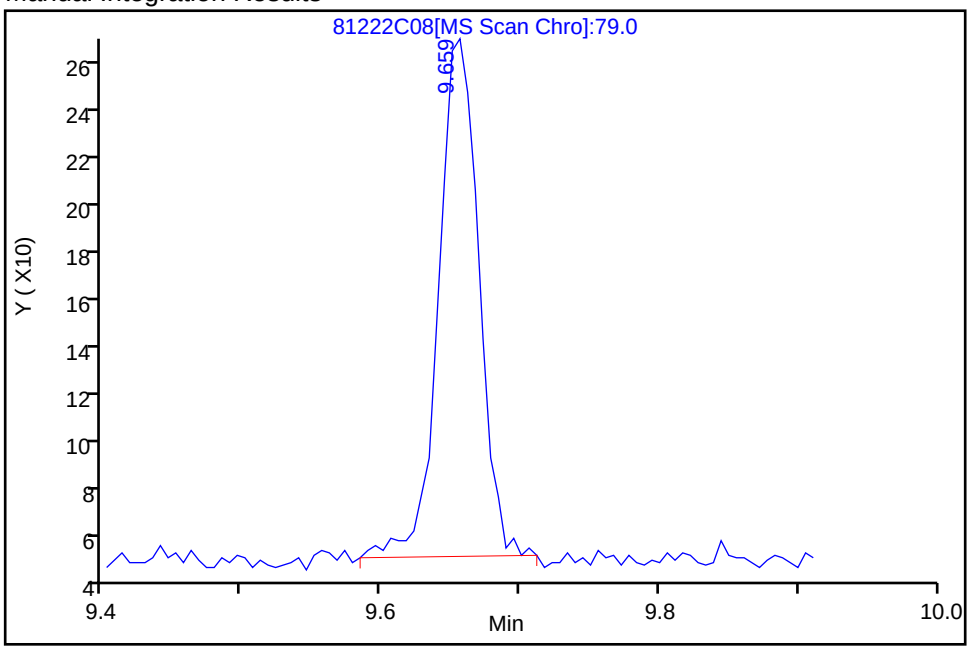
Not Detected
9.659

Processing Integration Results



Manual Integration Results

RT:	9.659
Area:	425
Amount:	0.04553
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:13:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

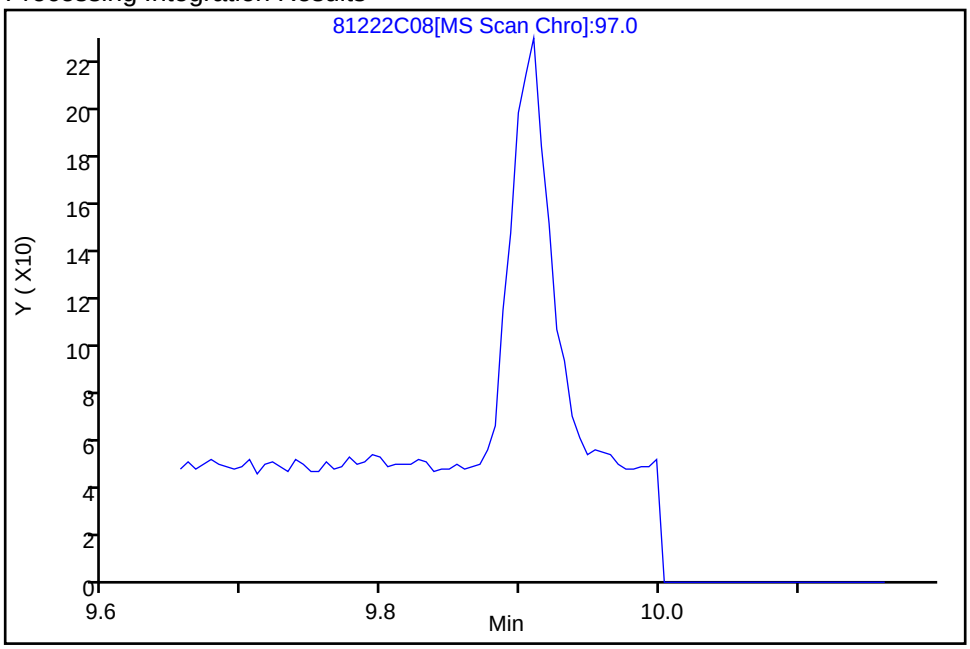
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

46 1,1,2-Trichloroethane, CAS: 79-00-5

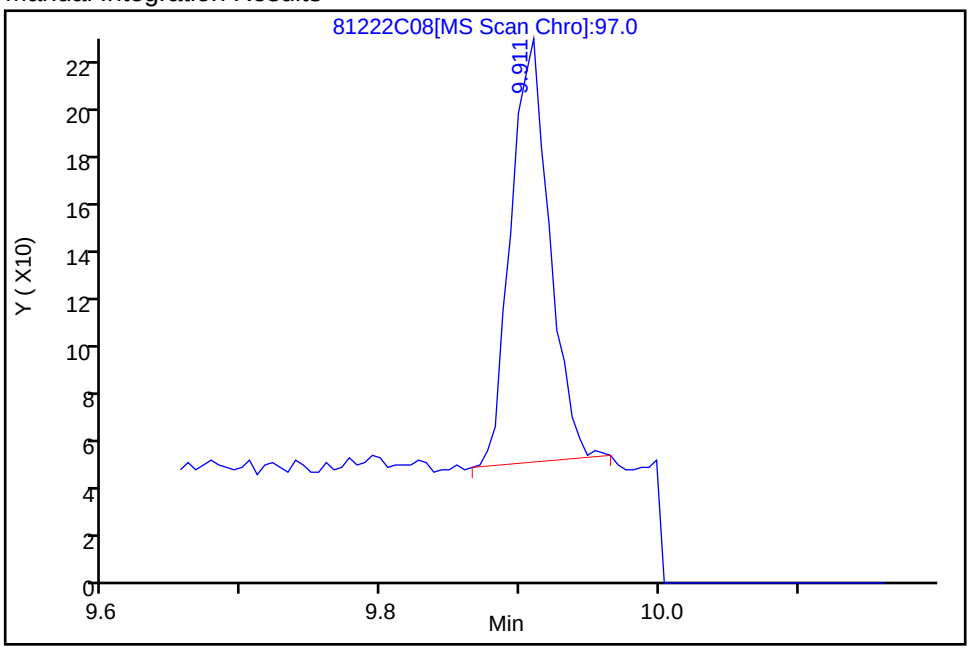
Not Detected
9.911

Processing Integration Results



Manual Integration Results

RT:	9.911
Area:	335
Amount:	0.05141
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:13:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

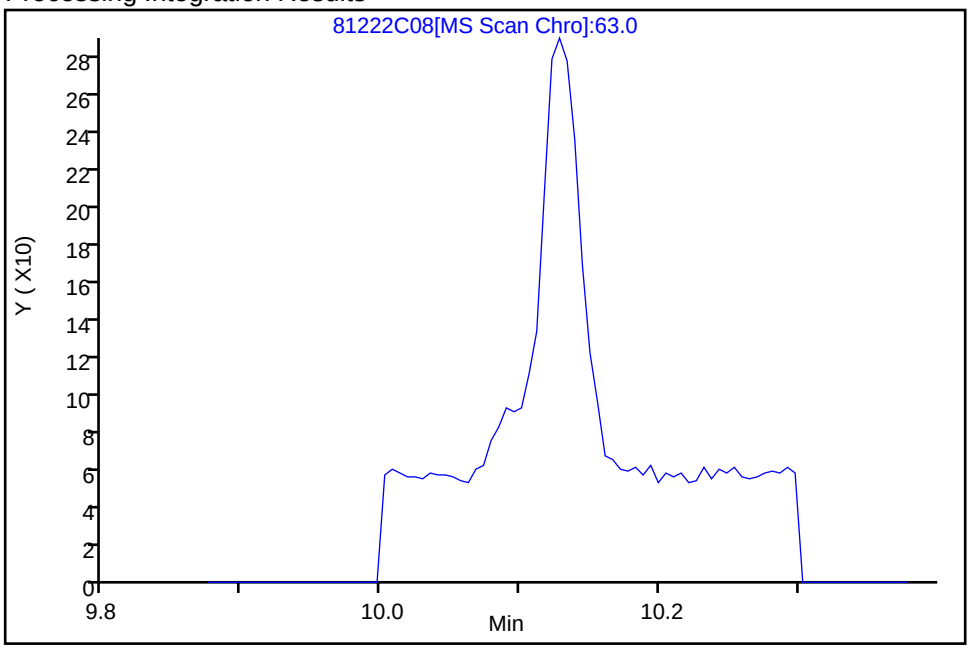
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 49 2-Hexanone-d5, CAS: 4840-82-8

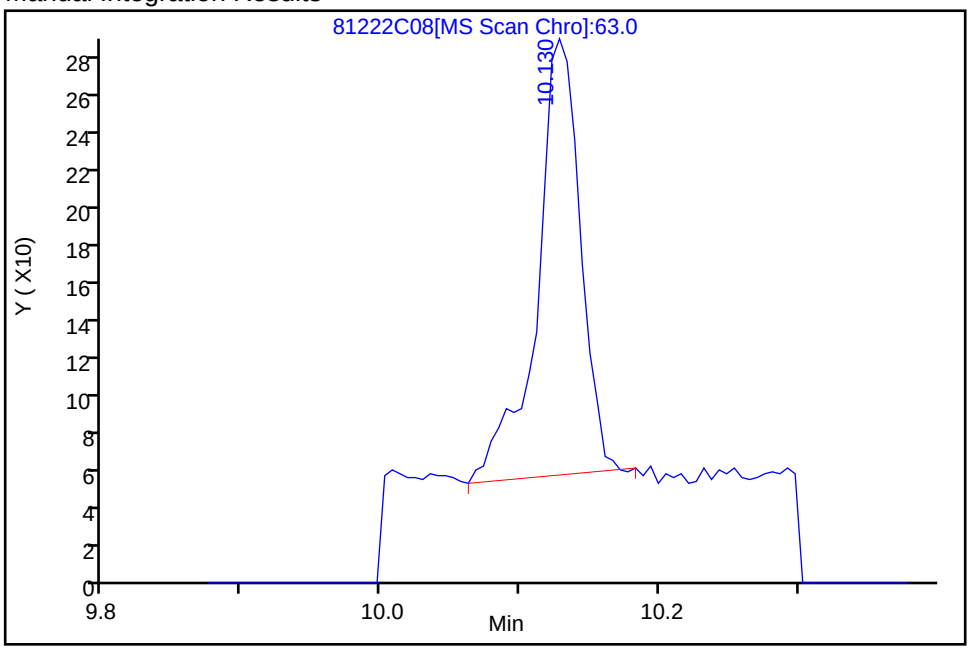
Not Detected
10.130

Processing Integration Results



Manual Integration Results

RT:	10.130
Area:	489
Amount:	0.47647
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:13:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

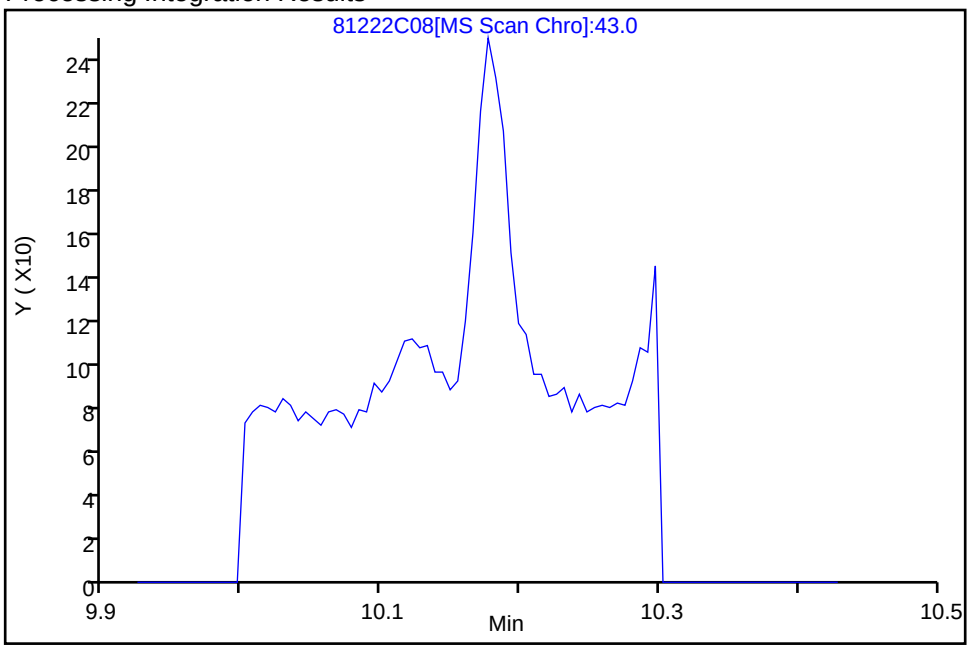
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

50 2-Hexanone, CAS: 591-78-6

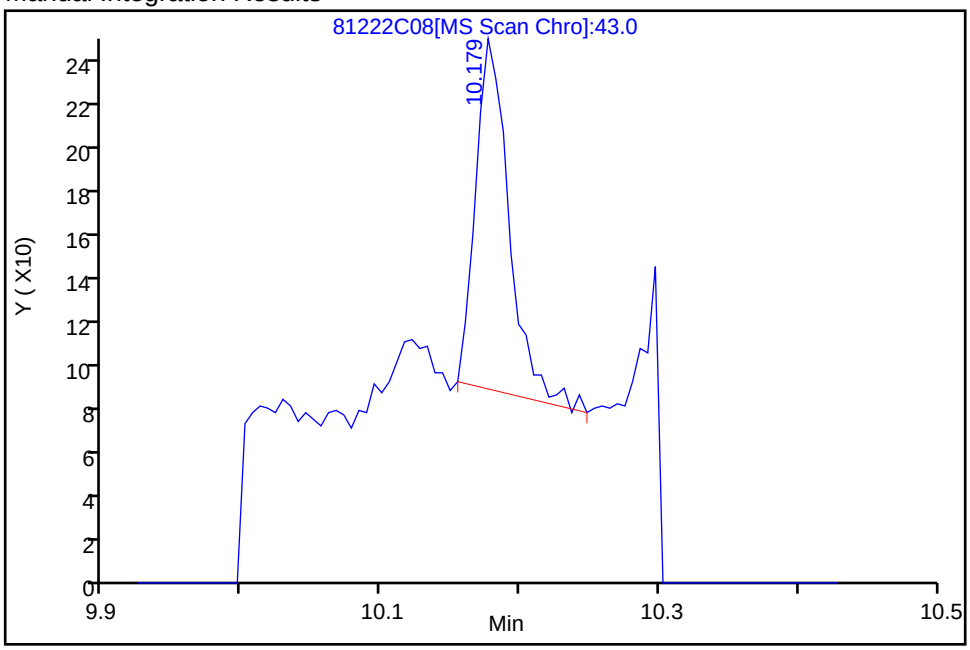
Not Detected
10.179

Processing Integration Results



Manual Integration Results

RT:	10.179
Area:	263
Amount:	0.44950
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:13:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

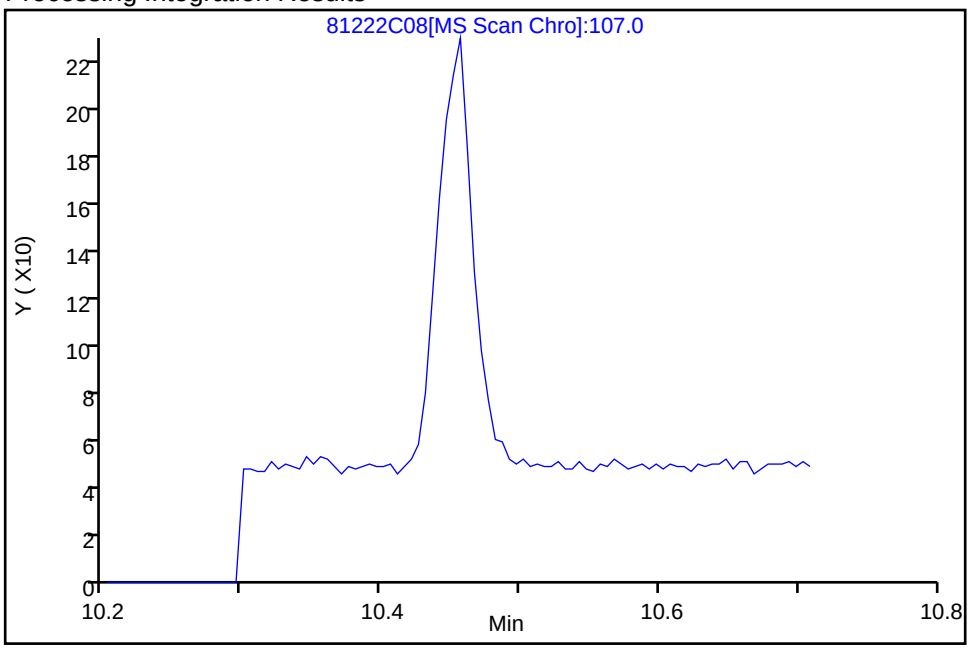
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

52 1,2-Dibromoethane, CAS: 106-93-4

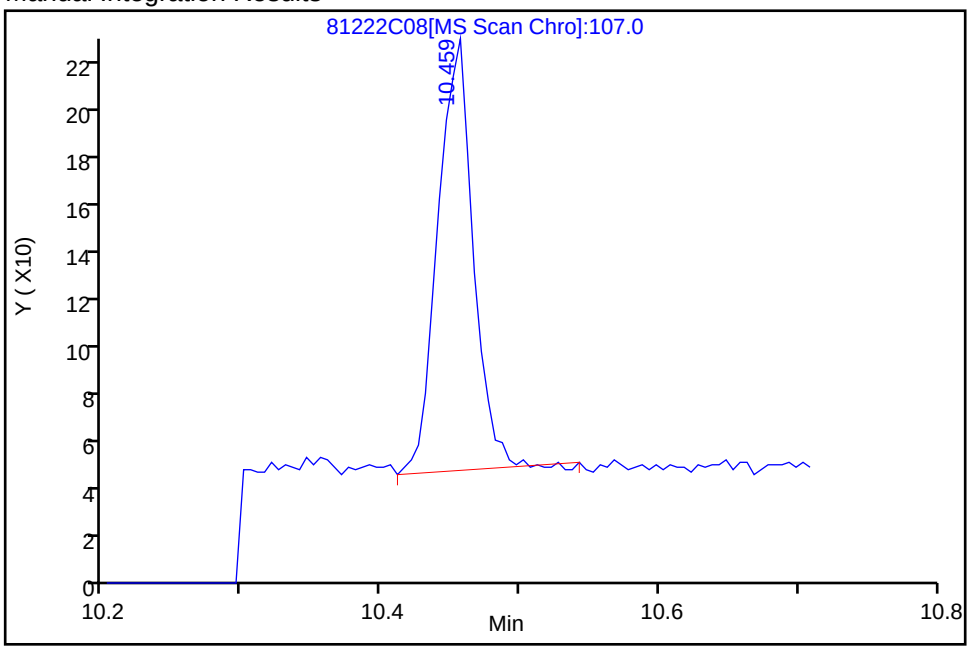
Not Detected
10.459

Processing Integration Results



Manual Integration Results

RT:	10.459
Area:	305
Amount:	0.04883
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:14:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

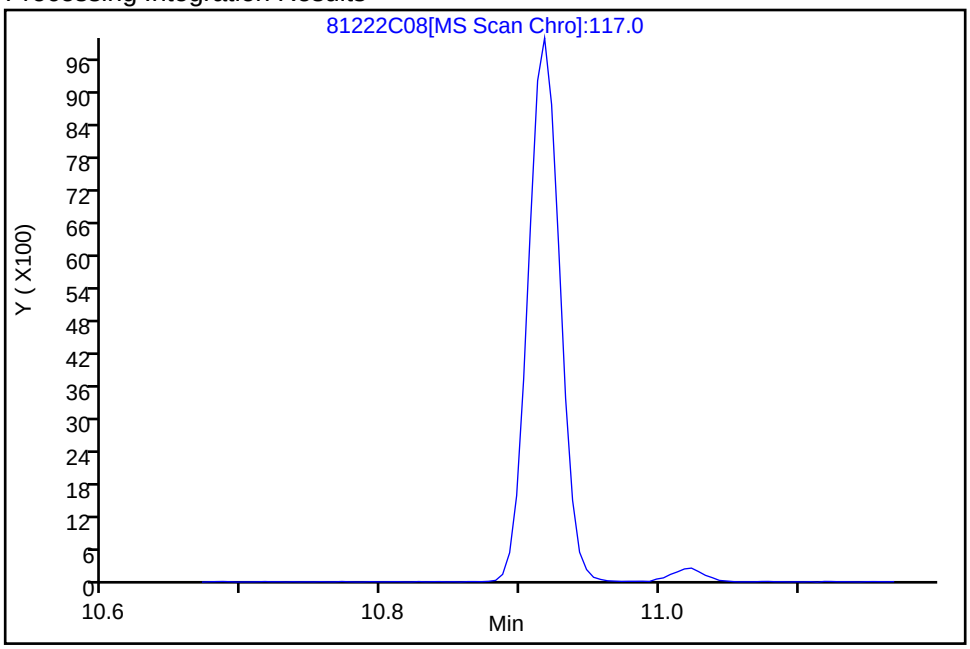
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

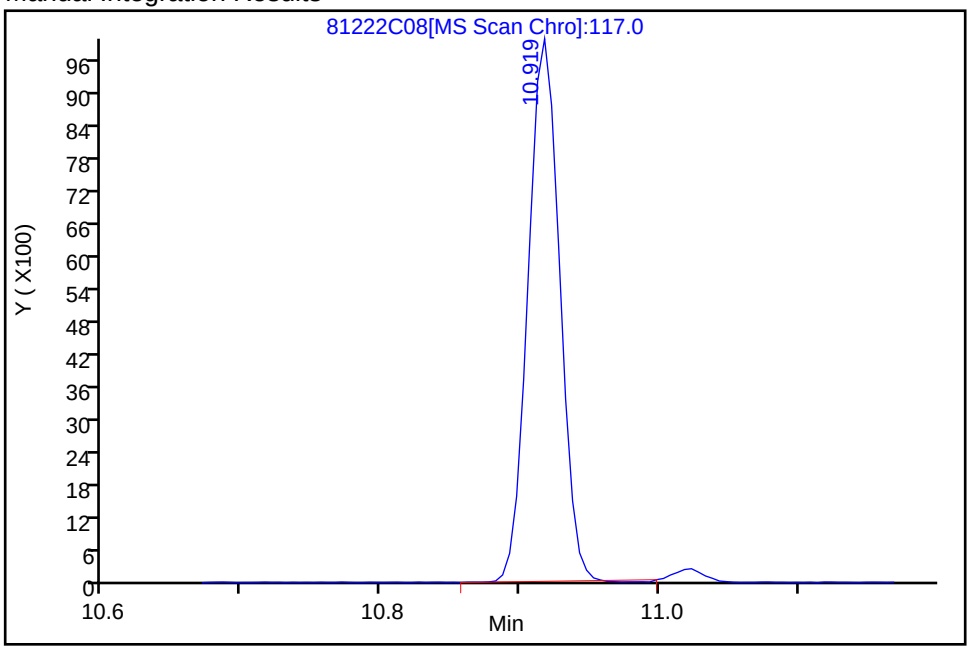
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	15404
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:14:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

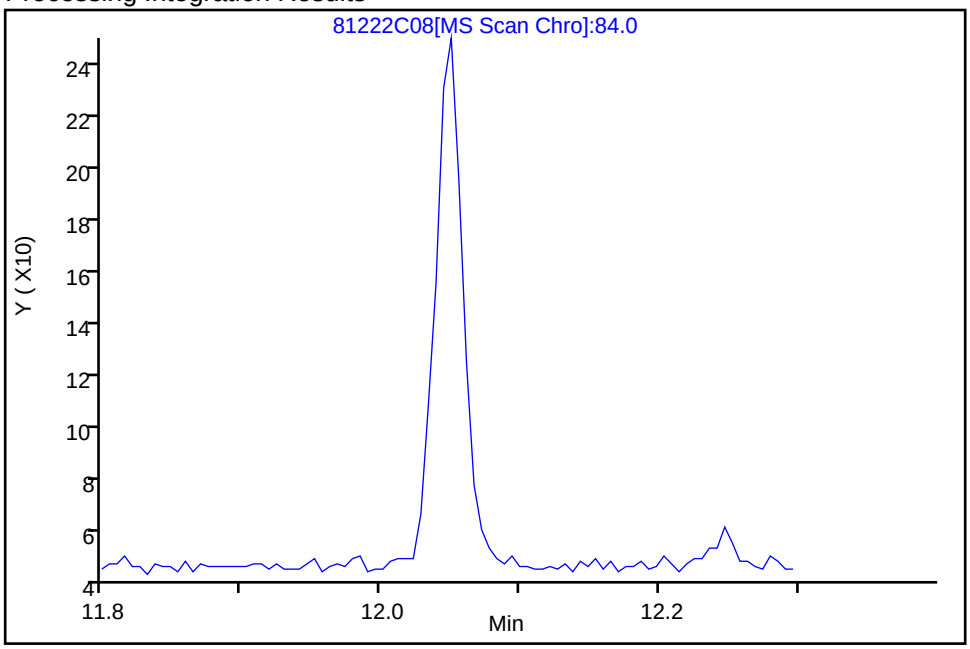
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 63 1,1,2,2-Tetrachloroethane-d2, CAS: 33685-54-0

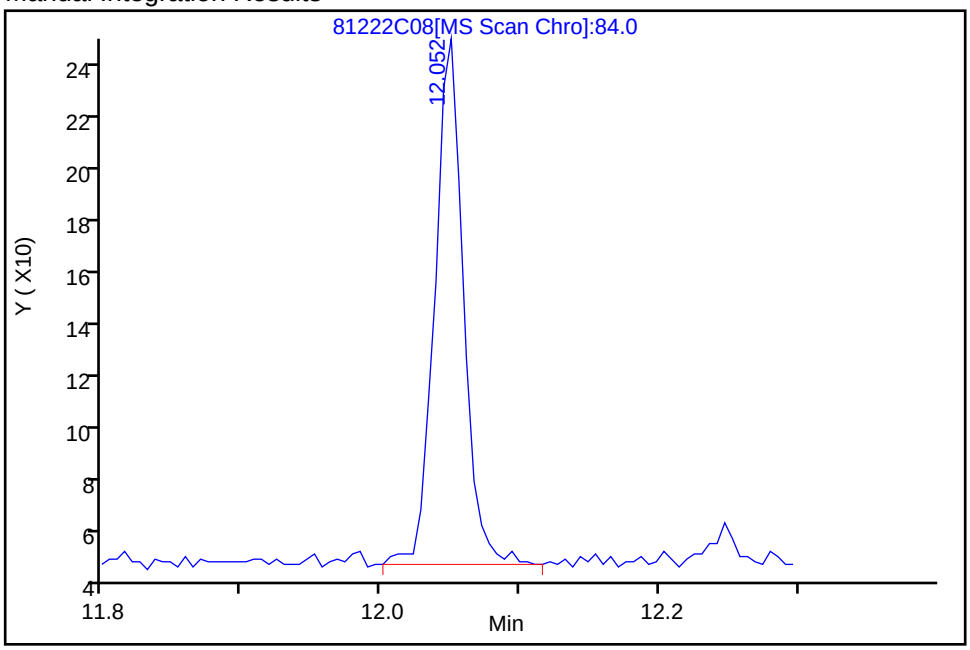
Not Detected
12.052

Processing Integration Results



Manual Integration Results

RT:	12.052
Area:	289
Amount:	0.05112
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:14:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

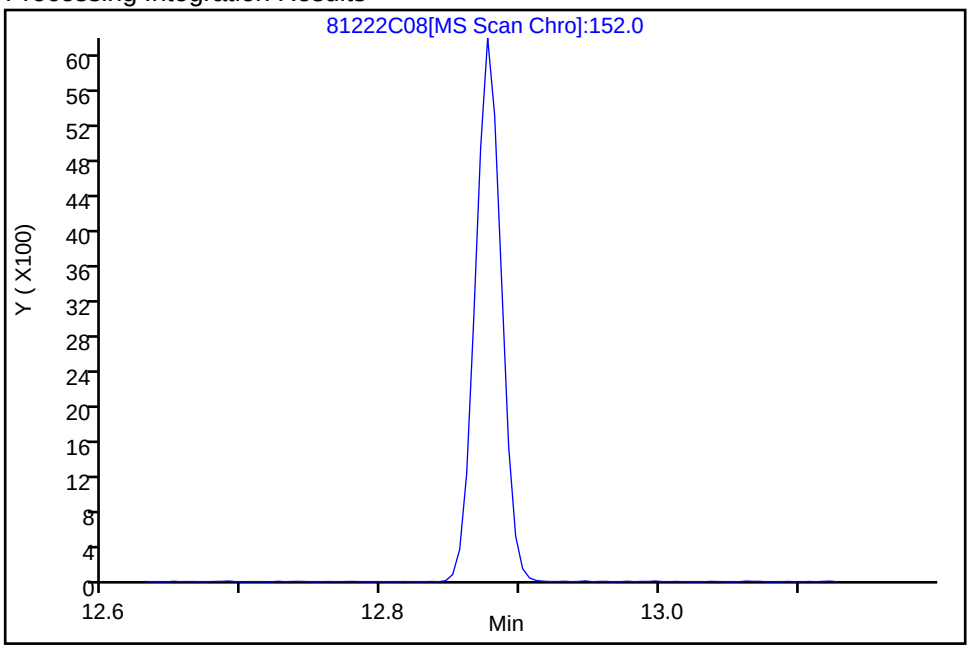
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

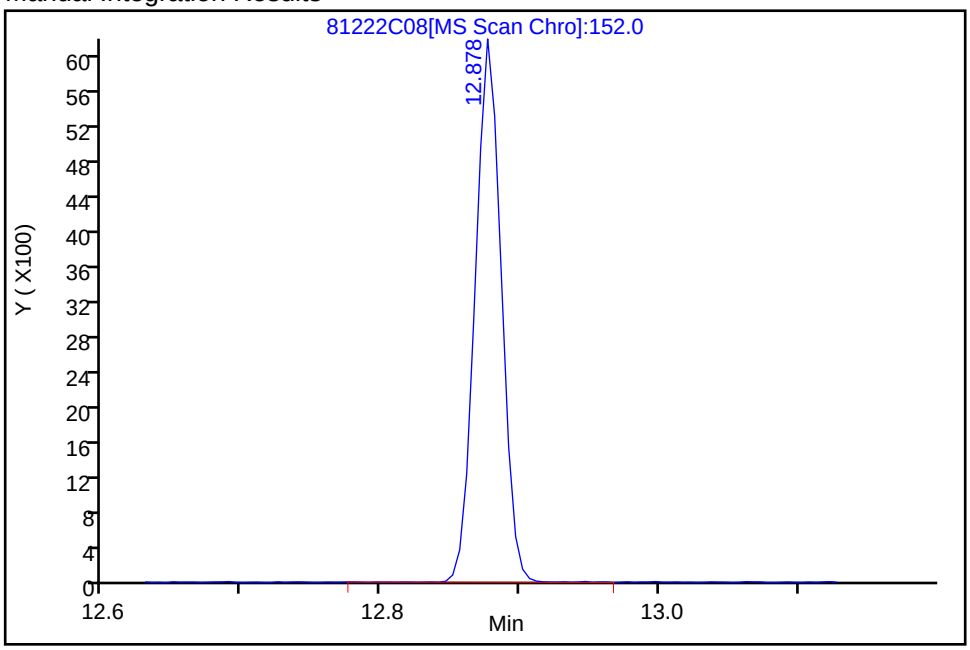
Processing Integration Results

Not Detected
12.878



Manual Integration Results

RT:	12.878
Area:	7881
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:38:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

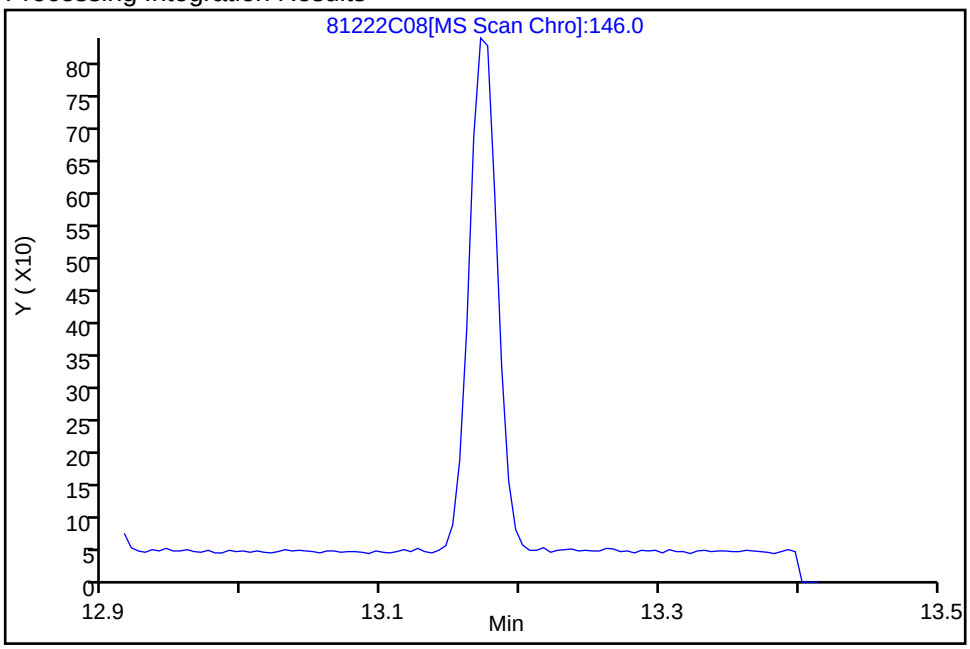
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

77 1,4-Dichlorobenzene, CAS: 106-46-7

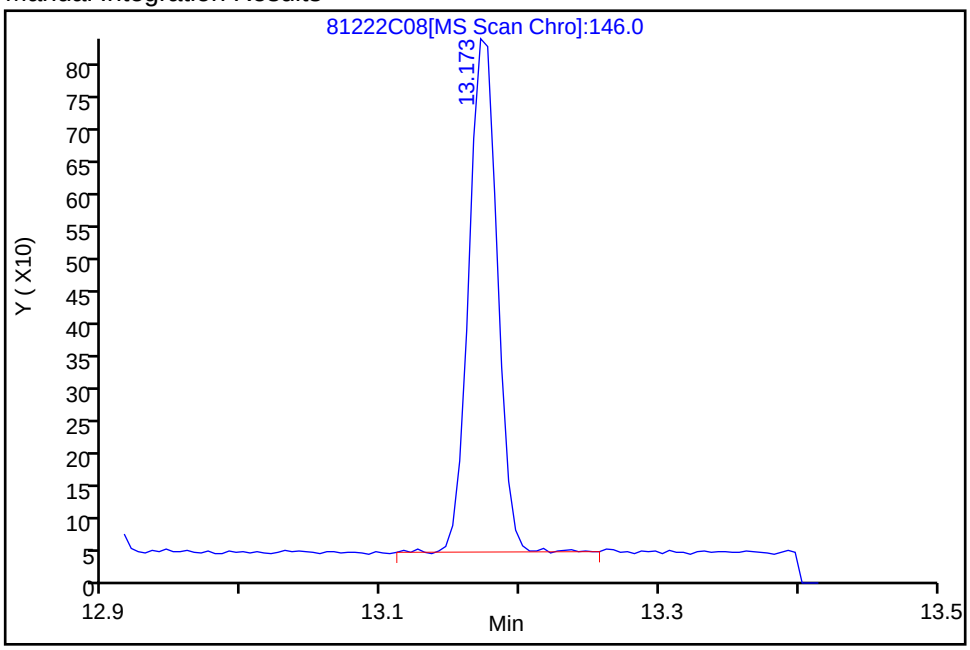
Not Detected
13.173

Processing Integration Results



Manual Integration Results

RT:	13.173
Area:	1118
Amount:	0.04637
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:14:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

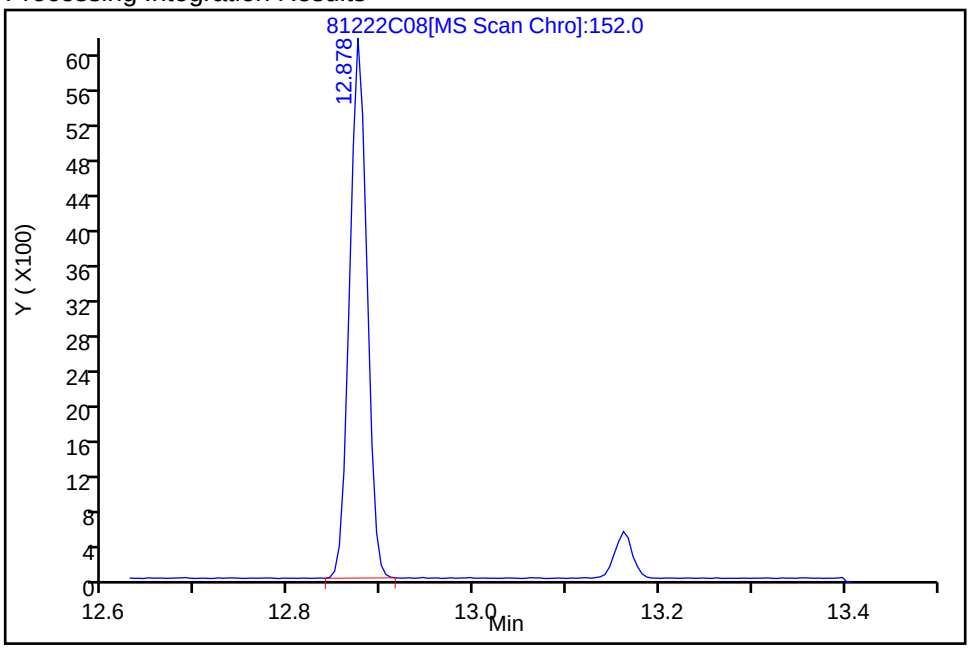
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 78 1,2-Dichlorobenzene-d4, CAS: 2199-69-1

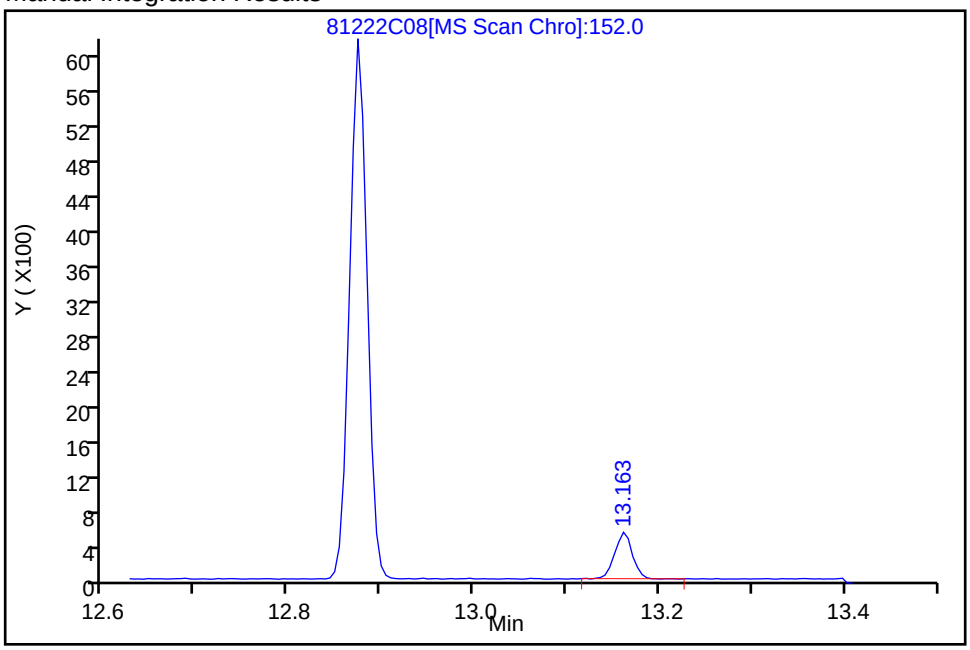
Processing Integration Results

RT: 12.878
Area: 8157
Amount: 0
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 13.163
Area: 678
Amount: 0.05001
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:40:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

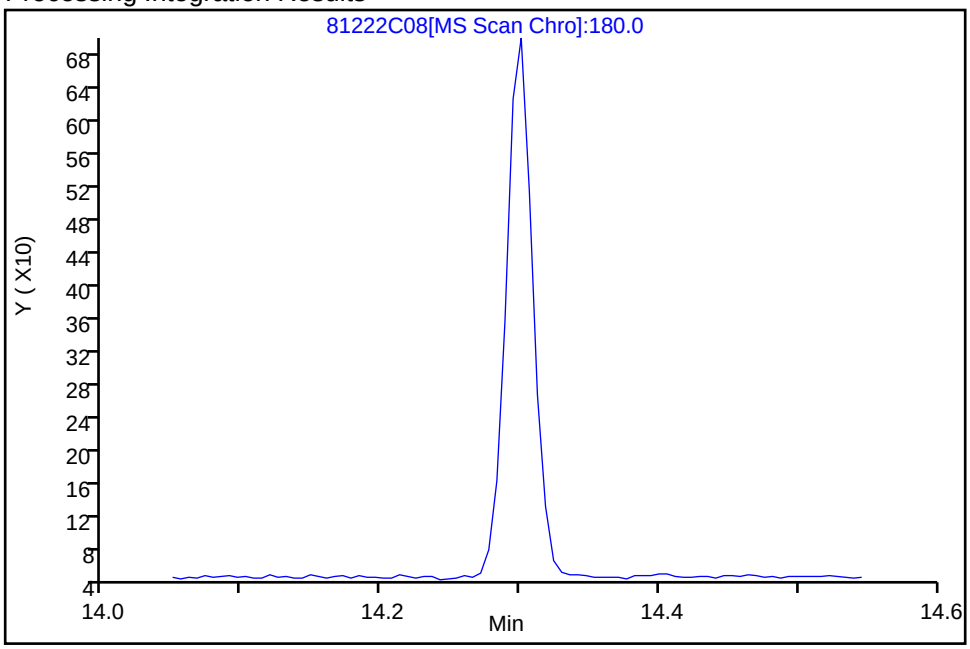
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

82 1,2,4-Trichlorobenzene, CAS: 120-82-1

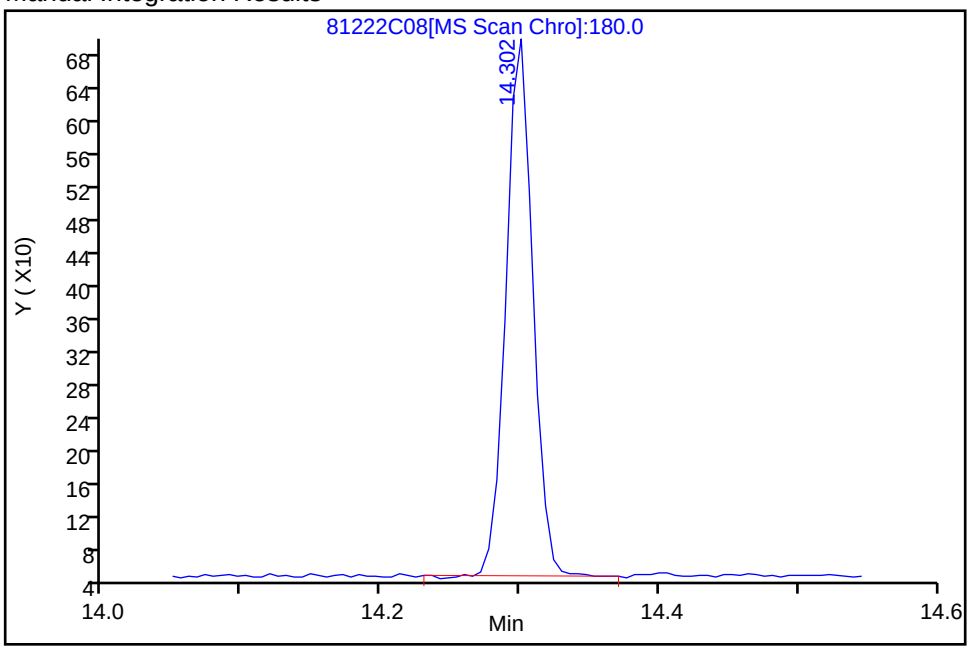
Not Detected
14.302

Processing Integration Results



Manual Integration Results

RT:	14.302
Area:	859
Amount:	0.05190
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:44:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

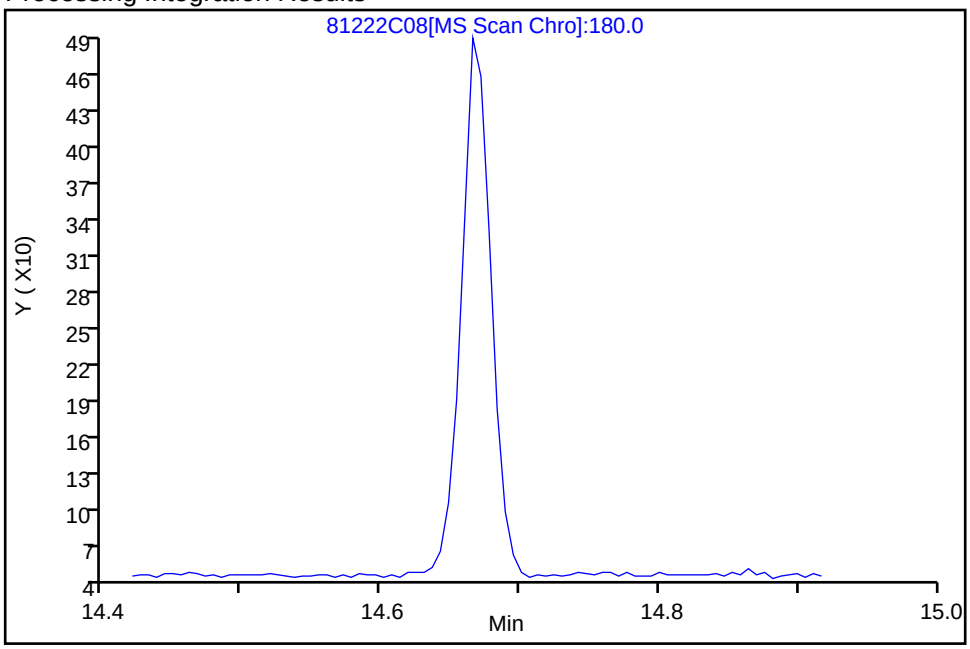
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

84 1,2,3-Trichlorobenzene, CAS: 87-61-6

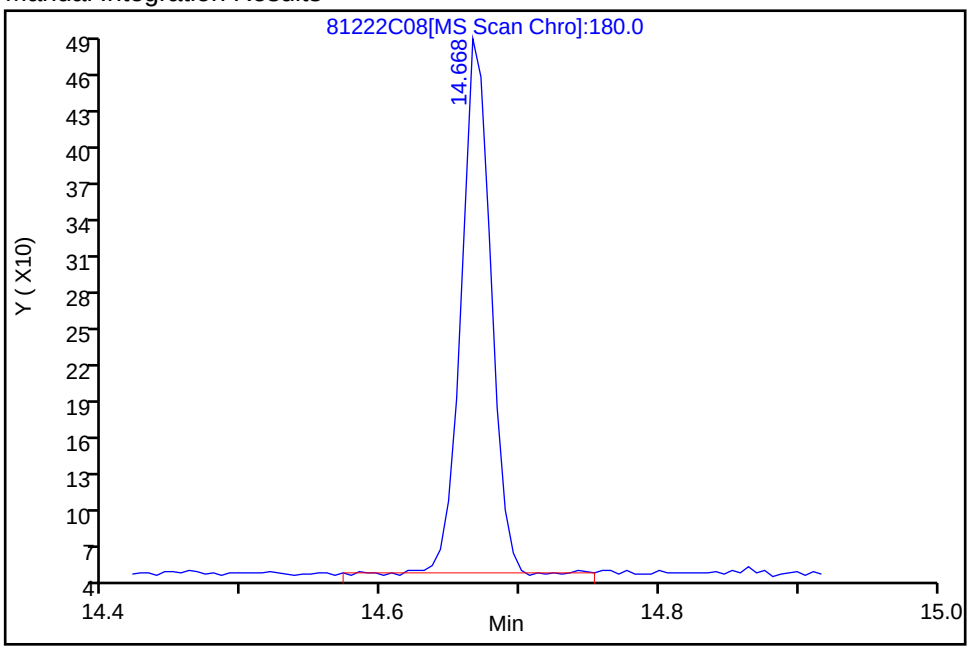
Not Detected
14.668

Processing Integration Results



Manual Integration Results

RT: 14.668
Area: 635
Amount: 0.04805
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 07:44:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

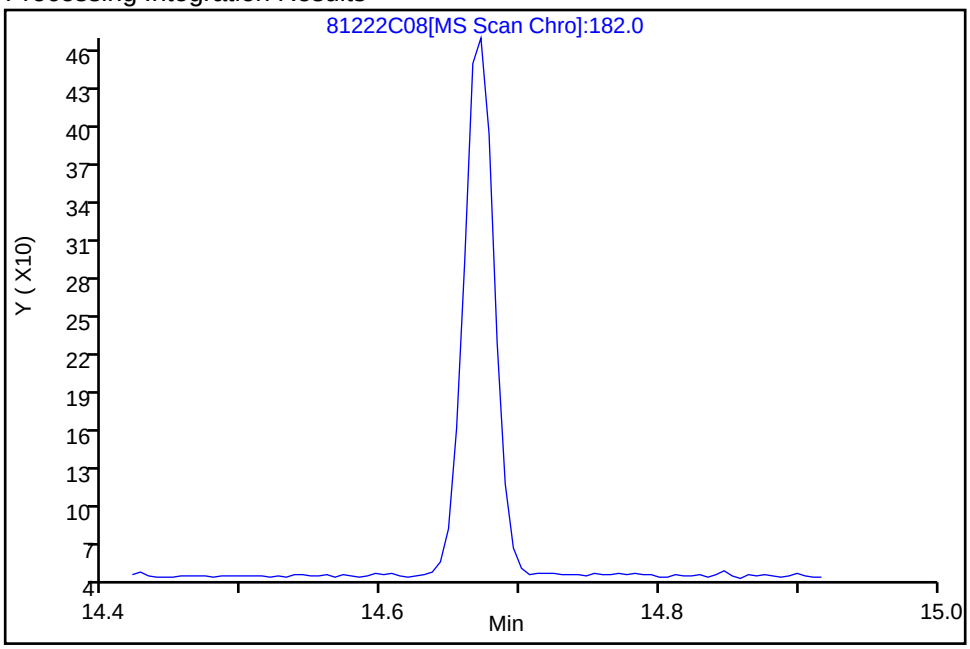
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

84 1,2,3-Trichlorobenzene, CAS: 87-61-6

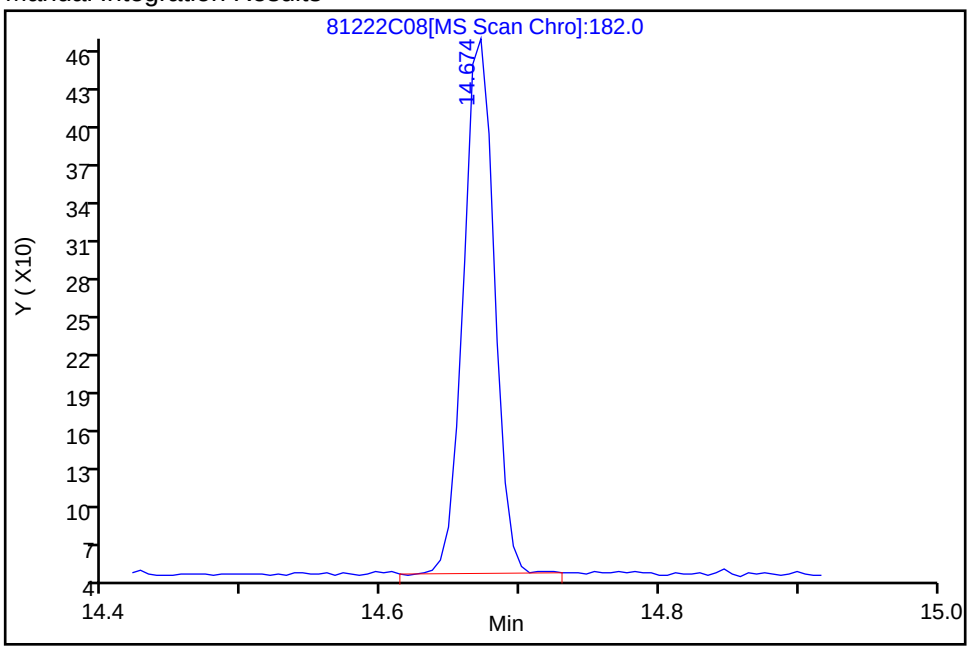
Not Detected
14.674

Processing Integration Results



Manual Integration Results

RT:	14.674
Area:	649
Amount:	0.04805
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:44:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 12:32:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

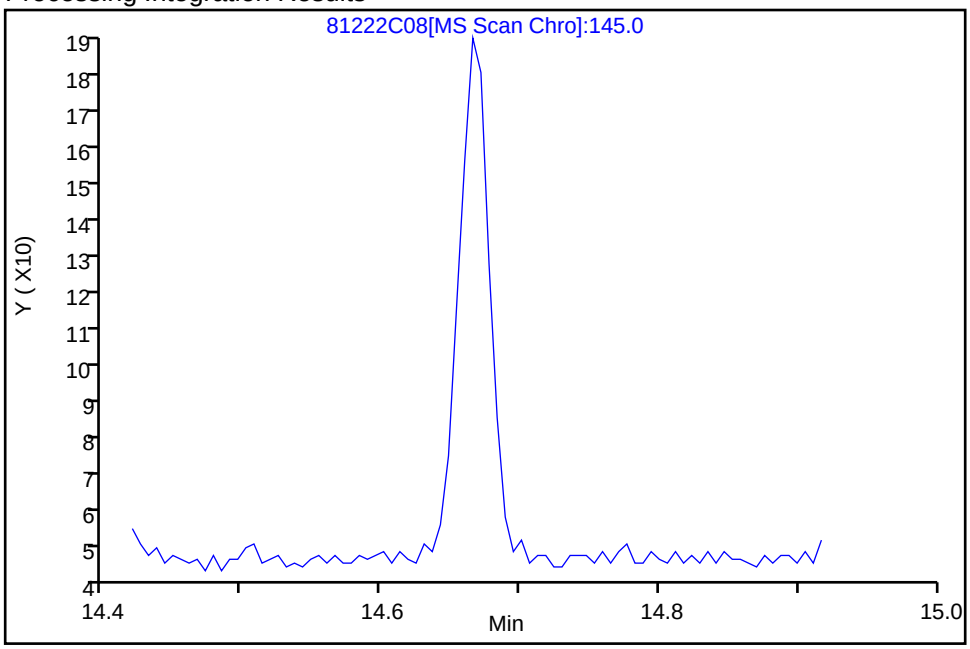
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C08.D		
Injection Date:	23-Dec-2015 02:25:30	Inst. ID:	msd8.i
Client ID:	VSTD0.05SK	Lab ID:	VSTD0.05SK
Sample Info:	8122215C.b, VSTD0.05SK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

84 1,2,3-Trichlorobenzene, CAS: 87-61-6

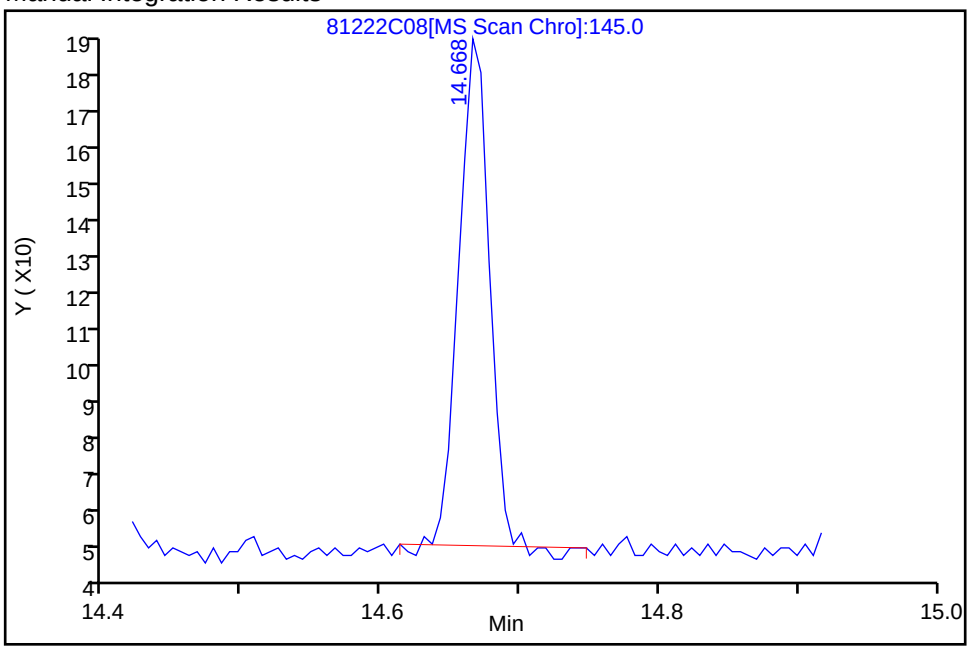
Not Detected
14.668

Processing Integration Results



Manual Integration Results

RT:	14.668
Area:	199
Amount:	0.04805
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:44:30
Audit Action: Mint
Audit Reason: NOID

Continuing Calibration Data

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: Low

Instrument ID: Agilent MSD8 Calibration Date: 12/23/2015 Time: 1119

Lab File ID: 81222C17 Init. Calib. Date(s): 12/23/2015 12/23/2015

EPA Sample No.: VSTD0.5SY Init. Calib. Time(s): 0037 0225

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 1.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 0.5	MIN RRF	%D	MAX %D
Chloroform	2.320	1.280	0.040	-44.8	20.0
Carbon tetrachloride	0.706	0.788	0.020	11.6	25.0
Benzene	1.582	1.693	0.300	7.0	20.0
1,2-Dichloroethane	0.378	0.391	0.010	3.6	25.0
1,2-Dichloropropane	0.478	0.508	0.100	6.1	20.0
Bromodichloromethane	0.497	0.547	0.090	10.0	20.0
cis-1,3-Dichloropropene	0.440	0.456	0.100	3.6	20.0
1,1,2-Trichloroethane	0.212	0.225	0.040	6.6	20.0
2-Hexanone	0.019	0.021	0.010	9.6	40.0
1,2-Dibromoethane	0.203	0.219	0.010	8.1	20.0
1,1,2,2-Tetrachloroethane	0.189	0.224	0.050	18.6	25.0
1,4-Dichlorobenzene	1.530	1.554	0.700	1.6	20.0
1,2-Dibromo-3-chloropropane	0.055	0.050	0.010	-8.9	40.0
1,2,4-Trichlorobenzene	1.050	1.100	0.300	4.8	30.0
1,2,3-Trichlorobenzene	0.838	0.827	0.200	-1.3	40.0
Chloroform-d	0.805	0.870	0.010	8.1	20.0
1,2-Dichloroethane-d4	0.254	0.264	0.010	3.7	25.0
Benzene-d6	1.347	1.433	0.030	6.4	20.0
1,2-Dichloropropane-d6	0.424	0.475	0.100	12.1	20.0
trans-1,3-Dichloropropene-d4	0.303	0.322	0.010	6.2	25.0
2-Hexanone-d5	0.033	0.037	0.010	9.8	40.0
1,1,2,2-Tetrachloroethane-d2	0.184	0.218	0.010	18.7	25.0
1,2-Dichlorobenzene-d4	0.860	0.929	0.060	8.0	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81222C17.D		
Lab Sample ID:	VSTD0.5SY	Client Sample ID:	VSTD0.5SY
Injection Date:	23-Dec-2015 11:19:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, VSTD0.5SY		
Method:	\\Organics\DD\chem\msd8.i\8122315.b\SIM2545-8.m		
Method Date:	23-Dec-2015 12:14:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	CCV	ALS Bottle:	17
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
$ 23 Chloroform-d	0.805337	0.870209	0.01	8.1	20	108
24 Chloroform	2.319956	1.280052	0.04	* -44.8	20	55
27 Carbon Tetrachloride	0.706425	0.788242	0.02	11.6	25	112
$ 29 1,2-Dichloroethane-d4	0.254228	0.263568	0.01	3.7	25	104
$ 30 Benzene-d6	1.347265	1.43291	0.03	6.4	20	106
31 Benzene	1.582433	1.692931	0.3	7	20	107
32 1,2-Dichloroethane	0.377637	0.391097	0.01	3.6	25	104
$ 35 1,2-Dichloropropane-d6	0.423737	0.474937	0.1	12.1	20	112
37 1,2-Dichloropropane	0.47827	0.507652	0.1	6.1	20	106
39 Bromodichloromethane	0.497266	0.546927	0.09	10	20	110
40 cis-1,3-Dichloropropene	0.439676	0.455583	0.1	3.6	20	104
$ 44 trans-1,3-Dichloropropen	0.302986	0.321807	0.01	6.2	25	106
46 1,1,2-Trichloroethane	0.211501	0.225362	0.04	6.6	20	107
$ 49 2-Hexanone-d5	0.033313	0.036586	0.01	9.8	40	110
50 2-Hexanone	0.018992	0.020819	0.01	9.6	40	110
52 1,2-Dibromoethane	0.20276	0.219127	0.01	8.1	20	108
$ 63 1,1,2,2-Tetrachloroethan	0.183509	0.217831	0.01	18.7	25	119
64 1,1,2,2-Tetrachloroethan	0.188583	0.223581	0.05	18.6	25	119
77 1,4-Dichlorobenzene	1.52964	1.554327	0.7	1.6	20	102
$ 78 1,2-Dichlorobenzene-d4	0.860191	0.929159	0.06	8	20	108
80 1,2-Dibromo-3-chloroprop	0.055294	0.050366	0.01	-8.9	40	91
82 1,2,4-Trichlorobenzene	1.050075	1.100135	0.3	4.8	30	105
84 1,2,3-Trichlorobenzene	0.838497	0.82738	0.2	-1.3	40	99

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81222C17.D		
Lab Sample ID:	VSTD0.5SY	Client Sample ID:	VSTD0.5SY
Injection Date:	23-Dec-2015 11:19:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, VSTD0.5SY		
Method:	\\Organics\DD\chem\msd8.i\8122315.b\SIM2545-8.m		
Method Date:	23-Dec-2015 12:14:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	CCV	ALS Bottle:	17
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 11:46:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 23 Chloroform-d	84.0	6.093	6.093	0.000	14623	0.50000	0.54028	
24 Chloroform	83.0	6.123	6.123	0.000	21510	0.50000	0.27588	
27 Carbon Tetrachloride	117.0	6.596	6.596	0.000	9734	0.50000	0.55791	
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	4429	0.50000	0.51837	
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	17695	0.50000	0.53178	
31 Benzene	78.0	6.865	6.865	0.000	20906	0.50000	0.53491	
32 1,2-Dichloroethane	62.0	6.882	6.882	0.000	6572	0.50000	0.51782	M
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	16804	0.50000	0.50000	M
$ 35 1,2-Dichloropropane-d6	67.0	7.904	7.904	0.000	5865	0.50000	0.56041	M
37 1,2-Dichloropropane	63.0	8.020	8.020	0.000	6269	0.50000	0.53072	
39 Bromodichloromethane	83.0	8.384	8.384	0.000	6754	0.50000	0.54993	
40 cis-1,3-Dichloropropene	75.0	8.996	8.996	0.000	5626	0.50000	0.51809	
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	3974	0.50000	0.53106	
46 1,1,2-Trichloroethane	97.0	9.906	9.906	0.000	2783	0.50000	0.53277	
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4518	5.0000	5.4913	
50 2-Hexanone	43.0	10.184	10.184	0.000	2571	5.0000	5.4813	M
52 1,2-Dibromoethane	107.0	10.459	10.459	0.000	2706	0.50000	0.54036	M
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	12349	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	2690	0.50000	0.59352	
64 1,1,2,2-Tetrachloroethane	83.0	12.069	12.069	0.000	2761	0.50000	0.59279	
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	6691	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0	13.173	13.173	0.000	10400	0.50000	0.50807	
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	6217	0.50000	0.54009	
80 1,2-Dibromo-3-chloropropane	75.0	13.722	13.722	0.000	337	0.50000	0.45544	M
82 1,2,4-Trichlorobenzene	180.0	14.302	14.302	0.000	7361	0.50000	0.52384	
84 1,2,3-Trichlorobenzene	180.0	14.674	14.674	0.000	5536	0.50000	0.49337	

QC Flag Legend

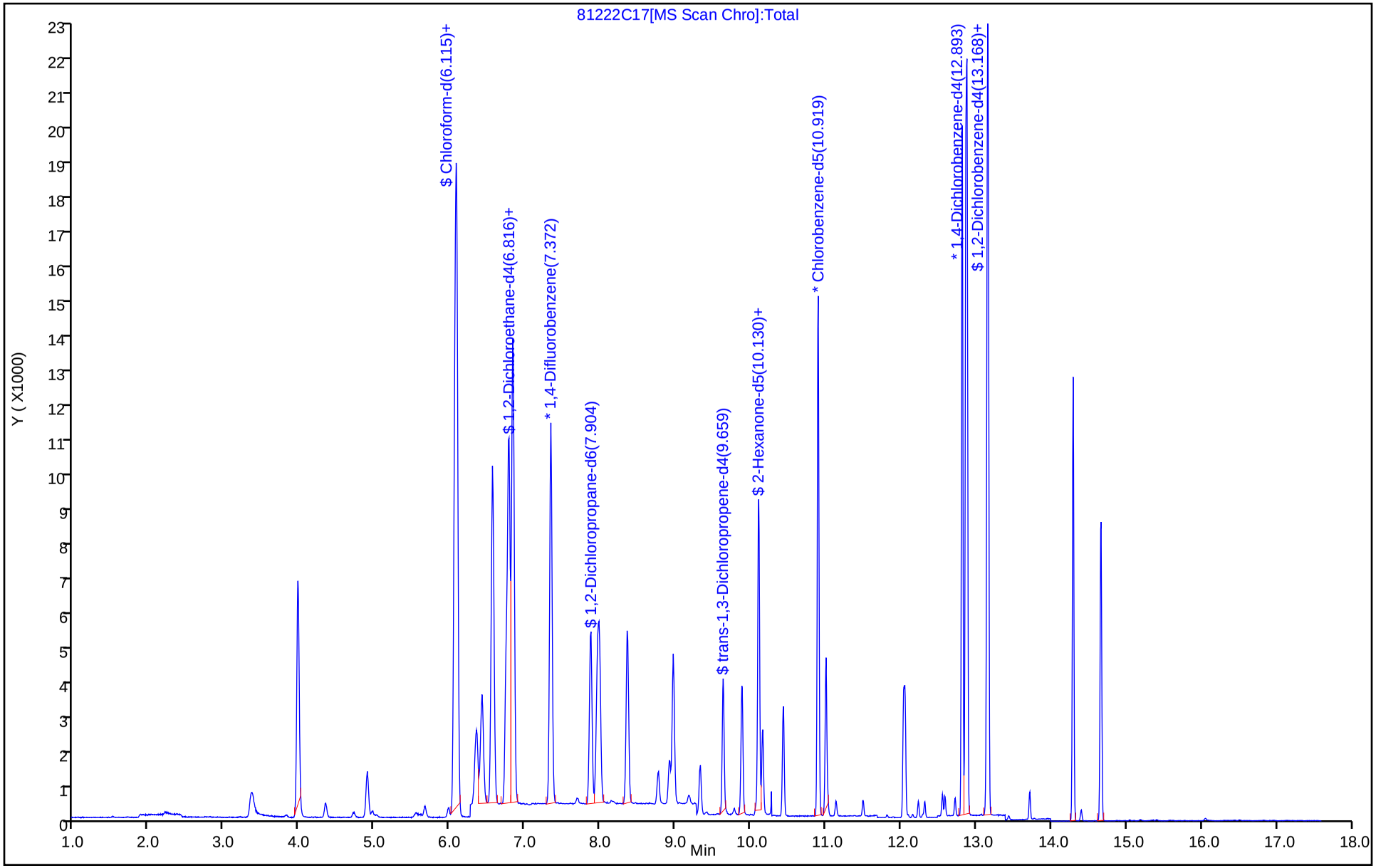
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 23-Dec-2015 16:27:51 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81222C17.D				
Injection Date:	23-Dec-2015 11:19:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	VSTD0.5SY	Lab ID:	VSTD0.5SY		
Sample Info:	8122215C.b, VSTD0.5SY				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 23-Dec-2015 16:27:51 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

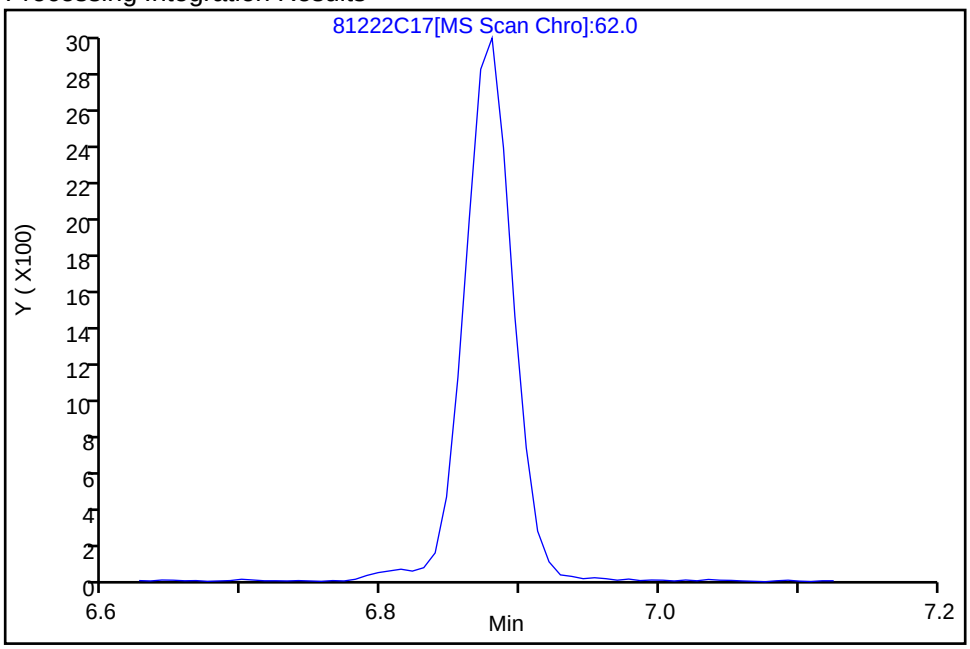
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81222C17.D		
Injection Date:	23-Dec-2015 11:19:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SY	Lab ID:	VSTD0.5SY
Sample Info:	8122215C.b, VSTD0.5SY		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

32 1,2-Dichloroethane, CAS: 107-06-2

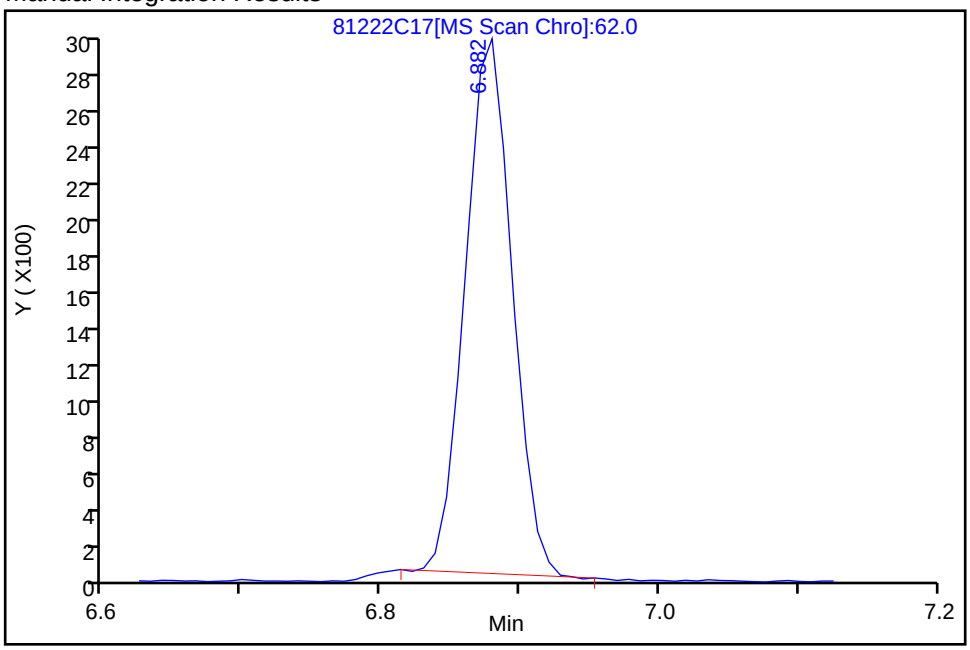
Not Detected
6.882

Processing Integration Results



Manual Integration Results

RT:	6.882
Area:	6572
Amount:	0.51782
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 11:45:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:51 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

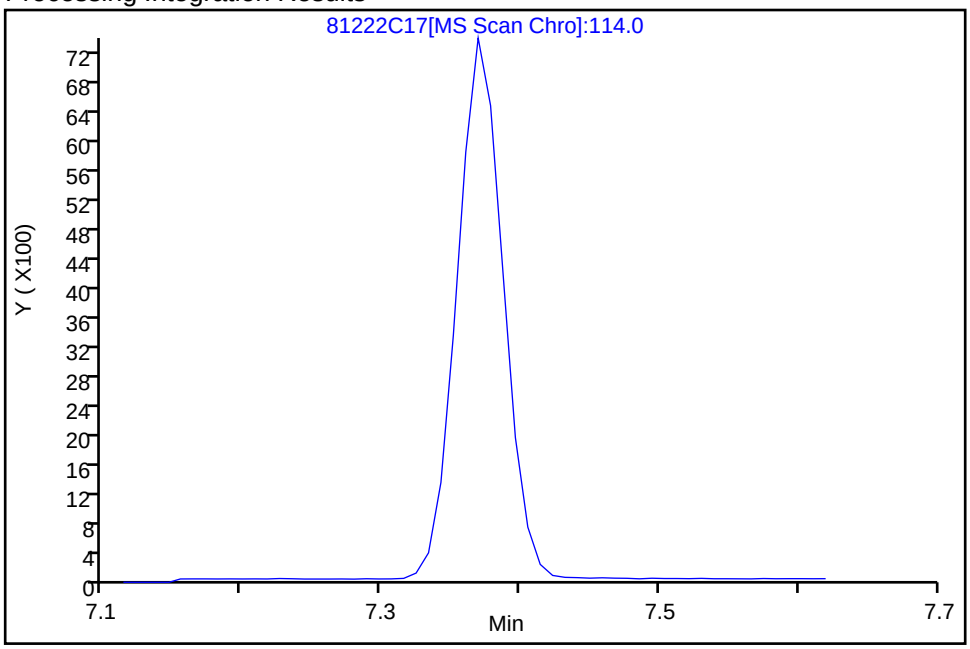
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81222C17.D		
Injection Date:	23-Dec-2015 11:19:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SY	Lab ID:	VSTD0.5SY
Sample Info:	8122215C.b, VSTD0.5SY		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 33 1,4-Difluorobenzene, CAS: 540-36-3

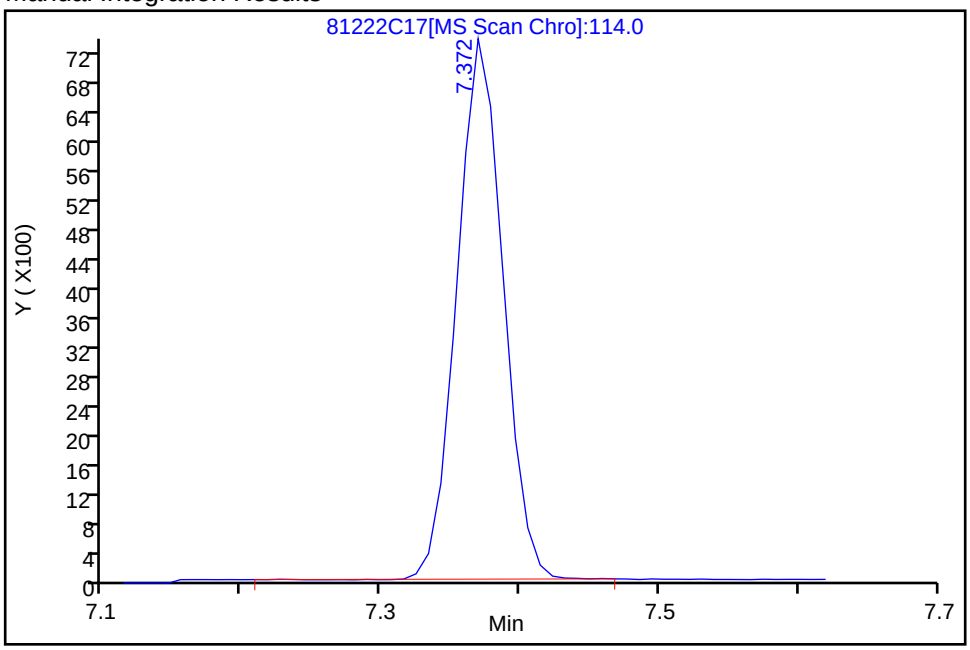
Not Detected
7.372

Processing Integration Results



Manual Integration Results

RT:	7.372
Area:	16804
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 11:46:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:51 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

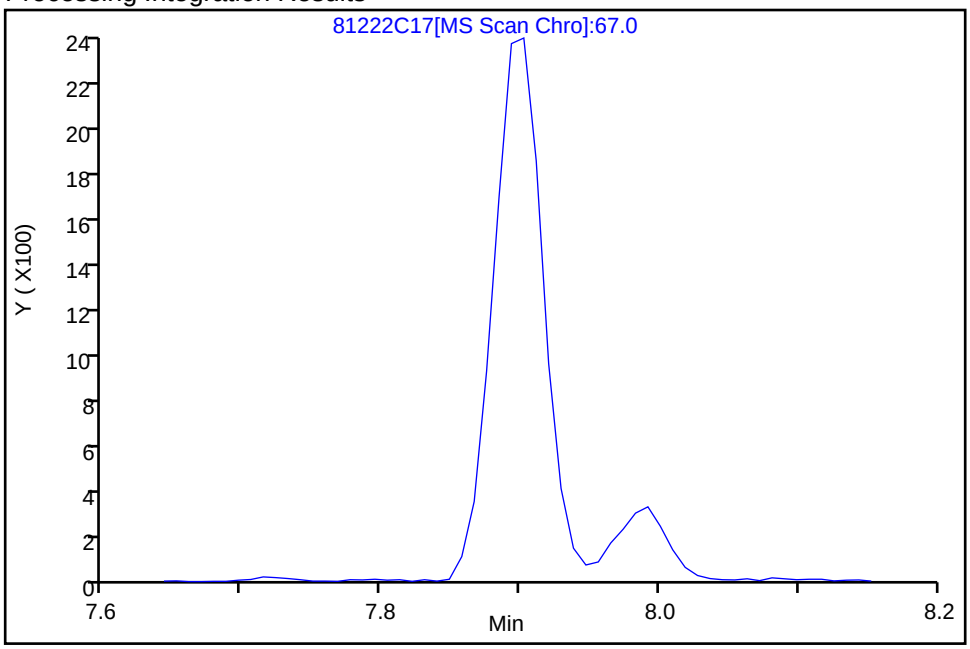
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81222C17.D		
Injection Date:	23-Dec-2015 11:19:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SY	Lab ID:	VSTD0.5SY
Sample Info:	8122215C.b, VSTD0.5SY		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

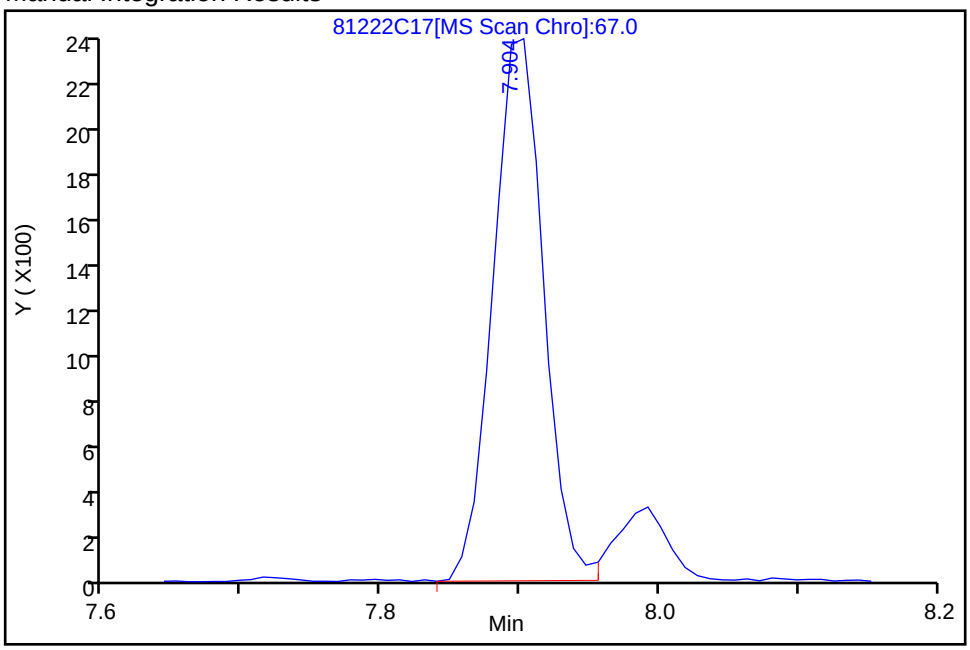
Not Detected
7.904

Processing Integration Results



Manual Integration Results

RT:	7.904
Area:	5865
Amount:	0.56041
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 11:46:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 23-Dec-2015 16:27:51 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

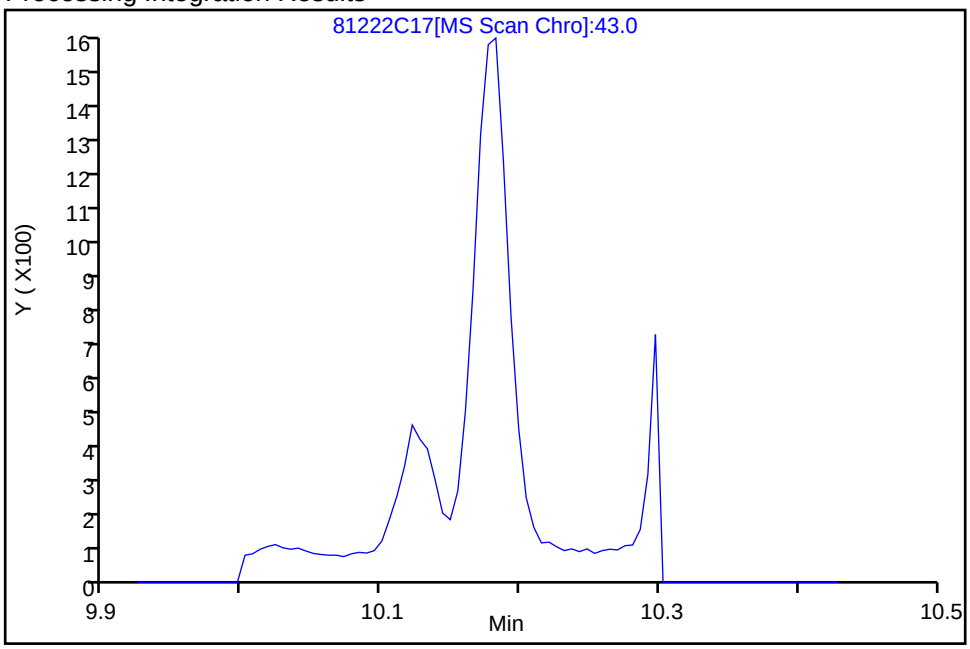
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81222C17.D		
Injection Date:	23-Dec-2015 11:19:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SY	Lab ID:	VSTD0.5SY
Sample Info:	8122215C.b, VSTD0.5SY		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

50 2-Hexanone, CAS: 591-78-6

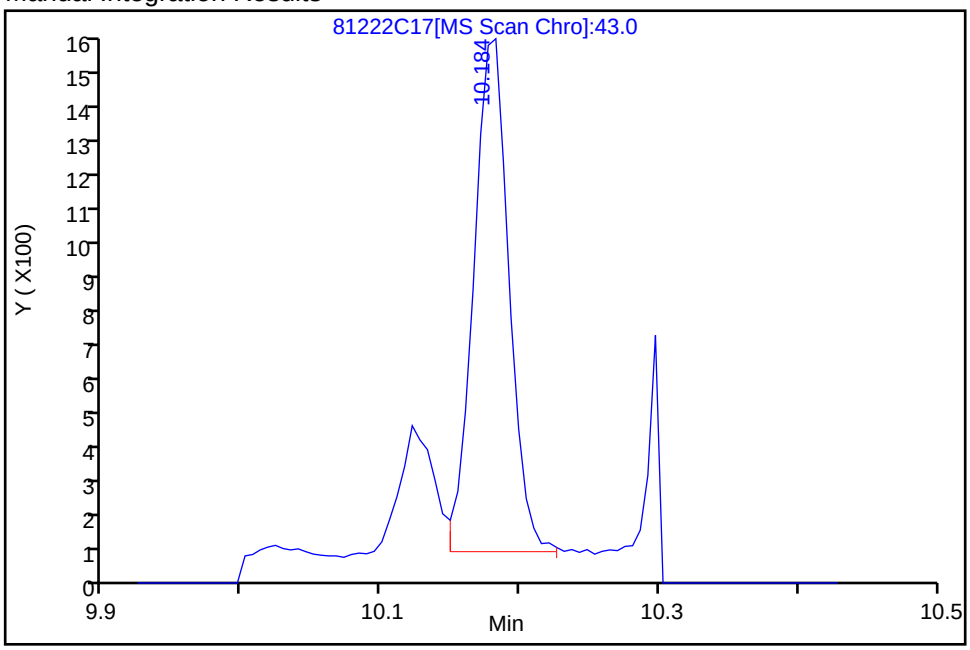
Not Detected
10.184

Processing Integration Results



Manual Integration Results

RT:	10.184
Area:	2571
Amount:	5.4813
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 11:46:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:51 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

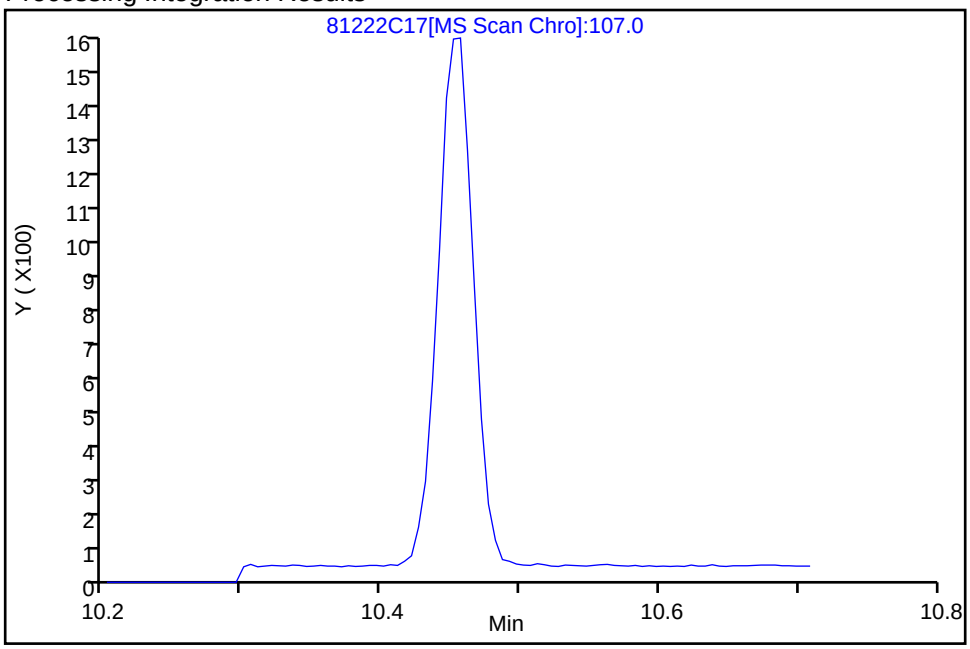
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81222C17.D		
Injection Date:	23-Dec-2015 11:19:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SY	Lab ID:	VSTD0.5SY
Sample Info:	8122215C.b, VSTD0.5SY		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

52 1,2-Dibromoethane, CAS: 106-93-4

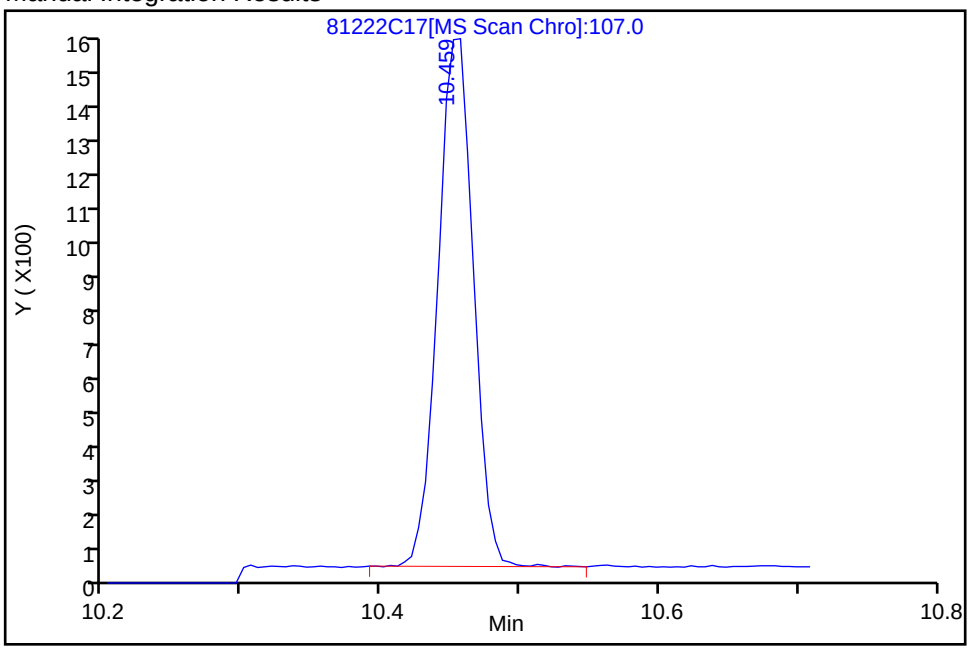
Not Detected
10.459

Processing Integration Results



Manual Integration Results

RT:	10.459
Area:	2706
Amount:	0.54036
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 11:46:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:51 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

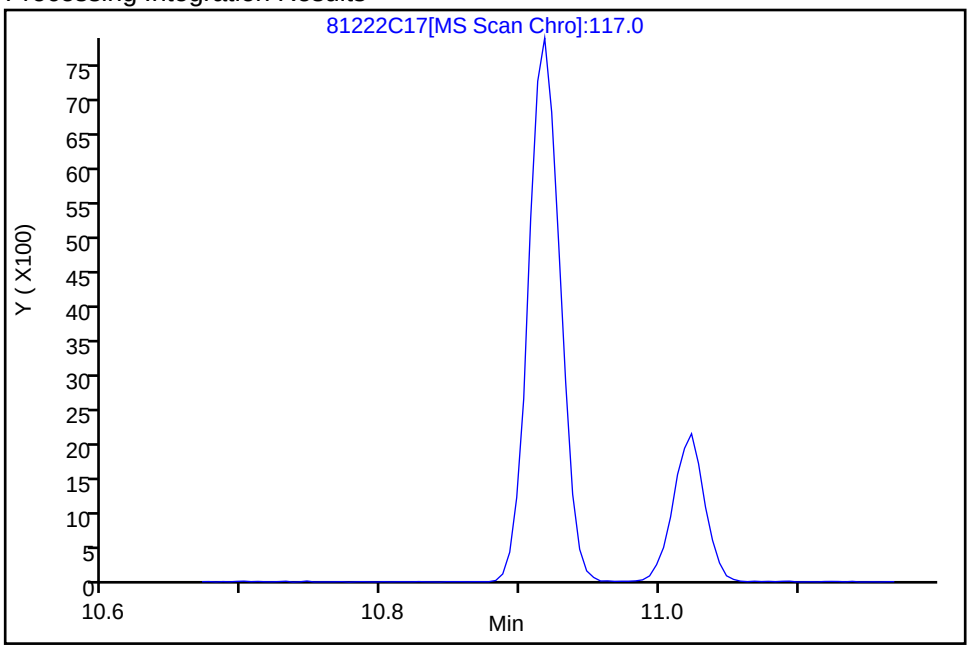
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81222C17.D		
Injection Date:	23-Dec-2015 11:19:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SY	Lab ID:	VSTD0.5SY
Sample Info:	8122215C.b, VSTD0.5SY		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

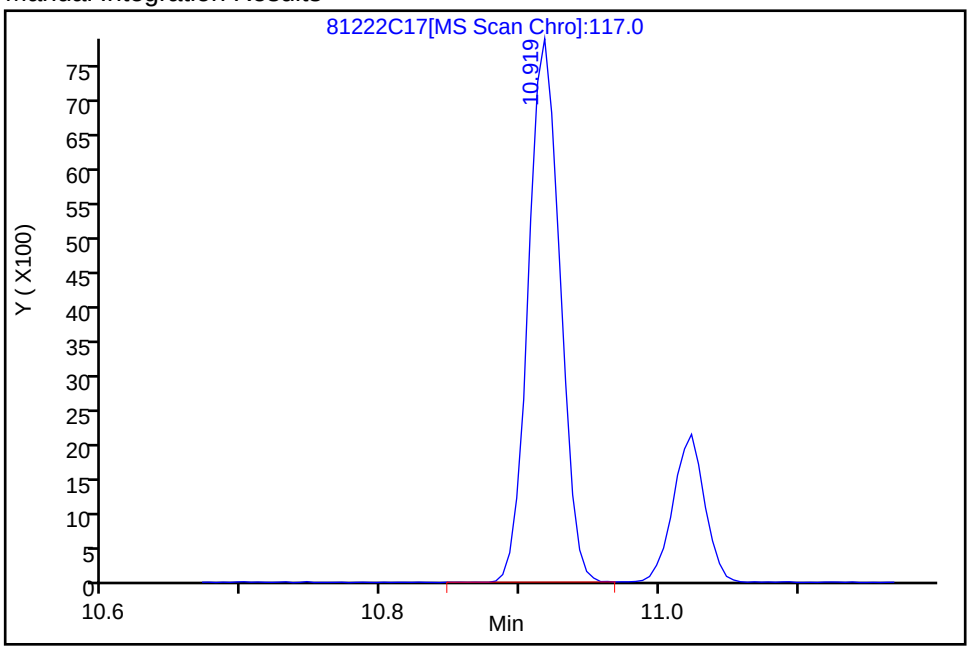
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	12349
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 11:46:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:51 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

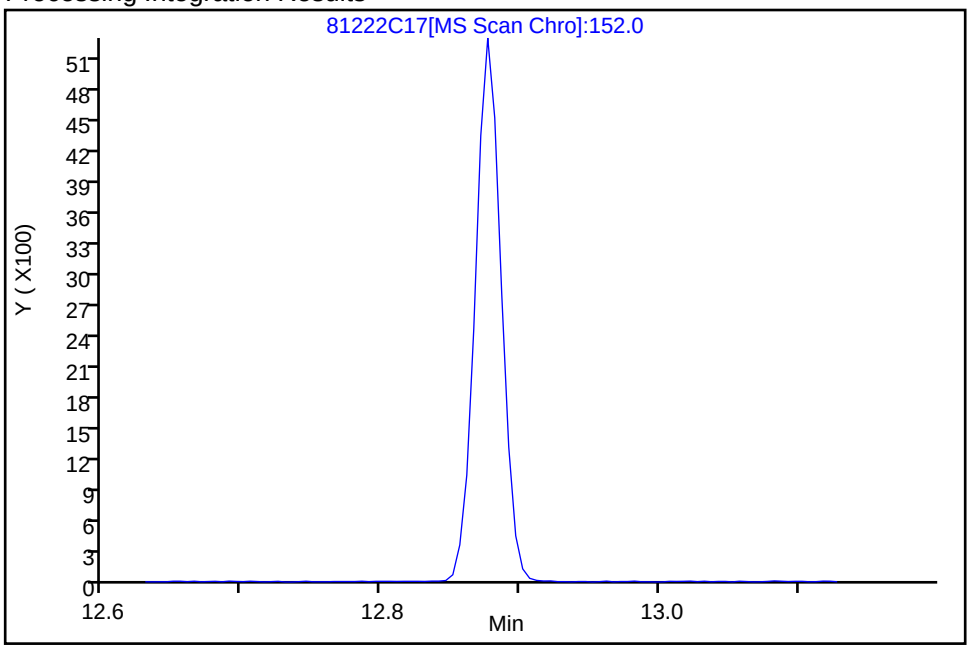
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81222C17.D		
Injection Date:	23-Dec-2015 11:19:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SY	Lab ID:	VSTD0.5SY
Sample Info:	8122215C.b, VSTD0.5SY		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

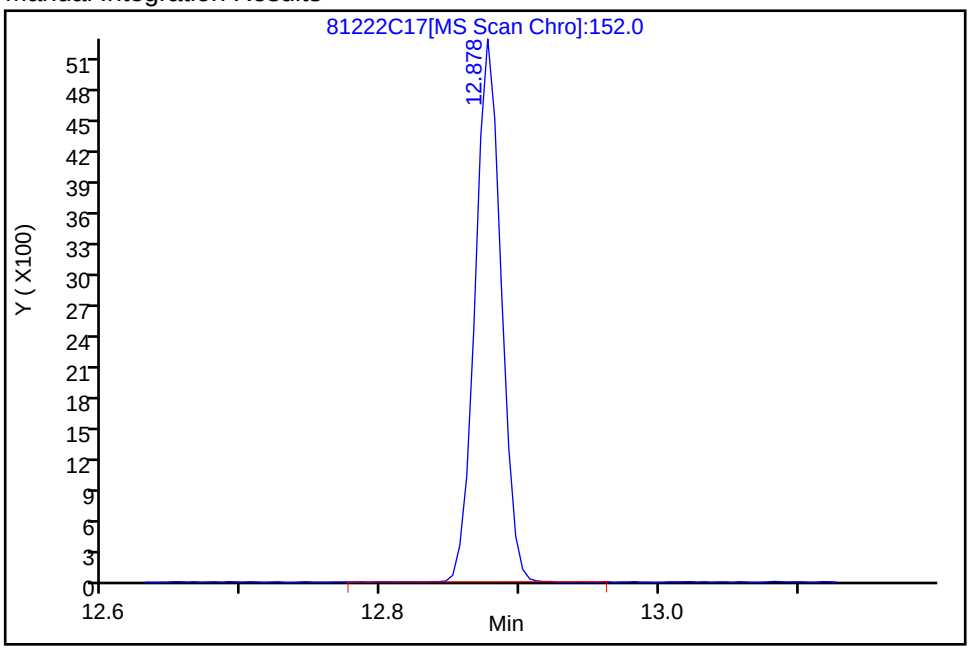
Processing Integration Results

Not Detected
12.878



Manual Integration Results

RT:	12.878
Area:	6691
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 11:46:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:51 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

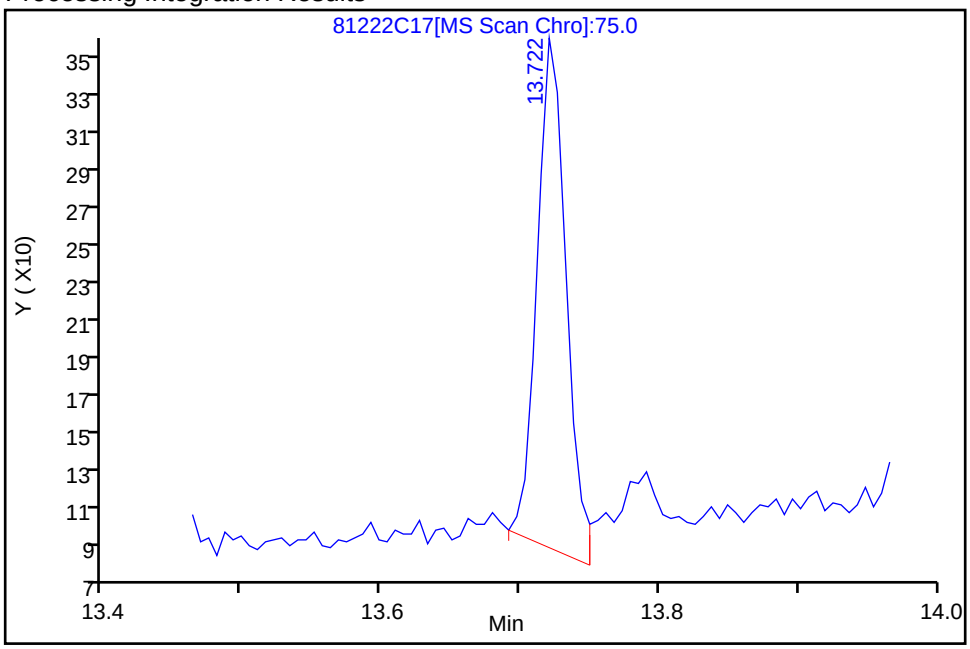
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81222C17.D		
Injection Date:	23-Dec-2015 11:19:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5SY	Lab ID:	VSTD0.5SY
Sample Info:	8122215C.b, VSTD0.5SY		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

80 1,2-Dibromo-3-chloropropane, CAS: 96-12-8

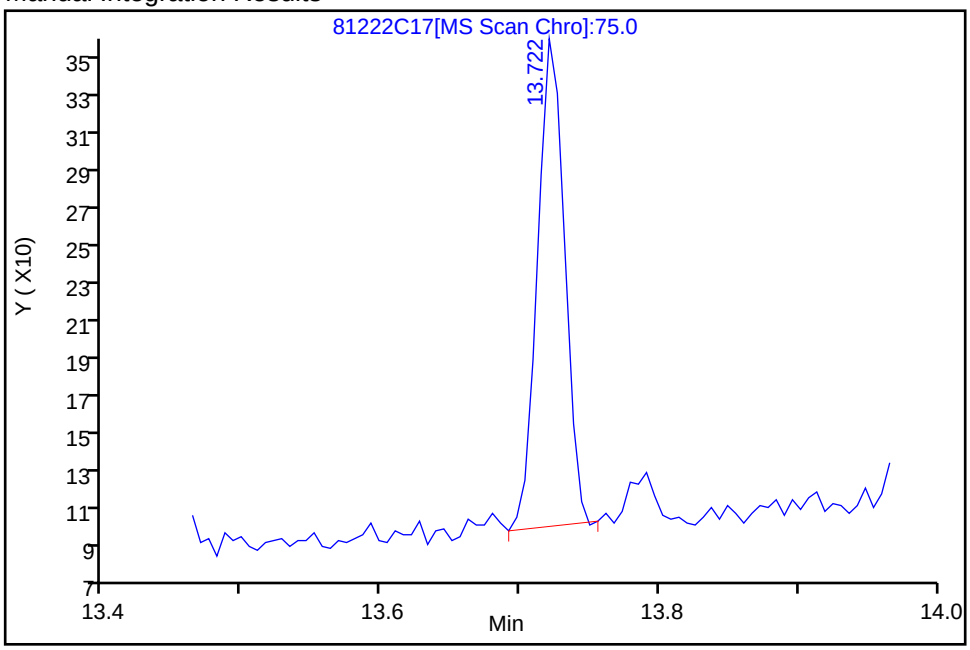
Processing Integration Results

RT: 13.722
Area: 366
Amount: 0
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 13.722
Area: 337
Amount: 0.45544
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 11:46:30
Audit Action: Mint
Audit Reason: IAI

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: Low

Instrument ID: Agilent MSD8 Calibration Date: 12/23/2015 Time: 1534

Lab File ID: 81223A07 Init. Calib. Date(s): 12/23/2015 12/23/2015

EPA Sample No.: VSTD0.5TC Init. Calib. Time(s): 0037 0225

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 1.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 0.5	MIN RRF	%D	MAX %D
Chloroform	2.320	1.215	0.010	-47.6	50.0
Carbon tetrachloride	0.706	0.762	0.010	7.8	50.0
Benzene	1.582	1.664	0.010	5.1	50.0
1,2-Dichloroethane	0.378	0.387	0.010	2.6	50.0
1,2-Dichloropropane	0.478	0.496	0.010	3.7	50.0
Bromodichloromethane	0.497	0.545	0.010	9.7	50.0
cis-1,3-Dichloropropene	0.440	0.440	0.010	0.0	50.0
1,1,2-Trichloroethane	0.212	0.229	0.010	8.5	50.0
2-Hexanone	0.019	0.020	0.010	7.3	50.0
1,2-Dibromoethane	0.203	0.215	0.010	6.3	50.0
1,1,2,2-Tetrachloroethane	0.189	0.215	0.010	14.0	50.0
1,4-Dichlorobenzene	1.530	1.677	0.010	9.6	50.0
1,2-Dibromo-3-chloropropane	0.055	0.048	0.010	-12.9	50.0
1,2,4-Trichlorobenzene	1.050	1.096	0.010	4.3	50.0
1,2,3-Trichlorobenzene	0.838	0.823	0.010	-1.8	50.0
Chloroform-d	0.805	0.797	0.010	-1.0	50.0
1,2-Dichloroethane-d4	0.254	0.255	0.010	0.4	50.0
Benzene-d6	1.347	1.332	0.010	-1.2	50.0
1,2-Dichloropropane-d6	0.424	0.440	0.010	3.8	50.0
trans-1,3-Dichloropropene-d4	0.303	0.302	0.010	-0.2	50.0
2-Hexanone-d5	0.033	0.034	0.010	1.3	50.0
1,1,2,2-Tetrachloroethane-d2	0.184	0.197	0.010	7.4	50.0
1,2-Dichlorobenzene-d4	0.860	0.872	0.010	1.4	50.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D		
Lab Sample ID:	VSTD0.5TC	Client Sample ID:	VSTD0.5TC
Injection Date:	23-Dec-2015 15:34:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd8.i
Sample Info:	8122315.b, VSTD0.5TC		
Method:	\\Organics\DD\chem\msd8.i\8122315.b\SIM2545-8e.m		
Method Date:	23-Dec-2015 16:25:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	CCV	ALS Bottle:	8
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
$ 23 Chloroform-d	0.805337	0.796889	0.01	-1	50	99
24 Chloroform	2.319956	1.215304	0.01	-47.6	50	52
27 Carbon Tetrachloride	0.706425	0.76175	0.01	7.8	50	108
$ 29 1,2-Dichloroethane-d4	0.254228	0.255135	0.01	0.4	50	100
$ 30 Benzene-d6	1.347265	1.331516	0.01	-1.2	50	99
31 Benzene	1.582433	1.663548	0.01	5.1	50	105
32 1,2-Dichloroethane	0.377637	0.387362	0.01	2.6	50	103
$ 35 1,2-Dichloropropane-d6	0.423737	0.439738	0.01	3.8	50	104
37 1,2-Dichloropropane	0.47827	0.496095	0.01	3.7	50	104
39 Bromodichloromethane	0.497266	0.545381	0.01	9.7	50	110
40 cis-1,3-Dichloropropene	0.439676	0.43959	0.01	0	50	100
$ 44 trans-1,3-Dichloropropen	0.302986	0.302269	0.01	-0.2	50	100
46 1,1,2-Trichloroethane	0.211501	0.229483	0.01	8.5	50	109
$ 49 2-Hexanone-d5	0.033313	0.033741	0.01	1.3	50	101
50 2-Hexanone	0.018992	0.02037	0.01	7.3	50	107
52 1,2-Dibromoethane	0.20276	0.215485	0.01	6.3	50	106
$ 63 1,1,2,2-Tetrachloroethan	0.183509	0.197068	0.01	7.4	50	107
64 1,1,2,2-Tetrachloroethan	0.188583	0.21497	0.01	14	50	114
77 1,4-Dichlorobenzene	1.52964	1.676944	0.01	9.6	50	110
$ 78 1,2-Dichlorobenzene-d4	0.860191	0.871941	0.01	1.4	50	101
80 1,2-Dibromo-3-chloroprop	0.055294	0.048141	0.01	-12.9	50	87
82 1,2,4-Trichlorobenzene	1.050075	1.09574	0.01	4.3	50	104
84 1,2,3-Trichlorobenzene	0.838497	0.823394	0.01	-1.8	50	98

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D		
Lab Sample ID:	VSTD0.5TC	Client Sample ID:	VSTD0.5TC
Injection Date:	23-Dec-2015 15:34:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd8.i
Sample Info:	8122315.b, VSTD0.5TC		
Method:	\\Organics\DD\chem\msd8.i\8122315.b\SIM2545-8e.m		
Method Date:	23-Dec-2015 16:25:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	CCV	ALS Bottle:	8
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 15:55:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 23 Chloroform-d	84.0	6.096	6.096	0.000	14705	0.50000	0.49476	
24 Chloroform	83.0	6.119	6.119	0.000	22426	0.50000	0.26192	
27 Carbon Tetrachloride	117.0	6.596	6.596	0.000	10340	0.50000	0.53916	
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	4708	0.50000	0.50178	M
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	18074	0.50000	0.49416	
31 Benzene	78.0	6.865	6.865	0.000	22581	0.50000	0.52563	
32 1,2-Dichloroethane	62.0	6.873	6.873	0.000	7148	0.50000	0.51288	M
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	18453	0.50000	0.50000	M
$ 35 1,2-Dichloropropane-d6	67.0	7.895	7.895	0.000	5969	0.50000	0.51888	M
37 1,2-Dichloropropane	63.0	8.020	8.020	0.000	6734	0.50000	0.51864	
39 Bromodichloromethane	83.0	8.384	8.384	0.000	7403	0.50000	0.54838	
40 cis-1,3-Dichloropropene	75.0	8.996	8.996	0.000	5967	0.50000	0.49990	
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	4103	0.50000	0.49882	
46 1,1,2-Trichloroethane	97.0	9.906	9.906	0.000	3115	0.50000	0.54251	
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4580	5.0000	5.0643	
50 2-Hexanone	43.0	10.179	10.179	0.000	2765	5.0000	5.3629	M
52 1,2-Dibromoethane	107.0	10.454	10.454	0.000	2925	0.50000	0.53138	M
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	13574	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	2675	0.50000	0.53694	
64 1,1,2,2-Tetrachloroethane	83.0	12.069	12.069	0.000	2918	0.50000	0.56996	
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	7395	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0	12.893	12.893	0.000	12401	0.50000	0.54815	M
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	6448	0.50000	0.50683	
80 1,2-Dibromo-3-chloropropane	75.0	13.722	13.722	0.000	356	0.50000	0.43531	M
82 1,2,4-Trichlorobenzene	180.0	14.302	14.302	0.000	8103	0.50000	0.52174	
84 1,2,3-Trichlorobenzene	180.0	14.668	14.668	0.000	6089	0.50000	0.49099	

QC Flag Legend

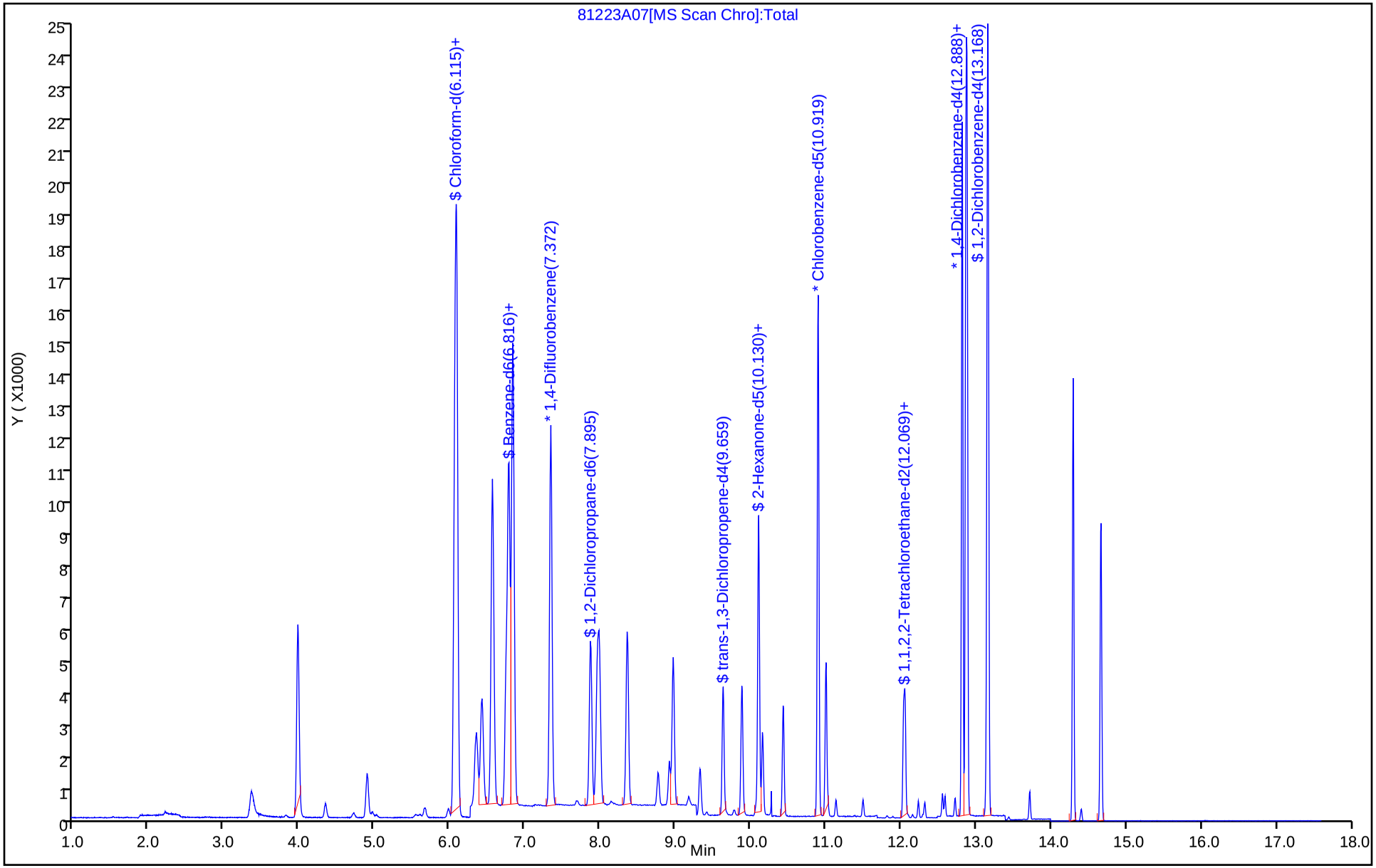
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 23-Dec-2015 16:27:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D				
Injection Date:	23-Dec-2015 15:34:30	Inst. ID:	msd8.i	Operator:	PAP
Client ID:	VSTD0.5TC	Lab ID:	VSTD0.5TC		
Sample Info:	8122315.b, VSTD0.5TC				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 23-Dec-2015 16:27:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

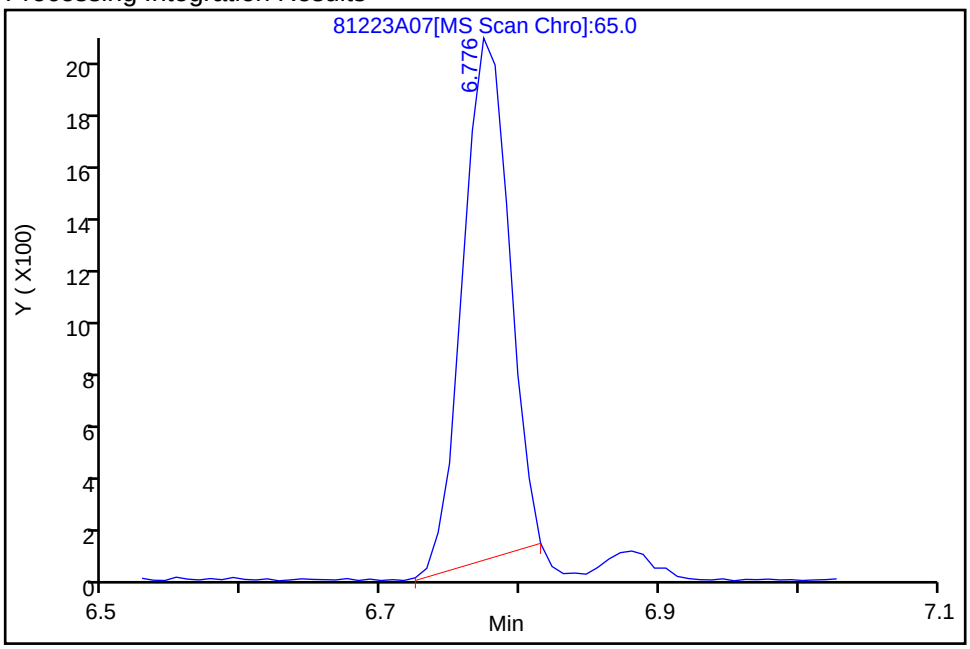
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D		
Injection Date:	23-Dec-2015 15:34:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5TC	Lab ID:	VSTD0.5TC
Sample Info:	8122315.b, VSTD0.5TC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 29 1,2-Dichloroethane-d4, CAS: 17060-07-0

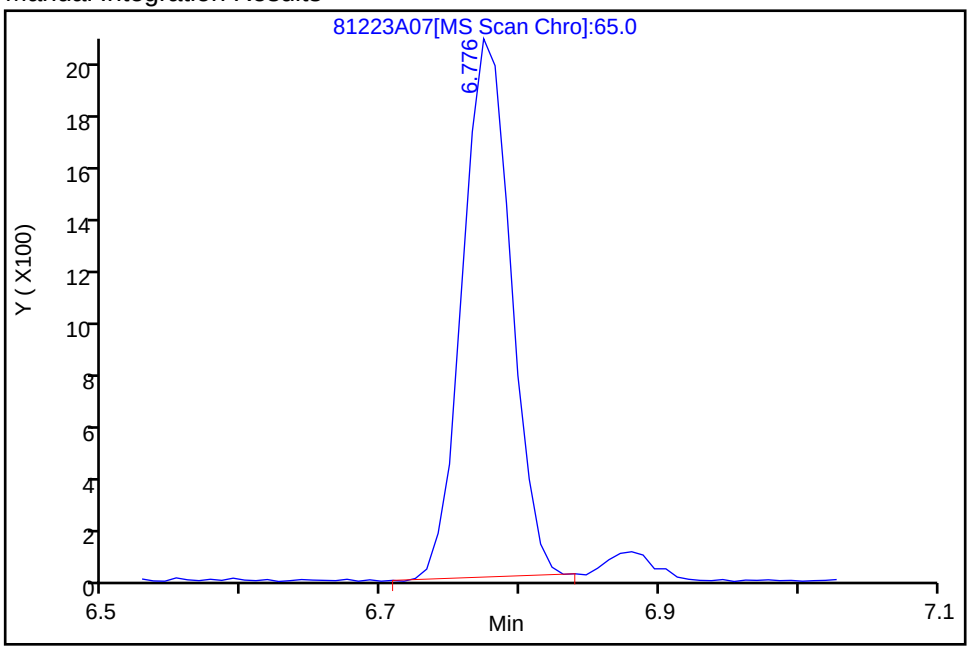
Processing Integration Results

RT: 6.776
Area: 4291
Amount: 0
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 6.776
Area: 4708
Amount: 0.50178
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 15:55:30
Audit Action: Mint
Audit Reason: IAI

Report Date: 23-Dec-2015 16:27:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

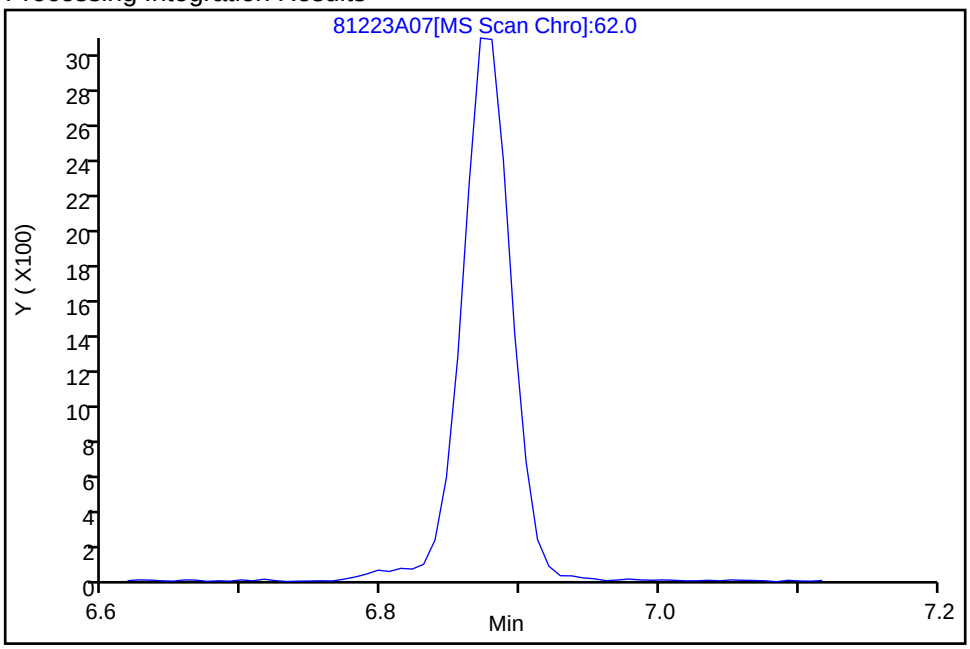
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D		
Injection Date:	23-Dec-2015 15:34:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5TC	Lab ID:	VSTD0.5TC
Sample Info:	8122315.b, VSTD0.5TC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

32 1,2-Dichloroethane, CAS: 107-06-2

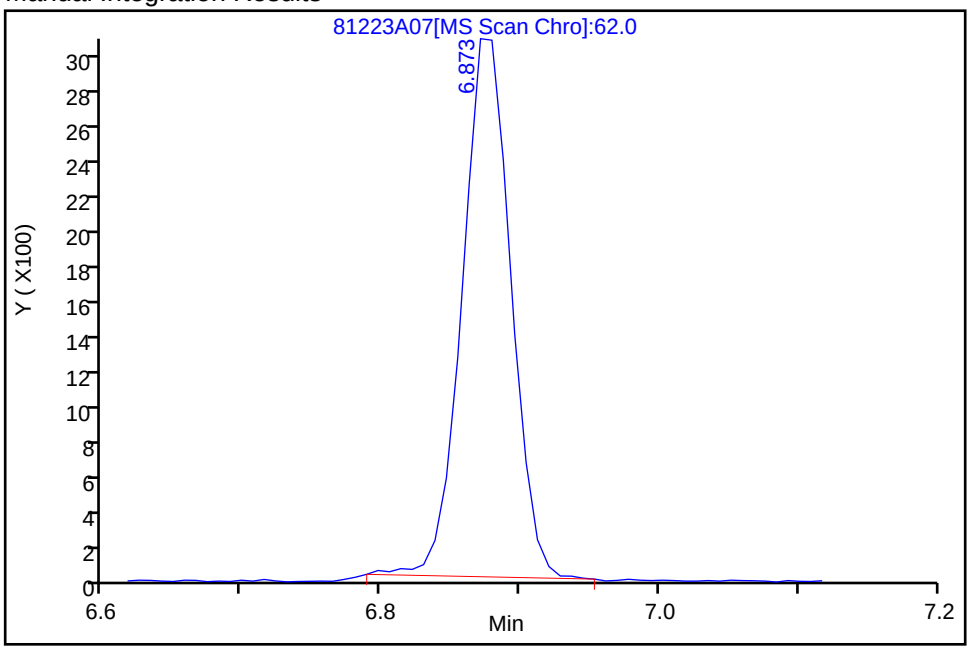
Not Detected
6.873

Processing Integration Results



Manual Integration Results

RT:	6.873
Area:	7148
Amount:	0.51288
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 15:55:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

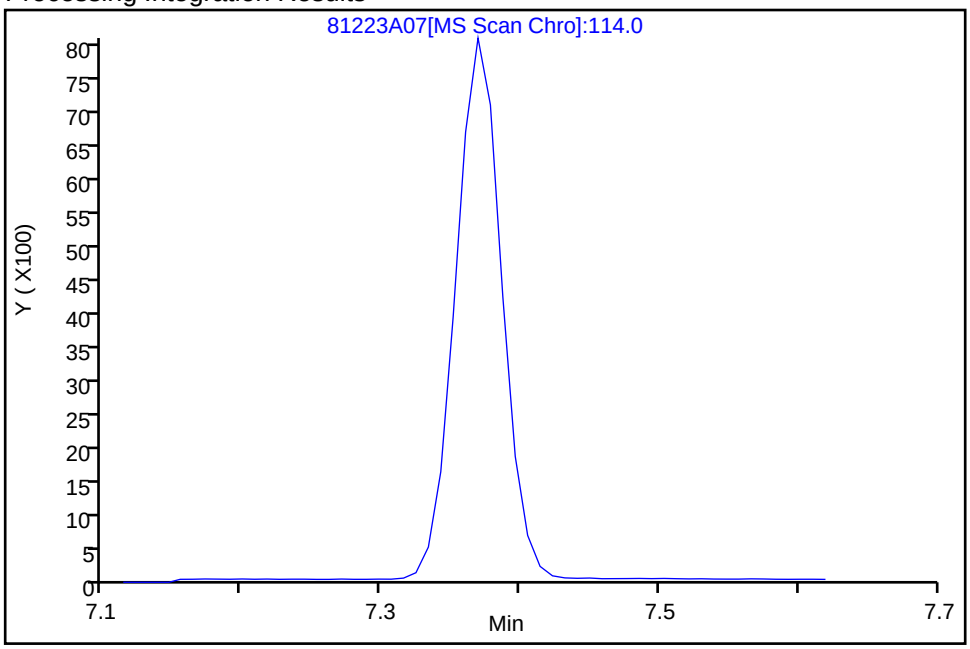
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D		
Injection Date:	23-Dec-2015 15:34:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5TC	Lab ID:	VSTD0.5TC
Sample Info:	8122315.b, VSTD0.5TC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 33 1,4-Difluorobenzene, CAS: 540-36-3

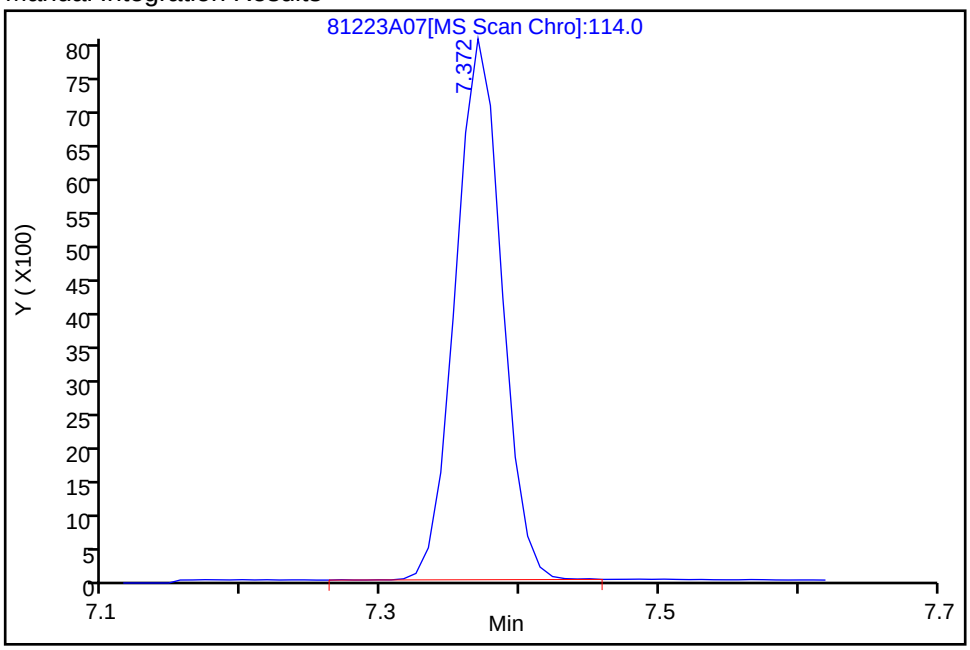
Not Detected
7.372

Processing Integration Results



Manual Integration Results

RT:	7.372
Area:	18453
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 15:55:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

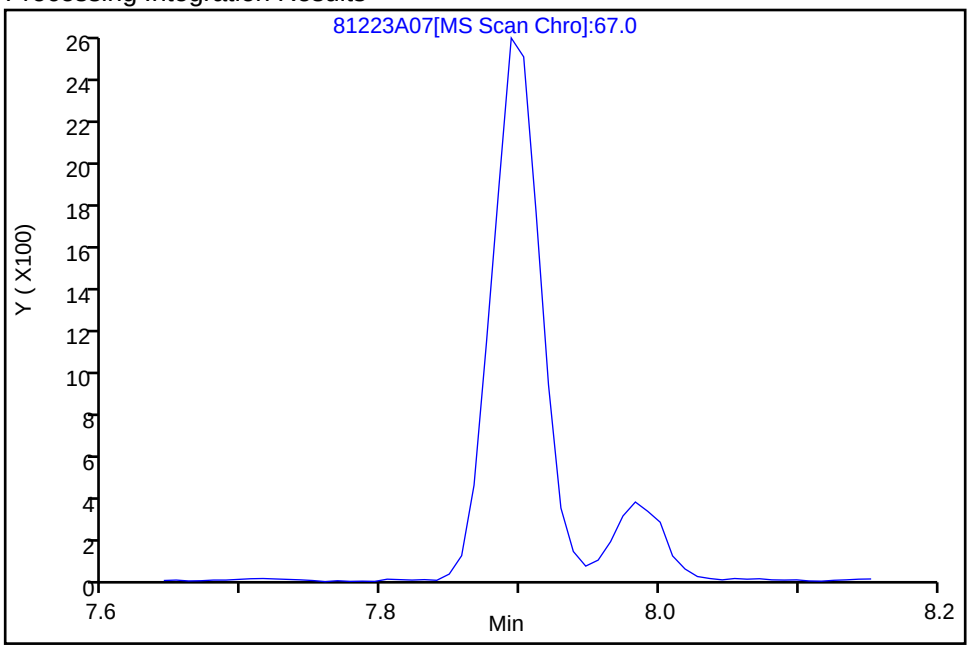
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D		
Injection Date:	23-Dec-2015 15:34:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5TC	Lab ID:	VSTD0.5TC
Sample Info:	8122315.b, VSTD0.5TC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

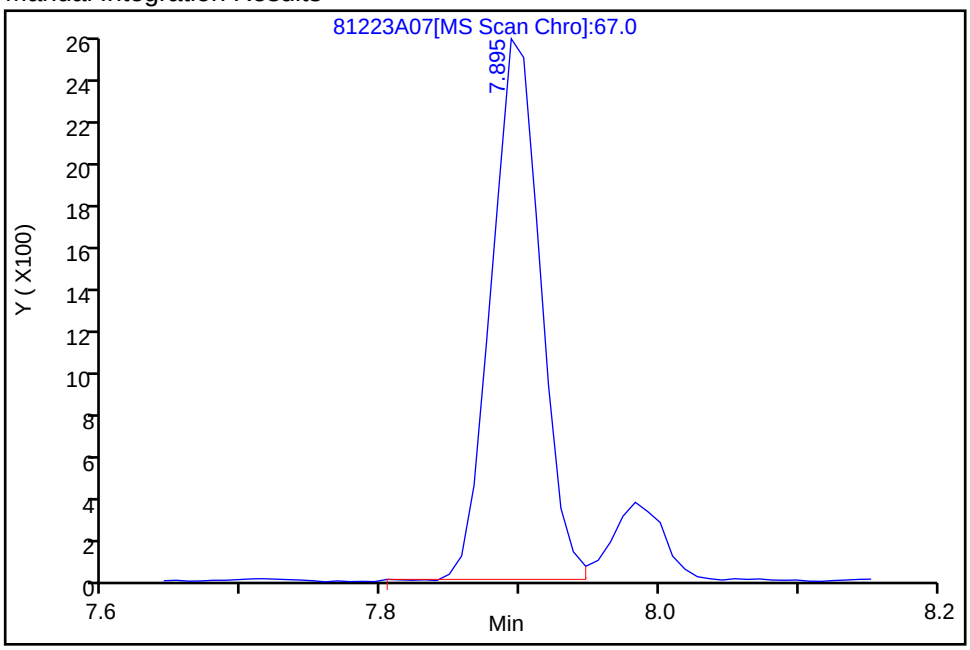
Not Detected
7.895

Processing Integration Results



Manual Integration Results

RT:	7.895
Area:	5969
Amount:	0.51888
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 15:55:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

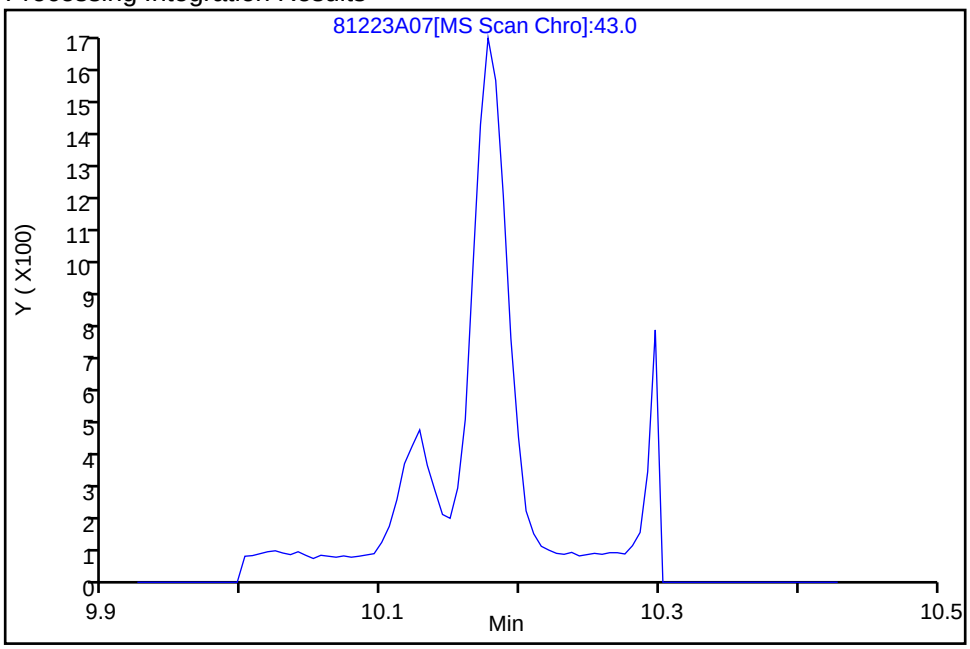
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D		
Injection Date:	23-Dec-2015 15:34:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5TC	Lab ID:	VSTD0.5TC
Sample Info:	8122315.b, VSTD0.5TC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

50 2-Hexanone, CAS: 591-78-6

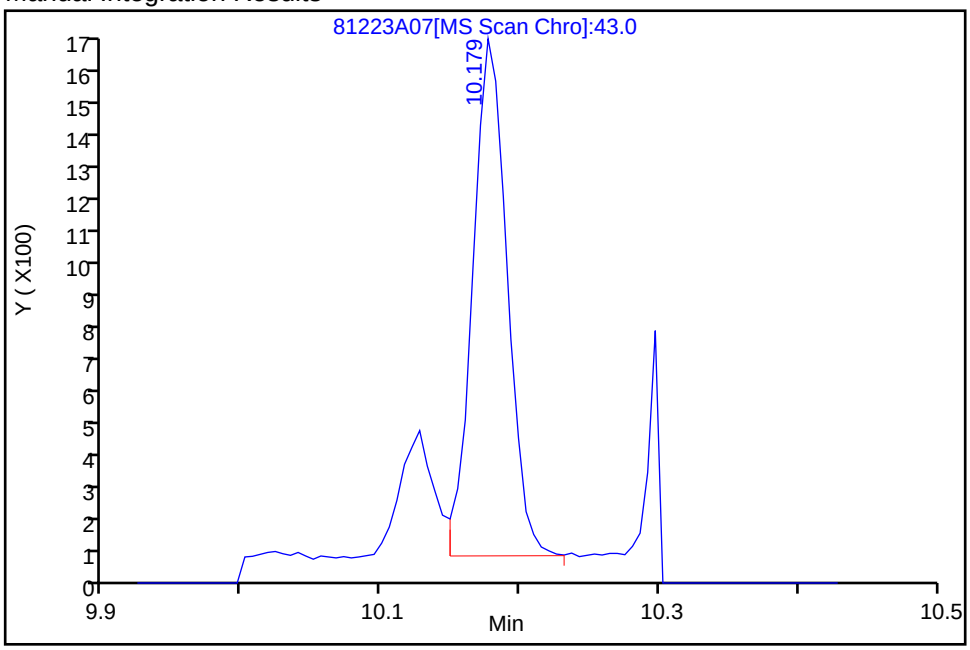
Not Detected
10.179

Processing Integration Results



Manual Integration Results

RT: 10.179
Area: 2765
Amount: 5.3629
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 15:56:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

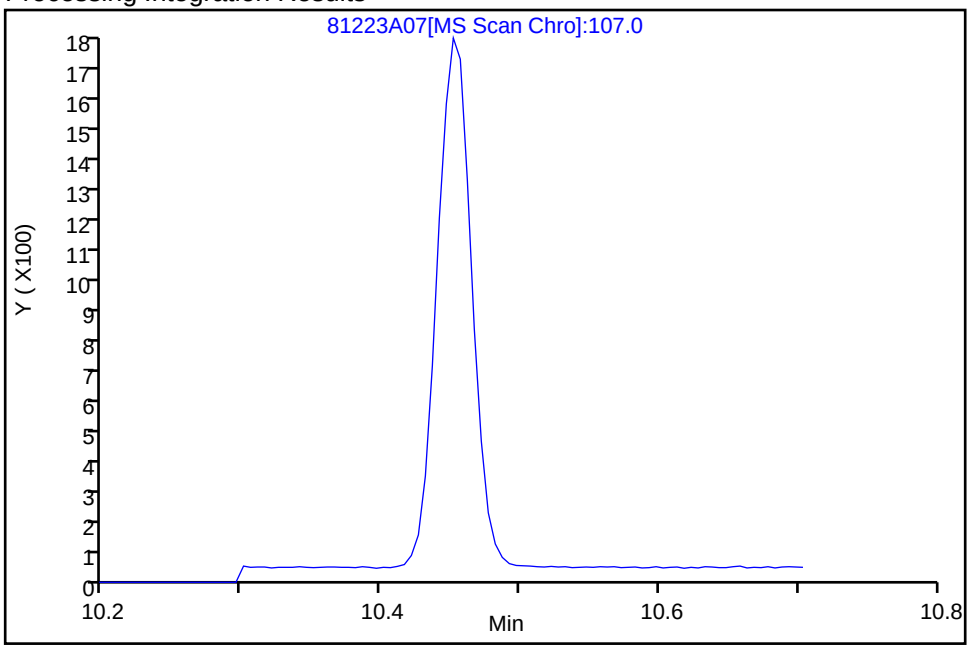
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D		
Injection Date:	23-Dec-2015 15:34:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5TC	Lab ID:	VSTD0.5TC
Sample Info:	8122315.b, VSTD0.5TC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

52 1,2-Dibromoethane, CAS: 106-93-4

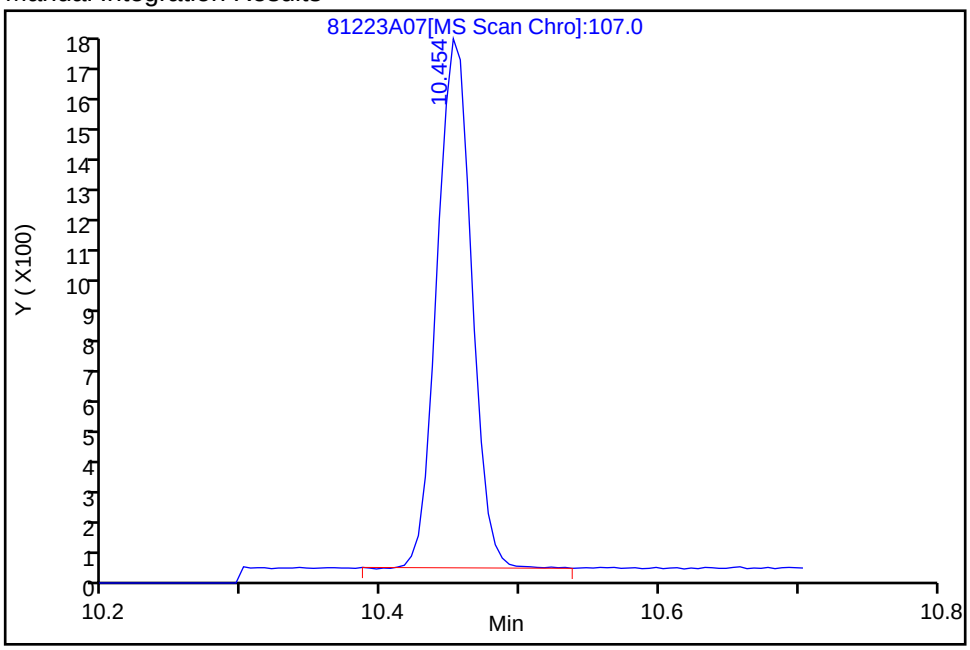
Not Detected
10.454

Processing Integration Results



Manual Integration Results

RT:	10.454
Area:	2925
Amount:	0.53138
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 15:56:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

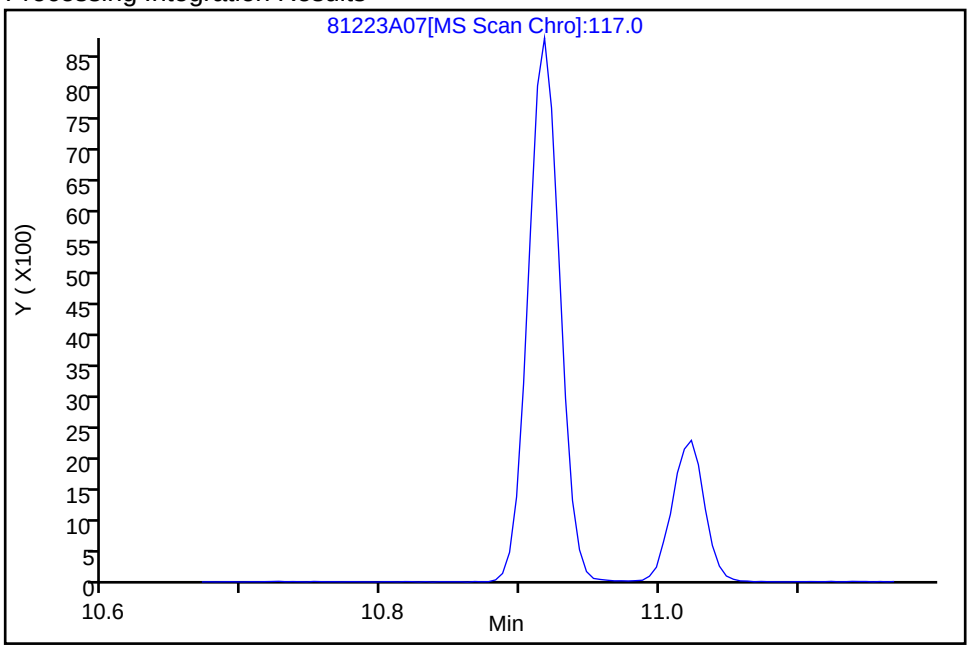
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D		
Injection Date:	23-Dec-2015 15:34:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5TC	Lab ID:	VSTD0.5TC
Sample Info:	8122315.b, VSTD0.5TC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

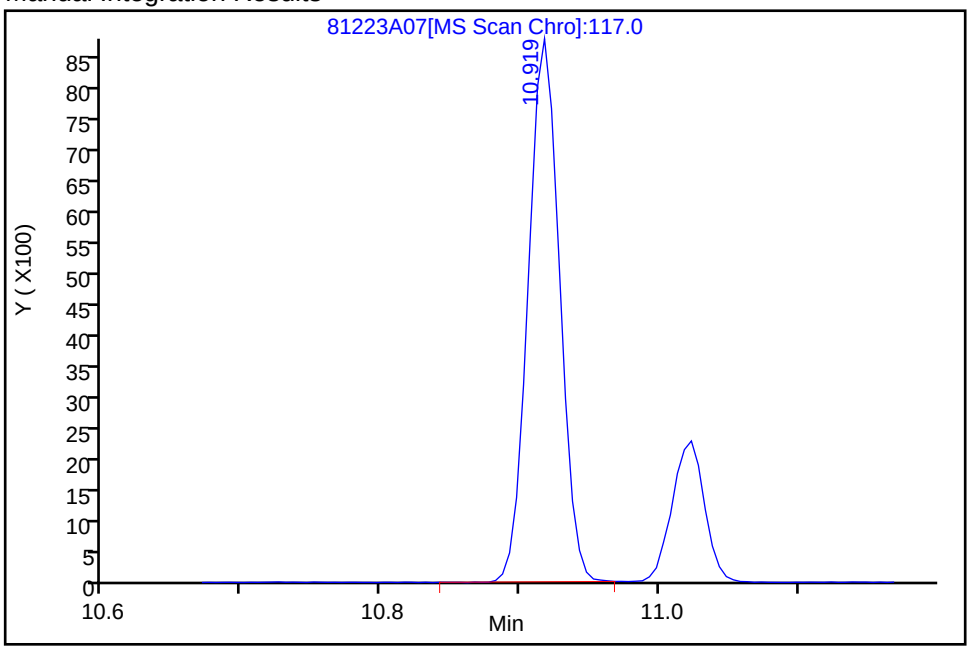
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	13574
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 15:56:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

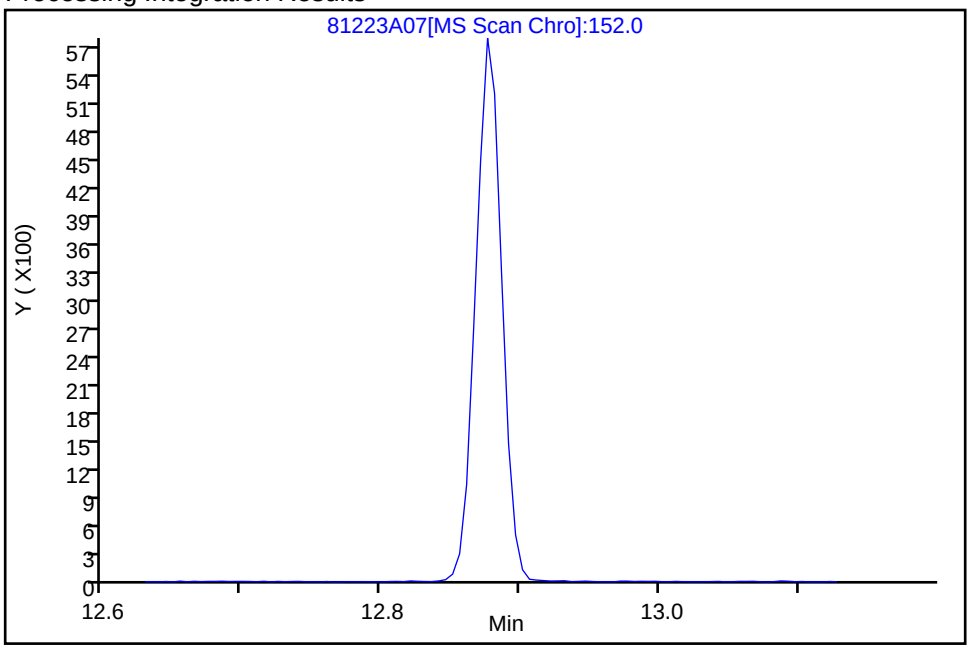
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D		
Injection Date:	23-Dec-2015 15:34:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5TC	Lab ID:	VSTD0.5TC
Sample Info:	8122315.b, VSTD0.5TC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

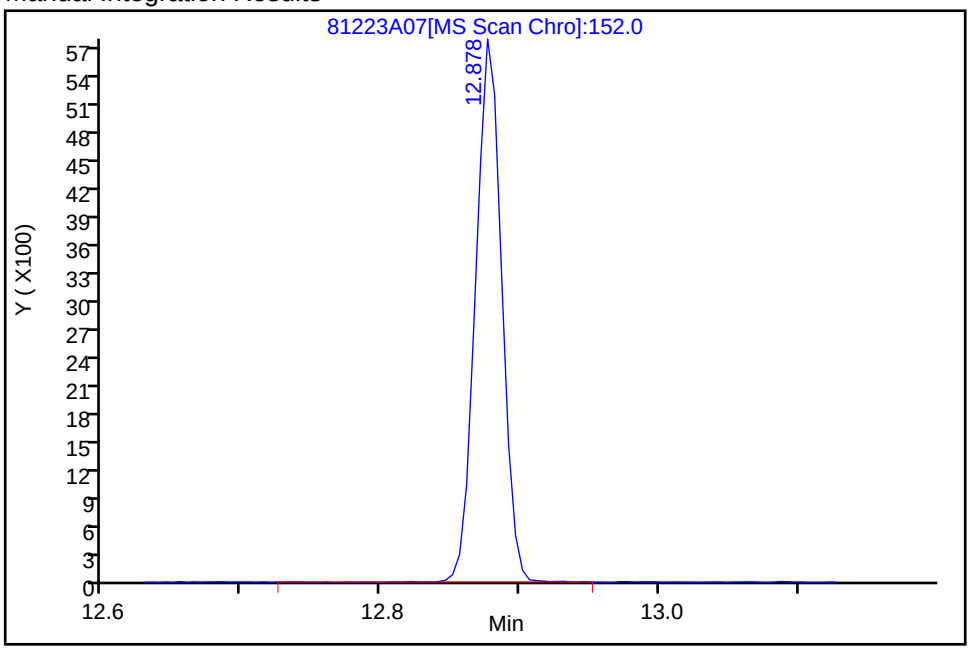
Not Detected
12.878

Processing Integration Results



Manual Integration Results

RT:	12.878
Area:	7395
Amount:	0.50000
Amount Units:	ug/L



Data Editor: pap, 23-Dec-2015 15:56:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

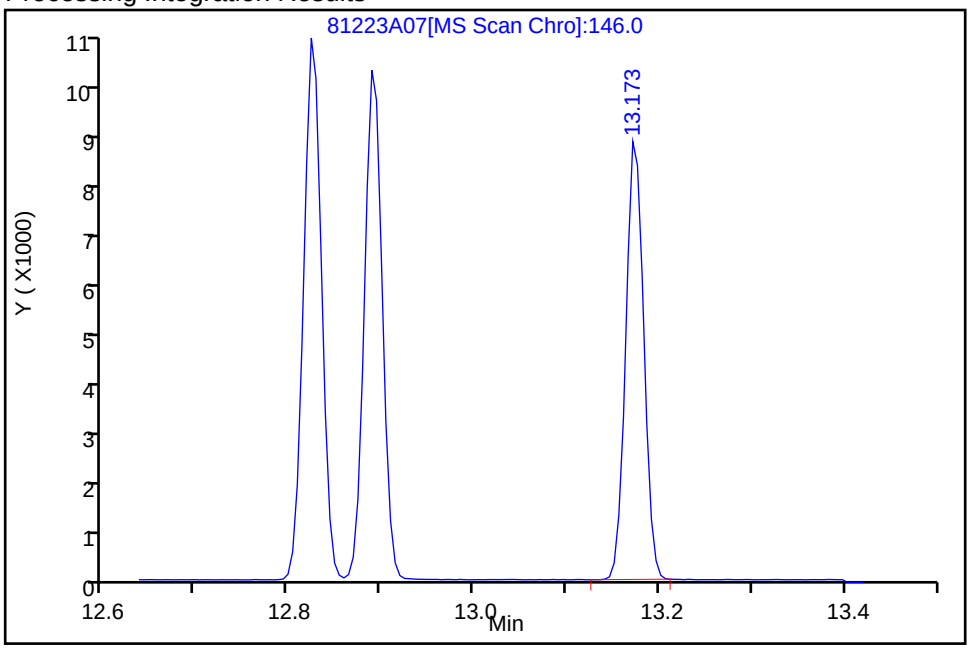
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D		
Injection Date:	23-Dec-2015 15:34:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5TC	Lab ID:	VSTD0.5TC
Sample Info:	8122315.b, VSTD0.5TC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

77 1,4-Dichlorobenzene, CAS: 106-46-7

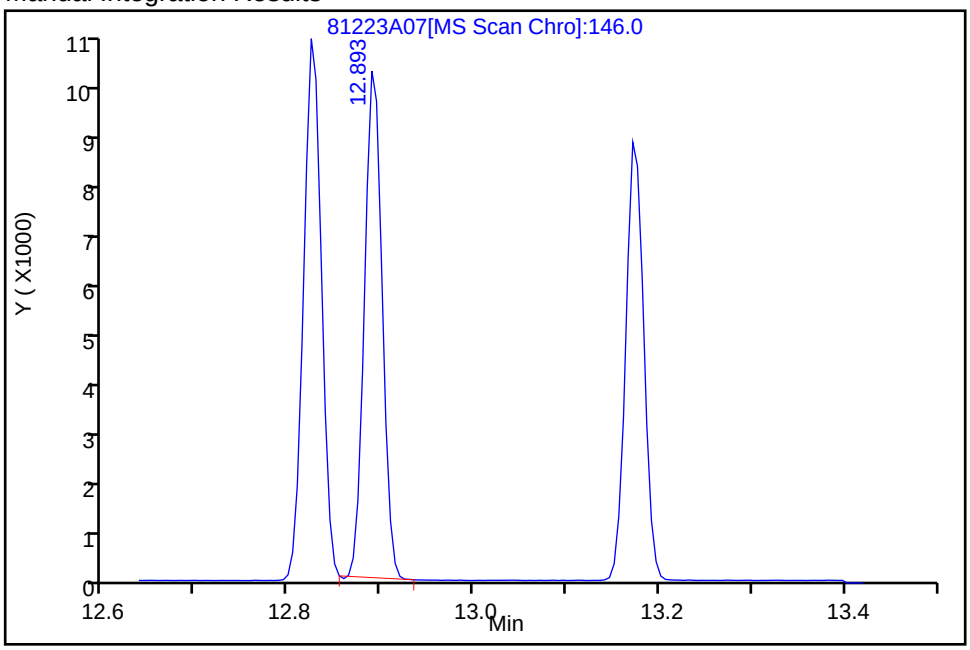
Processing Integration Results

RT: 13.173
Area: 11352
Amount: 0
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 12.893
Area: 12401
Amount: 0.54815
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 15:56:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

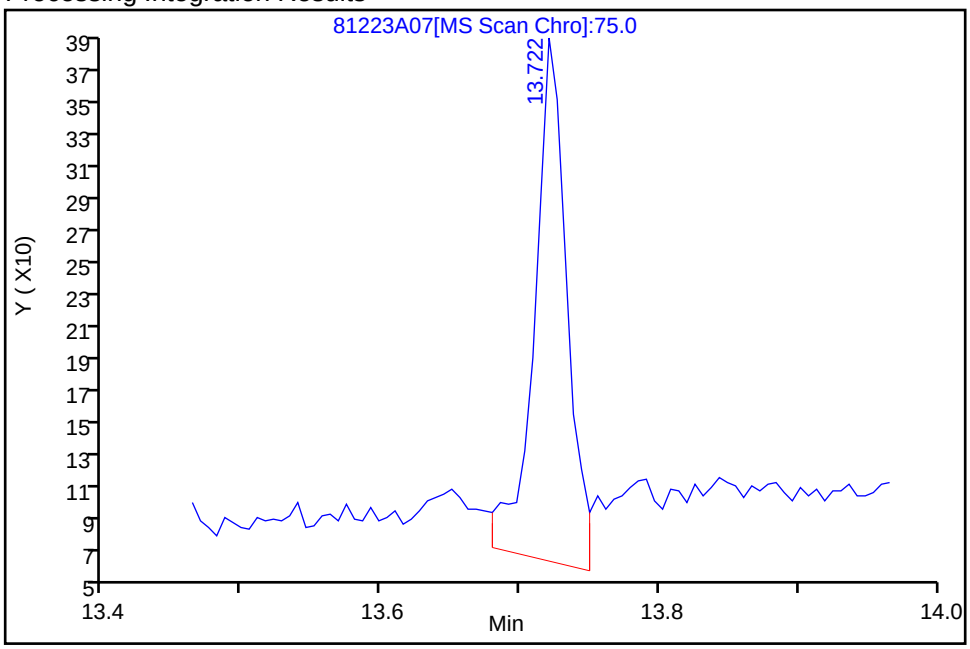
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A07.D		
Injection Date:	23-Dec-2015 15:34:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5TC	Lab ID:	VSTD0.5TC
Sample Info:	8122315.b, VSTD0.5TC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

80 1,2-Dibromo-3-chloropropane, CAS: 96-12-8

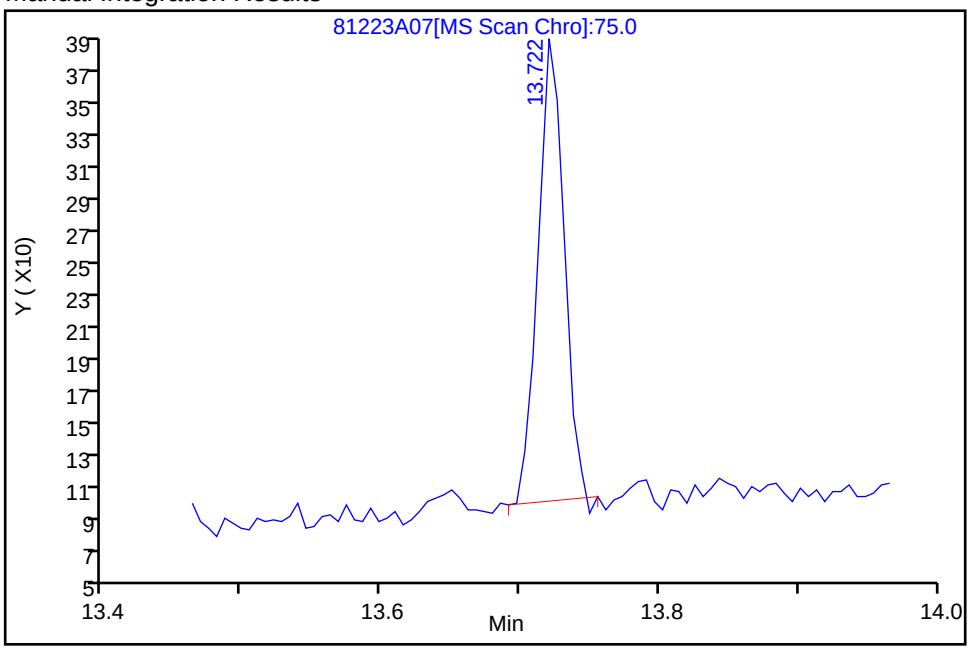
Processing Integration Results

RT: 13.722
Area: 489
Amount: 0
Amount Units: ug/L
Conc:



Manual Integration Results

RT: 13.722
Area: 356
Amount: 0.43531
Amount Units: ug/L



Data Editor: pap, 23-Dec-2015 15:56:30
Audit Action: Mint
Audit Reason: NOID

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: Low

Instrument ID: Agilent MSD8 Calibration Date: 01/05/2016 Time: 1340

Lab File ID: 80105A02 Init. Calib. Date(s): 12/23/2015 12/23/2015

EPA Sample No.: VSTD0.5VU Init. Calib. Time(s): 0037 0225

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 0.5	MIN RRF	%D	MAX %D
Chloroform	2.320	1.141	0.040	-50.8	20.0
Carbon tetrachloride	0.706	0.783	0.020	10.8	25.0
Benzene	1.582	1.690	0.300	6.8	20.0
1,2-Dichloroethane	0.378	0.333	0.010	-11.9	25.0
1,2-Dichloropropane	0.478	0.468	0.100	-2.1	20.0
Bromodichloromethane	0.497	0.505	0.090	1.6	20.0
cis-1,3-Dichloropropene	0.440	0.420	0.100	-4.5	20.0
1,1,2-Trichloroethane	0.212	0.188	0.040	-11.2	20.0
2-Hexanone	0.019	0.013	0.010	-30.0	40.0
1,2-Dibromoethane	0.203	0.178	0.010	-12.4	20.0
1,1,2,2-Tetrachloroethane	0.189	0.170	0.050	-10.0	25.0
1,4-Dichlorobenzene	1.530	1.325	0.700	-13.4	20.0
1,2-Dibromo-3-chloropropane	0.055	0.039	0.010	-28.6	40.0
1,2,4-Trichlorobenzene	1.050	0.898	0.300	-14.5	30.0
1,2,3-Trichlorobenzene	0.838	0.637	0.200	-24.1	40.0
Chloroform-d	0.805	0.796	0.010	-1.1	20.0
1,2-Dichloroethane-d4	0.254	0.215	0.010	-15.5	25.0
Benzene-d6	1.347	1.295	0.030	-3.9	20.0
1,2-Dichloropropane-d6	0.424	0.394	0.100	-7.1	20.0
trans-1,3-Dichloropropene-d4	0.303	0.281	0.010	-7.4	25.0
2-Hexanone-d5	0.033	0.020	0.010	-41.2	40.0
1,1,2,2-Tetrachloroethane-d2	0.184	0.162	0.010	-11.7	25.0
1,2-Dichlorobenzene-d4	0.860	0.753	0.060	-12.5	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A02.D		
Lab Sample ID:	VSTD0.5VU	Client Sample ID:	VSTD0.5VU
Injection Date:	05-Jan-2016 13:40:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8010516.b, VSTD0.5VU		
Method:	\\Organics\DD\chem\msd8.i\8010516.b\SIM2545-8.m		
Method Date:	05-Jan-2016 15:22:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	CCV	ALS Bottle:	2
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
$ 23 Chloroform-d	0.805337	0.796255	0.01	-1.1	20	99
24 Chloroform	2.319956	1.14127	0.04	* -50.8	20	49
27 Carbon Tetrachloride	0.706425	0.782883	0.02	10.8	25	111
$ 29 1,2-Dichloroethane-d4	0.254228	0.214879	0.01	-15.5	25	85
$ 30 Benzene-d6	1.347265	1.295279	0.03	-3.9	20	96
31 Benzene	1.582433	1.689523	0.3	6.8	20	107
32 1,2-Dichloroethane	0.377637	0.332739	0.01	-11.9	25	88
$ 35 1,2-Dichloropropane-d6	0.423737	0.393759	0.1	-7.1	20	93
37 1,2-Dichloropropane	0.47827	0.468	0.1	-2.1	20	98
39 Bromodichloromethane	0.497266	0.505396	0.09	1.6	20	102
40 cis-1,3-Dichloropropene	0.439676	0.419878	0.1	-4.5	20	95
$ 44 trans-1,3-Dichloropropen	0.302986	0.280696	0.01	-7.4	25	93
46 1,1,2-Trichloroethane	0.211501	0.187822	0.04	-11.2	20	89
$ 49 2-Hexanone-d5	0.033313	0.019589	0.01	* -41.2	40	59
50 2-Hexanone	0.018992	0.013289	0.01	-30	40	70
52 1,2-Dibromoethane	0.20276	0.177647	0.01	-12.4	20	88
$ 63 1,1,2,2-Tetrachloroethan	0.183509	0.162125	0.01	-11.7	25	88
64 1,1,2,2-Tetrachloroethan	0.188583	0.169707	0.05	-10	25	90
77 1,4-Dichlorobenzene	1.52964	1.325334	0.7	-13.4	20	87
$ 78 1,2-Dichlorobenzene-d4	0.860191	0.752913	0.06	-12.5	20	88
80 1,2-Dibromo-3-chloroprop	0.055294	0.039497	0.01	-28.6	40	71
82 1,2,4-Trichlorobenzene	1.050075	0.898215	0.3	-14.5	30	86
84 1,2,3-Trichlorobenzene	0.838497	0.636776	0.2	-24.1	40	76

Report Date: 06-Jan-2016 08:54:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A02.D		
Lab Sample ID:	VSTD0.5VU	Client Sample ID:	VSTD0.5VU
Injection Date:	05-Jan-2016 13:40:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8010516.b, VSTD0.5VU		
Method:	\\Organics\DD\chem\msd8.i\8010516.b\SIM2545-8.m		
Method Date:	05-Jan-2016 15:22:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	CCV	ALS Bottle:	2
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	05-Jan-2016 14:04:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 23 Chloroform-d	84.0	6.097	6.097	0.000	33469	0.50000	0.49436	
24 Chloroform	83.0	6.123	6.123	0.000	47971	0.50000	0.24597	
27 Carbon Tetrachloride	117.0	6.596	6.596	0.000	24159	0.50000	0.55412	
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	9032	0.50000	0.42261	
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	39971	0.50000	0.48071	
31 Benzene	78.0	6.865	6.865	0.000	52137	0.50000	0.53384	
32 1,2-Dichloroethane	62.0	6.882	6.882	0.000	13986	0.50000	0.44055	
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	42033	0.50000	0.50000	I
$ 35 1,2-Dichloropropane-d6	67.0	7.895	7.895	0.000	12151	0.50000	0.46463	M
37 1,2-Dichloropropane	63.0	8.020	8.020	0.000	14442	0.50000	0.48926	
39 Bromodichloromethane	83.0	8.384	8.384	0.000	15596	0.50000	0.50817	
40 cis-1,3-Dichloropropene	75.0	8.996	8.996	0.000	12957	0.50000	0.47748	
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	8662	0.50000	0.46322	
46 1,1,2-Trichloroethane	97.0	9.906	9.906	0.000	5796	0.50000	0.44402	
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	6045	5.0000	2.9402	
50 2-Hexanone	43.0	10.184	10.184	0.000	4101	5.0000	3.4988	M
52 1,2-Dibromoethane	107.0	10.454	10.454	0.000	5482	0.50000	0.43807	M
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	30859	0.50000	0.50000	I
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	5003	0.50000	0.44173	
64 1,1,2,2-Tetrachloroethane	83.0	12.069	12.069	0.000	5237	0.50000	0.44995	
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	17419	0.50000	0.50000	I
77 1,4-Dichlorobenzene	146.0	13.173	13.173	0.000	23086	0.50000	0.43322	
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	13115	0.50000	0.43764	
80 1,2-Dibromo-3-chloropropane	75.0	13.722	13.722	0.000	688	0.50000	0.35715	
82 1,2,4-Trichlorobenzene	180.0	14.302	14.302	0.000	15646	0.50000	0.42769	
84 1,2,3-Trichlorobenzene	180.0	14.668	14.668	0.000	11092	0.50000	0.37971	

QC Flag Legend

Processing Flags

I - Istd Fails Area Recovery Test

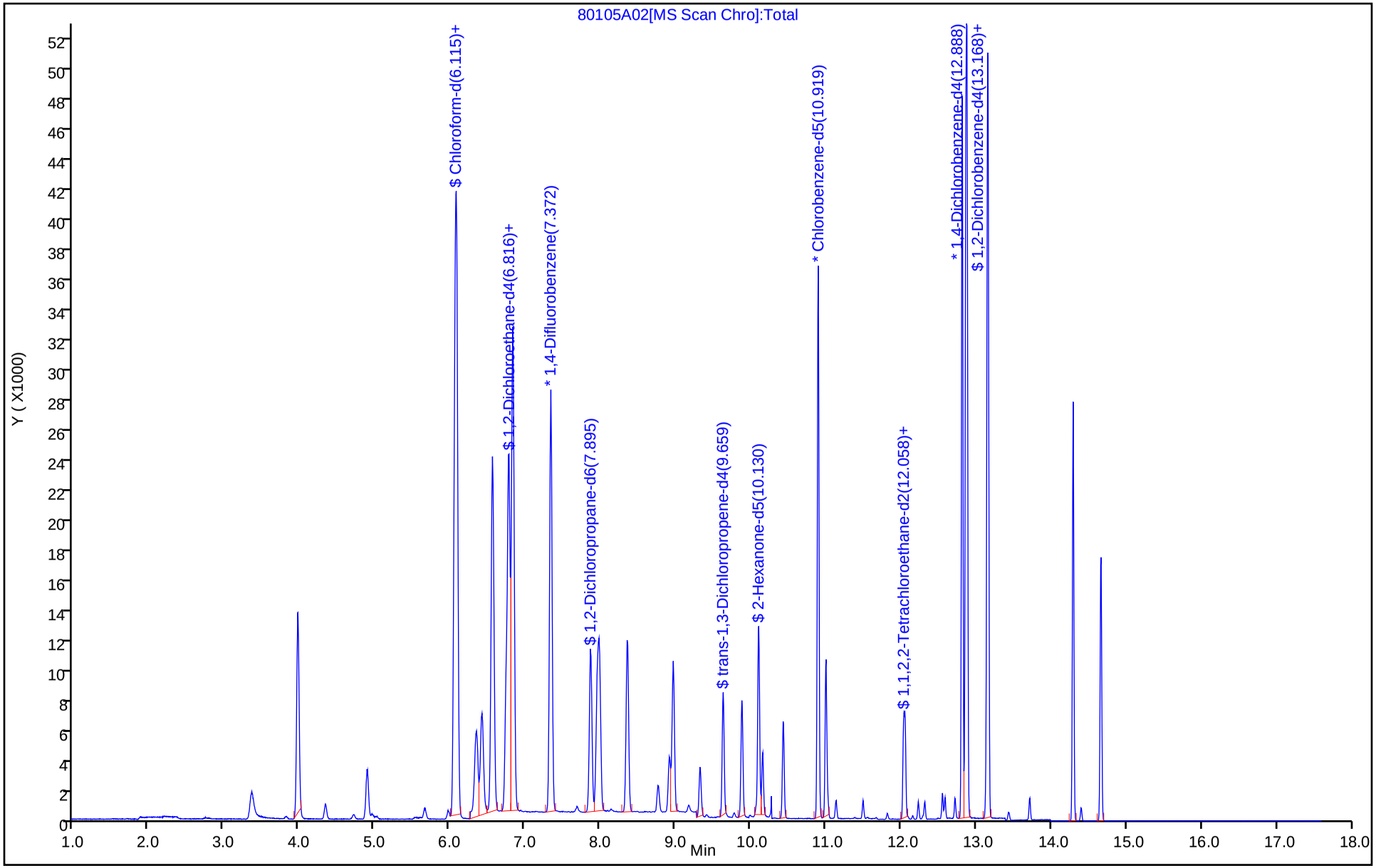
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 06-Jan-2016 08:54:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A02.D				
Injection Date:	05-Jan-2016 13:40:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VSTD0.5VU	Lab ID:	VSTD0.5VU		
Sample Info:	8010516.b, VSTD0.5VU				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 06-Jan-2016 08:54:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

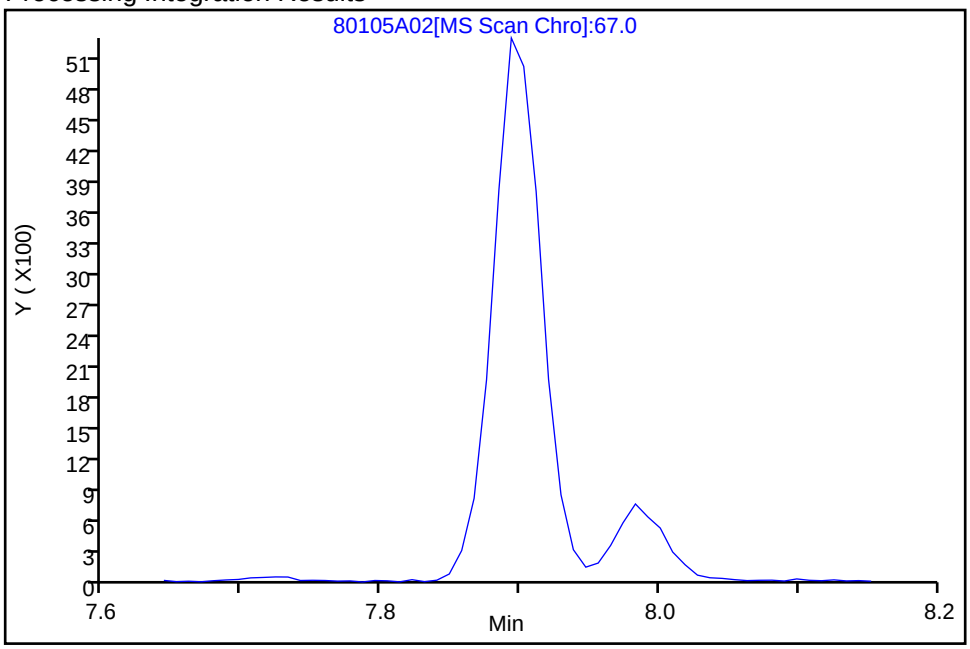
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A02.D		
Injection Date:	05-Jan-2016 13:40:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5VU	Lab ID:	VSTD0.5VU
Sample Info:	8010516.b, VSTD0.5VU		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

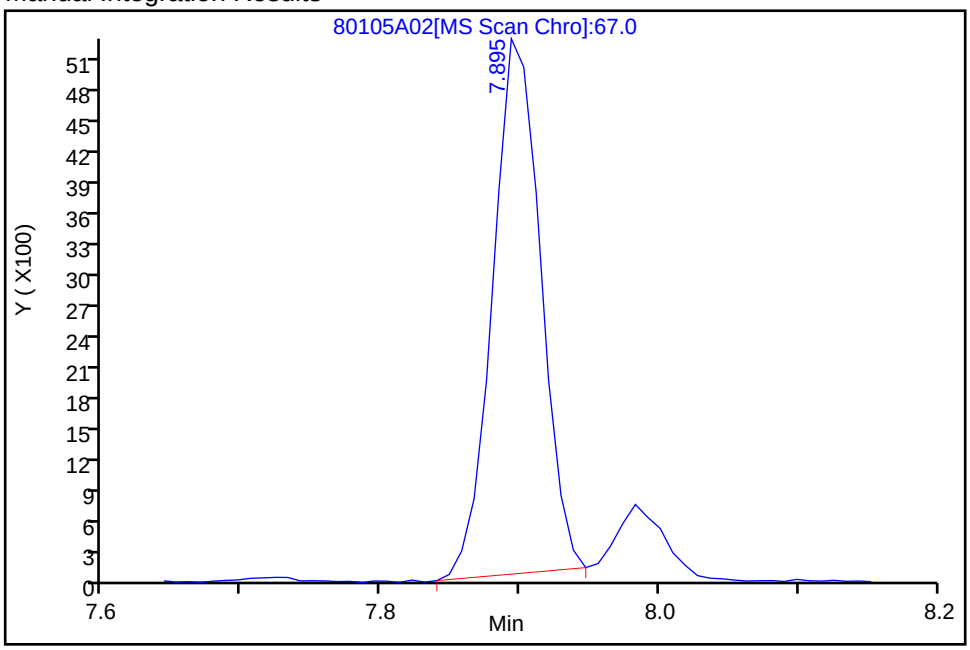
Not Detected
7.895

Processing Integration Results



Manual Integration Results

RT:	7.895
Area:	12151
Amount:	0.46463
Amount Units:	ug/L



Data Editor: all, 05-Jan-2016 14:04:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

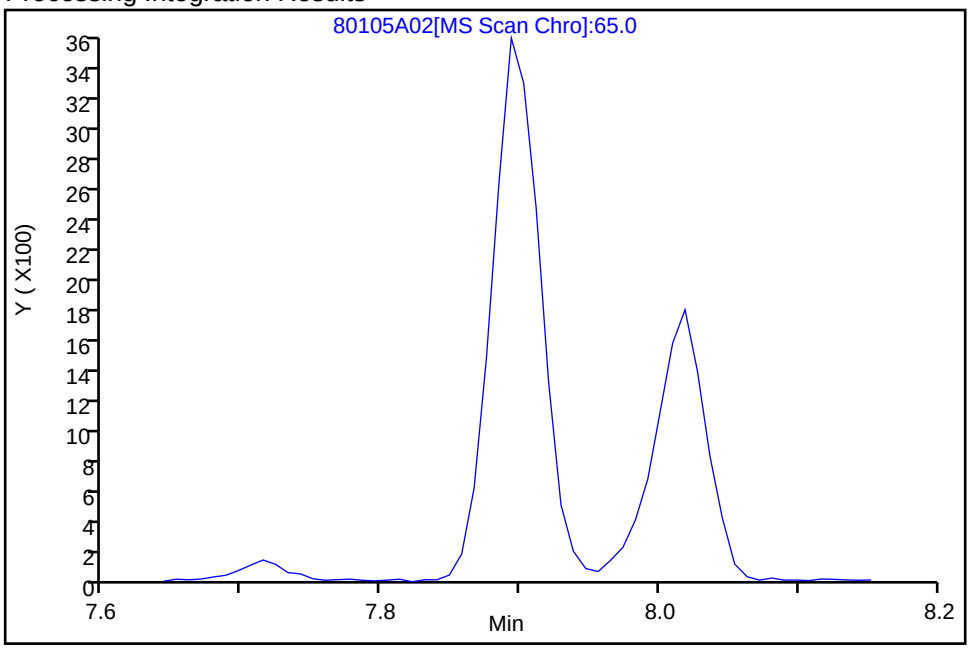
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A02.D		
Injection Date:	05-Jan-2016 13:40:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5VU	Lab ID:	VSTD0.5VU
Sample Info:	8010516.b, VSTD0.5VU		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

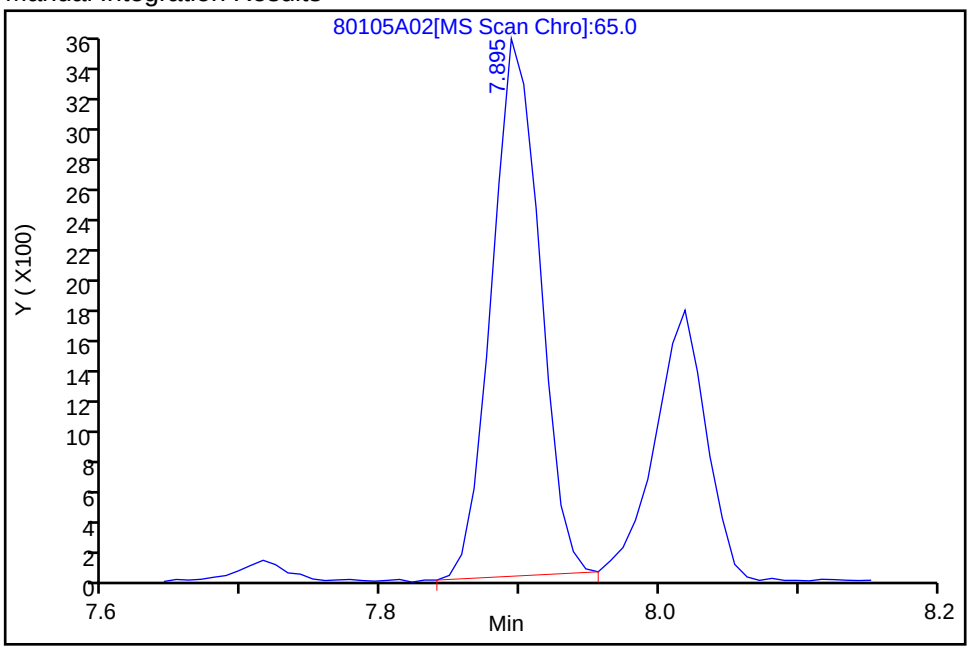
Not Detected
7.895

Processing Integration Results



Manual Integration Results

RT:	7.895
Area:	8250
Amount:	0.46463
Amount Units:	ug/L



Data Editor: all, 05-Jan-2016 14:04:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

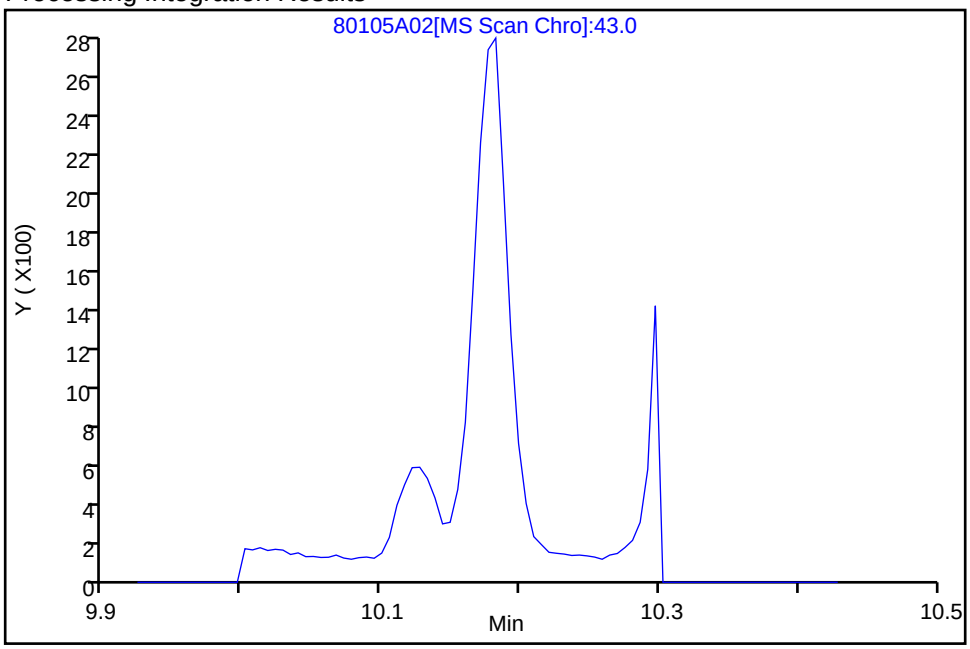
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A02.D		
Injection Date:	05-Jan-2016 13:40:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5VU	Lab ID:	VSTD0.5VU
Sample Info:	8010516.b, VSTD0.5VU		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

50 2-Hexanone, CAS: 591-78-6

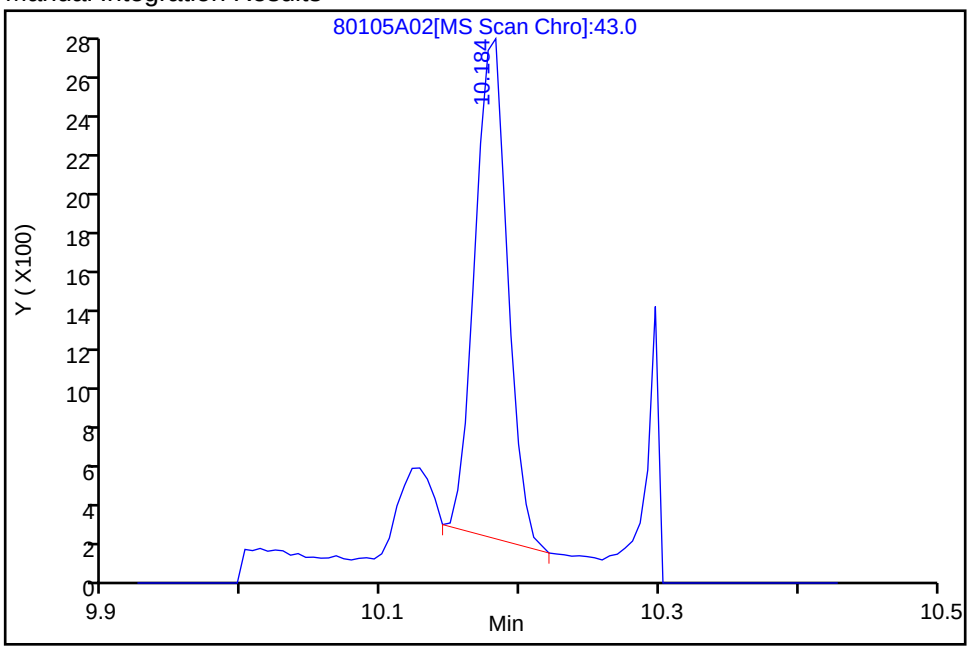
Not Detected
10.184

Processing Integration Results



Manual Integration Results

RT: 10.184
Area: 4101
Amount: 3.4988
Amount Units: ug/L



Data Editor: all, 05-Jan-2016 14:05:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:30 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

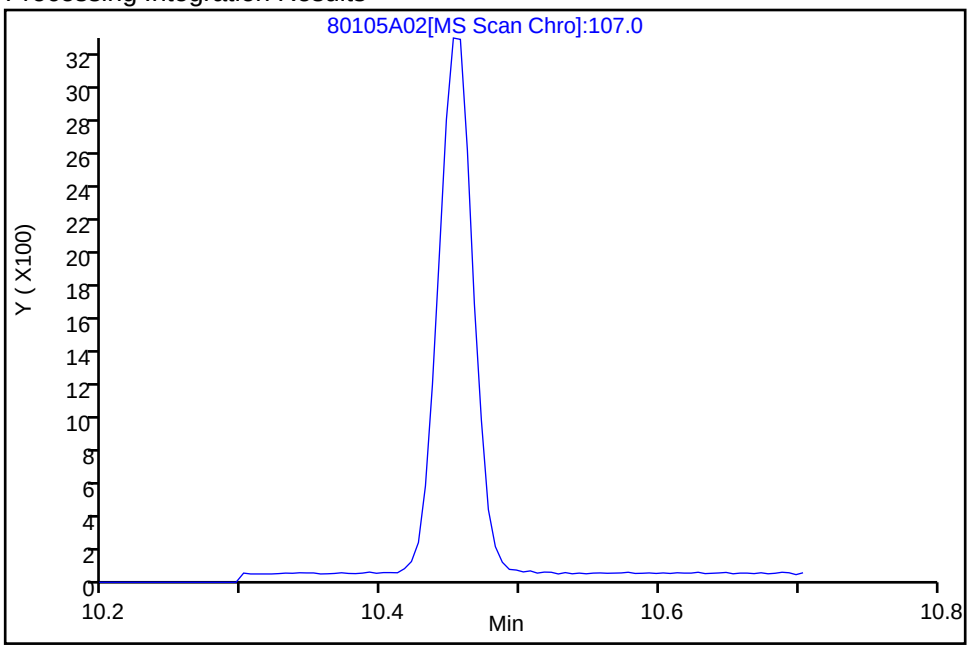
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A02.D		
Injection Date:	05-Jan-2016 13:40:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5VU	Lab ID:	VSTD0.5VU
Sample Info:	8010516.b, VSTD0.5VU		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

52 1,2-Dibromoethane, CAS: 106-93-4

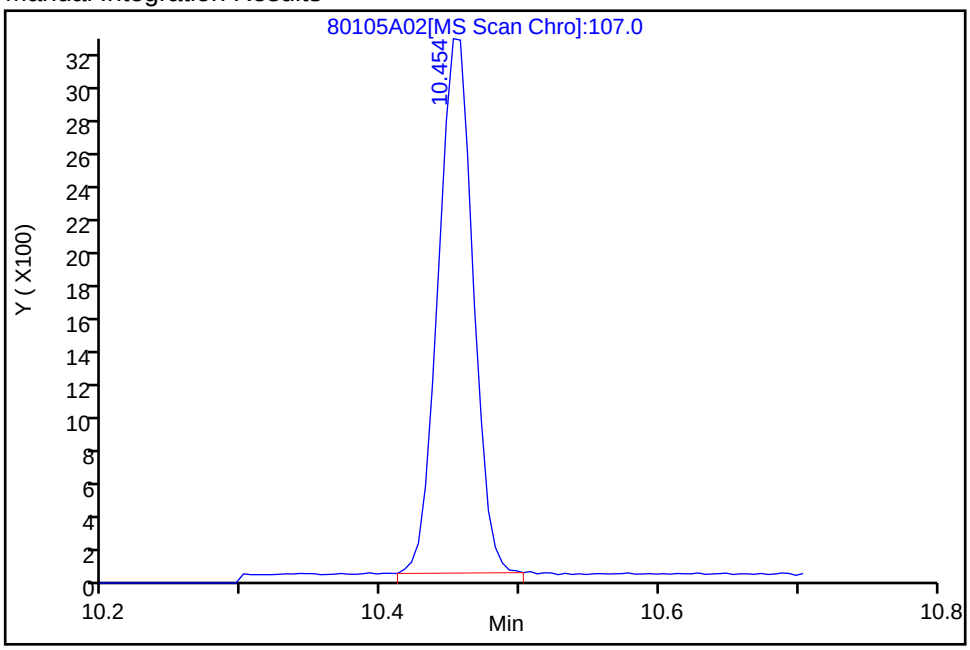
Not Detected
10.454

Processing Integration Results



Manual Integration Results

RT:	10.454
Area:	5482
Amount:	0.43807
Amount Units:	ug/L



Data Editor: all, 05-Jan-2016 14:05:30
Audit Action: Mint
Audit Reason: NOID

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: Low

Instrument ID: Agilent MSD8 Calibration Date: 01/05/2016 Time: 2238

Lab File ID: 80105A21 Init. Calib. Date(s): 12/23/2015 12/23/2015

EPA Sample No.: VSTD0.5VX Init. Calib. Time(s): 0037 0225

GC Column: DB-624 ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) N Purge Volume: 25.0 (mL)

COMPOUND	$\overline{RRF}$	RRF 0.5	MIN RRF	%D	MAX %D
Chloroform	2.320	1.308	0.010	-43.6	50.0
Carbon tetrachloride	0.706	0.767	0.010	8.5	50.0
Benzene	1.582	1.664	0.010	5.2	50.0
1,2-Dichloroethane	0.378	0.360	0.010	-4.8	50.0
1,2-Dichloropropane	0.478	0.470	0.010	-1.8	50.0
Bromodichloromethane	0.497	0.519	0.010	4.4	50.0
cis-1,3-Dichloropropene	0.440	0.425	0.010	-3.4	50.0
1,1,2-Trichloroethane	0.212	0.194	0.010	-8.2	50.0
2-Hexanone	0.019	0.012	0.010	-35.8	50.0
1,2-Dibromoethane	0.203	0.182	0.010	-10.4	50.0
1,1,2,2-Tetrachloroethane	0.189	0.166	0.010	-12.1	50.0
1,4-Dichlorobenzene	1.530	1.698	0.010	11.0	50.0
1,2-Dibromo-3-chloropropane	0.055	0.060	0.010	9.4	50.0
1,2,4-Trichlorobenzene	1.050	0.960	0.010	-8.6	50.0
1,2,3-Trichlorobenzene	0.838	0.706	0.010	-15.8	50.0
Chloroform-d	0.805	0.833	0.010	3.4	50.0
1,2-Dichloroethane-d4	0.254	0.224	0.010	-12.0	50.0
Benzene-d6	1.347	1.303	0.010	-3.3	50.0
1,2-Dichloropropane-d6	0.424	0.403	0.010	-4.9	50.0
trans-1,3-Dichloropropene-d4	0.303	0.282	0.010	-6.8	50.0
2-Hexanone-d5	0.033	0.034	0.010	1.0	50.0
1,1,2,2-Tetrachloroethane-d2	0.184	0.170	0.010	-7.5	50.0
1,2-Dichlorobenzene-d4	0.860	0.853	0.010	-0.8	50.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A21.D		
Lab Sample ID:	VSTD0.5VX	Client Sample ID:	VSTD0.5VX
Injection Date:	05-Jan-2016 22:38:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8010516.b, VSTD0.5VX		
Method:	\\Organics\DD\chem\msd8.i\8010516.b\SIM2545-8e.m		
Method Date:	06-Jan-2016 07:36:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	CCV	ALS Bottle:	20
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
$ 23 Chloroform-d	0.805337	0.832563	0.01	3.4	50	103
24 Chloroform	2.319956	1.307515	0.01	-43.6	50	56
27 Carbon Tetrachloride	0.706425	0.766566	0.01	8.5	50	109
$ 29 1,2-Dichloroethane-d4	0.254228	0.223682	0.01	-12	50	88
$ 30 Benzene-d6	1.347265	1.302665	0.01	-3.3	50	97
31 Benzene	1.582433	1.664267	0.01	5.2	50	105
32 1,2-Dichloroethane	0.377637	0.359564	0.01	-4.8	50	95
$ 35 1,2-Dichloropropane-d6	0.423737	0.402914	0.01	-4.9	50	95
37 1,2-Dichloropropane	0.47827	0.469747	0.01	-1.8	50	98
39 Bromodichloromethane	0.497266	0.519086	0.01	4.4	50	104
40 cis-1,3-Dichloropropene	0.439676	0.424814	0.01	-3.4	50	97
$ 44 trans-1,3-Dichloropropen	0.302986	0.282293	0.01	-6.8	50	93
46 1,1,2-Trichloroethane	0.211501	0.194085	0.01	-8.2	50	92
$ 49 2-Hexanone-d5	0.033313	0.033643	0.01	1	50	101
50 2-Hexanone	0.018992	0.012197	0.01	-35.8	50	64
52 1,2-Dibromoethane	0.20276	0.181608	0.01	-10.4	50	90
$ 63 1,1,2,2-Tetrachloroethan	0.183509	0.169742	0.01	-7.5	50	92
64 1,1,2,2-Tetrachloroethan	0.188583	0.165685	0.01	-12.1	50	88
77 1,4-Dichlorobenzene	1.52964	1.698456	0.01	11	50	111
$ 78 1,2-Dichlorobenzene-d4	0.860191	0.853317	0.01	-0.8	50	99
80 1,2-Dibromo-3-chloroprop	0.055294	0.060492	0.01	9.4	50	109
82 1,2,4-Trichlorobenzene	1.050075	0.95995	0.01	-8.6	50	91
84 1,2,3-Trichlorobenzene	0.838497	0.705882	0.01	-15.8	50	84

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Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A21.D		
Lab Sample ID:	VSTD0.5VX	Client Sample ID:	VSTD0.5VX
Injection Date:	05-Jan-2016 22:38:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8010516.b, VSTD0.5VX		
Method:	\\Organics\DD\chem\msd8.i\8010516.b\SIM2545-8e.m		
Method Date:	06-Jan-2016 07:36:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	CCV	ALS Bottle:	20
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	06-Jan-2016 07:32:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 23 Chloroform-d	84.0	6.100	6.100	0.000	25593	0.50000	0.51690	
24 Chloroform	83.0	6.123	6.123	0.000	40193	0.50000	0.28180	
27 Carbon Tetrachloride	117.0	6.604	6.604	0.000	17572	0.50000	0.54257	
$ 29 1,2-Dichloroethane-d4	65.0	6.775	6.775	0.000	6876	0.50000	0.43992	
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	29861	0.50000	0.48345	
31 Benzene	78.0	6.865	6.865	0.000	38150	0.50000	0.52586	
32 1,2-Dichloroethane	62.0	6.881	6.881	0.000	11053	0.50000	0.47607	
* 33 1,4-Difluorobenzene	114.0	7.371	7.371	0.000	30740	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.904	7.904	0.000	9236	0.50000	0.47543	M
37 1,2-Dichloropropane	63.0	8.019	8.019	0.000	10768	0.50000	0.49109	
39 Bromodichloromethane	83.0	8.383	8.383	0.000	11899	0.50000	0.52194	
40 cis-1,3-Dichloropropene	75.0	8.996	8.996	0.000	9738	0.50000	0.48310	
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.658	9.658	0.000	6471	0.50000	0.46585	
46 1,1,2-Trichloroethane	97.0	9.911	9.911	0.000	4449	0.50000	0.45883	
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	7712	5.0000	5.0496	
50 2-Hexanone	43.0	10.184	10.184	0.000	2796	5.0000	3.2113	M
52 1,2-Dibromoethane	107.0	10.454	10.454	0.000	4163	0.50000	0.44784	M
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	22923	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	3891	0.50000	0.46249	
64 1,1,2,2-Tetrachloroethane	83.0	12.074	12.074	0.000	3798	0.50000	0.43929	
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	11985	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0	12.893	12.893	0.000	20356	0.50000	0.55518	
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	10227	0.50000	0.49600	
80 1,2-Dibromo-3-chloropropane	75.0	13.722	13.722	0.000	725	0.50000	0.54700	
82 1,2,4-Trichlorobenzene	180.0	14.302	14.302	0.000	11505	0.50000	0.45709	
84 1,2,3-Trichlorobenzene	180.0	14.668	14.668	0.000	8460	0.50000	0.42092	

QC Flag Legend

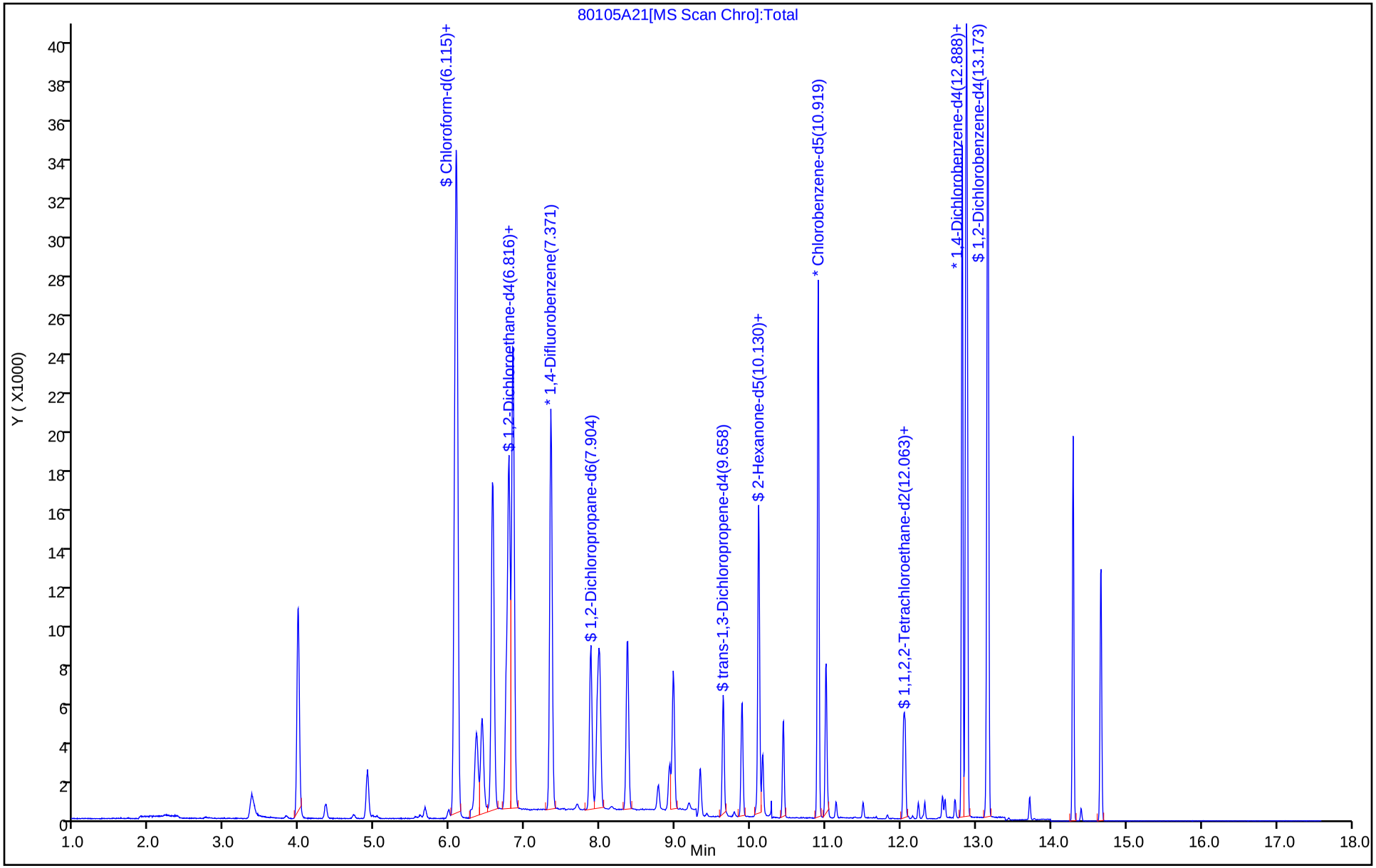
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 06-Jan-2016 08:54:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A21.D				
Injection Date:	05-Jan-2016 22:38:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VSTD0.5VX	Lab ID:	VSTD0.5VX		
Sample Info:	8010516.b, VSTD0.5VX				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 06-Jan-2016 08:54:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

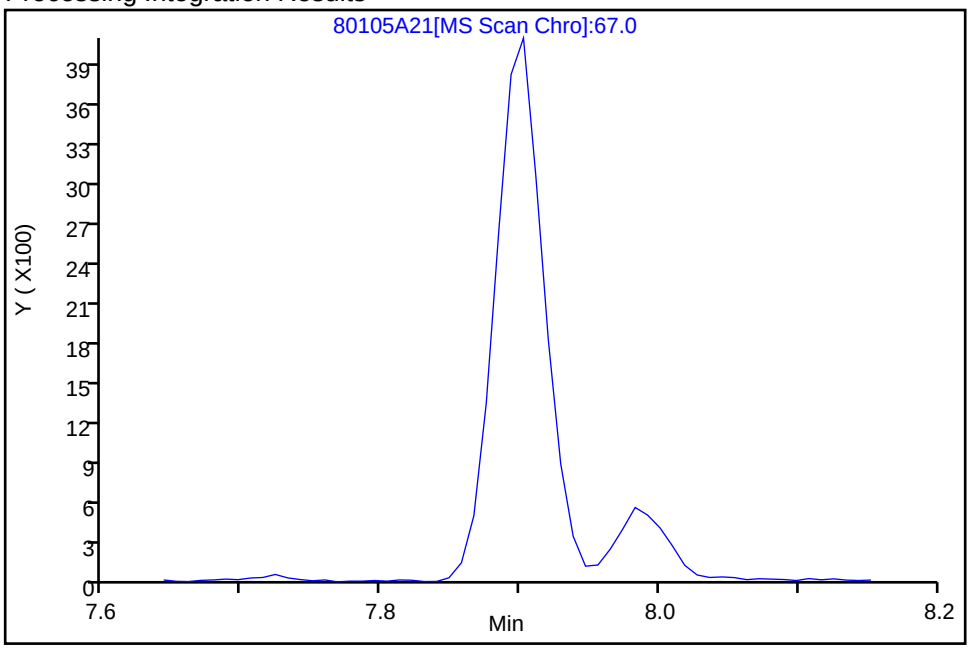
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A21.D		
Injection Date:	05-Jan-2016 22:38:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5VX	Lab ID:	VSTD0.5VX
Sample Info:	8010516.b, VSTD0.5VX		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

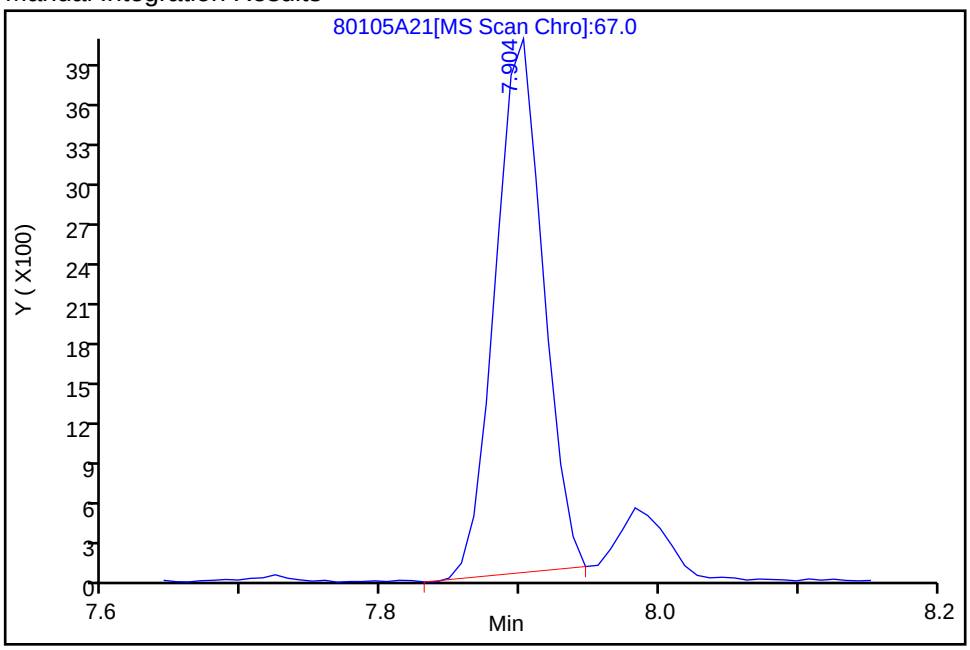
Not Detected
7.904

Processing Integration Results



Manual Integration Results

RT:	7.904
Area:	9236
Amount:	0.47543
Amount Units:	ug/L



Data Editor: all, 06-Jan-2016 07:32:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

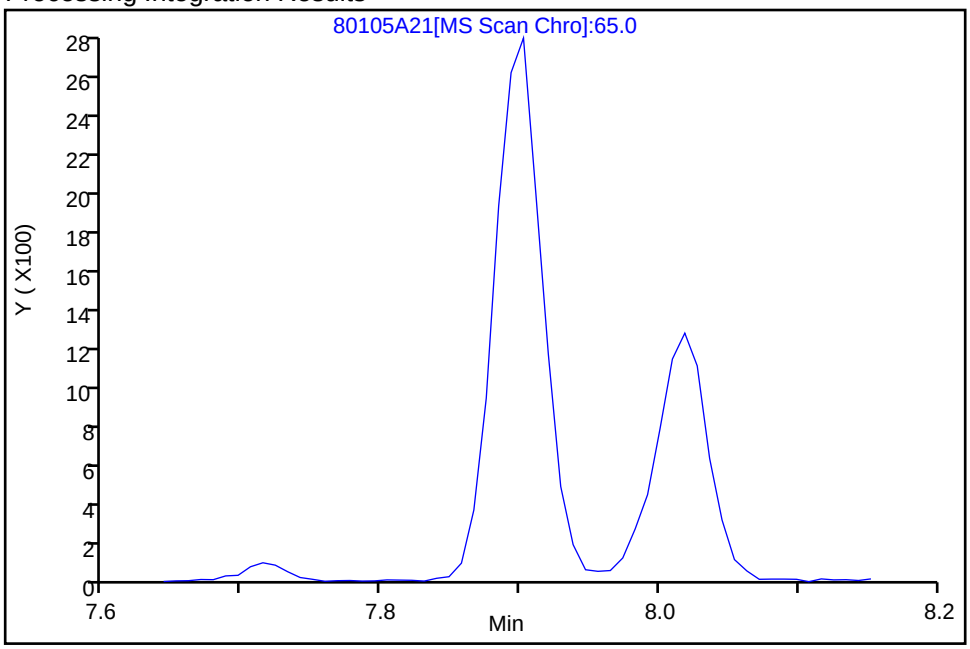
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A21.D		
Injection Date:	05-Jan-2016 22:38:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5VX	Lab ID:	VSTD0.5VX
Sample Info:	8010516.b, VSTD0.5VX		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

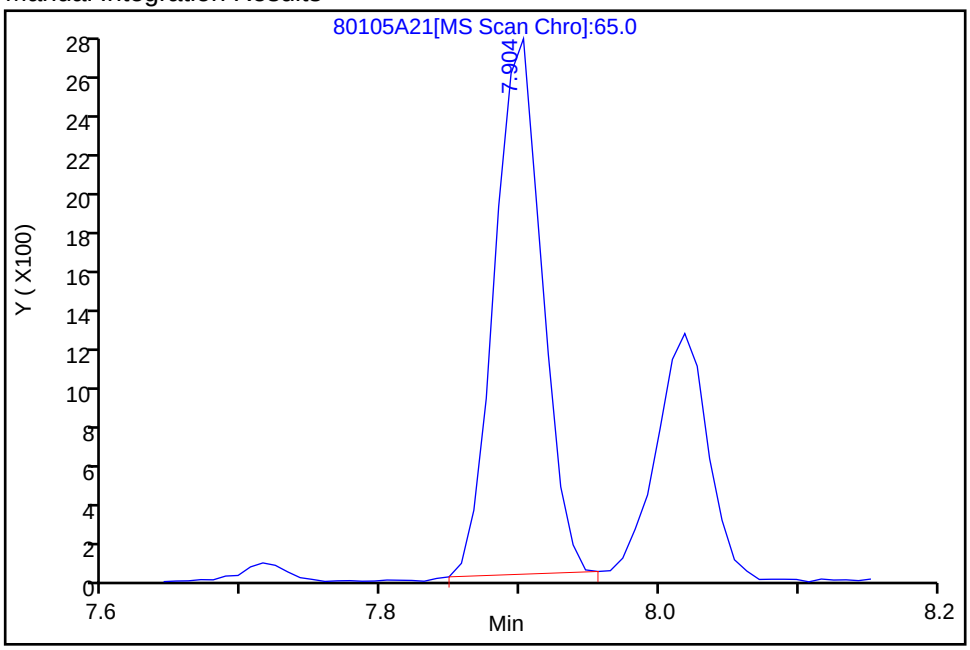
Not Detected
7.904

Processing Integration Results



Manual Integration Results

RT:	7.904
Area:	6359
Amount:	0.47543
Amount Units:	ug/L



Data Editor: all, 06-Jan-2016 07:32:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

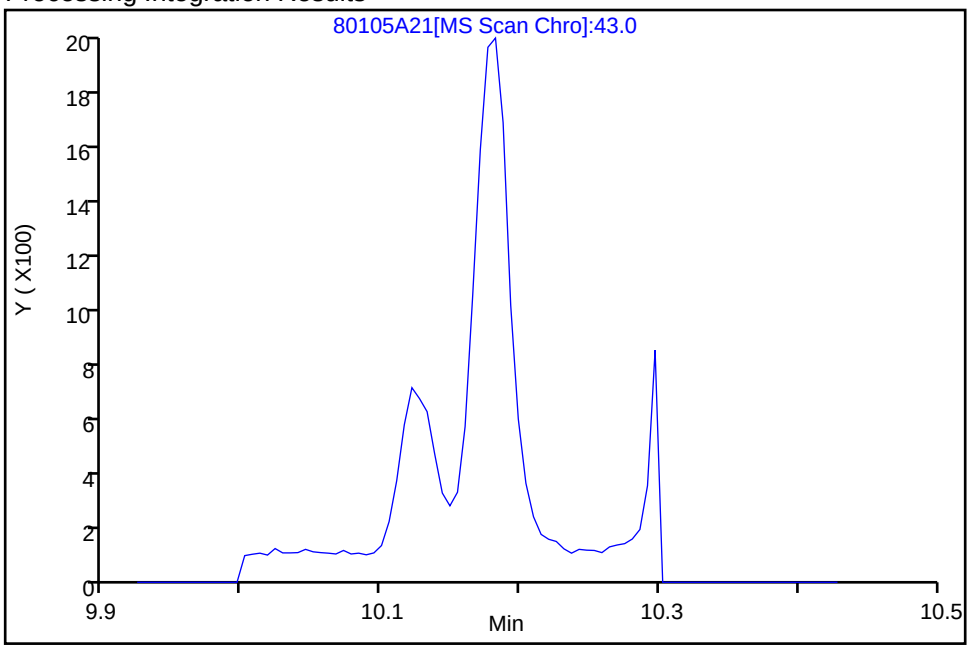
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A21.D		
Injection Date:	05-Jan-2016 22:38:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5VX	Lab ID:	VSTD0.5VX
Sample Info:	8010516.b, VSTD0.5VX		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

50 2-Hexanone, CAS: 591-78-6

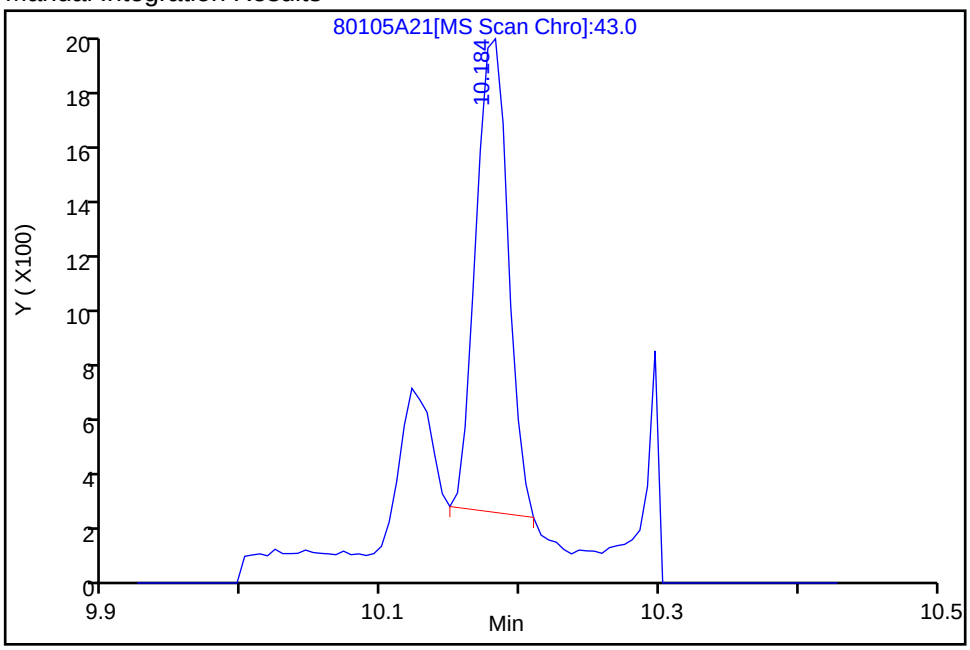
Not Detected
10.184

Processing Integration Results



Manual Integration Results

RT:	10.184
Area:	2796
Amount:	3.2113
Amount Units:	ug/L



Data Editor: all, 06-Jan-2016 07:32:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

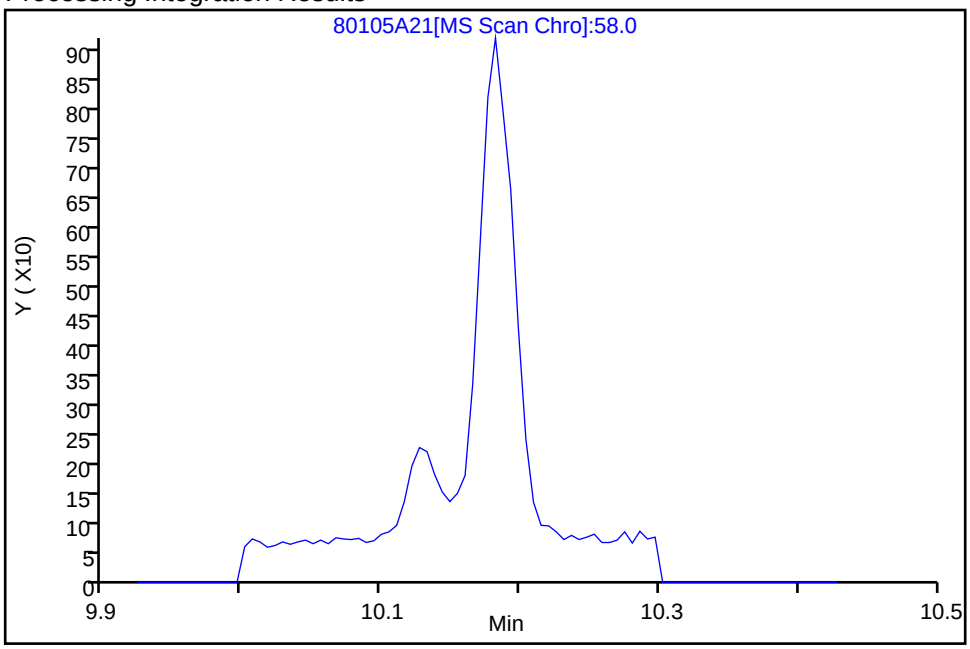
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A21.D		
Injection Date:	05-Jan-2016 22:38:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5VX	Lab ID:	VSTD0.5VX
Sample Info:	8010516.b, VSTD0.5VX		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

50 2-Hexanone, CAS: 591-78-6

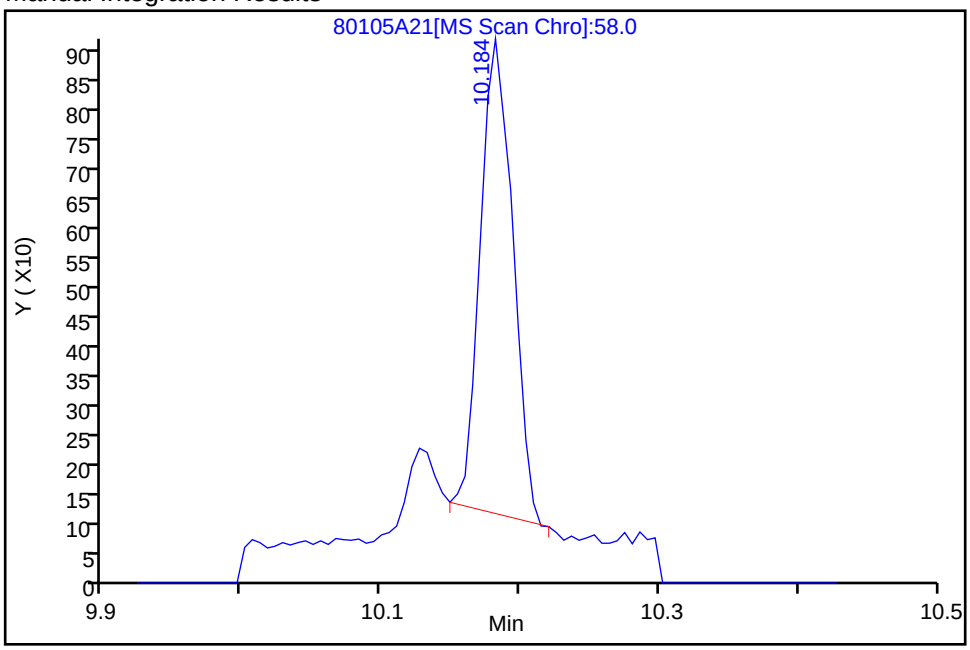
Not Detected
10.184

Processing Integration Results



Manual Integration Results

RT:	10.184
Area:	1286
Amount:	3.2113
Amount Units:	ug/L



Data Editor: all, 06-Jan-2016 07:32:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

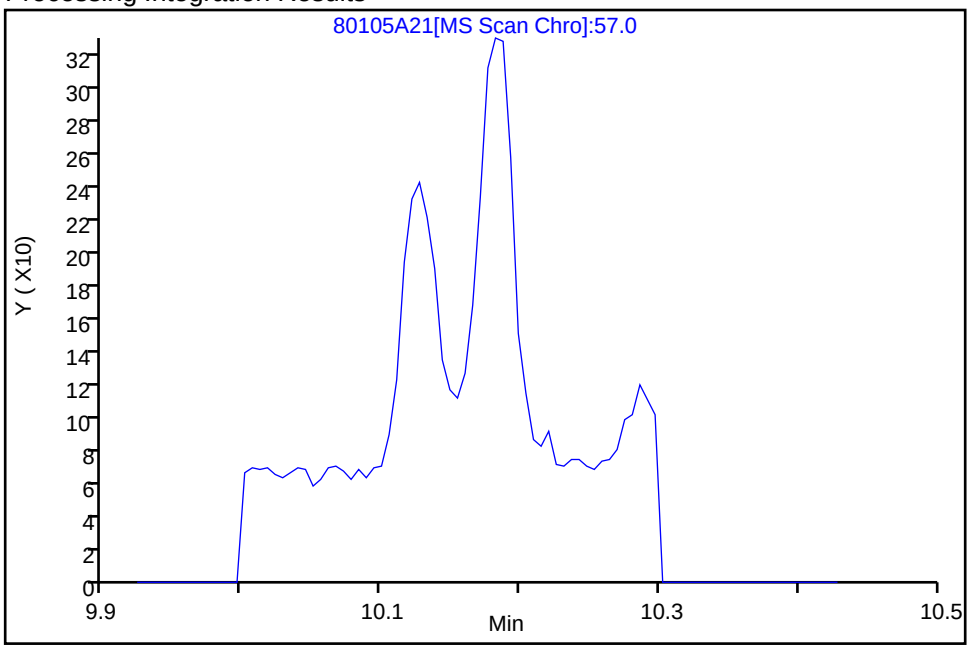
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A21.D		
Injection Date:	05-Jan-2016 22:38:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5VX	Lab ID:	VSTD0.5VX
Sample Info:	8010516.b, VSTD0.5VX		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

50 2-Hexanone, CAS: 591-78-6

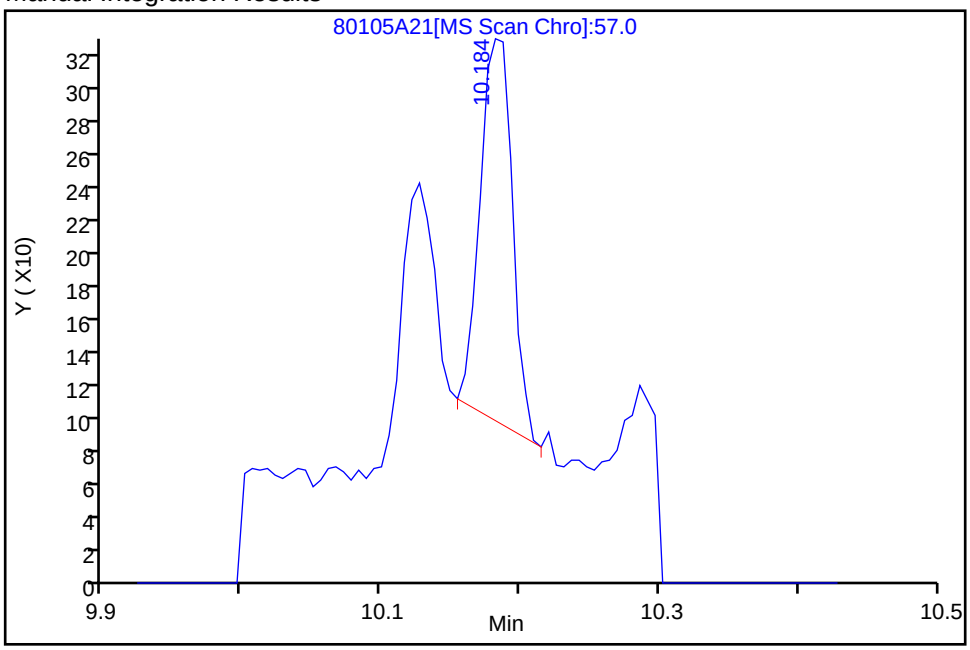
Not Detected
10.184

Processing Integration Results



Manual Integration Results

RT: 10.184
Area: 368
Amount: 3.2113
Amount Units: ug/L



Data Editor: all, 06-Jan-2016 07:32:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

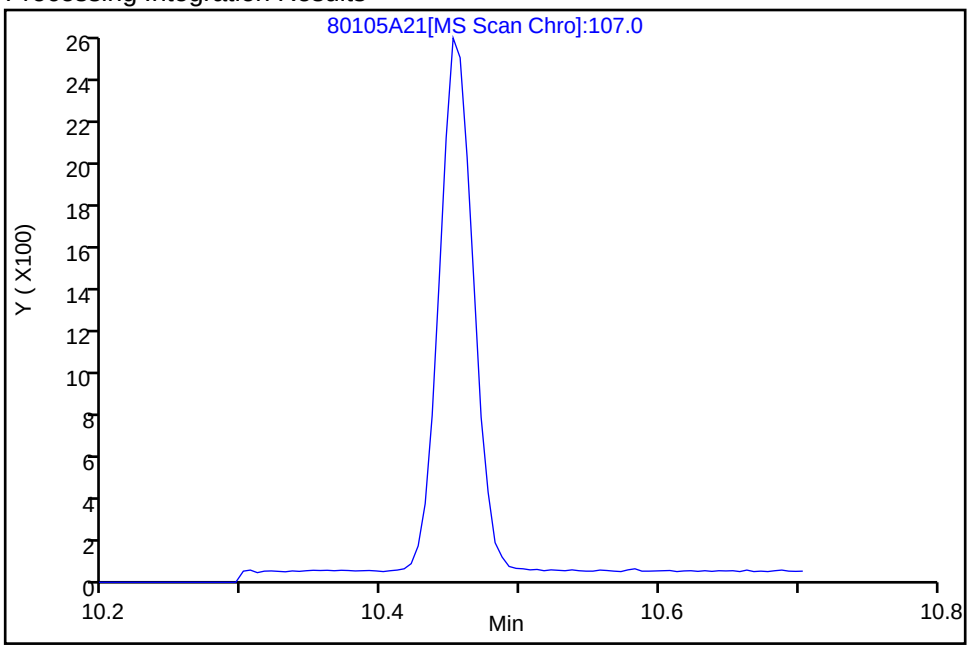
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A21.D		
Injection Date:	05-Jan-2016 22:38:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5VX	Lab ID:	VSTD0.5VX
Sample Info:	8010516.b, VSTD0.5VX		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

52 1,2-Dibromoethane, CAS: 106-93-4

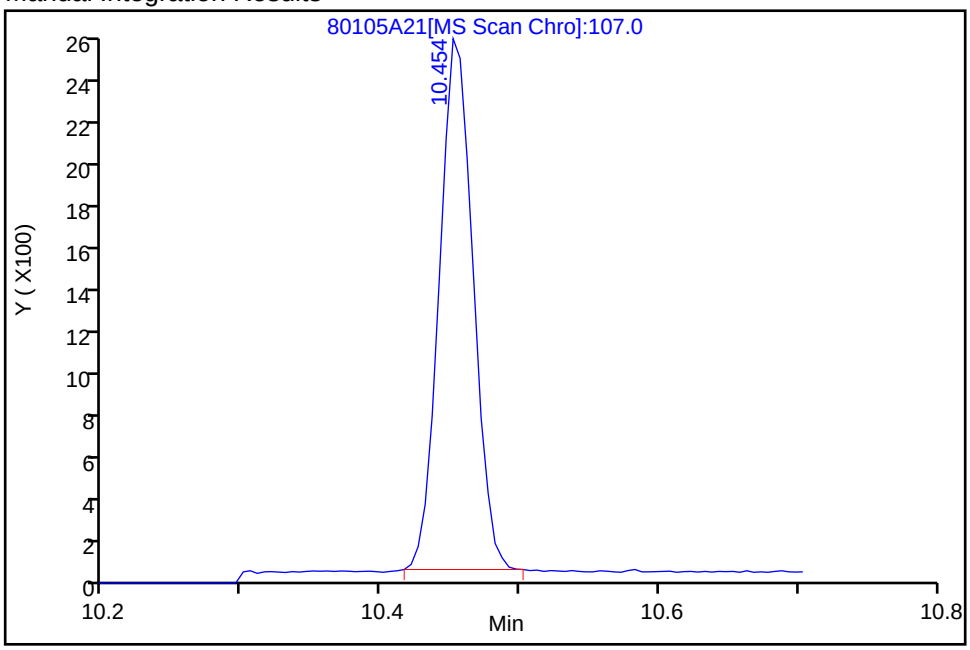
Not Detected
10.454

Processing Integration Results



Manual Integration Results

RT:	10.454
Area:	4163
Amount:	0.44784
Amount Units:	ug/L



Data Editor: all, 06-Jan-2016 07:32:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

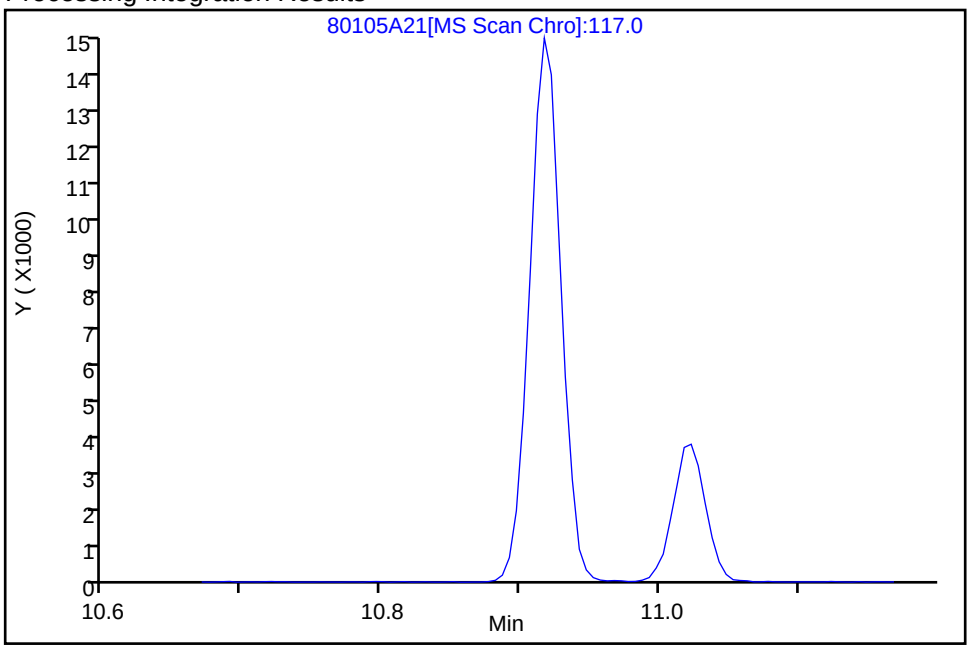
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A21.D		
Injection Date:	05-Jan-2016 22:38:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5VX	Lab ID:	VSTD0.5VX
Sample Info:	8010516.b, VSTD0.5VX		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

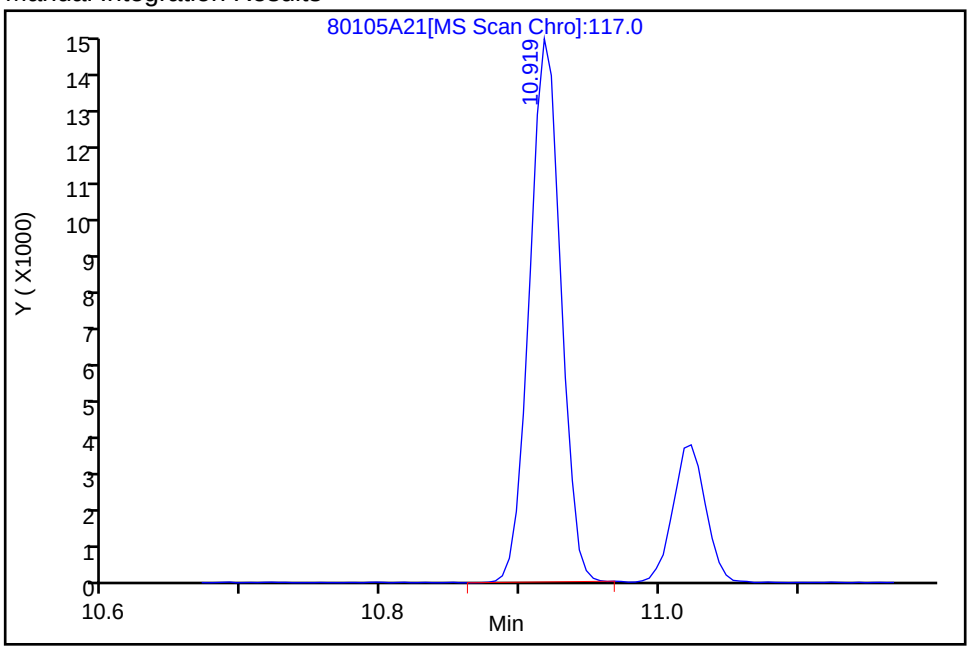
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	22923
Amount:	0.50000
Amount Units:	ug/L



Data Editor: all, 06-Jan-2016 07:32:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:47 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

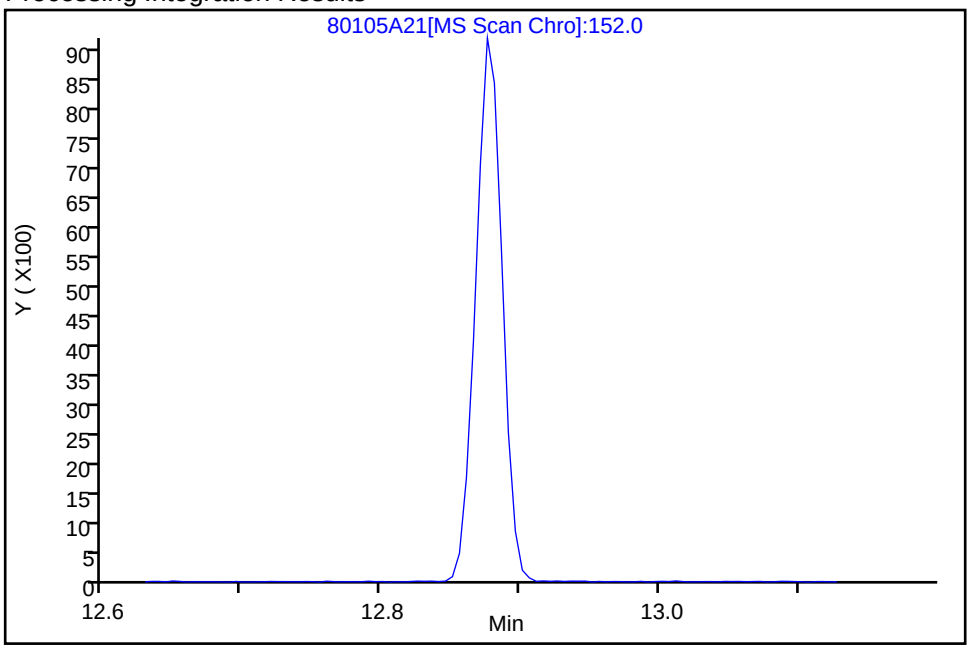
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A21.D		
Injection Date:	05-Jan-2016 22:38:30	Inst. ID:	msd8.i
Client ID:	VSTD0.5VX	Lab ID:	VSTD0.5VX
Sample Info:	8010516.b, VSTD0.5VX		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

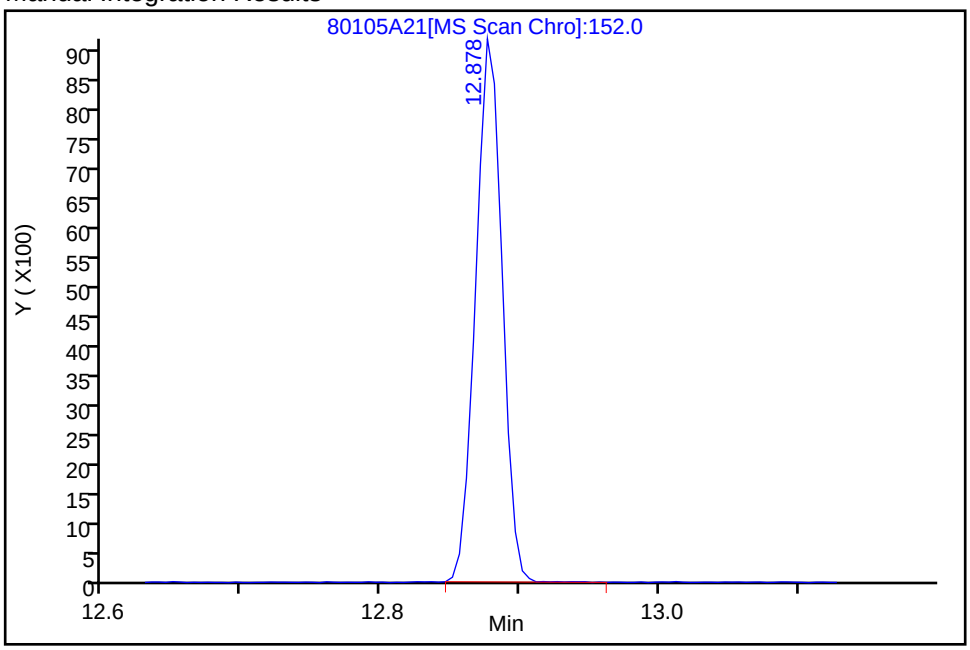
Not Detected
12.878

Processing Integration Results



Manual Integration Results

RT:	12.878
Area:	11985
Amount:	0.50000
Amount Units:	ug/L



Data Editor: all, 06-Jan-2016 07:32:30
Audit Action: Mint
Audit Reason: NOID

TRACEVOLATILE-sim
RAW QC DATA

DFTPP Data

Blank Data

Matrix Spike / Matrix Spike Duplicate-optional

Laboratory Control Sample Data-optional

DFTPP Data

DFTPPs are arranged in chronological order by instrument

-Reconstructed Total Ion Chromatogram

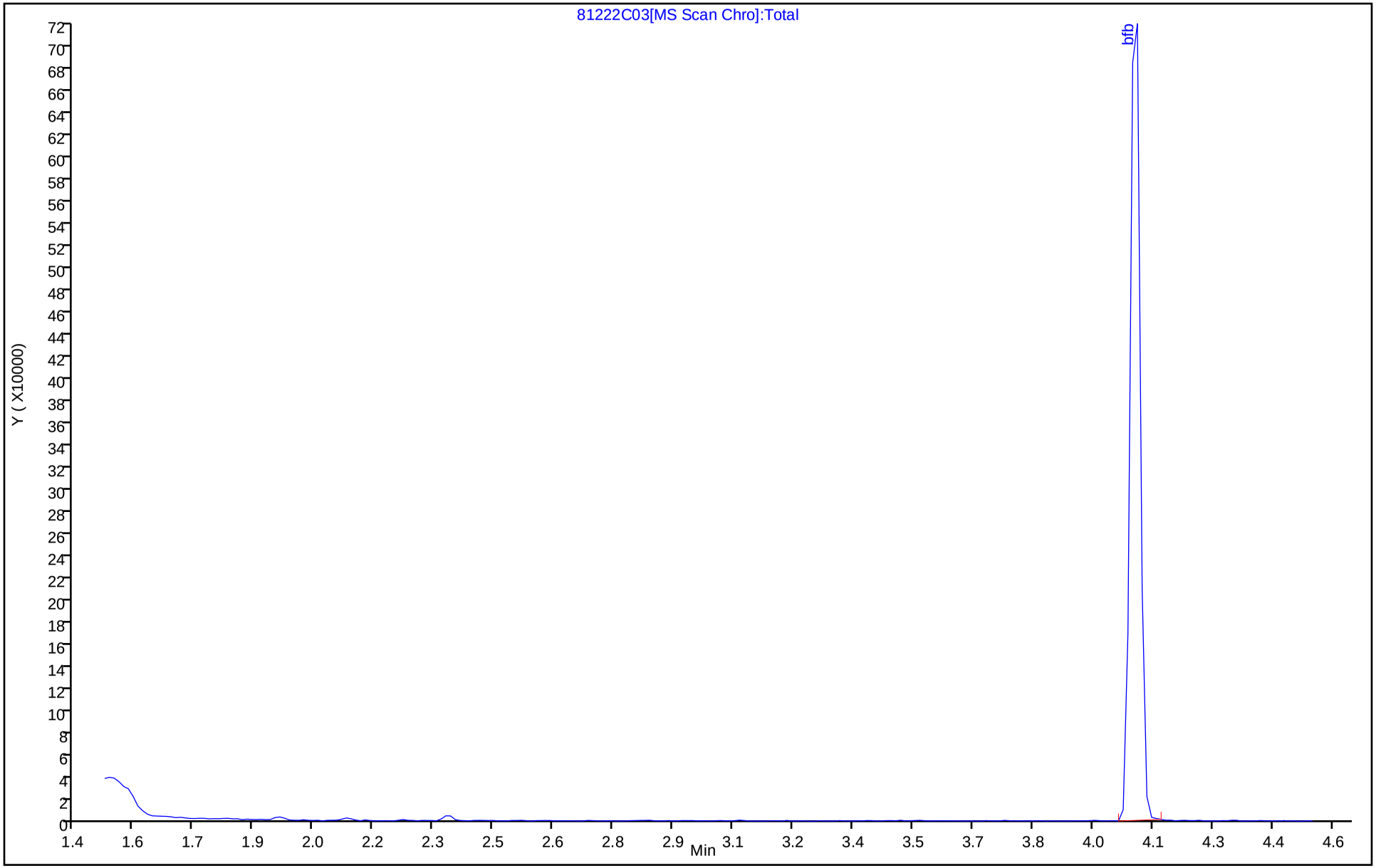
-Bar Graph Spectrum & Tabulated Relative Abundances

-Mass Listing

Report Date: 23-Dec-2015 12:32:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C03.D				
Injection Date:	23-Dec-2015 00:08:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	BFBSK	Lab ID:	BFBSK		
Sample Info:	8122215C.b, BFBSK				
Injection Vol.	2.00 uL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



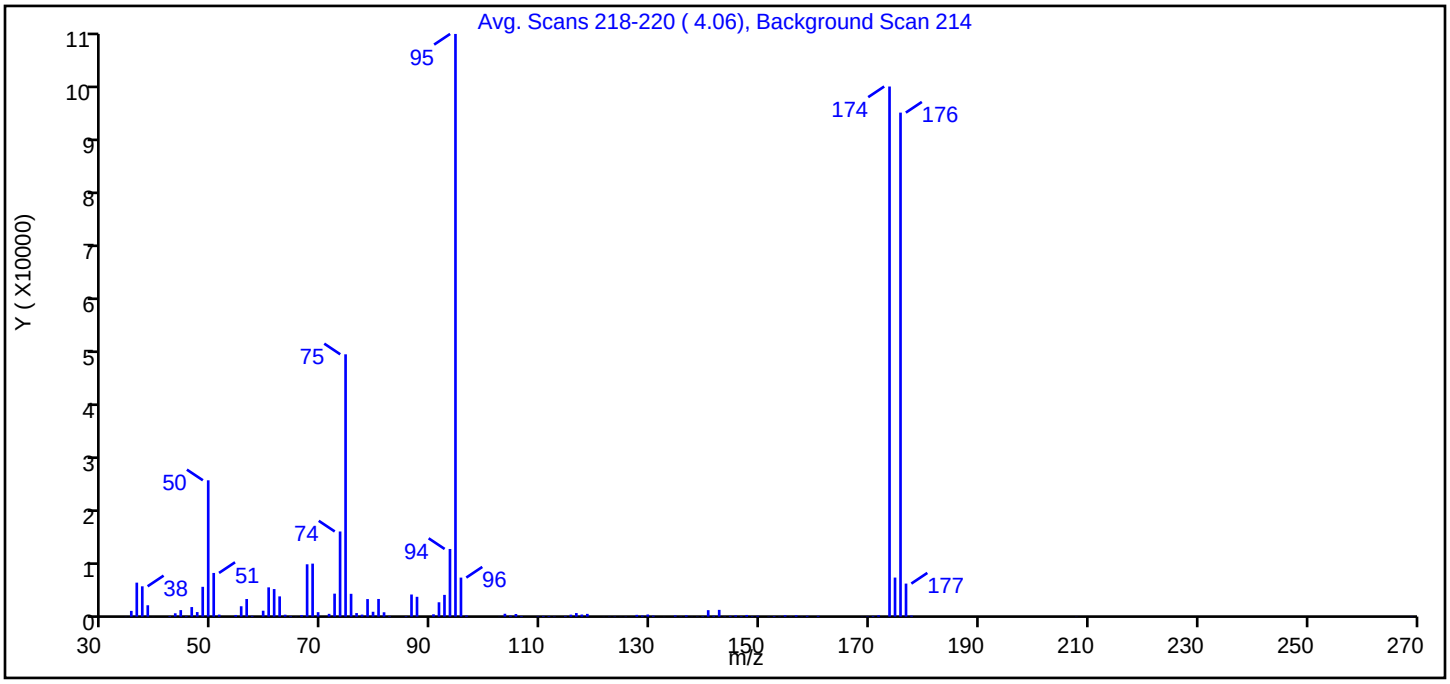
Report Date: 23-Dec-2015 12:32:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C03.D		
Injection Date:	23-Dec-2015 00:08:30	Inst. ID:	msd8.i
Client ID:	BFBSK	Lab ID:	BFBSK
Sample Info:	8122215C.b, BFBSK		
Injection Vol.	2.00 uL	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 bfb



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.0
50	15.00 - 40.00% of mass 95	23.4
75	30.00 - 80.00% of mass 95	45.0
96	5.00 - 9.00% of mass 95	6.7
173	Less than 2.00% of mass 174	0.0 (0.0)
174	50.00 - 120.00% of mass 95	91.0
175	5.00 - 9.00% of mass 174	6.7 (7.4)
176	95.00 - 101.00% of mass 174	86.5 (95.1)
177	5.00 - 9.00% of mass 176	5.7 (6.6)

Report Date: 23-Dec-2015 12:32:57 AIM Revision: 1.0 26-May-2015 13:41:26

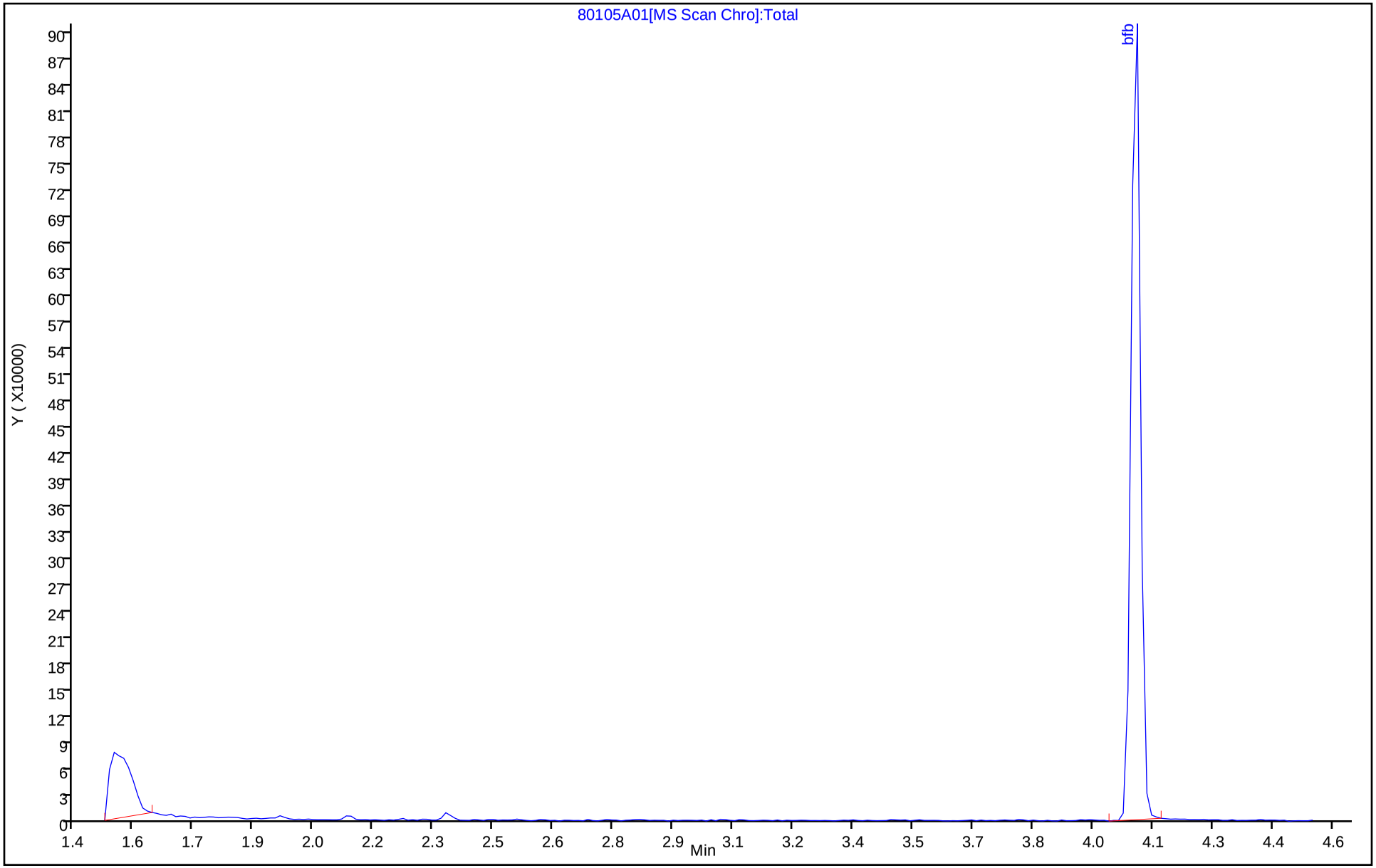
Data File: \\Organics\DD\chem\msd8.i\8122215C.b\81222C03.D
Injection Date: 23-Dec-2015 00:08:30
Spectrum: Avg. Scans 218-220 (4.06), Background Scan 214
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 115

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	21	68.00	9491	107.00	113	143.00	1222
36.00	1040	69.00	9612	110.00	71	144.00	56
37.00	6160	70.00	803	111.00	126	145.00	131
38.00	5495	72.00	501	112.00	101	146.00	223
39.00	2057	73.00	4164	113.00	57	147.00	95
40.00	13	74.00	15442	115.00	122	148.00	299
41.00	1	75.00	47584	116.00	351	149.00	83
43.00	107	76.00	4135	117.00	646	150.00	148
44.00	602	77.00	642	118.00	378	152.00	44
45.00	1177	78.00	363	119.00	496	153.00	105
46.00	92	79.00	3182	122.00	17	154.00	41
47.00	1731	80.00	877	123.00	35	155.00	239
48.00	822	81.00	3198	124.00	55	156.00	40
49.00	5403	82.00	785	125.00	17	157.00	237
50.00	24728	83.00	97	126.00	46	158.00	35
51.00	7920	86.00	92	127.00	20	159.00	146
52.00	361	87.00	4009	128.00	317	161.00	133
55.00	298	88.00	3592	129.00	192	169.00	25
56.00	1878	91.00	417	130.00	379	170.00	65
57.00	3193	92.00	2599	131.00	170	171.00	130
58.00	140	93.00	3941	133.00	19	172.00	239
60.00	1069	94.00	12268	135.00	209	174.00	96168
61.00	5306	95.00	105704	136.00	41	175.00	7081
62.00	4996	96.00	7078	137.00	225	176.00	91432
63.00	3669	97.00	204	138.00	19	177.00	5990
64.00	347	103.00	19	139.00	46	178.00	184
65.00	108	104.00	516	140.00	94	208.00	26
66.00	25	105.00	169	141.00	1168	269.00	35
67.00	280	106.00	468	142.00	157		

Report Date: 06-Jan-2016 08:54:29 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A01.D				
Injection Date:	05-Jan-2016 13:19:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	BFBVU	Lab ID:	BFBVU		
Sample Info:	8010516.b, BFBVU				
Injection Vol.	2.00 uL	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



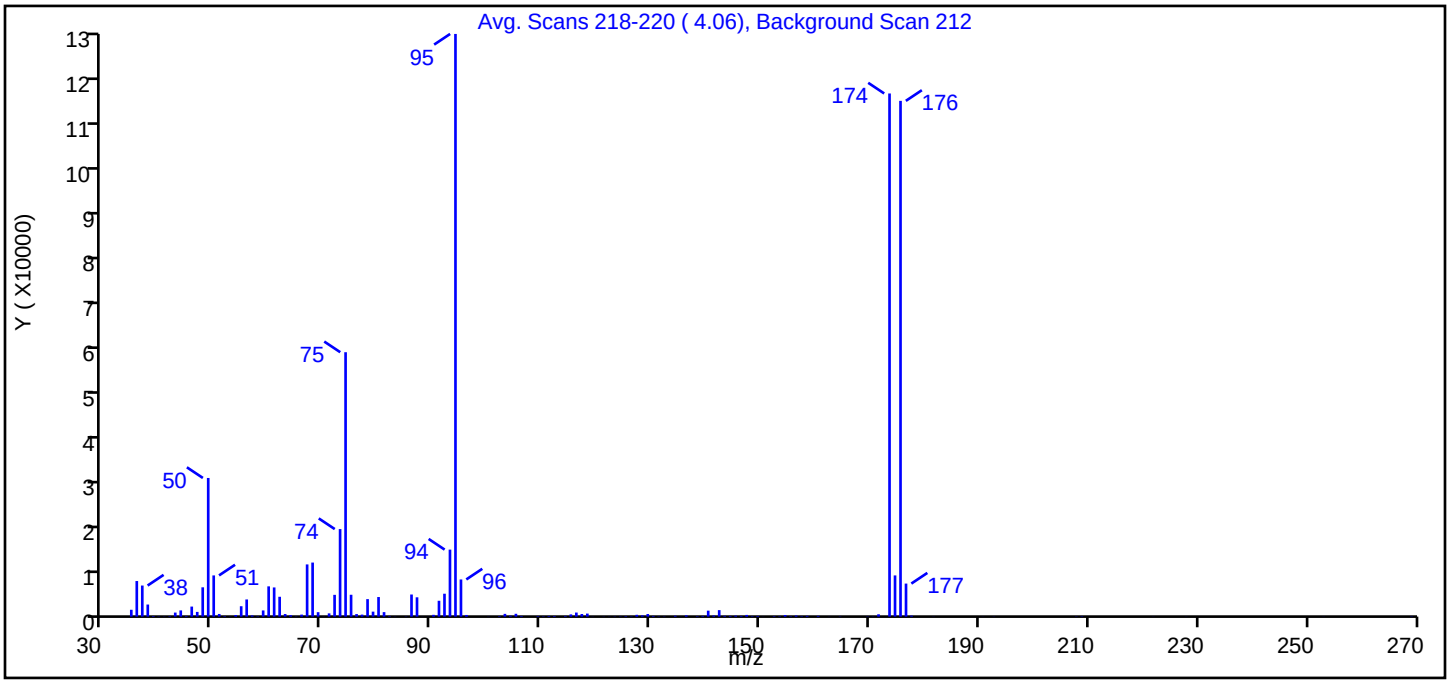
Report Date: 06-Jan-2016 08:54:29 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A01.D		
Injection Date:	05-Jan-2016 13:19:30	Inst. ID:	msd8.i
Client ID:	BFBVU	Lab ID:	BFBVU
Sample Info:	8010516.b, BFBVU		
Injection Vol.	2.00 uL	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

1 bfb



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.0
50	15.00 - 40.00% of mass 95	23.8
75	30.00 - 80.00% of mass 95	45.4
96	5.00 - 9.00% of mass 95	6.4
173	Less than 2.00% of mass 174	0.0 (0.0)
174	50.00 - 120.00% of mass 95	89.8
175	5.00 - 9.00% of mass 174	7.1 (7.9)
176	95.00 - 101.00% of mass 174	88.5 (98.6)
177	5.00 - 9.00% of mass 176	5.7 (6.4)

Data File: \\Organics\DD\chem\msd8.i\8010516.b\80105A01.D
Injection Date: 05-Jan-2016 13:19:30
Spectrum: Avg. Scans 218-220 (4.06), Background Scan 212
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 132

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1475	69.00	11647	107.00	135	146.00	206
37.00	7666	70.00	953	110.00	114	147.00	140
38.00	6696	71.00	31	111.00	73	148.00	364
39.00	2603	72.00	695	112.00	137	149.00	96
40.00	128	73.00	4690	113.00	131	150.00	136
41.00	52	74.00	18864	115.00	143	151.00	18
42.00	38	75.00	56984	116.00	477	153.00	101
43.00	92	76.00	4708	117.00	874	154.00	77
44.00	867	77.00	548	118.00	557	155.00	334
45.00	1335	78.00	431	119.00	650	156.00	87
46.00	122	79.00	3769	120.00	25	157.00	232
47.00	2161	80.00	1068	122.00	32	158.00	85
48.00	1012	81.00	4219	123.00	23	159.00	160
49.00	6312	82.00	964	124.00	47	161.00	154
50.00	29880	83.00	105	125.00	50	163.00	19
51.00	8877	84.00	30	126.00	103	165.00	49
52.00	569	86.00	47	127.00	66	170.00	54
53.00	109	87.00	4763	128.00	388	171.00	42
54.00	32	88.00	4158	129.00	265	172.00	501
55.00	341	89.00	17	130.00	558	174.00	112752
56.00	2237	90.00	17	131.00	146	175.00	8877
57.00	3697	91.00	383	132.00	56	176.00	111160
58.00	254	92.00	3412	133.00	50	177.00	7118
59.00	74	93.00	4932	135.00	175	178.00	205
60.00	1331	94.00	14439	136.00	17	182.00	23
61.00	6520	95.00	125584	137.00	268	191.00	17
62.00	6285	96.00	8006	139.00	95	193.00	29
63.00	4274	97.00	353	140.00	154	208.00	46
64.00	557	101.00	26	141.00	1281	209.00	76
65.00	307	103.00	106	142.00	238	222.00	17
66.00	51	104.00	591	143.00	1394	228.00	17
67.00	430	105.00	174	144.00	164	253.00	17
68.00	11247	106.00	606	145.00	135	269.00	55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1475	69.00	11647	107.00	135	146.00	206
37.00	7666	70.00	953	110.00	114	147.00	140
38.00	6696	71.00	31	111.00	73	148.00	364
39.00	2603	72.00	695	112.00	137	149.00	96
40.00	128	73.00	4690	113.00	131	150.00	136
41.00	52	74.00	18864	115.00	143	151.00	18
42.00	38	75.00	56984	116.00	477	153.00	101
43.00	92	76.00	4708	117.00	874	154.00	77
44.00	867	77.00	548	118.00	557	155.00	334
45.00	1335	78.00	431	119.00	650	156.00	87
46.00	122	79.00	3769	120.00	25	157.00	232
47.00	2161	80.00	1068	122.00	32	158.00	85
48.00	1012	81.00	4219	123.00	23	159.00	160
49.00	6312	82.00	964	124.00	47	161.00	154
50.00	29880	83.00	105	125.00	50	163.00	19
51.00	8877	84.00	30	126.00	103	165.00	49
52.00	569	86.00	47	127.00	66	170.00	54
53.00	109	87.00	4763	128.00	388	171.00	42
54.00	32	88.00	4158	129.00	265	172.00	501
55.00	341	89.00	17	130.00	558	174.00	112752
56.00	2237	90.00	17	131.00	146	175.00	8877
57.00	3697	91.00	383	132.00	56	176.00	111160
58.00	254	92.00	3412	133.00	50	177.00	7118
59.00	74	93.00	4932	135.00	175	178.00	205
60.00	1331	94.00	14439	136.00	17	182.00	23
61.00	6520	95.00	125584	137.00	268	191.00	17
62.00	6285	96.00	8006	139.00	95	193.00	29
63.00	4274	97.00	353	140.00	154	208.00	46
64.00	557	101.00	26	141.00	1281	209.00	76
65.00	307	103.00	106	142.00	238	222.00	17
66.00	51	104.00	591	143.00	1394	228.00	17
67.00	430	105.00	174	144.00	164	253.00	17
68.00	11247	106.00	606	145.00	135	269.00	55

Blank Data

Blanks are arranged by type of blank
(Method, Storage, Instrument)

Listed in Chronological Order by instrument.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKSK

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QQ92901-001

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222C10

% Solids: Date Received:

GC Column: DB-624 ID: 0.25 (mm) Date Extracted:

GC Column: ID: (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) Extract Volume: (uL)

Soil Aliquot (VOA): (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: (uL)

Purge Volume: 25.0 (mL) pH: Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
67-66-3	Chloroform	0.097	
56-23-5	Carbon tetrachloride	0.050	U
71-43-2	Benzene	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
78-87-5	1,2-Dichloropropane	0.050	U
75-27-4	Bromodichloromethane	0.050	U
10061-01-5	cis-1,3-Dichloropropene	0.050	U
79-00-5	1,1,2-Trichloroethane	0.050	U
591-78-6	2-Hexanone	0.50	U
106-93-4	1,2-Dibromoethane	0.050	U
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U
106-46-7	1,4-Dichlorobenzene	0.050	U
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U
120-82-1	1,2,4-Trichlorobenzene	0.050	U
87-61-6	1,2,3-Trichlorobenzene	0.050	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C10.D		
Lab Sample ID:	VBLKSK	Client Sample ID:	VBLKSK
Injection Date:	23-Dec-2015 03:18:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, VBLKSK		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	BLANK	ALS Bottle:	10
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 12:20:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 23 Chloroform-d	84.0	6.097	6.093	0.004	15997	0.49270	0.49270	Q
24 Chloroform	83.0	6.119	6.123	-0.004	9033	0.09658	0.09650	
27 Carbon Tetrachloride	117.0		6.596		ND			
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	4811	0.46939	0.46930	Q
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	21131	0.50455	0.50450	Q
31 Benzene	78.0		6.865		ND			
32 1,2-Dichloroethane	62.0		6.882		ND			
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	20158	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.895	7.904	-0.009	6742	0.51183	0.51180	M
37 1,2-Dichloropropane	63.0		8.020		ND			
39 Bromodichloromethane	83.0		8.384		ND			
40 cis-1,3-Dichloropropene	75.0		8.996		ND			
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	4518	0.47969	0.47960	Q
46 1,1,2-Trichloroethane	97.0		9.906		ND			
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4210	4.0654	4.0654	Q
50 2-Hexanone	43.0		10.184		ND			
52 1,2-Dibromoethane	107.0		10.459		ND			
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	15543	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	2703	0.47383	0.47380	Q
64 1,1,2,2-Tetrachloroethane	83.0		12.069		ND			
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	7546	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0		13.173		ND			
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	6649	0.51217	0.51210	Q
80 1,2-Dibromo-3-chloropropane	75.0		13.722		ND			
82 1,2,4-Trichlorobenzene	180.0		14.302		ND			
84 1,2,3-Trichlorobenzene	180.0		14.674		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C10.D		
Lab Sample ID:	VBLKSK	Client Sample ID:	VBLKSK
Injection Date:	23-Dec-2015 03:18:30	Dil. Factor:	1.0
Operator:	JJG	Inst. ID:	msd8.i
Sample Info:	8122215C.b, VBLKSK		
Method:	\\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m		
Method Date:	23-Dec-2015 11:44:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	BLANK	ALS Bottle:	10
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 12:20:30

Tentative Identified Compound Results

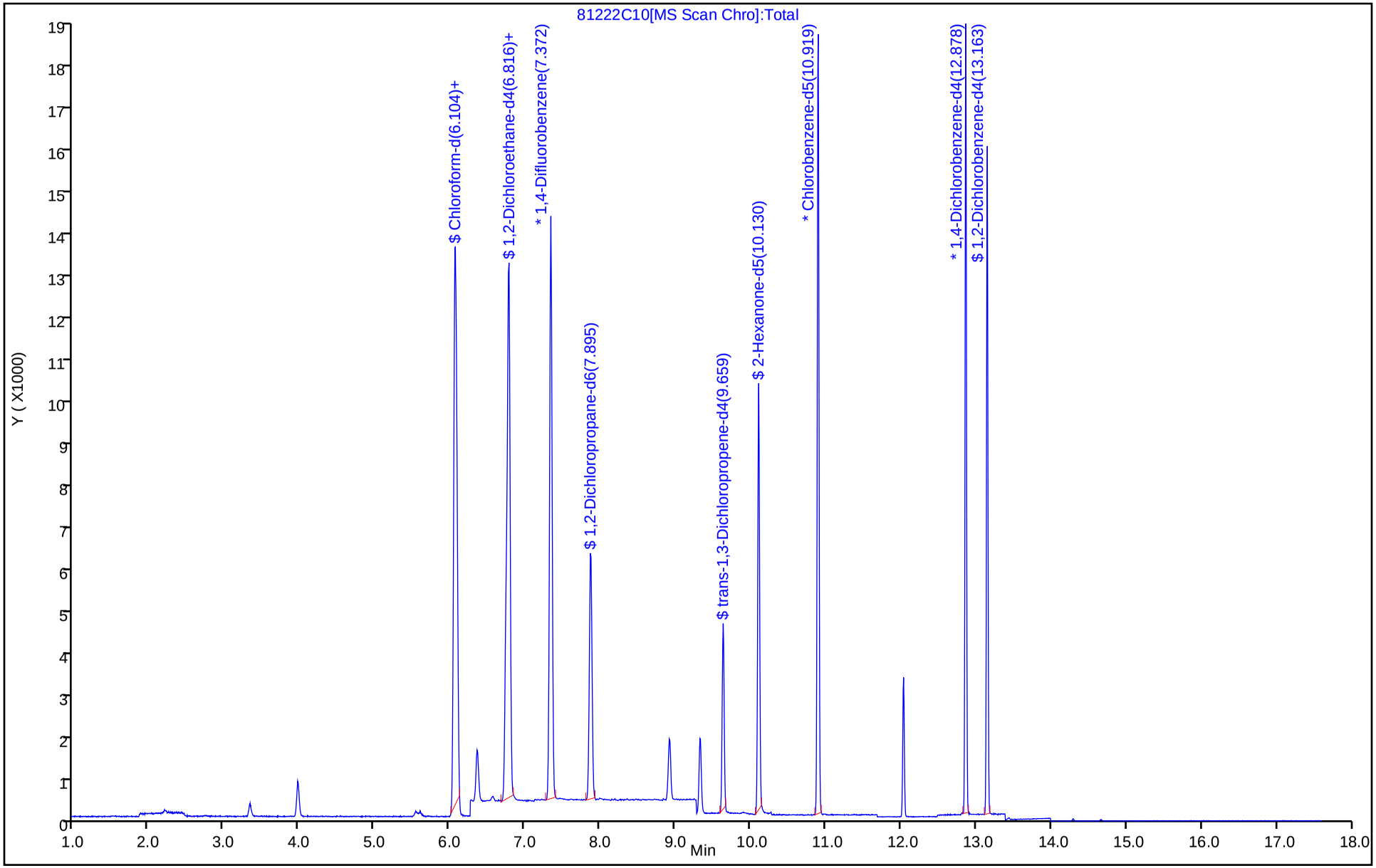
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 06-Jan-2016 11:38:19 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

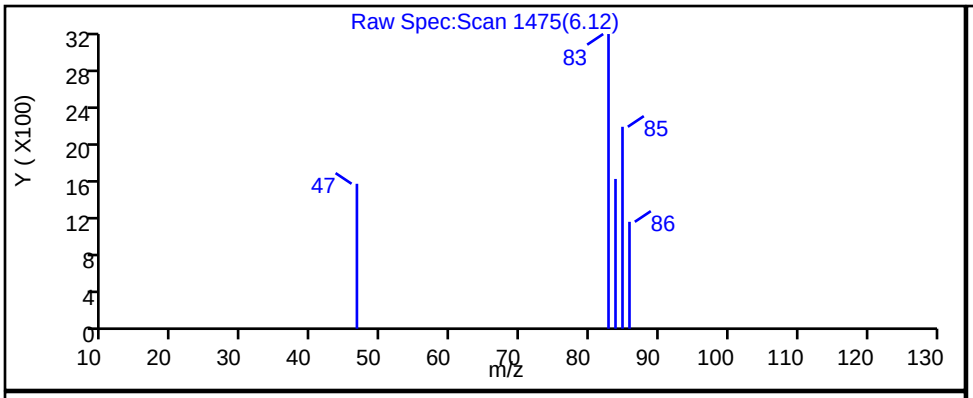
Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C10.D				
Injection Date:	23-Dec-2015 03:18:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	VBLKSK	Lab ID:	VBLKSK		
Sample Info:	8122215C.b, VBLKSK				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

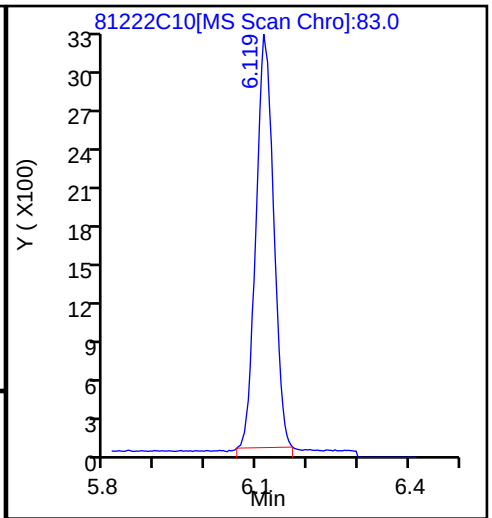


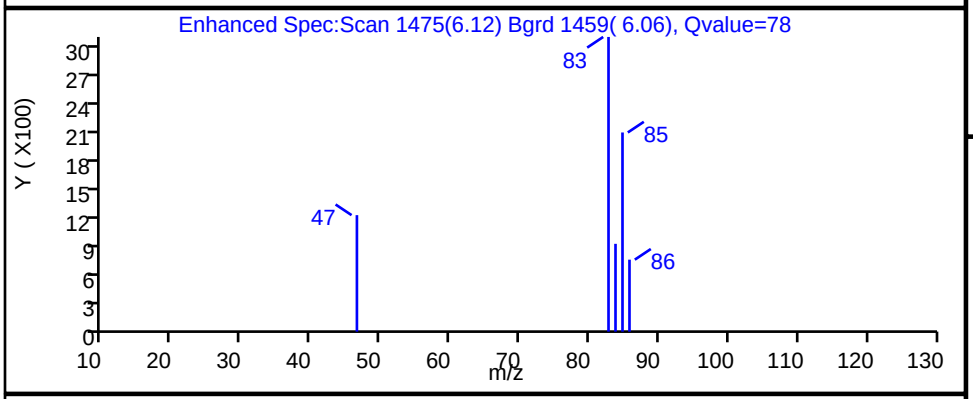
Shealy Environmental Services

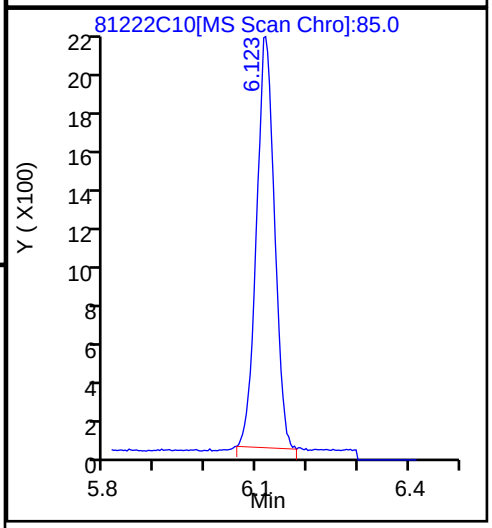
Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C10.D		
Injection Date:	23-Dec-2015 03:18:30	Inst. ID:	msd8.i
Client ID:	VBLKSK	Lab ID:	VBLKSK
Sample Info:	8122215C.b, VBLKSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

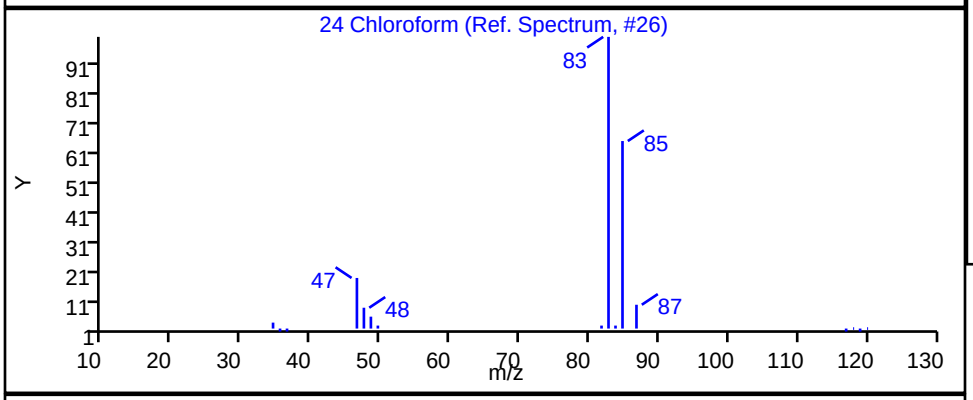
24 Chloroform

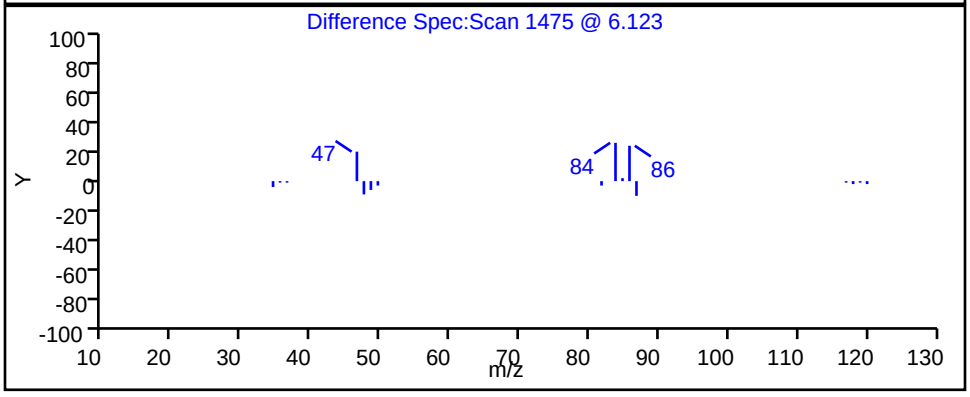












Report Date: 06-Jan-2016 11:38:19 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

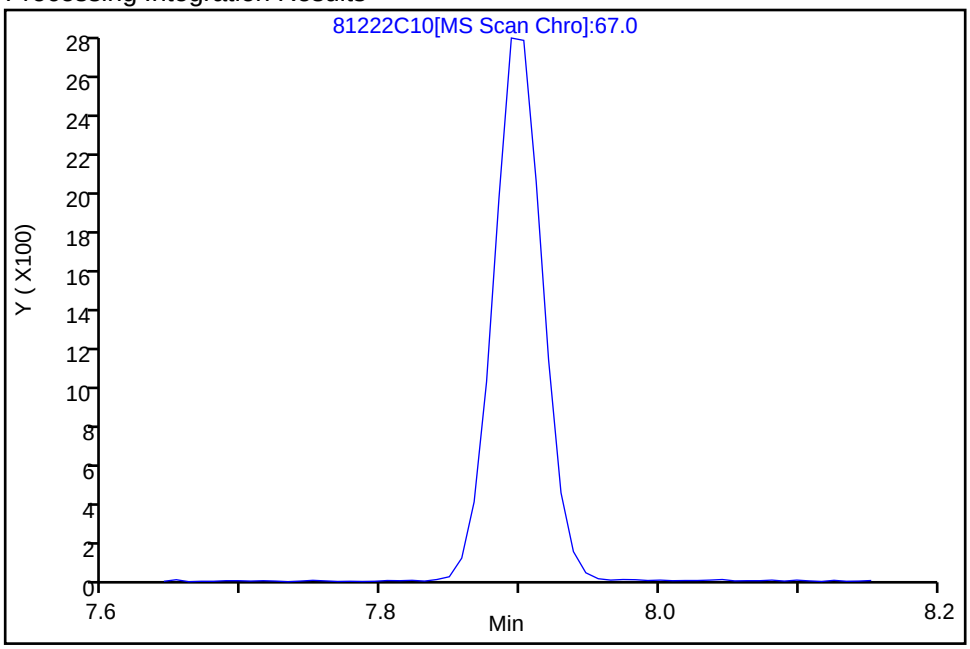
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C10.D		
Injection Date:	23-Dec-2015 03:18:30	Inst. ID:	msd8.i
Client ID:	VBLKSK	Lab ID:	VBLKSK
Sample Info:	8122215C.b, VBLKSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

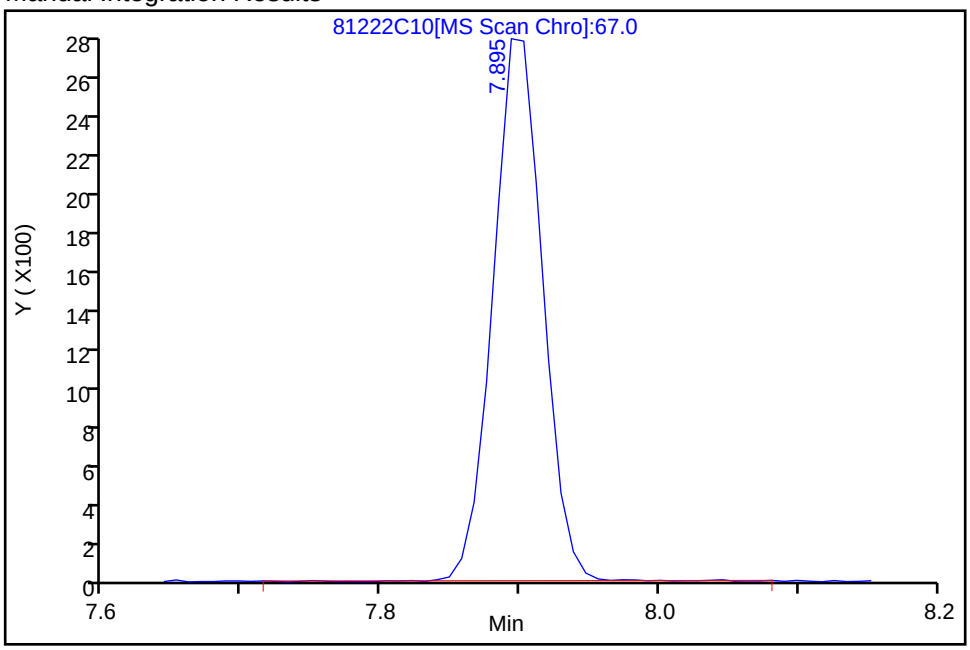
Processing Integration Results

Not Detected
7.904



Manual Integration Results

RT:	7.895
Area:	6742
Conc:	0.51180
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:20:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:19 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

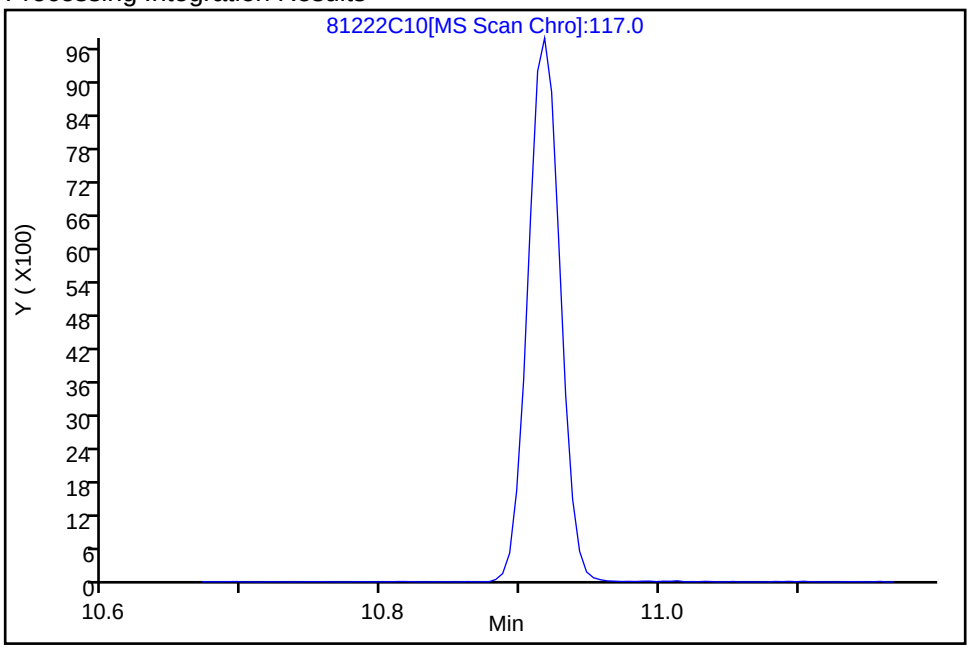
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C10.D		
Injection Date:	23-Dec-2015 03:18:30	Inst. ID:	msd8.i
Client ID:	VBLKSK	Lab ID:	VBLKSK
Sample Info:	8122215C.b, VBLKSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

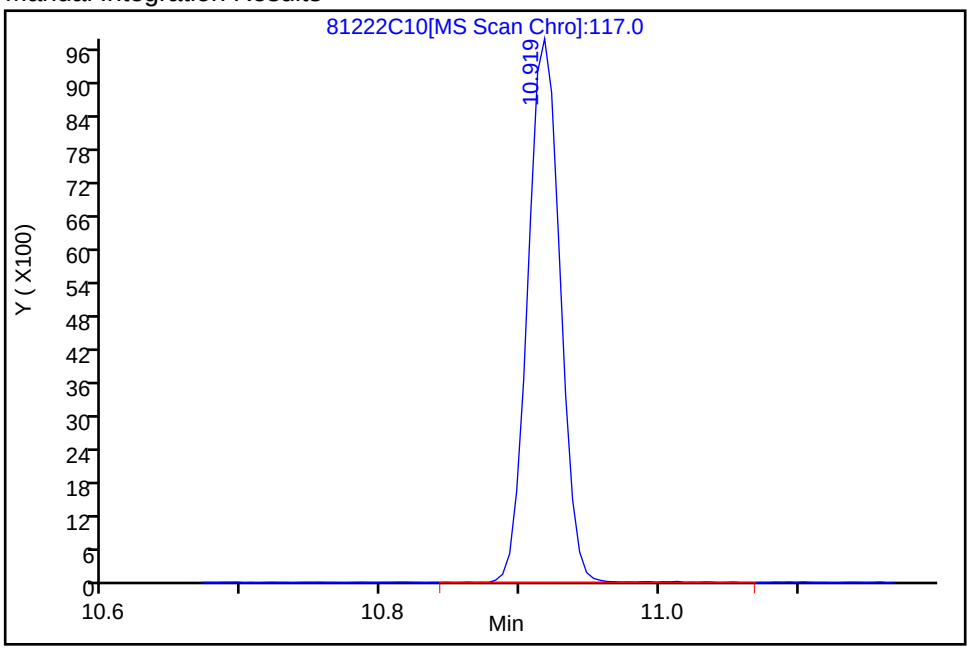
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	15543
Conc:	0.50000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:20:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:19 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

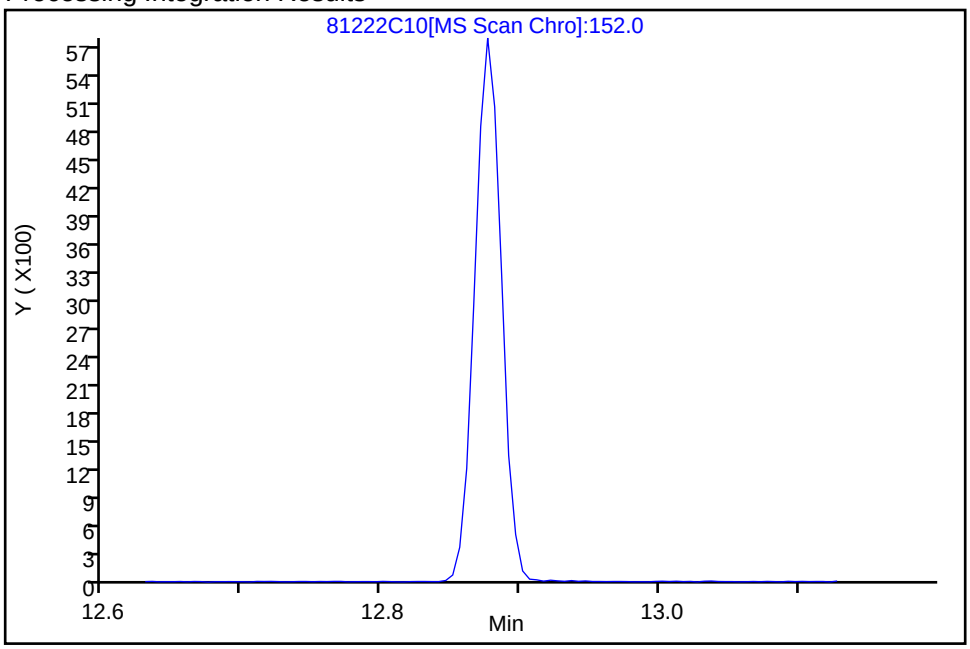
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C10.D		
Injection Date:	23-Dec-2015 03:18:30	Inst. ID:	msd8.i
Client ID:	VBLKSK	Lab ID:	VBLKSK
Sample Info:	8122215C.b, VBLKSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

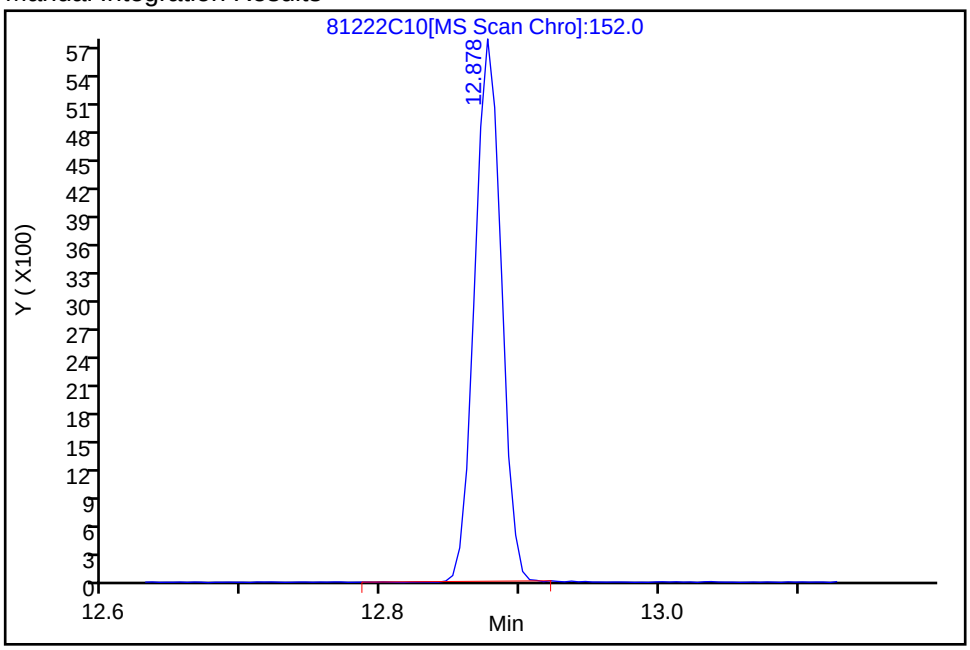
Not Detected
12.878

Processing Integration Results



Manual Integration Results

RT:	12.878
Area:	7546
Conc:	0.50000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 12:20:30
Audit Action: Mint
Audit Reason: NOID

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKTC

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QQ92921-001

Sample wt/vol: 1.00 (g/mL) mL Lab File ID: 81223A02

% Solids: Date Received:

GC Column: DB-624 ID: 0.25 (mm) Date Extracted:

GC Column: ID: (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) Extract Volume: (uL)

Soil Aliquot (VOA): (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: (uL)

Purge Volume: 1.0 (mL) pH: Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
67-66-3	Chloroform	0.088	
56-23-5	Carbon tetrachloride	0.050	U
71-43-2	Benzene	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
78-87-5	1,2-Dichloropropane	0.050	U
75-27-4	Bromodichloromethane	0.050	U
10061-01-5	cis-1,3-Dichloropropene	0.050	U
79-00-5	1,1,2-Trichloroethane	0.050	U
591-78-6	2-Hexanone	0.50	U
106-93-4	1,2-Dibromoethane	0.050	U
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U
106-46-7	1,4-Dichlorobenzene	0.050	U
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U
120-82-1	1,2,4-Trichlorobenzene	0.050	U
87-61-6	1,2,3-Trichlorobenzene	0.050	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A02.D		
Lab Sample ID:	VBLKTC	Client Sample ID:	VBLKTC
Injection Date:	23-Dec-2015 12:43:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd8.i
Sample Info:	8122315.b, VBLKTC		
Method:	\\Organics\DD\chem\msd8.i\8122315.b\SIM2545-8.m		
Method Date:	23-Dec-2015 12:14:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	BLANK	ALS Bottle:	3
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 13:11:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 23 Chloroform-d	84.0	6.097	6.096	0.001	15768	0.49381	0.49380	Q
24 Chloroform	83.0	6.123	6.123	0.000	8053	0.08755	0.08750	
27 Carbon Tetrachloride	117.0		6.596		ND			
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	4806	0.47678	0.47670	
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	20509	0.50217	0.50210	
31 Benzene	78.0		6.865		ND			
32 1,2-Dichloroethane	62.0		6.882		ND			
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	19825	0.50000	0.50000	Q
$ 35 1,2-Dichloropropane-d6	67.0	7.895	7.904	-0.009	6729	0.52385	0.52380	M
37 1,2-Dichloropropane	63.0		8.020		ND			
39 Bromodichloromethane	83.0		8.384		ND			
40 cis-1,3-Dichloropropene	75.0		8.996		ND			
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	4508	0.49082	0.49080	
46 1,1,2-Trichloroethane	97.0		9.906		ND			
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4146	4.1056	4.1055	Q
50 2-Hexanone	43.0		10.179		ND			
52 1,2-Dibromoethane	107.0		10.459		ND			
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	15157	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	2750	0.49435	0.49430	
64 1,1,2,2-Tetrachloroethane	83.0		12.069		ND			
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	7458	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0		12.893		ND			
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	6607	0.51494	0.51490	
80 1,2-Dibromo-3-chloropropane	75.0		13.722		ND			
82 1,2,4-Trichlorobenzene	180.0		14.302		ND			
84 1,2,3-Trichlorobenzene	180.0		14.668		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A02.D		
Lab Sample ID:	VBLKTC	Client Sample ID:	VBLKTC
Injection Date:	23-Dec-2015 12:43:30	Dil. Factor:	1.0
Operator:	PAP	Inst. ID:	msd8.i
Sample Info:	8122315.b, VBLKTC		
Method:	\\Organics\DD\chem\msd8.i\8122315.b\SIM2545-8.m		
Method Date:	23-Dec-2015 12:14:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	BLANK	ALS Bottle:	3
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	pap	Review Date:	23-Dec-2015 13:11:30

Tentative Identified Compound Results

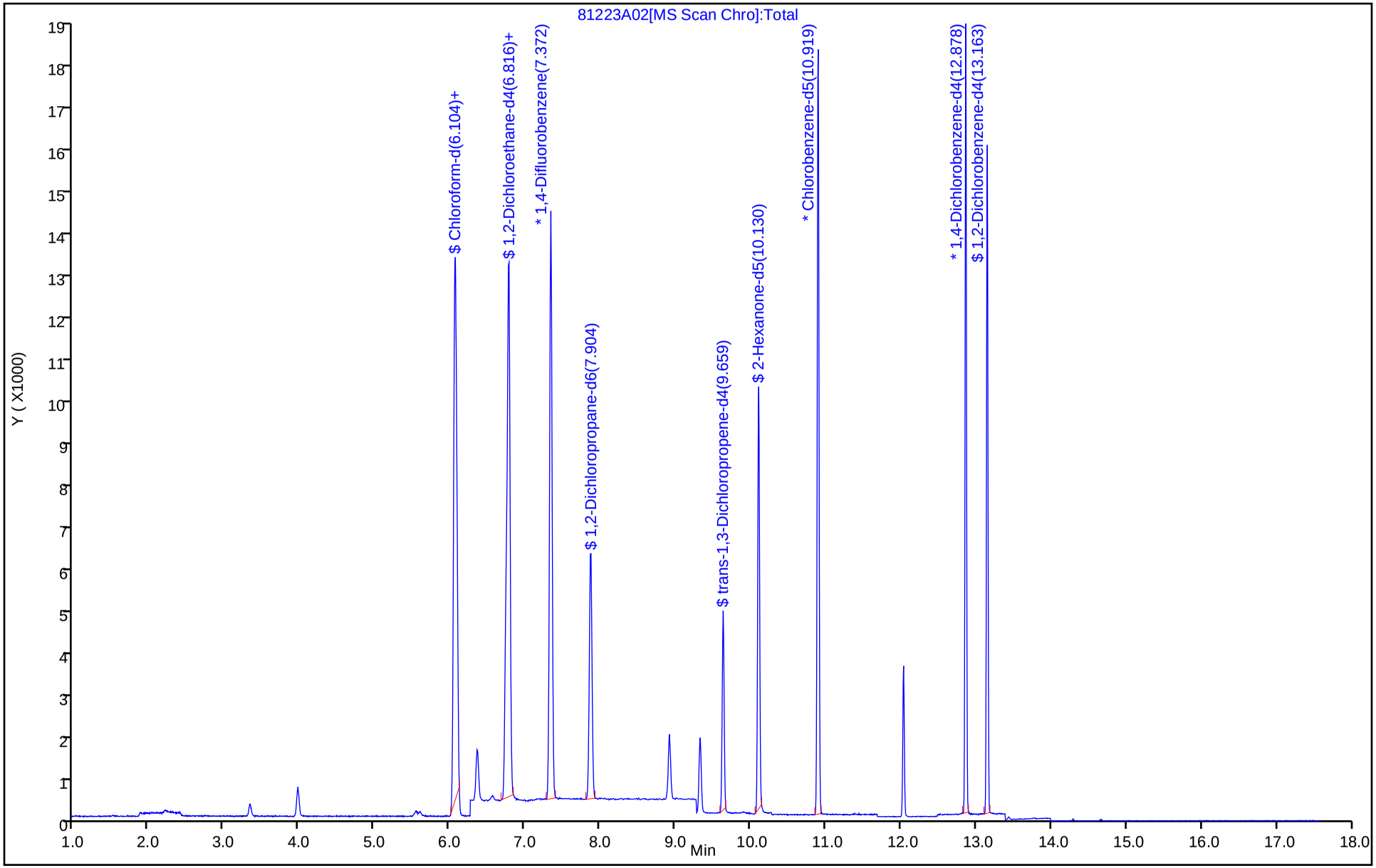
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 23-Dec-2015 16:27:54 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A02.D				
Injection Date:	23-Dec-2015 12:43:30	Inst. ID:	msd8.i	Operator:	PAP
Client ID:	VBLKTC	Lab ID:	VBLKTC		
Sample Info:	8122315.b, VBLKTC				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

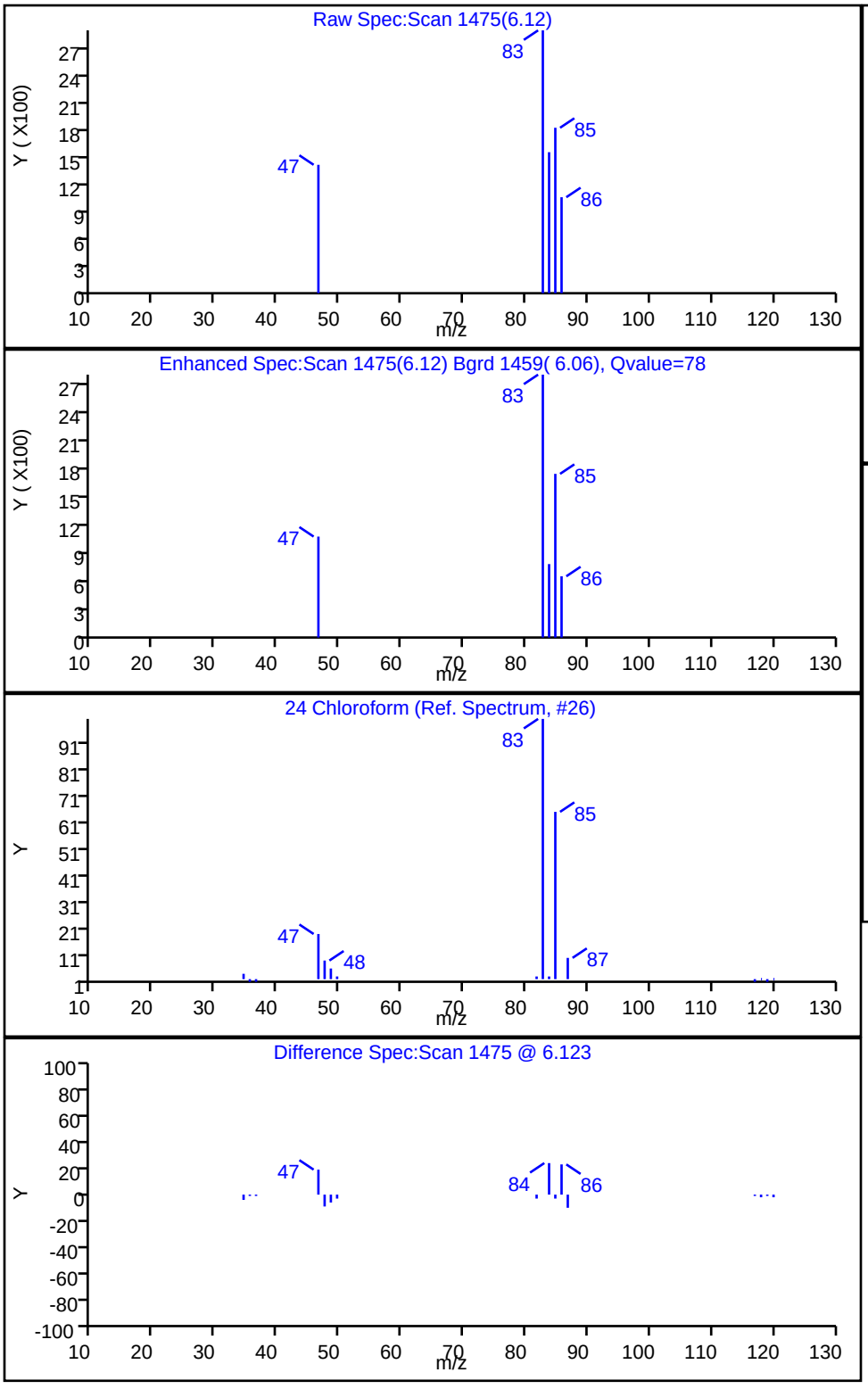


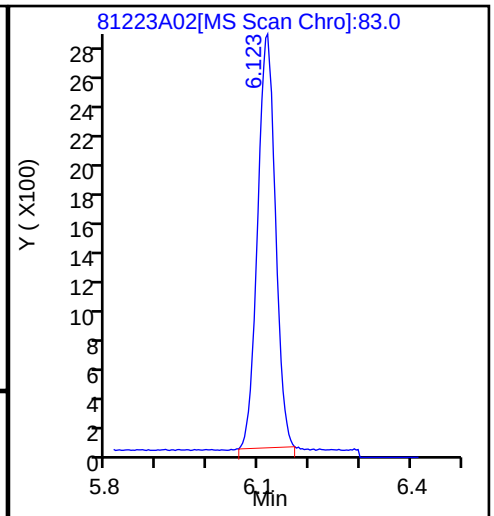
Report Date: 23-Dec-2015 16:27:54 AIM Revision: 1.0 26-May-2015 13:41:26

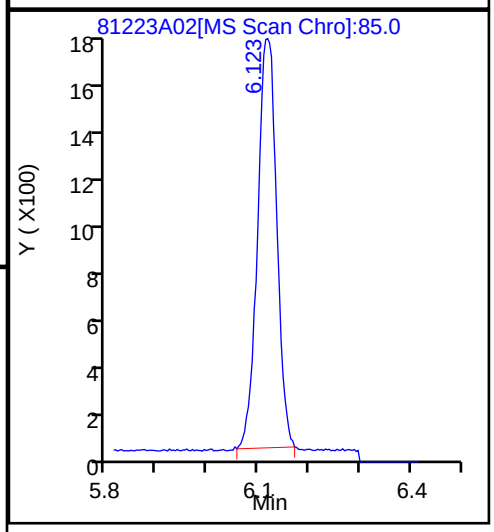
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A02.D		
Injection Date:	23-Dec-2015 12:43:30	Inst. ID:	msd8.i
Client ID:	VBLKTC	Lab ID:	VBLKTC
Sample Info:	8122315.b, VBLKTC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

24 Chloroform







Report Date: 23-Dec-2015 16:27:54 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

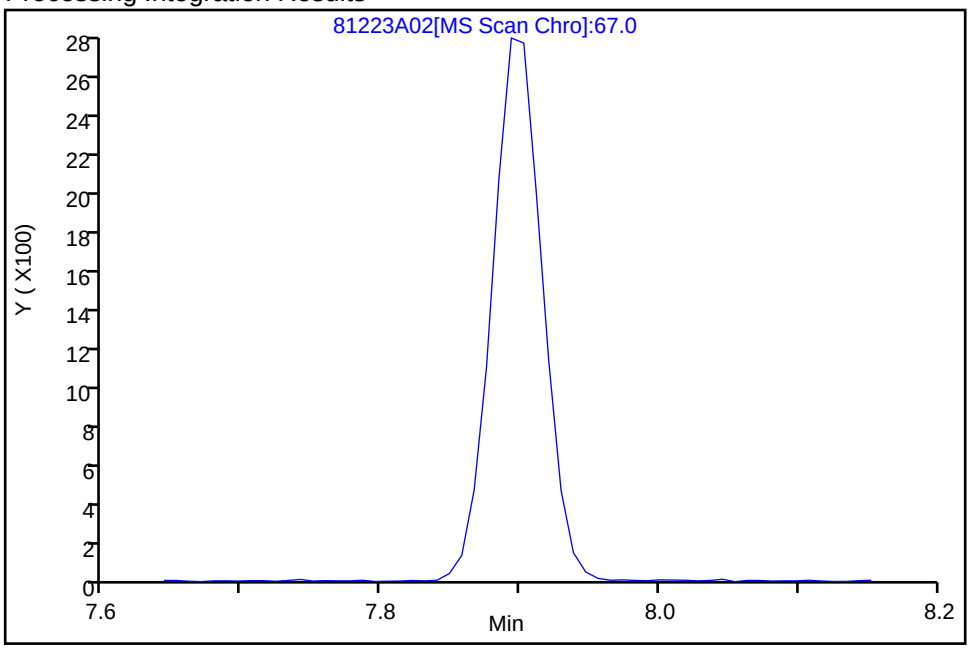
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A02.D		
Injection Date:	23-Dec-2015 12:43:30	Inst. ID:	msd8.i
Client ID:	VBLKTC	Lab ID:	VBLKTC
Sample Info:	8122315.b, VBLKTC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

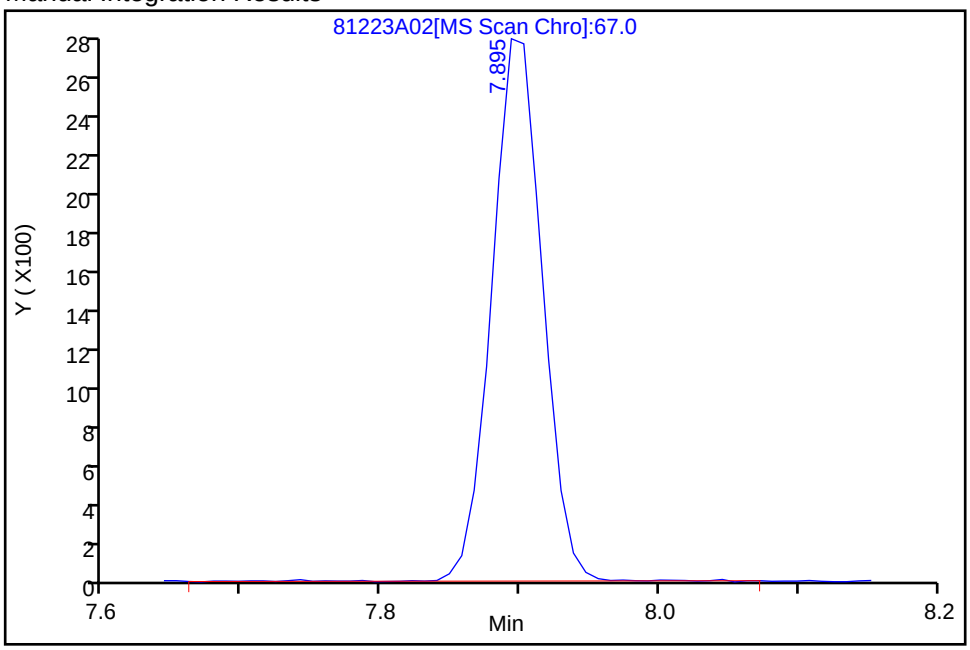
Not Detected
7.904

Processing Integration Results



Manual Integration Results

RT:	7.895
Area:	6729
Conc:	0.52380
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 13:11:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:54 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

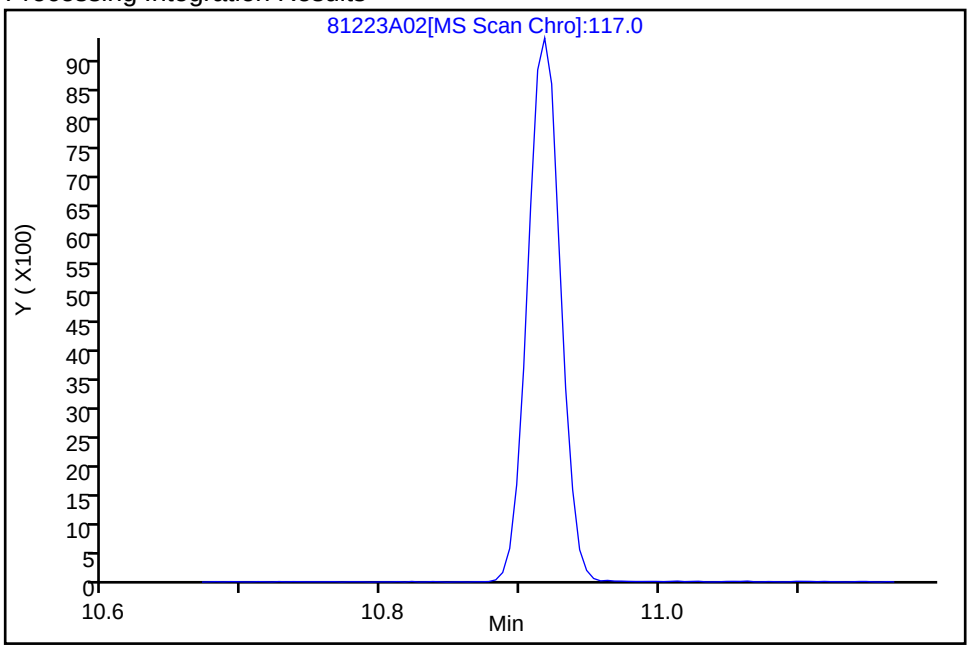
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A02.D		
Injection Date:	23-Dec-2015 12:43:30	Inst. ID:	msd8.i
Client ID:	VBLKTC	Lab ID:	VBLKTC
Sample Info:	8122315.b, VBLKTC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

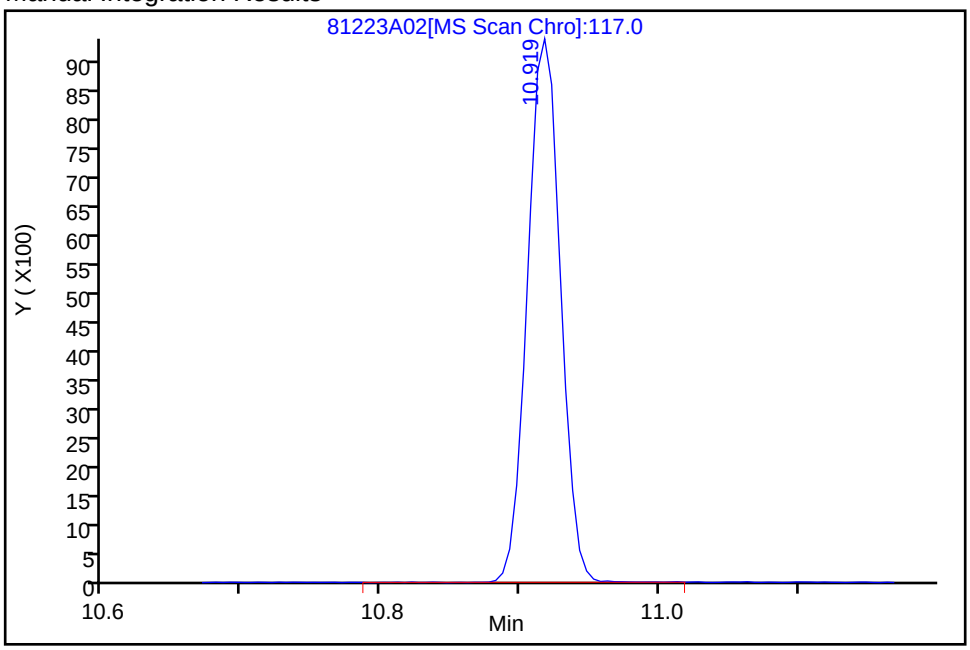
Not Detected
10.919

Processing Integration Results



Manual Integration Results

RT:	10.919
Area:	15157
Conc:	0.50000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 13:11:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 23-Dec-2015 16:27:55 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

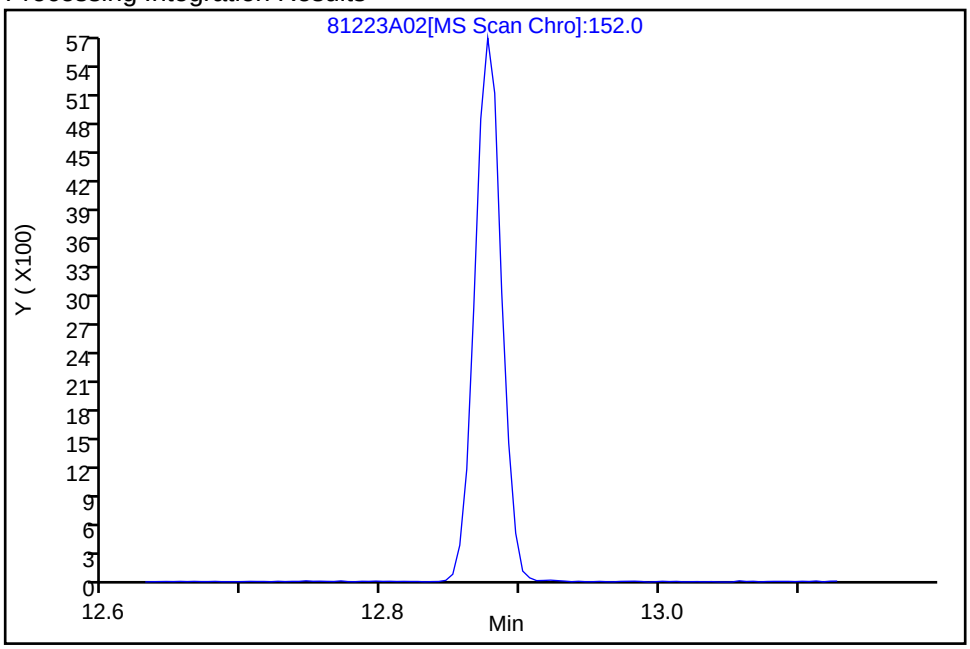
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122315.b\81223A02.D		
Injection Date:	23-Dec-2015 12:43:30	Inst. ID:	msd8.i
Client ID:	VBLKTC	Lab ID:	VBLKTC
Sample Info:	8122315.b, VBLKTC		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	PAP		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

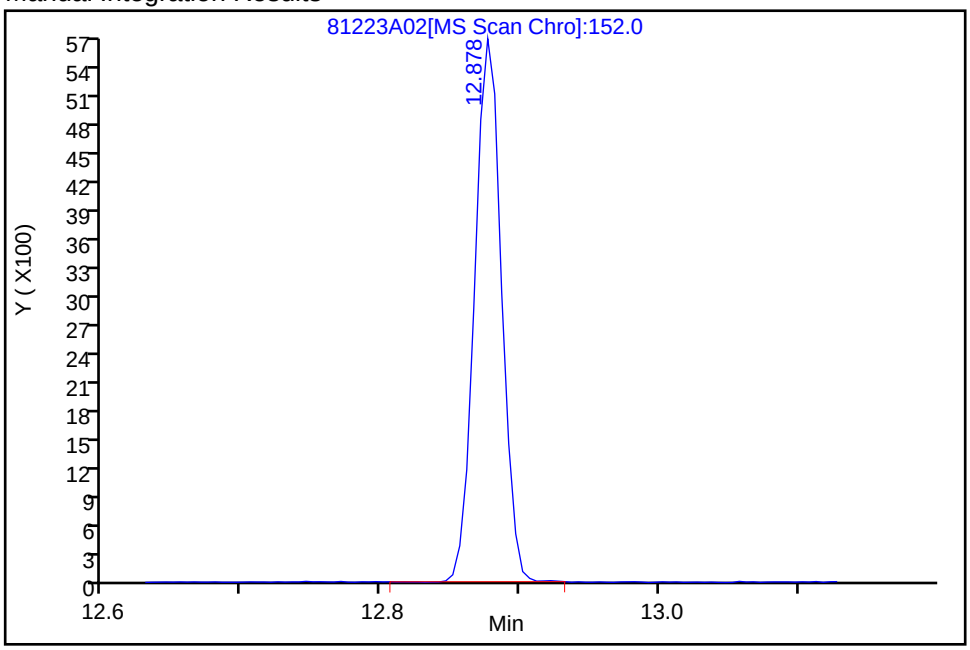
Processing Integration Results

Not Detected
12.878



Manual Integration Results

RT: 12.878
Area: 7458
Conc: 0.50000
Conc Units: ug/L



Data Editor: pap, 23-Dec-2015 13:11:30
Audit Action: Mint
Audit Reason: NOID

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VBLKVU

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: RQ93646-001

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 80105A03

% Solids: Date Received:

GC Column: DB-624 ID: 0.25 (mm) Date Extracted:

GC Column: ID: (mm) Date Analyzed: 01/05/2016

Extract Concentrated: (Y/N) Extract Volume: (uL)

Soil Aliquot (VOA): (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: (uL)

Purge Volume: 25.0 (mL) pH: Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
67-66-3	Chloroform	0.081	
56-23-5	Carbon tetrachloride	0.050	U
71-43-2	Benzene	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
78-87-5	1,2-Dichloropropane	0.050	U
75-27-4	Bromodichloromethane	0.050	U
10061-01-5	cis-1,3-Dichloropropene	0.050	U
79-00-5	1,1,2-Trichloroethane	0.050	U
591-78-6	2-Hexanone	0.50	U
106-93-4	1,2-Dibromoethane	0.050	U
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U
106-46-7	1,4-Dichlorobenzene	0.050	U
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U
120-82-1	1,2,4-Trichlorobenzene	0.050	U
87-61-6	1,2,3-Trichlorobenzene	0.050	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A03.D		
Lab Sample ID:	VBLKVU	Client Sample ID:	VBLKVU
Injection Date:	05-Jan-2016 14:25:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8010516.b, VBLKVU		
Method:	\\Organics\DD\chem\msd8.i\8010516.b\SIM2545-8.m		
Method Date:	05-Jan-2016 15:22:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	BLANK	ALS Bottle:	3
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	05-Jan-2016 14:48:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 23 Chloroform-d	84.0	6.097	6.097	0.001	31939	0.52692	0.52690	Q
24 Chloroform	83.0	6.123	6.123	0.000	14078	0.08062	0.08060	
27 Carbon Tetrachloride	117.0		6.596		ND			
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	8531	0.44584	0.44580	
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	39970	0.53943	0.53940	
31 Benzene	78.0		6.865		ND			
32 1,2-Dichloroethane	62.0		6.882		ND			
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	37633	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.895	7.895	0.000	12440	0.53380	0.53370	M
37 1,2-Dichloropropane	63.0		8.020		ND			
39 Bromodichloromethane	83.0		8.384		ND			
40 cis-1,3-Dichloropropene	75.0		8.996		ND			
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	8116	0.48705	0.48700	
46 1,1,2-Trichloroethane	97.0		9.906		ND			
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4692	2.5609	2.5609	
50 2-Hexanone	43.0		10.184		ND			
52 1,2-Dibromoethane	107.0		10.454		ND			
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	27499	0.50000	0.50000	
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	4478	0.44369	0.44360	
64 1,1,2,2-Tetrachloroethane	83.0		12.069		ND			
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	13308	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0		13.173		ND			
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	11872	0.51854	0.51850	Q
80 1,2-Dibromo-3-chloropropane	75.0		13.722		ND			
82 1,2,4-Trichlorobenzene	180.0		14.302		ND			
84 1,2,3-Trichlorobenzene	180.0		14.668		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A03.D		
Lab Sample ID:	VBLKVU	Client Sample ID:	VBLKVU
Injection Date:	05-Jan-2016 14:25:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8010516.b, VBLKVU		
Method:	\\Organics\DD\chem\msd8.i\8010516.b\SIM2545-8.m		
Method Date:	05-Jan-2016 15:22:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	BLANK	ALS Bottle:	3
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	05-Jan-2016 14:48:30

Tentative Identified Compound Results

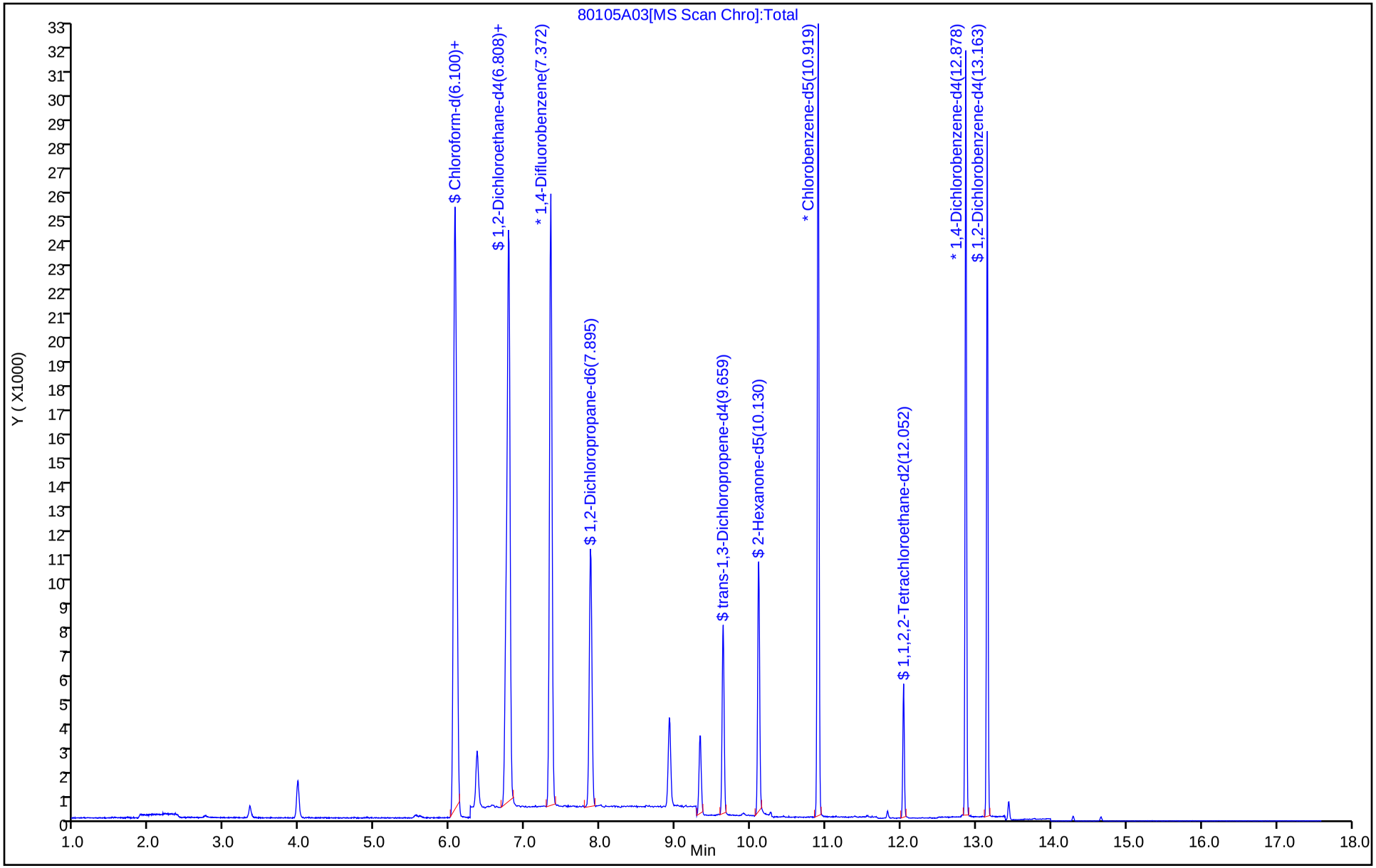
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A03.D				
Injection Date:	05-Jan-2016 14:25:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VBLKVU	Lab ID:	VBLKVU		
Sample Info:	8010516.b, VBLKVU				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

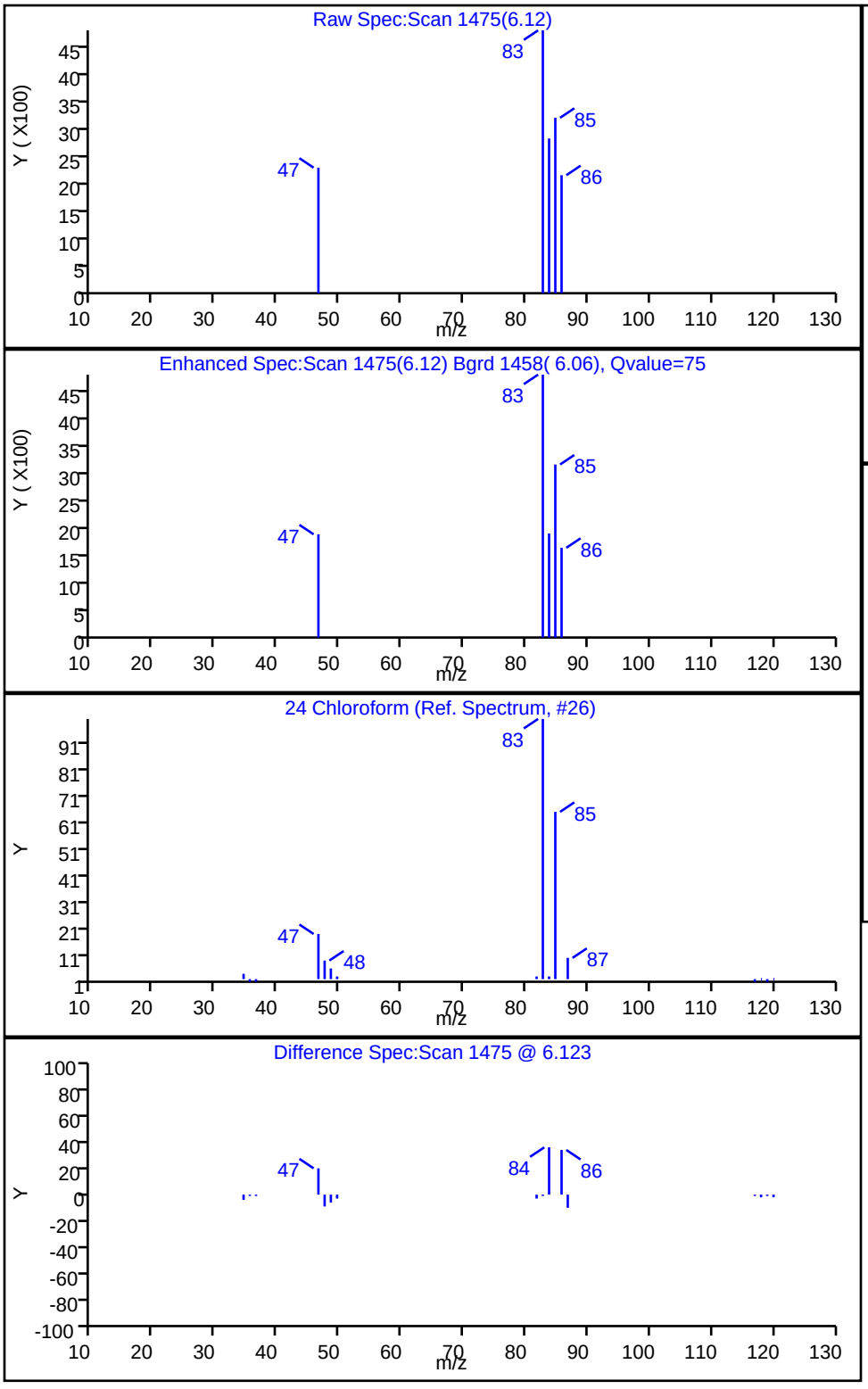


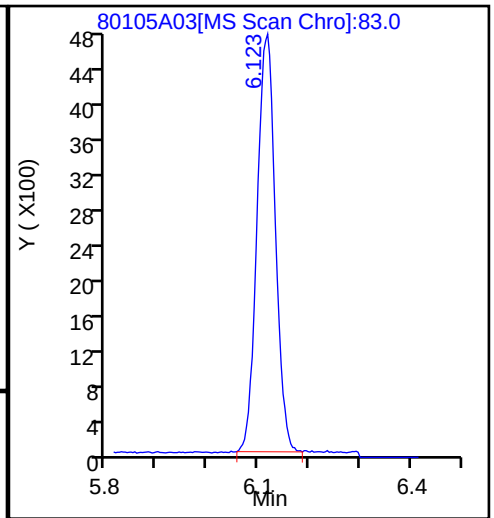
Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

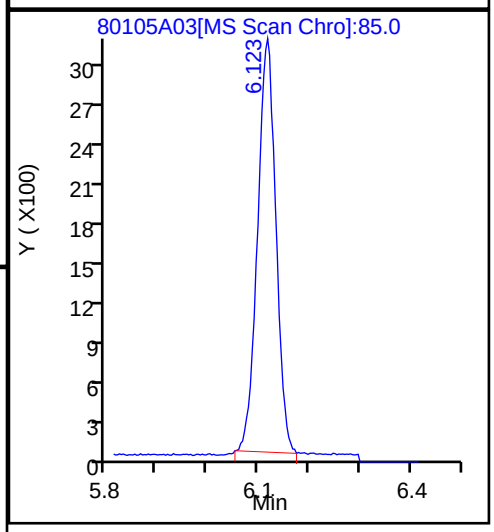
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A03.D		
Injection Date:	05-Jan-2016 14:25:30	Inst. ID:	msd8.i
Client ID:	VBLKVU	Lab ID:	VBLKVU
Sample Info:	8010516.b, VBLKVU		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

24 Chloroform







Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

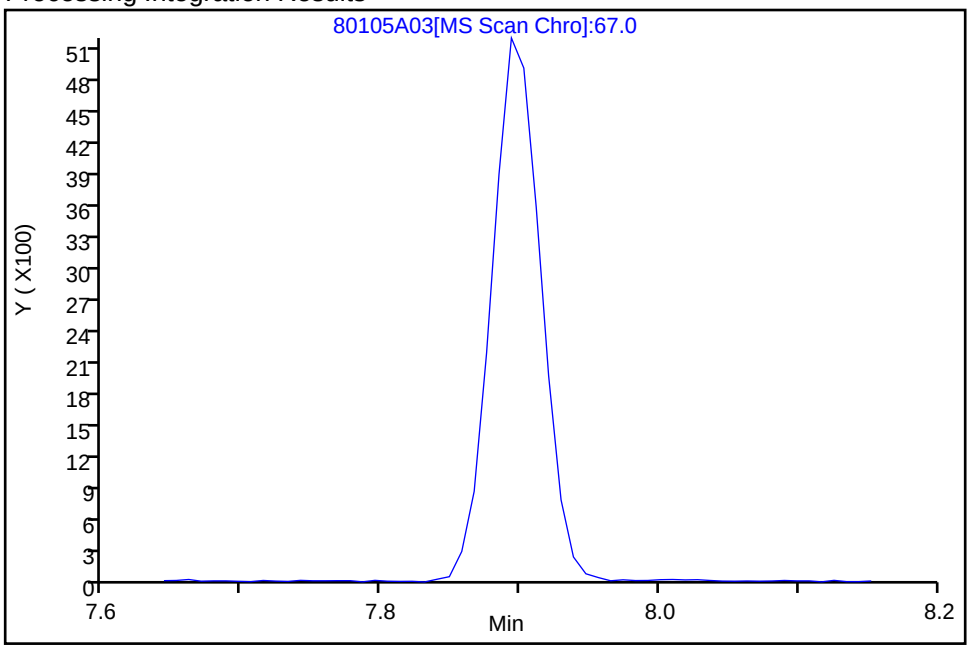
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A03.D		
Injection Date:	05-Jan-2016 14:25:30	Inst. ID:	msd8.i
Client ID:	VBLKVU	Lab ID:	VBLKVU
Sample Info:	8010516.b, VBLKVU		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

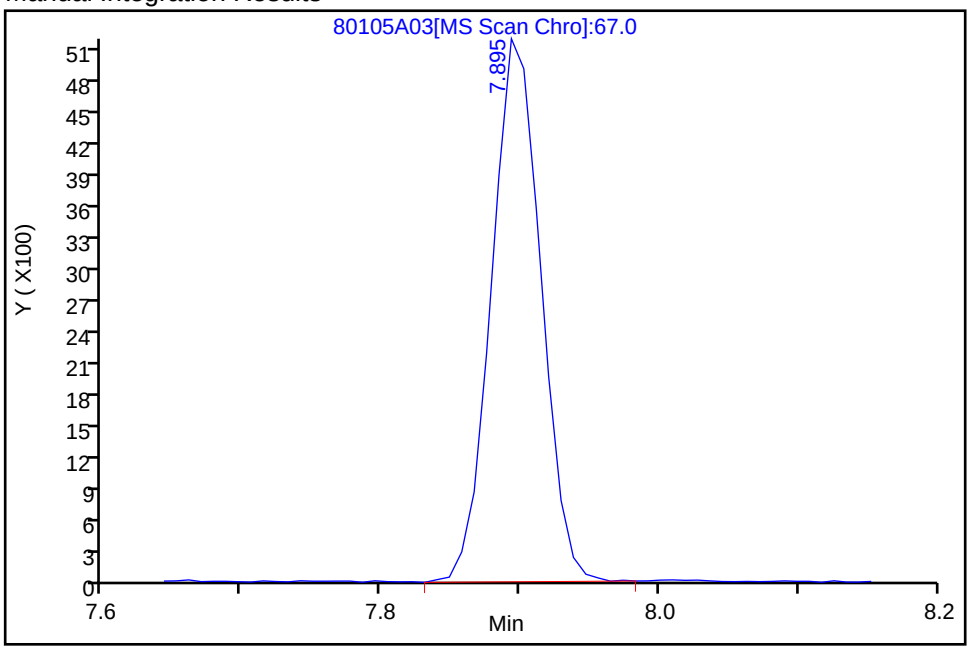
Not Detected
7.895

Processing Integration Results



Manual Integration Results

RT:	7.895
Area:	12440
Conc:	0.53370
Conc Units:	ug/L



Data Editor: all, 05-Jan-2016 14:48:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

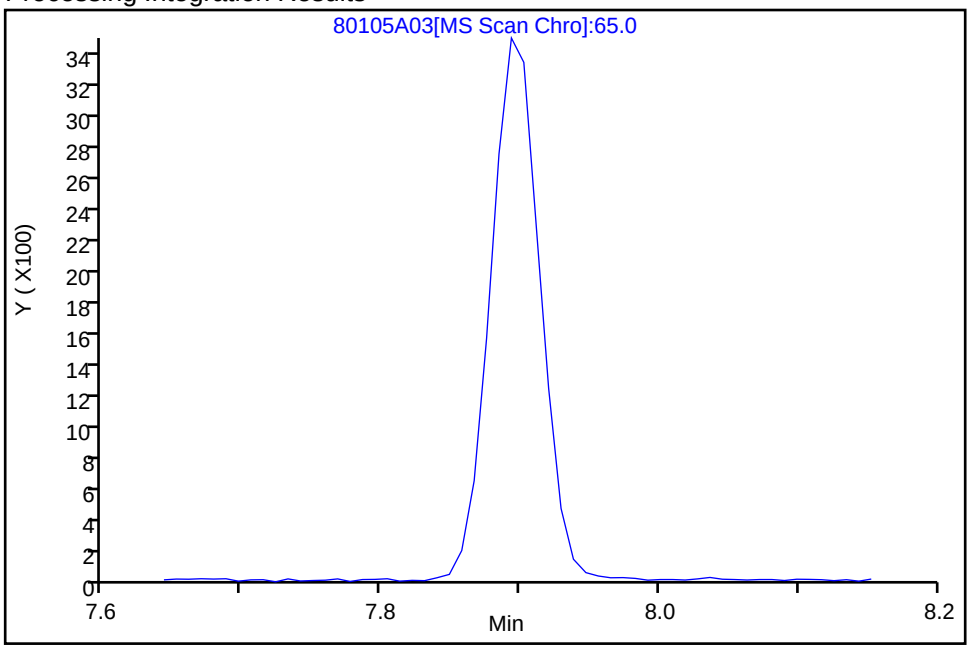
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A03.D		
Injection Date:	05-Jan-2016 14:25:30	Inst. ID:	msd8.i
Client ID:	VBLKVU	Lab ID:	VBLKVU
Sample Info:	8010516.b, VBLKVU		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

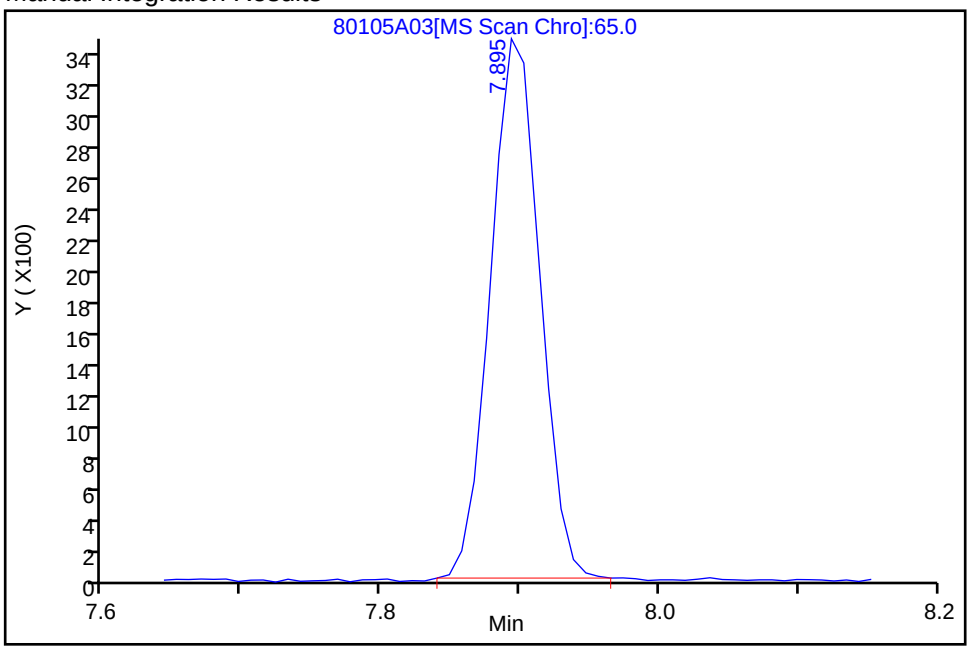
Not Detected
7.895

Processing Integration Results



Manual Integration Results

RT:	7.895
Area:	8200
Conc:	0.53380
Conc Units:	ug/L



Data Editor: all, 05-Jan-2016 14:48:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

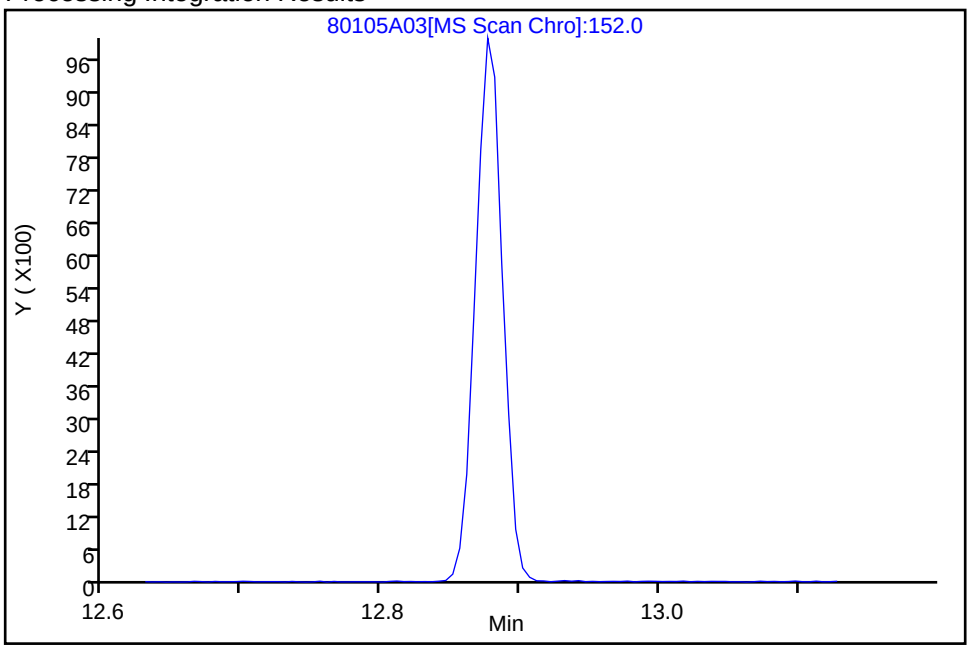
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A03.D		
Injection Date:	05-Jan-2016 14:25:30	Inst. ID:	msd8.i
Client ID:	VBLKVU	Lab ID:	VBLKVU
Sample Info:	8010516.b, VBLKVU		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

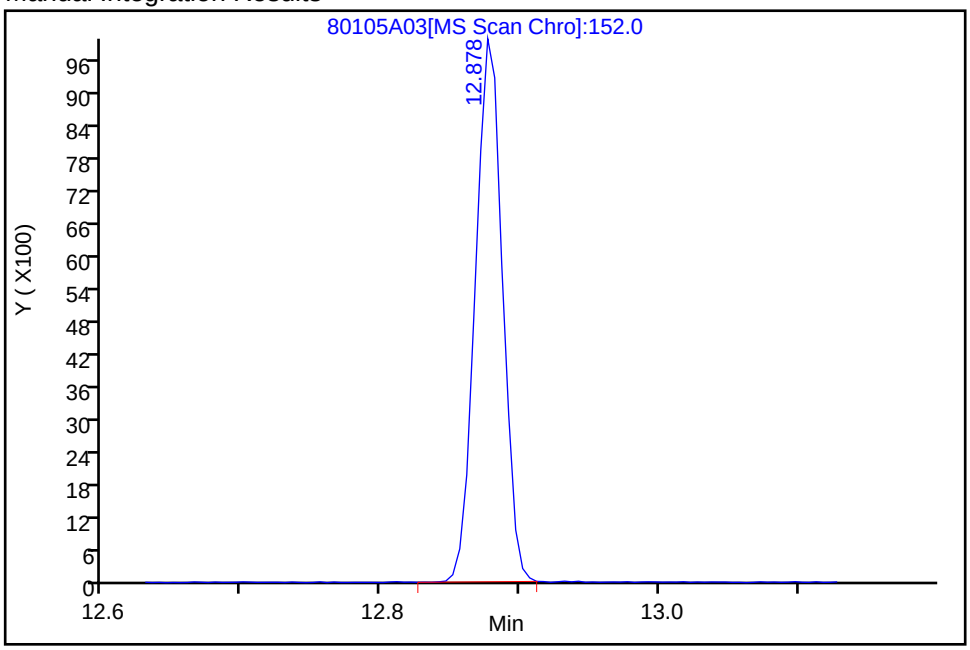
Processing Integration Results

Not Detected
12.878



Manual Integration Results

RT: 12.878
Area: 13308
Conc: 0.50000
Conc Units: ug/L



Data Editor: all, 05-Jan-2016 14:48:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

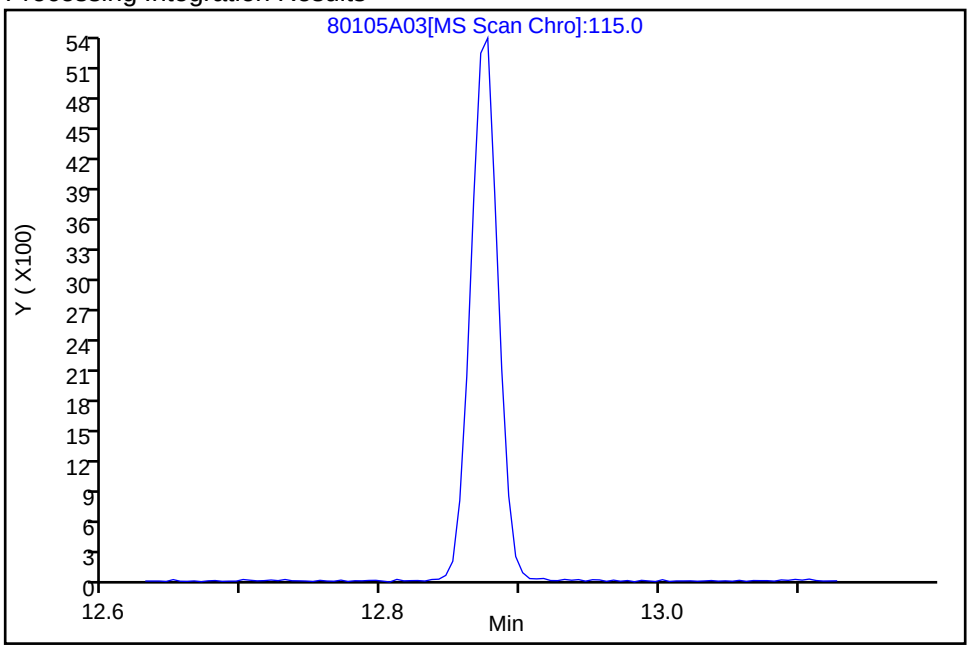
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A03.D		
Injection Date:	05-Jan-2016 14:25:30	Inst. ID:	msd8.i
Client ID:	VBLKVU	Lab ID:	VBLKVU
Sample Info:	8010516.b, VBLKVU		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

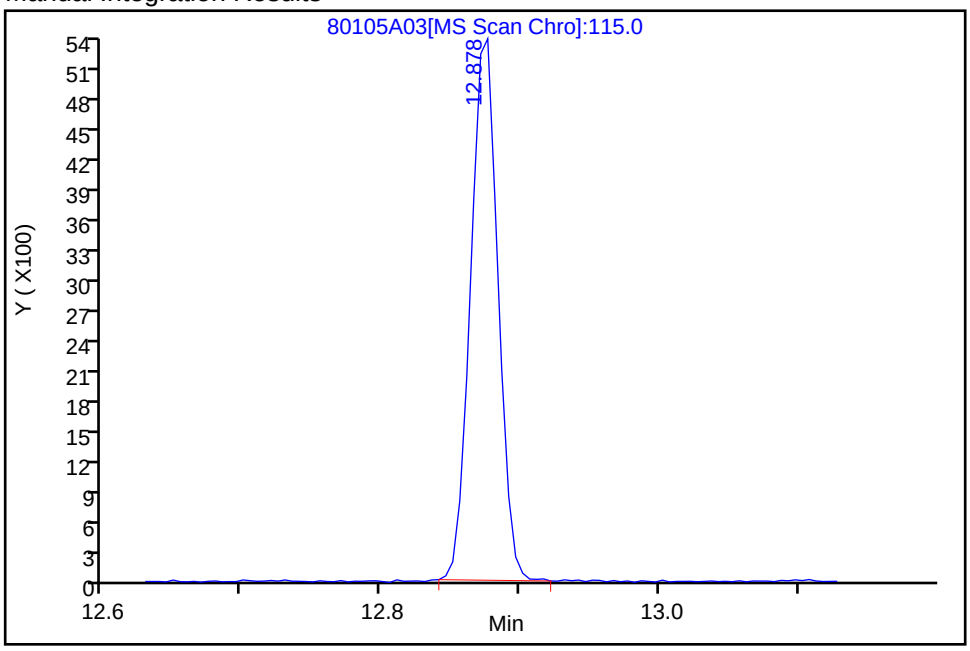
Processing Integration Results

Not Detected
12.873



Manual Integration Results

RT:	12.878
Area:	7186
Conc:	0.50000
Conc Units:	ug/L



Data Editor: all, 05-Jan-2016 14:48:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

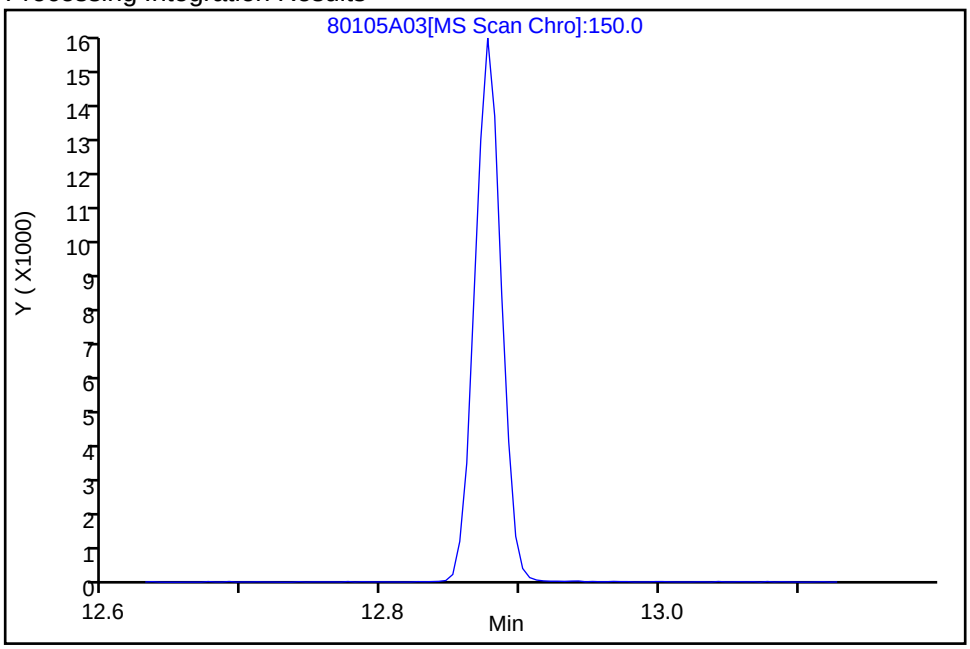
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A03.D		
Injection Date:	05-Jan-2016 14:25:30	Inst. ID:	msd8.i
Client ID:	VBLKVU	Lab ID:	VBLKVU
Sample Info:	8010516.b, VBLKVU		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

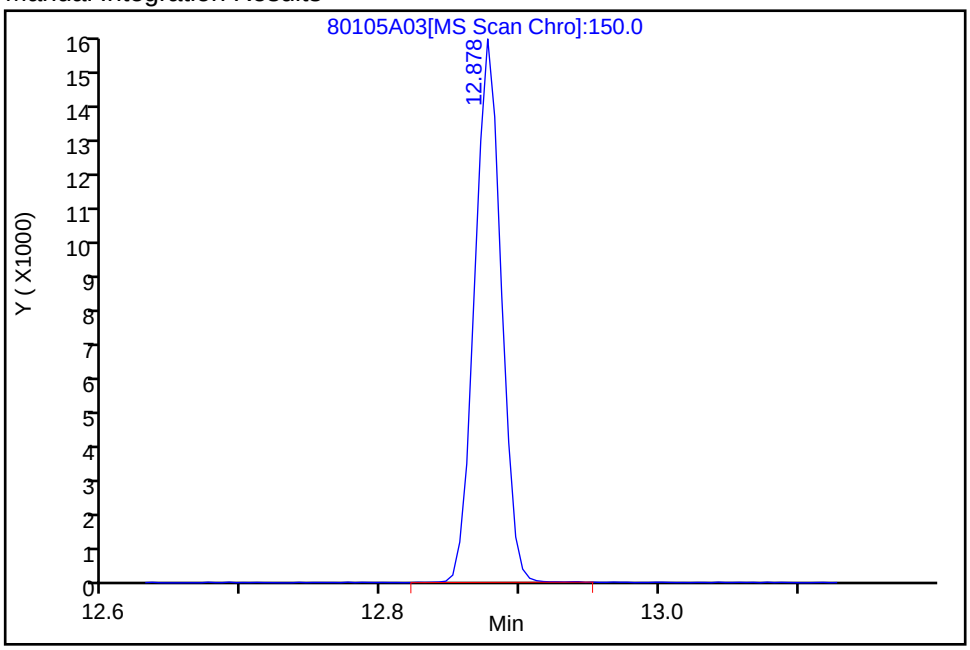
Processing Integration Results

Not Detected
12.878



Manual Integration Results

RT:	12.878
Area:	20921
Conc:	0.50000
Conc Units:	ug/L



Data Editor: all, 05-Jan-2016 14:48:30
Audit Action: Mint
Audit Reason: NOID

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QL16010-008

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 80105A04

% Solids: Date Received:

GC Column: DB-624 ID: 0.25 (mm) Date Extracted:

GC Column: ID: (mm) Date Analyzed: 01/05/2016

Extract Concentrated: (Y/N) Extract Volume: (uL)

Soil Aliquot (VOA): (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: (uL)

Purge Volume: 25.0 (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
67-66-3	Chloroform	0.074	B
56-23-5	Carbon tetrachloride	0.050	U
71-43-2	Benzene	0.050	U
107-06-2	1,2-Dichloroethane	0.050	U
78-87-5	1,2-Dichloropropane	0.050	U
75-27-4	Bromodichloromethane	0.050	U
10061-01-5	cis-1,3-Dichloropropene	0.050	U
79-00-5	1,1,2-Trichloroethane	0.050	U
591-78-6	2-Hexanone	0.50	U
106-93-4	1,2-Dibromoethane	0.050	U
79-34-5	1,1,2,2-Tetrachloroethane	0.050	U
106-46-7	1,4-Dichlorobenzene	0.050	U
96-12-8	1,2-Dibromo-3-chloropropane	0.050	U
120-82-1	1,2,4-Trichlorobenzene	0.050	U
87-61-6	1,2,3-Trichlorobenzene	0.050	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A04.D		
Lab Sample ID:	QL16010-008	Client Sample ID:	VHBLK01
Injection Date:	05-Jan-2016 15:06:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8010516.b, QL16010-008		
Method:	\\Organics\DD\chem\msd8.i\8010516.b\SIM2545-8.m		
Method Date:	05-Jan-2016 15:22:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	4
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	05-Jan-2016 15:25:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 23 Chloroform-d	84.0	6.096	6.097	0.000	31112	0.51635	0.51630	Q
24 Chloroform	83.0	6.119	6.123	-0.004	12788	0.07367	0.07360	
27 Carbon Tetrachloride	117.0		6.596		ND			
$ 29 1,2-Dichloroethane-d4	65.0	6.775	6.776	-0.001	8204	0.43132	0.43130	
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	39002	0.53092	0.53090	
31 Benzene	78.0		6.865		ND			
32 1,2-Dichloroethane	62.0		6.882		ND			
* 33 1,4-Difluorobenzene	114.0	7.371	7.372	-0.001	37409	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.904	7.895	0.009	11908	0.51539	0.51530	M
37 1,2-Dichloropropane	63.0		8.020		ND			
39 Bromodichloromethane	83.0		8.384		ND			
40 cis-1,3-Dichloropropene	75.0		8.996		ND			
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.658	9.659	-0.001	7617	0.46106	0.46100	
46 1,1,2-Trichloroethane	97.0		9.906		ND			
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	5384	2.9641	2.9640	Q
50 2-Hexanone	43.0		10.184		ND			
52 1,2-Dibromoethane	107.0		10.454		ND			
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	27263	0.50000	0.50000	
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	4197	0.41945	0.41940	
64 1,1,2,2-Tetrachloroethane	83.0		12.069		ND			
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	13269	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0		13.173		ND			
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	11401	0.49944	0.49940	
80 1,2-Dibromo-3-chloropropane	75.0		13.722		ND			
82 1,2,4-Trichlorobenzene	180.0		14.302		ND			
84 1,2,3-Trichlorobenzene	180.0		14.668		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A04.D		
Lab Sample ID:	QL16010-008	Client Sample ID:	VHBLK01
Injection Date:	05-Jan-2016 15:06:30	Dil. Factor:	1.0
Operator:	ALL	Inst. ID:	msd8.i
Sample Info:	8010516.b, QL16010-008		
Method:	\\Organics\DD\chem\msd8.i\8010516.b\SIM2545-8.m		
Method Date:	05-Jan-2016 15:22:30	Quant Method:	ISTD
Calib Date:	23-Dec-2015 02:25:30	Calib File:	81222C08.D
Sample Type:	Client	ALS Bottle:	4
Cpnd Sublist:	2545.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1:	DB-624 (0.25 mm)	Detector:	MS Scan
Data Reviewer:	all	Review Date:	05-Jan-2016 15:25:30

Tentative Identified Compound Results

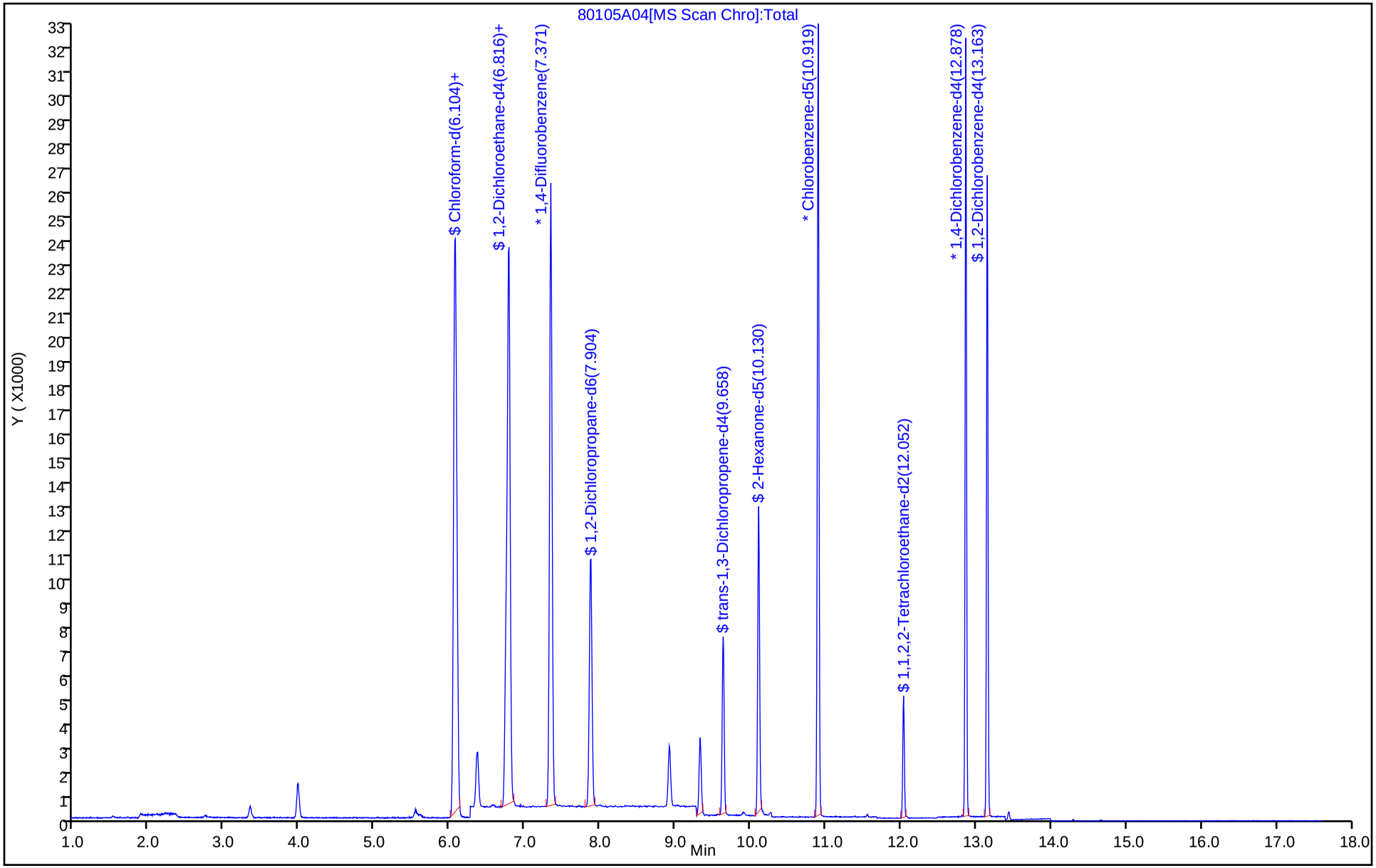
RT	Response	Amount ug/L	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight

Quant. Compounds	RT	Response	Amount ug/L

Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A04.D				
Injection Date:	05-Jan-2016 15:06:30	Inst. ID:	msd8.i	Operator:	ALL
Client ID:	VHBLK01	Lab ID:	QL16010-008		
Sample Info:	8010516.b, QL16010-008				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		

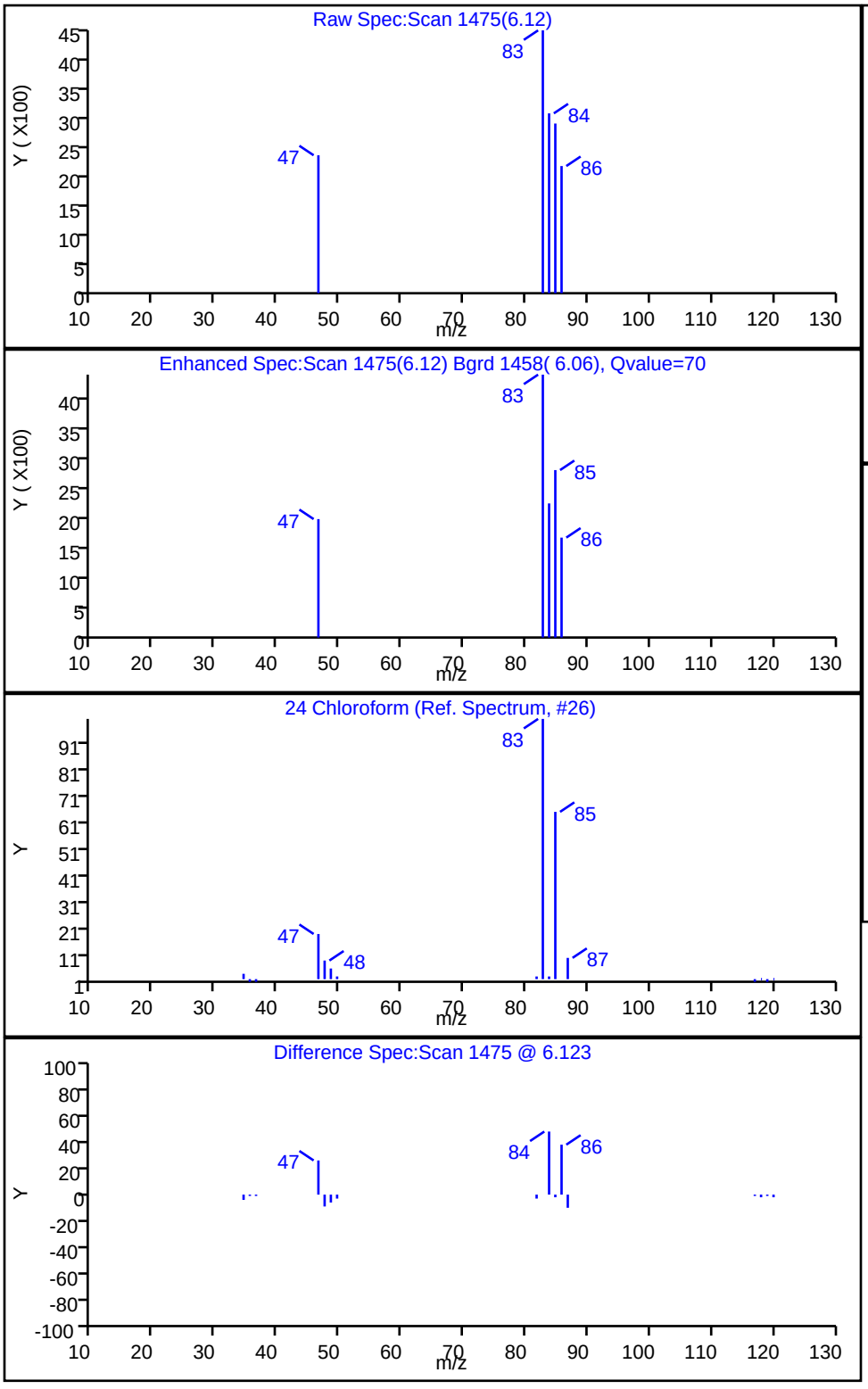


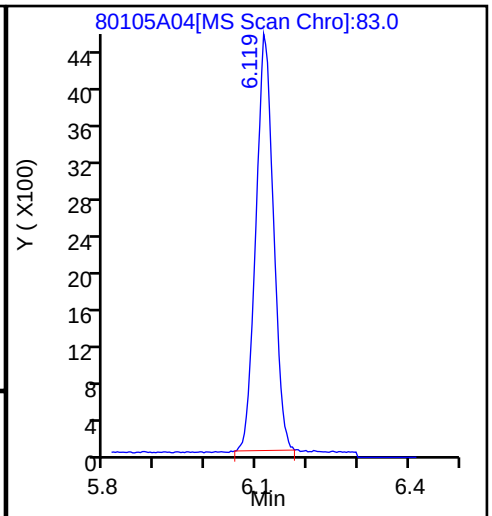
Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

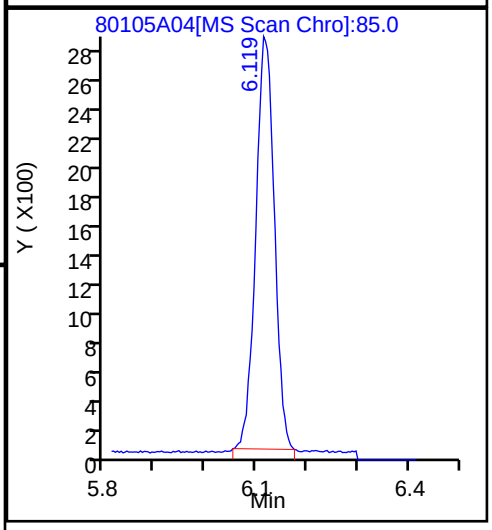
Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A04.D		
Injection Date:	05-Jan-2016 15:06:30	Inst. ID:	msd8.i
Client ID:	VHBLK01	Lab ID:	QL16010-008
Sample Info:	8010516.b, QL16010-008		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

24 Chloroform







Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

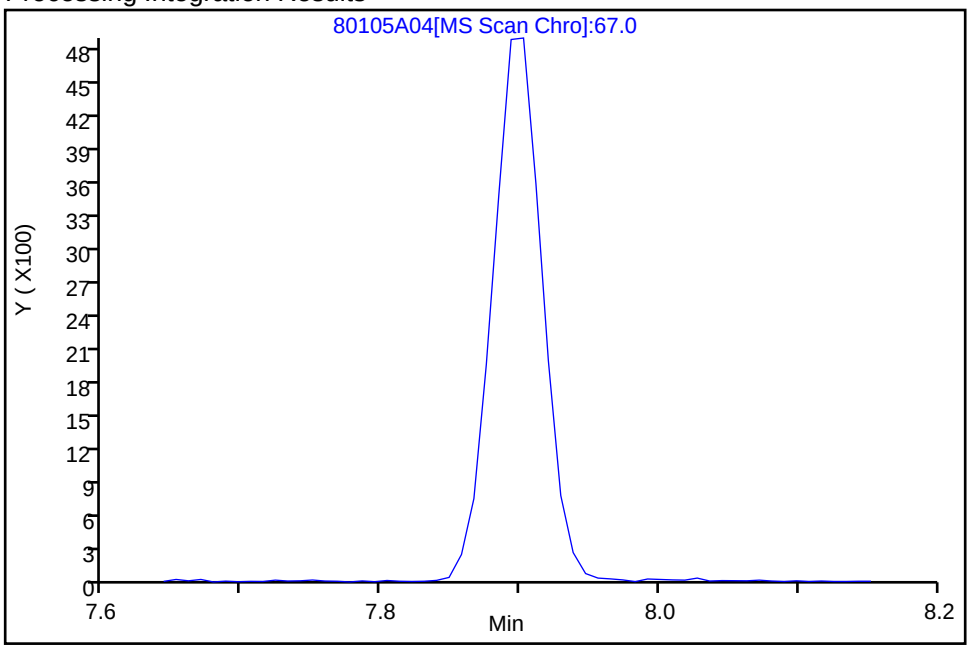
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A04.D		
Injection Date:	05-Jan-2016 15:06:30	Inst. ID:	msd8.i
Client ID:	VHBLK01	Lab ID:	QL16010-008
Sample Info:	8010516.b, QL16010-008		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

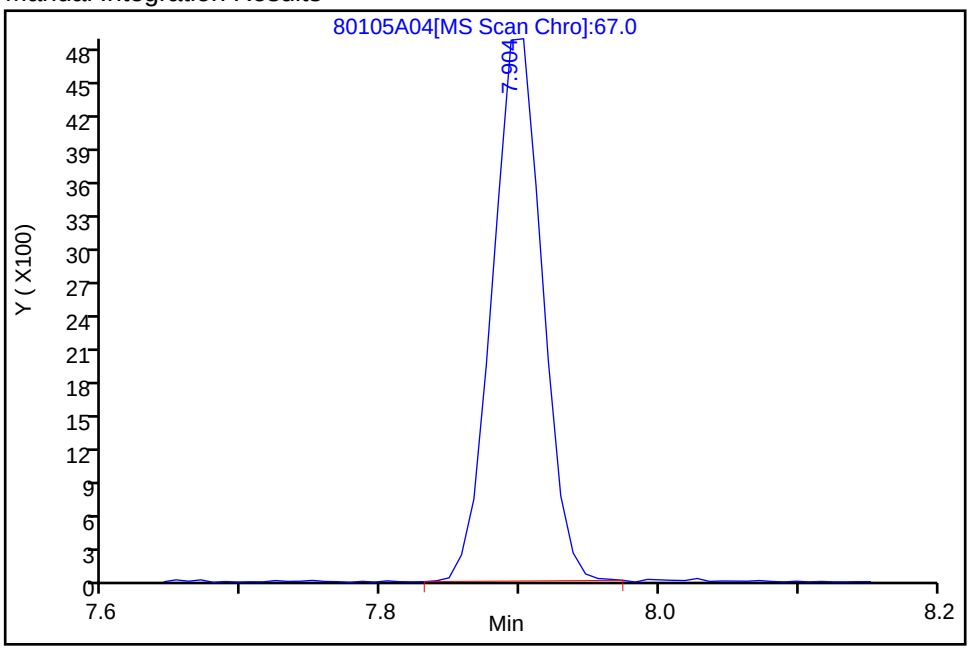
Processing Integration Results

Not Detected
7.895



Manual Integration Results

RT:	7.904
Area:	11908
Conc:	0.51530
Conc Units:	ug/L



Data Editor: all, 05-Jan-2016 15:25:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

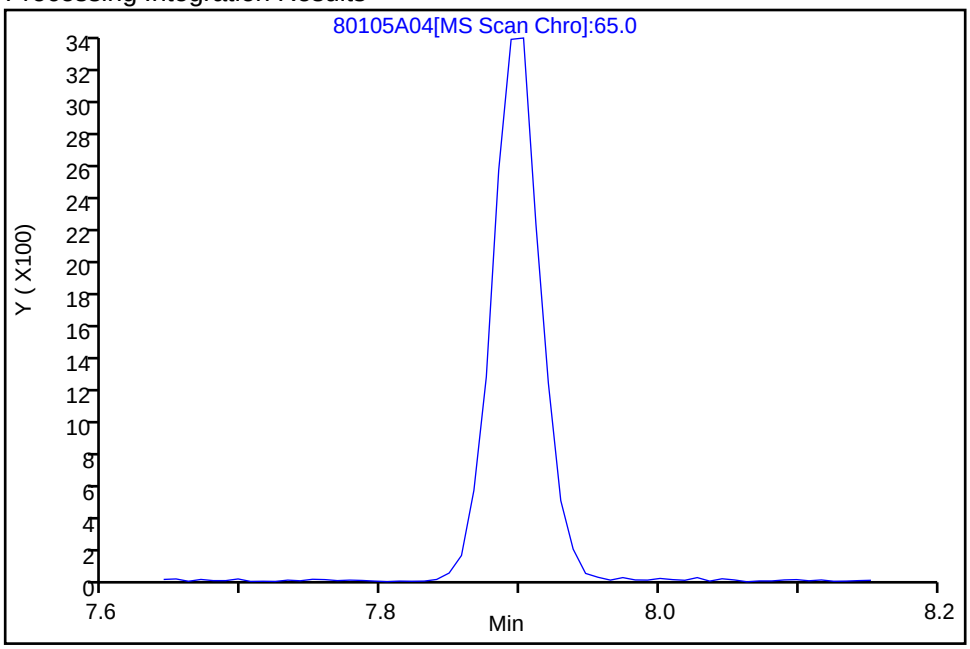
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A04.D		
Injection Date:	05-Jan-2016 15:06:30	Inst. ID:	msd8.i
Client ID:	VHBLK01	Lab ID:	QL16010-008
Sample Info:	8010516.b, QL16010-008		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

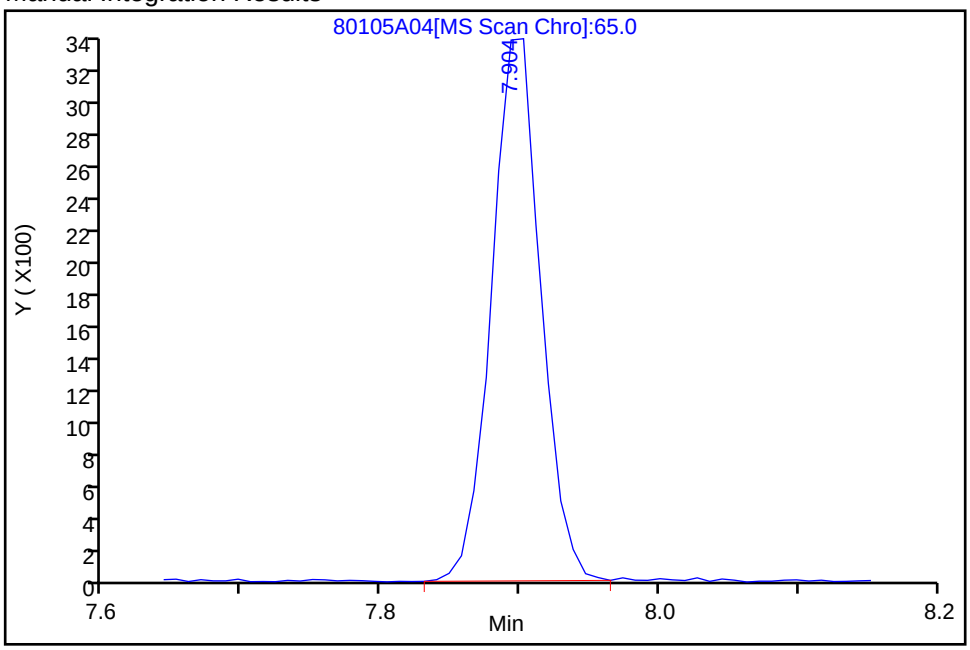
Processing Integration Results

Not Detected
7.895



Manual Integration Results

RT:	7.904
Area:	7945
Conc:	0.51539
Conc Units:	ug/L



Data Editor: all, 05-Jan-2016 15:25:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

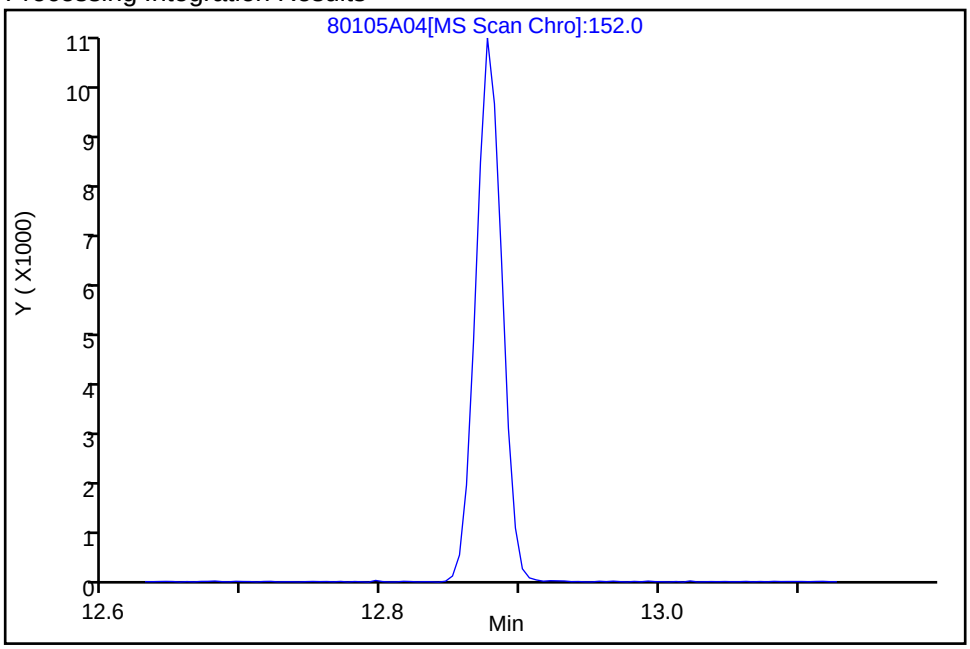
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A04.D		
Injection Date:	05-Jan-2016 15:06:30	Inst. ID:	msd8.i
Client ID:	VHBLK01	Lab ID:	QL16010-008
Sample Info:	8010516.b, QL16010-008		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

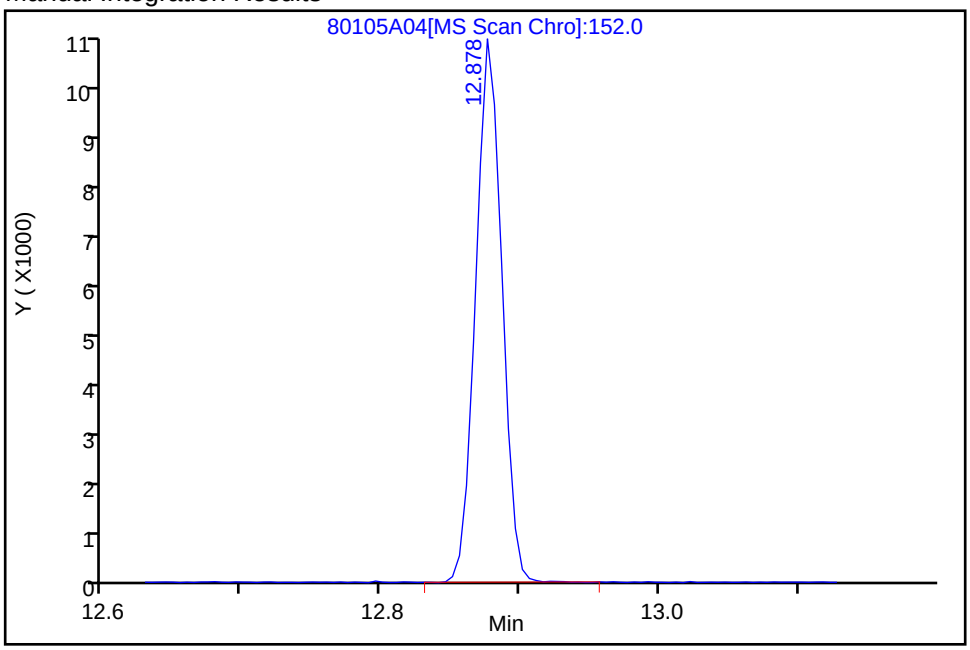
Not Detected
12.878

Processing Integration Results



Manual Integration Results

RT:	12.878
Area:	13269
Conc:	0.50000
Conc Units:	ug/L



Data Editor: all, 05-Jan-2016 15:25:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

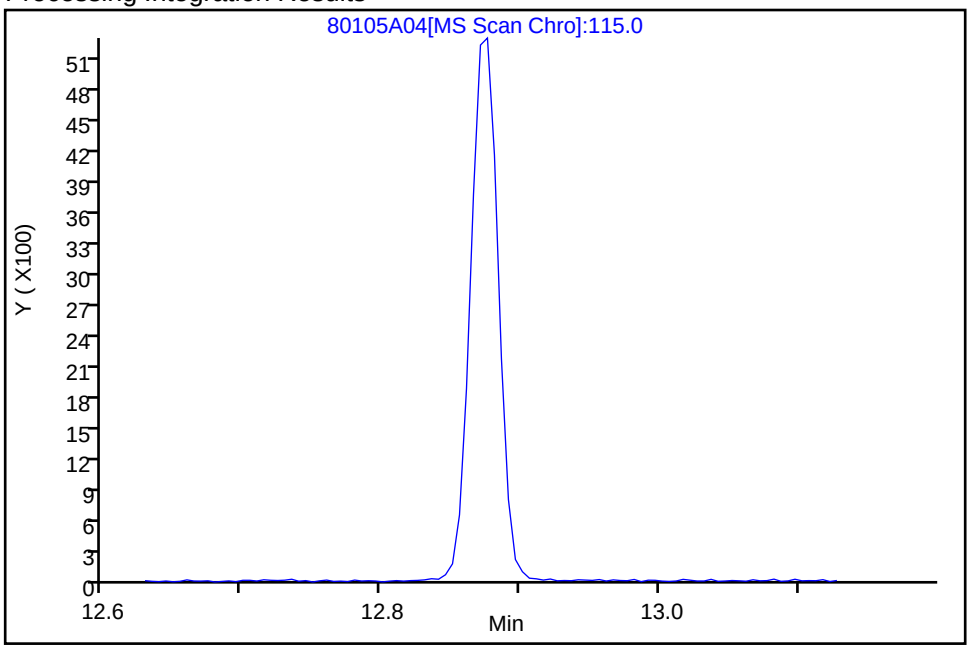
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A04.D		
Injection Date:	05-Jan-2016 15:06:30	Inst. ID:	msd8.i
Client ID:	VHBLK01	Lab ID:	QL16010-008
Sample Info:	8010516.b, QL16010-008		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

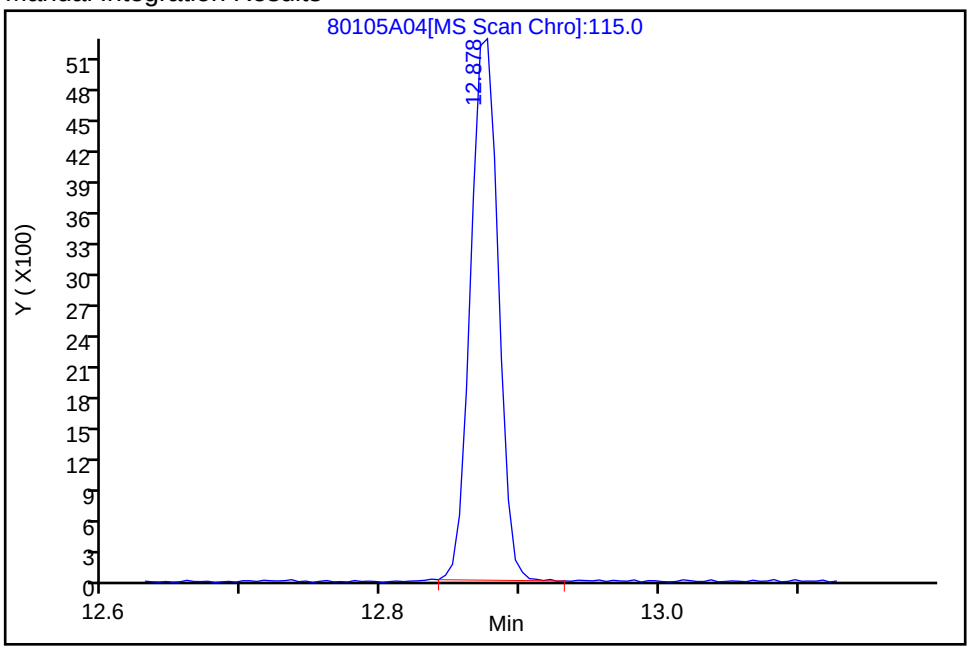
Not Detected
12.878

Processing Integration Results



Manual Integration Results

RT:	12.878
Area:	7134
Conc:	0.50000
Conc Units:	ug/L



Data Editor: all, 05-Jan-2016 15:25:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 08:54:31 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

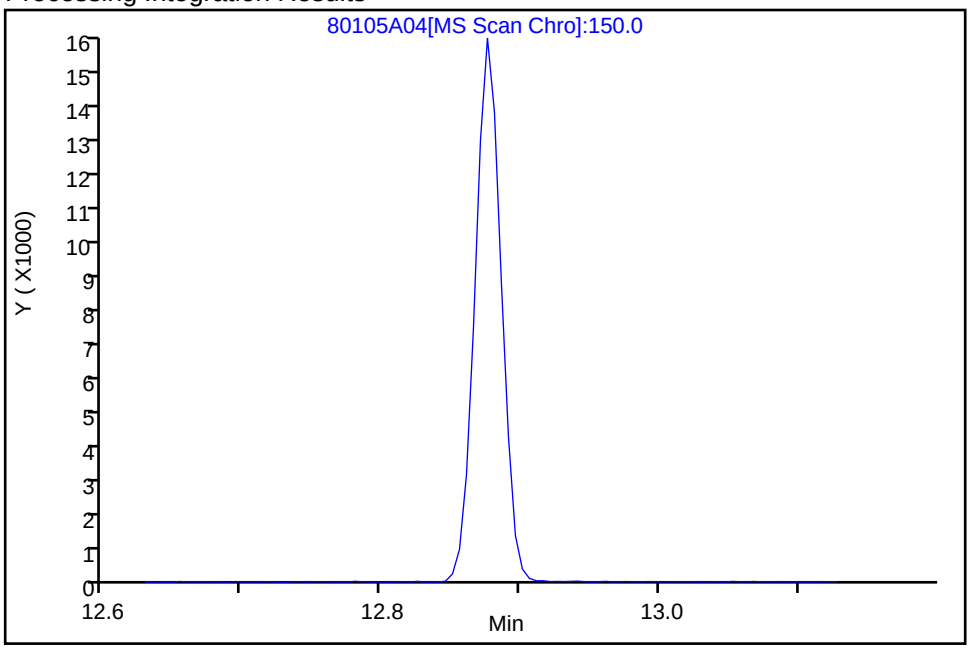
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8010516.b\80105A04.D		
Injection Date:	05-Jan-2016 15:06:30	Inst. ID:	msd8.i
Client ID:	VHBLK01	Lab ID:	QL16010-008
Sample Info:	8010516.b, QL16010-008		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	ALL		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

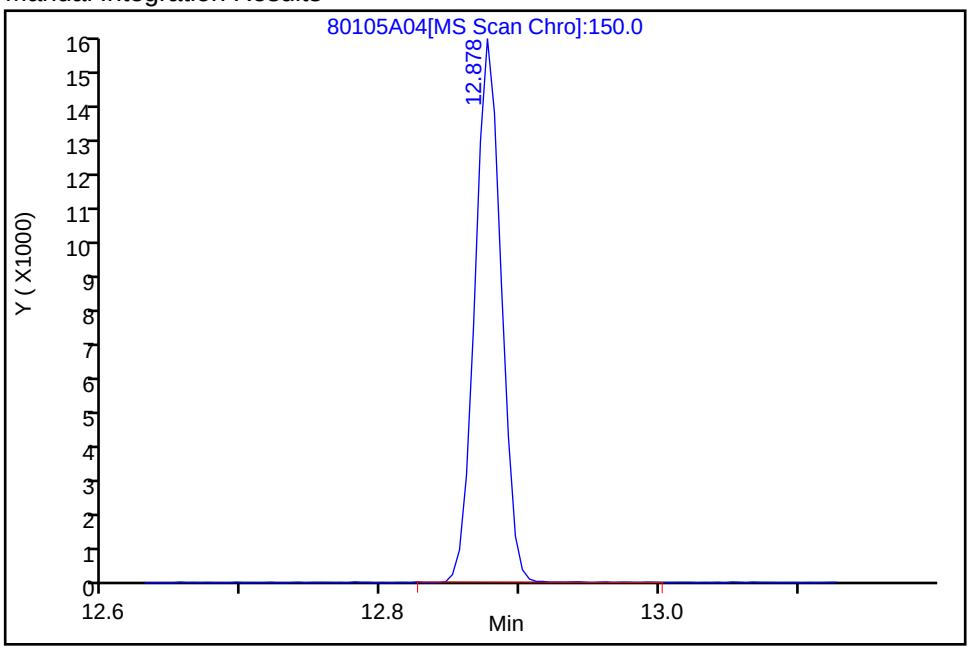
Not Detected
12.878

Processing Integration Results



Manual Integration Results

RT:	12.878
Area:	20736
Conc:	0.50000
Conc Units:	ug/L



Data Editor: all, 05-Jan-2016 15:25:30
Audit Action: Mint
Audit Reason: NOID

LCS Data

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VLCSSK

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2545.1 SDG No.: F6R29

Analytical Method: VOA SIM Level: TRACE

Matrix: Water Lab Sample ID: QQ92901-002

Sample wt/vol: 25.0 (g/mL) mL Lab File ID: 81222C11

% Solids: Date Received:

GC Column: DB-624 ID: 0.25 (mm) Date Extracted:

GC Column: ID: (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) Extract Volume: (uL)

Soil Aliquot (VOA): (uL) Extraction Type: PT

Heated Purge: (Y/N) N Injection Volume: (uL)

Purge Volume: 25.0 (mL) pH: Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
67-66-3	Chloroform	0.11	B
56-23-5	Carbon tetrachloride	0.050	
71-43-2	Benzene	0.043	J
107-06-2	1,2-Dichloroethane	0.049	J
78-87-5	1,2-Dichloropropane	0.048	J
75-27-4	Bromodichloromethane	0.046	J
10061-01-5	cis-1,3-Dichloropropene	0.050	
79-00-5	1,1,2-Trichloroethane	0.048	J
591-78-6	2-Hexanone	0.52	
106-93-4	1,2-Dibromoethane	0.043	J
79-34-5	1,1,2,2-Tetrachloroethane	0.048	J
106-46-7	1,4-Dichlorobenzene	0.051	
96-12-8	1,2-Dibromo-3-chloropropane	0.052	
120-82-1	1,2,4-Trichlorobenzene	0.044	J
87-61-6	1,2,3-Trichlorobenzene	0.041	J

Shealy Environmental Services
LCS, Lab Control Spike Report

Data File: \\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D
Lab Sample ID: VLCSSK Client Sample ID: VLCSSK
Injection Date: 23-Dec-2015 03:45:30 Dil. Factor: 1.0
Operator: JJG Inst. ID: msd8.i
Sample Info: 8122215C.b, VLCSSK
Method: \\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m
Method Date: 23-Dec-2015 11:44:30 Quant Method: ISTD
Calib Date: 23-Dec-2015 02:25:30 Calib File: 81222C08.D
Sample Type: LCS ALS Bottle: 11
Cpnd Sublist: 2545.sub Spike List File: 2545.spk
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Amount Added	Amount Detected	%Drift	%Rec	%Rec Limits
24 Chloroform	0.05	0.1129	125.8	* 225.8	50- 150
27 Carbon Tetrachloride	0.05	0.0502	0.4	100.4	50- 150
31 Benzene	0.05	0.0433	-13.4	86.6	50- 150
32 1,2-Dichloroethane	0.05	0.0485	-3	97	50- 150
37 1,2-Dichloropropane	0.05	0.0484	-3.2	96.8	50- 150
39 Bromodichloromethane	0.05	0.0464	-7.2	92.8	50- 150
40 cis-1,3-Dichloropropene	0.05	0.0503	0.6	100.6	50- 150
46 1,1,2-Trichloroethane	0.05	0.0477	-4.6	95.4	50- 150
50 2-Hexanone	0.5	0.5201	4	104	50- 150
52 1,2-Dibromoethane	0.05	0.0429	-14.2	85.8	50- 150
64 1,1,2,2-Tetrachloroethane	0.05	0.048	-4	96	50- 150
77 1,4-Dichlorobenzene	0.05	0.0509	1.8	101.8	50- 150
80 1,2-Dibromo-3-chloropropane	0.05	0.0521	4.2	104.2	50- 150
82 1,2,4-Trichlorobenzene	0.05	0.044	-12	88	50- 150
84 1,2,3-Trichlorobenzene	0.05	0.0411	-17.8	82.2	50- 150

Shealy Environmental Services
Target Compound Quantitation Report

Data File: \\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D
Lab Sample ID: VLCSSK Client Sample ID: VLCSSK
Injection Date: 23-Dec-2015 03:45:30 Dil. Factor: 1.0
Operator: JJG Inst. ID: msd8.i
Sample Info: 8122215C.b, VLCSSK
Method: \\Organics\DD\chem\msd8.i\8122215C.b\SIM2545-8.m
Method Date: 23-Dec-2015 11:44:30 Quant Method: ISTD
Calib Date: 23-Dec-2015 02:25:30 Calib File: 81222C08.D
Sample Type: LCS ALS Bottle: 11
Cpnd Sublist: 2545.sub Spike List File: 2545.spk
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * 25/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Vo	25.000	Purge Volume in ML
Cpnd Variable		Local Cpnd Variable

Column1: DB-624 (0.25 mm) Detector: MS Scan
Data Reviewer: pap Review Date: 23-Dec-2015 07:53:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/L	Final Conc ug/L	Flags
$ 23 Chloroform-d	84.0	6.097	6.093	0.004	17167	0.51333	0.51330	Q
24 Chloroform	83.0	6.119	6.123	-0.004	10886	0.11300	0.11290	R
27 Carbon Tetrachloride	117.0	6.596	6.596	0.000	1122	0.05029	0.05020	QM
$ 29 1,2-Dichloroethane-d4	65.0	6.776	6.776	0.000	5030	0.47646	0.47640	Q
$ 30 Benzene-d6	84.0	6.816	6.816	0.000	22770	0.53511	0.53510	Q
31 Benzene	78.0	6.865	6.865	0.000	2169	0.04340	0.04330	e
32 1,2-Dichloroethane	62.0	6.882	6.882	0.000	762	0.04859	0.04850	eM
* 33 1,4-Difluorobenzene	114.0	7.372	7.372	0.000	20763	0.50000	0.50000	
$ 35 1,2-Dichloropropane-d6	67.0	7.895	7.904	-0.009	7110	0.53126	0.53120	M
37 1,2-Dichloropropane	63.0	8.011	8.020	-0.009	732	0.04846	0.04840	e
39 Bromodichloromethane	83.0	8.384	8.384	0.000	729	0.04642	0.04640	e
40 cis-1,3-Dichloropropene	75.0	8.996	8.996	0.000	699	0.05034	0.05030	QM
$ 44 trans-1,3-Dichloropropene-d4	79.0	9.659	9.659	0.000	4820	0.50368	0.50360	Q
46 1,1,2-Trichloroethane	97.0	9.911	9.906	0.005	319	0.04775	0.04770	eM
$ 49 2-Hexanone-d5	63.0	10.130	10.130	0.000	4373	4.1562	4.1562	Q
50 2-Hexanone	43.0	10.179	10.184	-0.005	312	0.52015	0.52010	QM
52 1,2-Dibromoethane	107.0	10.459	10.459	0.000	275	0.04294	0.04290	QeM
* 53 Chlorobenzene-d5	117.0	10.919	10.919	0.000	15792	0.50000	0.50000	M
$ 63 1,1,2,2-Tetrachloroethane-d2	84.0	12.052	12.052	0.000	2787	0.48085	0.48080	Q
64 1,1,2,2-Tetrachloroethane	83.0	12.069	12.069	0.000	286	0.04802	0.04800	Qe
* 76 1,4-Dichlorobenzene-d4	152.0	12.878	12.878	0.000	7975	0.50000	0.50000	M
77 1,4-Dichlorobenzene	146.0	12.893	13.173	-0.280	1242	0.05091	0.05090	M
$ 78 1,2-Dichlorobenzene-d4	152.0	13.163	13.163	0.000	6994	0.50976	0.50970	Q
80 1,2-Dibromo-3-chloropropane	75.0	13.728	13.722	0.006	46	0.05216	0.05210	
82 1,2,4-Trichlorobenzene	180.0	14.302	14.302	0.000	737	0.04400	0.04400	eM
84 1,2,3-Trichlorobenzene	180.0	14.668	14.674	-0.006	551	0.04120	0.04110	QeM

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

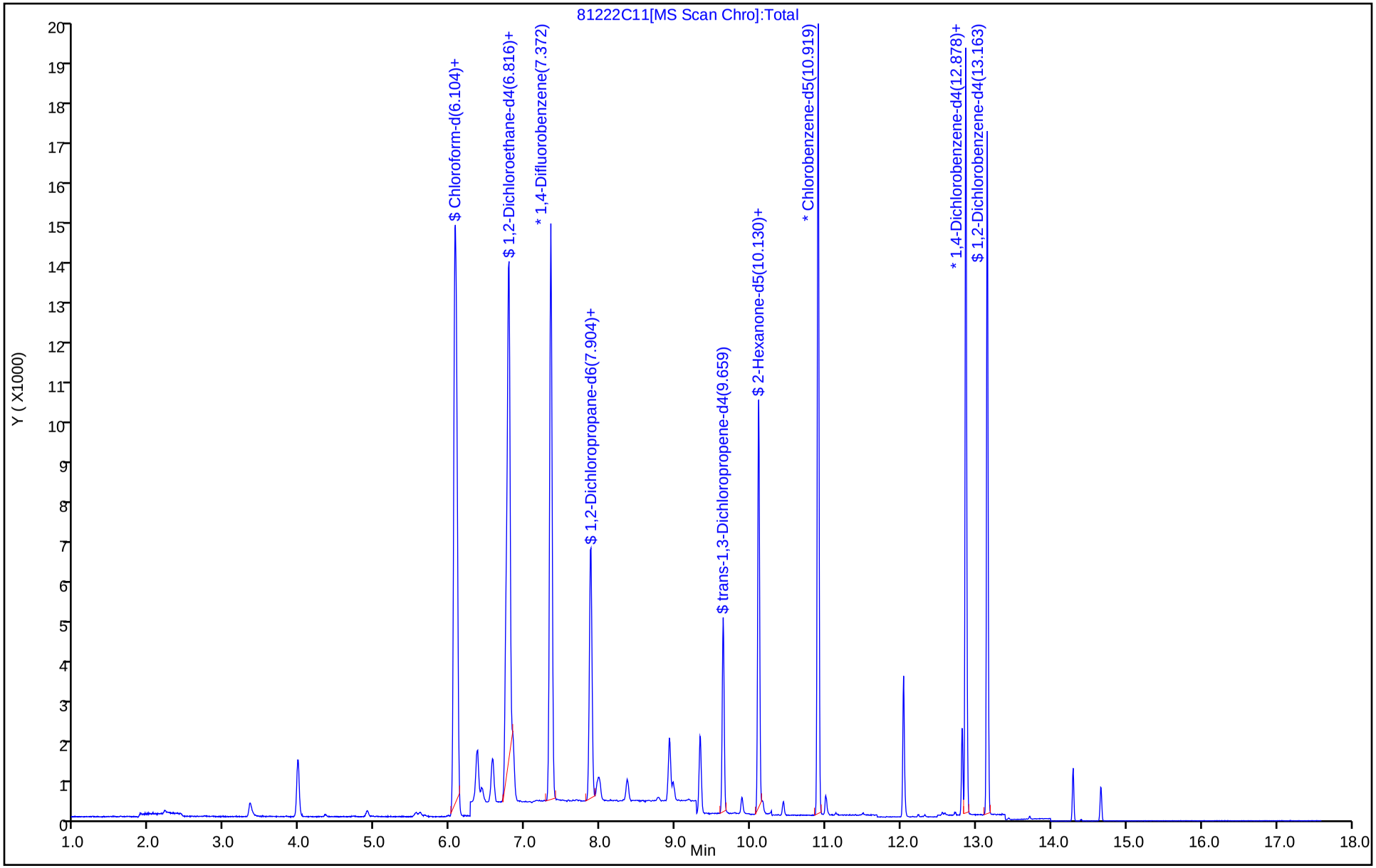
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D				
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i	Operator:	JJG
Client ID:	VLCSSK	Lab ID:	VLCSSK		
Sample Info:	8122215C.b, VLCSSK				
Purge Vol.	25 ML	Dil. Factor:	1.0		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan		



Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

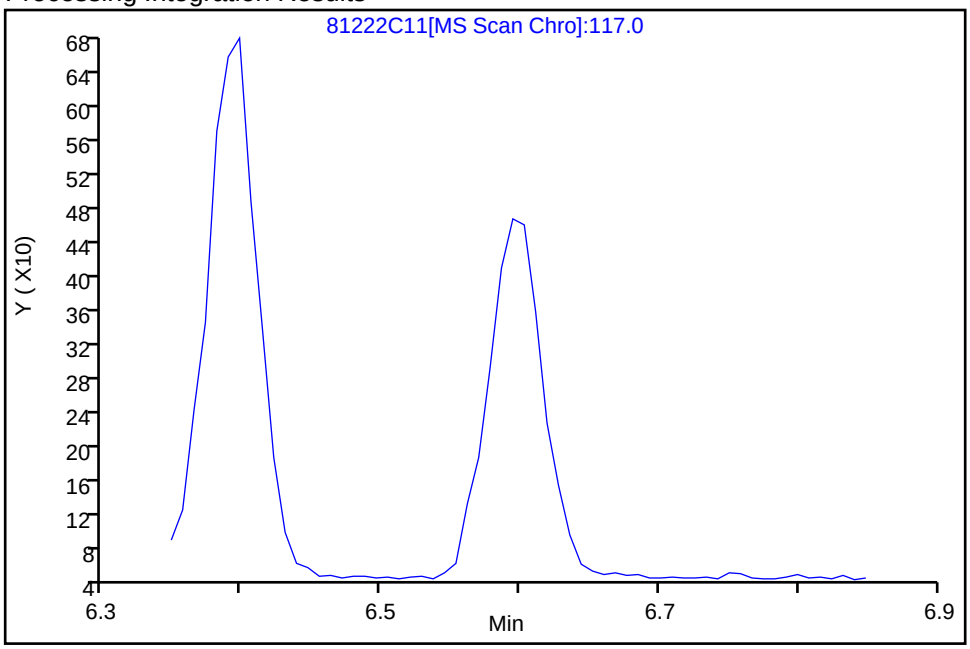
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

27 Carbon Tetrachloride, CAS: 56-23-5

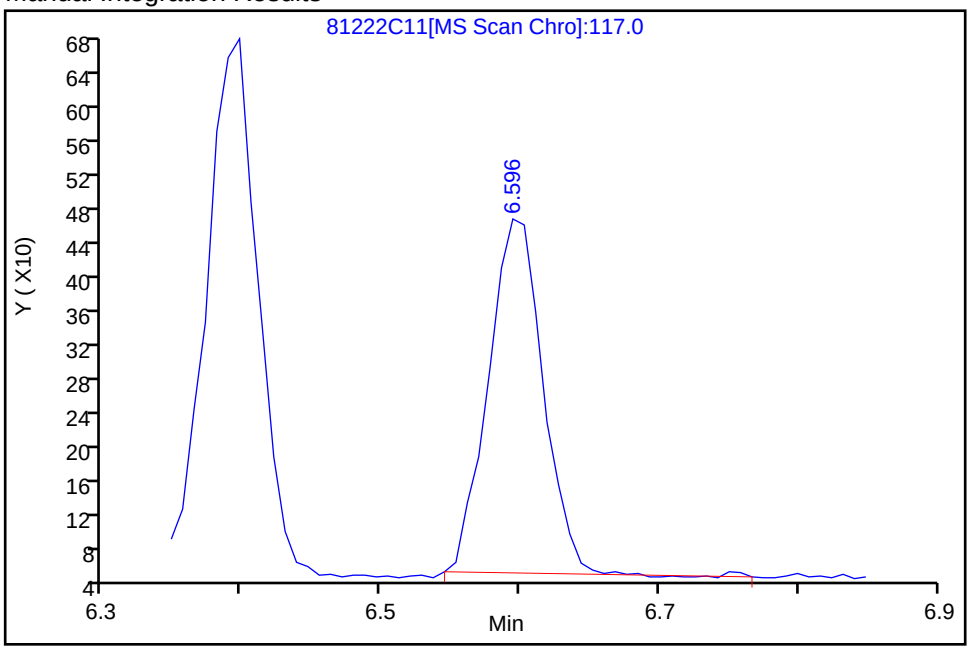
Not Detected
6.596

Processing Integration Results



Manual Integration Results

RT: 6.596
Area: 1122
Conc: 0.05020
Conc Units: ug/L



Data Editor: pap, 23-Dec-2015 07:51:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

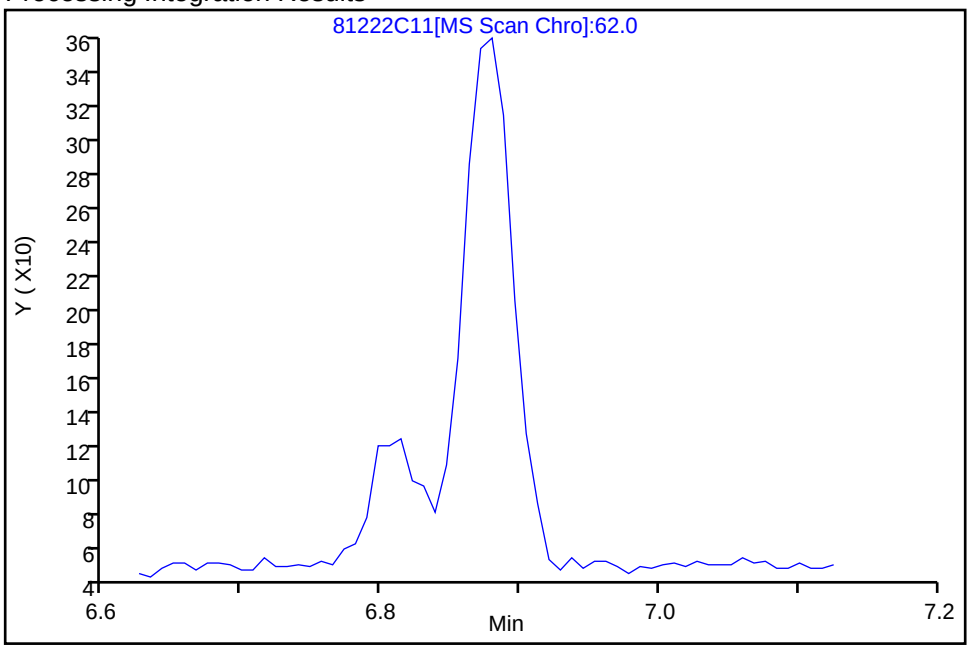
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

32 1,2-Dichloroethane, CAS: 107-06-2

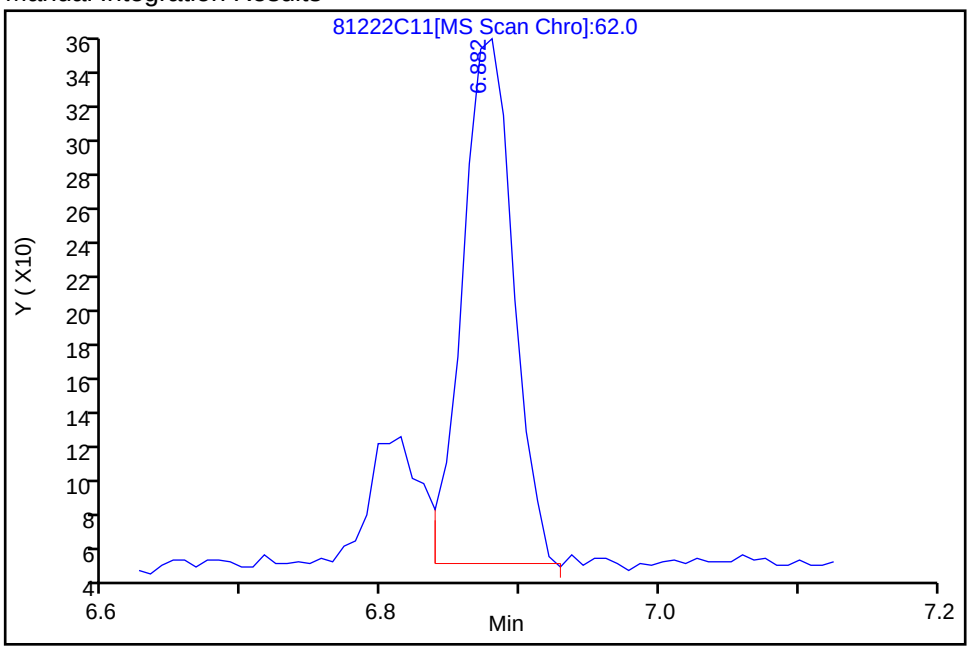
Not Detected
6.882

Processing Integration Results



Manual Integration Results

RT:	6.882
Area:	762
Conc:	0.04850
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:51:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

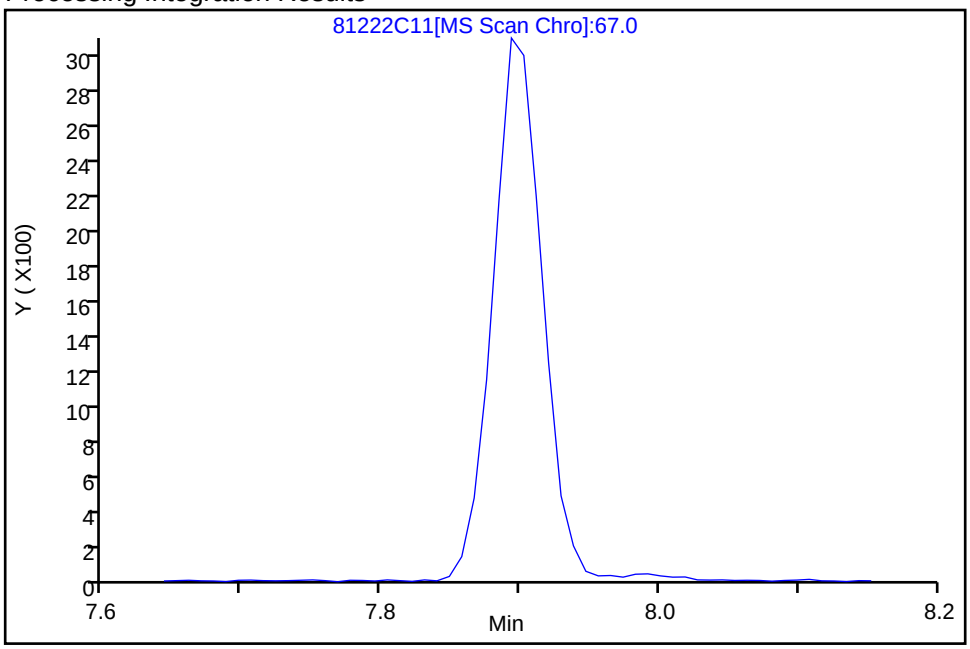
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

$ 35 1,2-Dichloropropane-d6, CAS: 93952-08-0

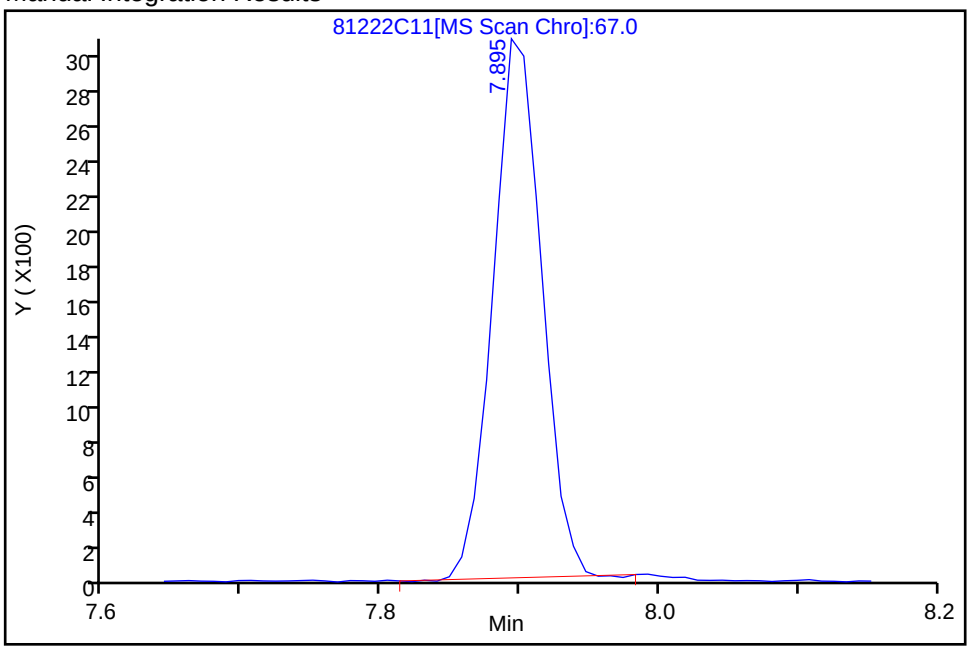
Not Detected
7.904

Processing Integration Results



Manual Integration Results

RT:	7.895
Area:	7110
Conc:	0.53120
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:51:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

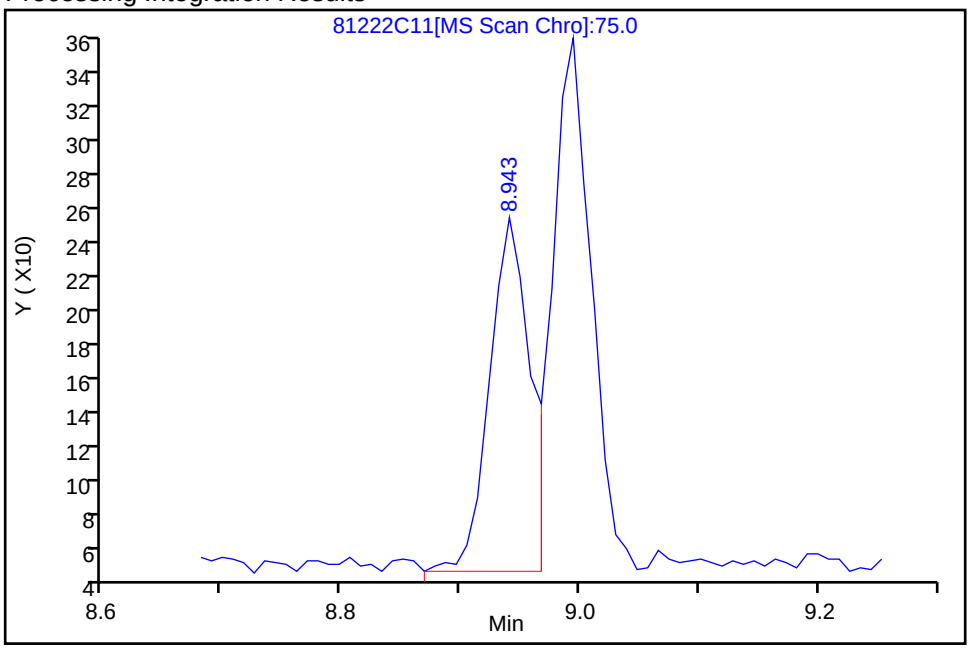
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

40 cis-1,3-Dichloropropene, CAS: 10061-01-5

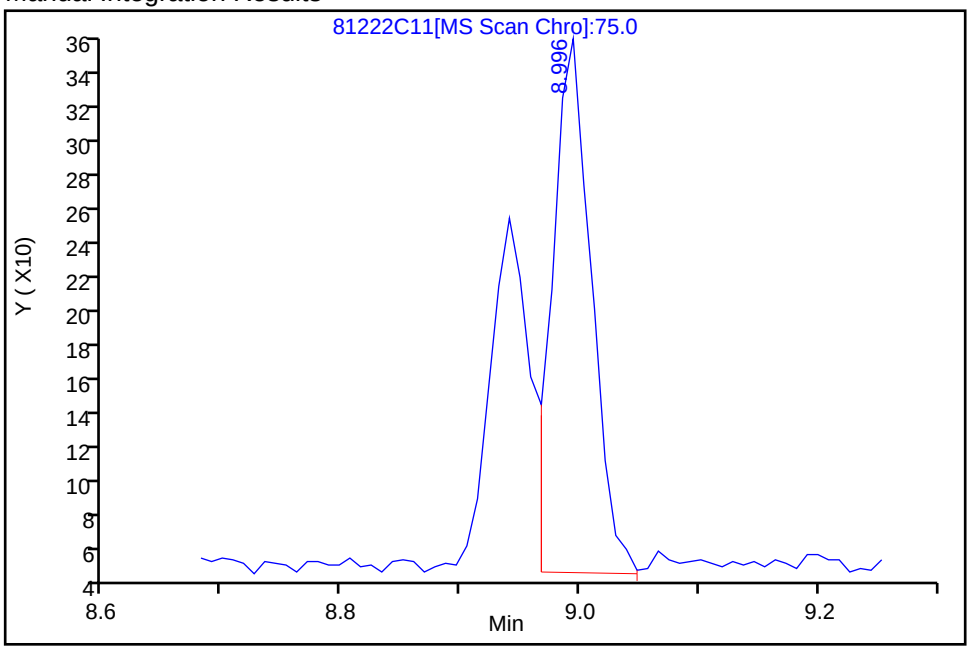
Processing Integration Results

RT: 8.943
Area: 414
Conc: 0
Conc Units: ug/L
Conc:



Manual Integration Results

RT: 8.996
Area: 699
Conc: 0.05030
Conc Units: ug/L



Data Editor: pap, 23-Dec-2015 07:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

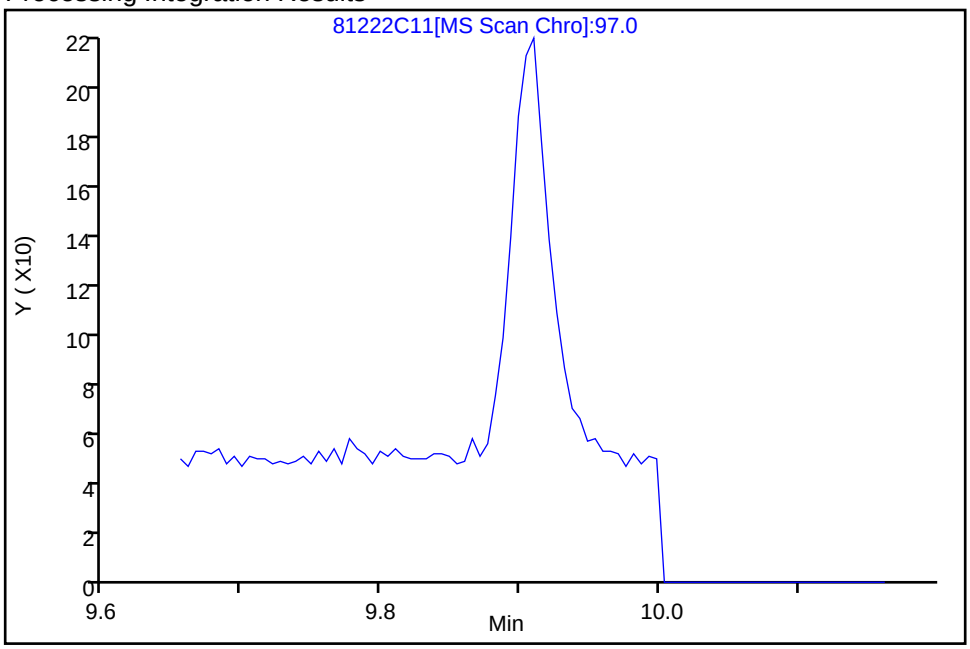
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

46 1,1,2-Trichloroethane, CAS: 79-00-5

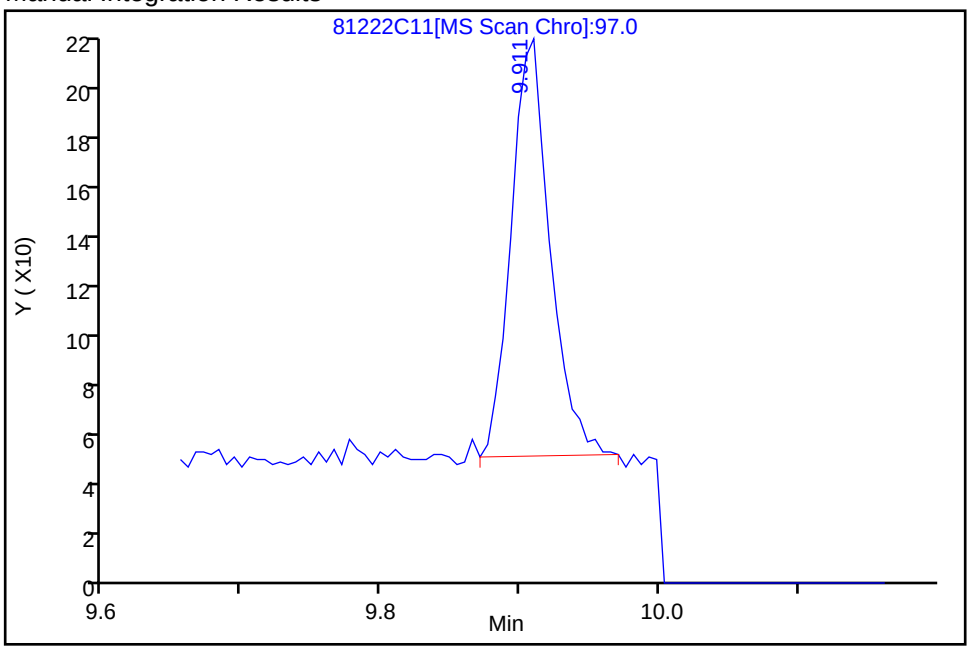
Not Detected
9.906

Processing Integration Results



Manual Integration Results

RT:	9.911
Area:	319
Conc:	0.04770
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

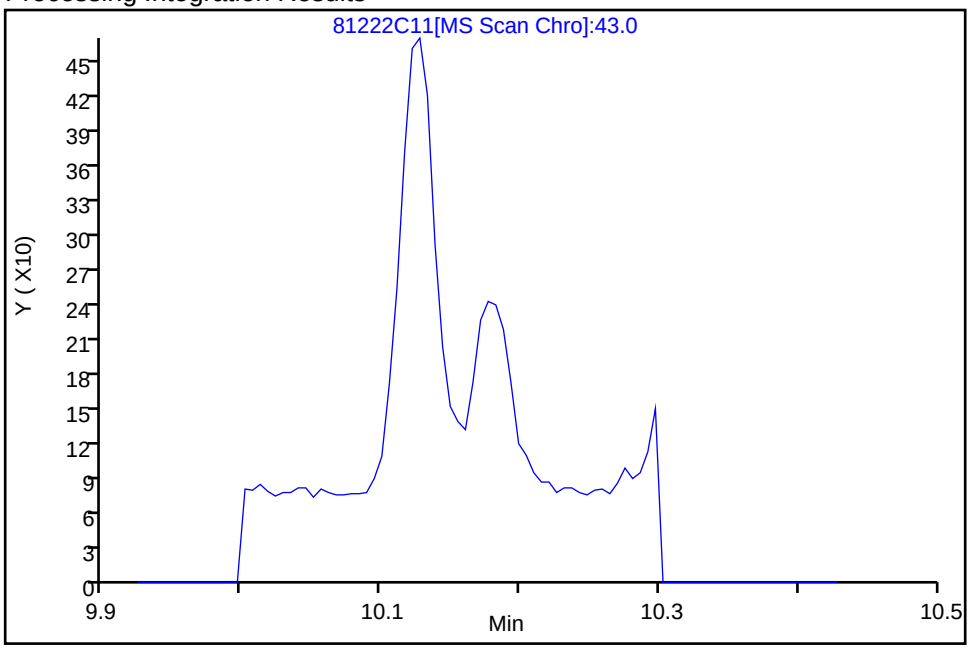
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

50 2-Hexanone, CAS: 591-78-6

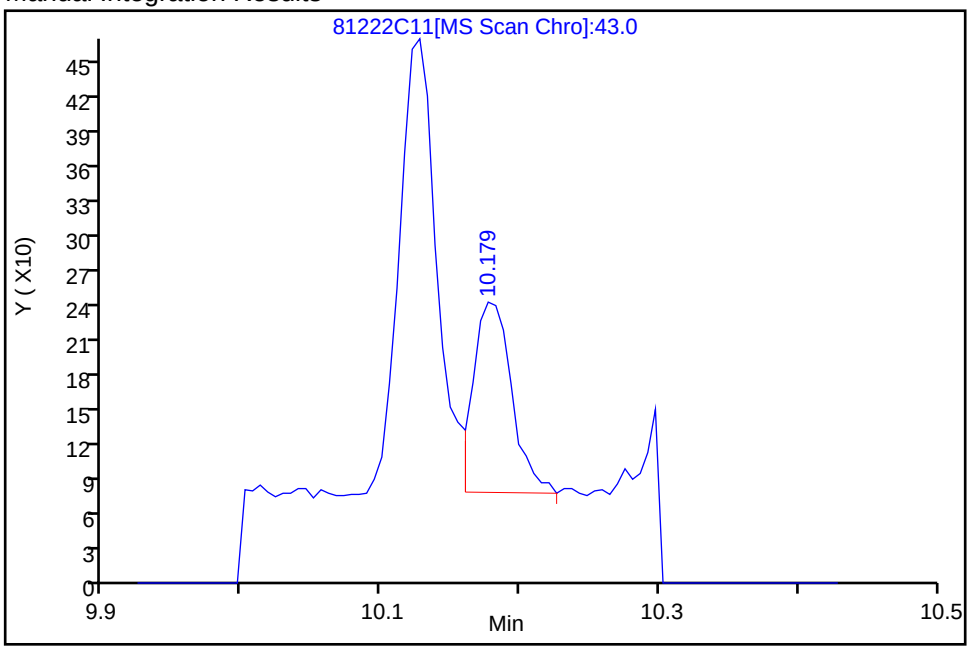
Not Detected
10.184

Processing Integration Results



Manual Integration Results

RT:	10.179
Area:	312
Conc:	0.52010
Conc Units:	ug/L



Data Editor: xiang.zhu, 23-Dec-2015 10:12:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

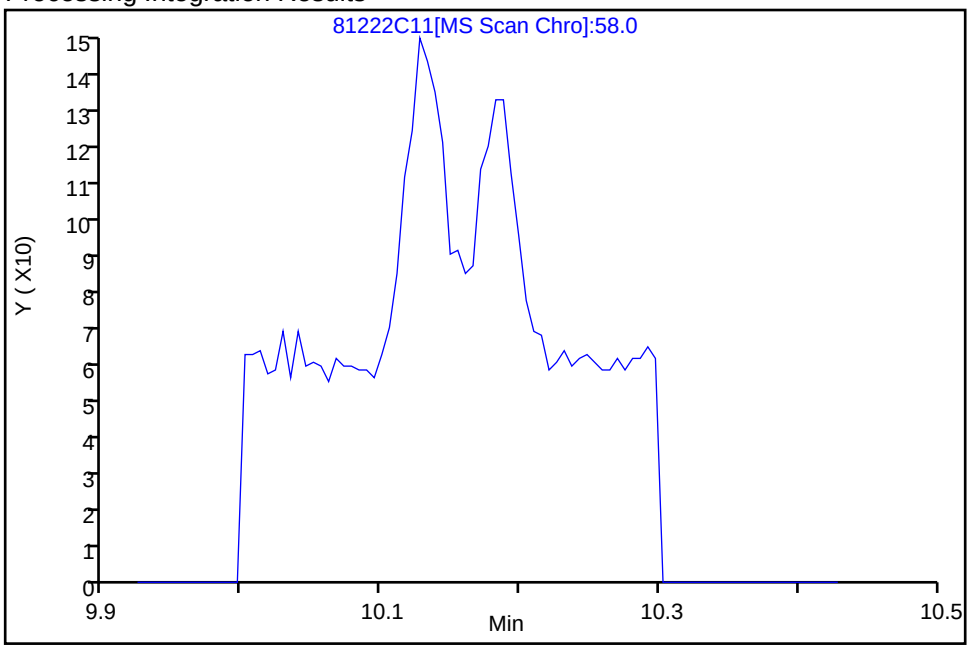
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

50 2-Hexanone, CAS: 591-78-6

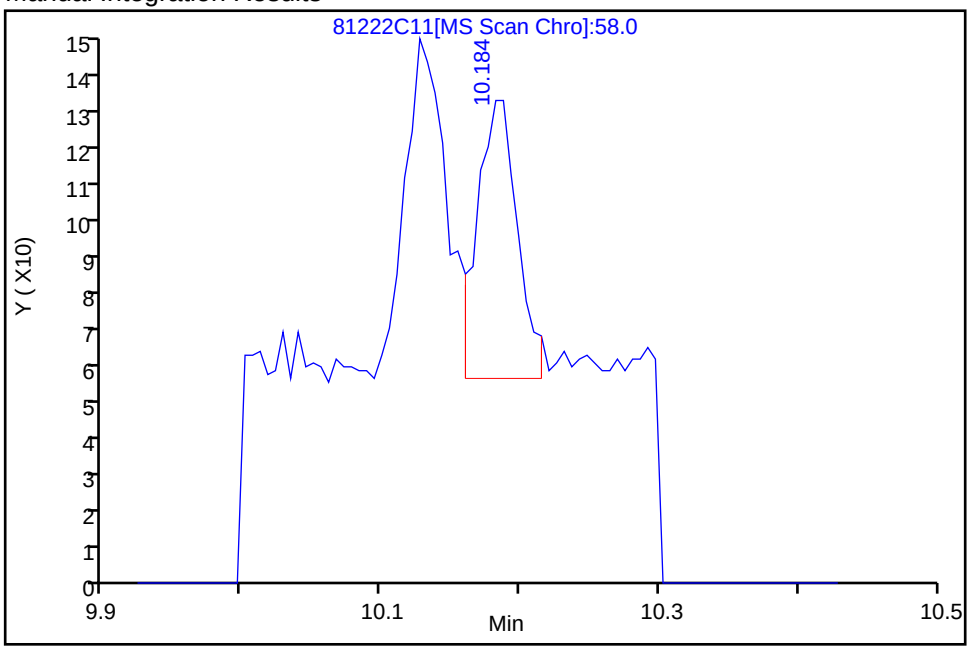
Not Detected
10.179

Processing Integration Results



Manual Integration Results

RT: 10.184
Area: 145
Conc: 0.52015
Conc Units: ug/L



Data Editor: xiang.zhu, 23-Dec-2015 10:12:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

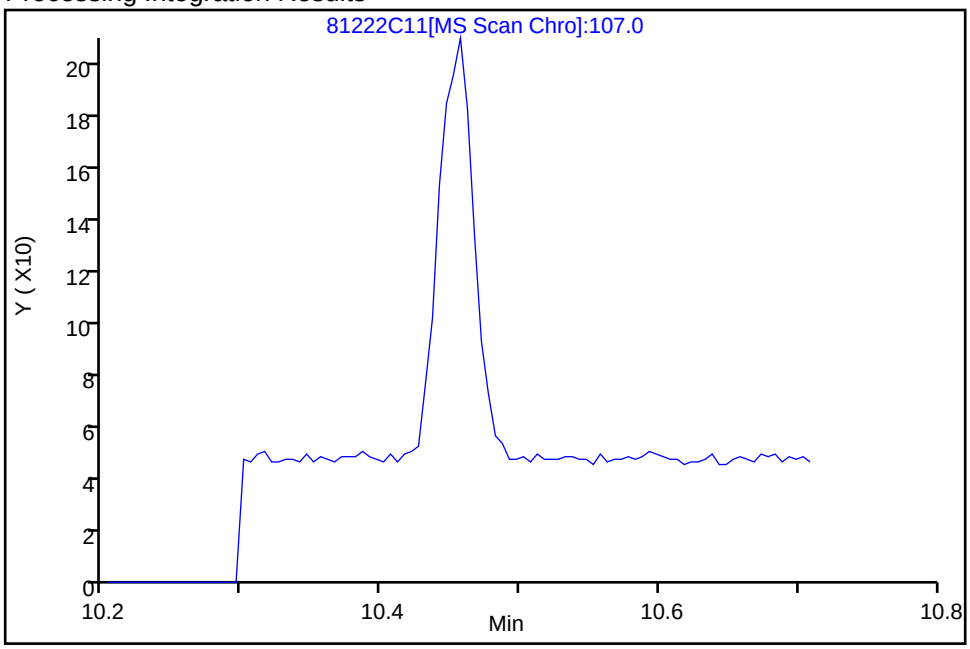
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

52 1,2-Dibromoethane, CAS: 106-93-4

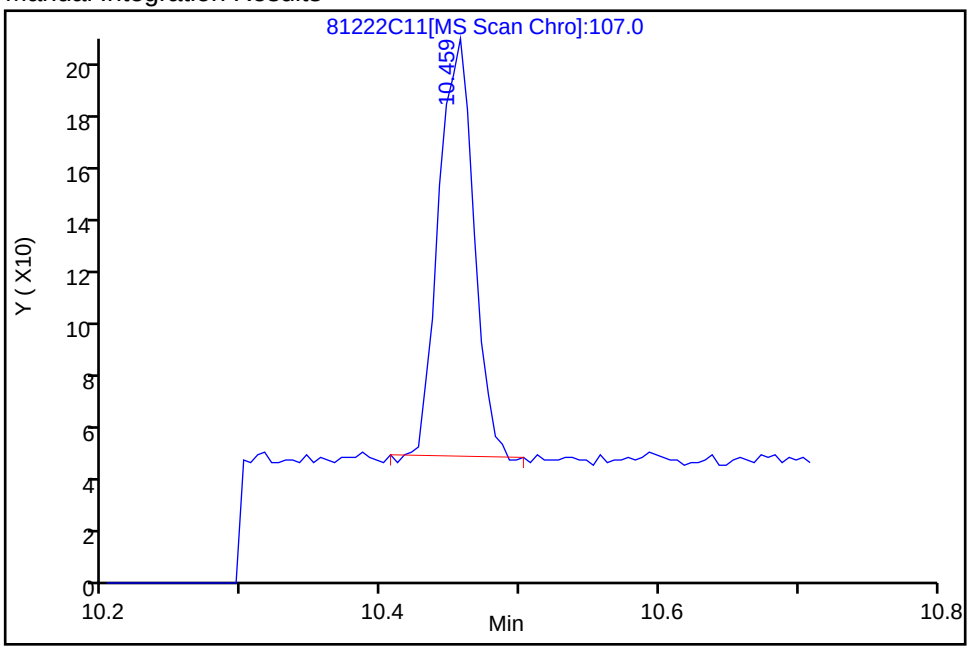
Not Detected
10.459

Processing Integration Results



Manual Integration Results

RT:	10.459
Area:	275
Conc:	0.04290
Conc Units:	ug/L



Data Editor: xiang.zhu, 23-Dec-2015 10:09:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

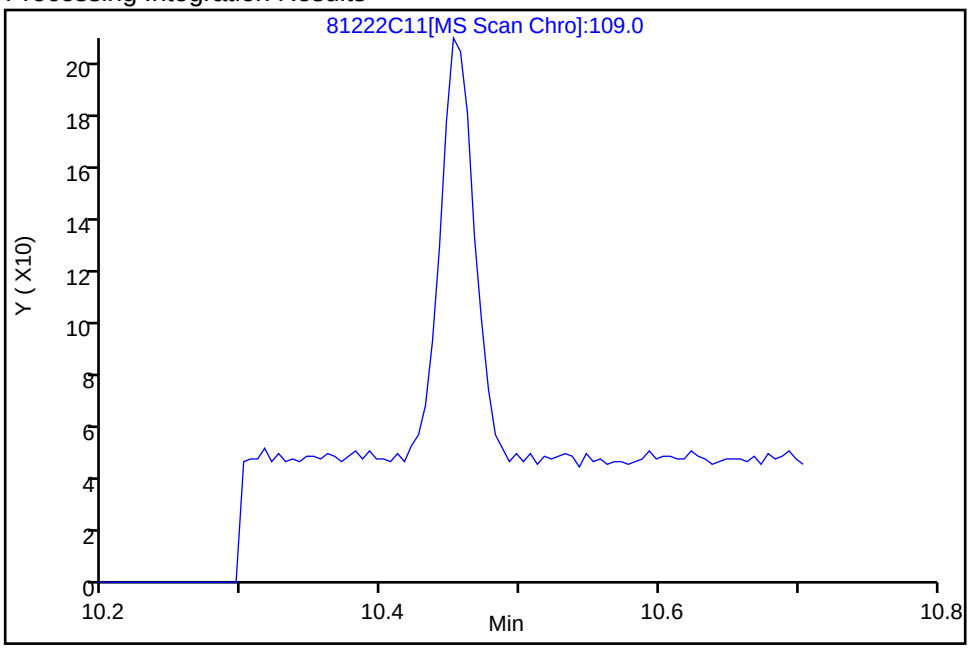
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

52 1,2-Dibromoethane, CAS: 106-93-4

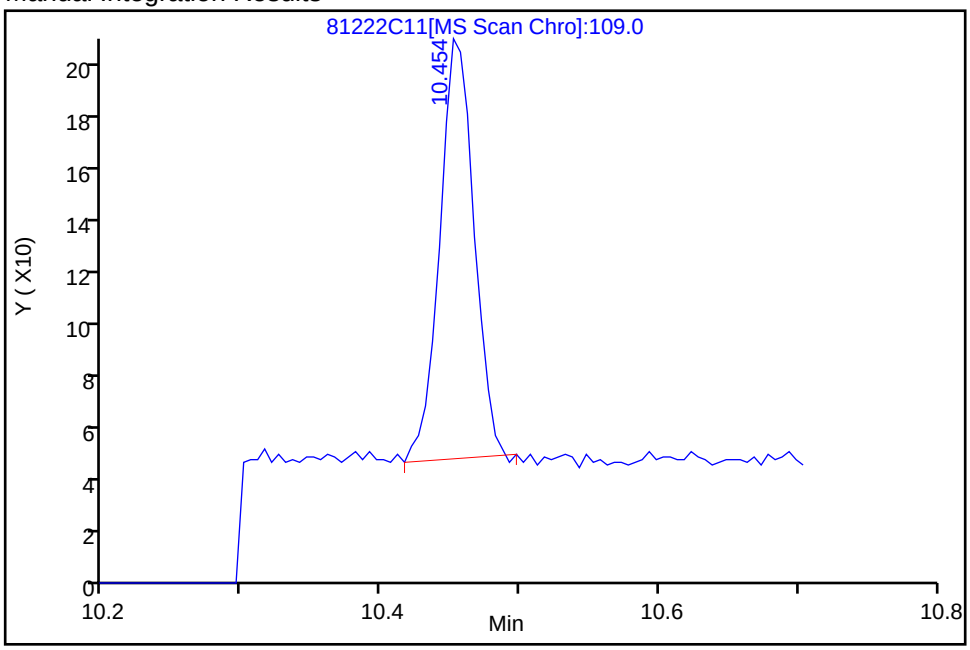
Not Detected
10.459

Processing Integration Results



Manual Integration Results

RT:	10.454
Area:	266
Conc:	0.04294
Conc Units:	ug/L



Data Editor: xiang.zhu, 23-Dec-2015 10:09:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

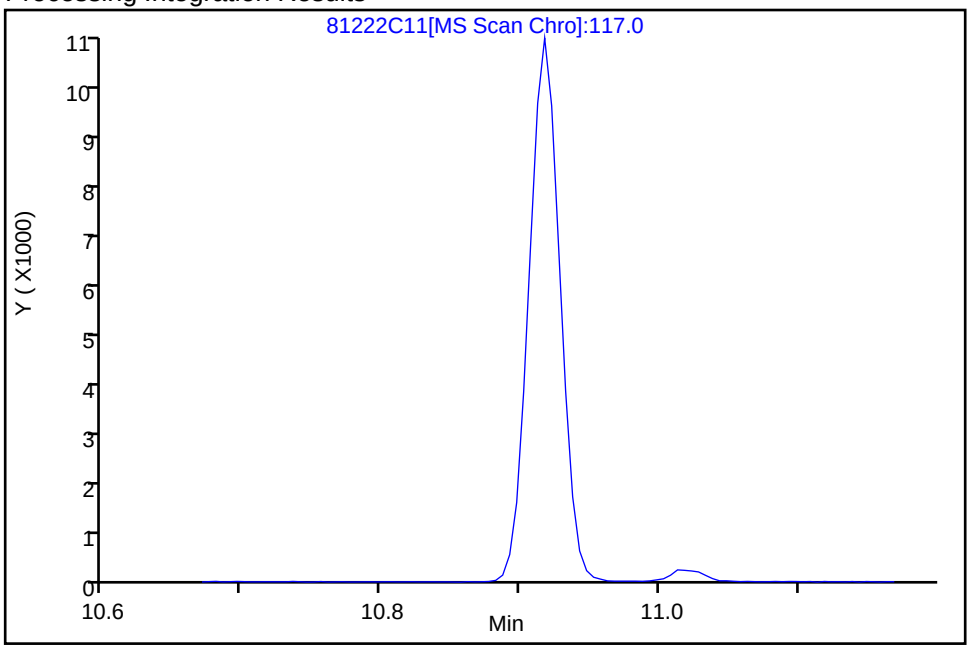
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 53 Chlorobenzene-d5, CAS: 3114-55-4

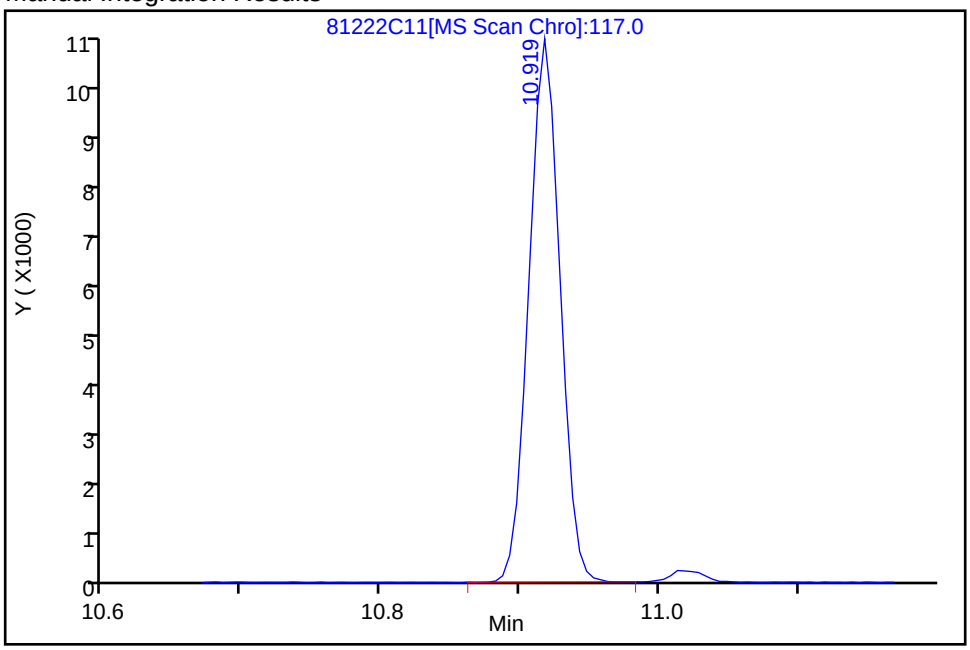
Processing Integration Results

Not Detected
10.919



Manual Integration Results

RT: 10.919
Area: 15792
Conc: 0.50000
Conc Units: ug/L



Data Editor: pap, 23-Dec-2015 07:52:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

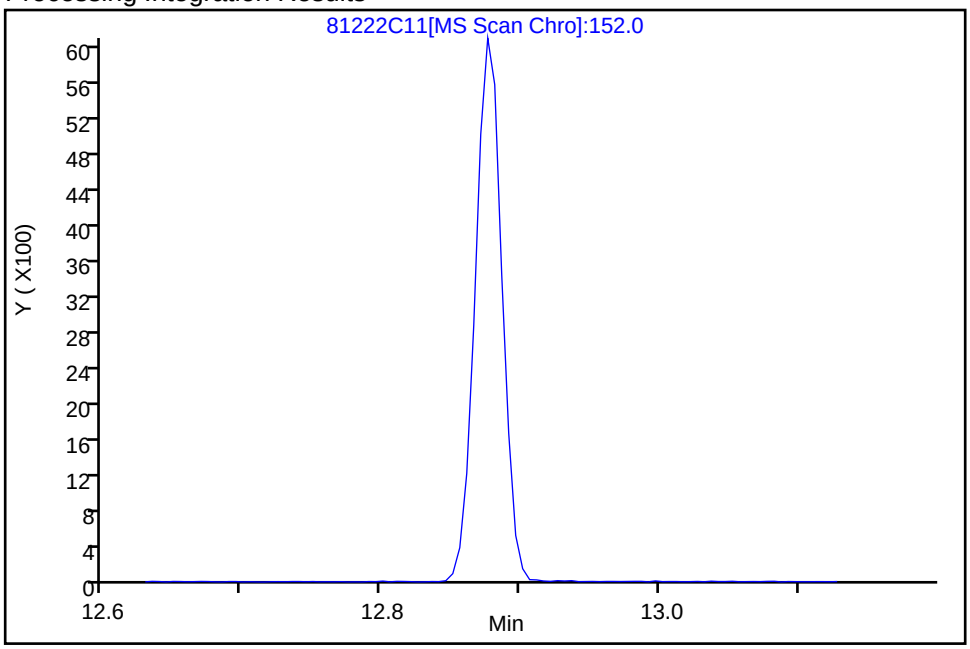
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

* 76 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

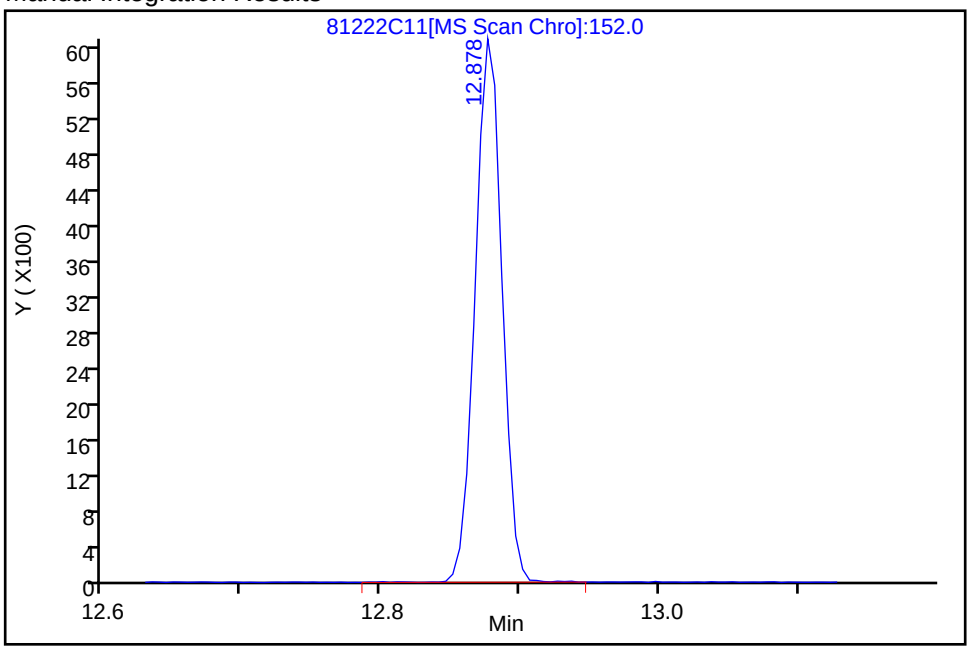
Processing Integration Results

Not Detected
12.878



Manual Integration Results

RT:	12.878
Area:	7975
Conc:	0.50000
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:53:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

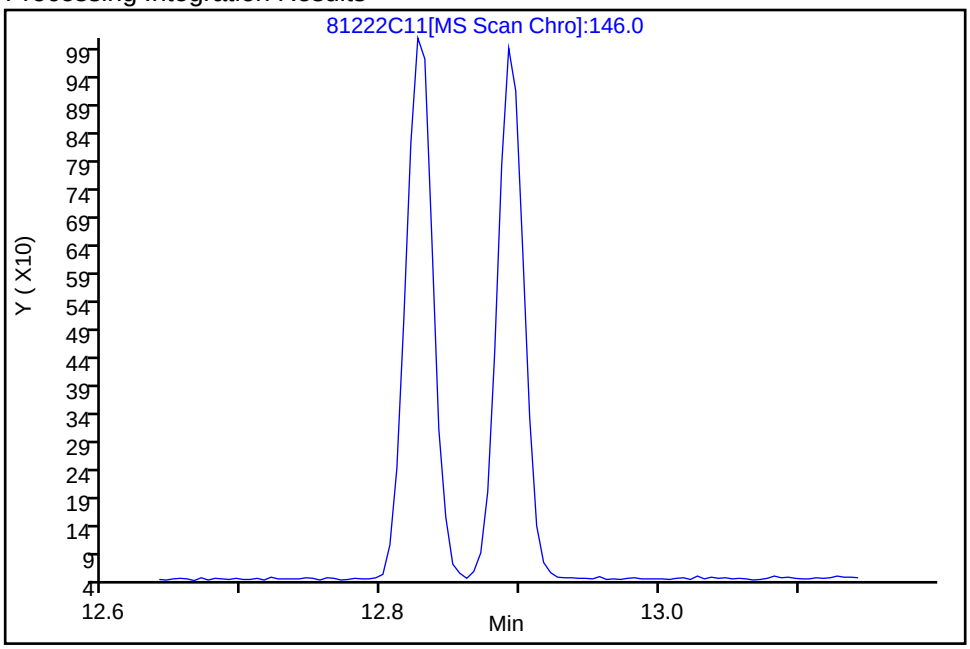
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

77 1,4-Dichlorobenzene, CAS: 106-46-7

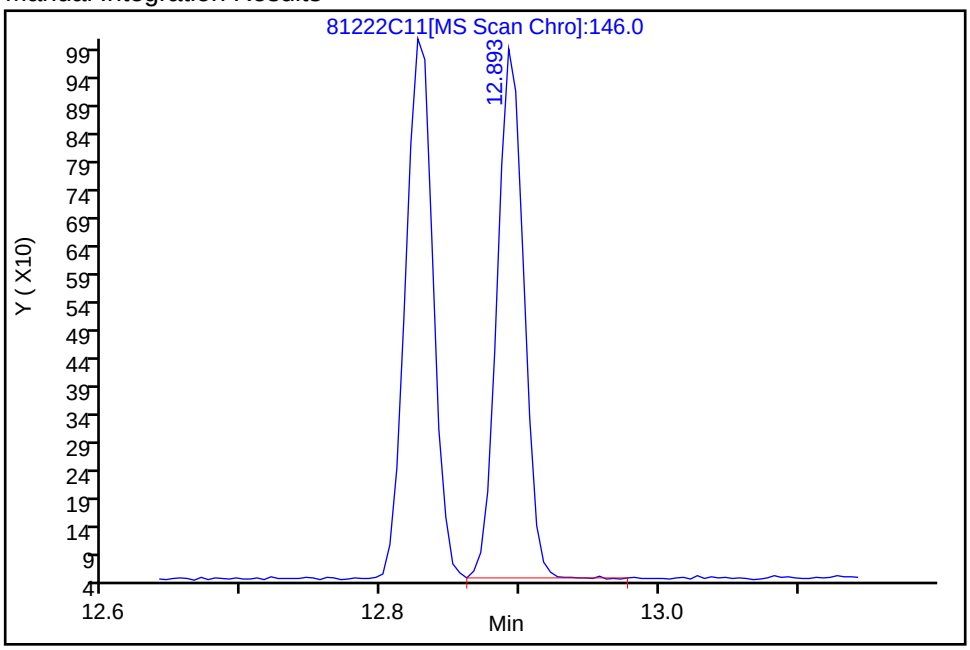
Not Detected
13.173

Processing Integration Results



Manual Integration Results

RT:	12.893
Area:	1242
Conc:	0.05090
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:53:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

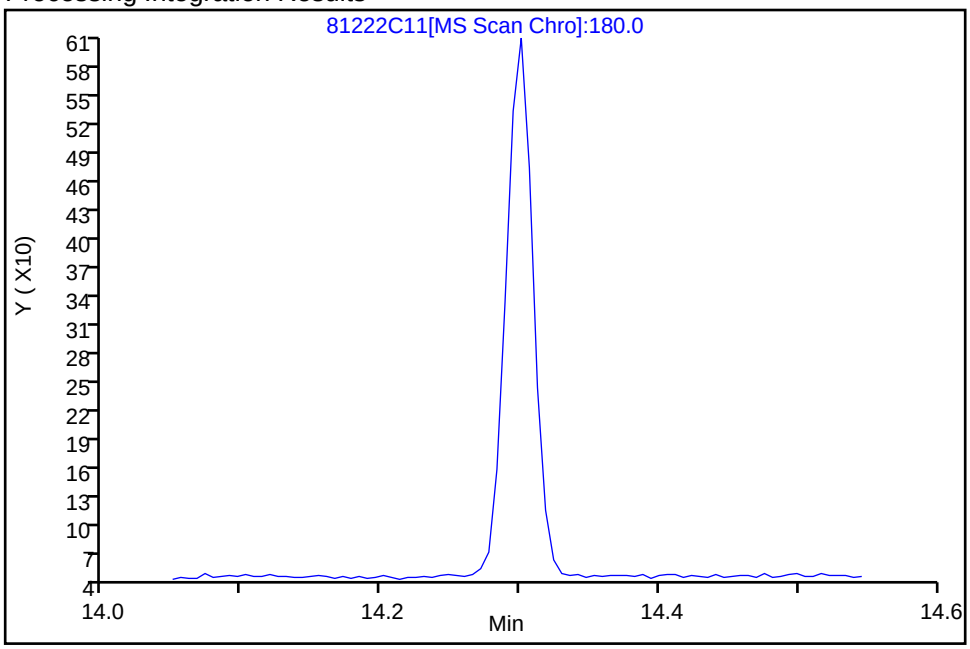
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

82 1,2,4-Trichlorobenzene, CAS: 120-82-1

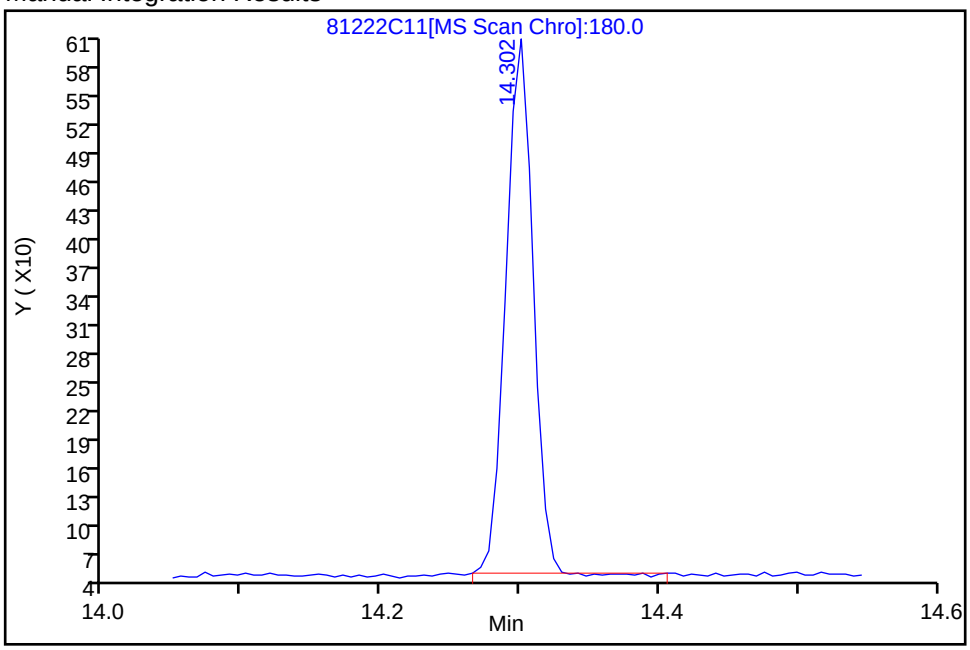
Not Detected
14.302

Processing Integration Results



Manual Integration Results

RT:	14.302
Area:	737
Conc:	0.04400
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:53:30
Audit Action: Mint
Audit Reason: NOID

Report Date: 06-Jan-2016 11:38:20 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

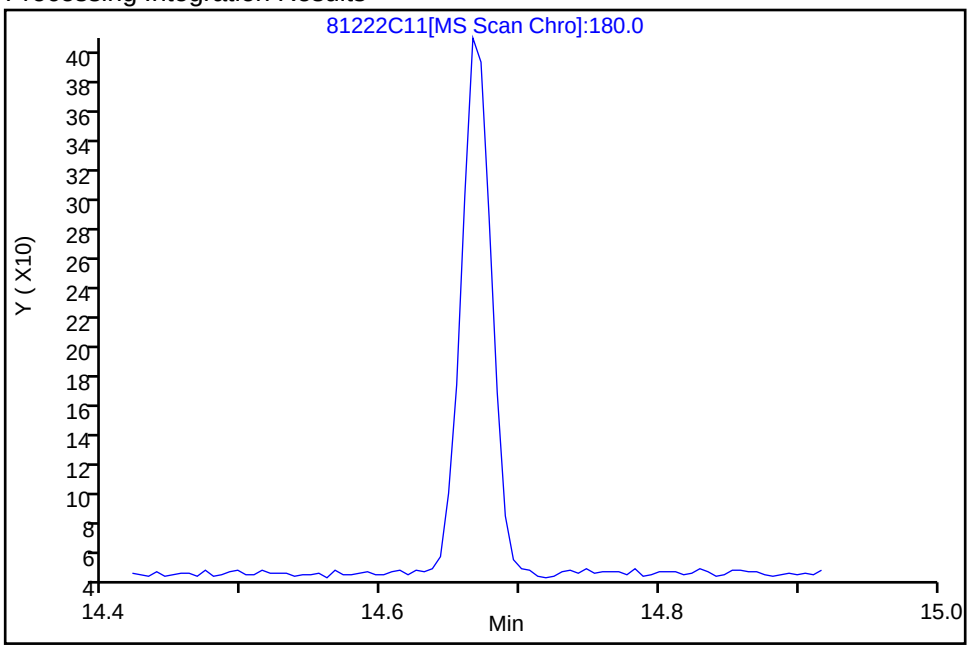
Manual Integration Report

Data File:	\\Organics\DD\chem\msd8.i\8122215C.b\81222C11.D		
Injection Date:	23-Dec-2015 03:45:30	Inst. ID:	msd8.i
Client ID:	VLCSSK	Lab ID:	VLCSSK
Sample Info:	8122215C.b, VLCSSK		
Purge Vol.	25 ML	Dil. Factor:	1.0
Operator:	JJG		
Column1:	DB-624 (0.25 mm)	Detector:	MS Scan

84 1,2,3-Trichlorobenzene, CAS: 87-61-6

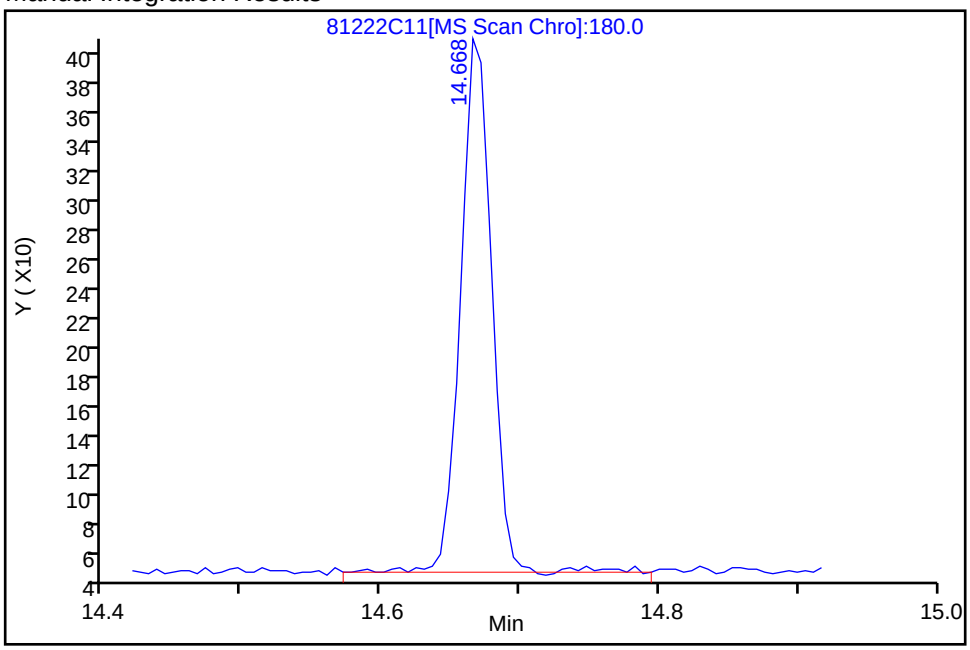
Not Detected
14.674

Processing Integration Results



Manual Integration Results

RT:	14.668
Area:	551
Conc:	0.04110
Conc Units:	ug/L



Data Editor: pap, 23-Dec-2015 07:53:30
Audit Action: Mint
Audit Reason: NOID

TRACEVOLATILE-sim Miscellaneous Data

Run Logs

Standard Preparation Logs

Shealy Environmental Services
Run Log Report

BATCH: 92901
ICAL: 92900
IS: 7811
SS: 7812

Batch Path: \\Organics\DD\chem\msd8.i\8122215C.b
Inst. ID: msd8.i Method: SIM2545-8
Matrix: Water Operator: JJG

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	ICal Lvl	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
1	VIBLK	22-Dec-2015 22:45:30	81222C01.D	Client			Water	1	all		Yes						SIM2545-8
2	VIBLK	22-Dec-2015 23:11:30	81222C02.D	Client			Water	1	all		Yes						SIM2545-8
3	BFBSK	23-Dec-2015 00:08:30	81222C03.D	BFB		BFBSK	Water	1	all			Yes			14049		BFBSOM-8
4	VSTD2.0SK	23-Dec-2015 00:37:30	81222C04.D	Ical	5	VSTD2.0SK	Water	1	2545		Yes				7844		SIM2545-8
5	VSTD1.0SK	23-Dec-2015 01:05:30	81222C05.D	Ical	4	VSTD1.0SK	Water	1	2545		Yes				7843		SIM2545-8
6	VSTD0.5SK	23-Dec-2015 01:31:30	81222C06.D	Ical	3	VSTD0.5SK	Water	1	2545		Yes				7842		SIM2545-8
7	VSTD0.1SK	23-Dec-2015 01:58:30	81222C07.D	Ical	2	VSTD0.1SK	Water	1	2545		Yes				7841		SIM2545-8
8	VSTD0.05SK	23-Dec-2015 02:25:30	81222C08.D	Ical	1	VSTD0.05SK	Water	1	2545		Yes				7840		SIM2545-8
9	VBLKSK	23-Dec-2015 02:51:30	81222C09.D	Client		VBLKSK	Water	1	2545		Yes						SIM2545-8
10	VBLKSK	23-Dec-2015 03:18:30	81222C10.D	BLANK		VBLKSK	Water	1	2545		Yes						SIM2545-8
11	VLCSSK	23-Dec-2015 03:45:30	81222C11.D	LCS		VLCSSK	Water	1	2545	2545	Yes						SIM2545-8
12	QL16010-001	23-Dec-2015 09:05:30	81222C12.D	Client		F6R29	Water	1	2545		Yes			<=2			SIM2545-8
13	QL16010-005	23-Dec-2015 09:32:30	81222C13.D	Client		F6R35	Water	1	2545		Yes						SIM2545-8
14	QL16010-006	23-Dec-2015 09:59:30	81222C14.D	Client		F6R36	Water	1	2545		Yes						SIM2545-8
15	QL16010-007	23-Dec-2015 10:25:30	81222C15.D	Client		F6R39	Water	1	2545		Yes						SIM2545-8
16	QL16010-003	23-Dec-2015 10:52:30	81222C16.D	Client		F6R33	Water	5	2545		Yes					R-50X	SIM2545-8
17	VSTD0.5SY	23-Dec-2015 11:19:30	81222C17.D	Ccv		VSTD0.5SY	Water	1	2545		Yes				7842		SIM2545-8e
18	VSTD0.5SY	23-Dec-2015 11:45:30	81222C18.D	Ccv		VSTD0.5SY	Water	1	2545		Yes					NR-passes	SIM2545-8e

Shealy Environmental Services
Run Log Report

BATCH: 92921
ICAL: 92900
IS: 7811
SS: 7812

Batch Path: \\Organics\DD\chem\msd8.i\8122315.b
Inst. ID: msd8.i
Method: SIM2545-8
Matrix: Water
Operator: PAP

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
17	VSTD0.5SY	23-Dec-2015 11:19:30	81222C17.D	Ccv	VSTD0.5SY	Water	1	2545		Yes				7842		SIM2545-8
18	VSTD0.5SY	23-Dec-2015 11:45:30	81222C18.D	Ccv	VSTD0.5SY	Water	1	2545		Yes					NR	SIM2545-8
2	VBLKTC	23-Dec-2015 12:16:30	81223A01.D	BLANK	VBLKTC	Water	1	2545		Yes						SIM2545-8
3	VBLKTC	23-Dec-2015 12:43:30	81223A02.D	BLANK	VBLKTC	Water	1	2545		Yes						SIM2545-8
4	QL16010-004	23-Dec-2015 13:29:30	81223A03.D	Client	F6R34	Water	20	2545		Yes						SIM2545-8
5	QL16010-002	23-Dec-2015 13:56:30	81223A04.D	Client	F6R32	Water	500	2545		Yes						SIM2545-8
6	VBLK70	23-Dec-2015 14:23:30	81223A05.D	Client	VBLK70	Water	1	2545		Yes						SIM2545-8
7	QL16010-003DL	23-Dec-2015 14:49:30	81223A06.D	Client	F6R33DL	Water	50	2545		Yes						SIM2545-8
8	VSTD0.5TC	23-Dec-2015 15:34:30	81223A07.D	Ccv	VSTD0.5TC	Water	1	2545		Yes				7842		SIM2545-8e
9	VSTD0.5TC	23-Dec-2015 16:00:30	81223A08.D	Ccv	VSTD0.5TC	Water	1	2545		Yes					NR-passes	SIM2545-8e

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7844 Analyst: JJG Prep Date: 12/22/2015
Solv. Lot: NA Exp. Date: 12/23/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
TVSIM ICAL 2.0									
TVSIM IS	SOMV7811	2	25	100	0.5	H2O	NA	12/18/2015	1/7/2016
TVSIM DMC	SOMV7812	1	200	100	2	H2O	NA	12/18/2015	1/17/2016
TVSIM Working Std	SOMV7813	1	200	100	2	H2O	NA	12/18/2015	1/16/2016
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7843 Analyst: JJG Prep Date: 12/22/2015
Solv. Lot: NA Exp. Date: 12/23/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
TVSIM ICAL 1.0									
TVSIM IS	SOMV7811	2	25	100	0.5	H2O	NA	12/18/2015	1/7/2016
TVSIM DMC	SOMV7812	1	100	100	1	H2O	NA	12/18/2015	1/17/2016
TVSIM Working Std	SOMV7813	1	100	100	1	H2O	NA	12/18/2015	1/16/2016
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7842 Analyst: JJG Prep Date: 12/22/2015
Solv. Lot: NA Exp. Date: 12/23/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
TVSIM ICAL 0.5									
TVSIM IS	SOMV7811	2	25	100	0.5	H2O	NA	12/18/2015	1/7/2016
TVSIM DMC	SOMV7812	1	50	100	0.5	H2O	NA	12/18/2015	1/17/2016
TVSIM Working Std	SOMV7813	1	50	100	0.5	H2O	NA	12/18/2015	1/16/2016
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7841 Analyst: JJG Prep Date: 12/22/2015
Solv. Lot: NA Exp. Date: 12/23/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
TVSIM ICAL 0.1									
TVSIM IS	SOMV7811	2	25	100	0.5	H2O	NA	12/18/2015	1/7/2016
TVSIM DMC	SOMV7812	1	10	100	0.1	H2O	NA	12/18/2015	1/17/2016
TVSIM Working Std	SOMV7813	1	10	100	0.1	H2O	NA	12/18/2015	1/16/2016
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

Working Standard Prep Log - Volatiles
(Aqueous CLP)

Standard ID: SOMV 7840 Analyst: JJG Prep Date: 12/22/2015
Solv. Lot: NA Exp. Date: 12/23/2015

Stock Standard	Shealy ID	Stock Conc (ug/ml)	Init. Vol. (ul)	Final Vol. (ml)	Final Conc. (ug/L)	Solvent	Mfg. Exp. Date	Ampule Opened	Ampule Exp. Date
TVSIM ICAL 0.05									
TVSIM IS	SOMV7811	2	25	100	0.5	H2O	NA	12/18/2015	1/7/2016
TVSIM DMC	SOMV7812	1	5	100	0.05	H2O	NA	12/18/2015	1/17/2016
TVSIM Working Std	SOMV7813	1	5	100	0.05	H2O	NA	12/18/2015	1/16/2016
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-
-	-	1000	10	100	100	-	-	-	-

*Refer to COA for specific compound concentrations for mixed standards.

SEMIVOLATILES

QC Summary

- Deuterated Monitoring Compound Recovery (Form 2)
- Matrix Spike/Matrix Spike Duplicate Recovery (Form 3) optional
- Laboratory Control Sample Recovery (Form 3) optional
- Method Blank Summary (Form 4)
- GC/MS Instrument Performance Check (Form 5)
- Internal Standard Area & RT Summary (Form 8)

Sample Data

Standards Data

- Initial Calibration (Form 6)
- Continuing Calibration Verification Data (Form 7)

Raw QC Data

- DFTPP Data
- Blank Data
- MS/MSD Data (optional)
- LCS Data (optional)

Miscellaneous Data

- Run Logs
- Standard Preparation Logs

SEMIVOLATILE QC SUMMARY

Includes:

Deuterated Monitoring Compound Recovery (Form 2)

Matrix Spike/Matrix Spike Duplicate (Form 3A)

Laboratory Control Sample Recovery (From 3B)

Method Blank Summary (Form 4)

GC/MS Instrument Performance Check (Form 5)

Internal Standard Area and RT Summary (Form 8)

Deuterated Monitoring Compound Recovery

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

AnalyticalMethod: SVOA Level: LOW

Matrix: Water

EPA SAMPLE NO.	DMC1	DMC2	DMC3	DMC4	DMC5	DMC6	DMC7	DMC8	DMC9
F6R29	50	70	71	84	68	26	75	80	70
F6R29RX	42	61	69	85	63	9	75	71	63
F6R32	987 D	0 D	872 D	0 D	3331 D	721 D	1459 D	0 D	0 D
F6R32DL	0 D	0 D	27015 D	0 D	0 D	0 D	0 D	0 D	0 D
F6R32DL2	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D	0 D
F6R33	58	52	54	61	57	49	58	55	47
F6R33RX	25 D	40	39	50	50	37	44	45	41
F6R34	33 D	62	155 D	66	69	648 D	101	56	73
F6R34RX	29 D	39	49	55	45	41	52	38	39
F6R35	50	73	71	87	80	35	75	76	75
F6R35RX	51	65	66	85	71	11	74	69	63
F6R36	45	66	64	80	73	35	71	66	69
F6R36RX	50	65	67	85	69	5	74	69	62
F6R30	36 D	48	53	61	55	13	50	56	46
F6R30RX	37 D	48	52	63	52	20	54	51	45
SBLK47	55	74	75	91	81	63	79	74	73
SBLK44	57	33	71	87	55	3	80	72	66

	QC LIMITS
DMC1 = 1,4-Dioxane-d8	40-110
DMC2 = Phenol-d5	10-130
DMC3 = Bis-(2-chloroethyl)ether-d8	25-120
DMC4 = 2-Chlorophenol-d4	20-130
DMC5 = 4-Methylphenol-d8	25-125
DMC6 = 4-Chloroaniline-d4	1-145
DMC7 = Nitrobenzene-d5	20-125
DMC8 = 2-Nitrophenol-d4	20-130
DMC9 = 2,4-Dichlorophenol-d3	20-120

* Values outside of contract required QC limits
D DMC diluted out

FORM 2B-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

AnalyticalMethod: SVOA Level: LOW

Matrix: Water

EPA SAMPLE NO.	DMC10	DMC11	DMC12	DMC13	DMC14	DMC15	DMC16	DMC17	TOT OUT
F6R29	89	78	76	81	62	61	92	39	0
F6R29RX	91	78	66	78	64	62	95	40	0
F6R32	0 D	3503 D	0 D	0 D	0 D	14711 D	0 D	15471 D	0
F6R32DL	0 D	179118 D	0 D	0 D	0 D	730059 D	0 D	776899 D	0
F6R32DL2	0 D	358582 D	0 D	0 D	0 D	1454664 D	0 D	1528422 D	0
F6R33	61	30	69	27	0 D	29	0 D	1029 D	0
F6R33RX	55	46	43	40	0 D	52	30	0 D	0
F6R34	70	58	357 D	48	133 D	44	36	1033 D	0
F6R34RX	55	44	55	39	29	65	32	0 D	0
F6R35	88	85	76	80	66	78	97	37	0
F6R35RX	82	78	58	73	59	70	97	35	0
F6R36	79	77	65	72	60	72	83	33	0
F6R36RX	81	76	57	72	58	67	88	31	0
F6R30	53	24	47	18 D	26	34	16	19 D	0
F6R30RX	58	52	30	40	32	72	36	23	0
SBLK47	87	85	66	78	65	98	112	91	0
SBLK44	68	4 *	66	57	61	11 *	26	8 *	3

	QC LIMITS
DMC10 = Dimethylphthalate-d6	25-130
DMC11 = Acenaphthylene-d8	10-130
DMC12 = 4-Nitrophenol-d4	10-150
DMC13 = Fluorene-d10	25-125
DMC14 = 4,6-Dinitro-2-methylphenol-d2	10-130
DMC15 = Anthracene-d10	25-130
DMC16 = Pyrene-d10	15-130
DMC17 = Benzo(a)pyrene-d12	20-130

* Values outside of contract required QC limits
D DMC diluted out

Method Blank Summary

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK47

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QQ92747-001

Instrument ID: Agilent MSD12 Lab File ID: 12122303

Extraction Type: CLLE Date Extracted: 12/21/2015

GC Column(1): Zebron ZB-SV ID: 0.25 (mm) Date Analyzed: 12/23/2015

GC Column(2): _____ ID: _____ (mm) Time Analyzed: 09:20

Heated Purge:(Y/N) _____ Cleanup:(Y/N) _____ Cleanup Types: _____

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R29	QL16010-001	12122217	12/22/2015
F6R32	QL16010-002	12122223	12/22/2015
F6R32DL	QL16010-002	12122313	12/23/2015
F6R32DL2	QL16010-002	12122320	12/23/2015
F6R33	QL16010-003	12122221	12/22/2015
F6R34	QL16010-004	12122222	12/22/2015
F6R35	QL16010-005	12122218	12/22/2015
F6R36	QL16010-006	12122219	12/22/2015
F6R30	QL16010-009	12122220	12/22/2015

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK44

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QQ92944-001

Instrument ID: Agilent MSD12 Lab File ID: 12123103

Extraction Type: CLLE Date Extracted: 12/23/2015

GC Column(1): Zebron ZB-SV ID: 0.25 (mm) Date Analyzed: 12/31/2015

GC Column(2): _____ ID: _____ (mm) Time Analyzed: 09:17

Heated Purge:(Y/N) _____ Cleanup:(Y/N) _____ Cleanup Types: _____

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R29RX	QL16010-001	12123104	12/31/2015
F6R33RX	QL16010-003	12123106	12/31/2015
F6R34RX	QL16010-004	12123107	12/31/2015
F6R35RX	QL16010-005	12123108	12/31/2015
F6R36RX	QL16010-006	12123109	12/31/2015
F6R30RX	QL16010-009	12123110	12/31/2015

Instrument Performance Check

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPNF

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Lab File ID: 12121101

Instrument ID: Agilent MSD12 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/11/2015 Injection Time: 0813

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	58.0	
68	Less than 2.0% of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	52.5	
70	Less than 2.0% of mass 69	0.3	(0.6) 1
127	10.0 - 80.0% of mass 198	54.7	
197	Less than 2.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0% of mass 198	6.7	
275	10.0 - 60.0% of mass 198	30.4	
365	Greater than 1.0% of mass 198	5.0	
441	Present, but less than mass 443	75.7	
442	50.0 - 100% of mass 198	112.5	
443	15.0 - 24.0% of mass 442	21.4	(19.0) 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD005NG	SSTD005NG	12121102	12/11/2015	0848
SSTD010NG	SSTD010NG	12121103	12/11/2015	0916
SSTD020NG	SSTD020NG	12121104	12/11/2015	0944
SSTD040NG	SSTD040NG	12121105	12/11/2015	1013
SSTD080NG	SSTD080NG	12121106	12/11/2015	1042

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPOU

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29

Analytical Method: SVOA Lab File ID: 12122201

Instrument ID: Agilent MSD12 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/22/2015 Injection Time: 0825

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	54.3	
68	Less than 2.0% of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	50.4	
70	Less than 2.0% of mass 69	0.3	(0.5) 1
127	10.0 - 80.0% of mass 198	53.6	
197	Less than 2.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0% of mass 198	6.5	
275	10.0 - 60.0% of mass 198	30.2	
365	Greater than 1.0% of mass 198	4.6	
441	Present, but less than mass 443	73.3	
442	50.0 - 100% of mass 198	117.7	
443	15.0 - 24.0% of mass 442	22.7	(19.3) 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD020OV	SSTD020OV	12122202	12/22/2015	0847
SSTD020OW	SSTD020OW	12122215	12/22/2015	1600
F6R29	QL16010-001	12122217	12/22/2015	1712
F6R35	QL16010-005	12122218	12/22/2015	1740
F6R36	QL16010-006	12122219	12/22/2015	1808
F6R30	QL16010-009	12122220	12/22/2015	1837
F6R33	QL16010-003	12122221	12/22/2015	1905
F6R34	QL16010-004	12122222	12/22/2015	1934
F6R32	QL16010-002	12122223	12/22/2015	2002
SSTD020OX	SSTD020OX	12122224	12/22/2015	2030

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPOY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Lab File ID: 12122301

Instrument ID: Agilent MSD12 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/23/2015 Injection Time: 0833

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	54.0	
68	Less than 2.0% of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	50.2	
70	Less than 2.0% of mass 69	0.3	(0.6) 1
127	10.0 - 80.0% of mass 198	53.4	
197	Less than 2.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0% of mass 198	6.6	
275	10.0 - 60.0% of mass 198	30.2	
365	Greater than 1.0% of mass 198	4.5	
441	Present, but less than mass 443	75.5	
442	50.0 - 100% of mass 198	117.9	
443	15.0 - 24.0% of mass 442	22.4	(19.0) 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD020OZ	SSTD020OZ	12122302	12/23/2015	0851
SBLK47	QQ92747-001	12122303	12/23/2015	0920
F6R32DL	QL16010-002	12122313	12/23/2015	1407
F6R32DL2	QL16010-002	12122320	12/23/2015	1731
SSTD020PA	SSTD020PA	12122321	12/23/2015	1759

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPPC

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29

Analytical Method: SVOA Lab File ID: 12123101

Instrument ID: Agilent MSD12 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/31/2015 Injection Time: 0826

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0% of mass 198	54.1	
68	Less than 2.0% of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	50.2	
70	Less than 2.0% of mass 69	0.2	(0.3) 1
127	10.0 - 80.0% of mass 198	55.9	
197	Less than 2.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0% of mass 198	6.8	
275	10.0 - 60.0% of mass 198	29.1	
365	Greater than 1.0% of mass 198	4.3	
441	Present, but less than mass 443	74.1	
442	50.0 - 100% of mass 198	115.3	
443	15.0 - 24.0% of mass 442	22.0	(19.1) 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD020PD	SSTD020PD	12123102	12/31/2015	0844
SBLK44	QQ92944-001	12123103	12/31/2015	0917
F6R29RX	QL16010-001	12123104	12/31/2015	0946
F6R33RX	QL16010-003	12123106	12/31/2015	1049
F6R34RX	QL16010-004	12123107	12/31/2015	1118
F6R35RX	QL16010-005	12123108	12/31/2015	1147
F6R36RX	QL16010-006	12123109	12/31/2015	1215
F6R30RX	QL16010-009	12123110	12/31/2015	1244
SSTD020PG	SSTD020PG	12123111	12/31/2015	1316

Internal Standard & RT Summary

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

EPA Sample No.: SSTD020OW Lab File ID (Standard): 12122215

Instrument ID: Agilent MSD12 Init. Calib. Date(s): 12/11/2015 12/11/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Analyzed: 12/22/2015

Heated Purge: (Y/N) _____ Time Analyzed: 1600

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	478233	5.47	1991363	6.52	1042695	8.00
UPPER LIMIT	956466	5.97	3982726	7.02	2085390	8.50
LOWER LIMIT	239117	4.97	995682	6.02	521348	7.50
EPA SAMPLE NO.						
F6R29	319591	5.47	1357052	6.51	732441	8.00
F6R32	365355	5.48	1449719	6.55	1008801	8.01
F6R33	367881	5.47	1708273	6.52	866666	8.00
F6R34	431351	5.48	1844203	6.52	1150797	8.00
F6R35	326716	5.47	1370901	6.51	725470	8.00
F6R36	374477	5.47	1547924	6.51	828338	7.99
F6R30	372232	5.47	1549775	6.51	839215	7.99

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = 200% internal standard area

AREA LOWER LIMIT = 50% internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

EPA Sample No.: SSTD020OW Lab File ID (Standard): 12122215

Instrument ID: Agilent MSD12 Init. Calib. Date(s): 12/11/2015 12/11/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Analyzed: 12/22/2015

Heated Purge: (Y/N) _____ Time Analyzed: 1600

	IS4 AREA	RT	IS5 AREA	RT	IS6 AREA	RT
12 HOUR STD	1901337	9.27	2220889	12.18	2096361	14.46
UPPER LIMIT	3802674	9.77	4441778	12.68	4192722	14.96
LOWER LIMIT	950669	8.77	1110445	11.68	1048181	13.96
EPA SAMPLE NO.						
F6R29	1326234	9.27	1513688	12.17	1472010	14.45
F6R32	1681092	9.27	1855506	12.17	1794525	14.45
F6R33	1557088	9.27	1784198	12.17	1761368	14.45
F6R34	2208781	9.27	2446082	12.18	2299986	14.46
F6R35	1291296	9.27	1468669	12.17	1416592	14.45
F6R36	1445144	9.27	1670255	12.17	1662429	14.46
F6R30	1408909	9.26	1626223	12.17	1575166	14.45

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = 200% internal standard area

AREA LOWER LIMIT = 50% internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

EPA Sample No.: SSTD020OZ Lab File ID (Standard): 12122302

Instrument ID: Agilent MSD12 Init. Calib. Date(s): 12/11/2015 12/11/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Analyzed: 12/23/2015

Heated Purge: (Y/N) _____ Time Analyzed: 0851

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	535083	5.47	2227358	6.52	1146618	8.00
UPPER LIMIT	1070166	5.97	4454716	7.02	2293236	8.50
LOWER LIMIT	267542	4.97	1113679	6.02	573309	7.50
EPA SAMPLE NO.						
F6R32DL	341751	5.47	1468321	6.51	769607	7.99
F6R32DL2	440906	5.47	1847546	6.51	984840	7.99
SBLK47	327675	5.47	1362945	6.51	719940	7.99

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = 200% internal standard area

AREA LOWER LIMIT = 50% internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

EPA Sample No.: SSTD020OZ Lab File ID (Standard): 12122302

Instrument ID: Agilent MSD12 Init. Calib. Date(s): 12/11/2015 12/11/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Analyzed: 12/23/2015

Heated Purge: (Y/N) _____ Time Analyzed: 0851

	IS4 AREA	RT	IS5 AREA	RT	IS6 AREA	RT
12 HOUR STD	2050956	9.27	2385768	12.18	2175537	14.47
UPPER LIMIT	4101912	9.77	4771536	12.68	4351074	14.97
LOWER LIMIT	1025478	8.77	1192884	11.68	1087769	13.97
EPA SAMPLE NO.						
F6R32DL	1170392	9.26	1464194	12.17	1440351	14.44
F6R32DL2	1501701	9.26	1911823	12.17	1985815	14.45
SBLK47	1194507	9.26	1361067	12.17	1306441	14.45

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = 200% internal standard area

AREA LOWER LIMIT = 50% internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

EPA Sample No.: SSTD020PD Lab File ID (Standard): 12123102

Instrument ID: Agilent MSD12 Init. Calib. Date(s): 12/11/2015 12/11/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Analyzed: 12/31/2015

Heated Purge: (Y/N) _____ Time Analyzed: 0844

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	544348	5.47	2218078	6.51	1236073	8.00
UPPER LIMIT	1088696	5.97	4436156	7.01	2472146	8.50
LOWER LIMIT	272174	4.97	1109039	6.01	618037	7.50
EPA SAMPLE NO.						
F6R29RX	314783	5.46	1299705	6.51	694229	7.99
F6R33RX	377610	5.46	1634456	6.51	834075	7.99
F6R34RX	367453	5.46	1506972	6.51	785739	7.99
F6R35RX	371476	5.47	1515356	6.51	803163	7.99
F6R36RX	377133	5.47	1544182	6.51	822802	7.99
F6R30RX	383809	5.46	1555717	6.51	792791	7.99
SBLK44	321870	5.46	1312936	6.51	705332	7.99

IS1 = 1,4-Dichlorobenzene-d4
IS2 = Naphthalene-d8
IS3 = Acenaphthene-d10

AREA UPPER LIMIT = 200% internal standard area

AREA LOWER LIMIT = 50% internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

EPA Sample No.: SSTD020PD Lab File ID (Standard): 12123102

Instrument ID: Agilent MSD12 Init. Calib. Date(s): 12/11/2015 12/11/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Analyzed: 12/31/2015

Heated Purge: (Y/N) _____ Time Analyzed: 0844

	IS4 AREA	RT	IS5 AREA	RT	IS6 AREA	RT
12 HOUR STD	2265063	9.27	2493206	12.18	2419973	14.46
UPPER LIMIT	4530126	9.77	4986412	12.68	4839946	14.96
LOWER LIMIT	1132532	8.77	1246603	11.68	1209987	13.96
EPA SAMPLE NO.						
F6R29RX	1232053	9.26	1363611	12.17	1323713	14.45
F6R33RX	1426520	9.26	1567643	12.17	1478425	14.44
F6R34RX	1344575	9.26	1561289	12.16	1494800	14.44
F6R35RX	1372118	9.26	1407500	12.17	1404090	14.45
F6R36RX	1404574	9.26	1483062	12.17	1404193	14.45
F6R30RX	1202828	9.26	1416812	12.16	1275014	14.45
SBLK44	1179592	9.26	1097164 *	12.16	968575 *	14.44

IS4 = Phenanthrene-d10
IS5 = Chrysene-d12
IS6 = Perylene-d12

AREA UPPER LIMIT = 200% internal standard area

AREA LOWER LIMIT = 50% internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

SEMIVOLATILE SAMPLE DATA

Sample data shall be arranged in packets with the Volatile Analysis Data Sheet (Form 1A-OR, 1B-OR), followed by the raw data for the VOA samples. These sample packets shall be placed in increasing EPA sample number order, considering both letters and numbers.

-Target Compound Results (Form 1A-OR)
-Tentatively Identified Compounds (Form 1B-OR)
List up to 30 TICs
-Quantitation Report showing calculation for TCL Analytes
-Quantitation Report showing calculation for TICs
-Reconstructed Total Ion Chromatograms
-Raw Spectra & background subtracted mass spectra of TCL Analytes identified in the sample
-Mass Spectra of organic compounds not listed in Exhibit C with associated best match spectra
-Printout of Manual Integrations

Spectra shall be labeled as follows:

EPA Sample ID number, Sample ID number, Lab file ID, Date & Time of analysis and Instrument ID.
The compound name must be clearly marked.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R29

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-001

Sample wt/vol: 1010 (g/mL) mL Lab File ID: 12122217

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	2.0	U
100-52-7	Benzaldehyde	9.9	U
108-95-2	Phenol	14	B
111-44-4	Bis(2-Chloroethyl) ether	9.9	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	49	B
108-60-1	2,2'-Oxybis(1-chloropropane)	9.9	U
98-86-2	Acetophenone	9.9	U
106-44-5	4-Methylphenol	25	B
621-64-7	N-Nitroso-di-n propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	28	B
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	9.9	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	9.9	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclo-pentadiene	9.9	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R29

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-001

Sample wt/vol: 1010 (g/mL) mL Lab File ID: 12122217

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	5.0	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	9.9	U
83-32-9	Acenaphthene	5.0	U
51-28-5	2,4-Dinitrophenol	9.9	U
100-02-7	4-Nitrophenol	9.9	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
7005-72-3	4-Chlorophenyl-phenyl ether	5.0	U
86-73-7	Fluorene	5.0	U
100-01-6	4-Nitroaniline	9.9	U
534-52-1	4,6-Dinitro-2-methylphenol	9.9	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	9.9	U
87-86-5	Pentachlorophenol	9.9	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	9.9	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	9.9	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R29

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-001

Sample wt/vol: 1010 (g/mL) mL Lab File ID: 12122217

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	9.9	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	9.9	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R29

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-001
Sample wt/vol: 1010 (g/mL) mL
Lab File ID: 12122217
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 7 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.55	2.1	J
02		Unknown-02	3.74	2.1	J
03	576-26-1	Phenol, 2,6-dimethyl-	5.98	5.0	NJ
04	90-00-6	Phenol, 2-ethyl-	6.09	4.6	NJ
05	620-17-7	Phenol, 3-ethyl-	6.26	10	NJ
06	108-68-9	Phenol, 3,5-dimethyl-	6.34	2.3	NJ
07	95-65-8	Phenol, 3,4-dimethyl-	6.42	3.0	NJ
08	99-89-8	Phenol, 4-(1-methylethyl)-	6.58	2.2	NJ
09		Unknown-03	7.89	2.5	J
10	506-17-2	cis-Vaccenic acid	10.28	5.0	NJ
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Lab Sample ID:	QL16010-001	Client Sample ID:	F6R29
Injection Date:	22-Dec-2015 17:12:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-001		
Misc. Info:	92747		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	14
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1010.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	05-Jan-2016 09:50:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	821086	28.049	27.771	
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	42496	3.9689	3.9296	
4 Phenol	94.0	5.133	5.134	-0.001	465416	14.633	14.488	
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	563781	28.554	28.271	
5 bis(2-Chloroethyl)Ether	93.0		5.230		ND			
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	654001	33.768	33.434	
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	319591	20.000	19.802	
10 2-Methylphenol	108.0	5.614	5.614	0.000	1054652	49.009	48.524	
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.705	5.710	-0.005	580557	27.303	27.033	
14 4-Methylphenol	108.0	5.732	5.732	0.000	594043	25.445	25.193	
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	350434	29.870	29.574	
17 Nitrobenzene	77.0		5.930		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	734305	28.687	28.403	
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	427560	31.824	31.509	
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			

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Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122217.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.368	-0.006	555830	28.182	27.903	
22 2,4-Dichlorophenol	162.0		6.373		ND			
* 23 Naphthalene-d8	136.0	6.512	6.517	-0.005	1357052	20.000	19.802	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.538	6.544	-0.006	306586	10.312	10.210	Q
25 4-Chloroaniline	127.0		6.549		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.918		ND			
29 2-Methylnaphthalene	142.0		7.105		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.522		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.681	7.687	-0.006	1712301	35.791	35.437	
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.868	7.869	-0.001	1975713	31.211	30.902	
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	732441	20.000	19.802	
43 2,4-Dinitrophenol	184.0		8.018		ND			
42 Acenaphthene	153.0		8.024		ND			
$ 100 4-Nitrophenol-d4	143.0	8.029	8.034	-0.005	357524	30.566	30.264	
44 4-Nitrophenol	109.0		8.040		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1447374	32.245	31.926	
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.461	8.472	-0.011	300676	24.909	24.663	Q
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.943		ND			
57 Pentachlorophenol	266.0		9.087		ND			
* 58 Phenanthrene-d10	188.0	9.268	9.268	0.000	1326234	20.000	19.802	
59 Phenanthrene	178.0		9.290		ND			
$ 103 Anthracene-d10	188.0	9.316	9.316	0.000	1639961	24.255	24.015	
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.664		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2430750	36.803	36.439	

	Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
	64 Pyrene	202.0		10.663		ND			
	66 Butylbenzylphthalate	149.0		11.277		ND			
	71 bis(2-Ethylhexyl)phthalate	149.0		12.004		ND			
	68 3,3'-Dichlorobenzidine	252.0		12.068		ND			
	67 Benzo(a)anthracene	228.0		12.159		ND			
*	69 Chrysene-d12	240.0	12.169	12.180	-0.011	1513688	20.000	19.802	
	70 Chrysene	228.0		12.217		ND			
	72 Di-n-octylphthalate	149.0		12.992		ND			
	73 Benzo(b)fluoranthene	252.0		13.809		ND			
	74 Benzo(k)fluoranthene	252.0		13.852		ND			
$	105 Benzo(a)pyrene-d12	264.0	14.311	14.317	-0.006	1117974	15.667	15.512	
	75 Benzo(a)pyrene	252.0		14.370		ND			
*	76 Perylene-d12	264.0	14.450	14.461	-0.011	1472010	20.000	19.802	
	77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
	78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
	79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Lab Sample ID:	QL16010-001	Client Sample ID:	F6R29
Injection Date:	22-Dec-2015 17:12:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-001		
Misc. Info:	92747		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	14
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1010.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	05-Jan-2016 09:50:30

Tentative Identified Compound Results

RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown						
3.552	242719	2.1580	2.1367	8				
		Unknown						
3.744	240944	2.1422	2.1210	8				
	576-26-1	Phenol, 2,6-dimethyl-						
5.983	564959	5.0230	4.9733	8	98	9926	C8H10O	122
	90-00-6	Phenol, 2-ethyl-						
6.089	675869	4.6062	4.5606	23	95	9907	C8H10O	122
	620-17-7	Phenol, 3-ethyl-						
6.255	1496742	10.201	10.100	23	91	9912	C8H10O	122
	108-68-9	Phenol, 3,5-dimethyl-						
6.335	334122	2.2771	2.2546	23	91	9928	C8H10O	122
	95-65-8	Phenol, 3,4-dimethyl-						
6.415	450485	3.0702	3.0398	23	97	9935	C8H10O	122
	99-89-8	Phenol, 4-(1-methylethyl)-						
6.576	321937	2.1941	2.1724	23	97	16444	C9H12O	136
		Unknown						
7.895	412655	2.4848	2.4602	41				
	506-17-2	cis-Vaccenic acid						
10.283	953320	5.0041	4.9545	58	99	129339	C18H34O2	282

Quant. Compounds	RT	Response	Amount ng/ul

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.470	2249470	20.000
* 23 Naphthalene-d8	6.512	2934597	20.000
* 41 Acenaphthene-d10	7.997	3321417	20.000
* 58 Phenanthrene-d10	9.268	3810175	20.000

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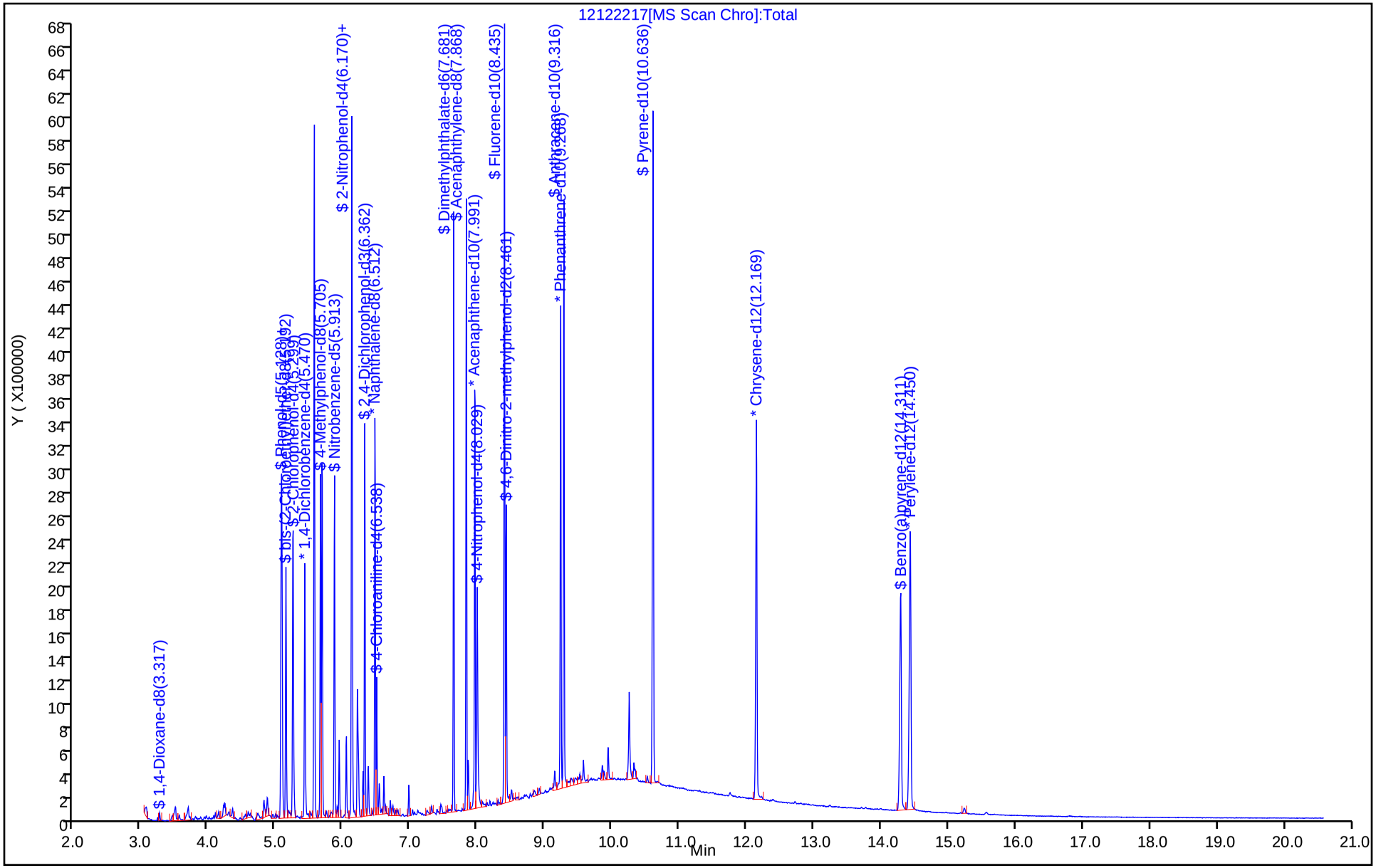
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D				
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R29	Lab ID:	QL16010-001		
Sample Info:	12122215.b, QL16010-001				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

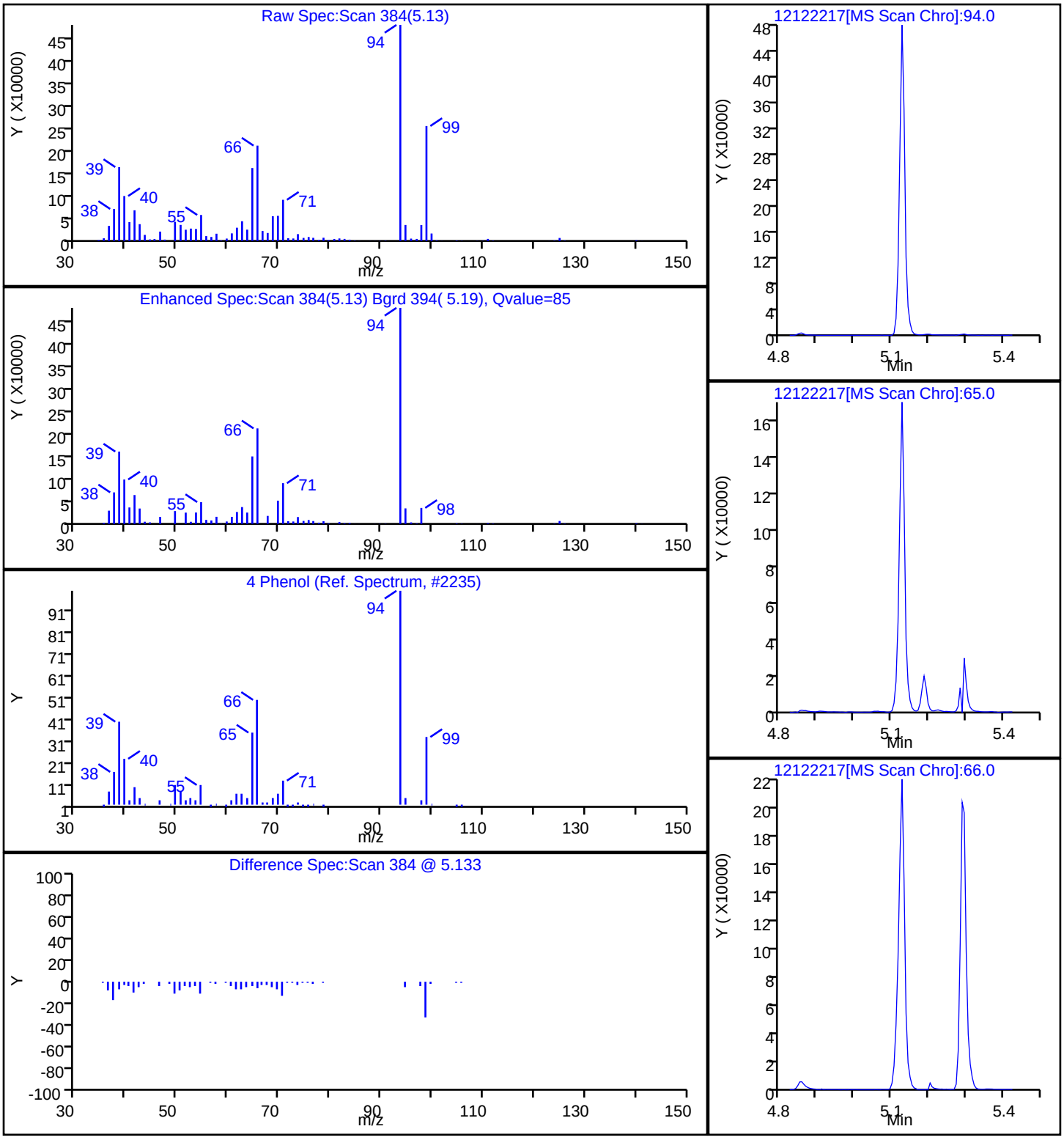


Report Date: 05-Jan-2016 09:50:15 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

4 Phenol



Report Date: 05-Jan-2016 09:50:15 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

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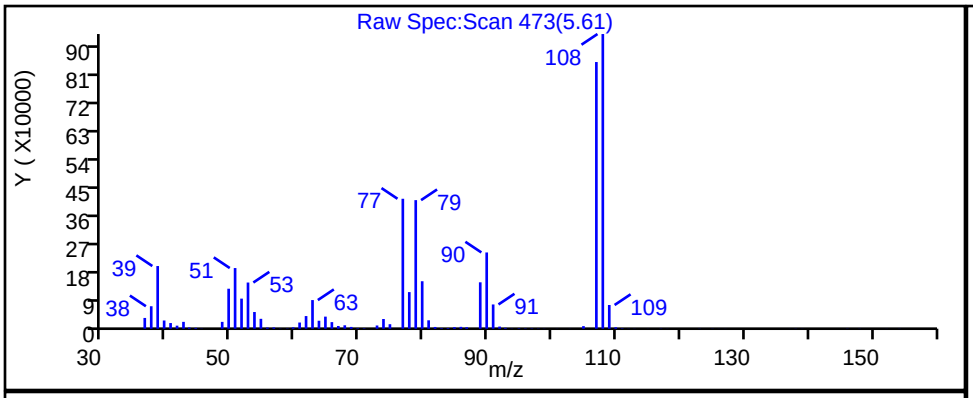
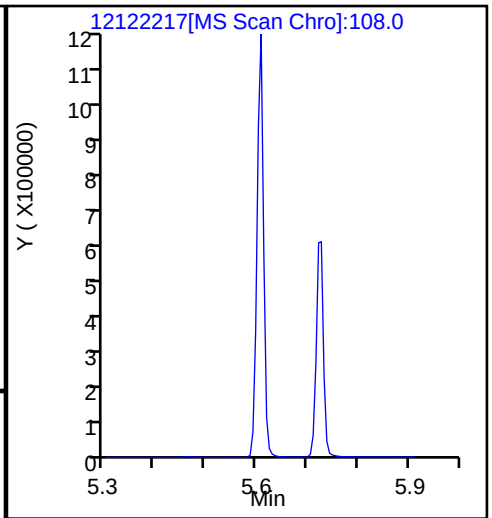
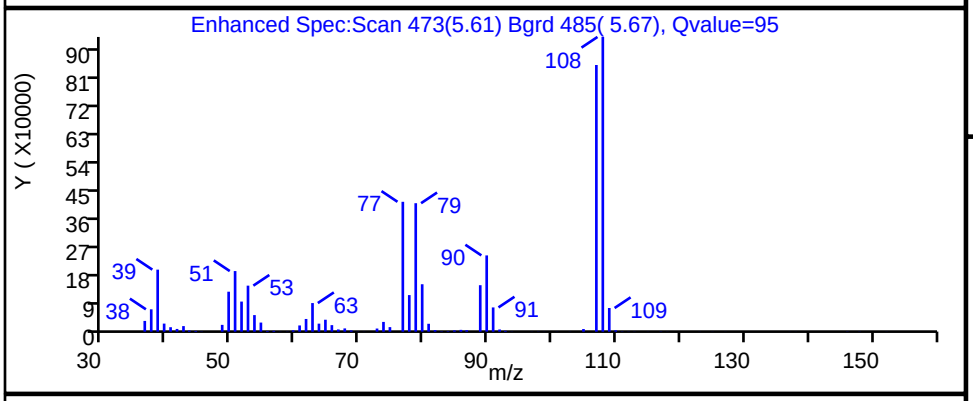
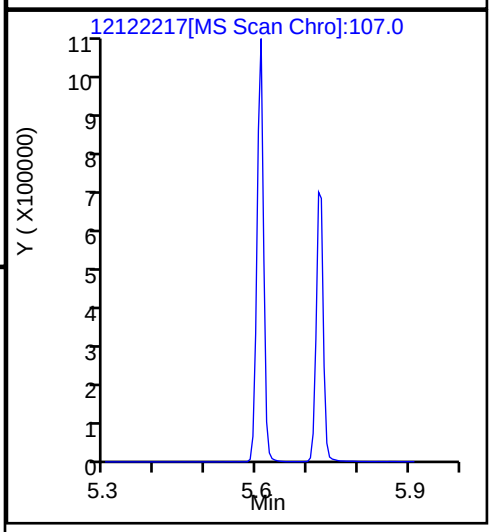
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

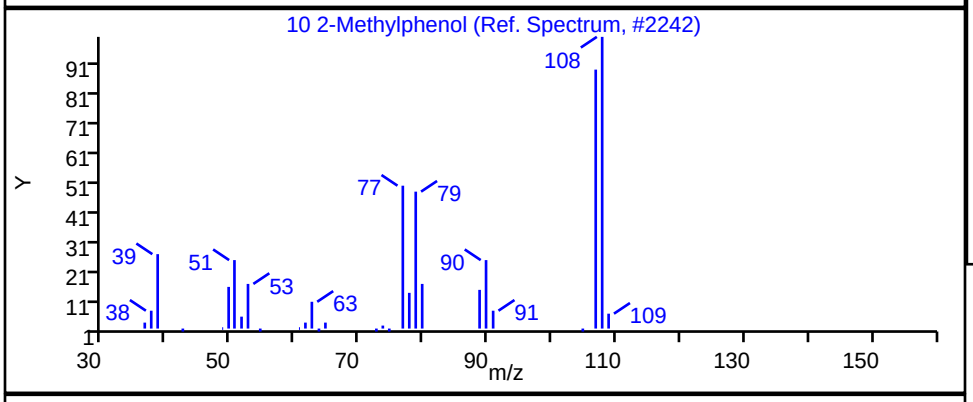
10 2-Methylphenol

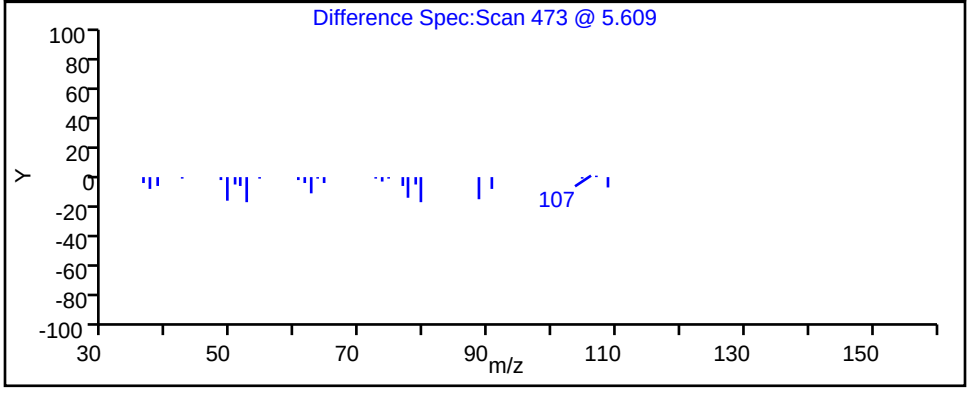










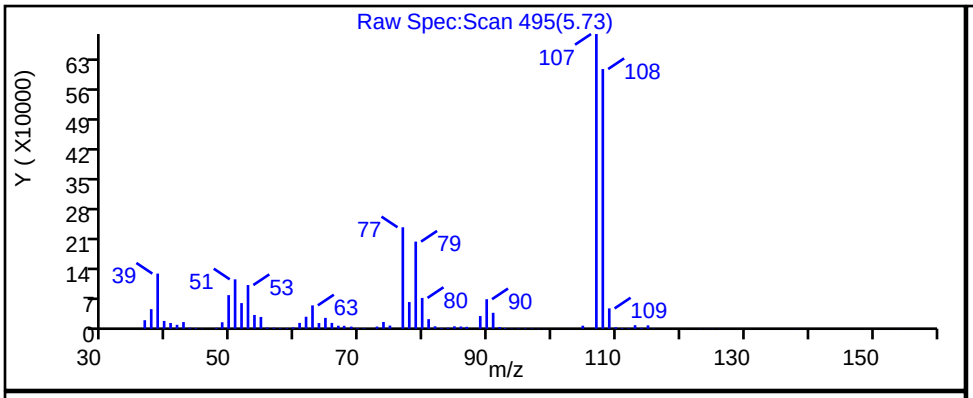


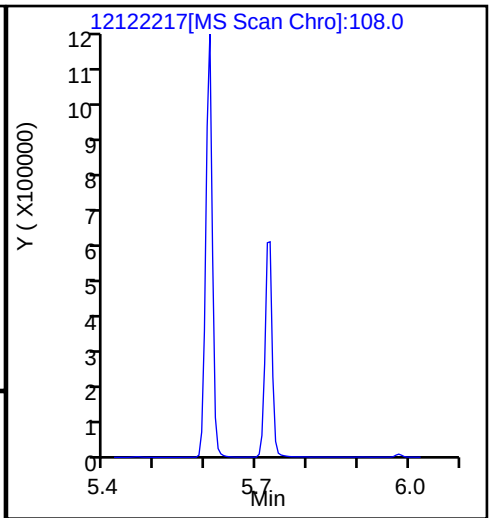
Report Date: 05-Jan-2016 09:50:15 AIM Revision: 1.0 26-May-2015 13:41:26

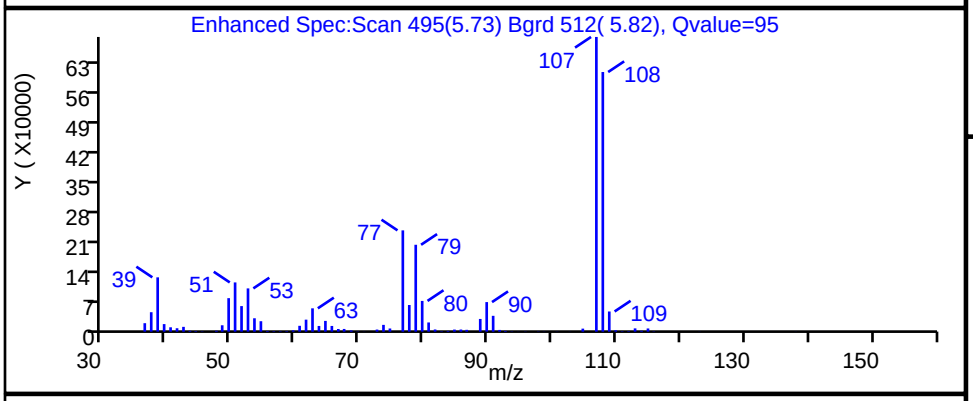
Shealy Environmental Services

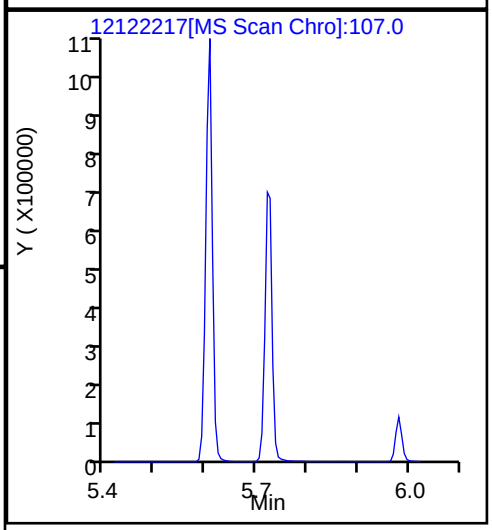
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

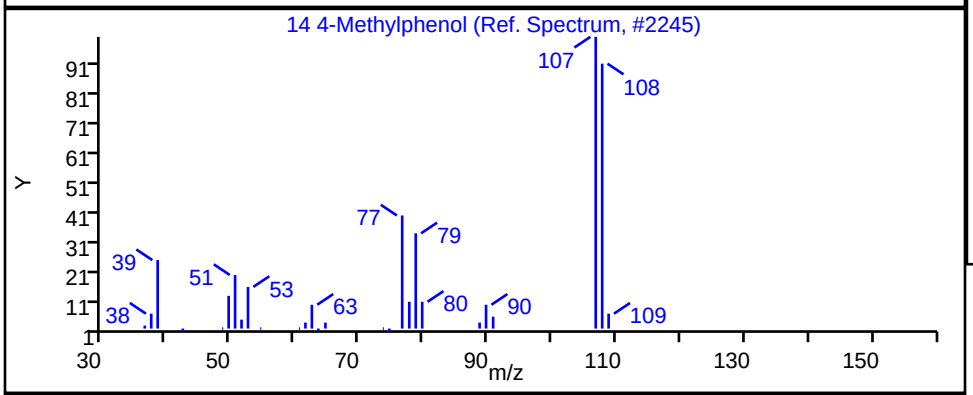
14 4-Methylphenol

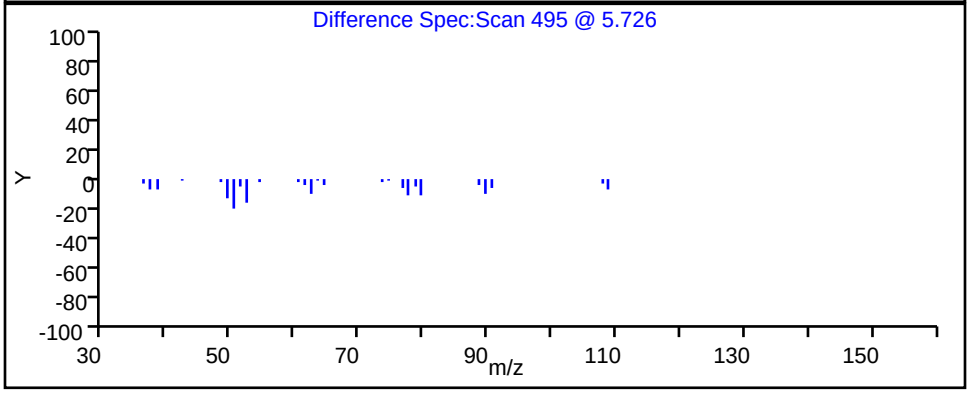










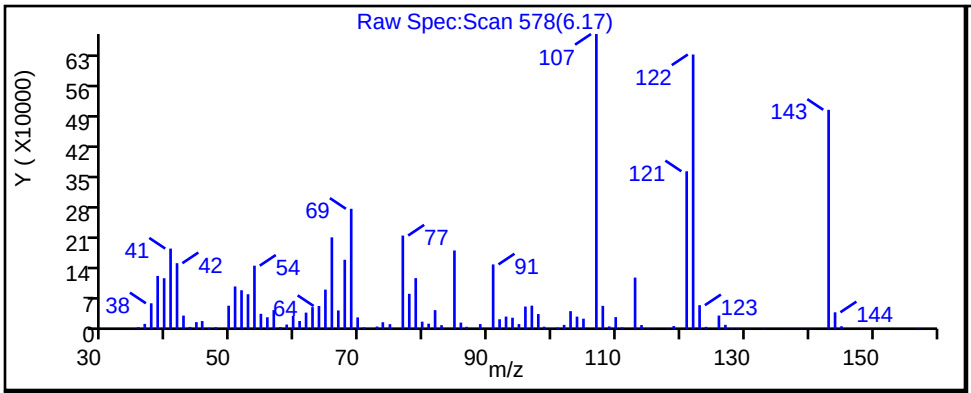


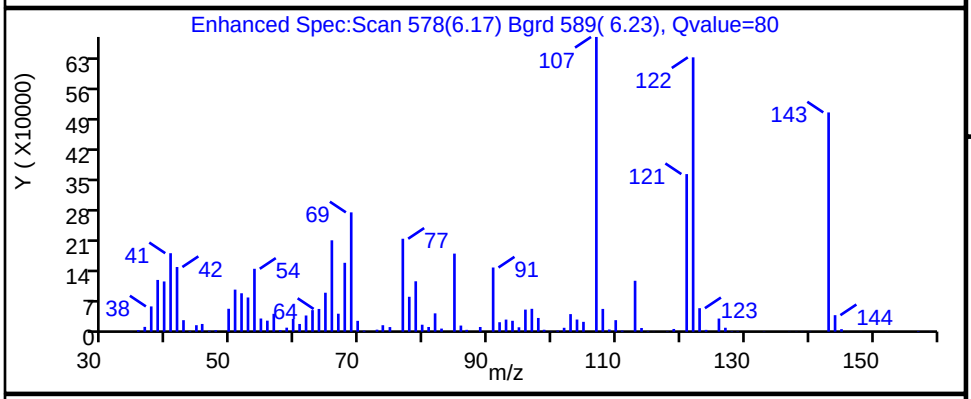
Report Date: 05-Jan-2016 09:50:15 AIM Revision: 1.0 26-May-2015 13:41:26

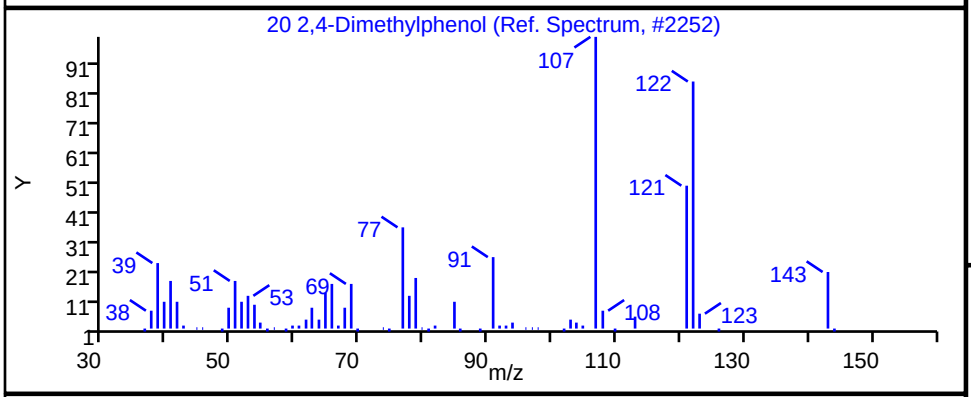
Shealy Environmental Services

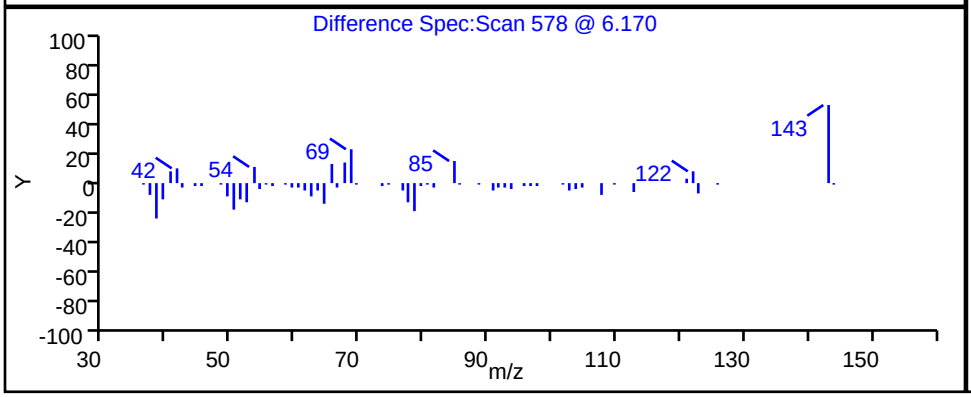
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

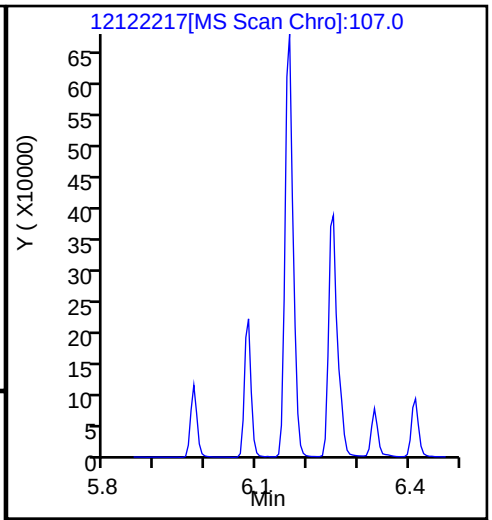
20 2,4-Dimethylphenol

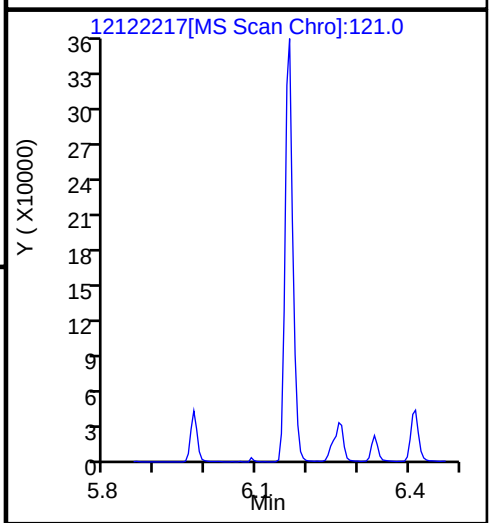


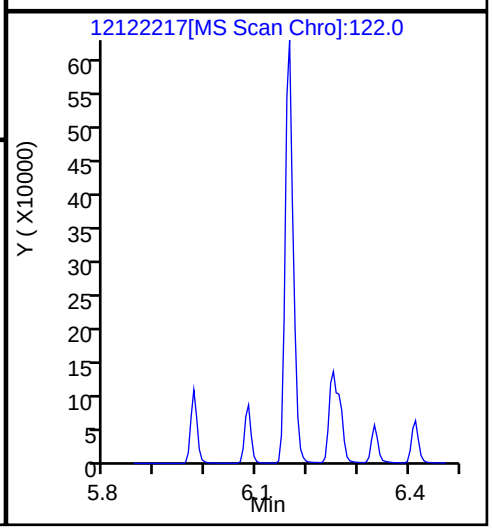












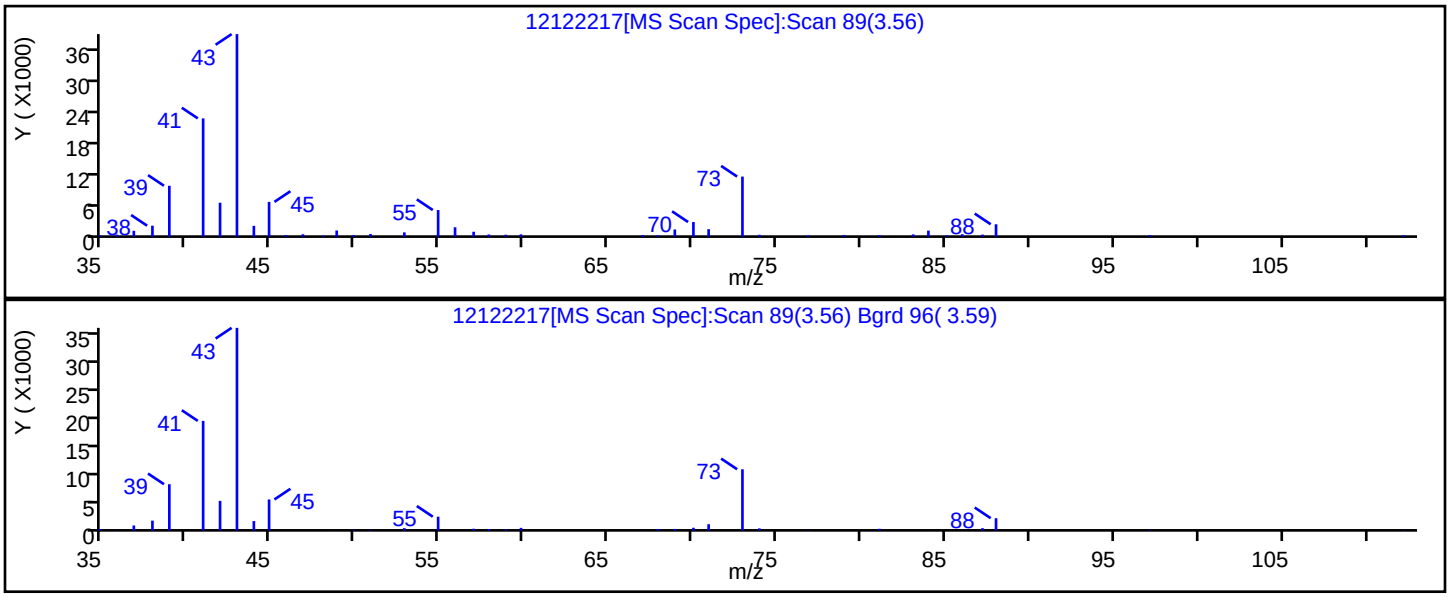
Report Date: 05-Jan-2016 09:50:15 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 3.552

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



Report Date: 05-Jan-2016 09:50:16 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 3.744

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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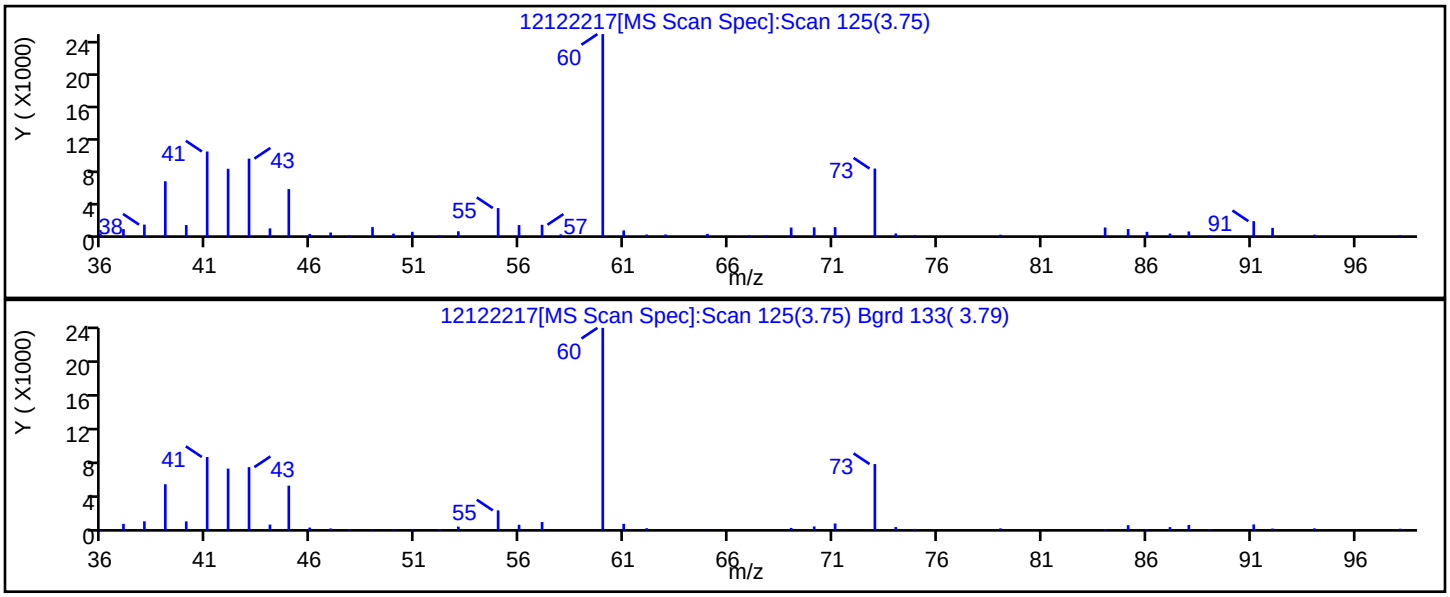


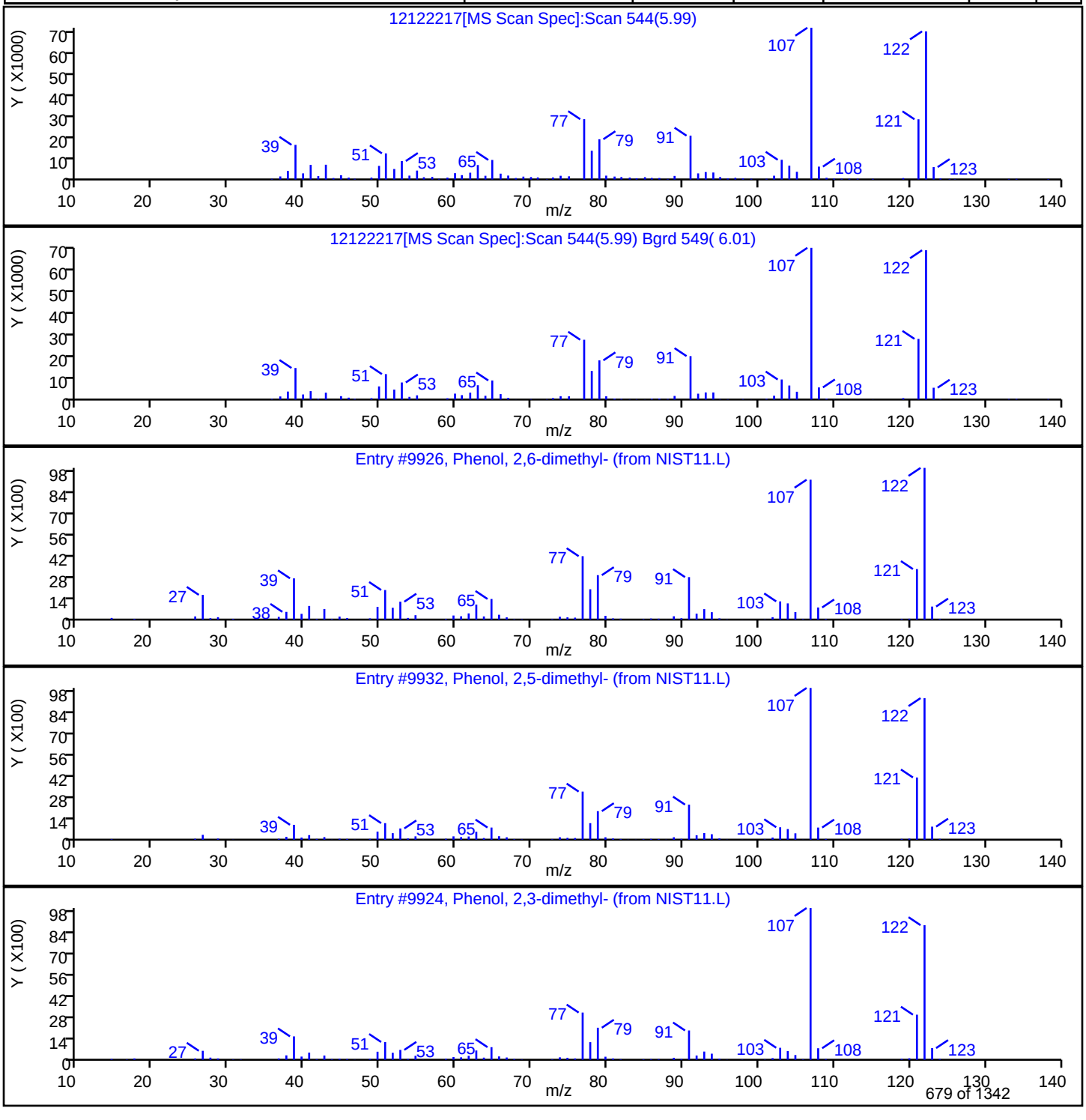
Report Date: 05-Jan-2016 09:50:16 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.983

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,6-dimethyl-	576-26-1	NIST11	9926	C8H10O	122	98
Phenol, 2,5-dimethyl-	95-87-4	NIST11	9932	C8H10O	122	97
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9924	C8H10O	122	95



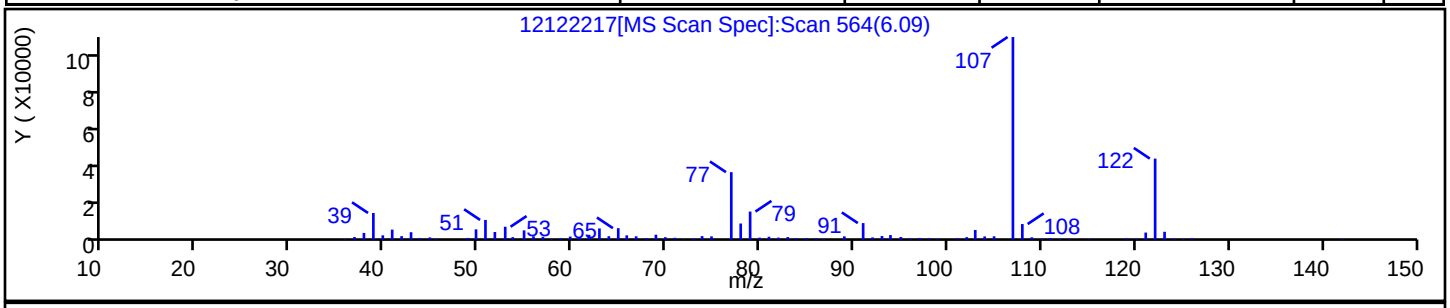
Report Date: 05-Jan-2016 09:50:16 AIM Revision: 1.0 26-May-2015 13:41:26

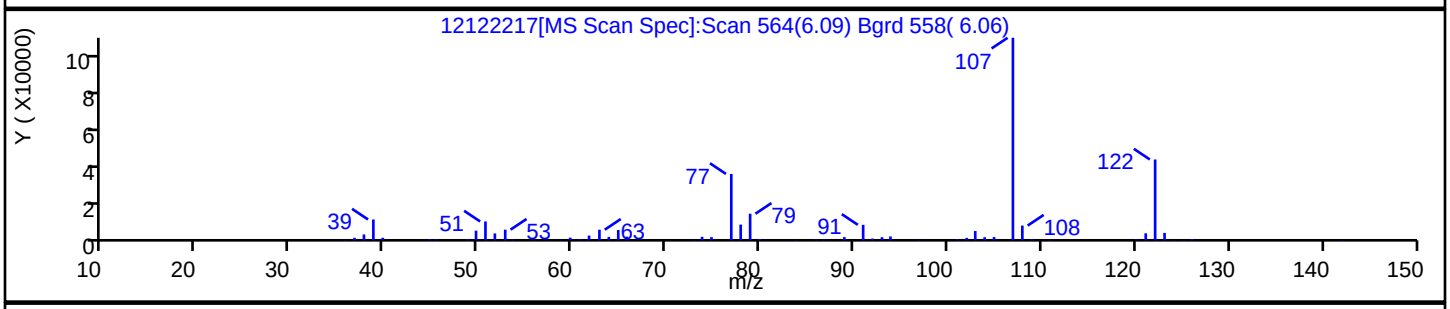
Shealy Environmental Services

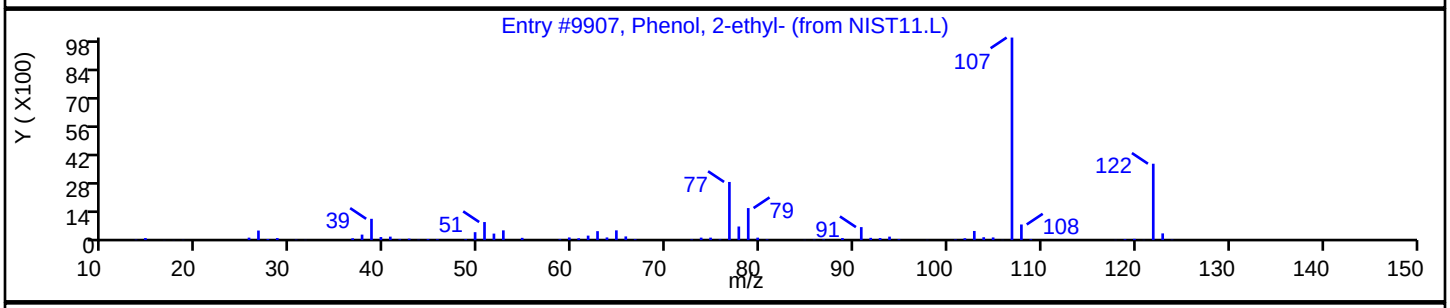
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

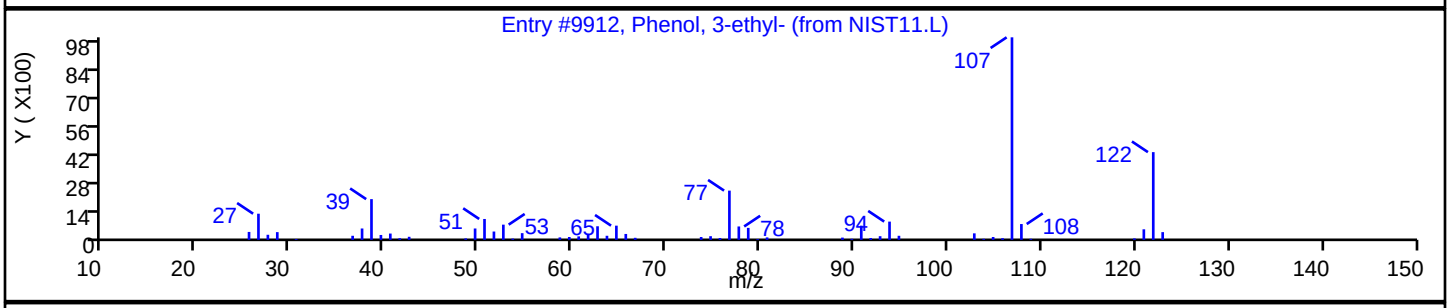
TIC @ 6.089

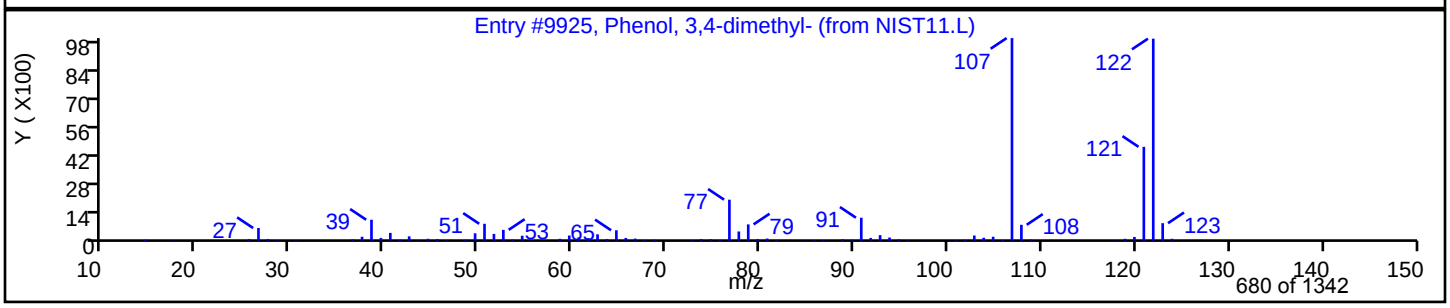
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	95
Phenol, 3-ethyl-	620-17-7	NIST11	9912	C8H10O	122	91
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9925	C8H10O	122	87











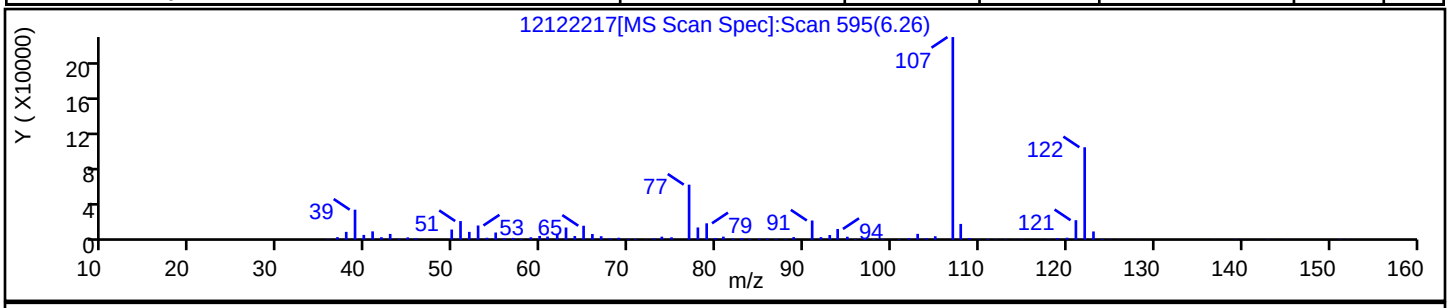
Report Date: 05-Jan-2016 09:50:16 AIM Revision: 1.0 26-May-2015 13:41:26

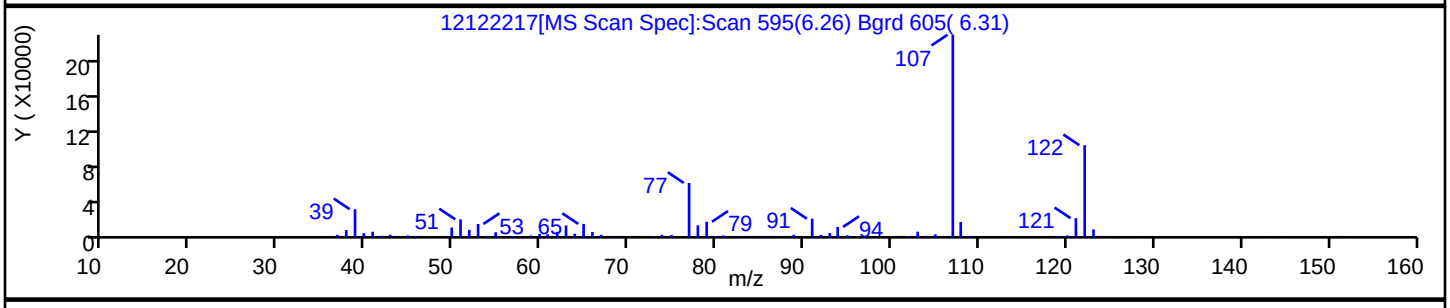
Shealy Environmental Services

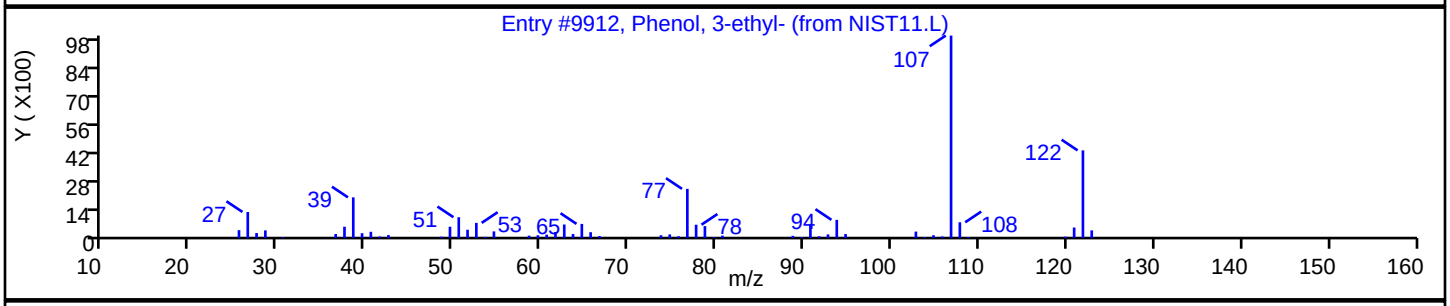
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

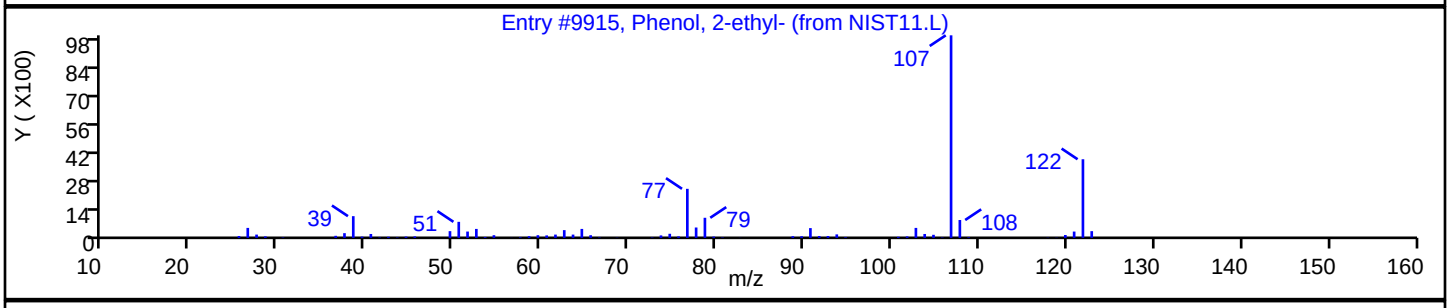
TIC @ 6.255

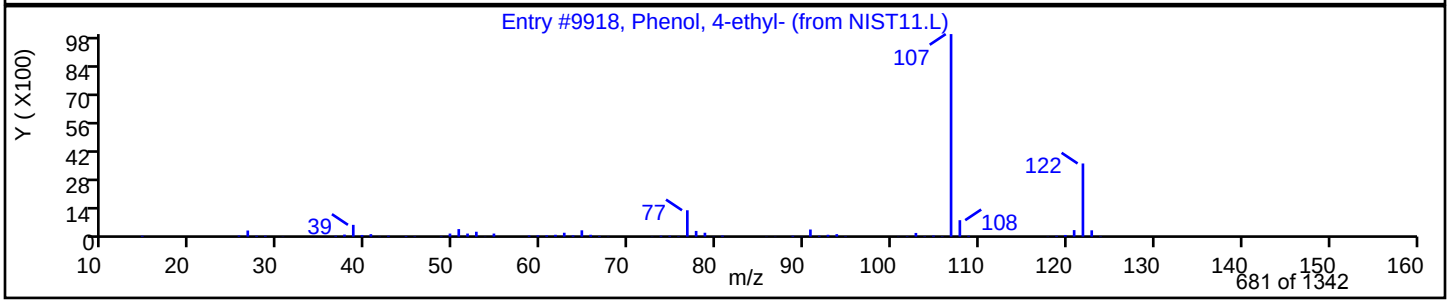
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3-ethyl-	620-17-7	NIST11	9912	C8H10O	122	91
Phenol, 2-ethyl-	90-00-6	NIST11	9915	C8H10O	122	91
Phenol, 4-ethyl-	123-07-9	NIST11	9918	C8H10O	122	91











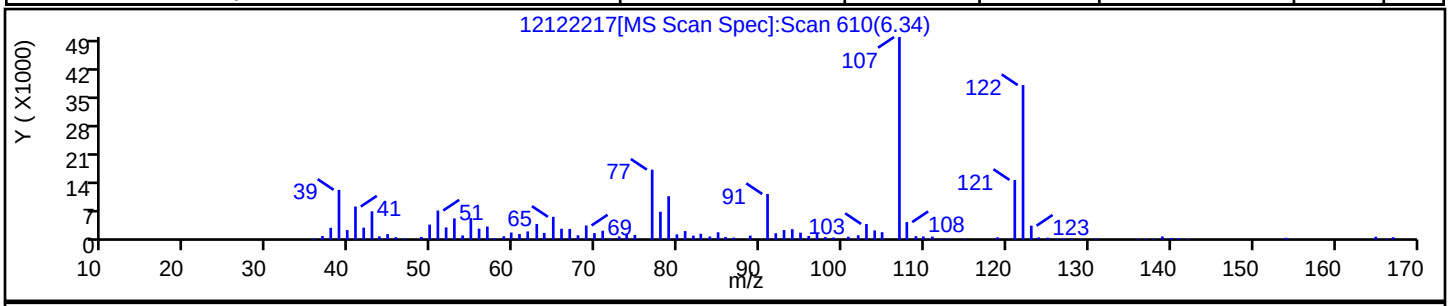
Report Date: 05-Jan-2016 09:50:16 AIM Revision: 1.0 26-May-2015 13:41:26

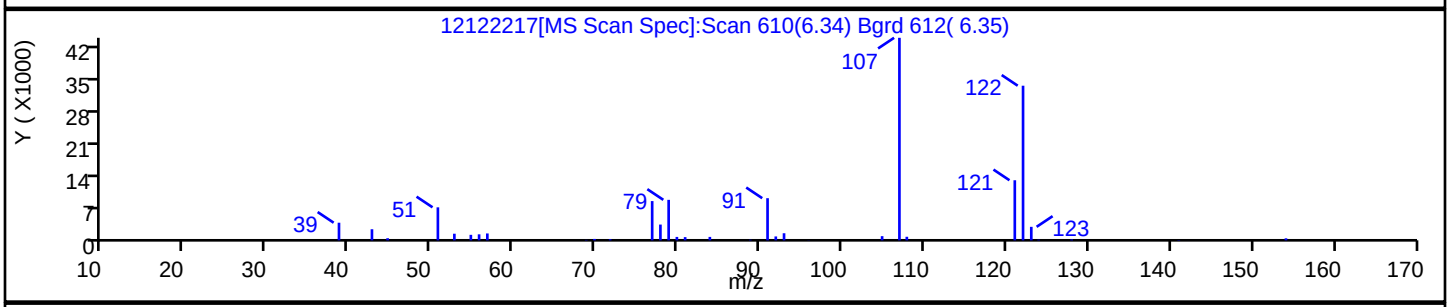
Shealy Environmental Services

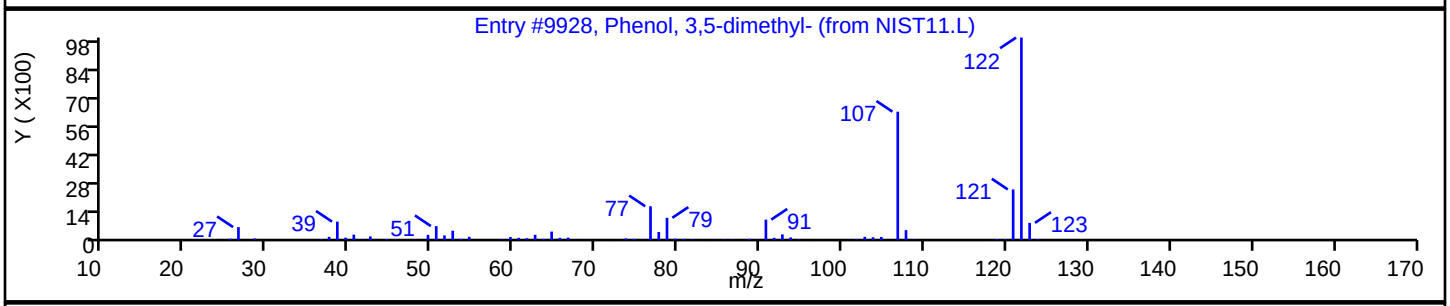
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

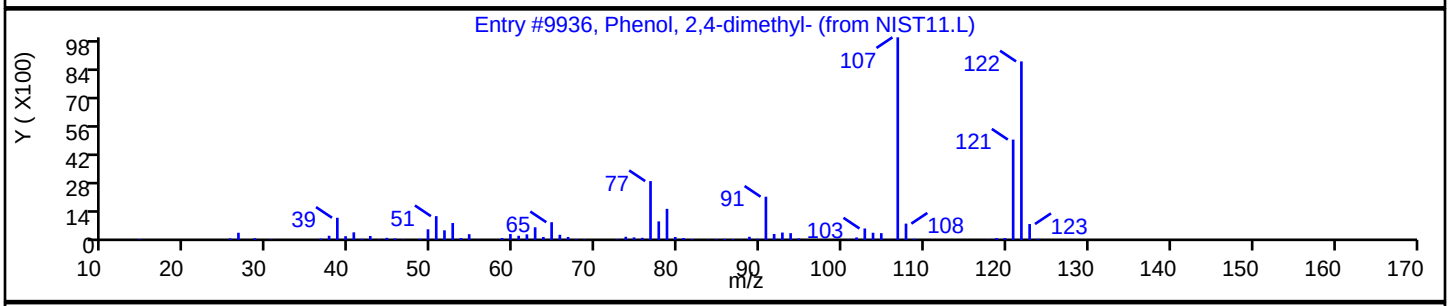
TIC @ 6.335

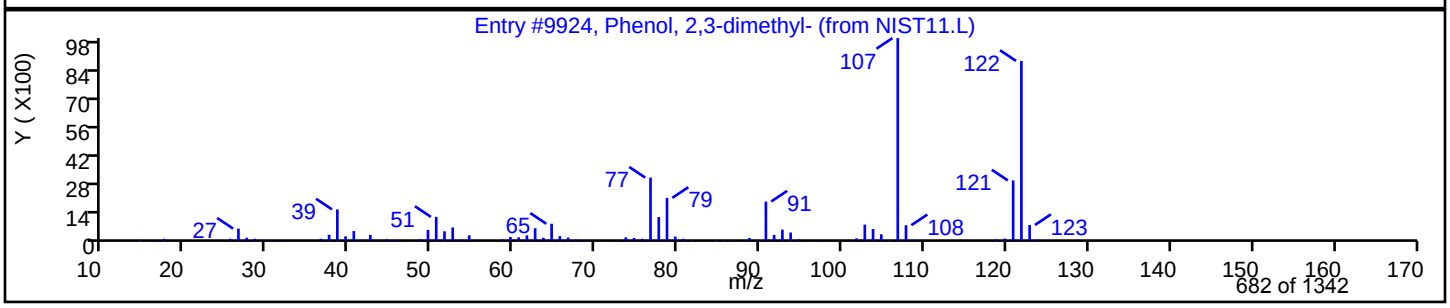
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,5-dimethyl-	108-68-9	NIST11	9928	C8H10O	122	91
Phenol, 2,4-dimethyl-	105-67-9	NIST11	9936	C8H10O	122	94
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9924	C8H10O	122	91











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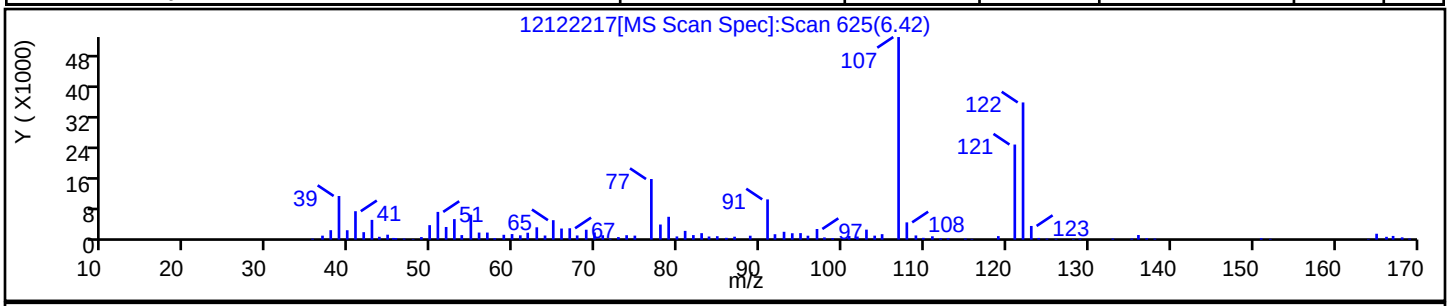
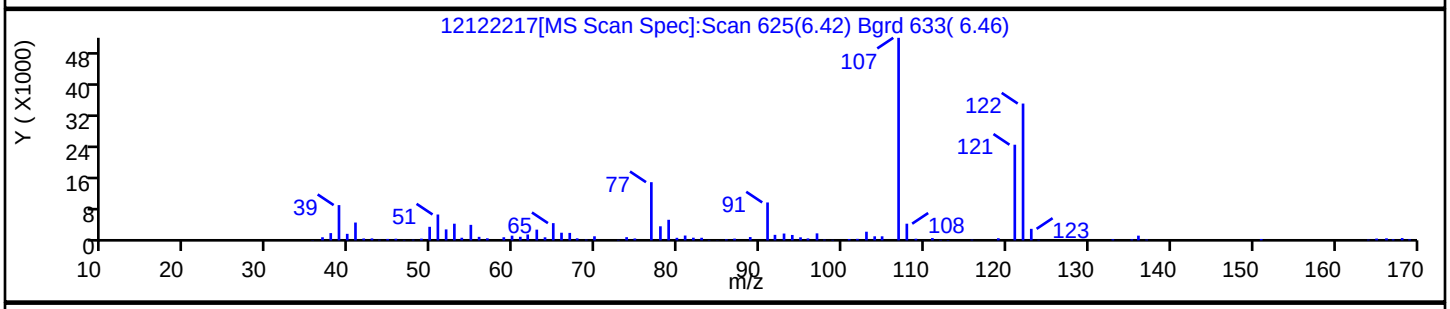
Shealy Environmental Services

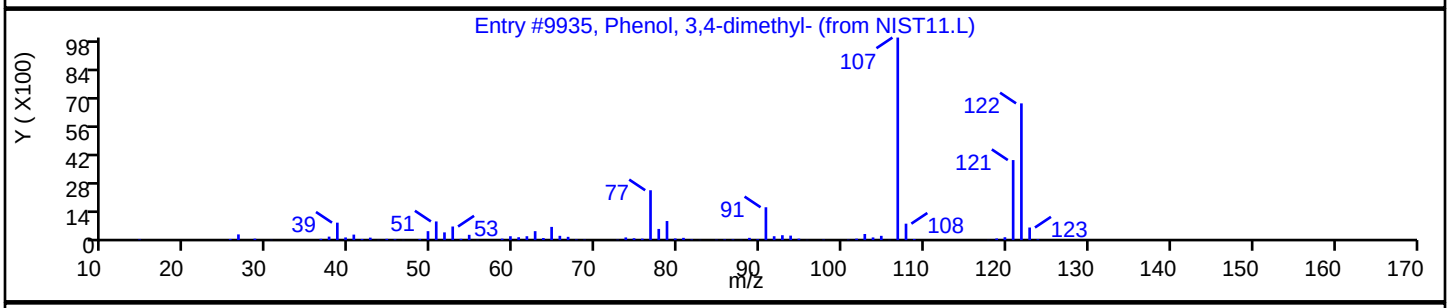
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

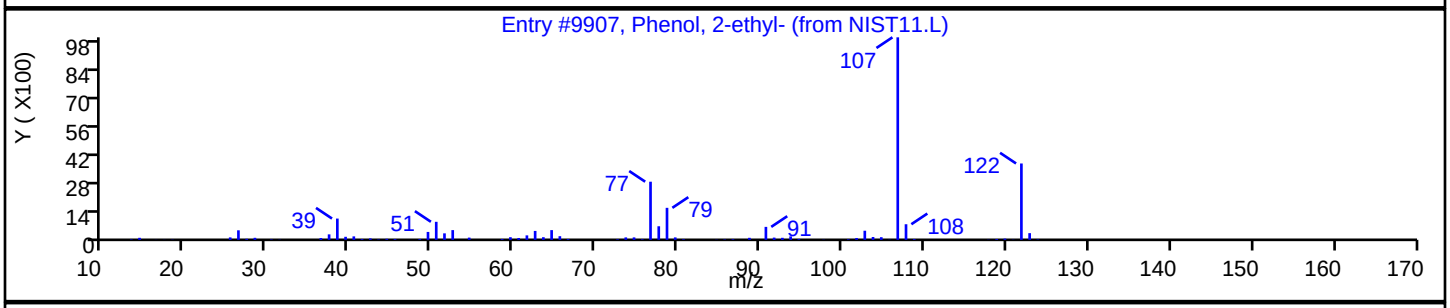
TIC @ 6.415

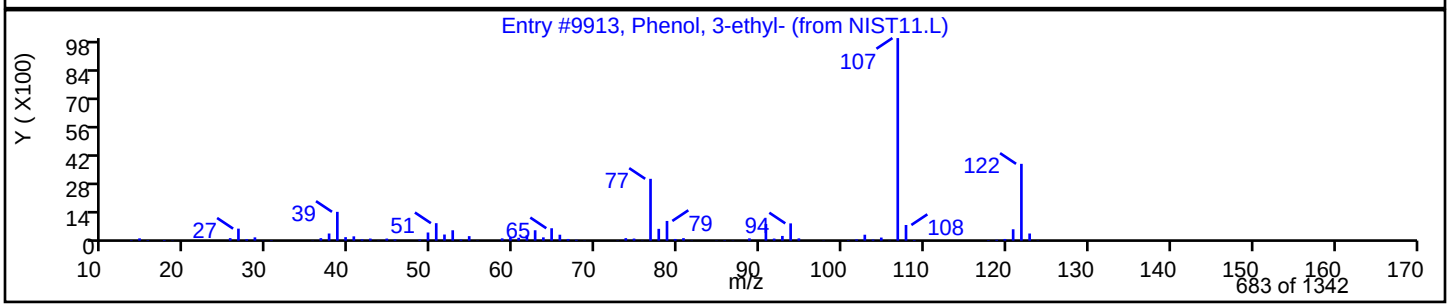
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9935	C8H10O	122	97
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	93
Phenol, 3-ethyl-	620-17-7	NIST11	9913	C8H10O	122	87











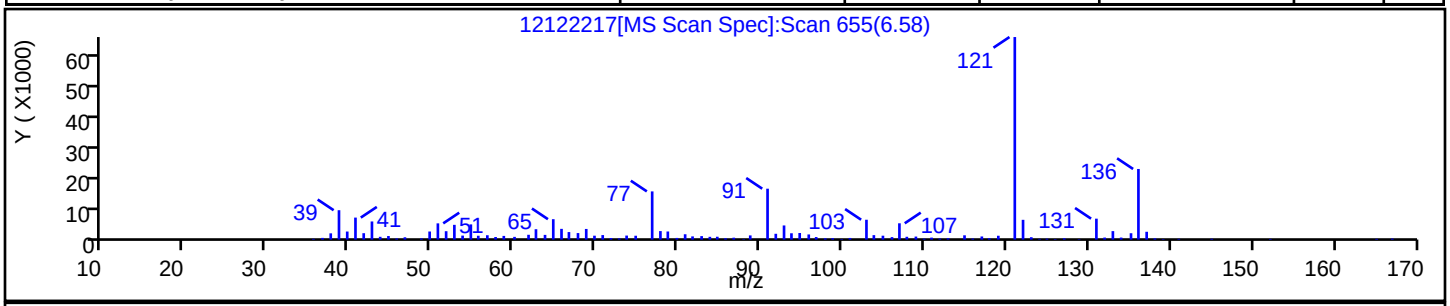
Report Date: 05-Jan-2016 09:50:16 AIM Revision: 1.0 26-May-2015 13:41:26

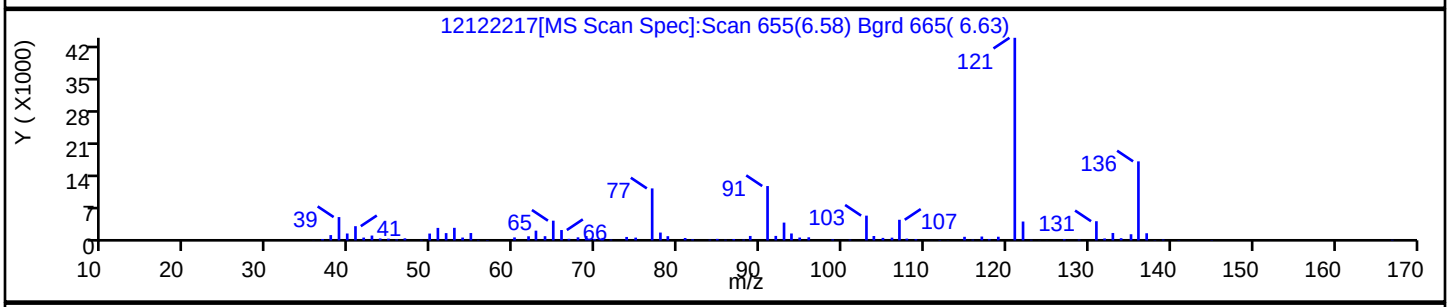
Shealy Environmental Services

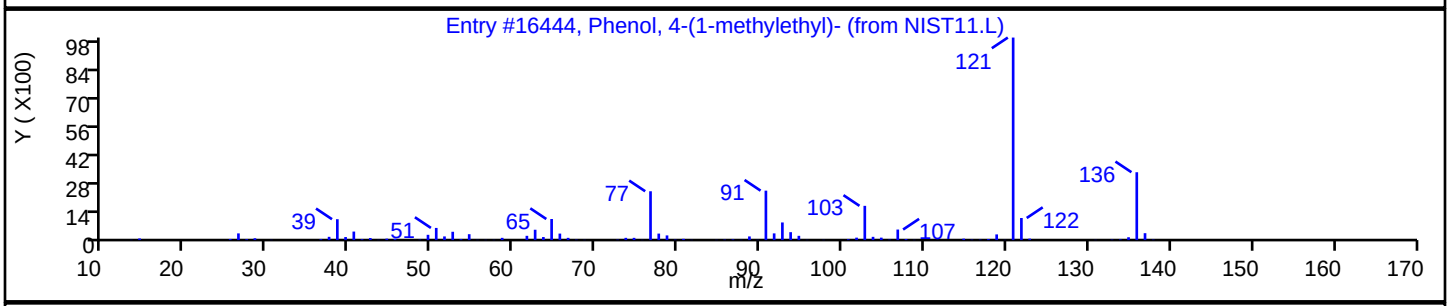
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

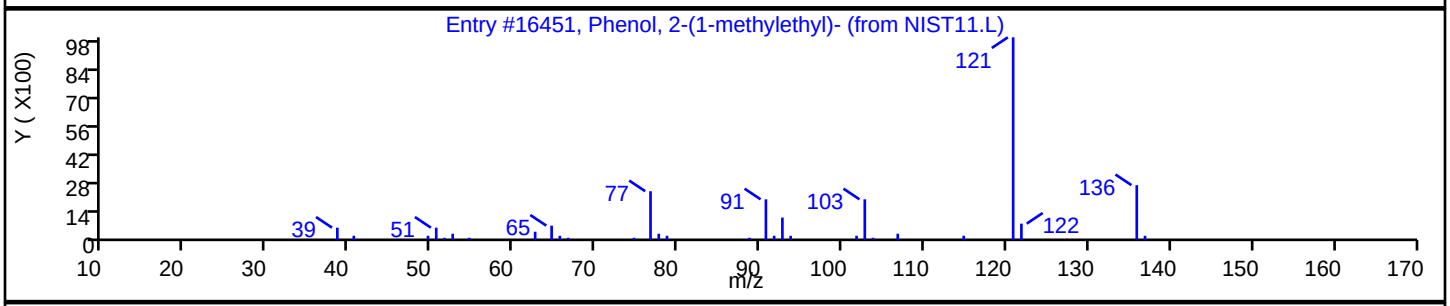
TIC @ 6.576

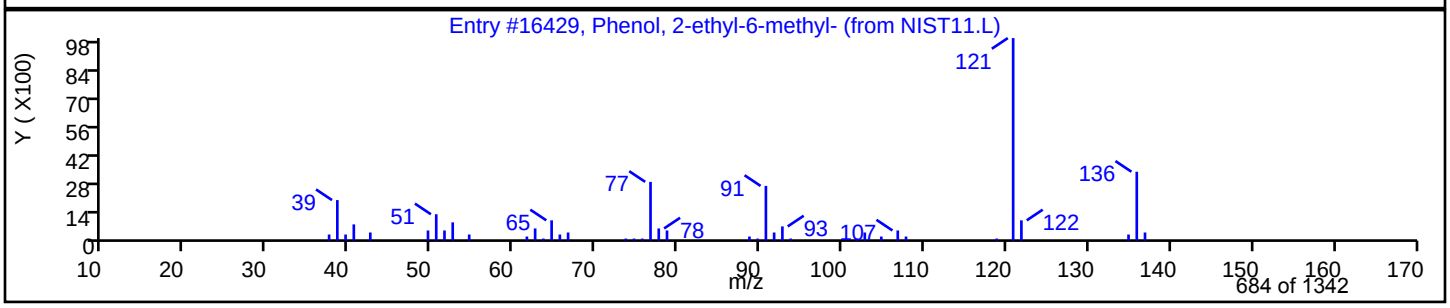
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4-(1-methylethyl)-	99-89-8	NIST11	16444	C9H12O	136	97
Phenol, 2-(1-methylethyl)-	88-69-7	NIST11	16451	C9H12O	136	91
Phenol, 2-ethyl-6-methyl-	1687-64-5	NIST11	16429	C9H12O	136	90











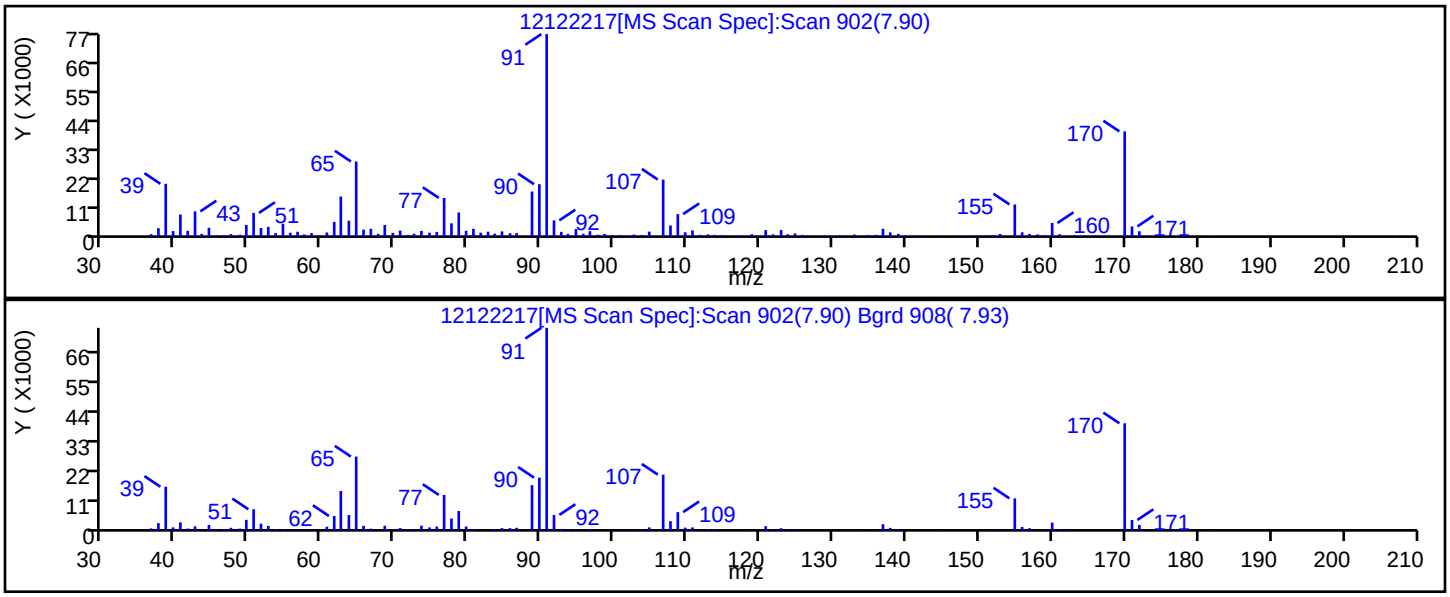
Report Date: 05-Jan-2016 09:50:16 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.895

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



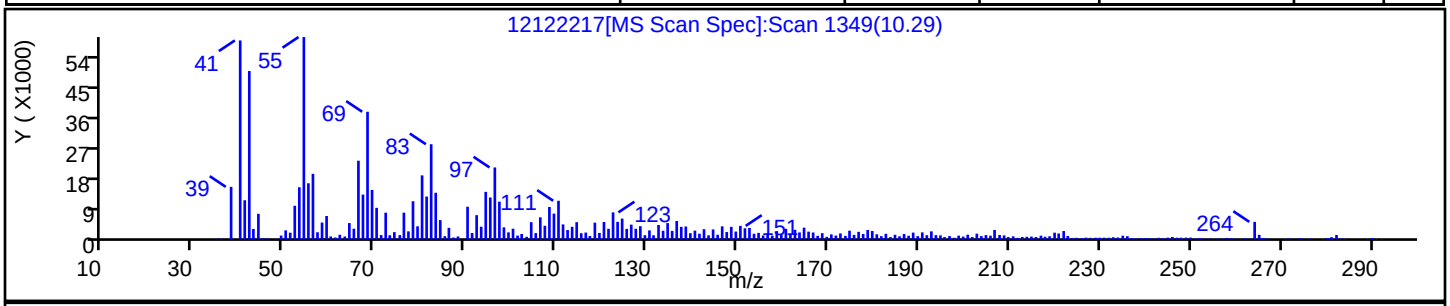
Report Date: 05-Jan-2016 09:50:16 AIM Revision: 1.0 26-May-2015 13:41:26

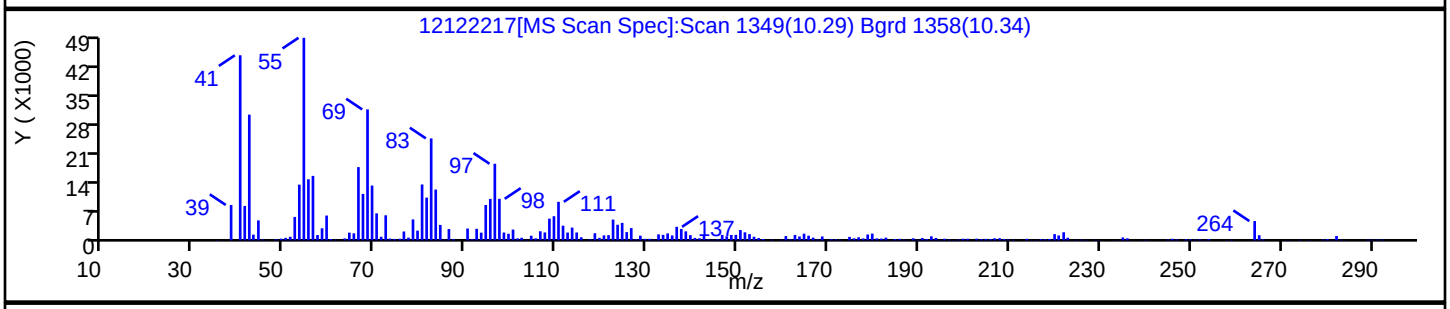
Shealy Environmental Services

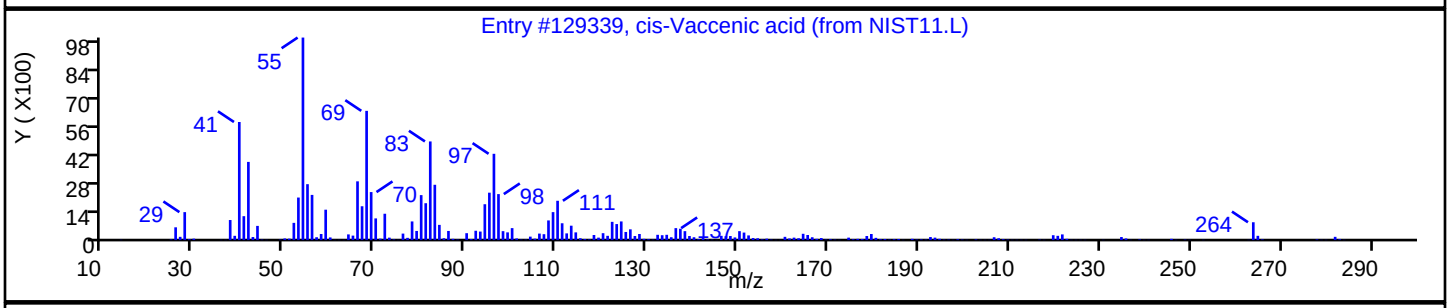
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122217.D		
Injection Date:	22-Dec-2015 17:12:30	Inst. ID:	msd12.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	12122215.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

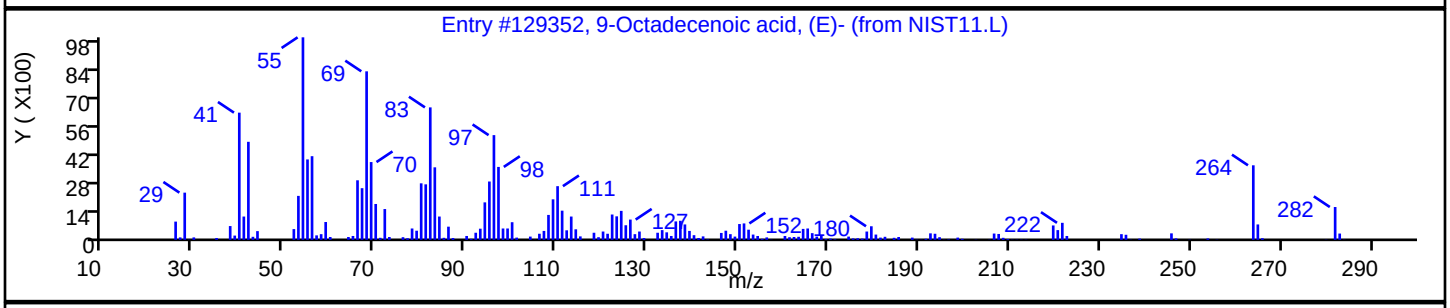
TIC @ 10.283

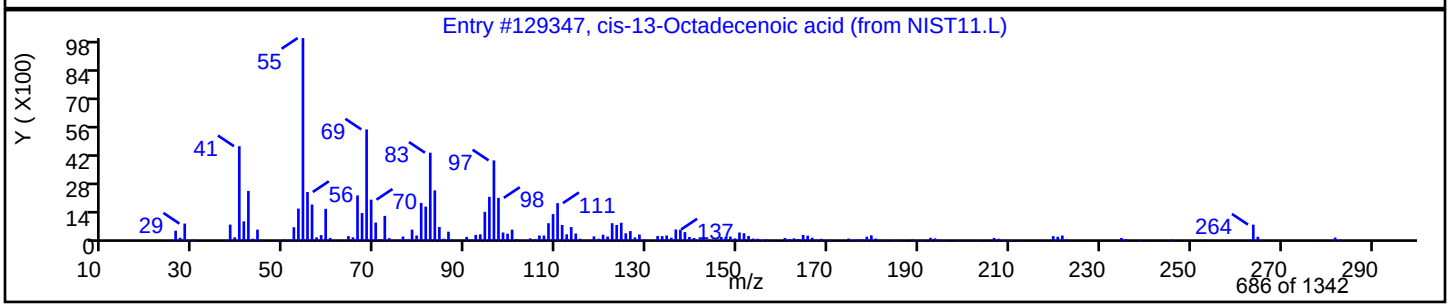
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
cis-Vaccenic acid	506-17-2	NIST11	129339	C18H34O2	282	99
9-Octadecenoic acid, (E)-	112-79-8	NIST11	129352	C18H34O2	282	99
cis-13-Octadecenoic acid	13126-39-1	NIST11	129347	C18H34O2	282	99











FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R29RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-001

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123104

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	1.9	U
100-52-7	Benzaldehyde	9.5	U
108-95-2	Phenol	9.5	U
111-44-4	Bis(2-Chloroethyl) ether	9.5	U
95-57-8	2-Chlorophenol	4.8	U
95-48-7	2-Methylphenol	9.5	U
108-60-1	2,2'-Oxybis(1-chloropropane)	9.5	U
98-86-2	Acetophenone	9.5	U
106-44-5	4-Methylphenol	9.5	U
621-64-7	N-Nitroso-di-n propylamine	4.8	U
67-72-1	Hexachloroethane	4.8	U
98-95-3	Nitrobenzene	4.8	U
78-59-1	Isophorone	4.8	U
88-75-5	2-Nitrophenol	4.8	U
105-67-9	2,4-Dimethylphenol	4.8	U
111-91-1	Bis(2-chloroethoxy)methane	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U
91-20-3	Naphthalene	4.8	U
106-47-8	4-Chloroaniline	9.5	U
87-68-3	Hexachlorobutadiene	4.8	U
105-60-2	Caprolactam	9.5	U
59-50-7	4-Chloro-3-methylphenol	4.8	U
91-57-6	2-Methylnaphthalene	4.8	U
77-47-4	Hexachlorocyclo-pentadiene	9.5	U
88-06-2	2,4,6-Trichlorophenol	4.8	U
95-95-4	2,4,5-Trichlorophenol	4.8	U
92-52-4	1,1'-Biphenyl	4.8	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R29RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-001

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123104

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	4.8	U
88-74-4	2-Nitroaniline	4.8	U
131-11-3	Dimethylphthalate	4.8	U
606-20-2	2,6-Dinitrotoluene	4.8	U
208-96-8	Acenaphthylene	4.8	U
99-09-2	3-Nitroaniline	9.5	U
83-32-9	Acenaphthene	4.8	U
51-28-5	2,4-Dinitrophenol	9.5	U
100-02-7	4-Nitrophenol	9.5	U
132-64-9	Dibenzofuran	4.8	U
121-14-2	2,4-Dinitrotoluene	4.8	U
84-66-2	Diethylphthalate	4.8	U
95-94-3	1,2,4,5-Tetrachlorobenzene	4.8	U
7005-72-3	4-Chlorophenyl-phenyl ether	4.8	U
86-73-7	Fluorene	4.8	U
100-01-6	4-Nitroaniline	9.5	U
534-52-1	4,6-Dinitro-2-methylphenol	9.5	U
101-55-3	4-Bromophenyl-phenylether	4.8	U
86-30-6	N-Nitrosodiphenylamine	4.8	U
118-74-1	Hexachlorobenzene	4.8	U
1912-24-9	Atrazine	9.5	U
87-86-5	Pentachlorophenol	9.5	U
85-01-8	Phenanthrene	4.8	U
120-12-7	Anthracene	4.8	U
86-74-8	Carbazole	9.5	U
84-74-2	Di-n-butylphthalate	4.8	U
206-44-0	Fluoranthene	9.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R29RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-001
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 12123104
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/23/2015
GC Column: ID: (mm)
Date Analyzed: 12/31/2015
Extract Concentrated: (Y/N)
Extract Volume: 1000 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: CLLE
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: 7 Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	4.8	U
85-68-7	Butylbenzylphthalate	4.8	U
91-94-1	3,3'-Dichlorobenzidine	9.5	U
56-55-3	Benzo(a)anthracene	4.8	U
218-01-9	Chrysene	4.8	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.8	U
117-84-0	Di-n-octylphthalate	9.5	U
205-99-2	Benzo(b)fluoranthene	4.8	U
207-08-9	Benzo(k)fluoranthene	4.8	U
50-32-8	Benzo(a)pyrene	4.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U
53-70-3	Dibenzo(a,h)anthracene	4.8	U
191-24-2	Benzo(g,h,i)perylene	4.8	U
58-90-2	2,3,4,6-Tetrachlorophenol	4.8	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R29RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-001
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 12123104
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/23/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/31/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 7 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	7.89	2.5	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123104.D		
Lab Sample ID:	QL16010-001	Client Sample ID:	F6R29RX
Injection Date:	31-Dec-2015 09:46:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QL16010-001		
Misc. Info:	92944		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	2
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	05-Jan-2016 09:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.128	5.133	-0.005	704646	24.439	23.275	
108 1,4-Dioxane	88.0		3.322		ND			
$ 109 1,4-Dioxane-d8	96.0	3.301	3.301	0.000	35703	3.3854	3.2242	
4 Phenol	94.0		5.144		ND			
2 Benzaldehyde	77.0		5.138		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.187	5.192	-0.005	534856	27.503	26.193	
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.294	5.299	-0.005	647421	33.939	32.323	
7 2-Chlorophenol	128.0		5.309		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.465	5.470	-0.005	314783	20.000	19.048	
10 2-Methylphenol	108.0		5.619		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.641		ND			
$ 94 4-Methylphenol-d8	113.0	5.711	5.721	-0.011	529541	25.284	24.080	
14 4-Methylphenol	108.0		5.742		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.763		ND			
12 Acetophenone	105.0		5.779		ND			
15 Hexachloroethane	117.0		5.886		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.913	-0.005	338445	30.121	28.686	
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.175		ND			
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	363448	28.245	26.900	
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.244		ND			

Report Date: 05-Jan-2016 09:19:07 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123104.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.368	6.372	-0.004	479388	25.379	24.170	
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.512	6.511	0.001	1299705	20.000	19.048	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.539	6.543	-0.004	105772	3.7146	3.5377	Qe
25 4-Chloroaniline	127.0		6.533		ND			
26 Hexachlorobutadiene	225.0		6.602		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.933		ND			
29 2-Methylnaphthalene	142.0		7.099		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.323		ND			
32 2,4,5-Trichlorophenol	196.0		7.371		ND			
34 1,1'-Biphenyl	154.0		7.478		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.596		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.681	-0.005	1652702	36.447	34.711	
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.777		ND			
$ 99 Acenaphthylene-d8	160.0	7.863	7.868	-0.005	1883517	31.393	29.898	
38 Acenaphthylene	152.0		7.884		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.992	7.997	-0.005	694229	20.000	19.048	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.023		ND			
$ 100 4-Nitrophenol-d4	143.0	8.056	8.055	0.001	293036	26.432	25.173	
44 4-Nitrophenol	109.0		8.061		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.167		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.258		ND			
47 Diethylphthalate	149.0		8.285		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.430	8.435	-0.005	1328040	31.215	29.729	
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.461		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.462	8.472	-0.010	287751	25.661	24.439	Q
51 4,6-Dinitro-2-methylphenol	198.0		8.483		ND			
52 N-Nitrosodiphenylamine	169.0		8.520		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.931		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.268	-0.005	1232053	20.000	19.048	
59 Phenanthrene	178.0		9.289		ND			
$ 103 Anthracene-d10	188.0	9.311	9.316	-0.005	1552421	24.715	23.538	
60 Anthracene	178.0		9.337		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.663		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2253786	37.880	36.076	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
64 Pyrene	202.0		10.657		ND			
66 Butylbenzylphthalate	149.0		11.271		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		11.998		ND			
68 3,3'-Dichlorobenzidine	252.0		12.067		ND			
67 Benzo(a)anthracene	228.0		12.158		ND			
* 69 Chrysene-d12	240.0	12.169	12.179	-0.010	1363611	20.000	19.048	
70 Chrysene	228.0		12.217		ND			
72 Di-n-octylphthalate	149.0		12.981		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.306	14.316	-0.010	1022493	15.934	15.176	
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.450	14.461	-0.011	1323713	20.000	19.048	
77 Indeno(1,2,3-cd)pyrene	276.0		16.624		ND			
78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123104.D		
Lab Sample ID:	QL16010-001	Client Sample ID:	F6R29RX
Injection Date:	31-Dec-2015 09:46:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QL16010-001		
Misc. Info:	92944		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	2
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	05-Jan-2016 09:19:30

Tentative Identified Compound Results

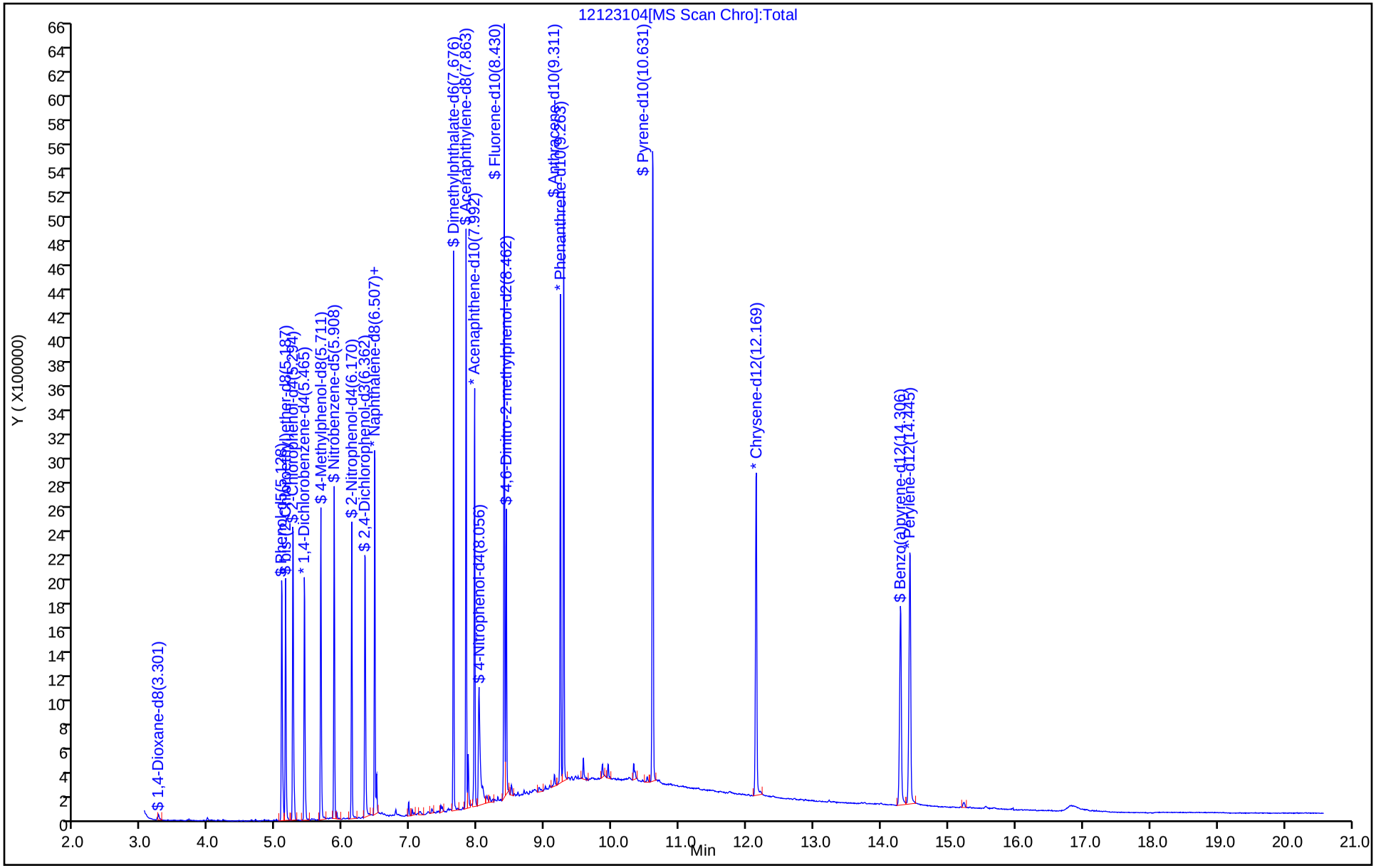
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
7.895	420842	2.6677	2.5407	41				

Quant. Compounds	RT	Response	Amount ng/ul
* 41 Acenaphthene-d10	7.992	3155114	20.000

Report Date: 05-Jan-2016 09:19:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123104.D				
Injection Date:	31-Dec-2015 09:46:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R29RX	Lab ID:	QL16010-001		
Sample Info:	12123115.b, QL16010-001				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



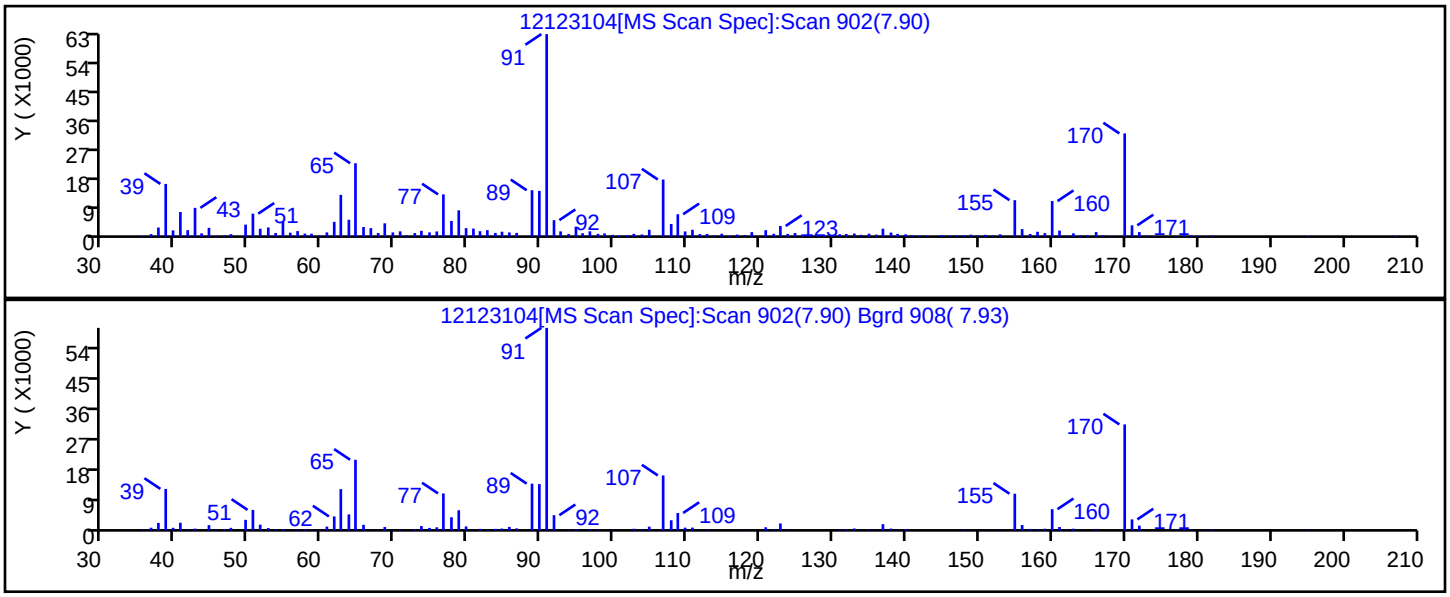
Report Date: 05-Jan-2016 09:19:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123104.D		
Injection Date:	31-Dec-2015 09:46:30	Inst. ID:	msd12.i
Client ID:	F6R29RX	Lab ID:	QL16010-001
Sample Info:	12123115.b, QL16010-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.895

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R30

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-009

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122220

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 10.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	19	U
100-52-7	Benzaldehyde	95	U
108-95-2	Phenol	95	U
111-44-4	Bis(2-Chloroethyl) ether	95	U
95-57-8	2-Chlorophenol	48	U
95-48-7	2-Methylphenol	4.3	J B
108-60-1	2,2'-Oxybis(1-chloropropane)	95	U
98-86-2	Acetophenone	95	U
106-44-5	4-Methylphenol	4.3	J B
621-64-7	N-Nitroso-di-n propylamine	48	U
67-72-1	Hexachloroethane	48	U
98-95-3	Nitrobenzene	48	U
78-59-1	Isophorone	48	U
88-75-5	2-Nitrophenol	48	U
105-67-9	2,4-Dimethylphenol	250	B
111-91-1	Bis(2-chloroethoxy)methane	48	U
120-83-2	2,4-Dichlorophenol	48	U
91-20-3	Naphthalene	48	U
106-47-8	4-Chloroaniline	95	U
87-68-3	Hexachlorobutadiene	48	U
105-60-2	Caprolactam	95	U
59-50-7	4-Chloro-3-methylphenol	48	U
91-57-6	2-Methylnaphthalene	48	U
77-47-4	Hexachlorocyclo-pentadiene	95	U
88-06-2	2,4,6-Trichlorophenol	48	U
95-95-4	2,4,5-Trichlorophenol	48	U
92-52-4	1,1'-Biphenyl	48	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R30

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-009

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122220

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 10.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	48	U
88-74-4	2-Nitroaniline	48	U
131-11-3	Dimethylphthalate	48	U
606-20-2	2,6-Dinitrotoluene	48	U
208-96-8	Acenaphthylene	48	U
99-09-2	3-Nitroaniline	95	U
83-32-9	Acenaphthene	48	U
51-28-5	2,4-Dinitrophenol	95	U
100-02-7	4-Nitrophenol	95	U
132-64-9	Dibenzofuran	48	U
121-14-2	2,4-Dinitrotoluene	48	U
84-66-2	Diethylphthalate	48	U
95-94-3	1,2,4,5-Tetrachlorobenzene	48	U
7005-72-3	4-Chlorophenyl-phenyl ether	48	U
86-73-7	Fluorene	48	U
100-01-6	4-Nitroaniline	95	U
534-52-1	4,6-Dinitro-2-methylphenol	95	U
101-55-3	4-Bromophenyl-phenylether	48	U
86-30-6	N-Nitrosodiphenylamine	48	U
118-74-1	Hexachlorobenzene	48	U
1912-24-9	Atrazine	95	U
87-86-5	Pentachlorophenol	95	U
85-01-8	Phenanthrene	48	U
120-12-7	Anthracene	48	U
86-74-8	Carbazole	95	U
84-74-2	Di-n-butylphthalate	48	U
206-44-0	Fluoranthene	95	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R30

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-009

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122220

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 10.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	48	U
85-68-7	Butylbenzylphthalate	48	U
91-94-1	3,3'-Dichlorobenzidine	95	U
56-55-3	Benzo(a)anthracene	48	U
218-01-9	Chrysene	48	U
117-81-7	Bis(2-ethylhexyl)phthalate	48	U
117-84-0	Di-n-octylphthalate	95	U
205-99-2	Benzo(b)fluoranthene	48	U
207-08-9	Benzo(k)fluoranthene	48	U
50-32-8	Benzo(a)pyrene	48	U
193-39-5	Indeno(1,2,3-cd)pyrene	48	U
53-70-3	Dibenzo(a,h)anthracene	48	U
191-24-2	Benzo(g,h,i)perylene	48	U
58-90-2	2,3,4,6-Tetrachlorophenol	48	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R30

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-009
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 12122220
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 10 Dilution Factor: 10.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	576-26-1	Phenol, 2,6-dimethyl-	5.98	27	NJ
02	108-68-9	Phenol, 3,5-dimethyl-	6.27	79	NJ
03	88-69-7	Phenol, 2-(1-methylethyl)-	6.58	50	NJ
04	1515-95-3	Benzene, 1-ethyl-4-methoxy-	6.65	61	NJ
05	3855-26-3	Phenol, 2-ethyl-4-methyl-	6.74	23	NJ
06					
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30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122220.D		
Lab Sample ID:	QL16010-009	Client Sample ID:	F6R30
Injection Date:	22-Dec-2015 18:37:30	Dil. Factor:	10.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-009		
Misc. Info:	92747 10X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	17
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 09:52:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.117	5.123	-0.006	64894	1.9033	18.127	e
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	3565	0.28587	2.7225	eR
4 Phenol	94.0		5.134		ND			
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.187	5.192	-0.005	48420	2.1055	20.053	e
5 bis(2-Chloroethyl)Ether	93.0		5.230		ND			
$ 6 2-Chlorophenol-d4	132.0	5.294	5.299	-0.005	54609	2.4209	23.056	e
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	372232	20.000	190.48	
10 2-Methylphenol	108.0	5.609	5.614	-0.005	11398	0.45475	4.3310	e
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.700	5.710	-0.010	54829	2.2139	21.085	e
14 4-Methylphenol	108.0	5.721	5.732	-0.011	12417	0.45664	4.3490	e
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.913	-0.005	26634	1.9879	18.932	e
17 Nitrobenzene	77.0		5.930		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	765644	26.192	249.45	
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	34253	2.2324	21.261	Qe
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.368	-0.006	41780	1.8549	17.666	e
22 2,4-Dichlorophenol	162.0		6.373		ND			
* 23 Naphthalene-d8	136.0	6.512	6.517	-0.005	1549775	20.000	190.48	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.538	6.544	-0.006	17661	0.52015	4.9538	Qe
25 4-Chloroaniline	127.0		6.549		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.918		ND			
29 2-Methylnaphthalene	142.0		7.105		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.522		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.687	-0.011	115660	2.1100	20.095	e
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.863	7.869	-0.006	70095	0.96644	9.2042	e
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.992	7.997	-0.005	839215	20.000	190.48	
43 2,4-Dinitrophenol	184.0		8.018		ND			
42 Acenaphthene	153.0		8.024		ND			
$ 100 4-Nitrophenol-d4	143.0	8.029	8.034	-0.005	25046	1.8689	17.799	Qe
44 4-Nitrophenol	109.0		8.040		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.430	8.435	-0.005	36847	0.71645	6.8233	eR
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.456	8.472	-0.016	13185	1.0282	9.7924	Qe
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.943		ND			
57 Pentachlorophenol	266.0		9.087		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.268	-0.005	1408909	20.000	190.48	
59 Phenanthrene	178.0		9.290		ND			
$ 103 Anthracene-d10	188.0	9.311	9.316	-0.005	97751	1.3609	12.961	Qe
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.664		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.625	10.636	-0.011	45738	0.64459	6.1389	e

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
64 Pyrene	202.0		10.663		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.004		ND			
68 3,3'-Dichlorobenzidine	252.0		12.068		ND			
67 Benzo(a)anthracene	228.0		12.159		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1626223	20.000	190.48	
70 Chrysene	228.0		12.217		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.852		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.295	14.317	-0.022	56758	0.74331	7.0792	eR
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.450	14.461	-0.011	1575166	20.000	190.48	
77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit
Q - Qualifier Signal(s) Fails Ratio Test
R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122220.D		
Lab Sample ID:	QL16010-009	Client Sample ID:	F6R30
Injection Date:	22-Dec-2015 18:37:30	Dil. Factor:	10.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-009		
Misc. Info:	92747 10X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	17
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 09:52:30

Tentative Identified Compound Results

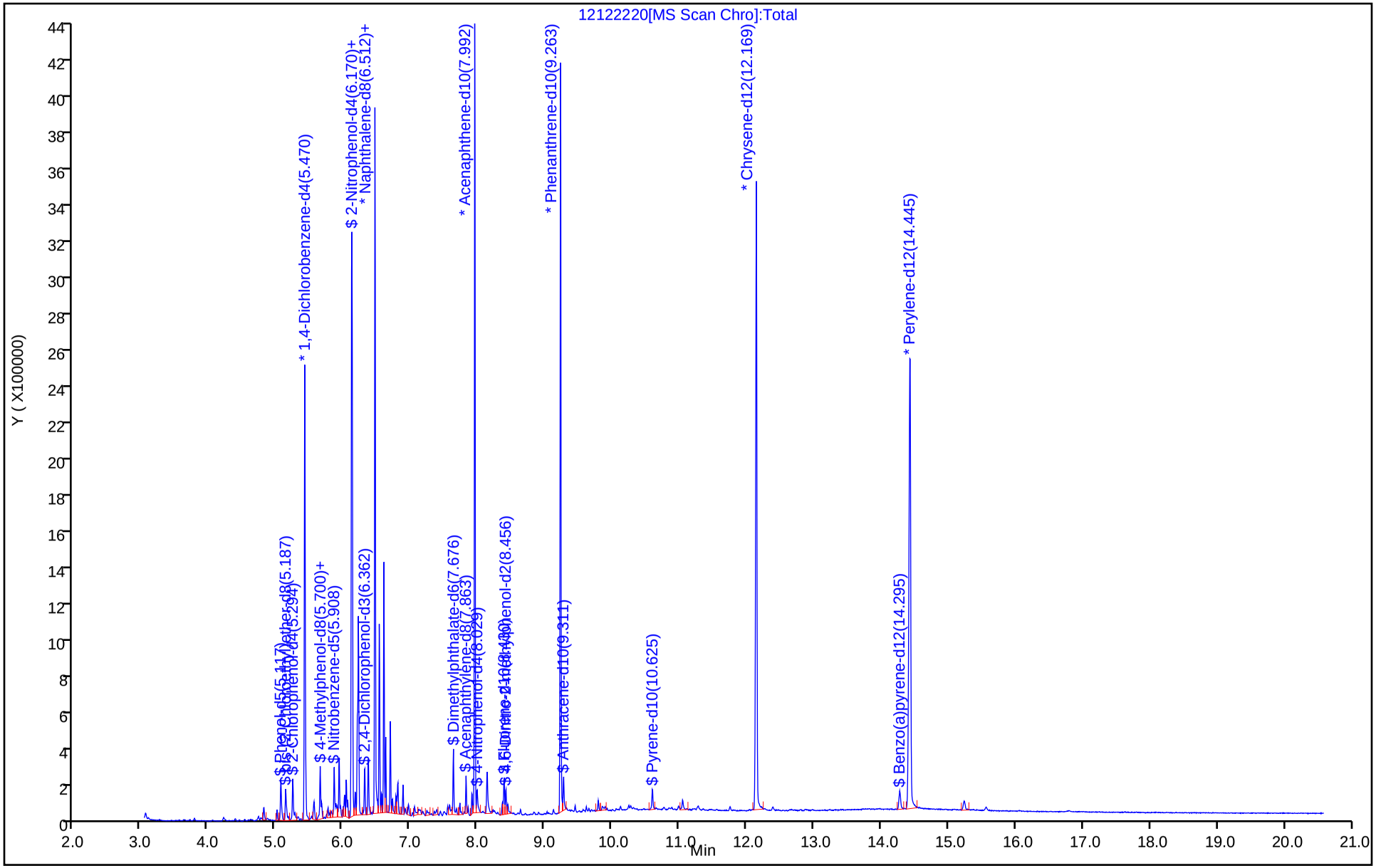
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
576-26-1 Phenol, 2,6-dimethyl-								
5.983	359338	2.8321	26.972	8	98	9926	C8H10O	122
108-68-9 Phenol, 3,5-dimethyl-								
6.266	1437031	8.3249	79.285	23	95	9933	C8H10O	122
88-69-7 Phenol, 2-(1-methylethyl)-								
6.576	913445	5.2917	50.397	23	91	16451	C9H12O	136
1515-95-3 Benzene, 1-ethyl-4-methoxy-								
6.645	1113476	6.4505	61.433	23	91	16470	C9H12O	136
3855-26-3 Phenol, 2-ethyl-4-methyl-								
6.741	425215	2.4633	23.460	23	90	16433	C9H12O	136

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.470	2537613	20.000
* 23 Naphthalene-d8	6.512	3452370	20.000

Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

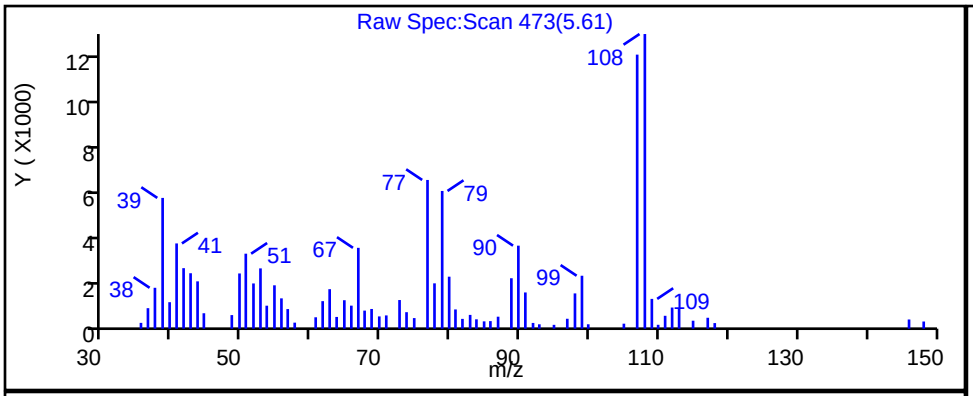
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122220.D				
Injection Date:	22-Dec-2015 18:37:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R30	Lab ID:	QL16010-009		
Sample Info:	12122215.b, QL16010-009				
Injection Vol.	1.00 1	Dil. Factor:	10.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

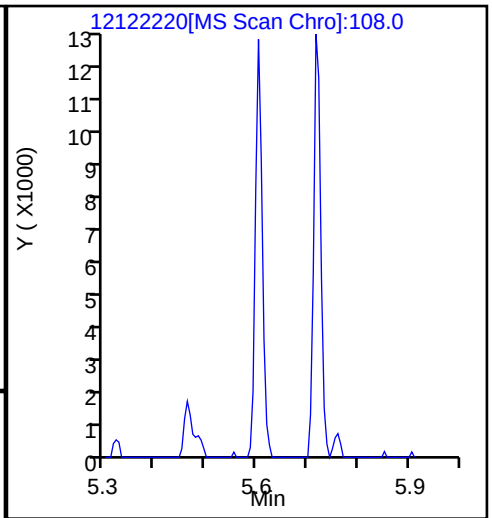


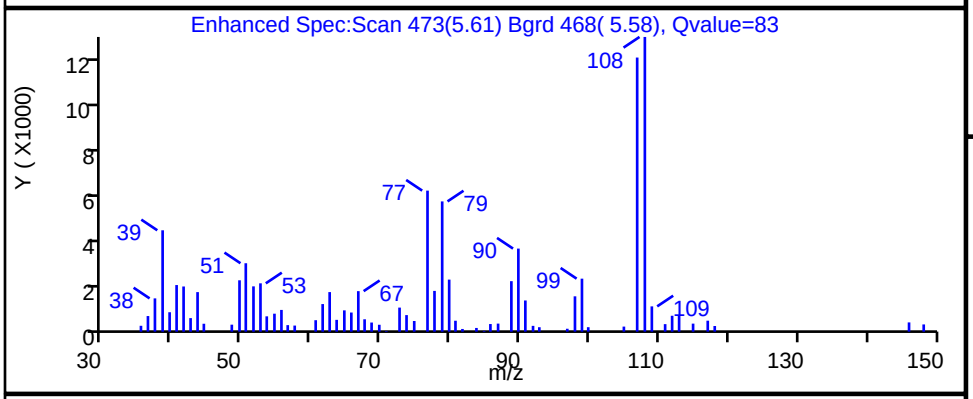
Shealy Environmental Services

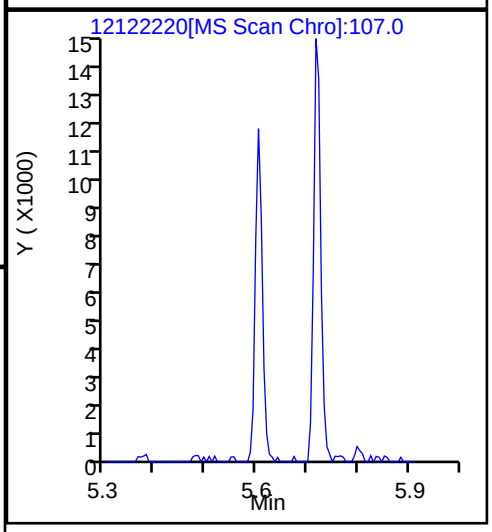
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122220.D		
Injection Date:	22-Dec-2015 18:37:30	Inst. ID:	msd12.i
Client ID:	F6R30	Lab ID:	QL16010-009
Sample Info:	12122215.b, QL16010-009		
Injection Vol.	1.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

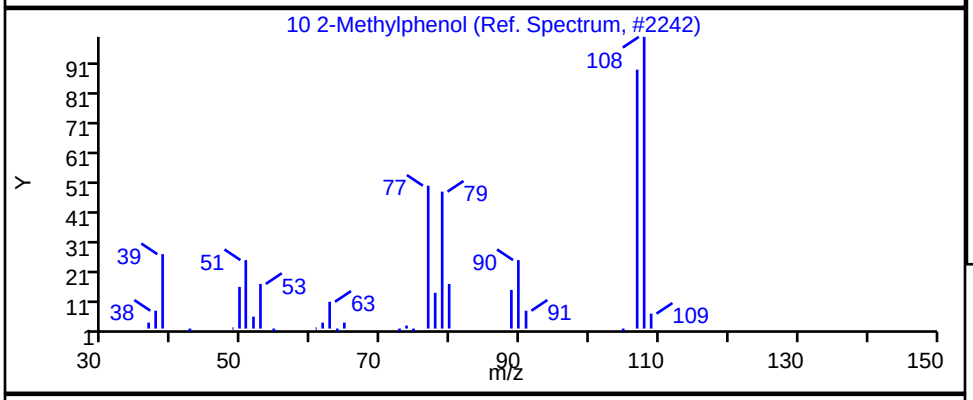
10 2-Methylphenol

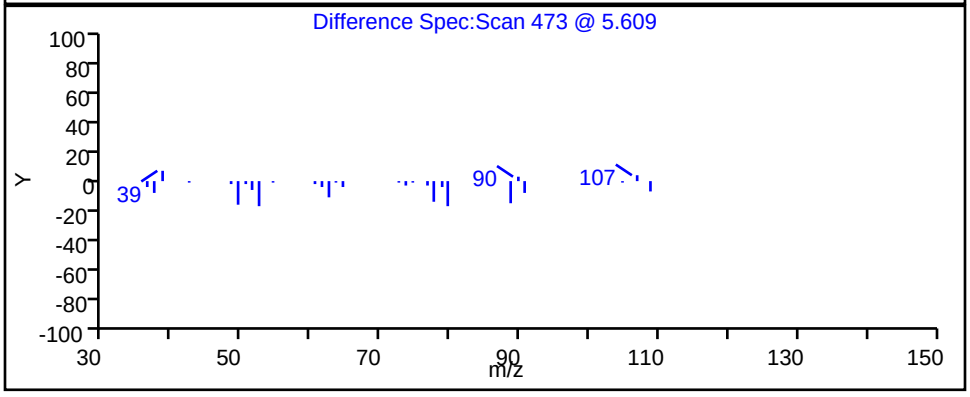










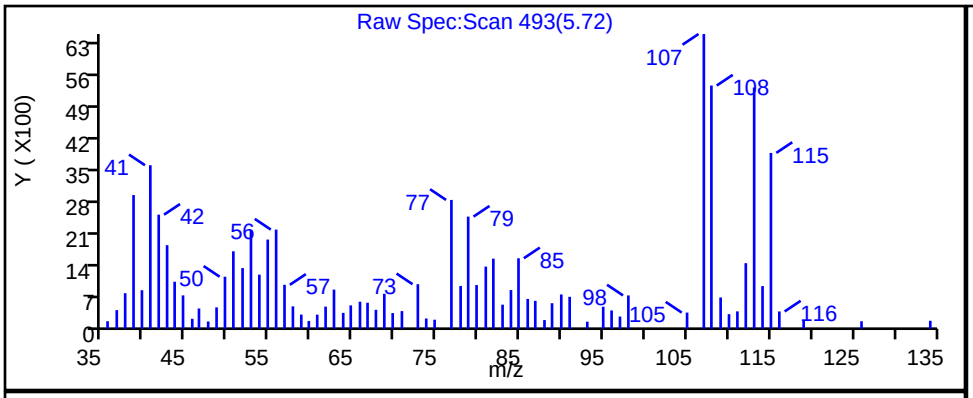


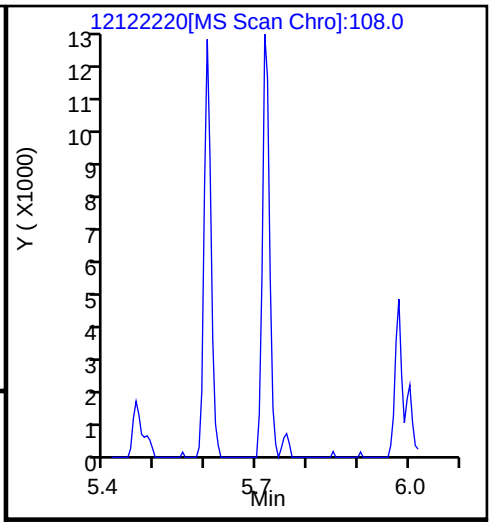
Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

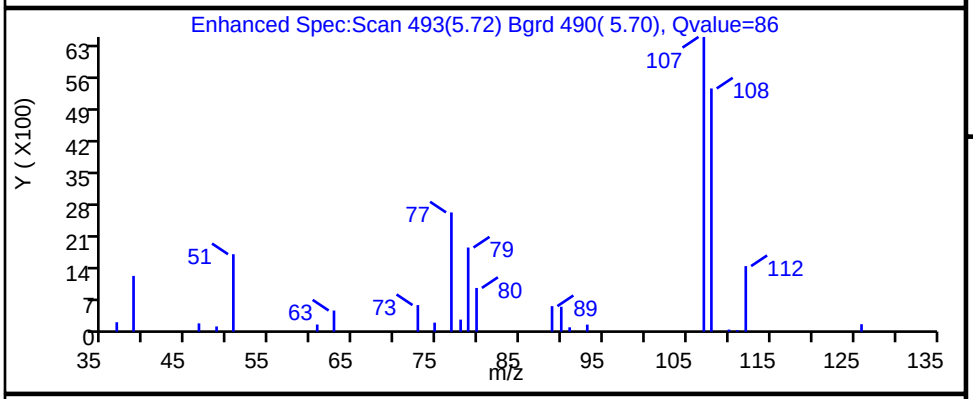
Shealy Environmental Services

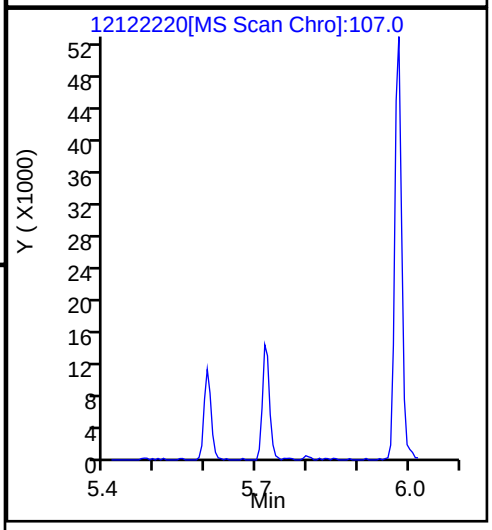
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122220.D		
Injection Date:	22-Dec-2015 18:37:30	Inst. ID:	msd12.i
Client ID:	F6R30	Lab ID:	QL16010-009
Sample Info:	12122215.b, QL16010-009		
Injection Vol.	1.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

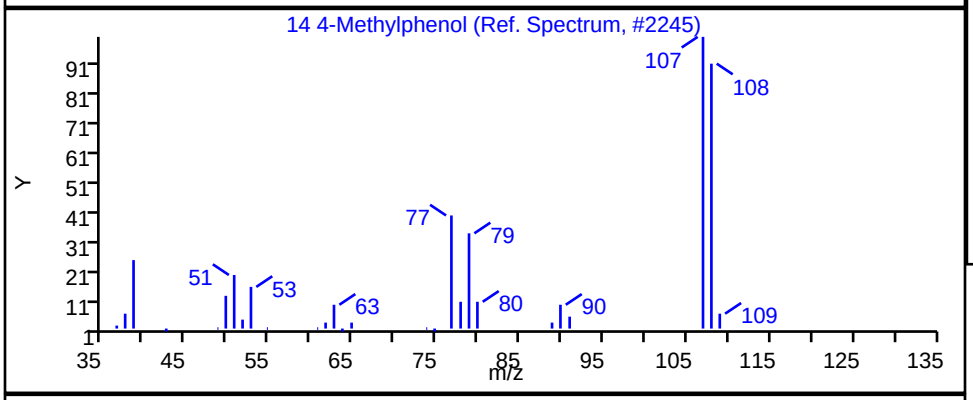
14 4-Methylphenol

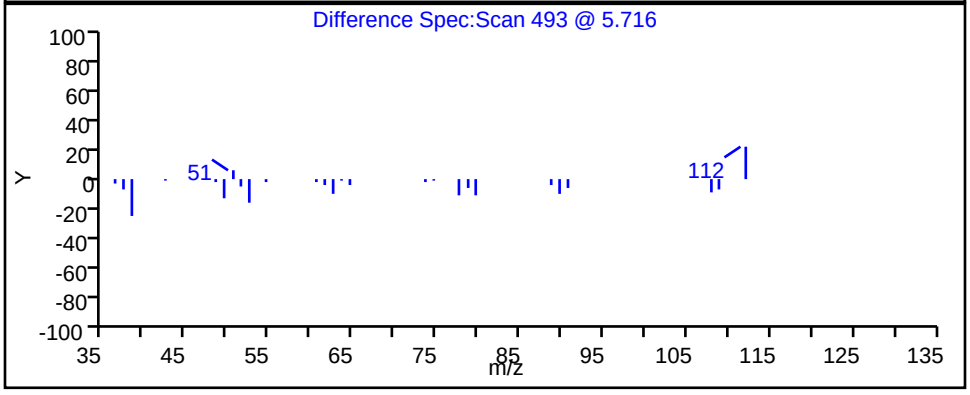










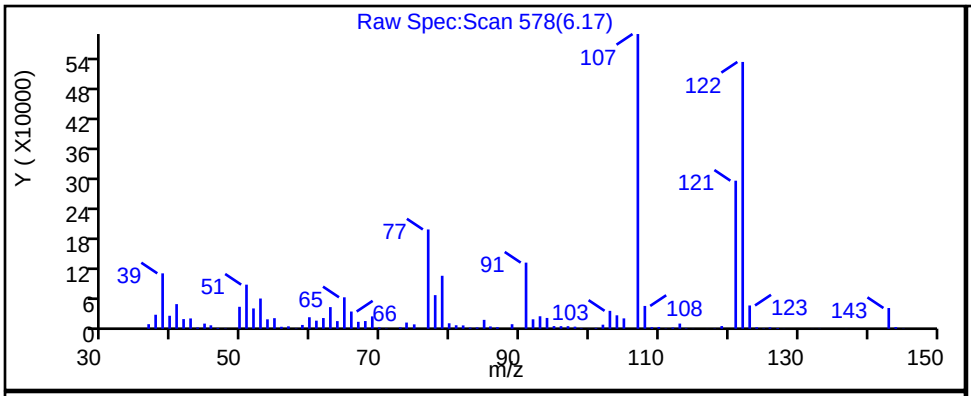


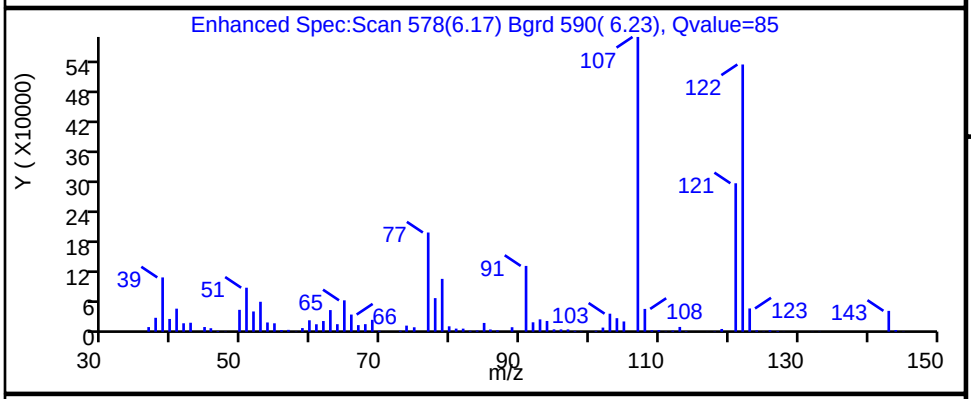
Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

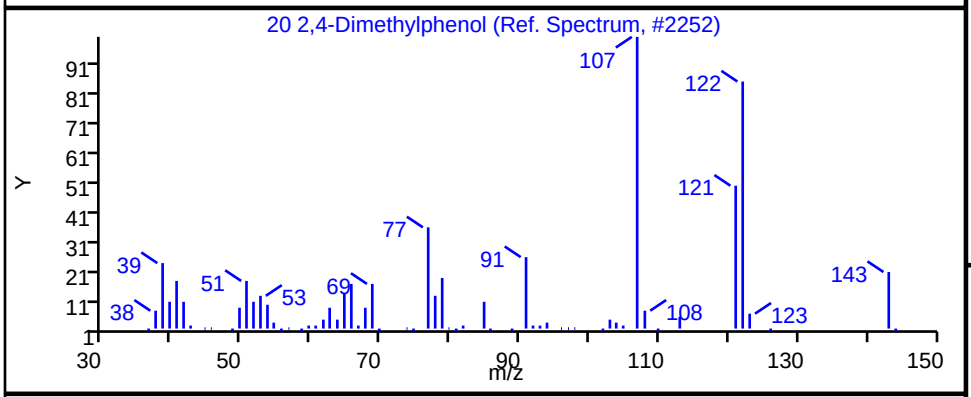
Shealy Environmental Services

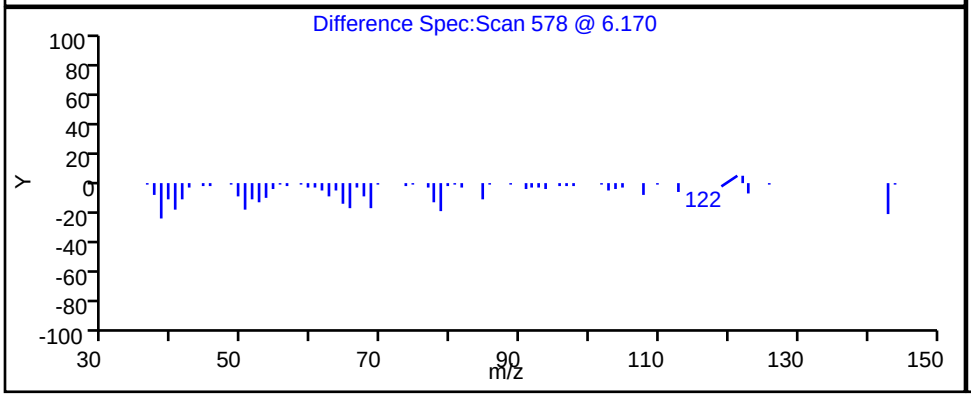
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122220.D		
Injection Date:	22-Dec-2015 18:37:30	Inst. ID:	msd12.i
Client ID:	F6R30	Lab ID:	QL16010-009
Sample Info:	12122215.b, QL16010-009		
Injection Vol.	1.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

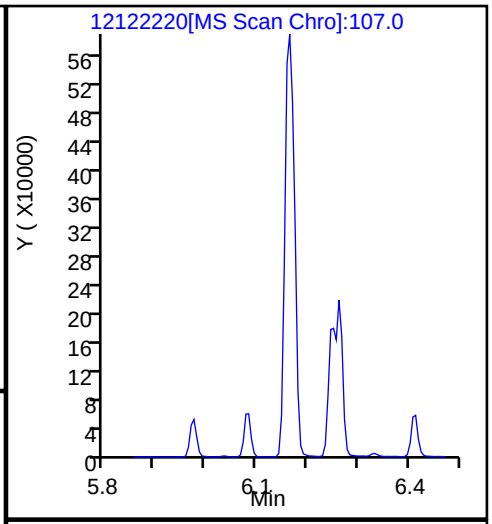
20 2,4-Dimethylphenol

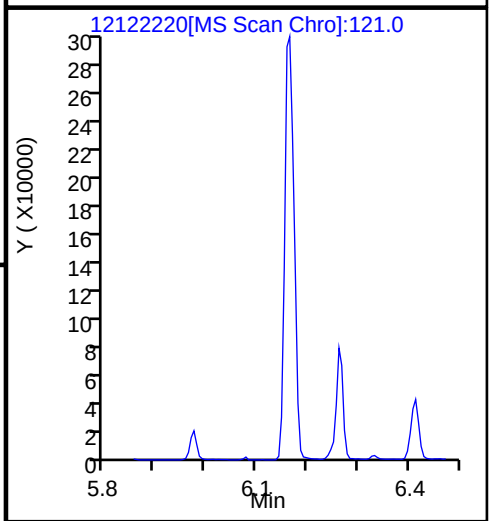


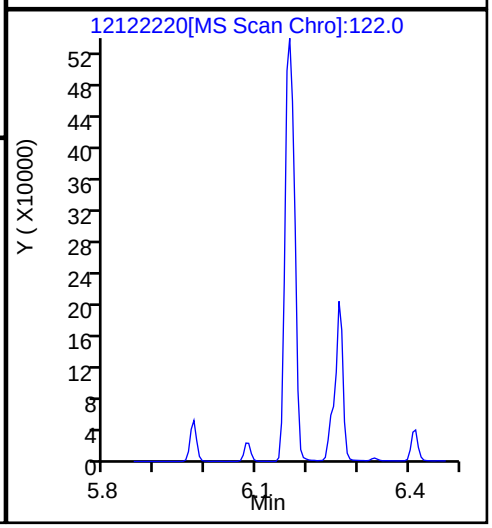












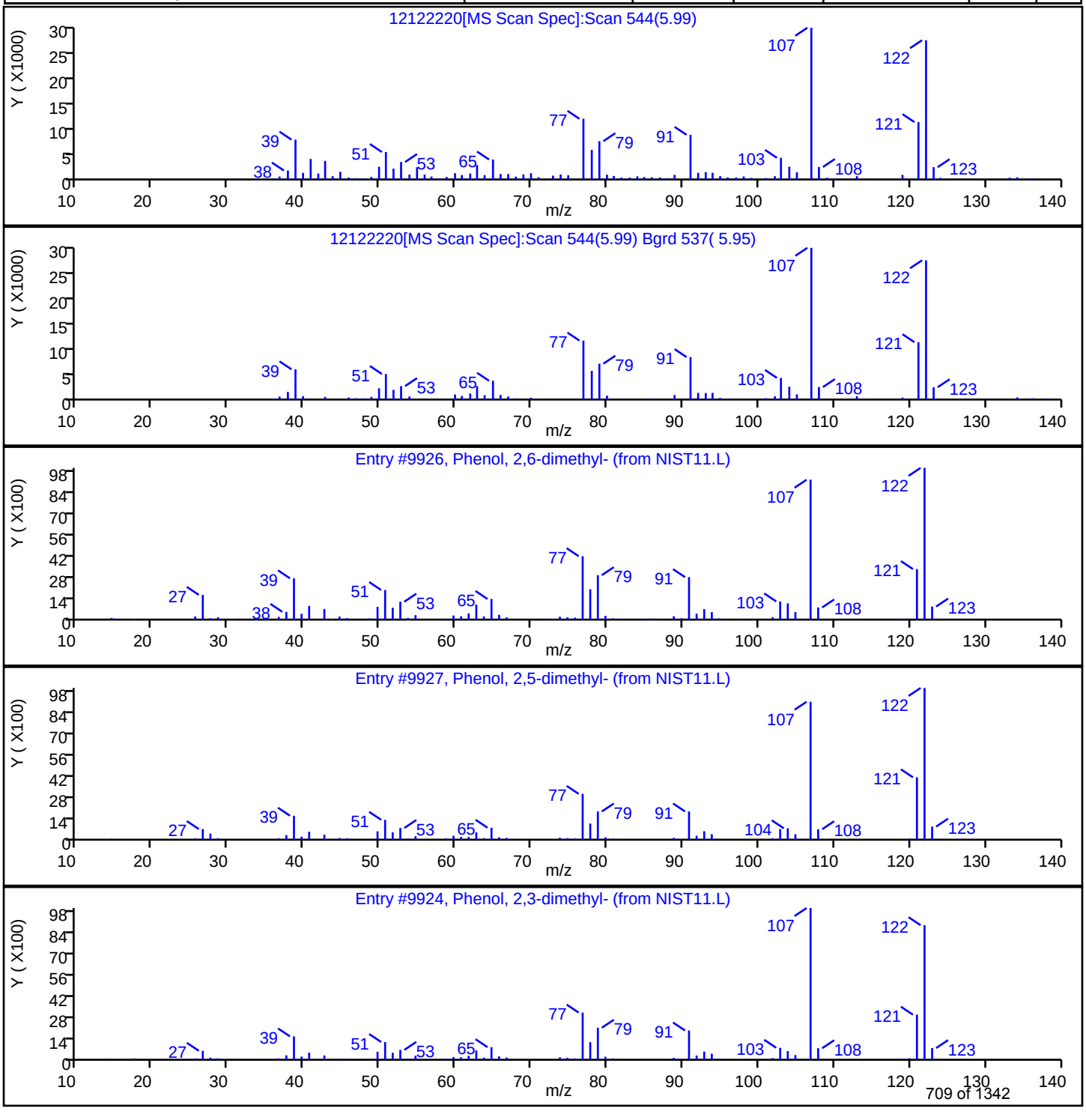
Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122220.D		
Injection Date:	22-Dec-2015 18:37:30	Inst. ID:	msd12.i
Client ID:	F6R30	Lab ID:	QL16010-009
Sample Info:	12122215.b, QL16010-009		
Injection Vol.	1.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.983

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,6-dimethyl-	576-26-1	NIST11	9926	C8H10O	122	98
Phenol, 2,5-dimethyl-	95-87-4	NIST11	9927	C8H10O	122	96
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9924	C8H10O	122	95



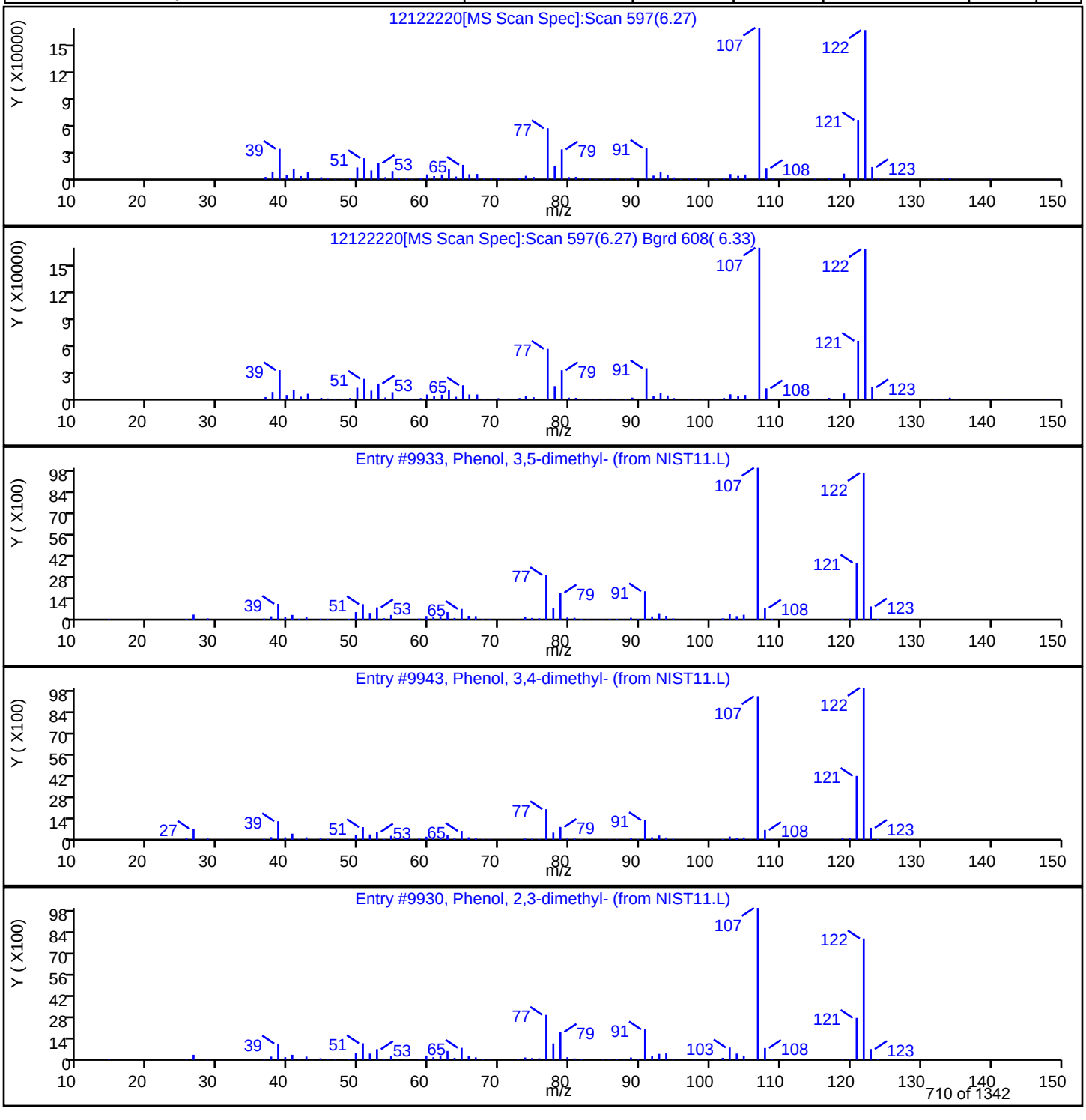
Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122220.D		
Injection Date:	22-Dec-2015 18:37:30	Inst. ID:	msd12.i
Client ID:	F6R30	Lab ID:	QL16010-009
Sample Info:	12122215.b, QL16010-009		
Injection Vol.	1.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.266

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,5-dimethyl-	108-68-9	NIST11	9933	C8H10O	122	95
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9943	C8H10O	122	95
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9930	C8H10O	122	94



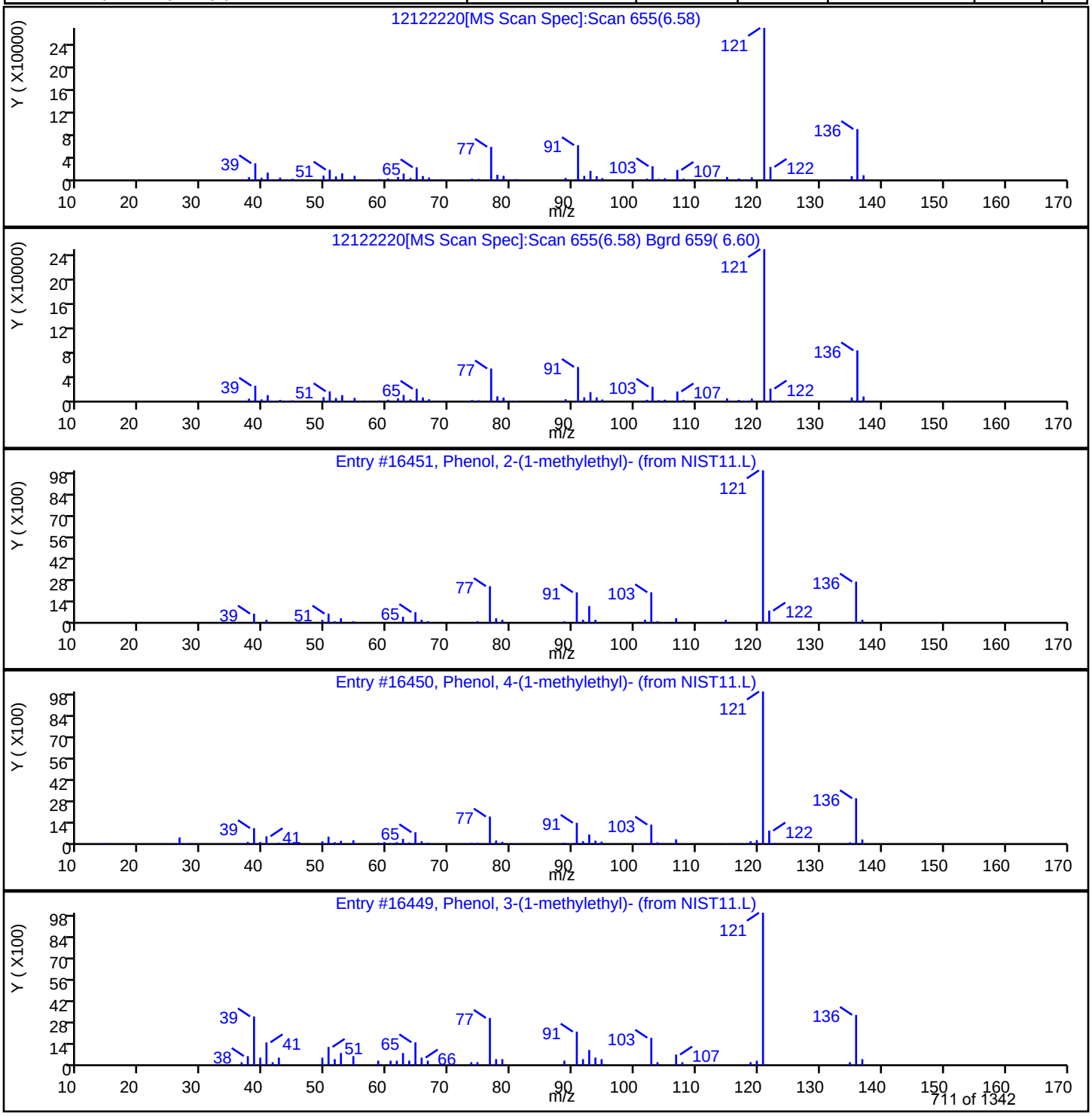
Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122220.D		
Injection Date:	22-Dec-2015 18:37:30	Inst. ID:	msd12.i
Client ID:	F6R30	Lab ID:	QL16010-009
Sample Info:	12122215.b, QL16010-009		
Injection Vol.	1.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.576

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-(1-methylethyl)-	88-69-7	NIST11	16451	C9H12O	136	91
Phenol, 4-(1-methylethyl)-	99-89-8	NIST11	16450	C9H12O	136	90
Phenol, 3-(1-methylethyl)-	618-45-1	NIST11	16449	C9H12O	136	87



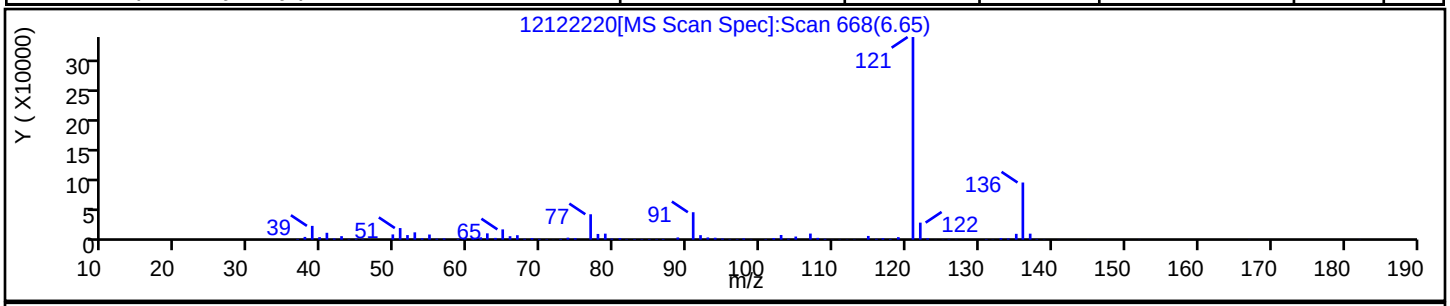
Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

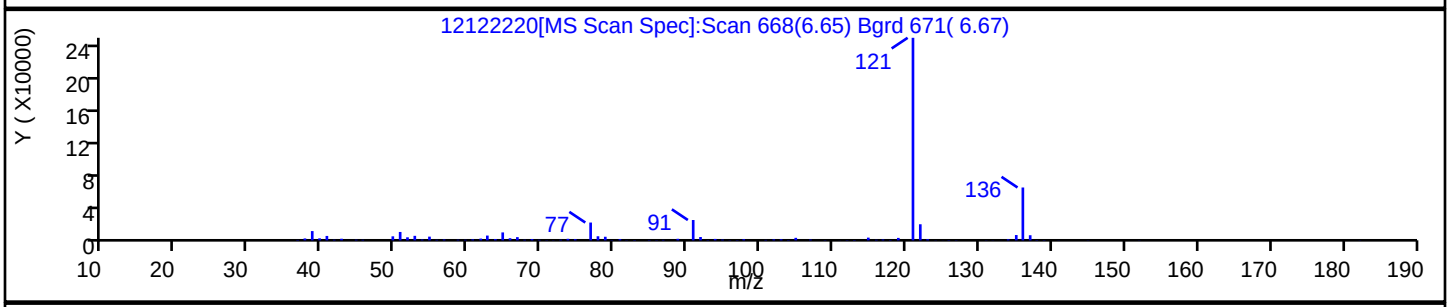
Shealy Environmental Services

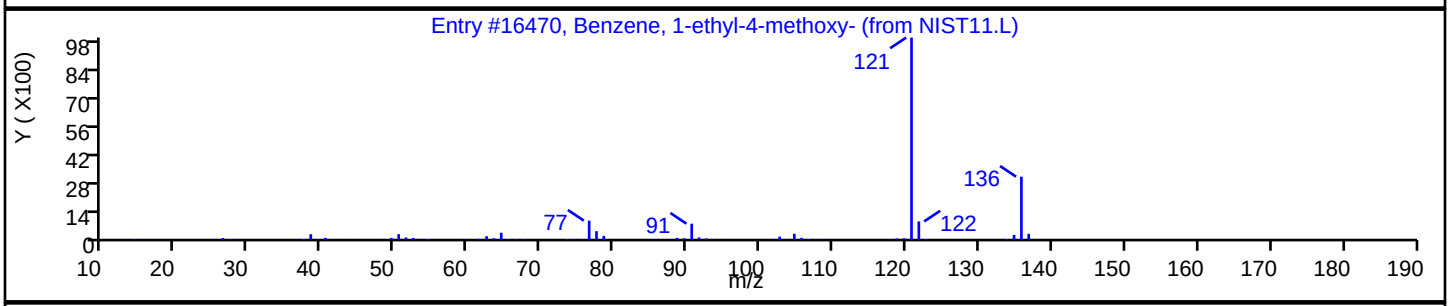
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122220.D		
Injection Date:	22-Dec-2015 18:37:30	Inst. ID:	msd12.i
Client ID:	F6R30	Lab ID:	QL16010-009
Sample Info:	12122215.b, QL16010-009		
Injection Vol.	1.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

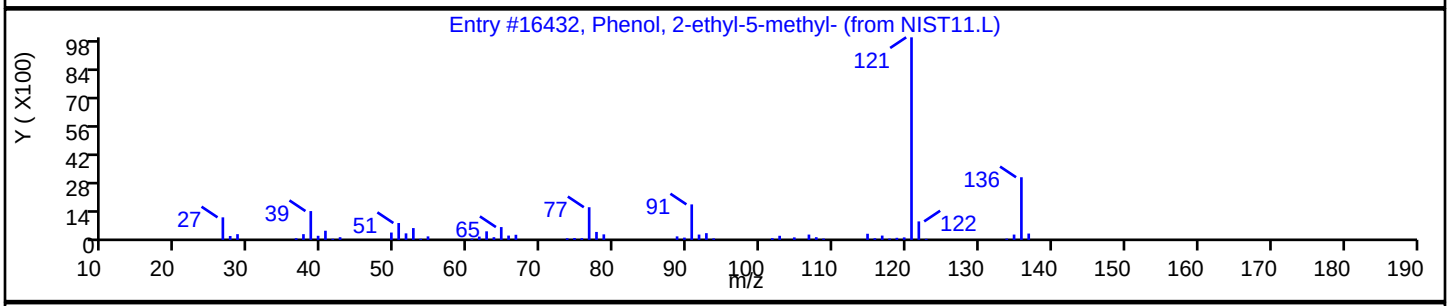
TIC @ 6.645

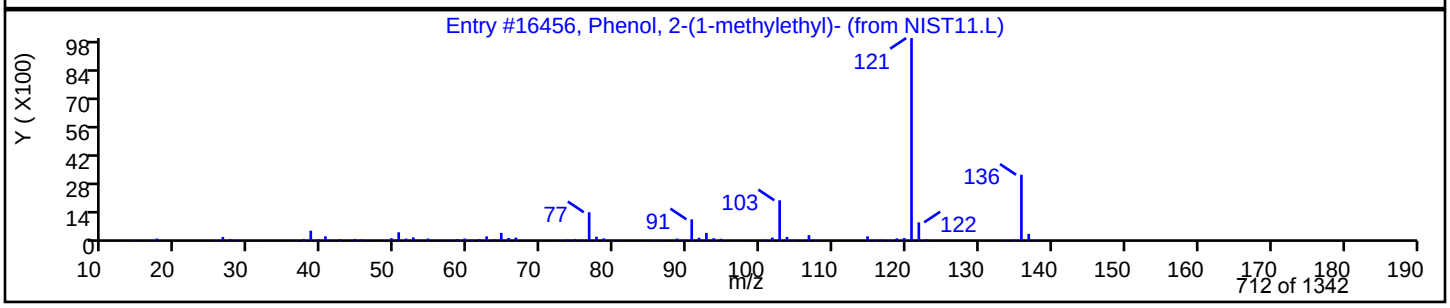
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-4-methoxy-	1515-95-3	NIST11	16470	C9H12O	136	91
Phenol, 2-ethyl-5-methyl-	1687-61-2	NIST11	16432	C9H12O	136	91
Phenol, 2-(1-methylethyl)-	88-69-7	NIST11	16456	C9H12O	136	91











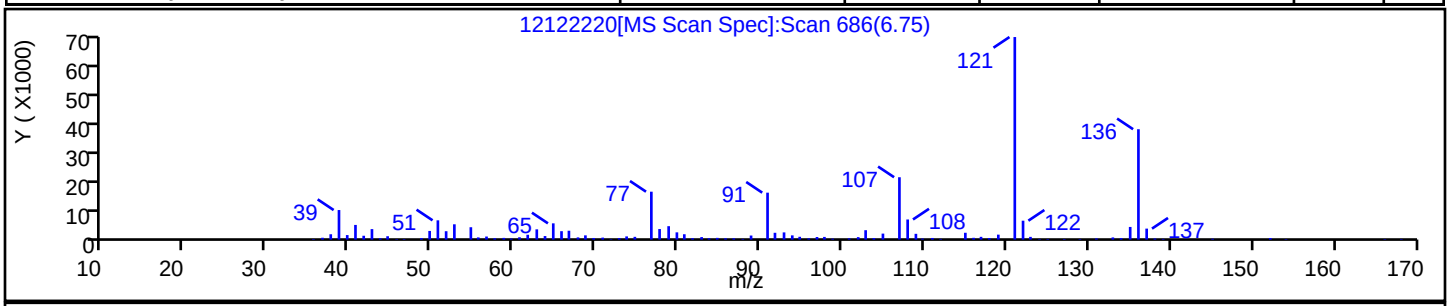
Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

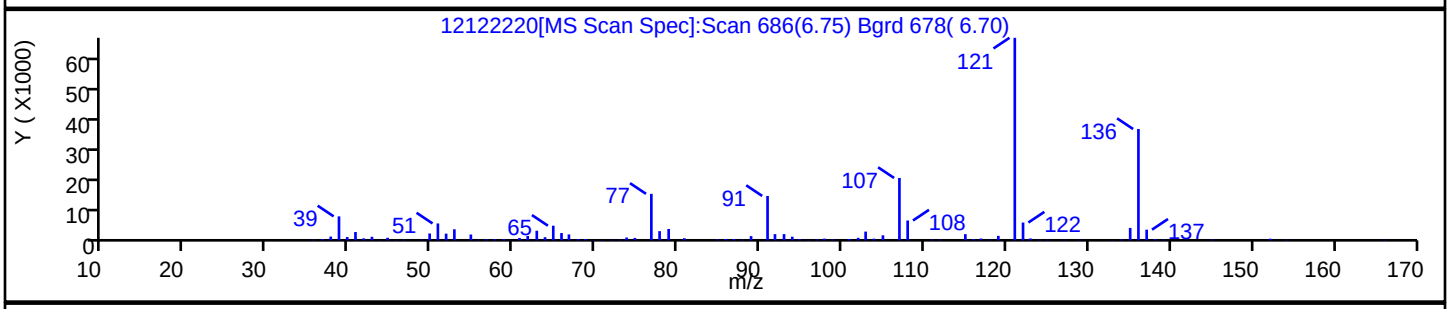
Shealy Environmental Services

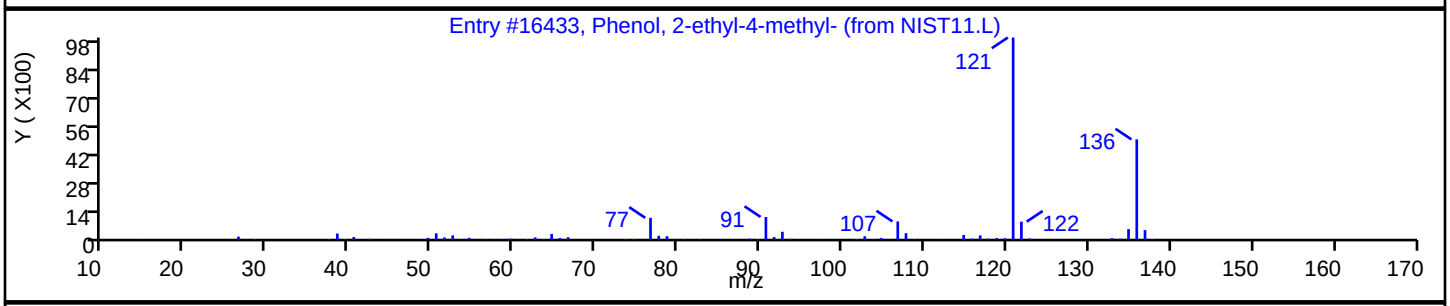
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122220.D		
Injection Date:	22-Dec-2015 18:37:30	Inst. ID:	msd12.i
Client ID:	F6R30	Lab ID:	QL16010-009
Sample Info:	12122215.b, QL16010-009		
Injection Vol.	1.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

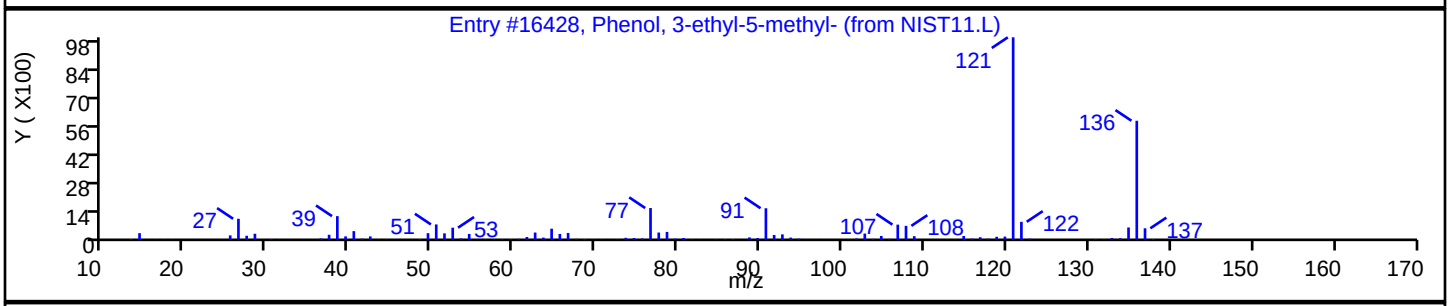
TIC @ 6.741

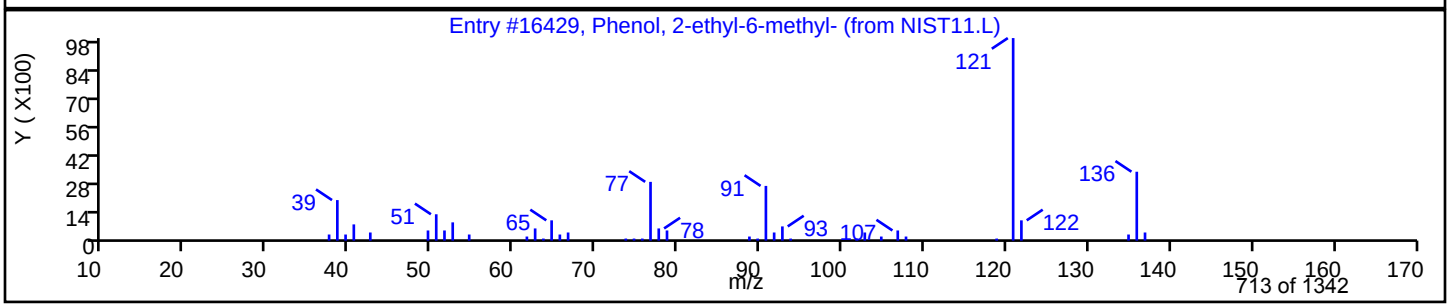
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-4-methyl-	3855-26-3	NIST11	16433	C9H12O	136	90
Phenol, 3-ethyl-5-methyl-	698-71-5	NIST11	16428	C9H12O	136	87
Phenol, 2-ethyl-6-methyl-	1687-64-5	NIST11	16429	C9H12O	136	87











FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R30RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-009

Sample wt/vol: 550 (g/mL) mL Lab File ID: 12123110

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 10.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	36	U
100-52-7	Benzaldehyde	180	U
108-95-2	Phenol	180	U
111-44-4	Bis(2-Chloroethyl) ether	180	U
95-57-8	2-Chlorophenol	91	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-Oxybis(1-chloropropane)	180	U
98-86-2	Acetophenone	180	U
106-44-5	4-Methylphenol	180	U
621-64-7	N-Nitroso-di-n propylamine	91	U
67-72-1	Hexachloroethane	91	U
98-95-3	Nitrobenzene	91	U
78-59-1	Isophorone	91	U
88-75-5	2-Nitrophenol	91	U
105-67-9	2,4-Dimethylphenol	95	
111-91-1	Bis(2-chloroethoxy)methane	91	U
120-83-2	2,4-Dichlorophenol	91	U
91-20-3	Naphthalene	91	U
106-47-8	4-Chloroaniline	180	U
87-68-3	Hexachlorobutadiene	91	U
105-60-2	Caprolactam	180	U
59-50-7	4-Chloro-3-methylphenol	91	U
91-57-6	2-Methylnaphthalene	91	U
77-47-4	Hexachlorocyclo-pentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	91	U
95-95-4	2,4,5-Trichlorophenol	91	U
92-52-4	1,1'-Biphenyl	91	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R30RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-009

Sample wt/vol: 550 (g/mL) mL Lab File ID: 12123110

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 10.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	91	U
88-74-4	2-Nitroaniline	91	U
131-11-3	Dimethylphthalate	91	U
606-20-2	2,6-Dinitrotoluene	91	U
208-96-8	Acenaphthylene	91	U
99-09-2	3-Nitroaniline	180	U
83-32-9	Acenaphthene	91	U
51-28-5	2,4-Dinitrophenol	180	U
100-02-7	4-Nitrophenol	180	U
132-64-9	Dibenzofuran	91	U
121-14-2	2,4-Dinitrotoluene	91	U
84-66-2	Diethylphthalate	91	U
95-94-3	1,2,4,5-Tetrachlorobenzene	91	U
7005-72-3	4-Chlorophenyl-phenyl ether	91	U
86-73-7	Fluorene	91	U
100-01-6	4-Nitroaniline	180	U
534-52-1	4,6-Dinitro-2-methylphenol	180	U
101-55-3	4-Bromophenyl-phenylether	91	U
86-30-6	N-Nitrosodiphenylamine	91	U
118-74-1	Hexachlorobenzene	91	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	180	U
85-01-8	Phenanthrene	91	U
120-12-7	Anthracene	91	U
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	91	U
206-44-0	Fluoranthene	180	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R30RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-009

Sample wt/vol: 550 (g/mL) mL Lab File ID: 12123110

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 10.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	91	U
85-68-7	Butylbenzylphthalate	91	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	91	U
218-01-9	Chrysene	91	U
117-81-7	Bis(2-ethylhexyl)phthalate	91	U
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	91	U
207-08-9	Benzo(k)fluoranthene	91	U
50-32-8	Benzo(a)pyrene	91	U
193-39-5	Indeno(1,2,3-cd)pyrene	91	U
53-70-3	Dibenzo(a,h)anthracene	91	U
191-24-2	Benzo(g,h,i)perylene	91	U
58-90-2	2,3,4,6-Tetrachlorophenol	91	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R30RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-009
Sample wt/vol: 550 (g/mL) mL
Lab File ID: 12123110
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/23/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/31/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 10 Dilution Factor: 10.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	108-68-9	Phenol, 3,5-dimethyl-	6.27	42	NJ
02	1123-94-0	Phenol, 4-ethyl-3-methyl-	6.65	42	NJ
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123110.D		
Lab Sample ID:	QL16010-009	Client Sample ID:	F6R30RX
Injection Date:	31-Dec-2015 12:44:30	Dil. Factor:	10.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QL16010-009		
Misc. Info:	92944 10X		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	7
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	550.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	31-Dec-2015 13:08:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.128	5.133	-0.005	67869	1.9305	35.101	e
108 1,4-Dioxane	88.0		3.322		ND			
$ 109 1,4-Dioxane-d8	96.0	3.296	3.301	-0.005	3768	0.29303	5.3278	eR
4 Phenol	94.0		5.144		ND			
2 Benzaldehyde	77.0		5.138		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.182	5.192	-0.010	49675	2.0949	38.090	e
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.294	5.299	-0.005	58852	2.5303	46.005	e
7 2-Chlorophenol	128.0		5.309		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.465	5.470	-0.005	383809	20.000	363.64	
10 2-Methylphenol	108.0		5.619		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.641		ND			
$ 94 4-Methylphenol-d8	113.0	5.710	5.721	-0.011	52832	2.0689	37.616	e
14 4-Methylphenol	108.0		5.742		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.763		ND			
12 Acetophenone	105.0		5.779		ND			
15 Hexachloroethane	117.0		5.886		ND			
$ 16 Nitrobenzene-d5	128.0	5.903	5.913	-0.010	29255	2.1752	39.548	e
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0	6.175	6.175	0.000	153713	5.2383	95.242	
$ 95 2-Nitrophenol-d4	143.0	6.165	6.175	-0.010	31610	2.0523	37.315	Qe
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.244		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.368	6.372	-0.004	40637	1.7973	32.678	e
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.506	6.511	-0.005	1555717	20.000	363.64	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.539	6.543	-0.005	27460	0.80566	14.648	Qe
25 4-Chloroaniline	127.0		6.533		ND			
26 Hexachlorobutadiene	225.0		6.602		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.933		ND			
29 2-Methylnaphthalene	142.0		7.099		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.323		ND			
32 2,4,5-Trichlorophenol	196.0		7.371		ND			
34 1,1'-Biphenyl	154.0		7.478		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.596		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.681	-0.005	120274	2.3226	42.230	e
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.777		ND			
$ 99 Acenaphthylene-d8	160.0	7.863	7.868	-0.005	143146	2.0892	37.986	e
38 Acenaphthylene	152.0		7.884		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.992	7.997	-0.005	792791	20.000	363.64	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.023		ND			
$ 100 4-Nitrophenol-d4	143.0	8.072	8.055	0.017	15026	1.1868	21.579	Qe
44 4-Nitrophenol	109.0		8.061		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.167		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.258		ND			
47 Diethylphthalate	149.0		8.285		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.424	8.435	-0.011	77905	1.6035	29.154	e
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.461		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.462	8.472	-0.010	14088	1.2868	23.397	Qe
51 4,6-Dinitro-2-methylphenol	198.0		8.483		ND			
52 N-Nitrosodiphenylamine	169.0		8.520		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.931		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.268	-0.005	1202828	20.000	363.64	
59 Phenanthrene	178.0		9.289		ND			
$ 103 Anthracene-d10	188.0	9.311	9.316	-0.005	175910	2.8686	52.156	Qe
60 Anthracene	178.0		9.337		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.663		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.625	10.636	-0.011	89719	1.4513	26.387	e

	Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
	64 Pyrene	202.0		10.657		ND			
	66 Butylbenzylphthalate	149.0		11.271		ND			
	71 bis(2-Ethylhexyl)phthalate	149.0		11.998		ND			
	68 3,3'-Dichlorobenzidine	252.0		12.067		ND			
	67 Benzo(a)anthracene	228.0		12.158		ND			
*	69 Chrysene-d12	240.0	12.164	12.179	-0.015	1416812	20.000	363.64	
	70 Chrysene	228.0		12.217		ND			
	72 Di-n-octylphthalate	149.0		12.981		ND			
	73 Benzo(b)fluoranthene	252.0		13.809		ND			
	74 Benzo(k)fluoranthene	252.0		13.857		ND			
$	105 Benzo(a)pyrene-d12	264.0	14.295	14.316	-0.021	56280	0.91056	16.556	e
	75 Benzo(a)pyrene	252.0		14.370		ND			
*	76 Perylene-d12	264.0	14.445	14.461	-0.016	1275014	20.000	363.64	
	77 Indeno(1,2,3-cd)pyrene	276.0		16.624		ND			
	78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
	79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123110.D		
Lab Sample ID:	QL16010-009	Client Sample ID:	F6R30RX
Injection Date:	31-Dec-2015 12:44:30	Dil. Factor:	10.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QL16010-009		
Misc. Info:	92944 10X		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	7
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	550.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	31-Dec-2015 13:08:30

Tentative Identified Compound Results

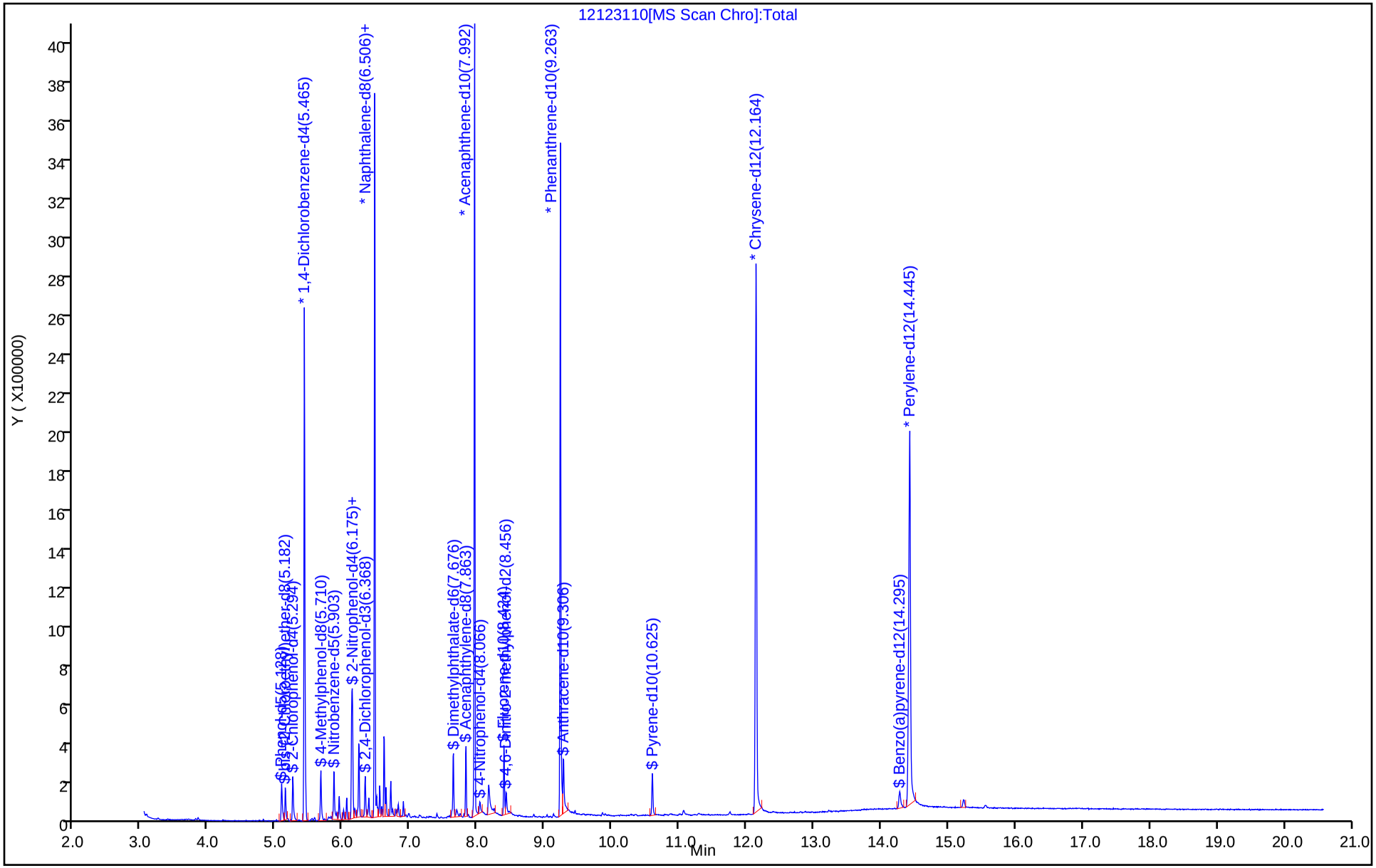
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
108-68-9 Phenol, 3,5-dimethyl-								
6.271	395490	2.3233	42.242	23	95	9940	C8H10O	122
1123-94-0 Phenol, 4-ethyl-3-methyl-								
6.645	389505	2.2881	41.603	23	94	16430	C9H12O	136

Quant. Compounds	RT	Response	Amount ng/ul
* 23 Naphthalene-d8	6.506	3404551	20.000

Report Date: 04-Jan-2016 10:27:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123110.D				
Injection Date:	31-Dec-2015 12:44:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R30RX	Lab ID:	QL16010-009		
Sample Info:	12123115.b, QL16010-009				
Injection Vol.	1.00 1	Dil. Factor:	10.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

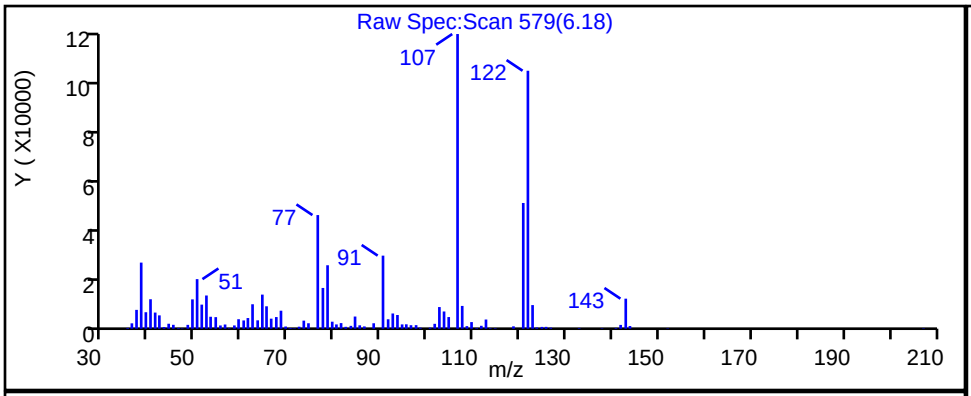


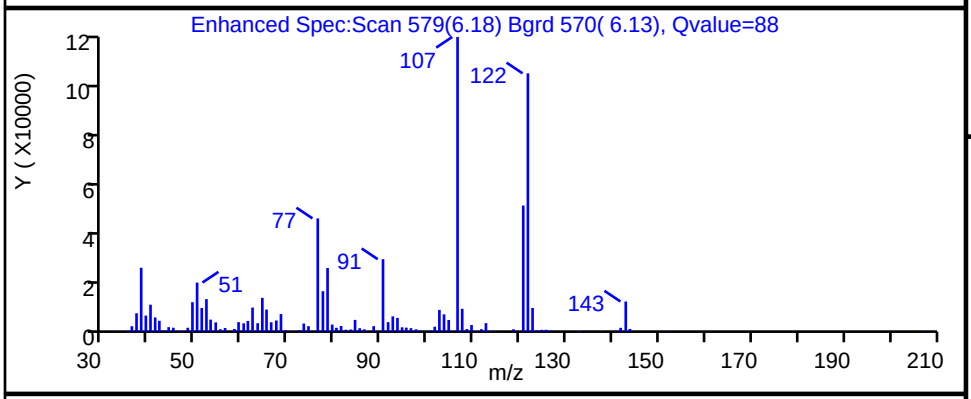
Report Date: 04-Jan-2016 10:27:36 AIM Revision: 1.0 26-May-2015 13:41:26

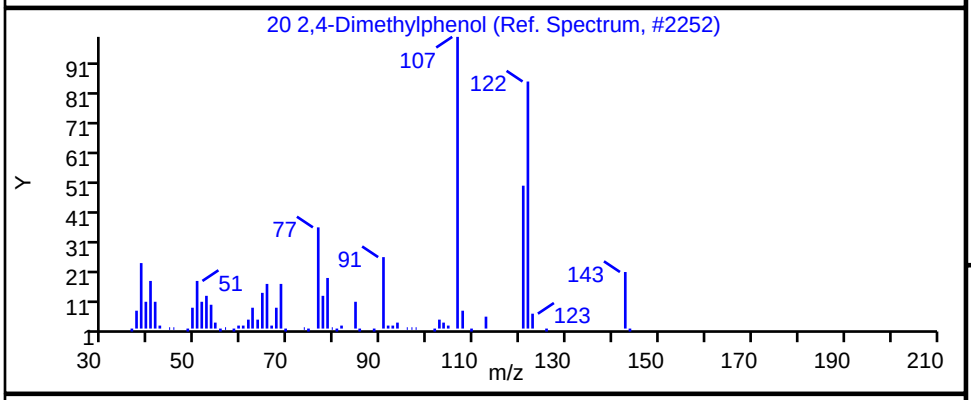
Shealy Environmental Services

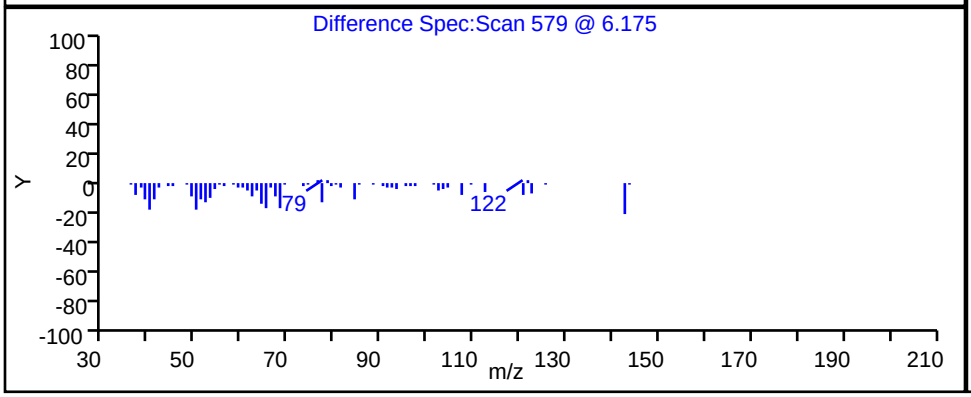
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123110.D		
Injection Date:	31-Dec-2015 12:44:30	Inst. ID:	msd12.i
Client ID:	F6R30RX	Lab ID:	QL16010-009
Sample Info:	12123115.b, QL16010-009		
Injection Vol.	1.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

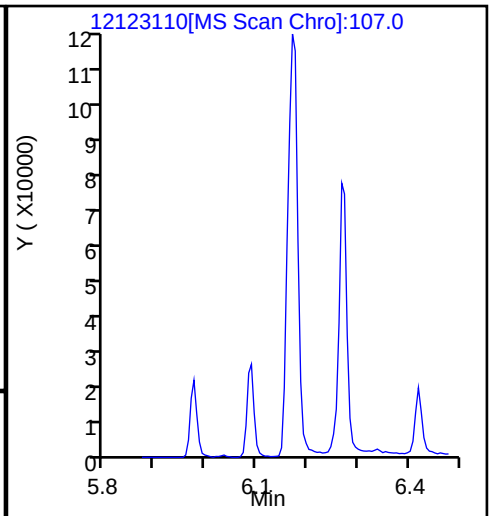
20 2,4-Dimethylphenol

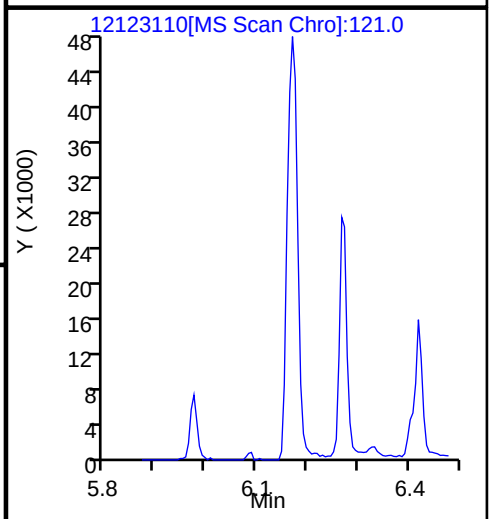


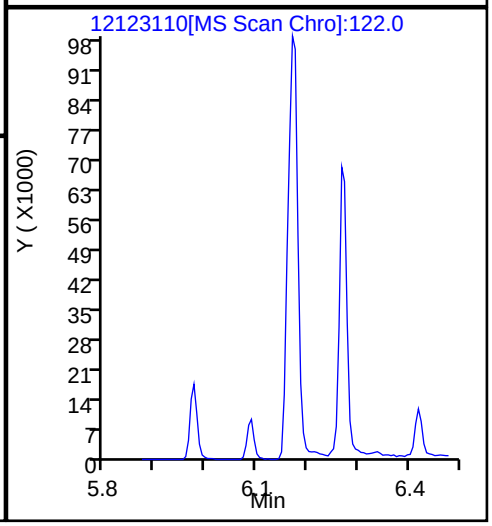












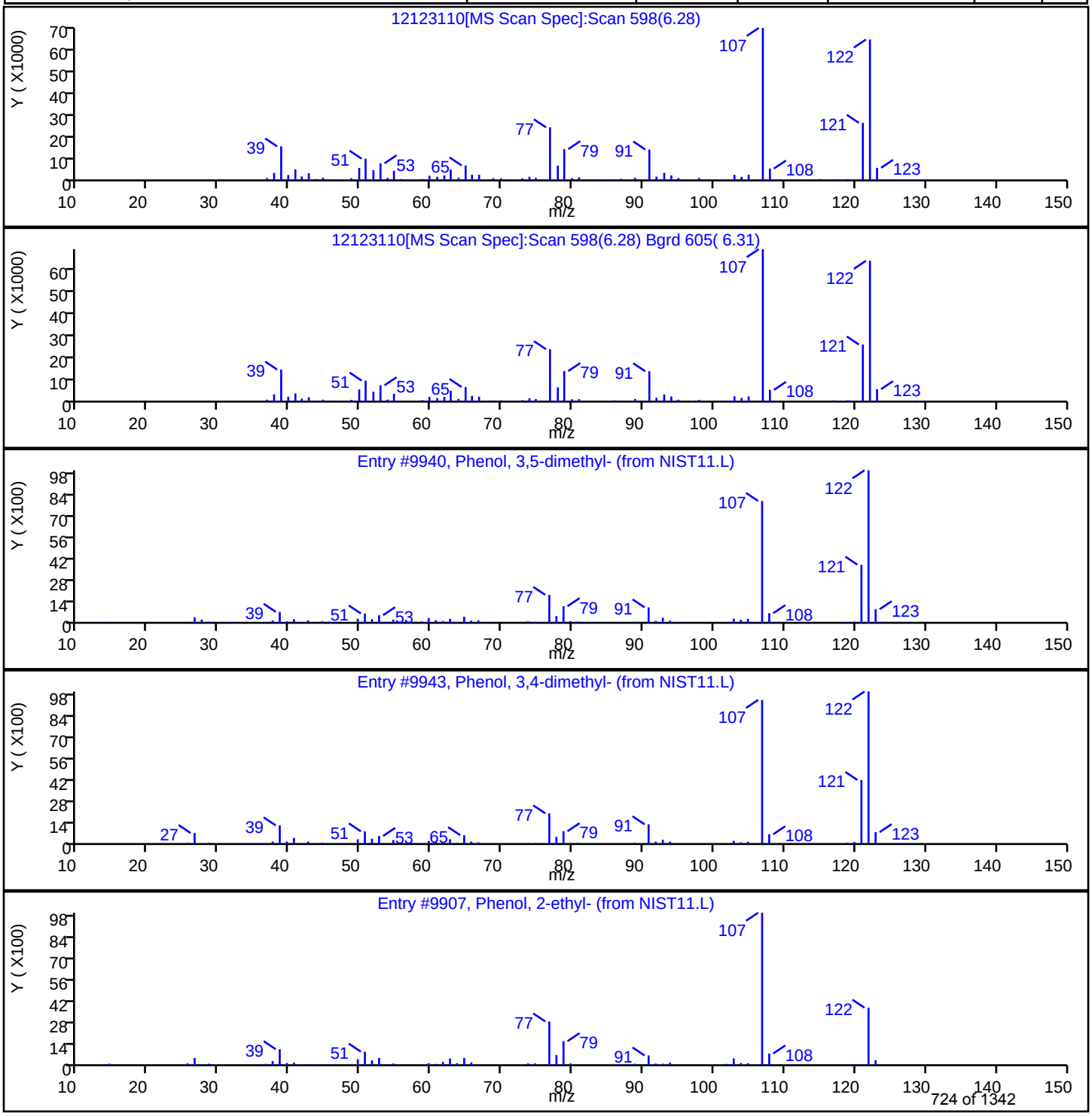
Report Date: 04-Jan-2016 10:27:36 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123110.D		
Injection Date:	31-Dec-2015 12:44:30	Inst. ID:	msd12.i
Client ID:	F6R30RX	Lab ID:	QL16010-009
Sample Info:	12123115.b, QL16010-009		
Injection Vol.	1.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.271

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,5-dimethyl-	108-68-9	NIST11	9940	C8H10O	122	95
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9943	C8H10O	122	95
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	94



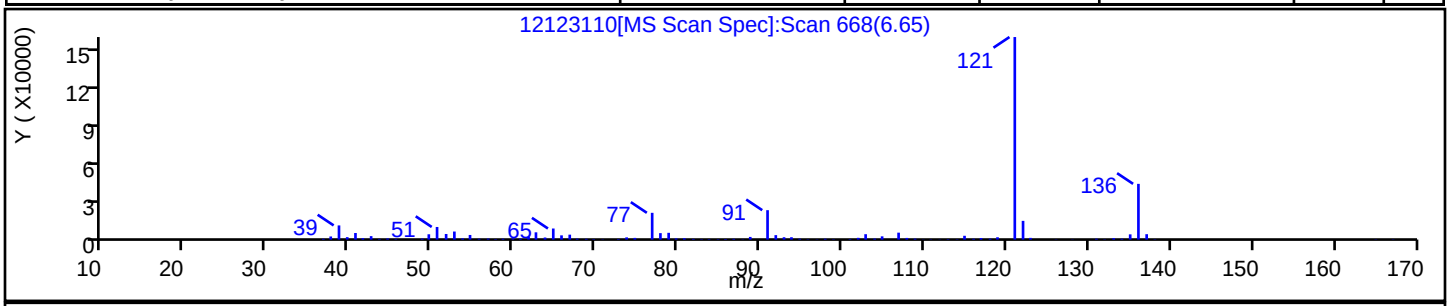
Report Date: 04-Jan-2016 10:27:36 AIM Revision: 1.0 26-May-2015 13:41:26

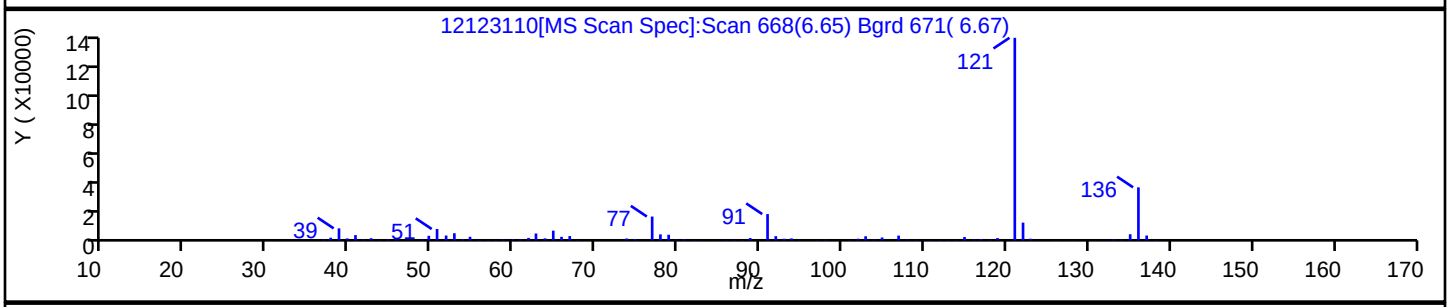
Shealy Environmental Services

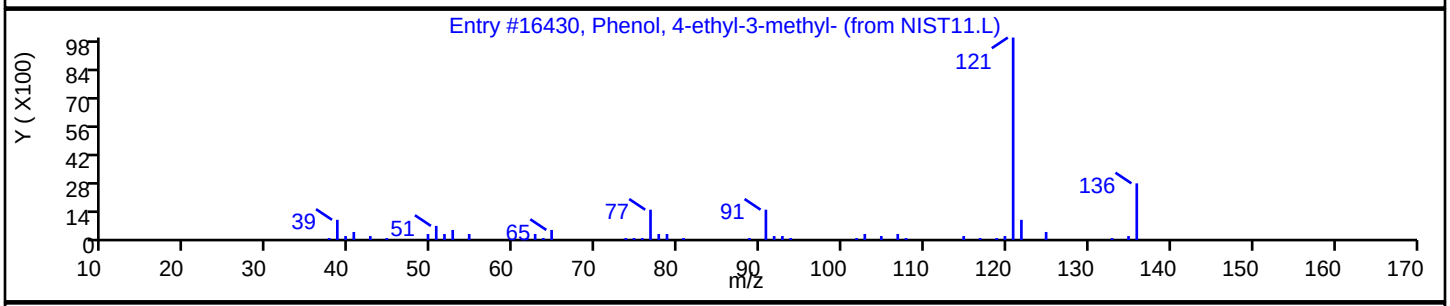
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123110.D		
Injection Date:	31-Dec-2015 12:44:30	Inst. ID:	msd12.i
Client ID:	F6R30RX	Lab ID:	QL16010-009
Sample Info:	12123115.b, QL16010-009		
Injection Vol.	1.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

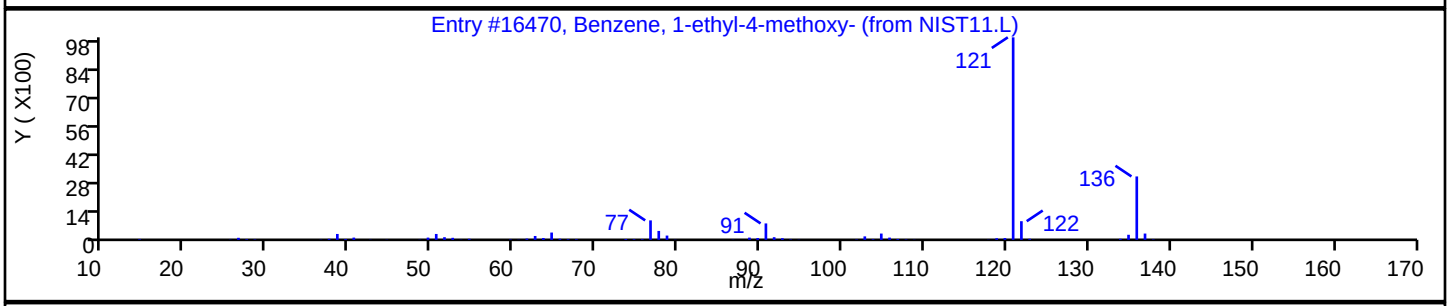
TIC @ 6.645

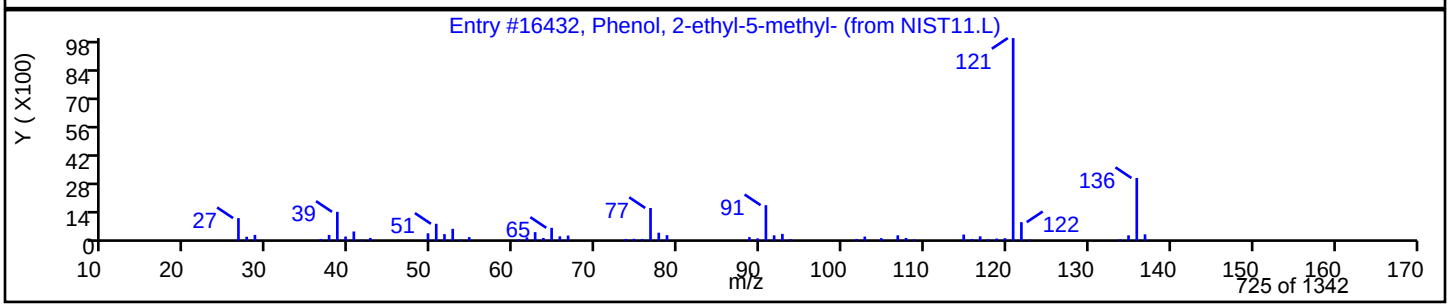
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4-ethyl-3-methyl-	1123-94-0	NIST11	16430	C9H12O	136	94
Benzene, 1-ethyl-4-methoxy-	1515-95-3	NIST11	16470	C9H12O	136	91
Phenol, 2-ethyl-5-methyl-	1687-61-2	NIST11	16432	C9H12O	136	91











FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 800 (g/mL) mL Lab File ID: 12122223

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 15000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	750	U
100-52-7	Benzaldehyde	3800	U
108-95-2	Phenol	280000	E B
111-44-4	Bis(2-Chloroethyl) ether	3800	U
95-57-8	2-Chlorophenol	1900	U
95-48-7	2-Methylphenol	130000	E B
108-60-1	2,2'-Oxybis(1-chloropropane)	3800	U
98-86-2	Acetophenone	3800	U
106-44-5	4-Methylphenol	26000	B
621-64-7	N-Nitroso-di-n propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	420000	E B
111-91-1	Bis(2-chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	3800	U
87-68-3	Hexachlorobutadiene	1900	U
105-60-2	Caprolactam	3800	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclo-pentadiene	3800	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	1900	U
92-52-4	1,1'-Biphenyl	1900	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 800 (g/mL) mL Lab File ID: 12122223

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 15000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U
208-96-8	Acenaphthylene	1900	U
99-09-2	3-Nitroaniline	3800	U
83-32-9	Acenaphthene	1900	U
51-28-5	2,4-Dinitrophenol	3800	U
100-02-7	4-Nitrophenol	3800	U
132-64-9	Dibenzofuran	1900	U
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethylphthalate	1900	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1900	U
7005-72-3	4-Chlorophenyl-phenyl ether	1900	U
86-73-7	Fluorene	1900	U
100-01-6	4-Nitroaniline	3800	U
534-52-1	4,6-Dinitro-2-methylphenol	3800	U
101-55-3	4-Bromophenyl-phenylether	1900	U
86-30-6	N-Nitrosodiphenylamine	1900	U
118-74-1	Hexachlorobenzene	1900	U
1912-24-9	Atrazine	3800	U
87-86-5	Pentachlorophenol	3800	U
85-01-8	Phenanthrene	1900	U
120-12-7	Anthracene	1900	U
86-74-8	Carbazole	3800	U
84-74-2	Di-n-butylphthalate	1900	U
206-44-0	Fluoranthene	3800	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 800 (g/mL) mL Lab File ID: 12122223

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 15000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	1900	U
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	3800	U
56-55-3	Benzo(a)anthracene	1900	U
218-01-9	Chrysene	1900	U
117-81-7	Bis(2-ethylhexyl)phthalate	1900	U
117-84-0	Di-n-octylphthalate	3800	U
205-99-2	Benzo(b)fluoranthene	1900	U
207-08-9	Benzo(k)fluoranthene	1900	U
50-32-8	Benzo(a)pyrene	1900	U
193-39-5	Indeno(1,2,3-cd)pyrene	1900	U
53-70-3	Dibenzo(a,h)anthracene	1900	U
191-24-2	Benzo(g,h,i)perylene	1900	U
58-90-2	2,3,4,6-Tetrachlorophenol	1900	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R32

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-002
Sample wt/vol: 800 (g/mL) mL
Lab File ID: 12122223
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 15000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 10 Dilution Factor: 20.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	79-31-2	Propanoic acid, 2-methyl-	3.68	20000	NJ
02		Unknown-01	3.94	27000	J
03		Unknown-02	4.02	6400	J
04		Unknown-03	5.68	120000	J
05		Unknown-04	5.71	120000	J
06		Unknown-05	5.74	120000	J
07		Unknown-06	5.76	330000	J
08		Unknown-07	5.82	200000	J
09	95-87-4	Phenol, 2,5-dimethyl-	6.02	310000	NJ
10		Unknown-08	6.15	150000	J
11		Unknown-09	6.32	71000	J
12		Unknown-10	6.34	150000	J
13		Unknown-11	6.42	72000	J
14	526-75-0	Phenol, 2,3-dimethyl-	6.45	95000	NJ
15	527-54-8	Phenol, 3,4,5-trimethyl-	6.72	140000	NJ
16		Unknown-12	6.78	6400	J
17		Unknown-13	6.82	96000	J
18	527-60-6	Phenol, 2,4,6-trimethyl-	6.90	57000	NJ
19	698-71-5	Phenol, 3-ethyl-5-methyl-	6.92	44000	NJ
20		Unknown-14	6.99	15000	J
21		Unknown-15	7.06	9300	J
22		Unknown-16	7.13	7700	J
23		Unknown-17	7.16	5000	J
24	334-48-5	n-Decanoic acid	7.27	8100	NJ
25		Unknown-18	7.31	1700	J
26		Unknown-19	7.35	3100	J
27	586-30-1	3-Hydroxy-4-methylbenzoic	8.23	4000	NJ
28	1000343-25-4	4-Hydroxy-3,5-	8.44	1800	NJ
29		Unknown-20	11.02	2100	J
30		Unknown-21	11.08	1700	J
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Lab Sample ID:	QL16010-002	Client Sample ID:	F6R32
Injection Date:	22-Dec-2015 20:02:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-002		
Misc. Info:	92747 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	20
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	15000	Volume of final extract (uL)
Vo	800.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 08:54:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0		5.123		ND			
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0	3.605	3.317	0.288	3223	0.26331	98.740	eR
4 Phenol	94.0	5.144	5.134	0.010	27219872	748.62	280733	QEM
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.213	5.192	0.021	26255	1.1632	436.19	QeR
5 bis(2-Chloroethyl)Ether	93.0		5.230		ND			
$ 6 2-Chlorophenol-d4	132.0		5.299		ND			
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.470	0.005	365355	20.000	7500.00	
10 2-Methylphenol	108.0	5.625	5.614	0.011	8604142	349.75	131155	QE
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.934	5.710	0.224	107947	4.4407	1665.27	QeR
14 4-Methylphenol	108.0	5.876	5.732	0.144	1862351	69.778	26167	Q
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.929	5.913	0.016	24388	1.9459	729.70	QeR
17 Nitrobenzene	77.0		5.930		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0	6.186	6.170	0.016	30666662	1121.48	420556	QE
$ 95 2-Nitrophenol-d4	143.0		6.175		ND			
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0		6.368		ND			
22 2,4-Dichlorophenol	162.0		6.373		ND			
* 23 Naphthalene-d8	136.0	6.549	6.517	0.032	1449719	20.000	7500.00	Q
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.672	6.544	0.128	30529	0.96119	360.45	QeR
25 4-Chloroaniline	127.0		6.549		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.918		ND			
29 2-Methylnaphthalene	142.0		7.105		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.522		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0		7.687		ND			
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	8.007	7.869	0.138	407264	4.6712	1751.72	QeR
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	8.007	7.997	0.010	1008801	20.000	7500.00	
43 2,4-Dinitrophenol	184.0		8.018		ND			
42 Acenaphthene	153.0		8.024		ND			
$ 100 4-Nitrophenol-d4	143.0		8.034		ND			
44 4-Nitrophenol	109.0		8.040		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0		8.435		ND			
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0		8.472		ND			
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.943		ND			
57 Pentachlorophenol	266.0		9.087		ND			
* 58 Phenanthrene-d10	188.0	9.268	9.268	0.000	1681092	20.000	7500.00	
59 Phenanthrene	178.0		9.290		ND			
$ 103 Anthracene-d10	188.0	9.268	9.316	-0.048	1681048	19.614	7355.36	R
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.664		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0		10.636		ND			

	Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
	64 Pyrene	202.0		10.663		ND			
	66 Butylbenzylphthalate	149.0		11.277		ND			
	71 bis(2-Ethylhexyl)phthalate	149.0		12.004		ND			
	68 3,3'-Dichlorobenzidine	252.0		12.068		ND			
	67 Benzo(a)anthracene	228.0		12.159		ND			
*	69 Chrysene-d12	240.0	12.169	12.180	-0.011	1855506	20.000	7500.00	
	70 Chrysene	228.0		12.217		ND			
	72 Di-n-octylphthalate	149.0		12.992		ND			
	73 Benzo(b)fluoranthene	252.0		13.809		ND			
	74 Benzo(k)fluoranthene	252.0		13.852		ND			
$	105 Benzo(a)pyrene-d12	264.0	14.450	14.317	0.133	1794417	20.627	7735.27	QR
	75 Benzo(a)pyrene	252.0		14.370		ND			
*	76 Perylene-d12	264.0	14.450	14.461	-0.011	1794525	20.000	7500.00	
	77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
	78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
	79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

E - Compound Concentration Exceeds Max. Calibration Range

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Lab Sample ID:	QL16010-002	Client Sample ID:	F6R32
Injection Date:	22-Dec-2015 20:02:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-002		
Misc. Info:	92747 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	20
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	15000	Volume of final extract (uL)
Vo	800.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 08:54:30

Tentative Identified Compound Results

RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
79-31-2 Propanoic acid, 2-methyl-								
3.680	3930070	52.947	19855	8	91	2060	C4H8O2	88
Unknown								
3.936	5435732	73.232	27462	8				
Unknown								
4.017	1258709	16.958	6359.16	8				
Unknown								
5.678	23542078	317.17	118938	8				
Unknown								
5.710	24203287	326.07	122278	8				
Unknown								
5.737	24686866	332.59	124721	8				
Unknown								
5.758	65851963	887.18	332692	8				
Unknown								
5.817	40064534	539.76	202411	8				
95-87-4 Phenol, 2,5-dimethyl-								
6.015	60615890	816.64	306239	8	97	9932	C8H10O	122
Unknown								
6.154	55708173	399.63	149860	23				
Unknown								
6.319	26298024	188.65	70744	23				
Unknown								
6.340	54840013	393.40	147525	23				

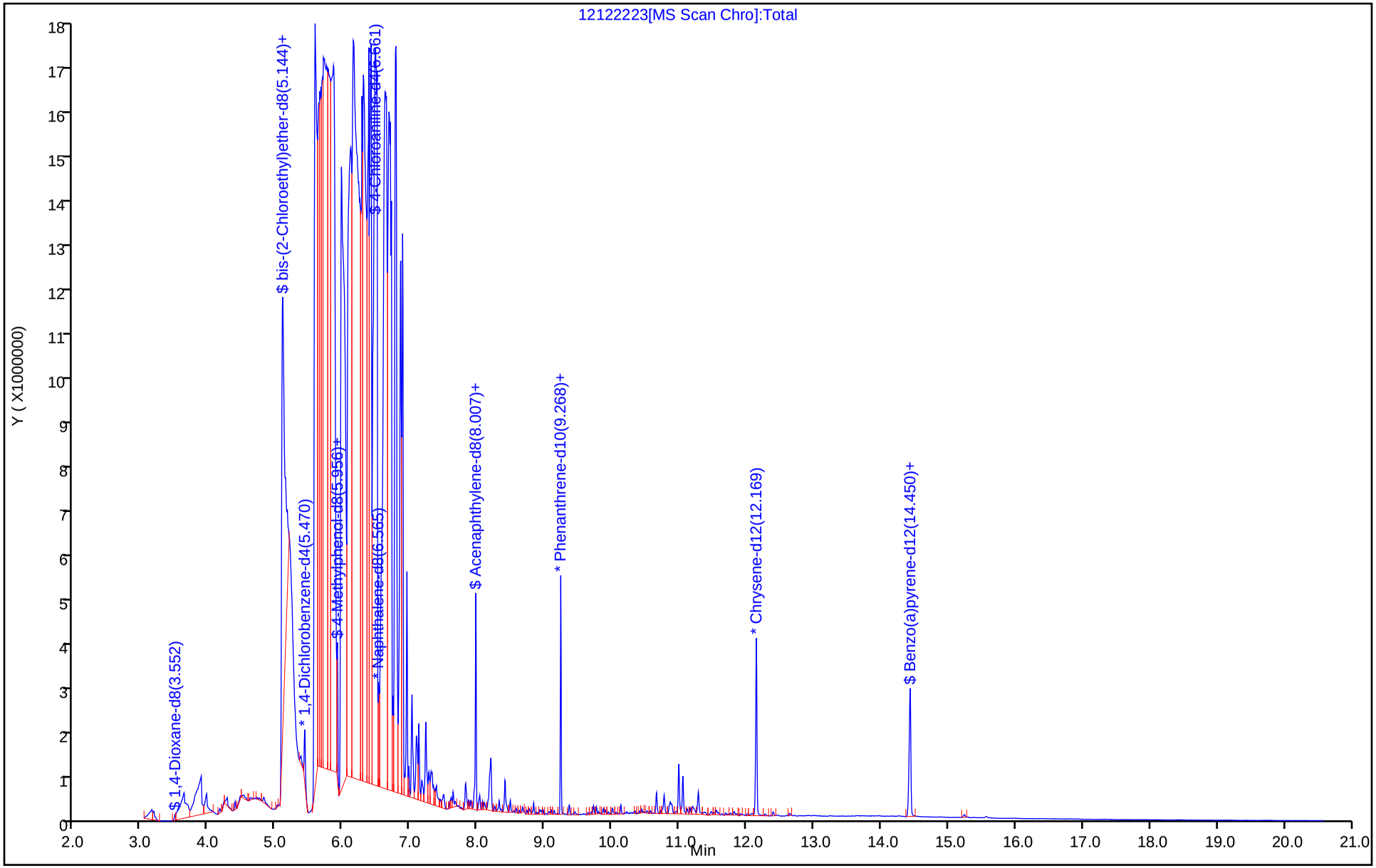
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown						
6.421	26911570	193.05	72395	23				
	526-75-0	Phenol, 2,3-dimethyl-						
6.453	35143214	252.10	94539	23	91	9934	C8H10O	122
	527-54-8	Phenol, 3,4,5-trimethyl-						
6.720	53464741	383.53	143825	23	91	16415	C9H12O	136
		Unknown						
6.779	2378596	17.063	6398.65	23				
		Unknown						
6.821	35694908	256.06	96023	23				
	527-60-6	Phenol, 2,4,6-trimethyl-						
6.896	21216872	152.20	57075	23	87	16421	C9H12O	136
	698-71-5	Phenol, 3-ethyl-5-methyl-						
6.923	16487323	118.27	44352	23	86	16437	C9H12O	136
		Unknown						
6.987	5755488	41.288	15483	23				
		Unknown						
7.062	3464286	24.851	9319.26	23				
		Unknown						
7.126	2856162	20.489	7683.35	23				
		Unknown						
7.163	1856667	13.319	4994.61	23				
	334-48-5	n-Decanoic acid						
7.265	2999118	21.514	8067.92	23	93	39473	C10H20O2	172
		Unknown						
7.313	1113492	4.5423	1703.34	41				
		Unknown						
7.345	2010504	8.2014	3075.53	41				
	586-30-1	3-Hydroxy-4-methylbenzoic acid						
8.232	2586420	10.551	3956.53	41	90	25859	C8H8O3	152
	1000343-25-4	4-Hydroxy-3,5-dimethylbenzoic acid						
8.440	1144983	4.6707	1751.52	41	93	35720	C9H10O3	166
		Unknown						
11.020	1438381	5.5007	2062.75	69				
		Unknown						
11.079	1218485	4.6597	1747.40	69				

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.475	1484524	20.000
* 23 Naphthalene-d8	6.549	2788005	20.000
* 41 Acenaphthene-d10	8.007	4902821	20.000
* 69 Chrysene-d12	12.169	5229851	20.000

Report Date: 06-Jan-2016 10:09:42 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D				
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R32	Lab ID:	QL16010-002		
Sample Info:	12122215.b, QL16010-002				
Injection Vol.	1.00 1	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

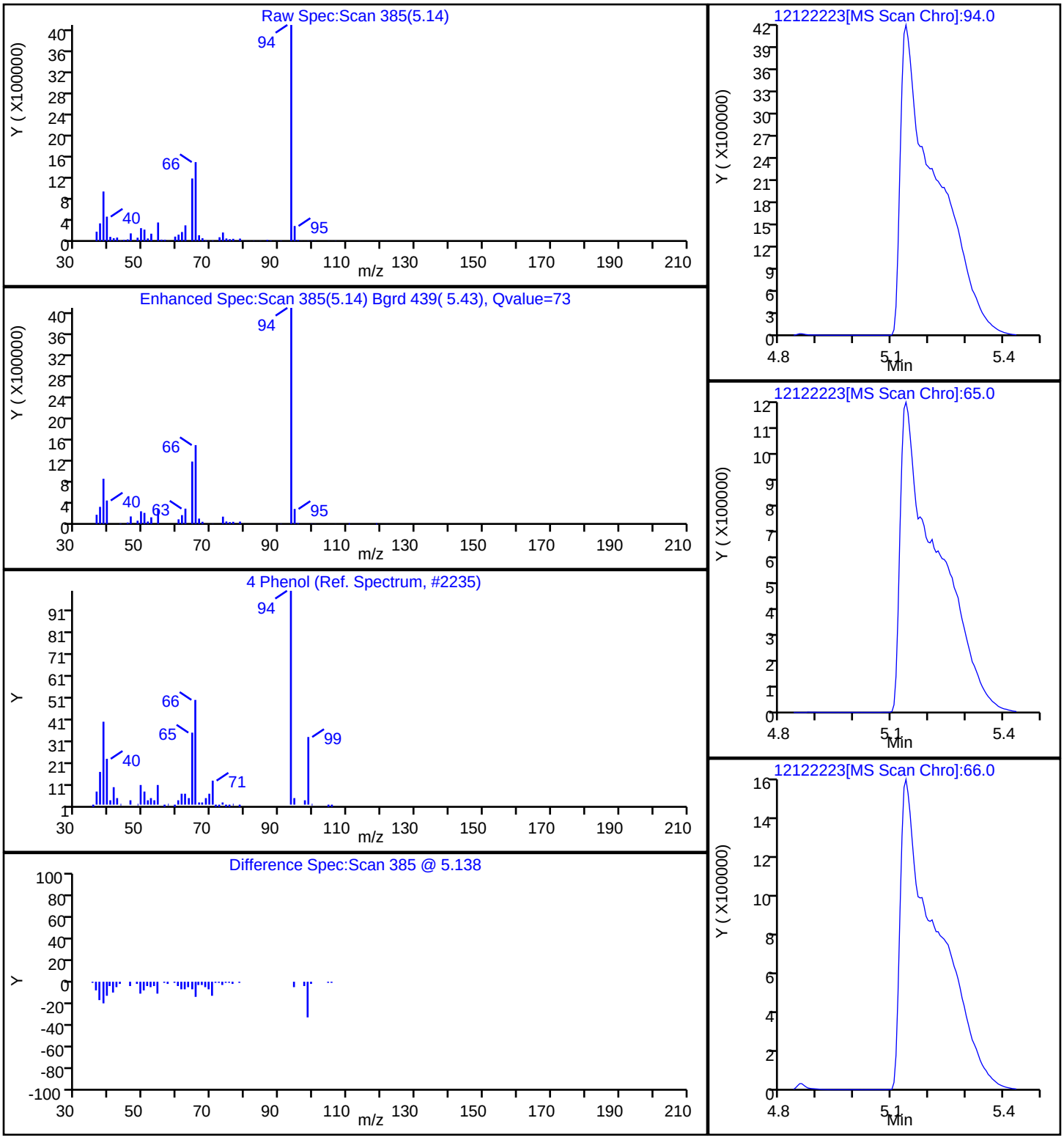


Report Date: 06-Jan-2016 10:09:42 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

4 Phenol

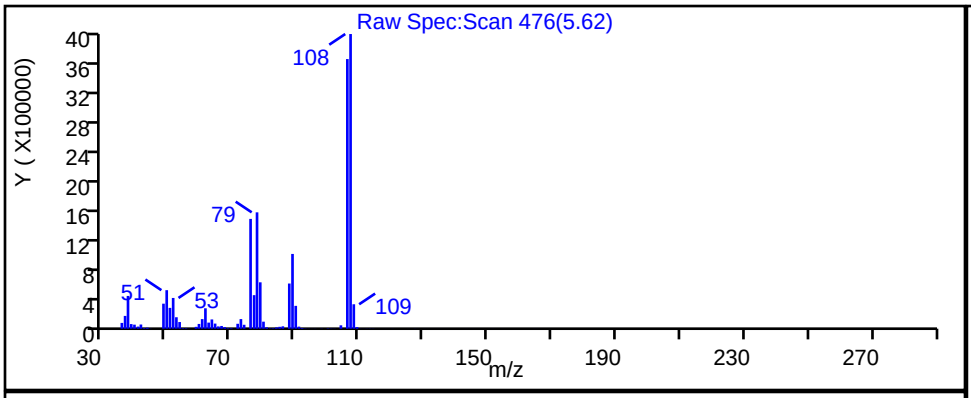


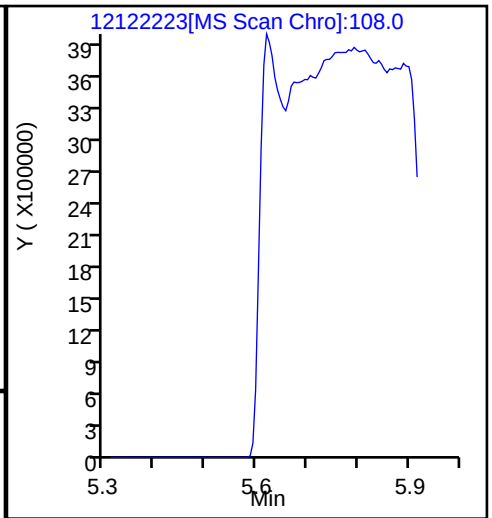
Report Date: 06-Jan-2016 10:09:42 AIM Revision: 1.0 26-May-2015 13:41:26

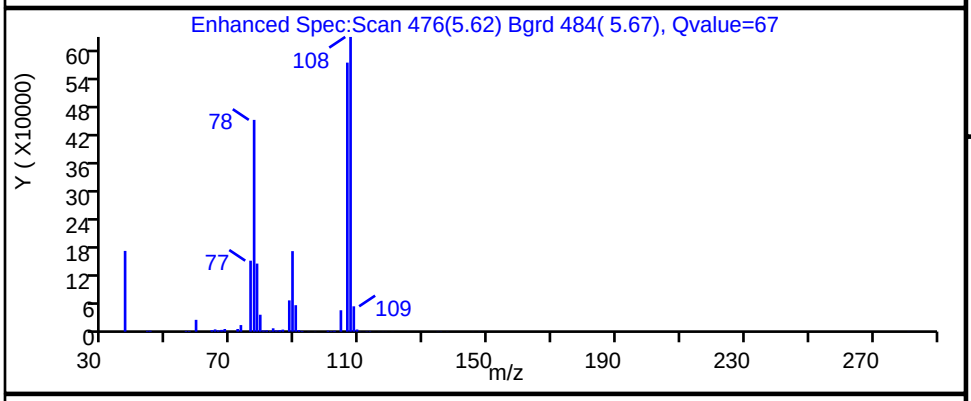
Shealy Environmental Services

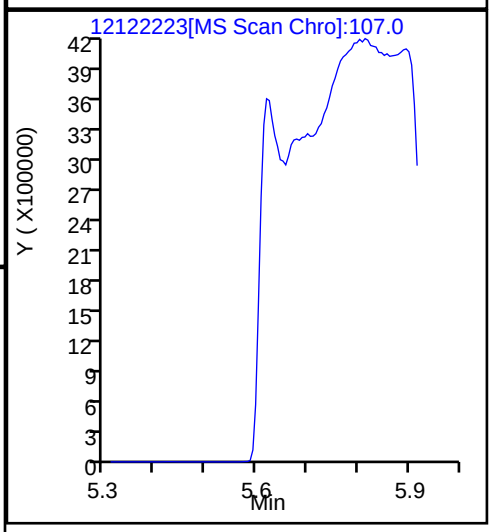
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

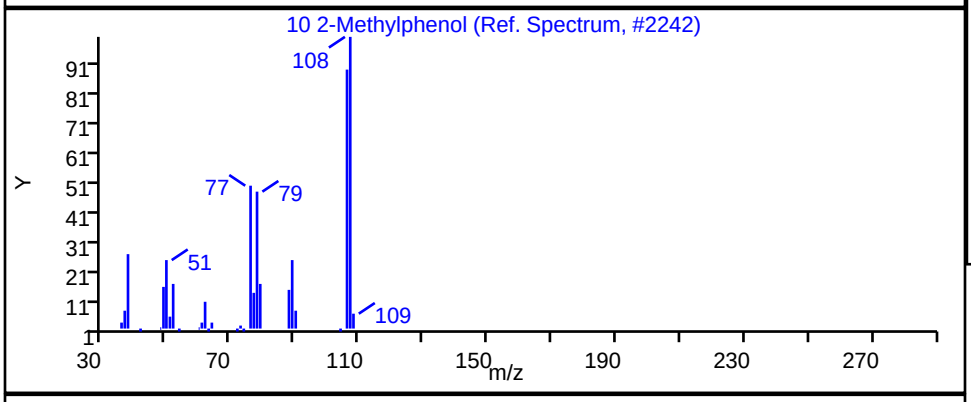
10 2-Methylphenol

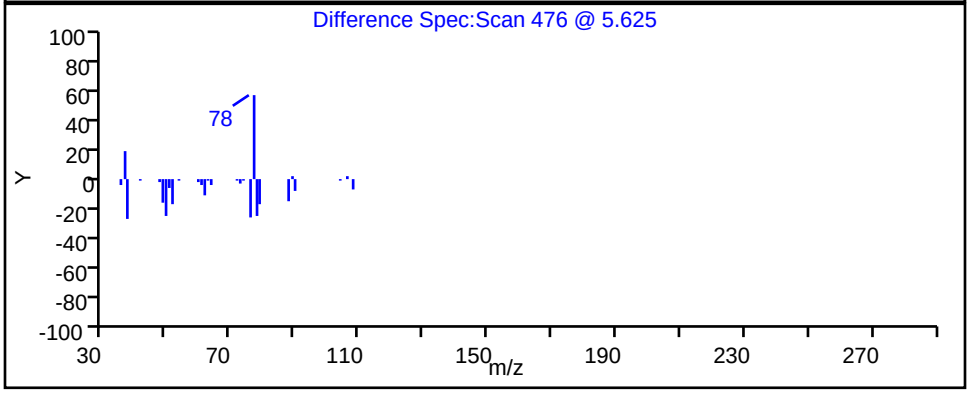










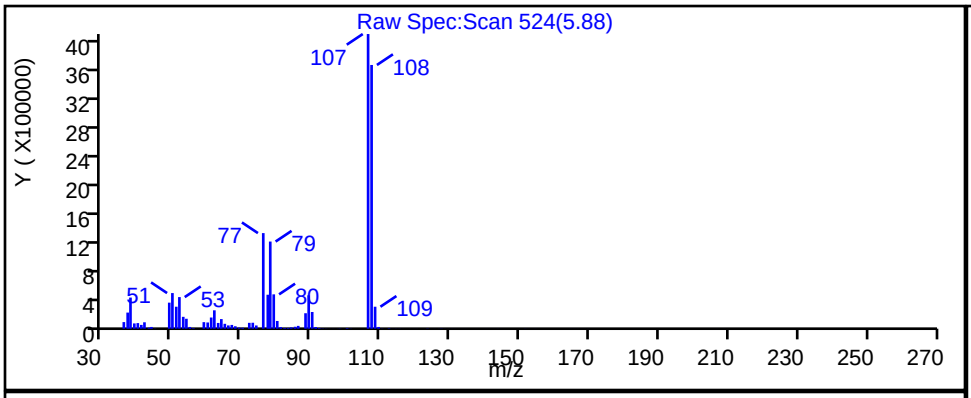


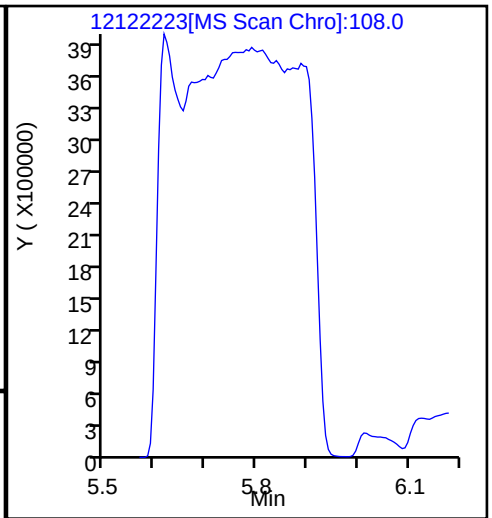
Report Date: 06-Jan-2016 10:09:42 AIM Revision: 1.0 26-May-2015 13:41:26

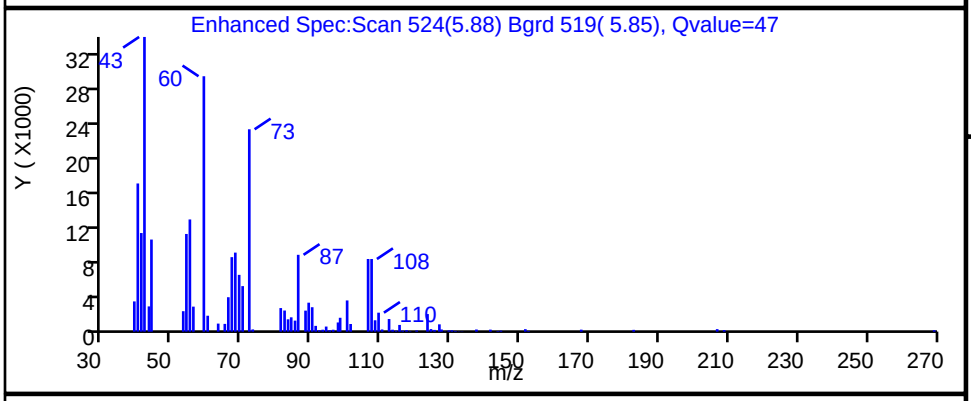
Shealy Environmental Services

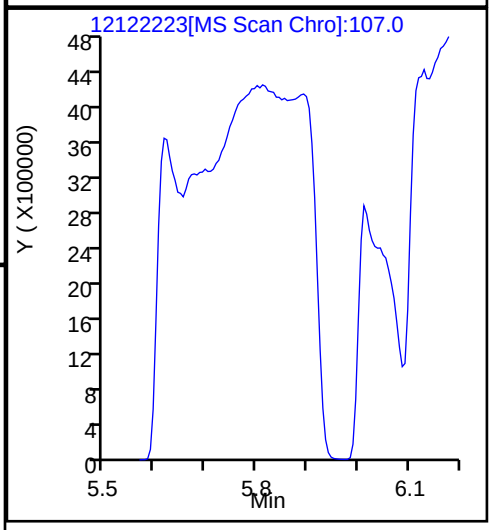
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

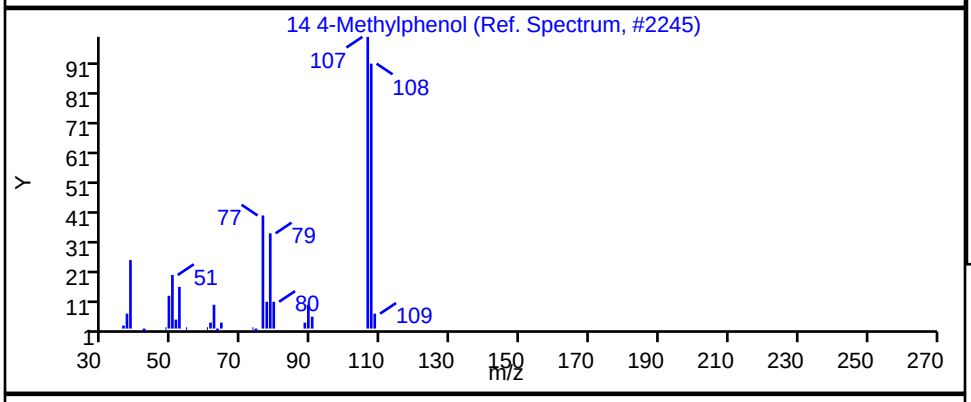
14 4-Methylphenol

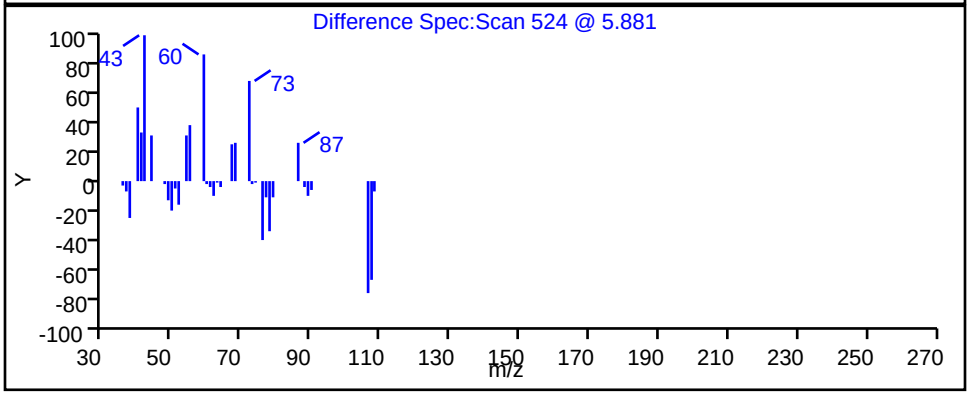










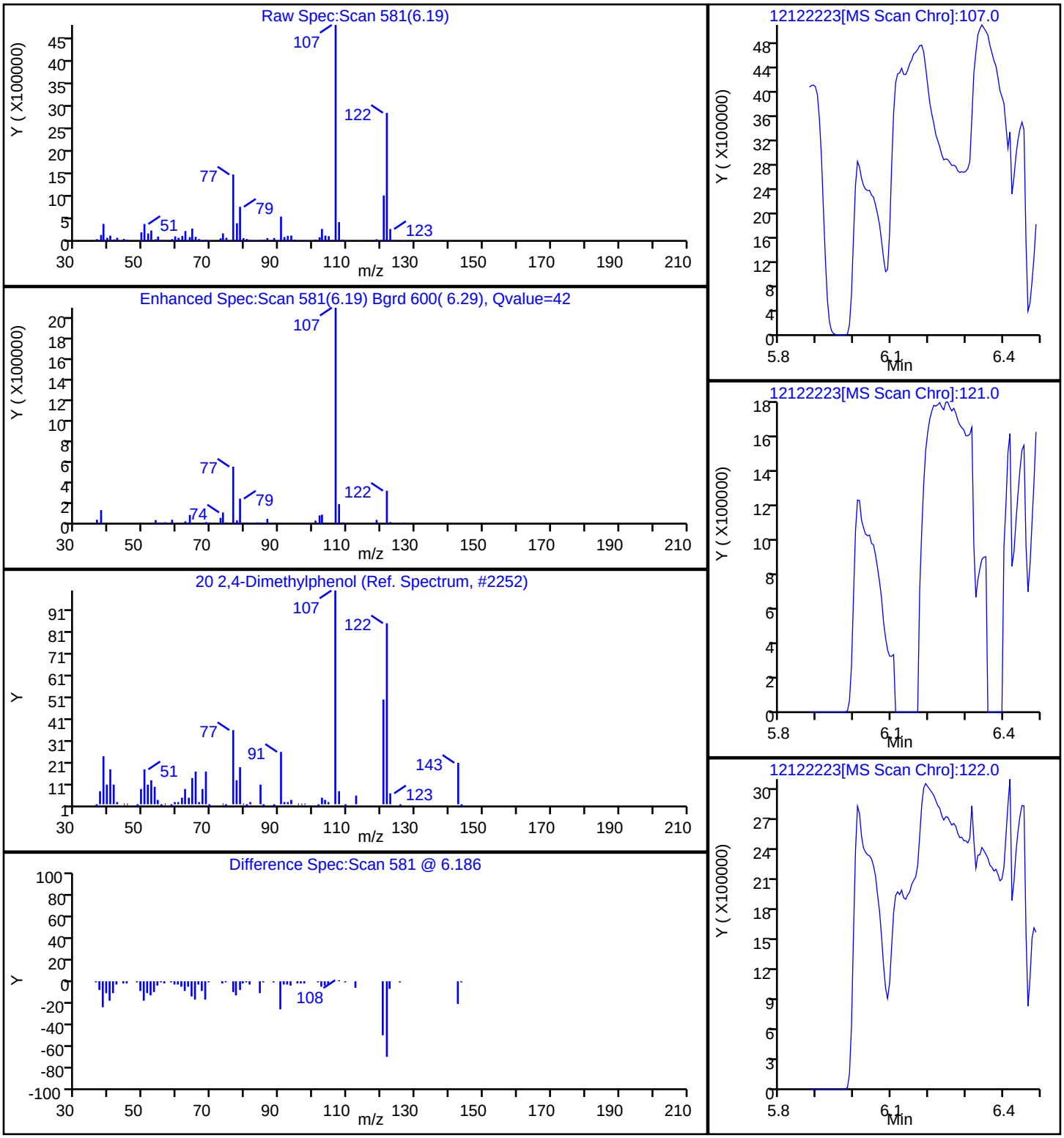


Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

20 2,4-Dimethylphenol



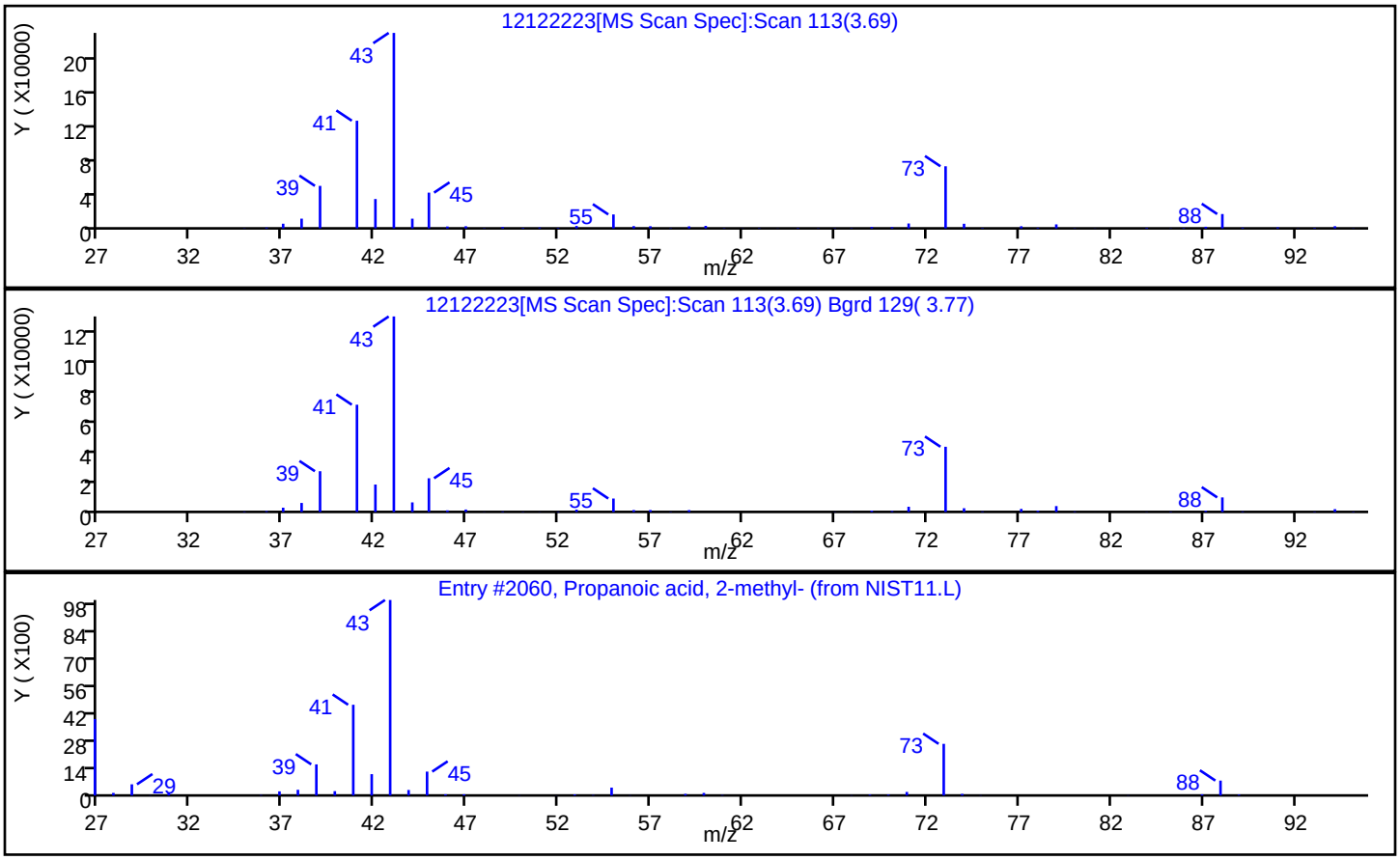
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 3.680

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Propanoic acid, 2-methyl-	79-31-2	NIST11	2060	C4H8O2	88	91



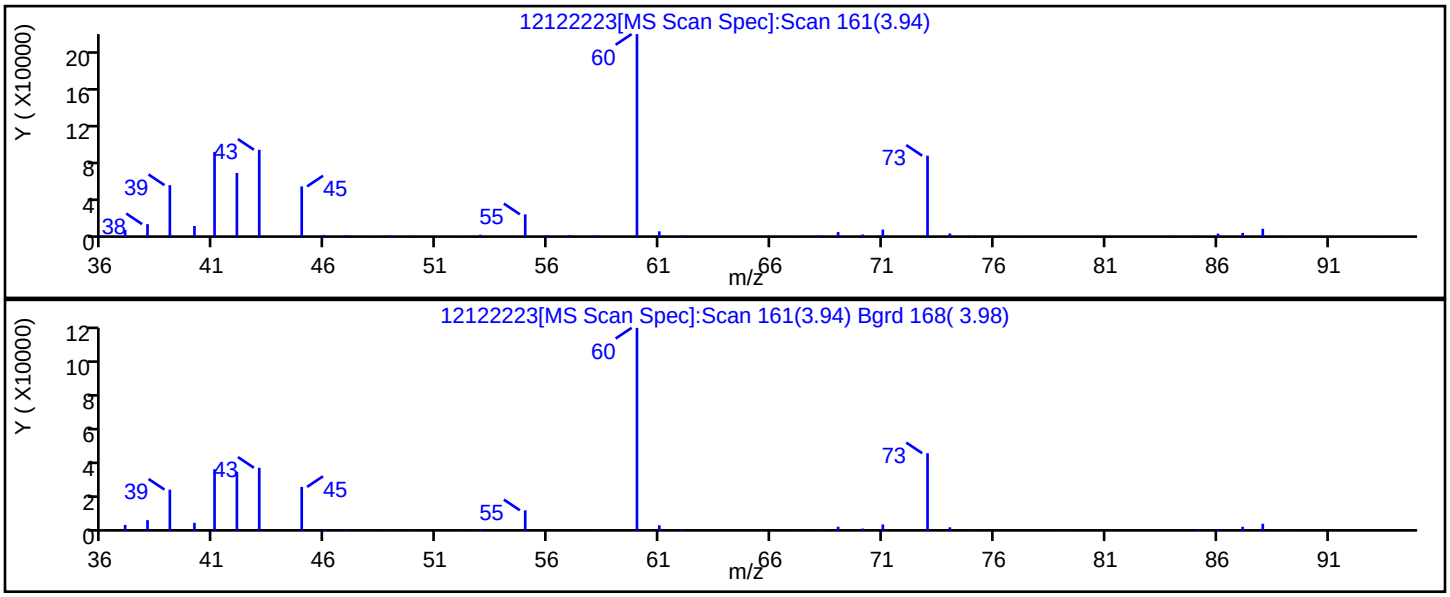
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 3.936

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



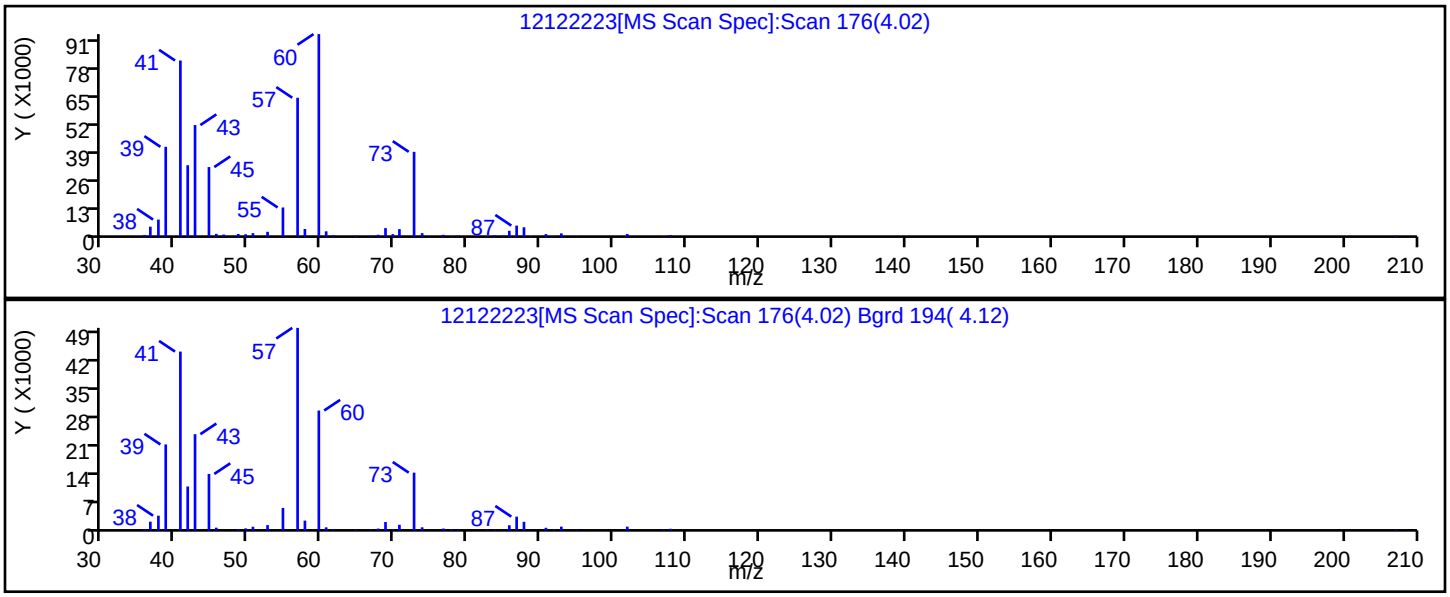
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.017

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



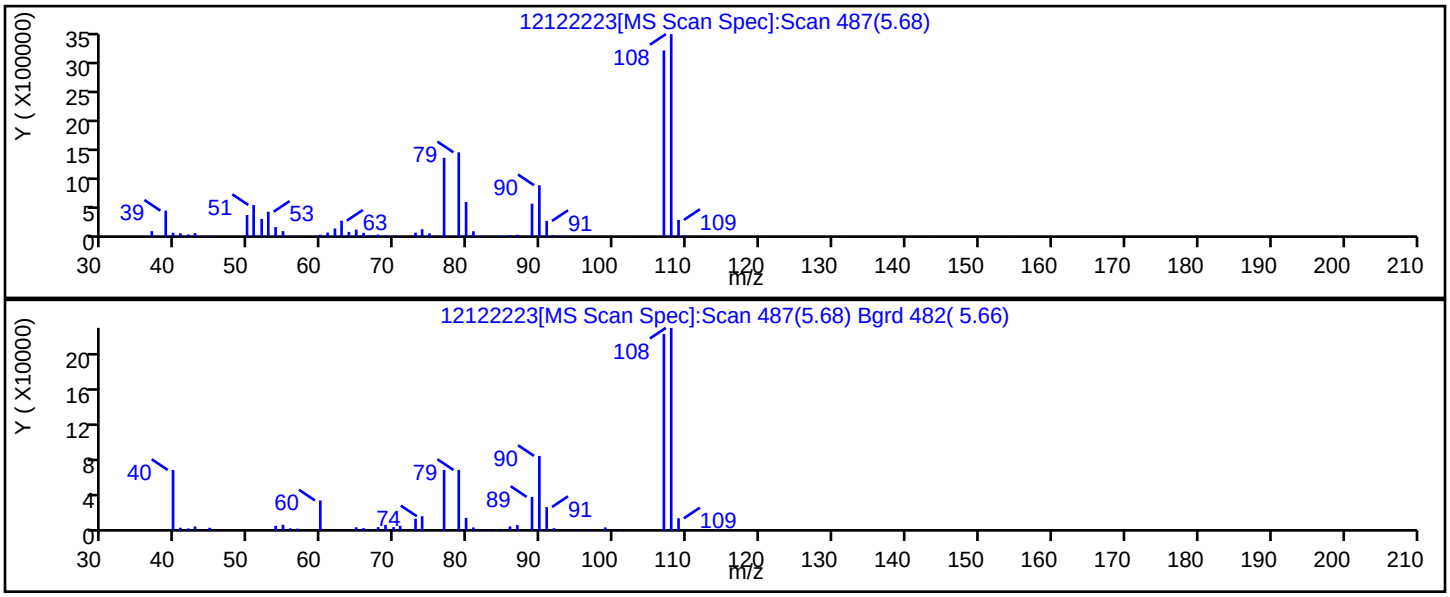
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.678

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



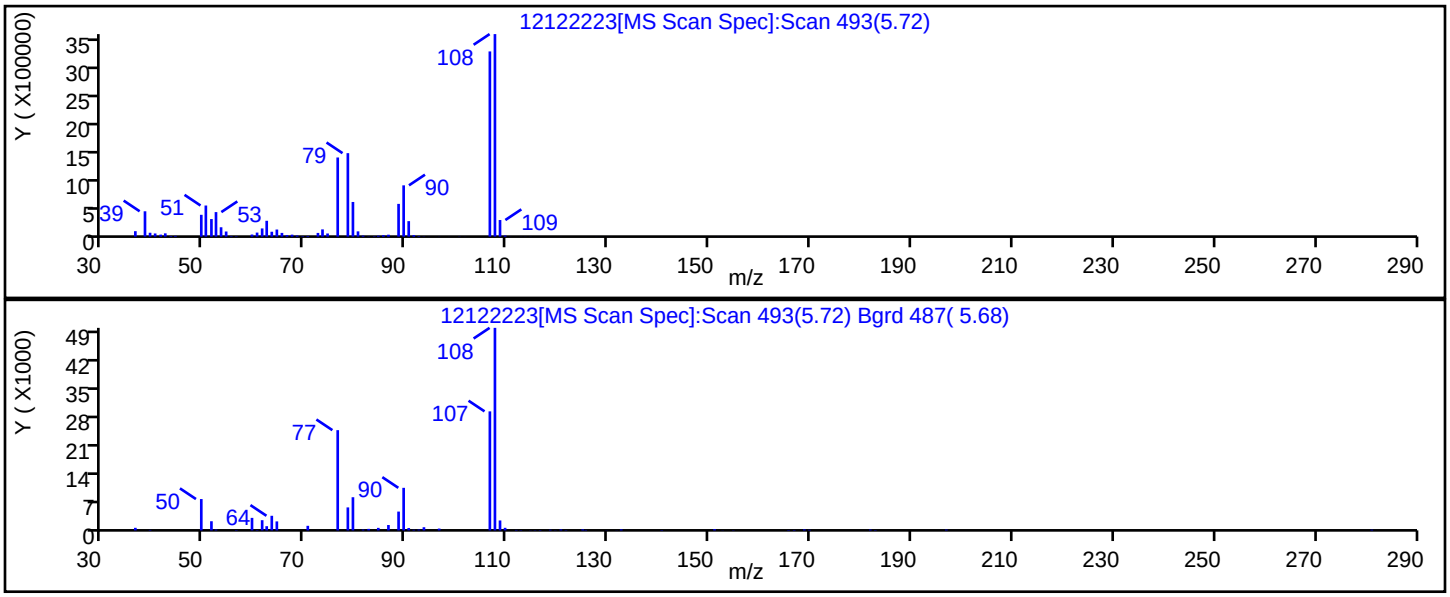
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.710

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



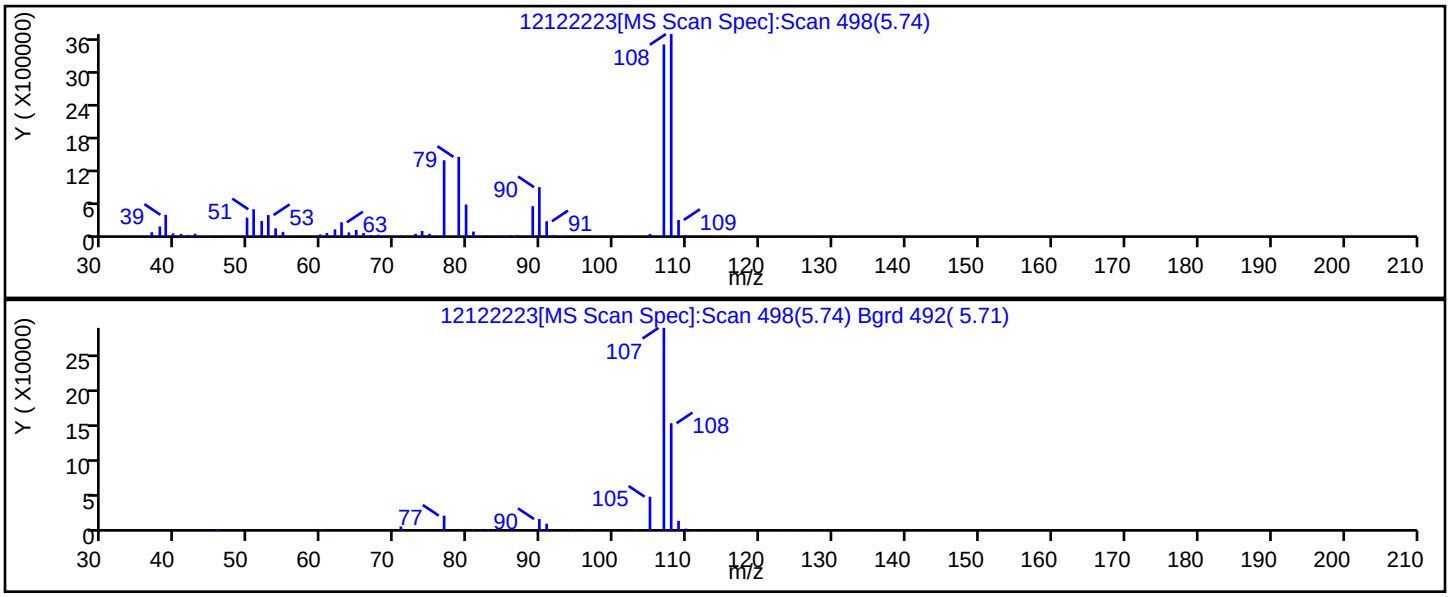
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.737

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



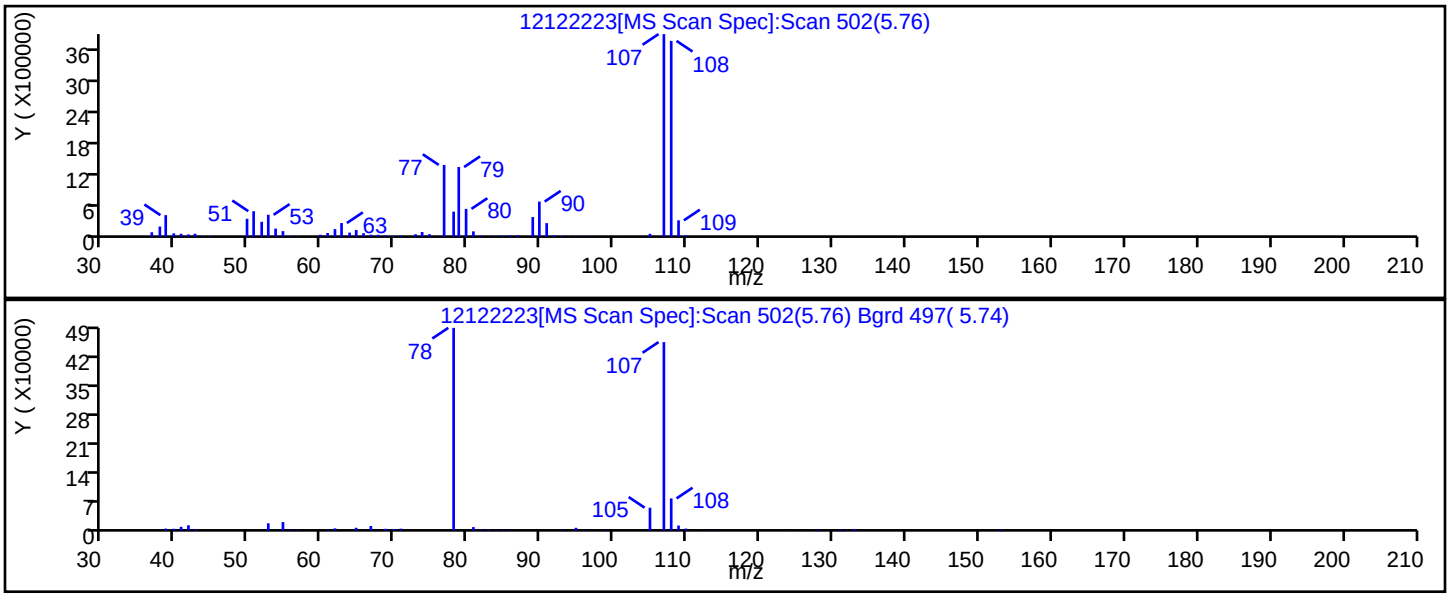
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.758

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



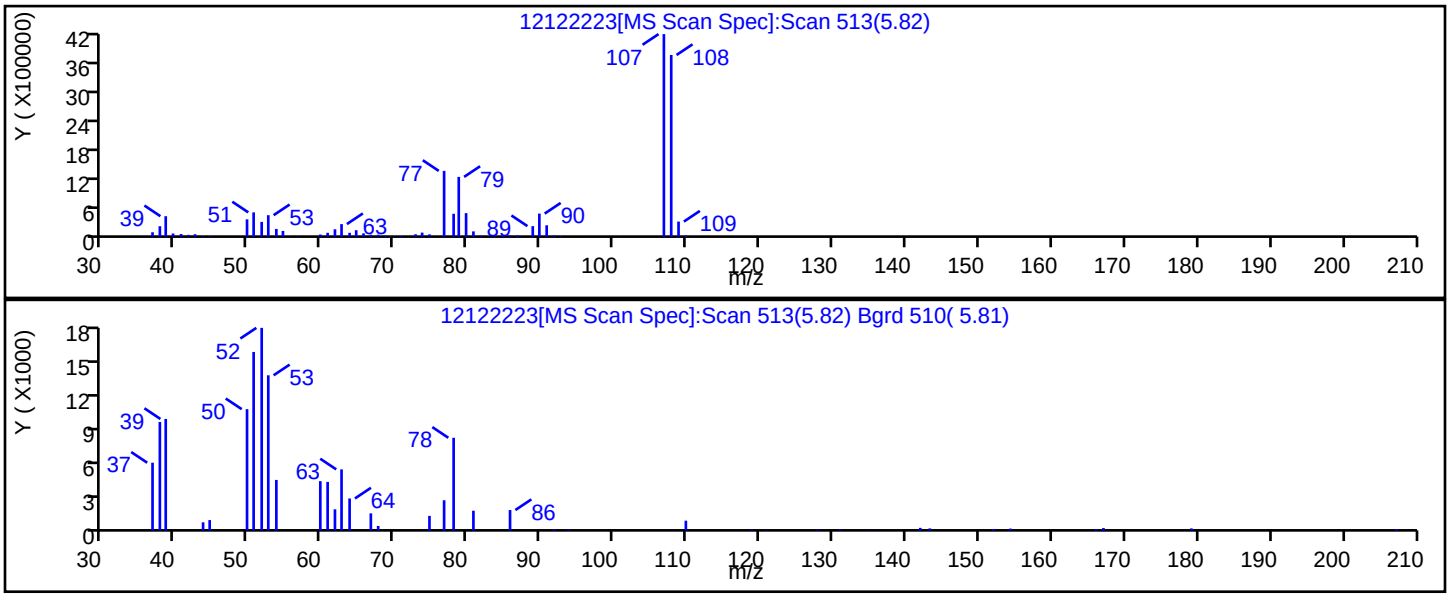
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.817

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122223.D

Injection Date: 22-Dec-2015 20:02:30 Inst. ID: msd12.i

Client ID: F6R32 Lab ID: QL16010-002

Sample Info: 12122215.b, QL16010-002

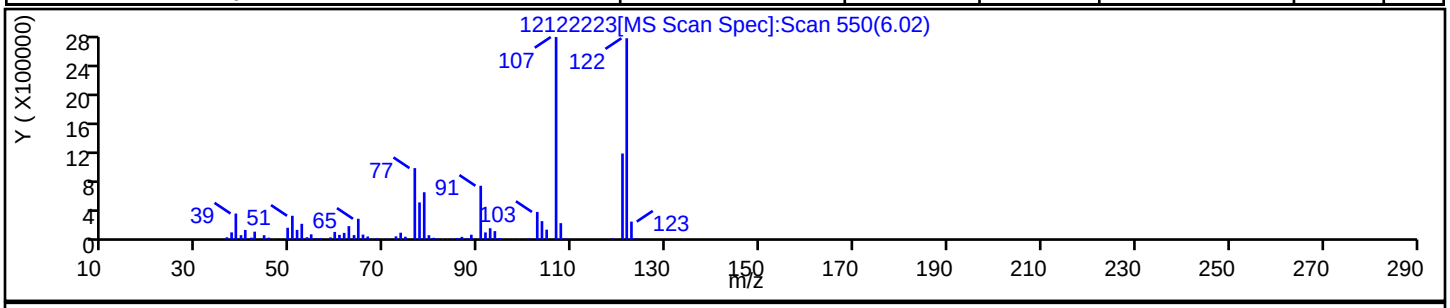
Injection Vol. 1.00 1 Dil. Factor: 20.0

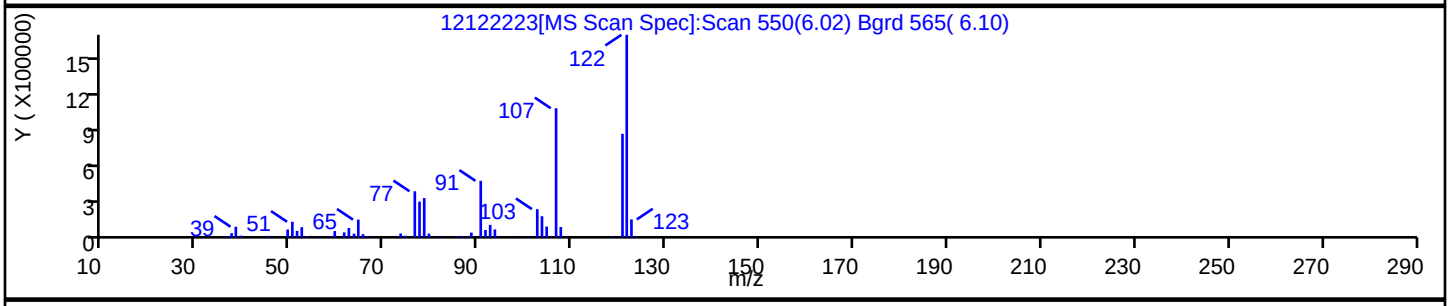
Operator: RBH

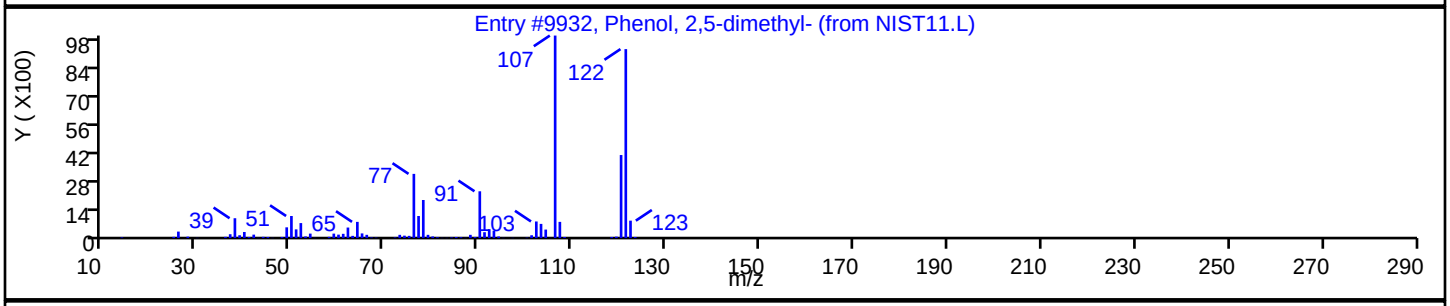
Column1: Zebron ZB-SV (0.25 mm) Detector: MS Scan

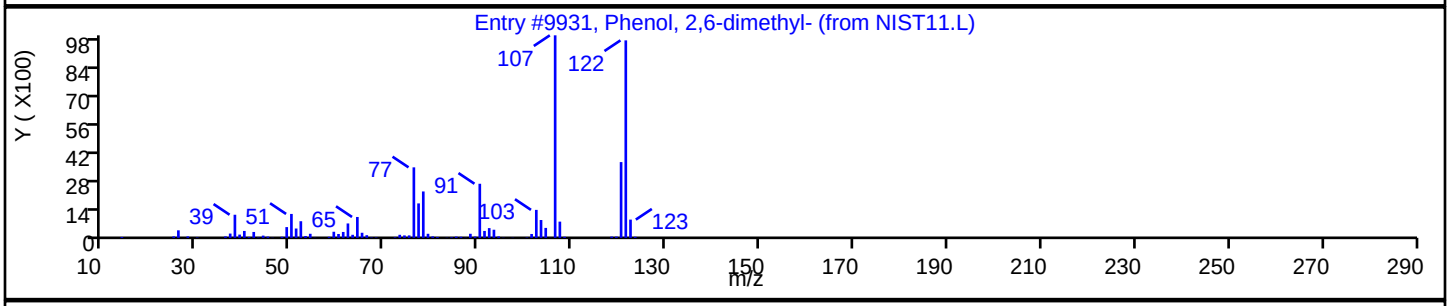
TIC @ 6.015

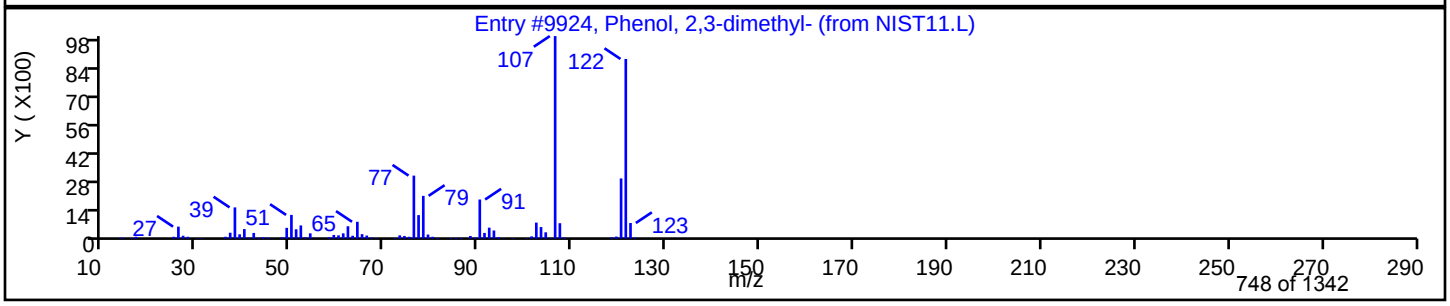
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,5-dimethyl-	95-87-4	NIST11	9932	C8H10O	122	97
Phenol, 2,6-dimethyl-	576-26-1	NIST11	9931	C8H10O	122	96
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9924	C8H10O	122	95











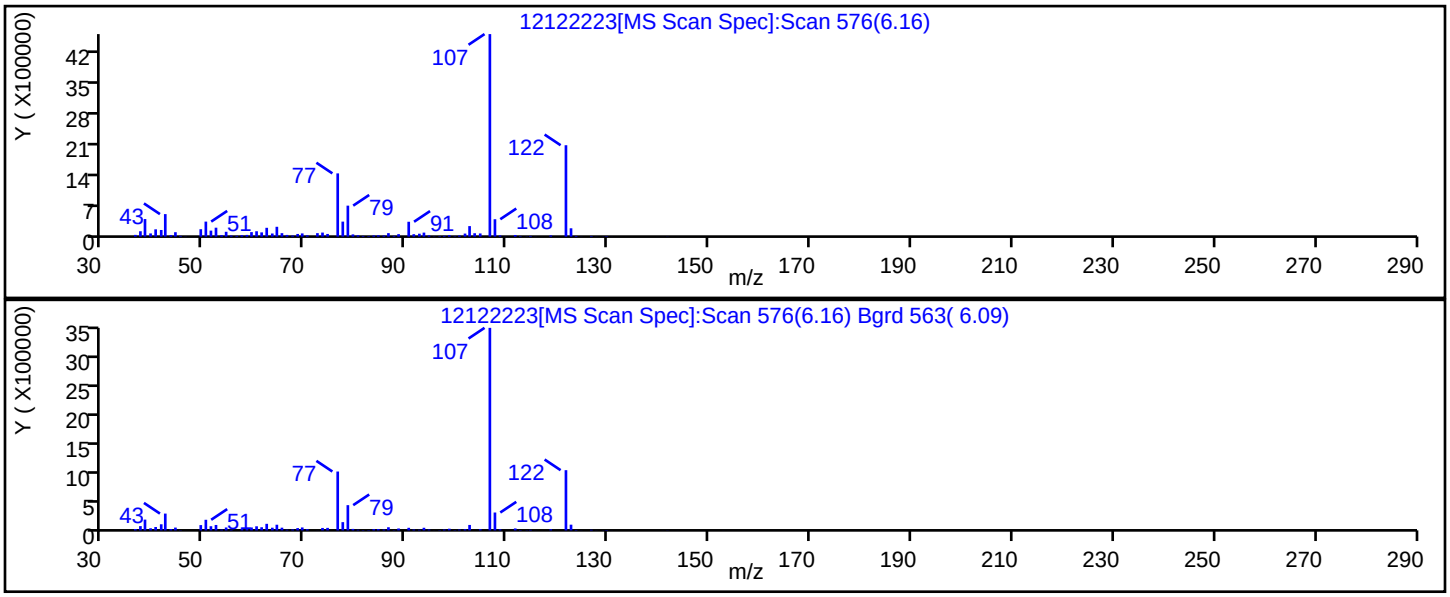
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.154

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



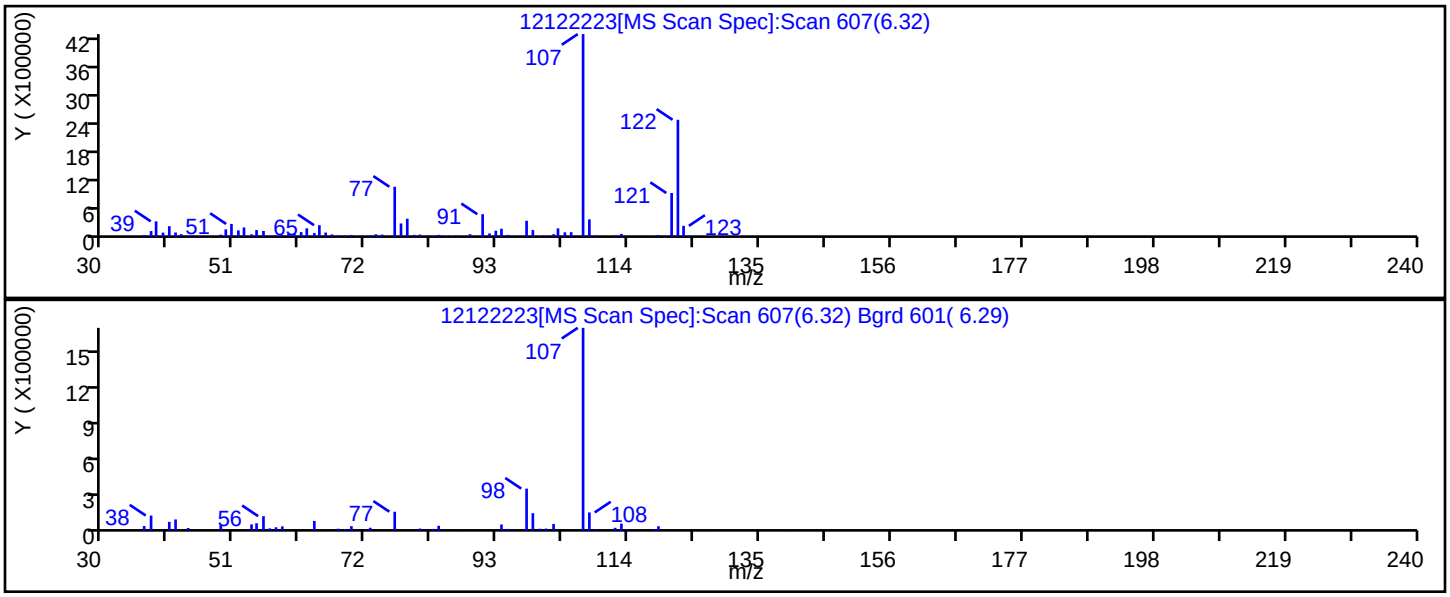
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.319

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



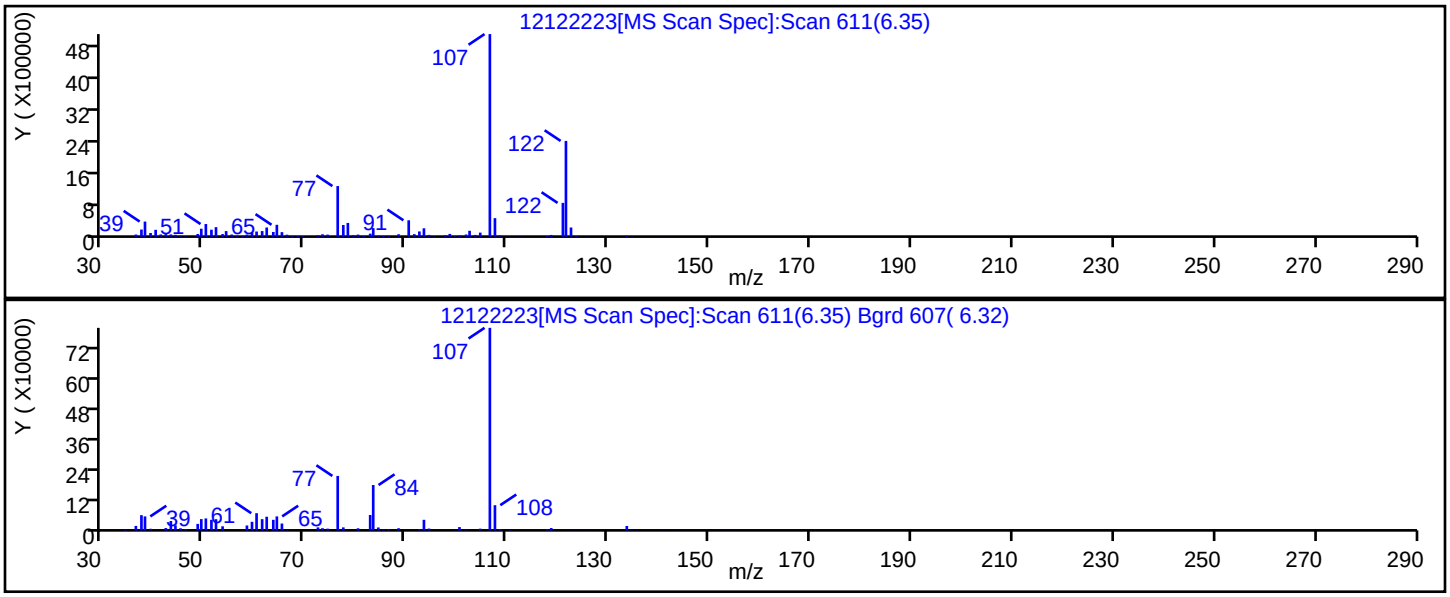
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.340

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



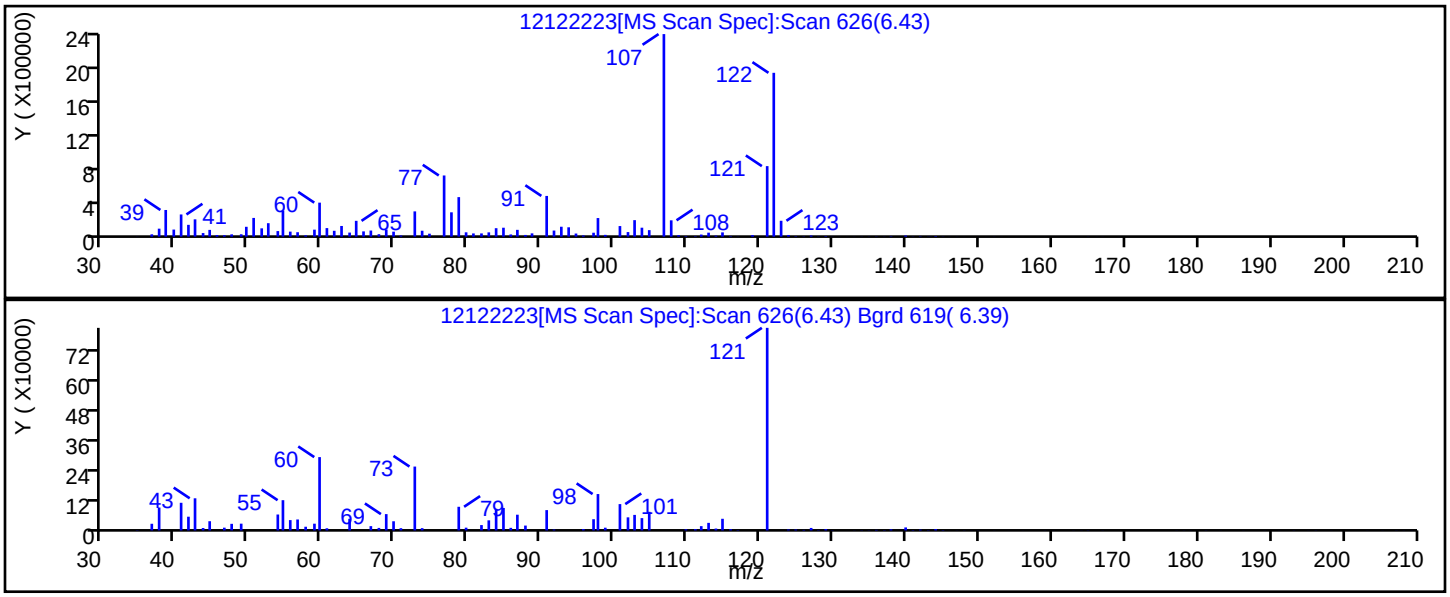
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.421

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



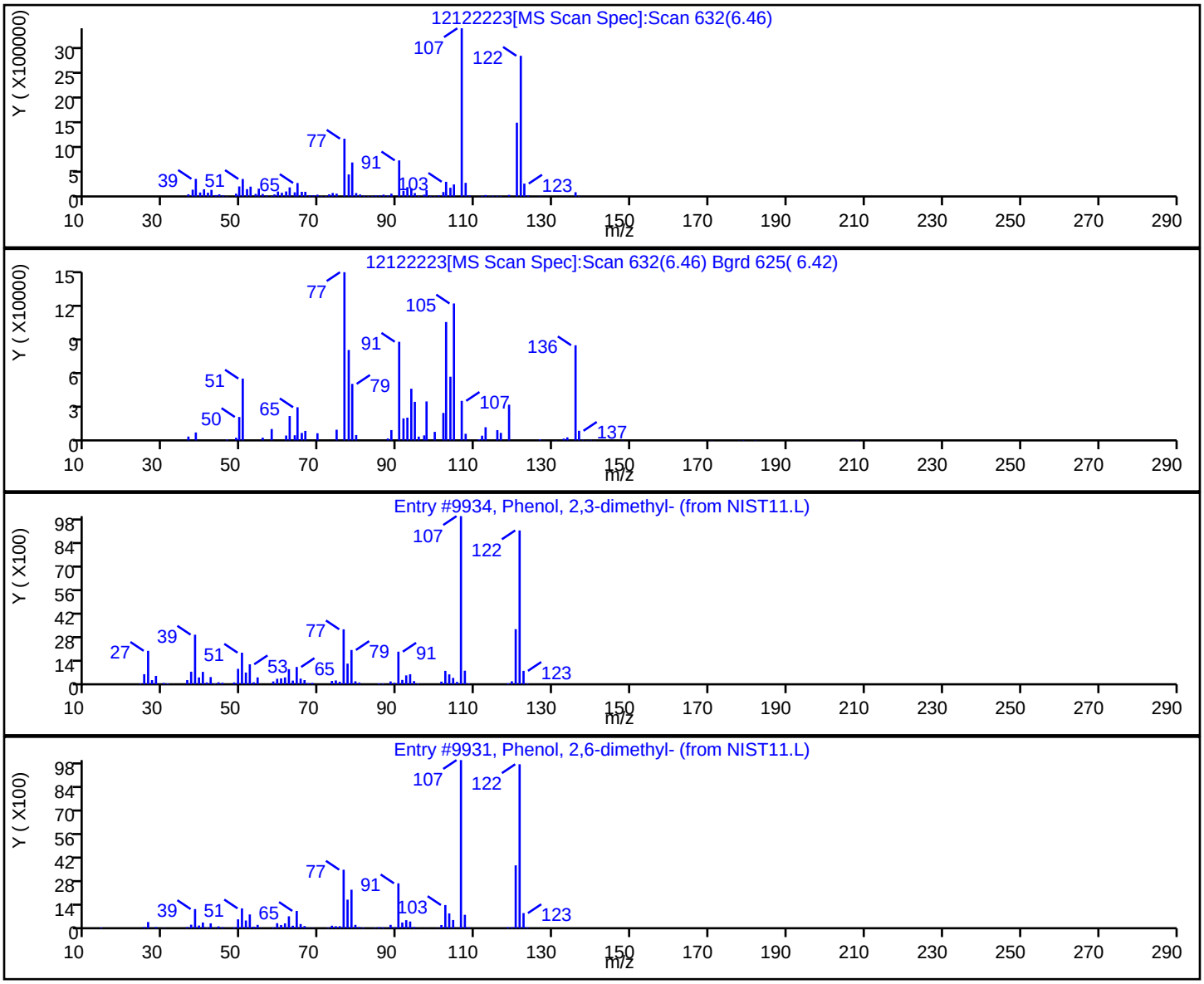
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.453

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9934	C8H10O	122	91
Phenol, 2,6-dimethyl-	576-26-1	NIST11	9931	C8H10O	122	91



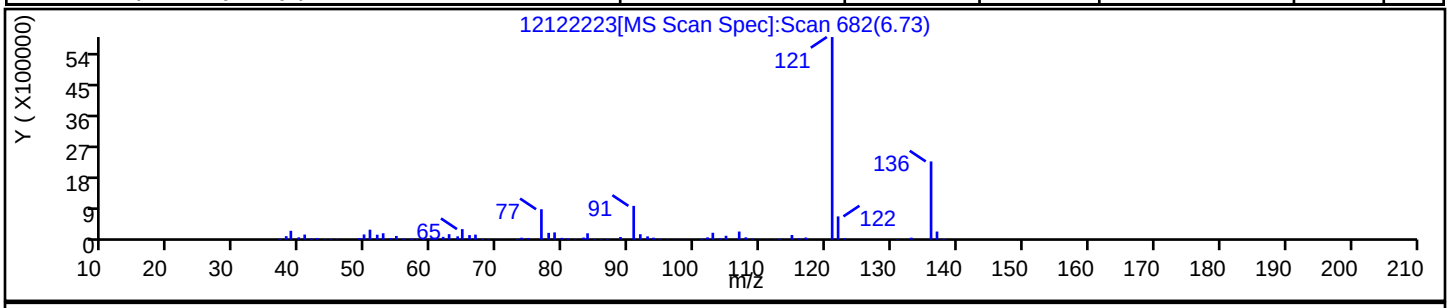
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

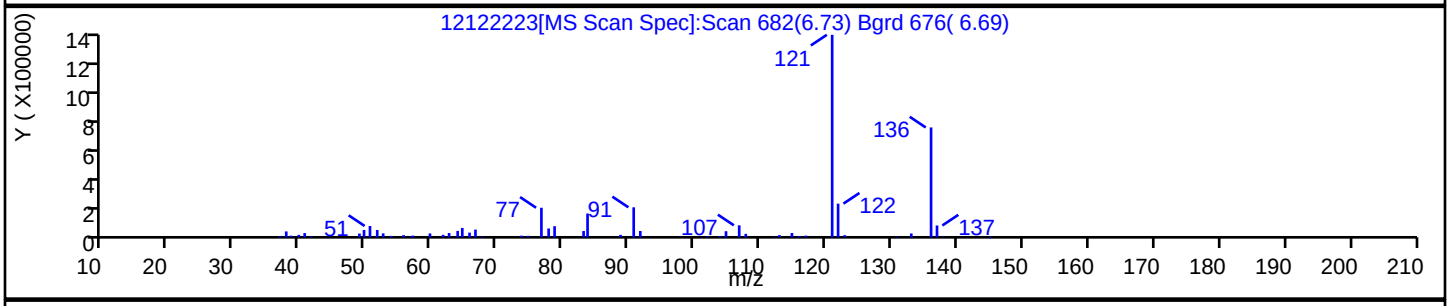
Shealy Environmental Services

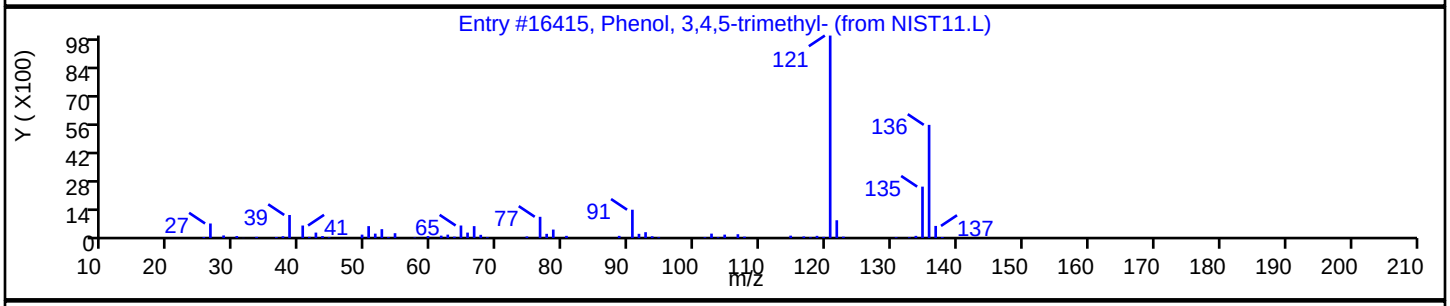
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

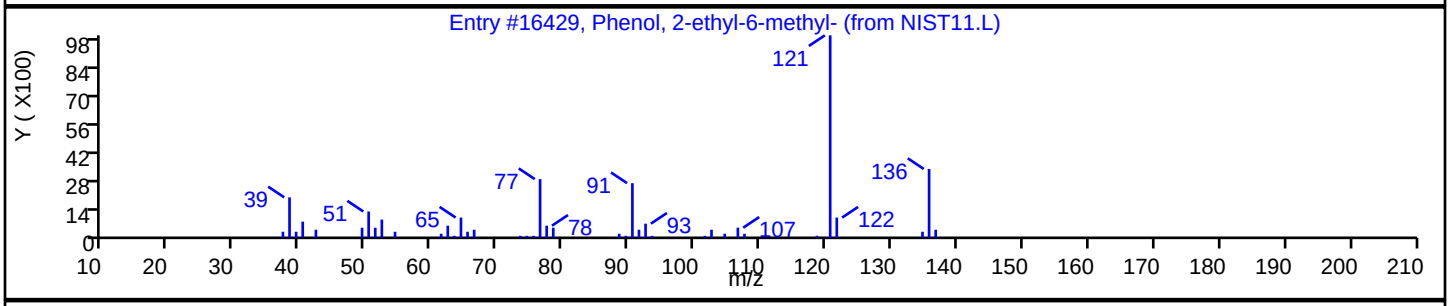
TIC @ 6.720

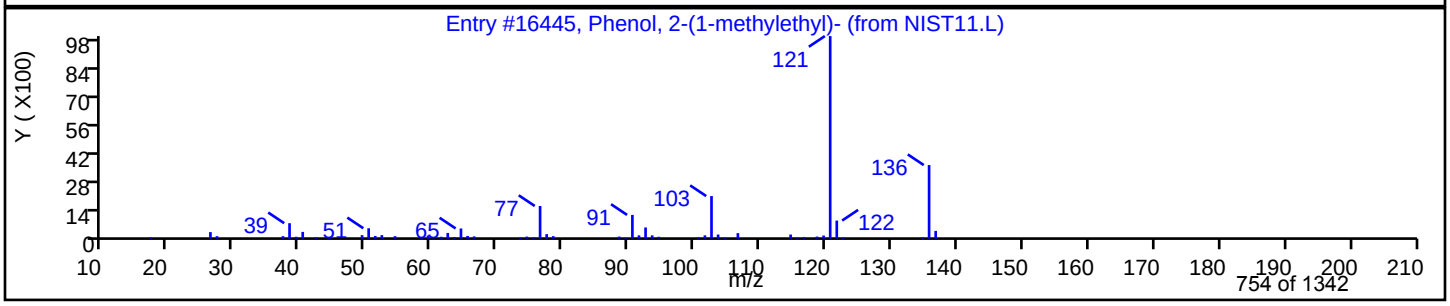
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,4,5-trimethyl-	527-54-8	NIST11	16415	C9H12O	136	91
Phenol, 2-ethyl-6-methyl-	1687-64-5	NIST11	16429	C9H12O	136	91
Phenol, 2-(1-methylethyl)-	88-69-7	NIST11	16445	C9H12O	136	91











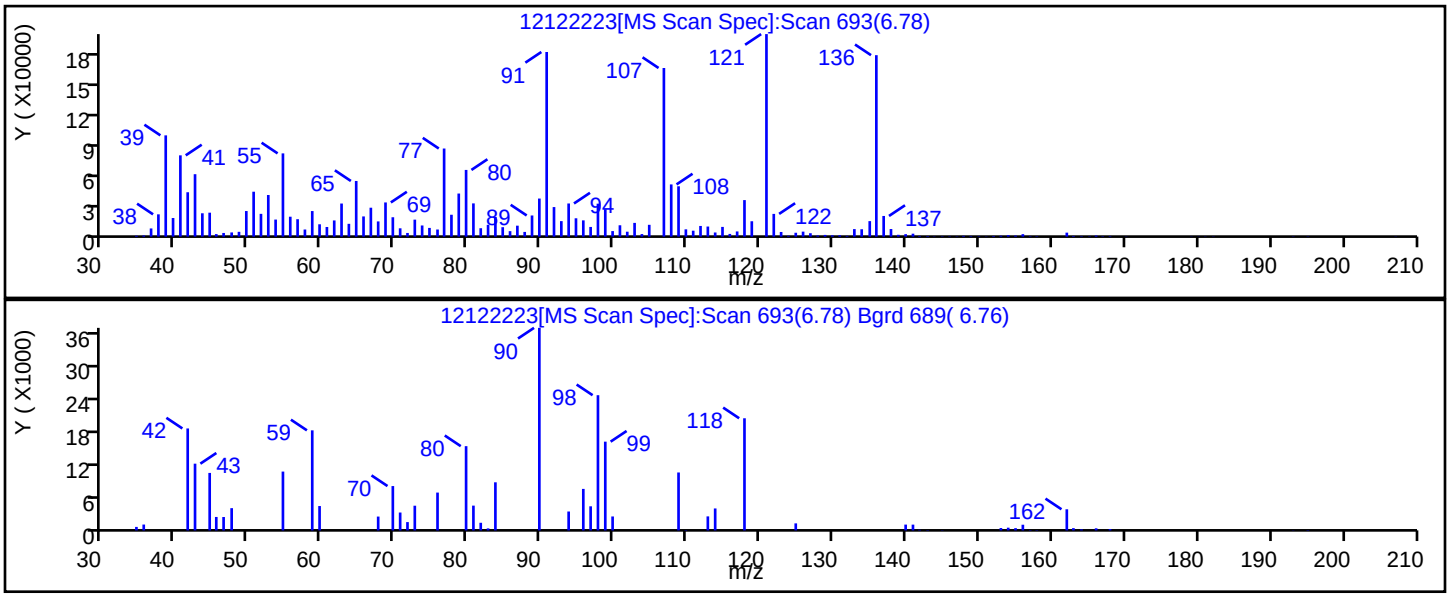
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.779

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



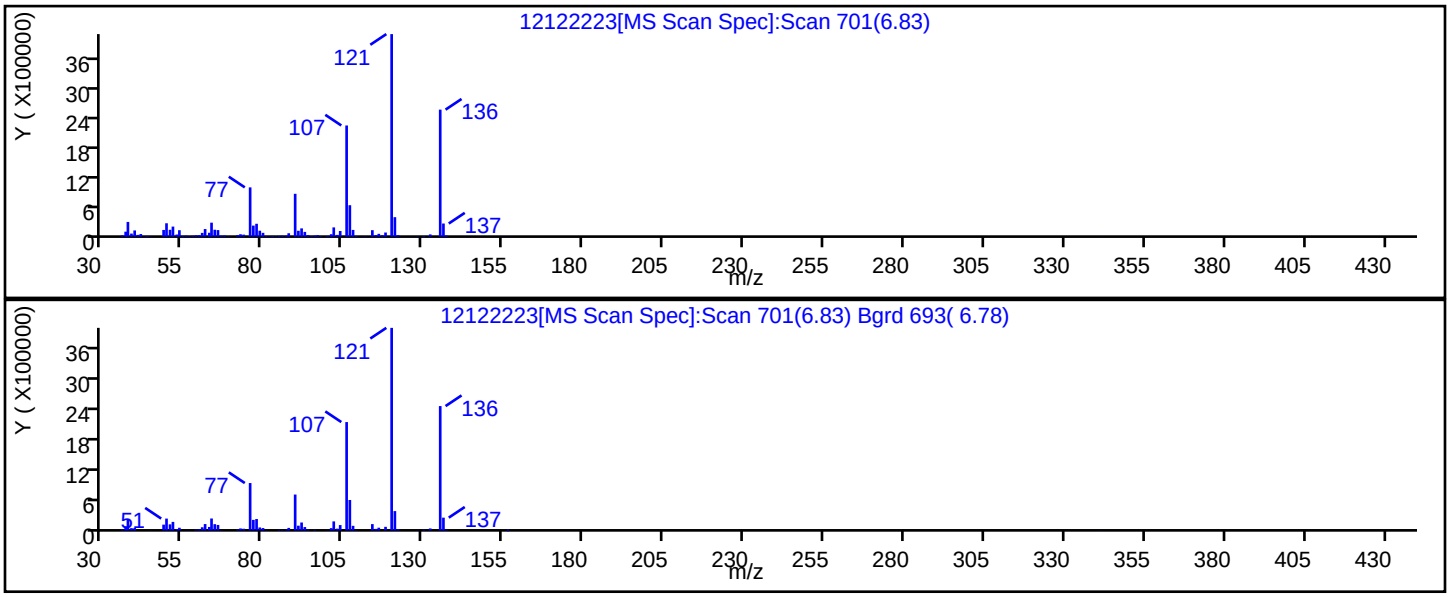
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.821

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



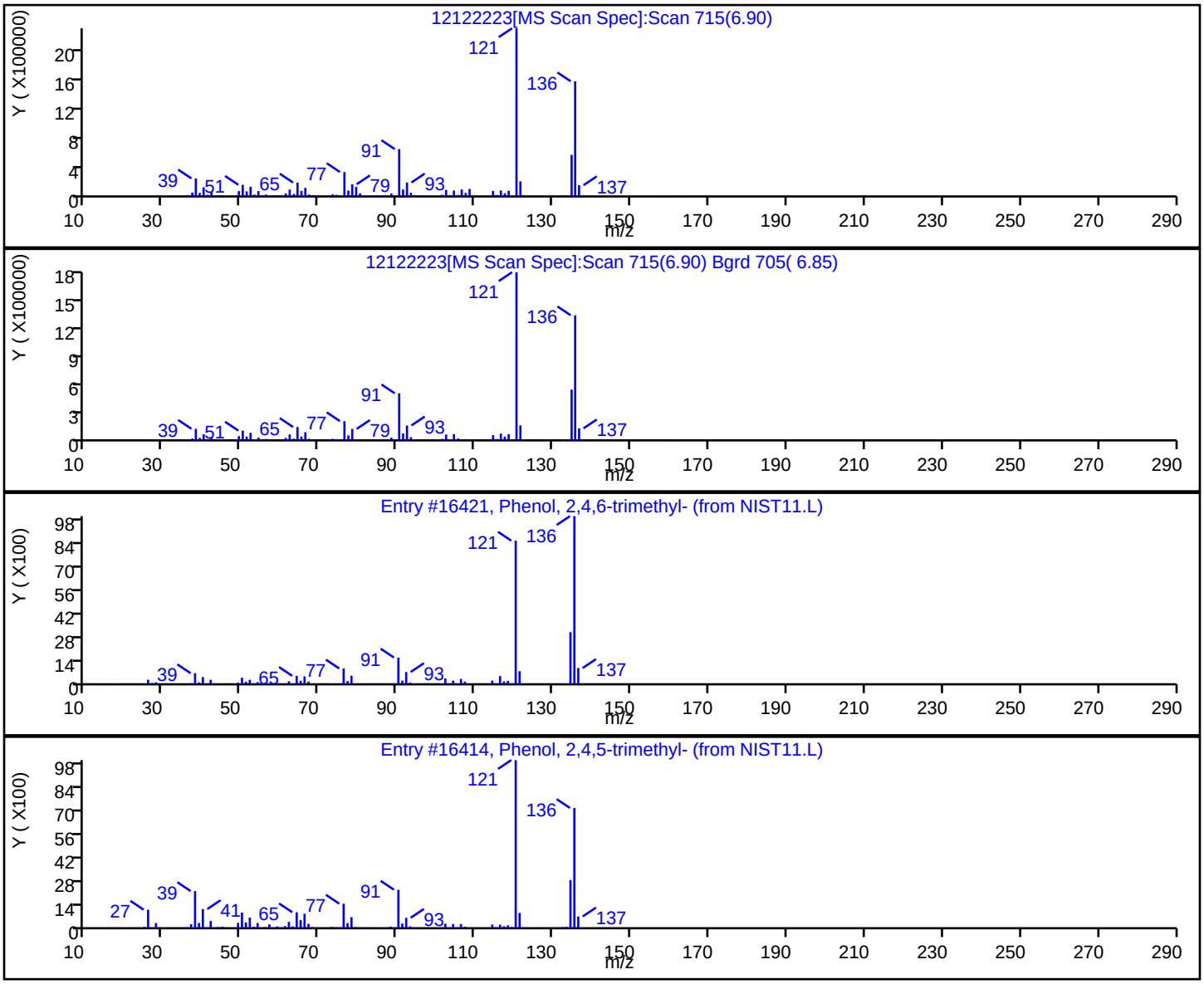
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.896

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,4,6-trimethyl-	527-60-6	NIST11	16421	C9H12O	136	87
Phenol, 2,4,5-trimethyl-	496-78-6	NIST11	16414	C9H12O	136	86



Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.923

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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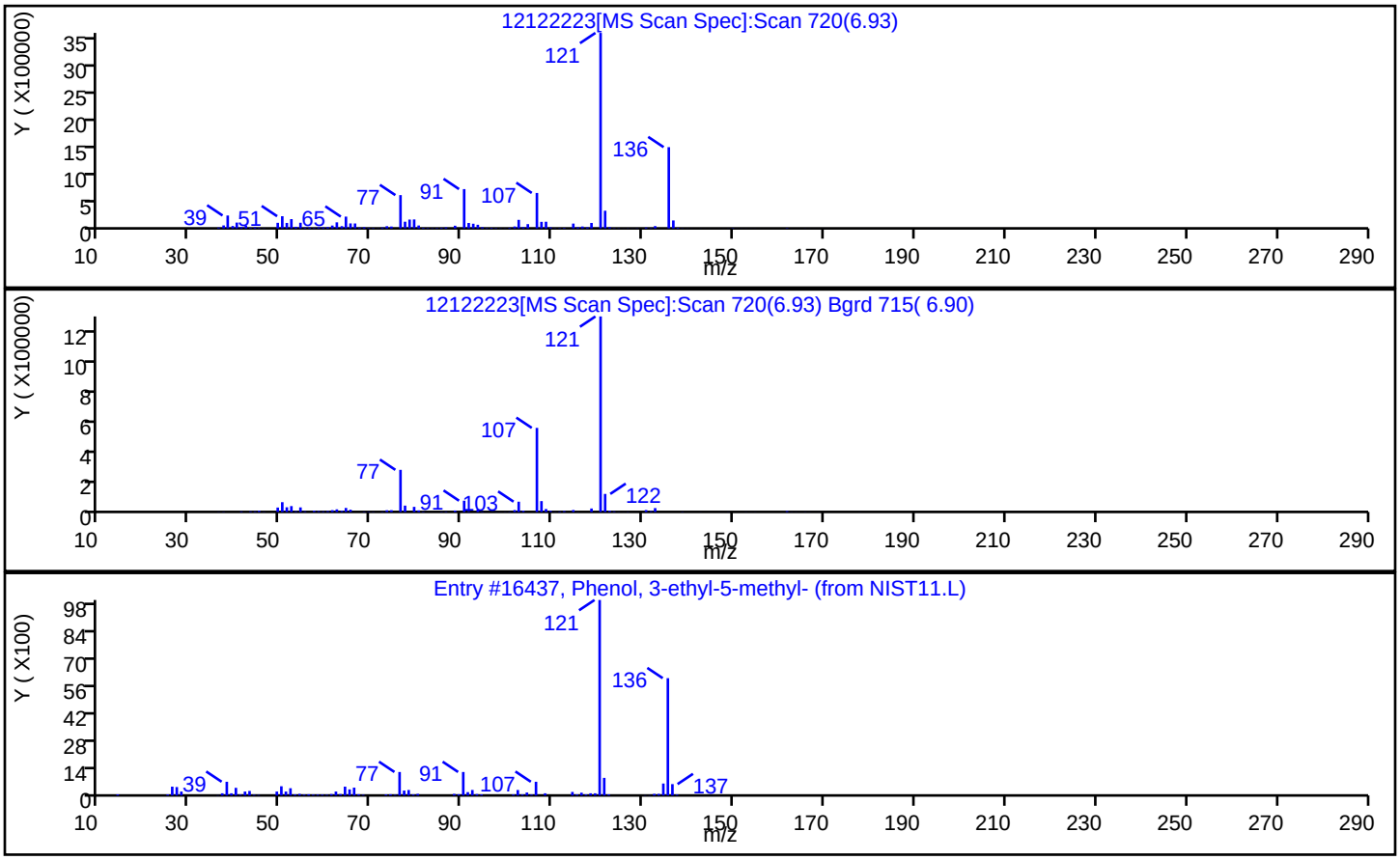


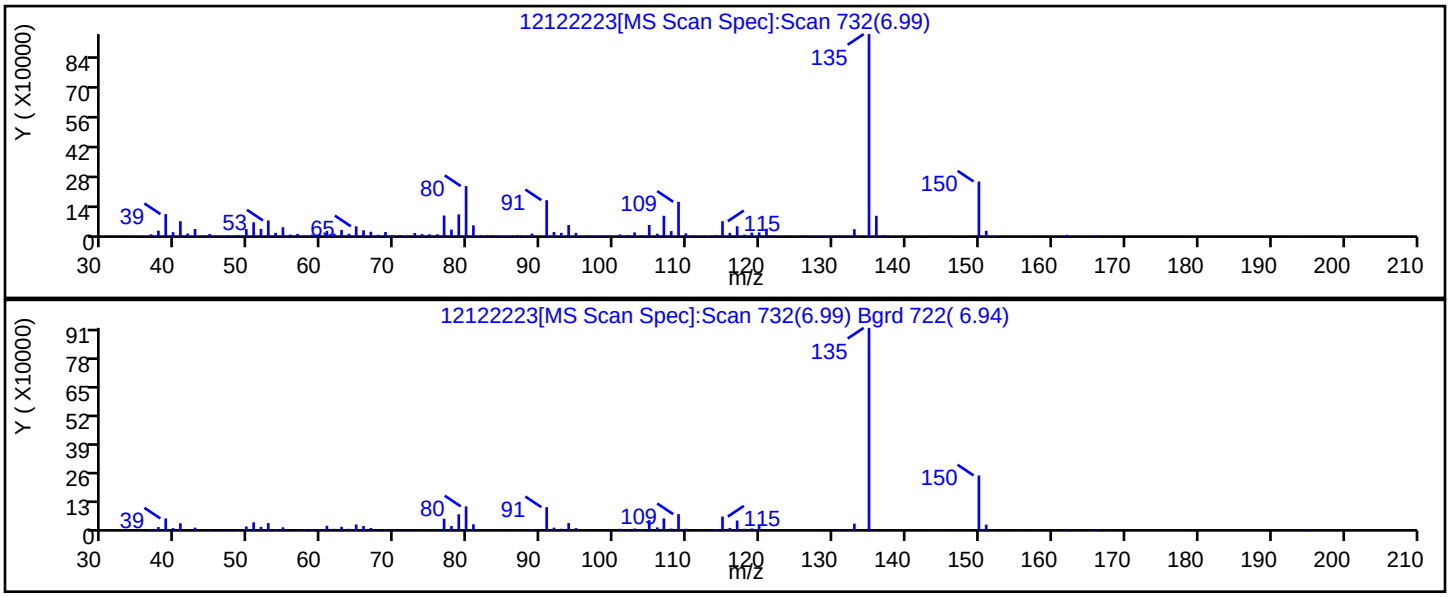
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.987

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



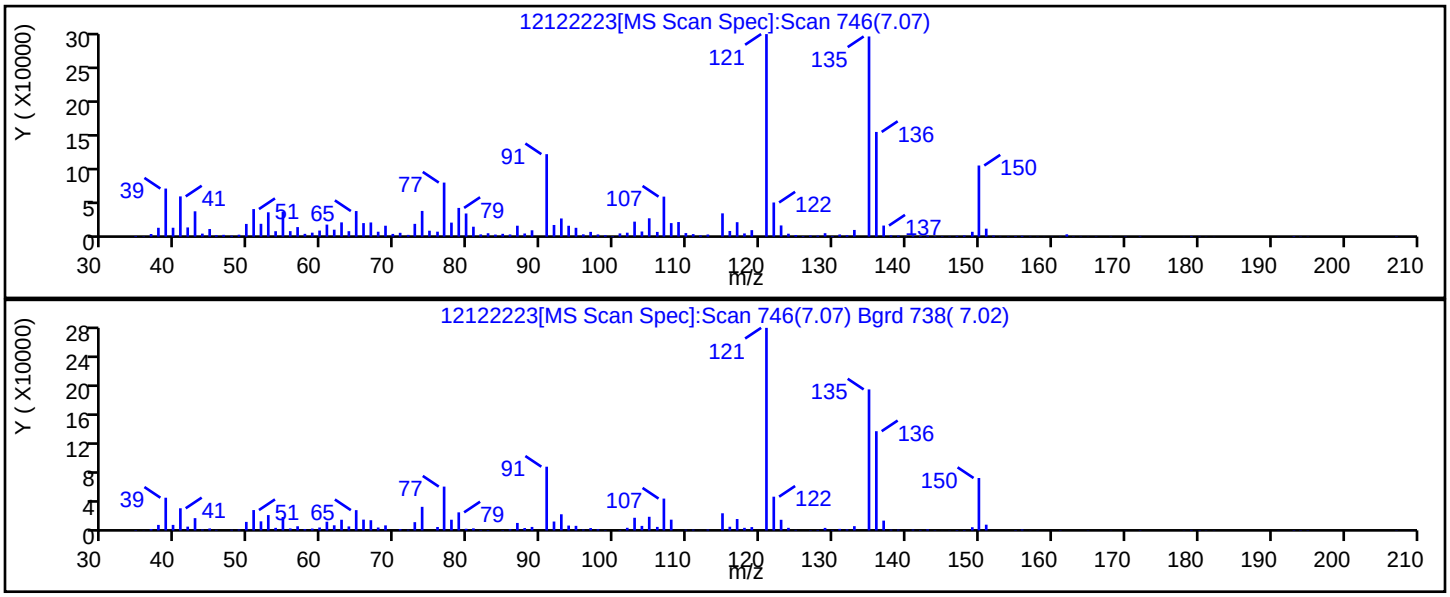
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.062

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



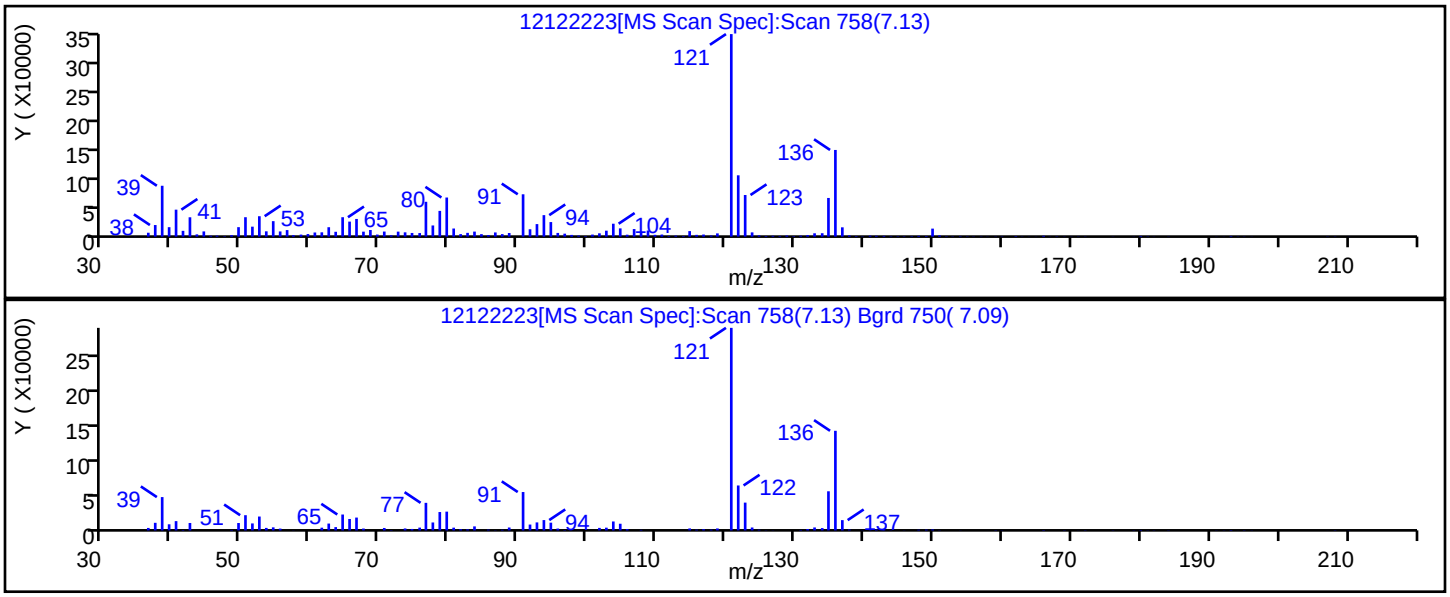
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.126

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



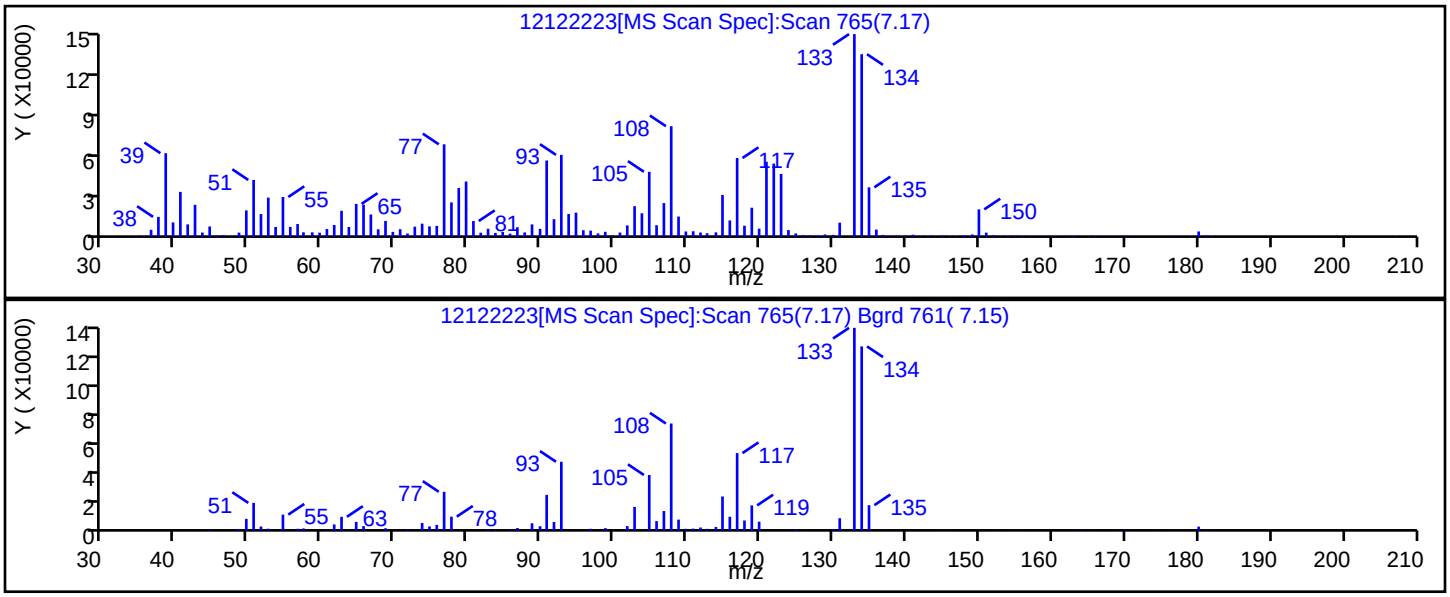
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.163

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



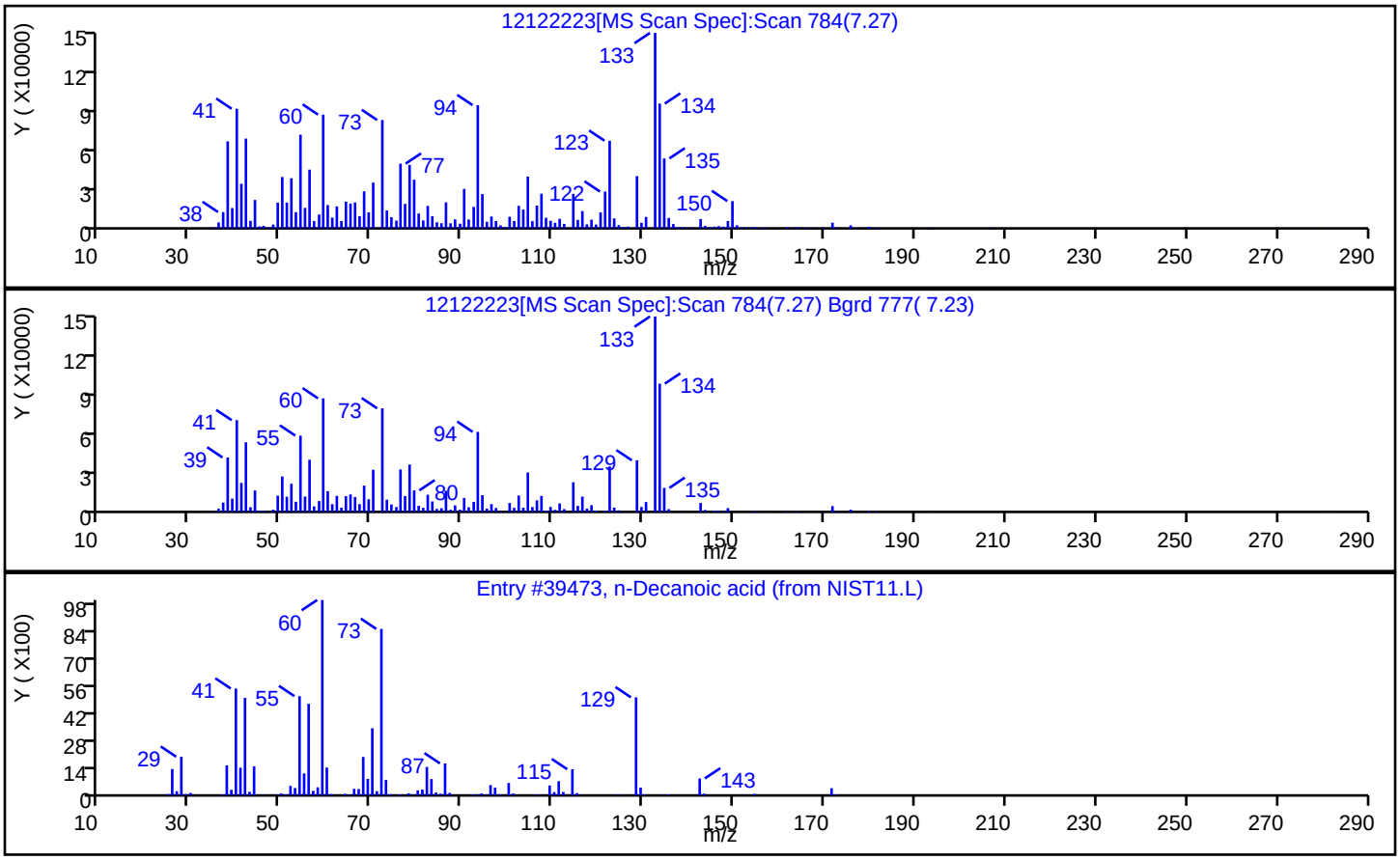
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.265

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
n-Decanoic acid	334-48-5	NIST11	39473	C10H20O2	172	93



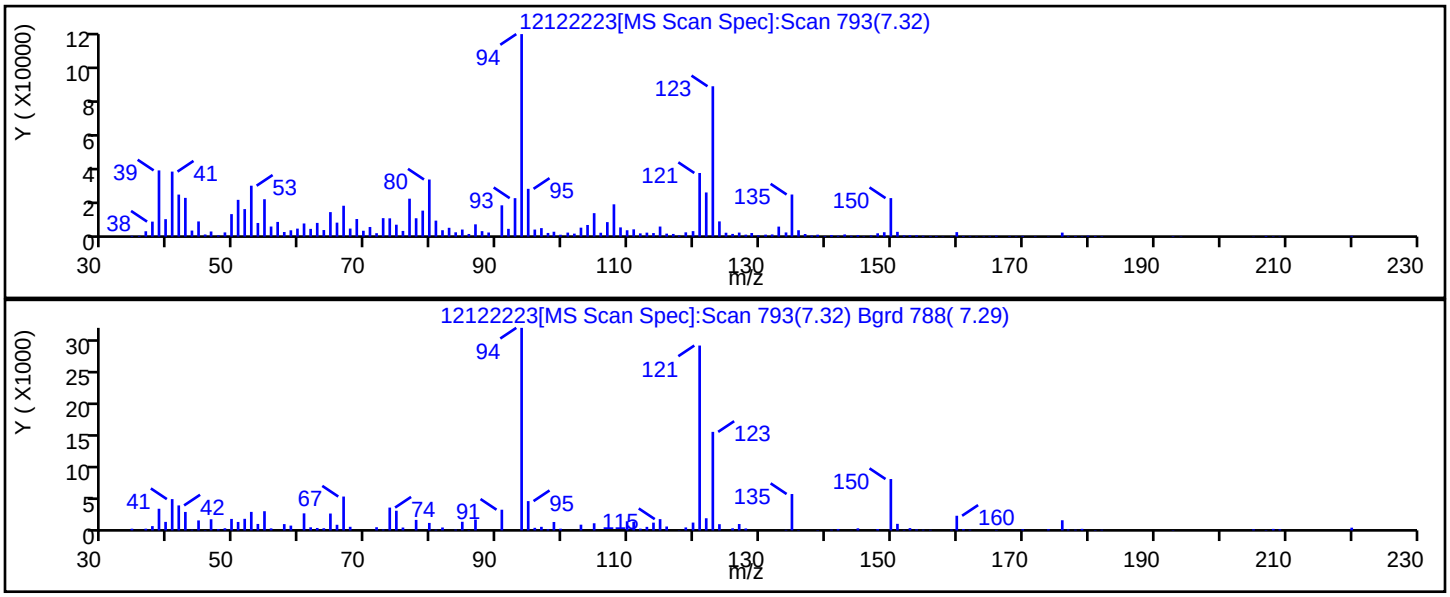
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.313

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



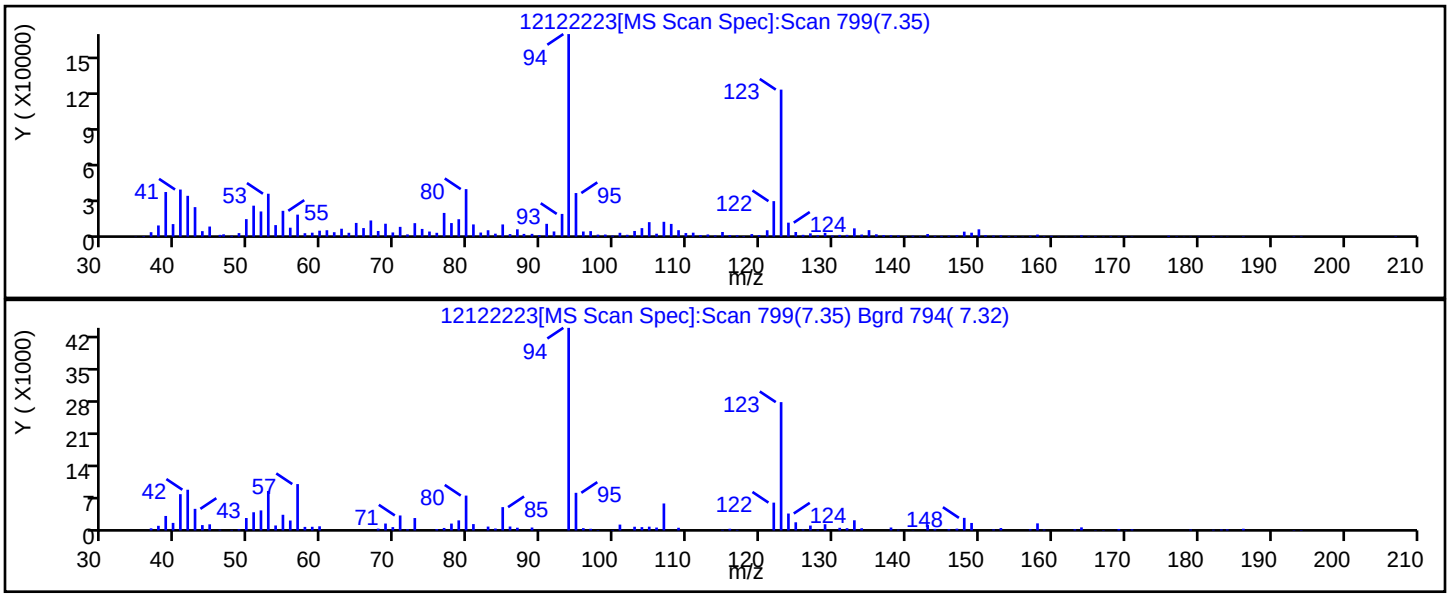
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.345

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



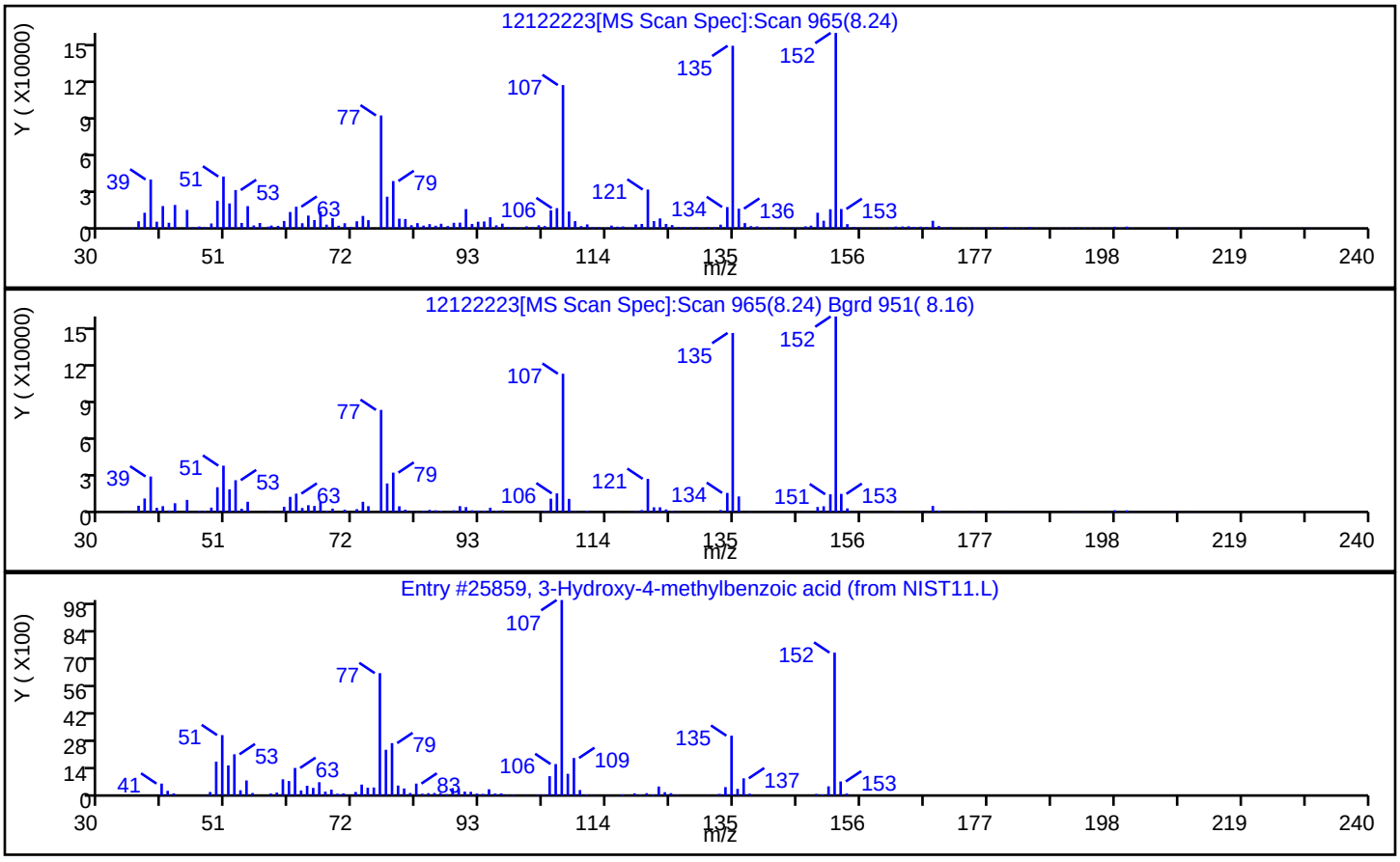
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.232

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
3-Hydroxy-4-methylbenzoic acid	586-30-1	NIST11	25859	C8H8O3	152	90



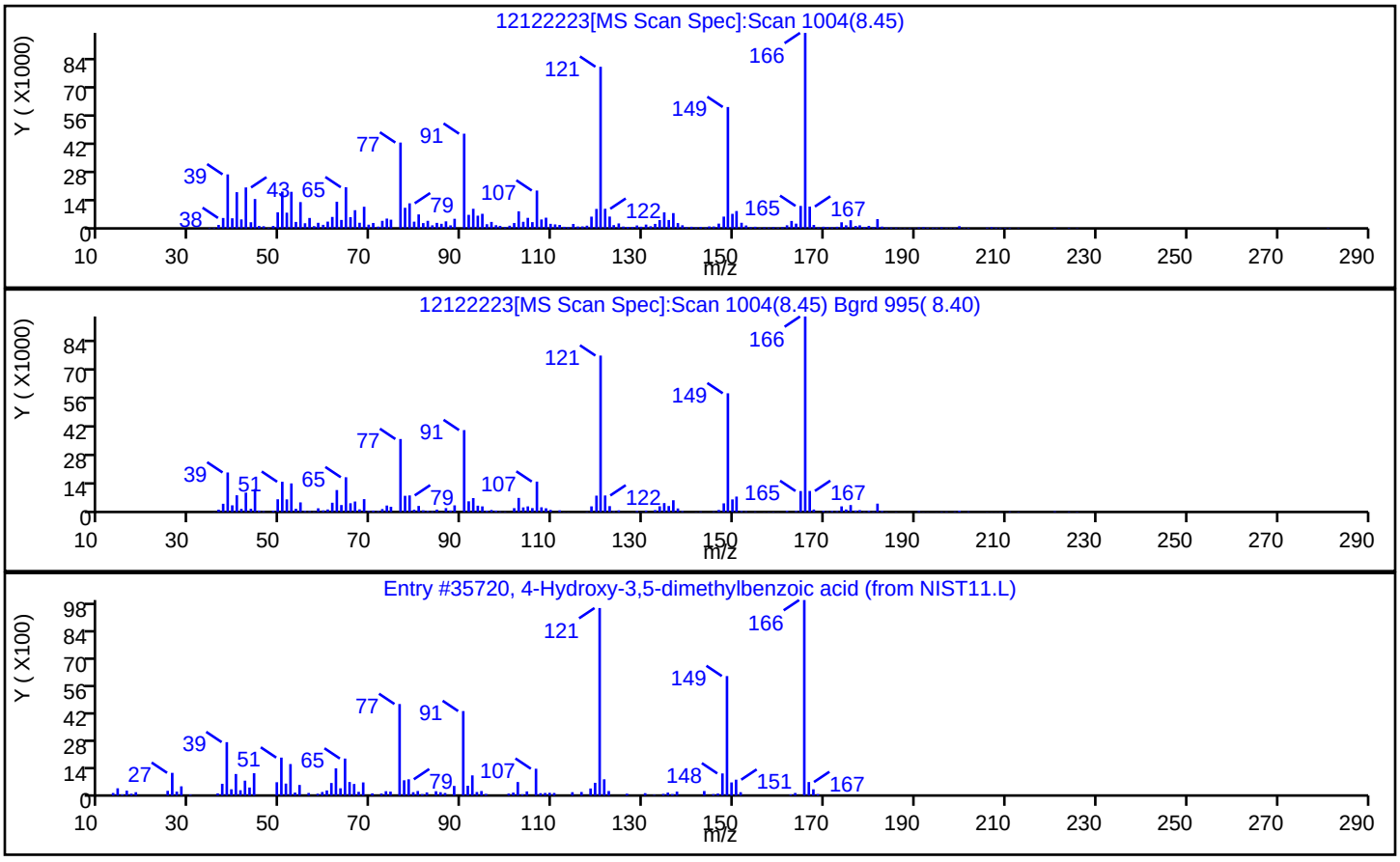
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.440

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
4-Hydroxy-3,5-dimethylbenzoic acid	1000343-25-4	NIST11	35720	C9H10O3	166	93



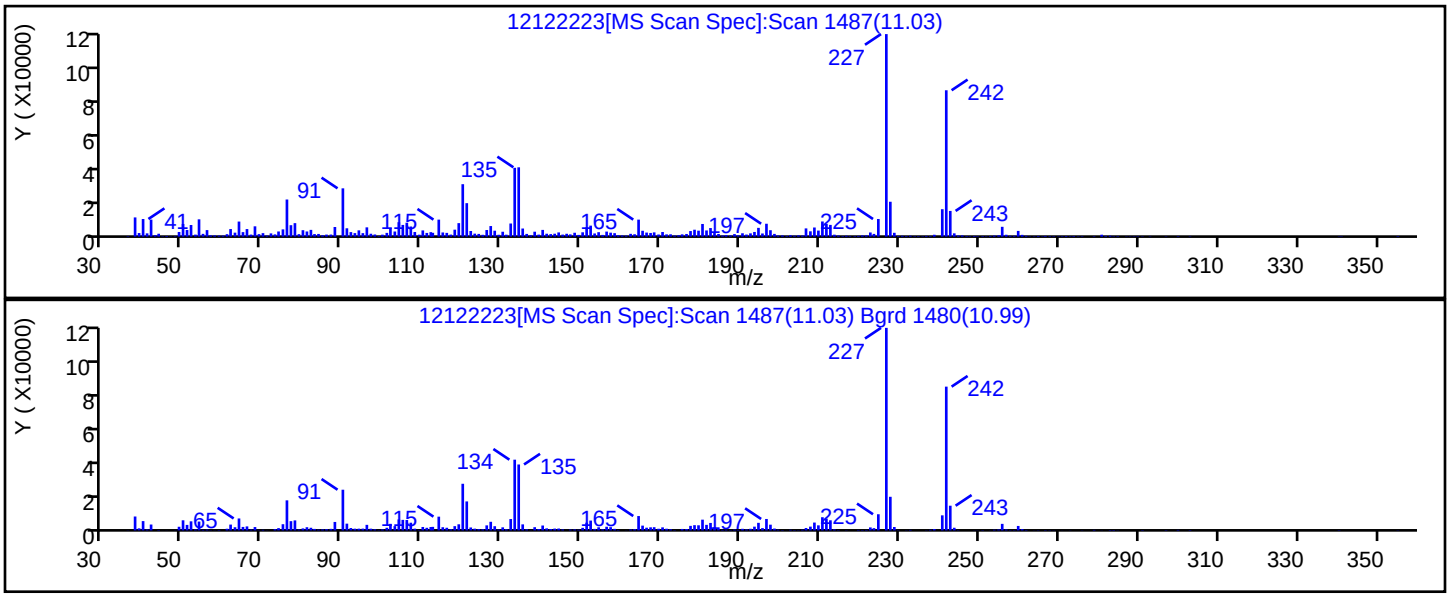
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 11.020

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



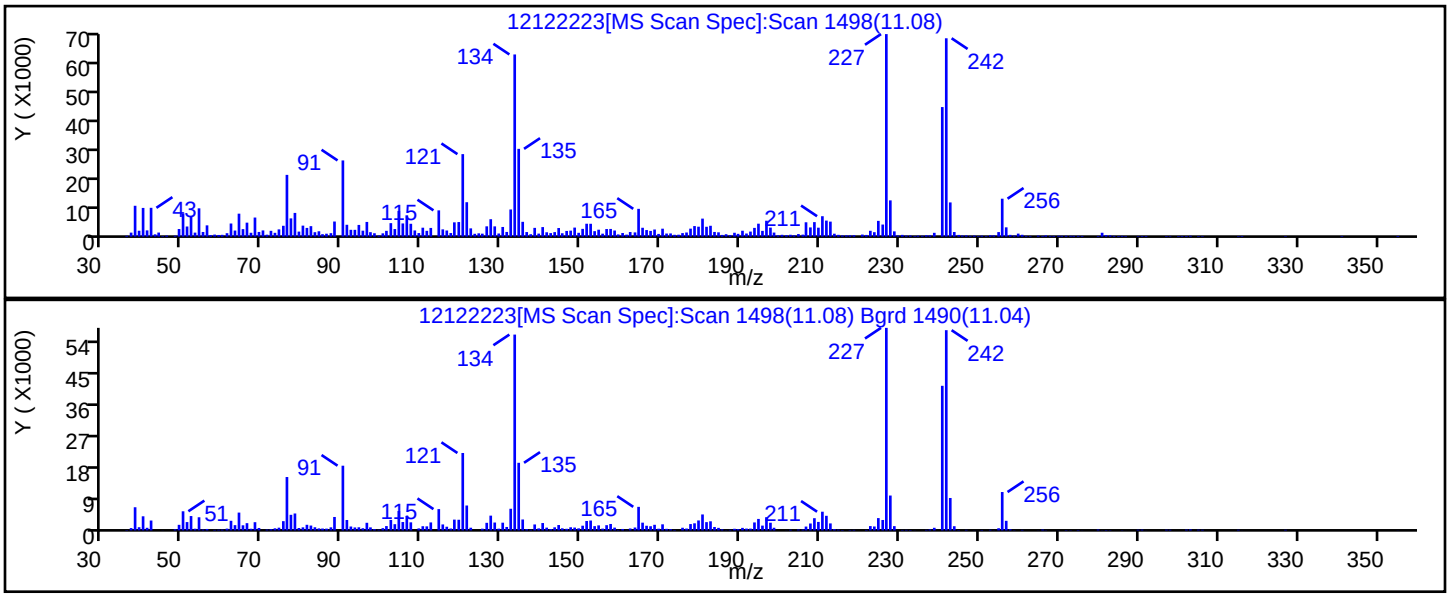
Report Date: 06-Jan-2016 10:09:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 11.079

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



Report Date: 06-Jan-2016 10:09:42 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

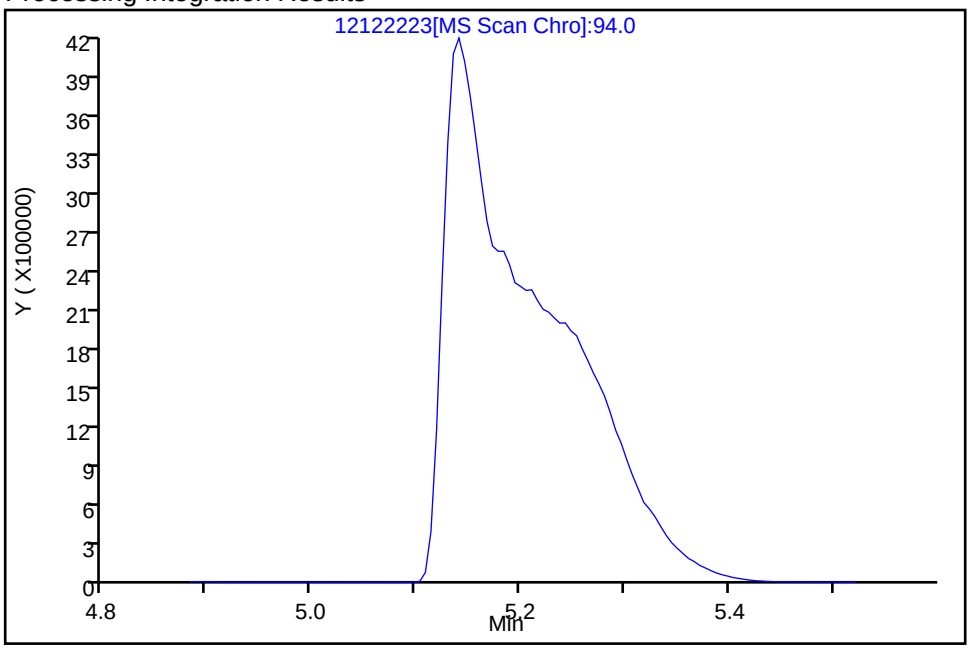
Manual Integration Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122223.D		
Injection Date:	22-Dec-2015 20:02:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122215.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

4 Phenol, CAS: 108-95-2

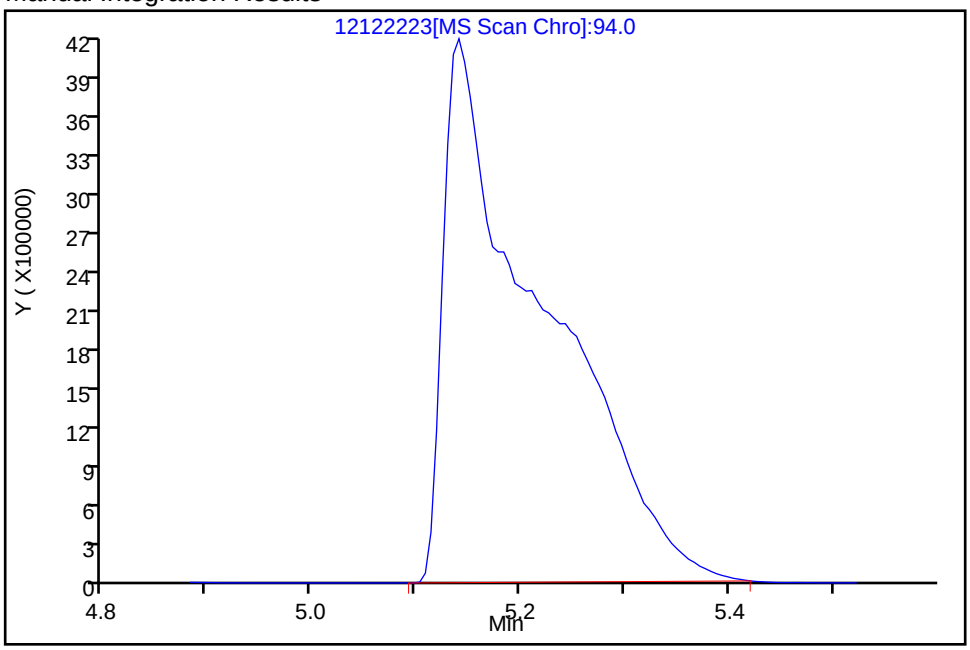
Not Detected
5.134

Processing Integration Results



Manual Integration Results

RT:	5.144
Area:	27219872
Conc:	280733
Conc Units:	ug/L



Data Editor: rbh, 23-Dec-2015 08:54:30
Audit Action: Mint
Audit Reason: IAI

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32DL

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 800 (g/mL) mL Lab File ID: 12122313

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 15000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 1000.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	38000	U
100-52-7	Benzaldehyde	190000	U
108-95-2	Phenol	270000	DB
111-44-4	Bis(2-Chloroethyl) ether	190000	U
95-57-8	2-Chlorophenol	94000	U
95-48-7	2-Methylphenol	1500000	DB
108-60-1	2,2'-Oxybis(1-chloropropane)	190000	U
98-86-2	Acetophenone	190000	U
106-44-5	4-Methylphenol	1200000	DB
621-64-7	N-Nitroso-di-n propylamine	94000	U
67-72-1	Hexachloroethane	94000	U
98-95-3	Nitrobenzene	94000	U
78-59-1	Isophorone	94000	U
88-75-5	2-Nitrophenol	94000	U
105-67-9	2,4-Dimethylphenol	1700000	E DB
111-91-1	Bis(2-chloroethoxy)methane	94000	U
120-83-2	2,4-Dichlorophenol	94000	U
91-20-3	Naphthalene	94000	U
106-47-8	4-Chloroaniline	190000	U
87-68-3	Hexachlorobutadiene	94000	U
105-60-2	Caprolactam	190000	U
59-50-7	4-Chloro-3-methylphenol	94000	U
91-57-6	2-Methylnaphthalene	94000	U
77-47-4	Hexachlorocyclo-pentadiene	190000	U
88-06-2	2,4,6-Trichlorophenol	94000	U
95-95-4	2,4,5-Trichlorophenol	94000	U
92-52-4	1,1'-Biphenyl	94000	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32DL

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 800 (g/mL) mL Lab File ID: 12122313

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 15000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 1000.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	94000	U
88-74-4	2-Nitroaniline	94000	U
131-11-3	Dimethylphthalate	94000	U
606-20-2	2,6-Dinitrotoluene	94000	U
208-96-8	Acenaphthylene	94000	U
99-09-2	3-Nitroaniline	190000	U
83-32-9	Acenaphthene	94000	U
51-28-5	2,4-Dinitrophenol	190000	U
100-02-7	4-Nitrophenol	190000	U
132-64-9	Dibenzofuran	94000	U
121-14-2	2,4-Dinitrotoluene	94000	U
84-66-2	Diethylphthalate	94000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	94000	U
7005-72-3	4-Chlorophenyl-phenyl ether	94000	U
86-73-7	Fluorene	94000	U
100-01-6	4-Nitroaniline	190000	U
534-52-1	4,6-Dinitro-2-methylphenol	190000	U
101-55-3	4-Bromophenyl-phenylether	94000	U
86-30-6	N-Nitrosodiphenylamine	94000	U
118-74-1	Hexachlorobenzene	94000	U
1912-24-9	Atrazine	190000	U
87-86-5	Pentachlorophenol	190000	U
85-01-8	Phenanthrene	94000	U
120-12-7	Anthracene	94000	U
86-74-8	Carbazole	190000	U
84-74-2	Di-n-butylphthalate	94000	U
206-44-0	Fluoranthene	190000	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32DL

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 800 (g/mL) mL Lab File ID: 12122313

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 15000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 1000.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	94000	U
85-68-7	Butylbenzylphthalate	94000	U
91-94-1	3,3'-Dichlorobenzidine	190000	U
56-55-3	Benzo(a)anthracene	94000	U
218-01-9	Chrysene	94000	U
117-81-7	Bis(2-ethylhexyl)phthalate	94000	U
117-84-0	Di-n-octylphthalate	190000	U
205-99-2	Benzo(b)fluoranthene	94000	U
207-08-9	Benzo(k)fluoranthene	94000	U
50-32-8	Benzo(a)pyrene	94000	U
193-39-5	Indeno(1,2,3-cd)pyrene	94000	U
53-70-3	Dibenzo(a,h)anthracene	94000	U
191-24-2	Benzo(g,h,i)perylene	94000	U
58-90-2	2,3,4,6-Tetrachlorophenol	94000	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R32DL

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-002
Sample wt/vol: 800 (g/mL) mL
Lab File ID: 12122313
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/23/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 15000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 10 Dilution Factor: 1000.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	90-00-6	Phenol, 2-ethyl-	6.09	220000	NJ D
02	526-75-0	Phenol, 2,3-dimethyl-	6.34	140000	NJ D
03	95-65-8	Phenol, 3,4-dimethyl-	6.42	230000	NJ D
04	99-89-8	Phenol, 4-(1-methylethyl)-	6.58	140000	NJ D
05	1515-95-3	Benzene, 1-ethyl-4-methoxy-	6.65	160000	NJ D
06	3855-26-3	Phenol, 2-ethyl-4-methyl-	6.67	42000	NJ D
07		Unknown-01	6.74	77000	J D
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Lab Sample ID:	QL16010-002	Client Sample ID:	F6R32
Injection Date:	23-Dec-2015 14:07:30	Dil. Factor:	1000.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QL16010-002		
Misc. Info:	1000X		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	2
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1000.00	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	15000	Volume of final extract (uL)
Vo	800.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 15:23:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0		5.123		ND			
108 1,4-Dioxane	88.0		3.333		ND			
$ 109 1,4-Dioxane-d8	96.0		3.312		ND			
4 Phenol	94.0	5.128	5.133	-0.005	492709	14.487	271627	
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.128	5.192	-0.064	15210	0.72039	13507	QeR
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0		5.299		ND			
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	341751	20.000	375000	
10 2-Methylphenol	108.0	5.614	5.614	0.000	1852976	80.523	1509807	
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0		5.710		ND			
14 4-Methylphenol	108.0	5.731	5.737	-0.006	1643179	65.818	1234092	
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0		5.913		ND			
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	2455007	88.642	1662046	E
$ 95 2-Nitrophenol-d4	143.0		6.175		ND			
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			

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Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122313.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0		6.367		ND			
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.511	6.517	-0.006	1468321	20.000	375000	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0		6.544		ND			
25 4-Chloroaniline	127.0		6.554		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.923		ND			
29 2-Methylnaphthalene	142.0		7.105		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.243		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0		7.687		ND			
37 Dimethylphthalate	163.0		7.708		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.991	7.874	0.117	317699	4.7765	89559	QeR
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.991	7.997	-0.006	769607	20.000	375000	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.029		ND			
$ 100 4-Nitrophenol-d4	143.0		8.039		ND			
44 4-Nitrophenol	109.0		8.045		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.429		ND			
$ 101 Fluorene-d10	176.0		8.435		ND			
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0		8.472		ND			
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.851		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.274	-0.011	1170392	20.000	375000	
59 Phenanthrene	178.0		9.295		ND			
$ 103 Anthracene-d10	188.0	9.263	9.322	-0.059	1161647	19.468	365030	R
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.669		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0		10.641		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
64 Pyrene	202.0		10.663		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.009		ND			
68 3,3'-Dichlorobenzidine	252.0		12.073		ND			
67 Benzo(a)anthracene	228.0		12.164		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1464194	20.000	375000	
70 Chrysene	228.0		12.222		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.814		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.445	14.322	0.123	1446542	20.717	388449	QR
75 Benzo(a)pyrene	252.0		14.375		ND			
* 76 Perylene-d12	264.0	14.445	14.466	-0.021	1440351	20.000	375000	
77 Indeno(1,2,3-cd)pyrene	276.0		16.630		ND			
78 Dibenzo(a,h)anthracene	278.0		16.635		ND			
79 Benzo(g,h,i)perylene	276.0		17.271		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit
E - Compound Concentration Exceeds Max. Calibration Range
Q - Qualifier Signal(s) Fails Ratio Test
R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Lab Sample ID:	QL16010-002	Client Sample ID:	F6R32
Injection Date:	23-Dec-2015 14:07:30	Dil. Factor:	1000.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QL16010-002		
Misc. Info:	1000X		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	2
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1000.00	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	15000	Volume of final extract (uL)
Vo	800.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 15:23:30

Tentative Identified Compound Results

RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	90-00-6	Phenol, 2-ethyl-						
6.089	1825843	11.643	218300	23	95	9907	C8H10O	122
	526-75-0	Phenol, 2,3-dimethyl-						
6.335	1165117	7.4295	139303	23	97	9924	C8H10O	122
	95-65-8	Phenol, 3,4-dimethyl-						
6.415	1920397	12.246	229605	23	97	9935	C8H10O	122
	99-89-8	Phenol, 4-(1-methylethyl)-						
6.576	1172841	7.4787	140227	23	95	16444	C9H12O	136
	1515-95-3	Benzene, 1-ethyl-4-methoxy-						
6.645	1331667	8.4915	159216	23	91	16470	C9H12O	136
	3855-26-3	Phenol, 2-ethyl-4-methyl-						
6.672	348368	2.2214	41651	23	91	16433	C9H12O	136
		Unknown						
6.741	640145	4.0820	76537	23				

Quant. Compounds	RT	Response	Amount ng/ul
* 23 Naphthalene-d8	6.511	3136465	20.000

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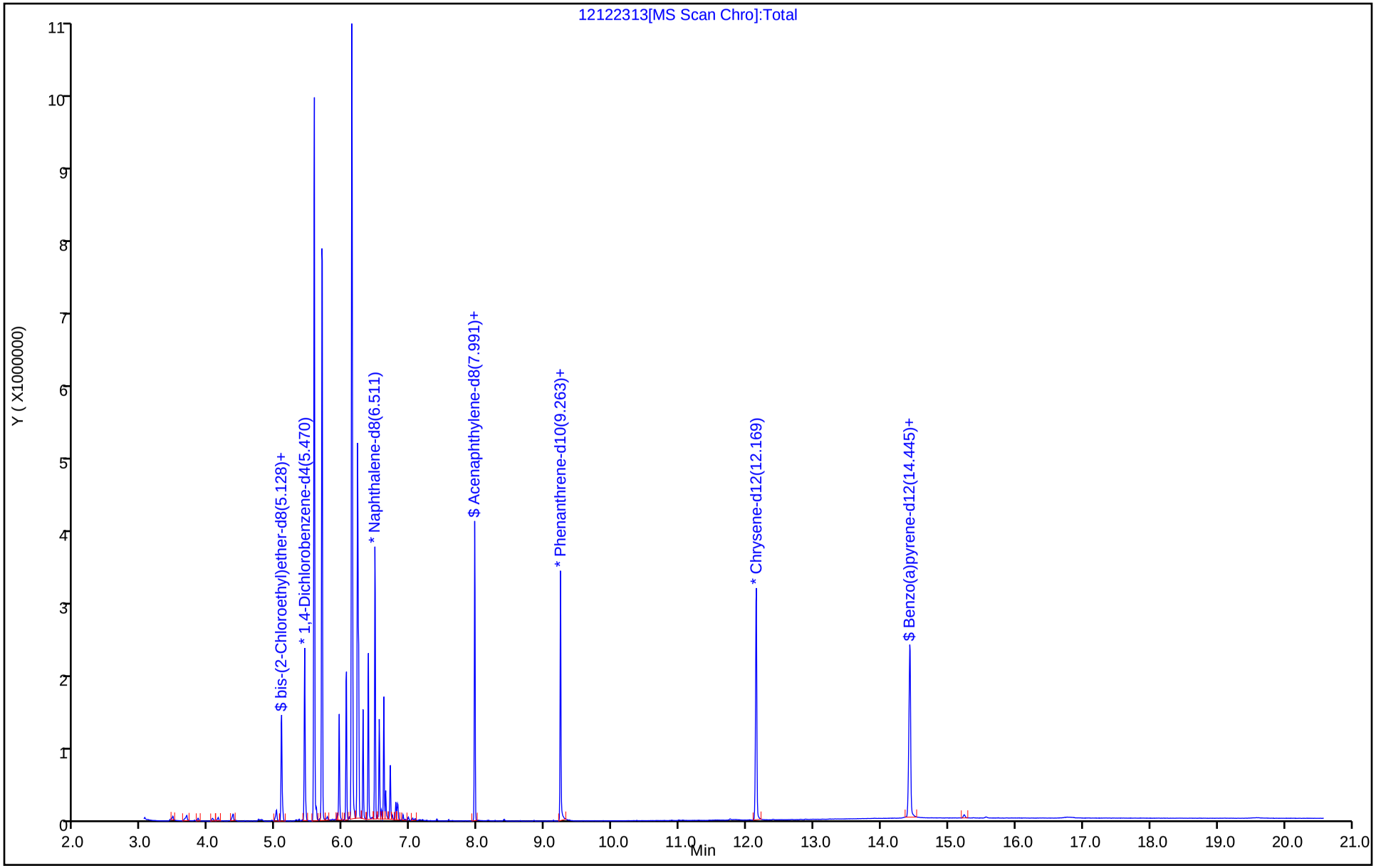
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D				
Injection Date:	23-Dec-2015 14:07:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R32	Lab ID:	QL16010-002		
Sample Info:	12122315.b, QL16010-002				
Injection Vol.	1.00 1	Dil. Factor:	1000.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

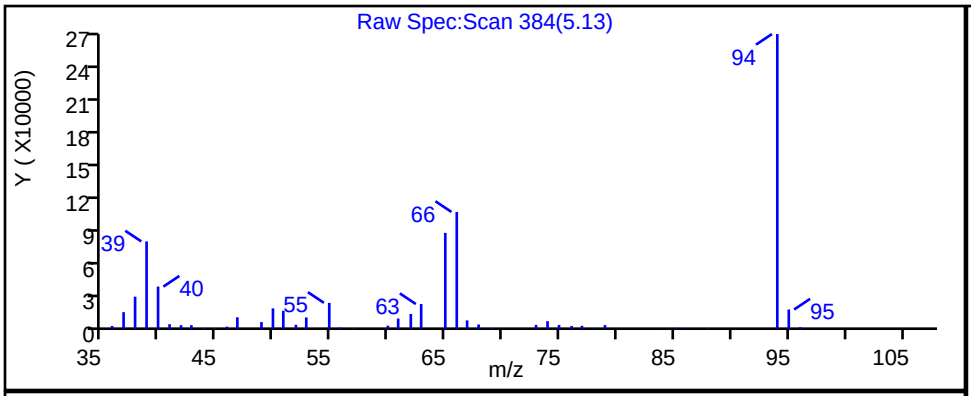


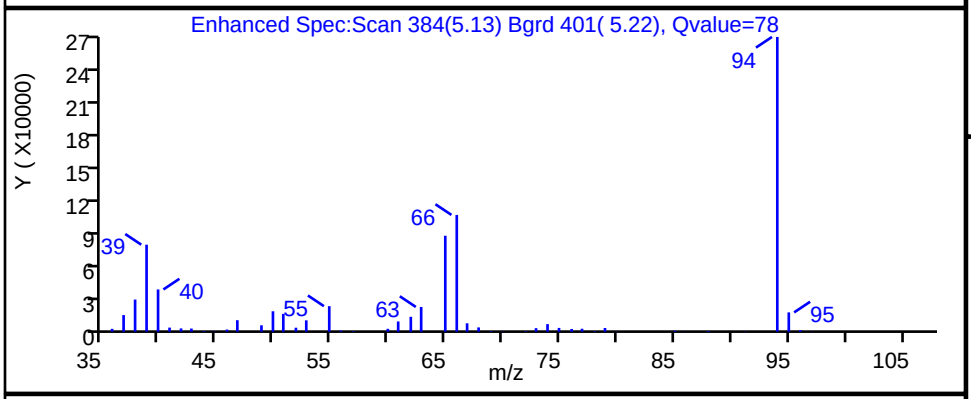
Report Date: 23-Dec-2015 16:08:37 AIM Revision: 1.0 26-May-2015 13:41:26

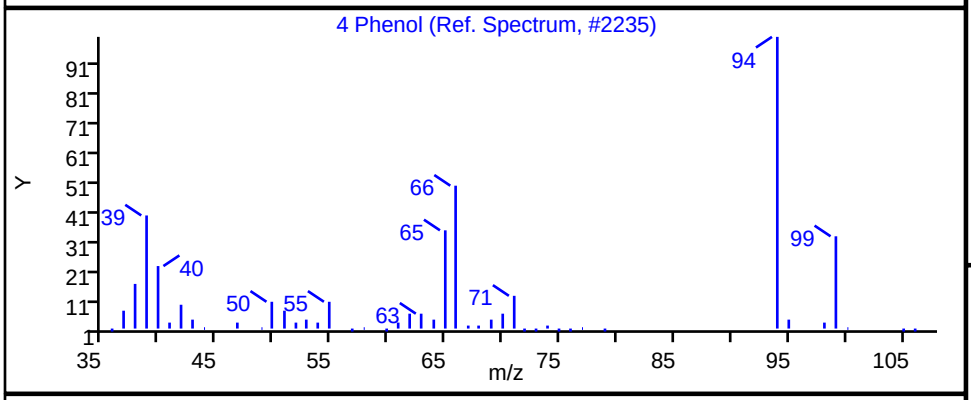
Shealy Environmental Services

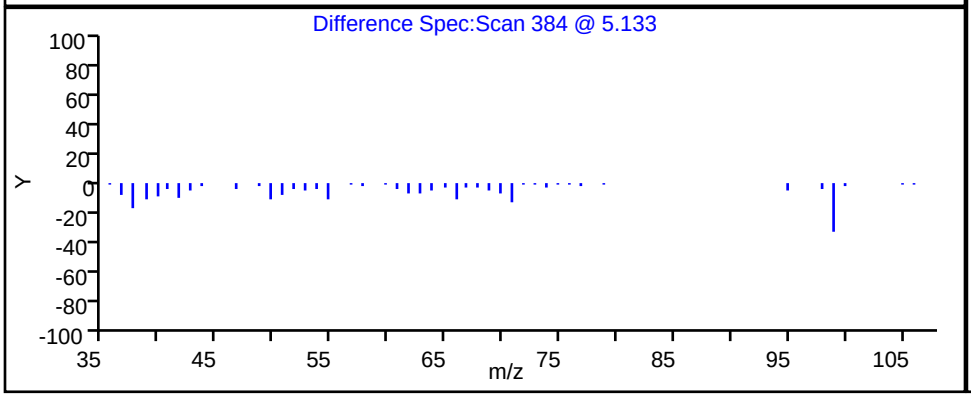
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Injection Date:	23-Dec-2015 14:07:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	1000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

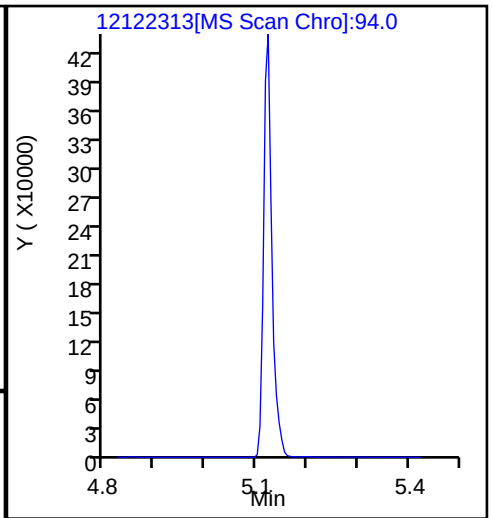
4 Phenol

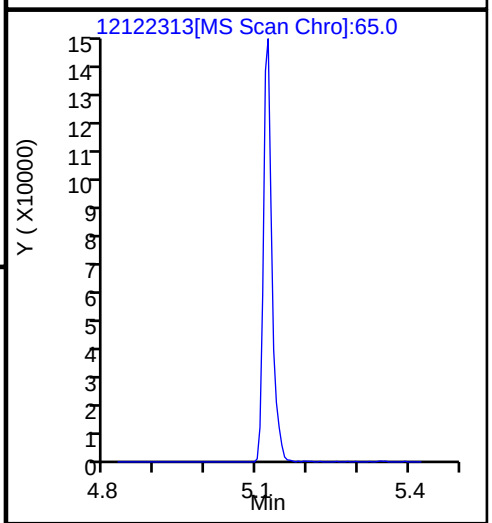


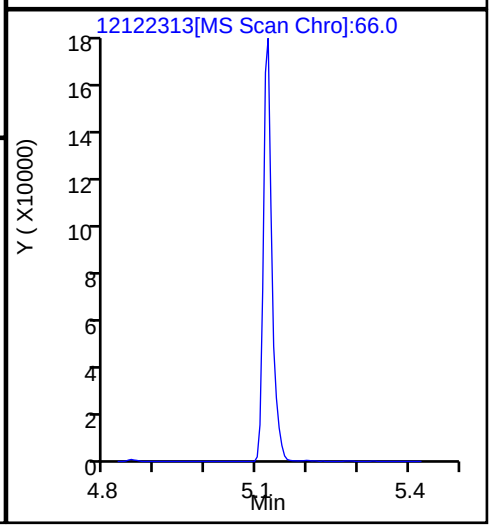












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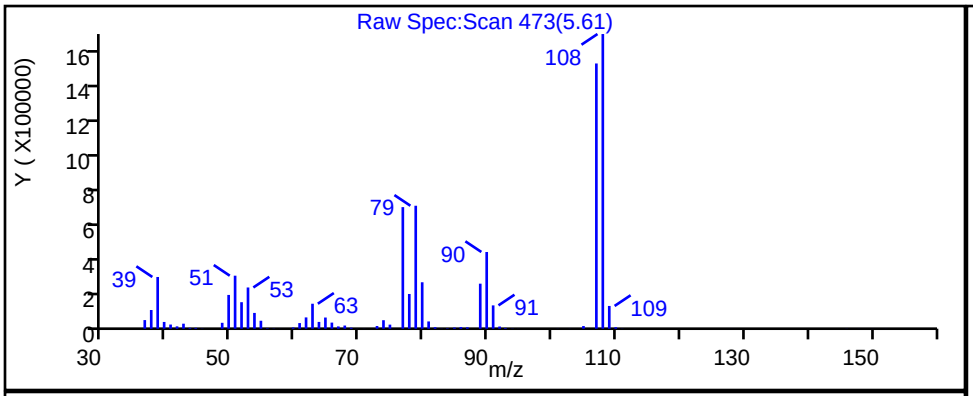
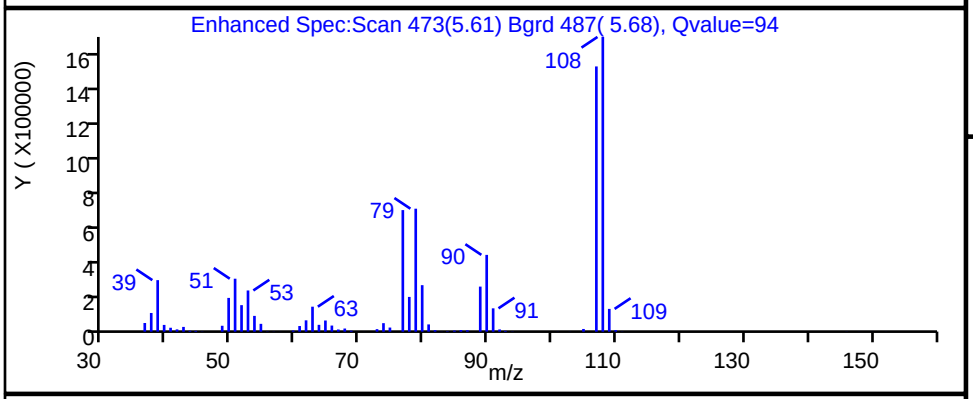
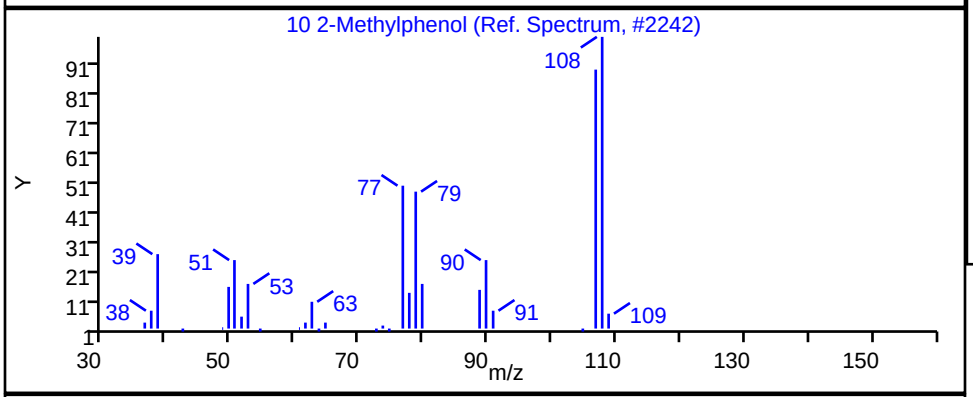
Shealy Environmental Services

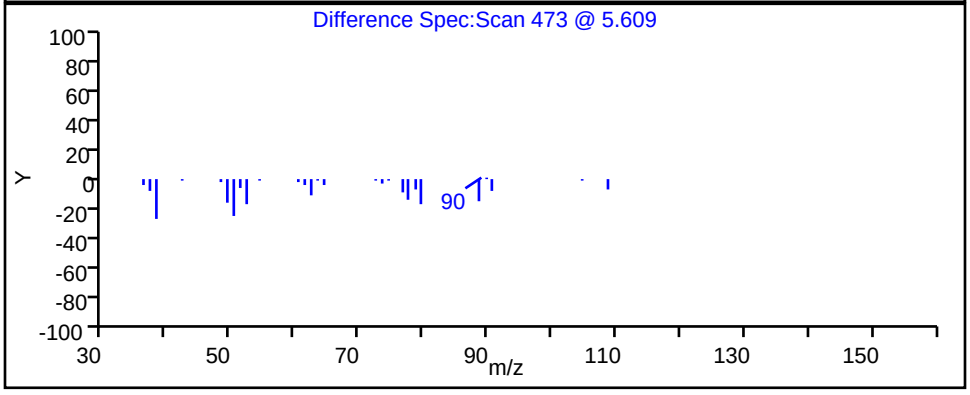
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Injection Date:	23-Dec-2015 14:07:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	1000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

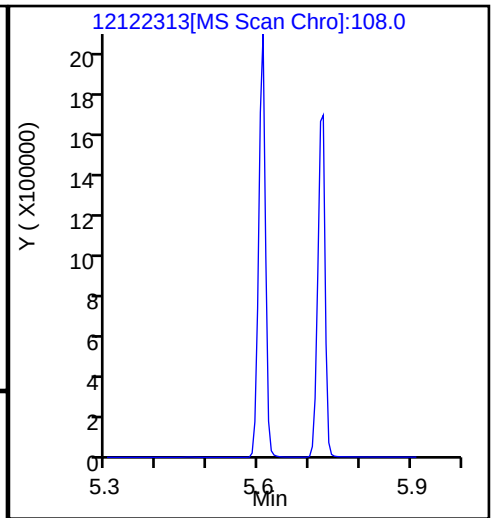
10 2-Methylphenol

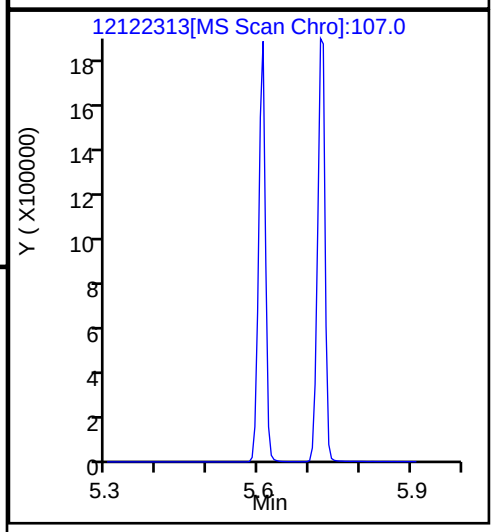












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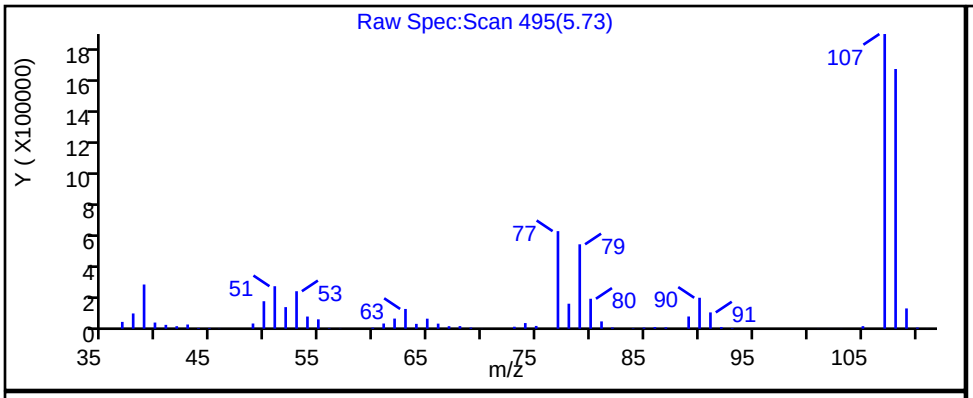
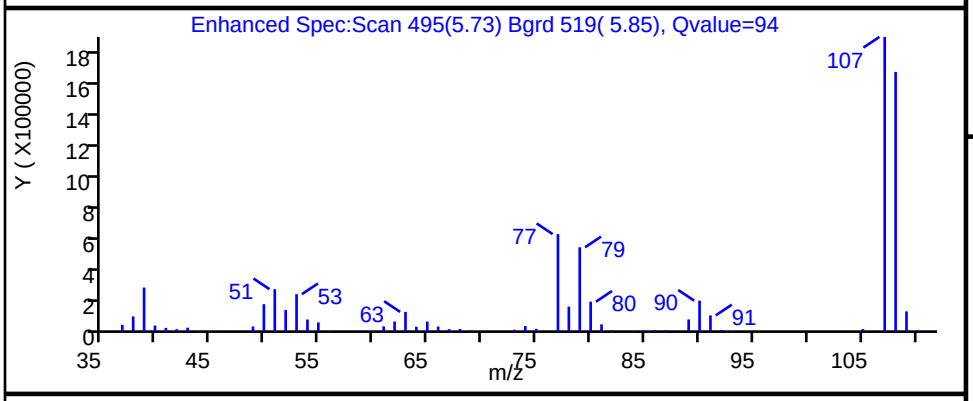
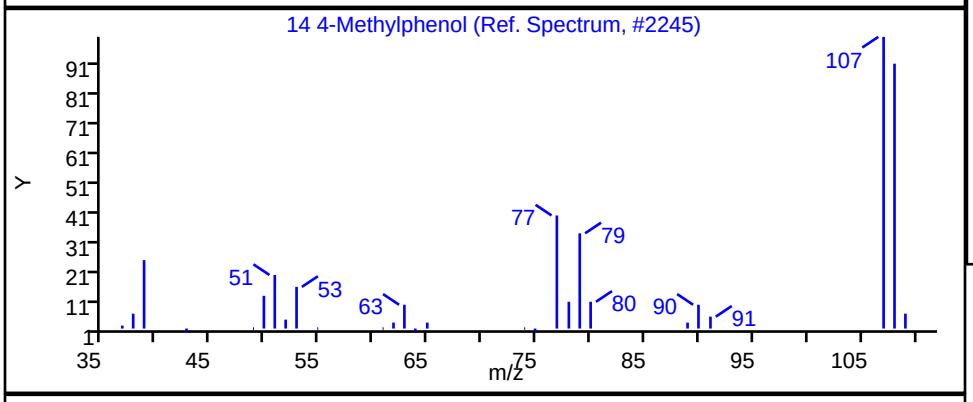
Shealy Environmental Services

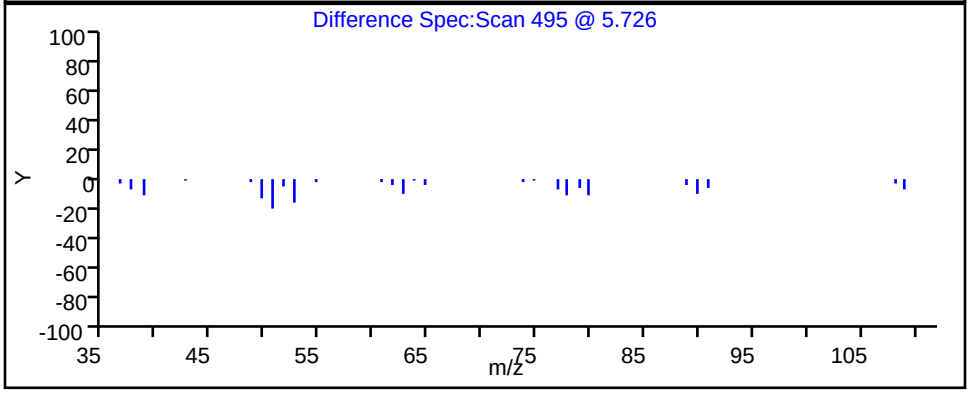
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Injection Date:	23-Dec-2015 14:07:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	1000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

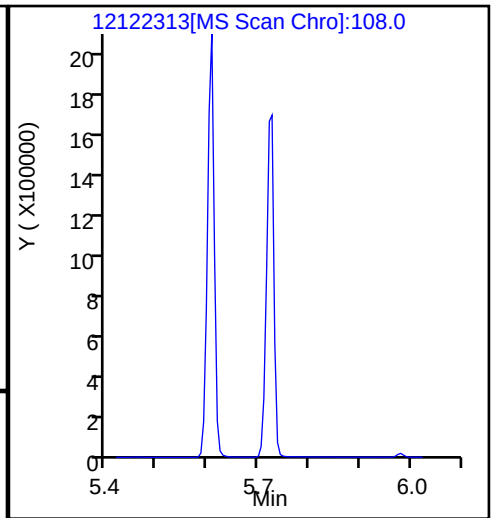
14 4-Methylphenol

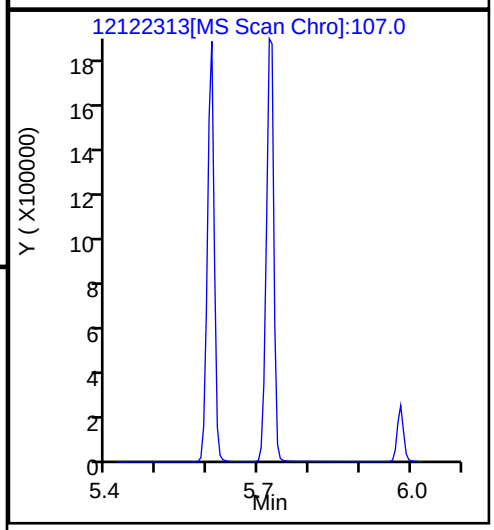










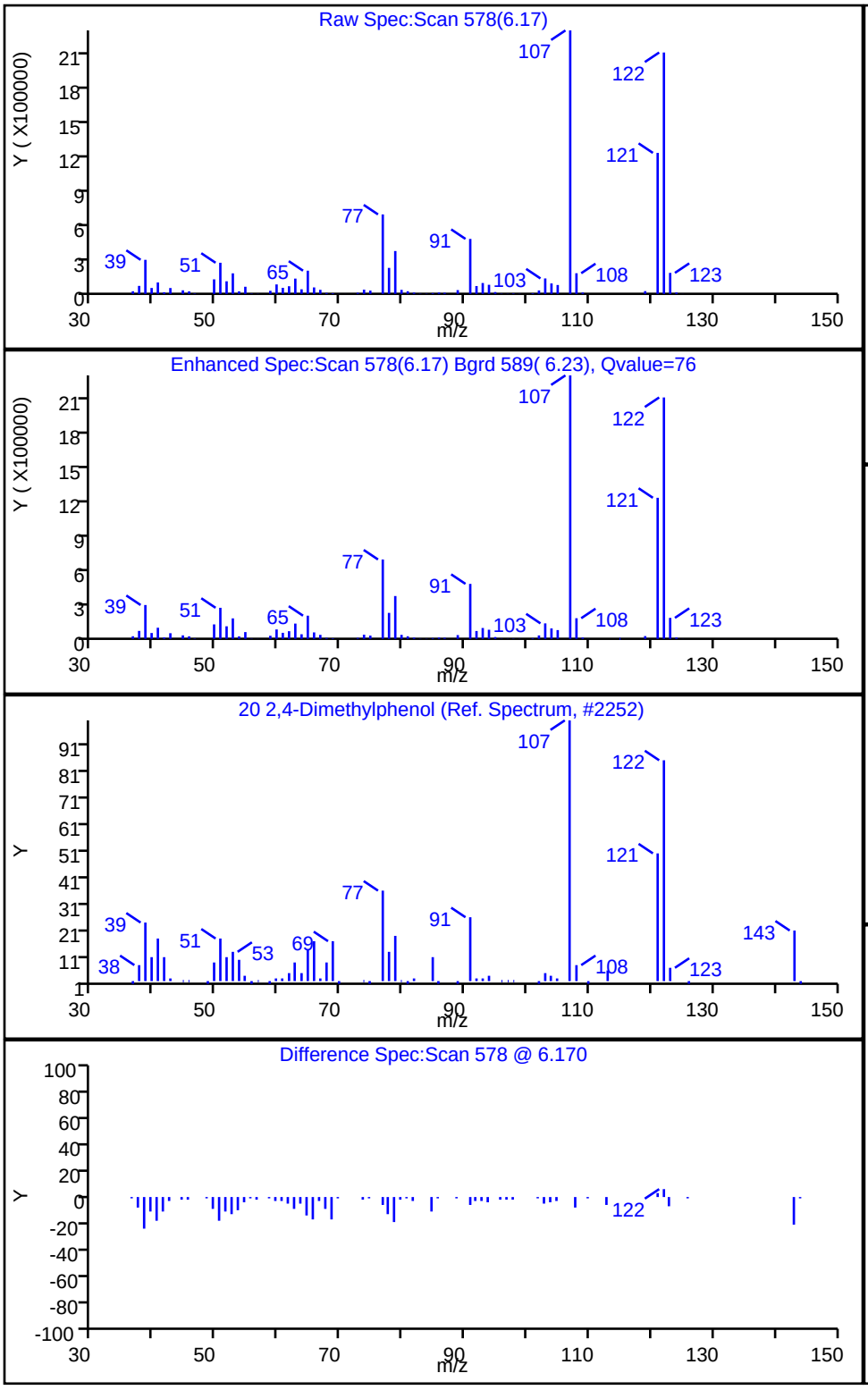


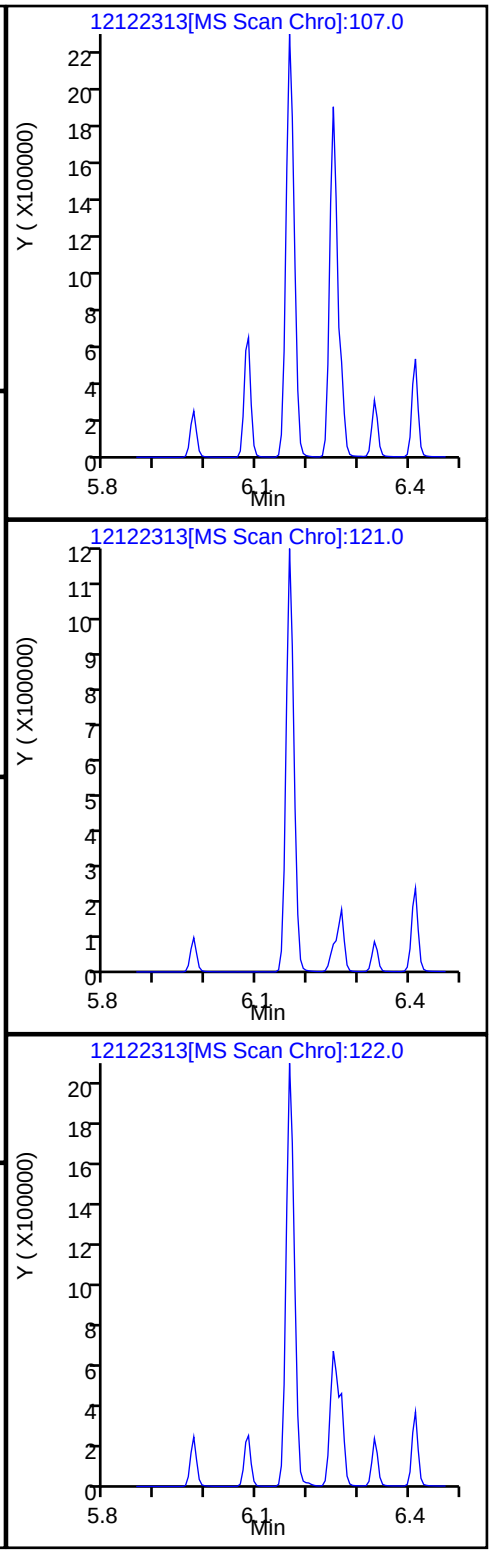
Report Date: 23-Dec-2015 16:08:37 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Injection Date:	23-Dec-2015 14:07:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	1000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

20 2,4-Dimethylphenol





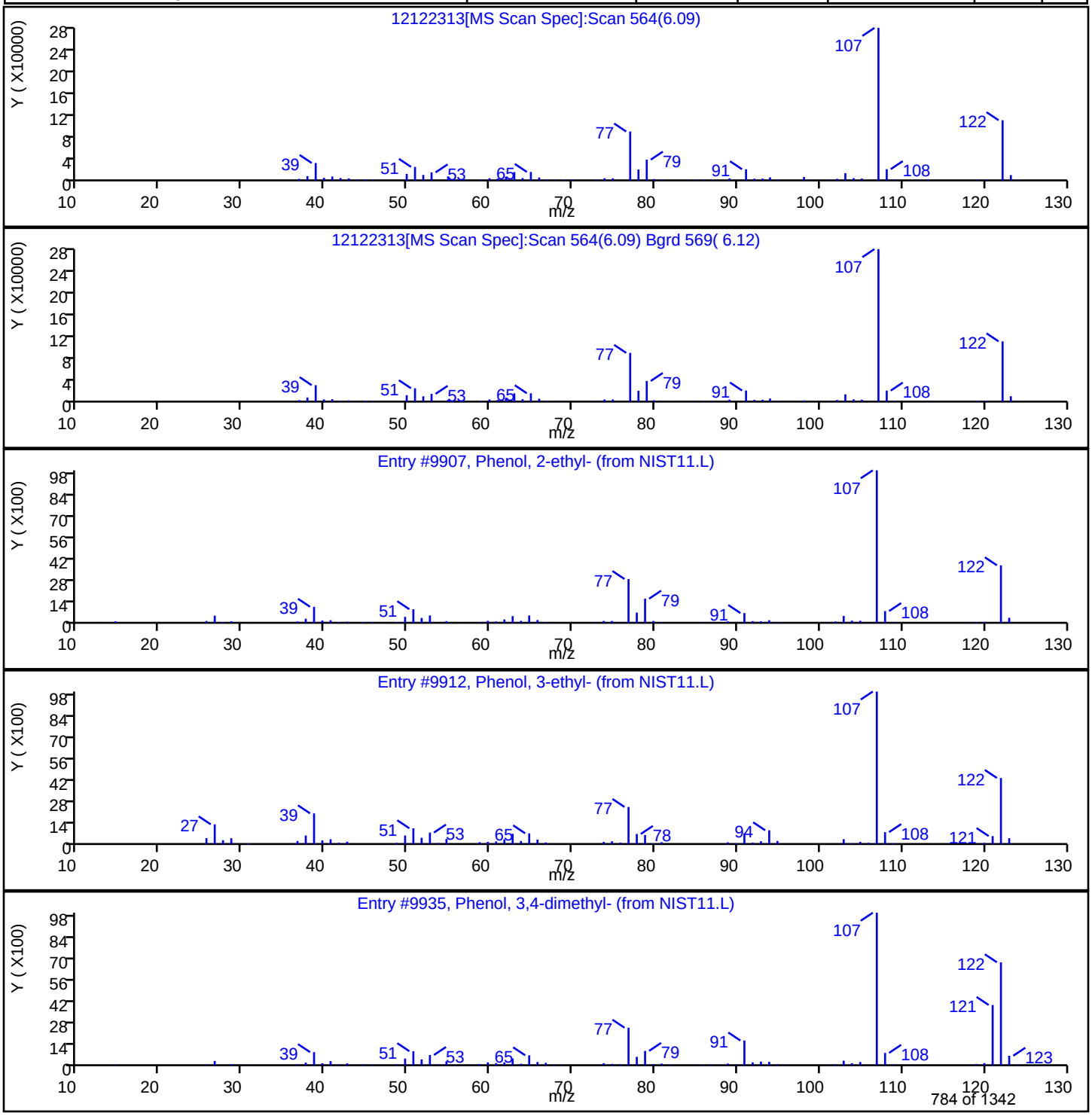
Report Date: 23-Dec-2015 16:08:37 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Injection Date:	23-Dec-2015 14:07:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	1000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.089

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	95
Phenol, 3-ethyl-	620-17-7	NIST11	9912	C8H10O	122	91
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9935	C8H10O	122	91



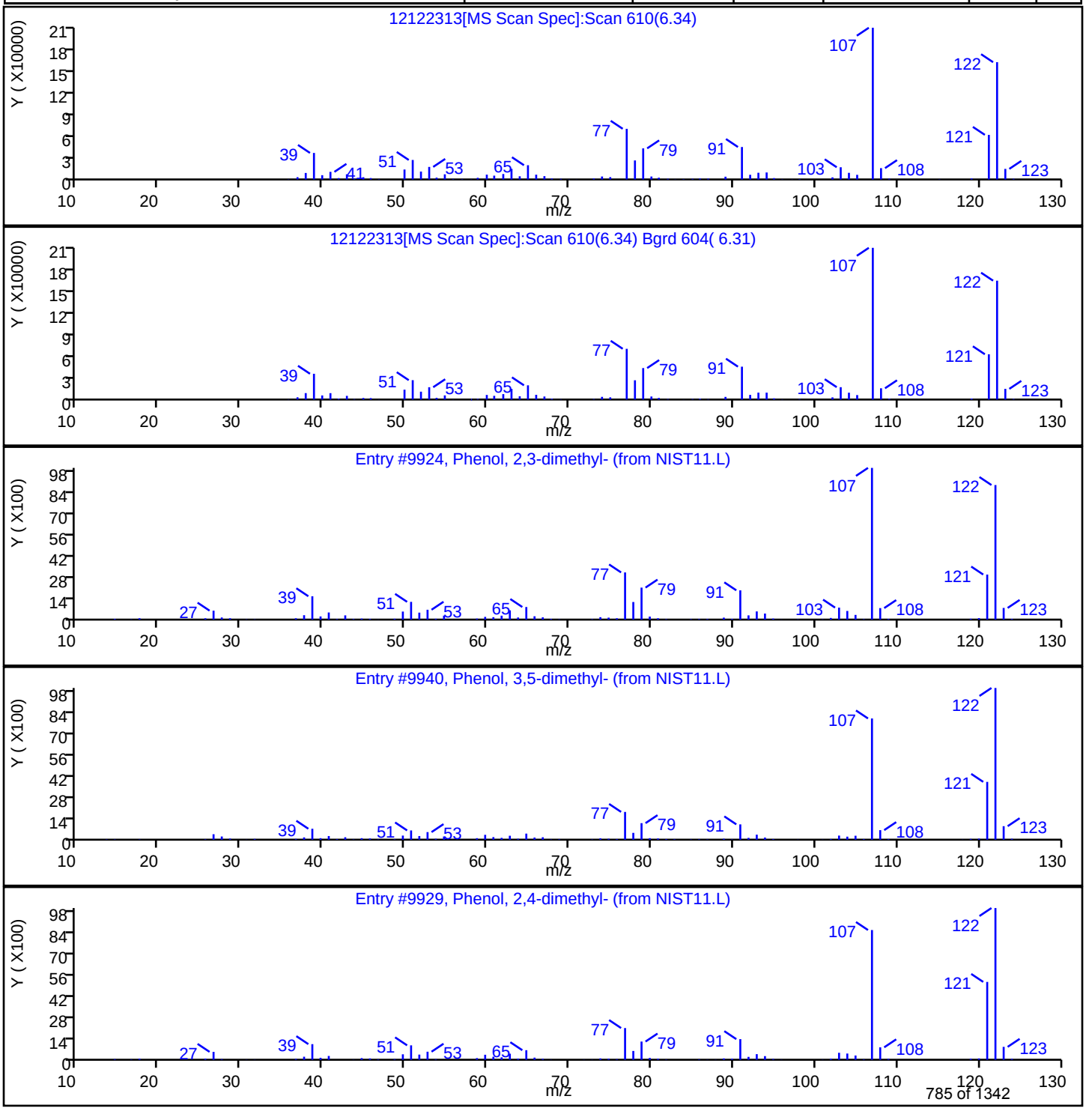
Report Date: 23-Dec-2015 16:08:37 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Injection Date:	23-Dec-2015 14:07:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	1000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.335

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9924	C8H10O	122	97
Phenol, 3,5-dimethyl-	108-68-9	NIST11	9940	C8H10O	122	96
Phenol, 2,4-dimethyl-	105-67-9	NIST11	9929	C8H10O	122	96



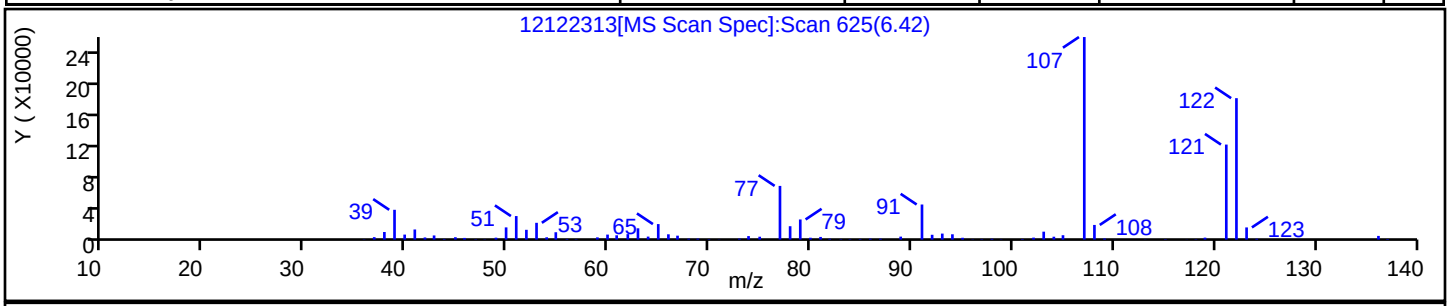
Report Date: 23-Dec-2015 16:08:37 AIM Revision: 1.0 26-May-2015 13:41:26

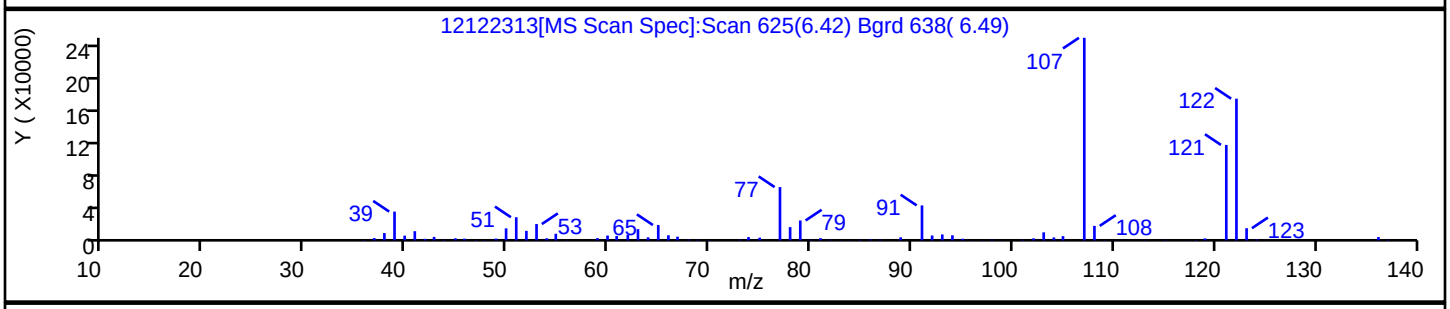
Shealy Environmental Services

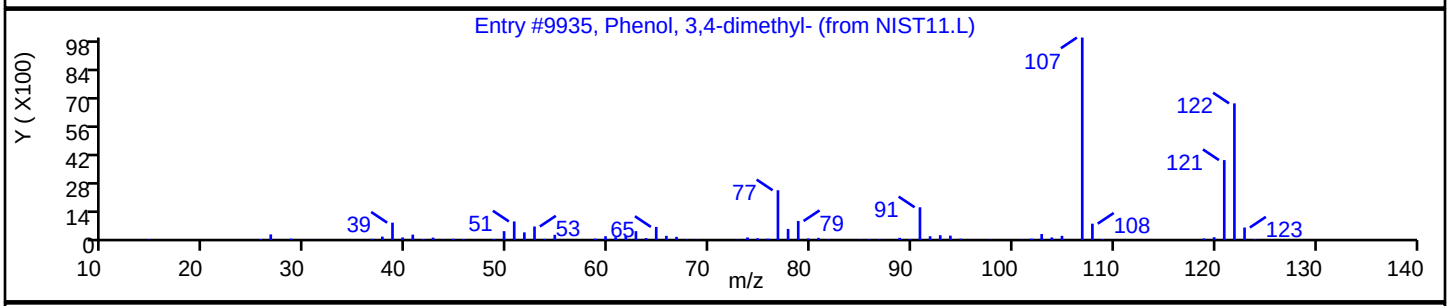
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Injection Date:	23-Dec-2015 14:07:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	1000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

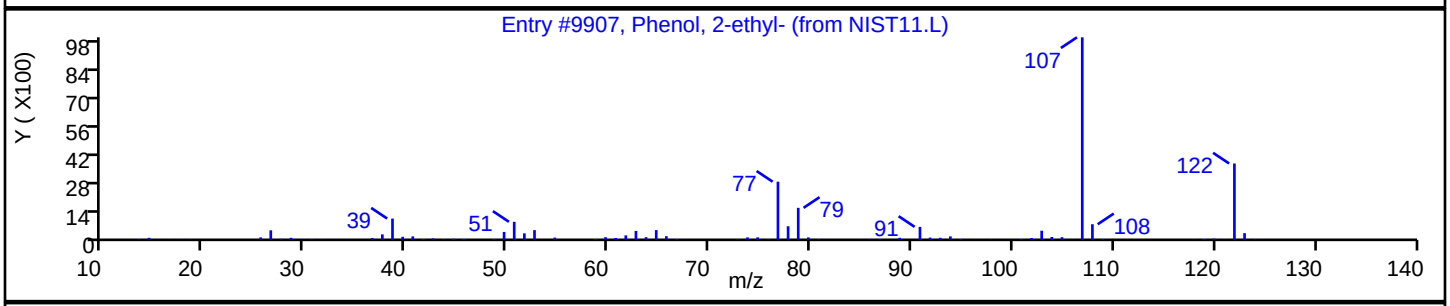
TIC @ 6.415

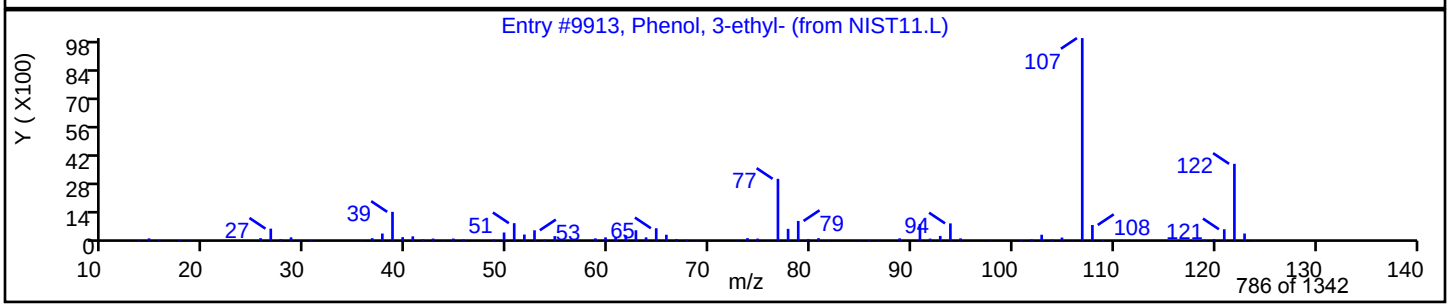
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9935	C8H10O	122	97
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	93
Phenol, 3-ethyl-	620-17-7	NIST11	9913	C8H10O	122	90











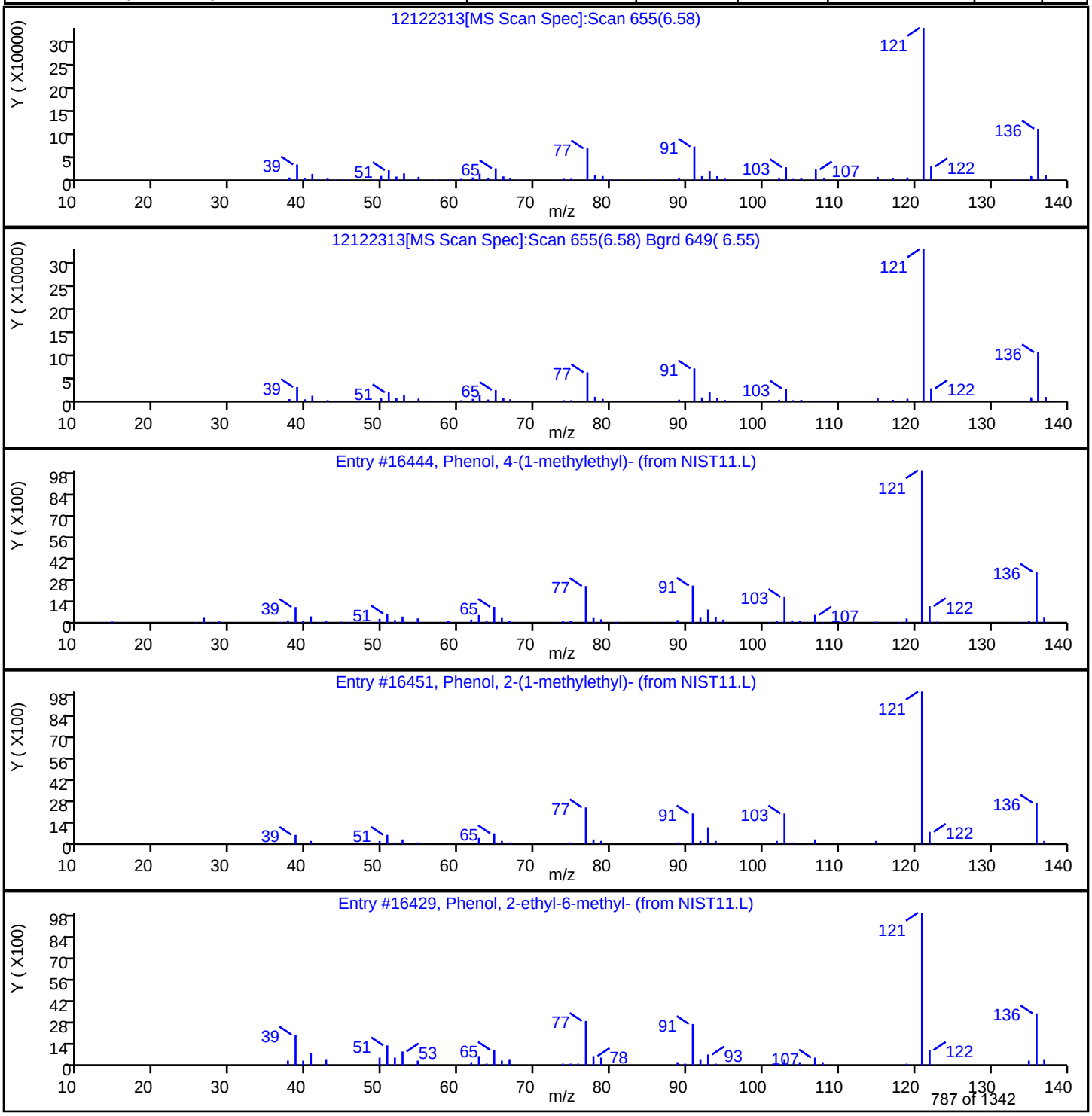
Report Date: 23-Dec-2015 16:08:37 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Injection Date:	23-Dec-2015 14:07:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	1000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.576

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4-(1-methylethyl)-	99-89-8	NIST11	16444	C9H12O	136	95
Phenol, 2-(1-methylethyl)-	88-69-7	NIST11	16451	C9H12O	136	90
Phenol, 2-ethyl-6-methyl-	1687-64-5	NIST11	16429	C9H12O	136	90



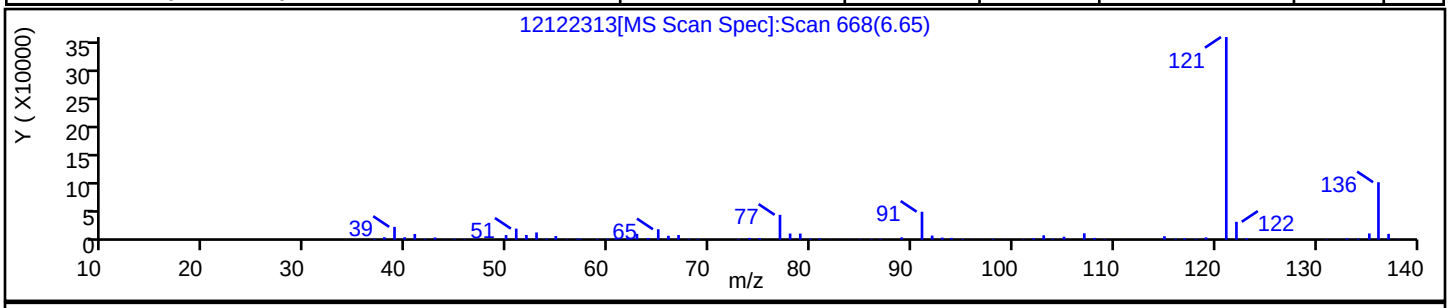
Report Date: 23-Dec-2015 16:08:37 AIM Revision: 1.0 26-May-2015 13:41:26

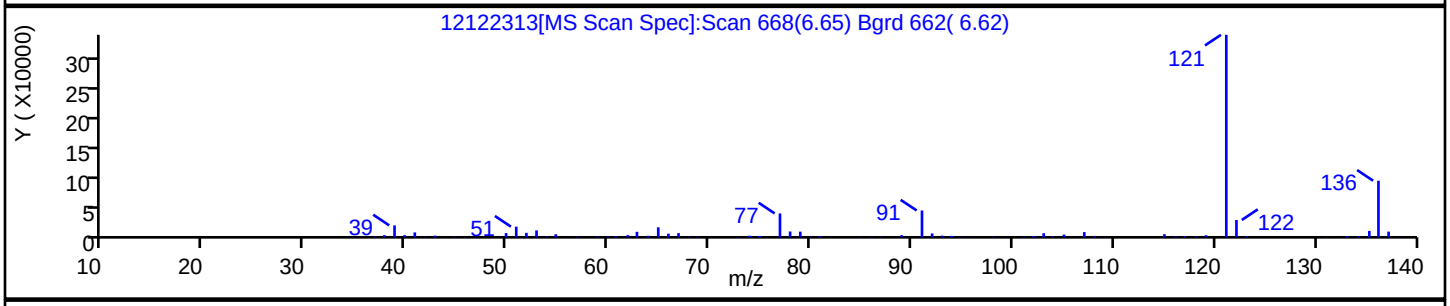
Shealy Environmental Services

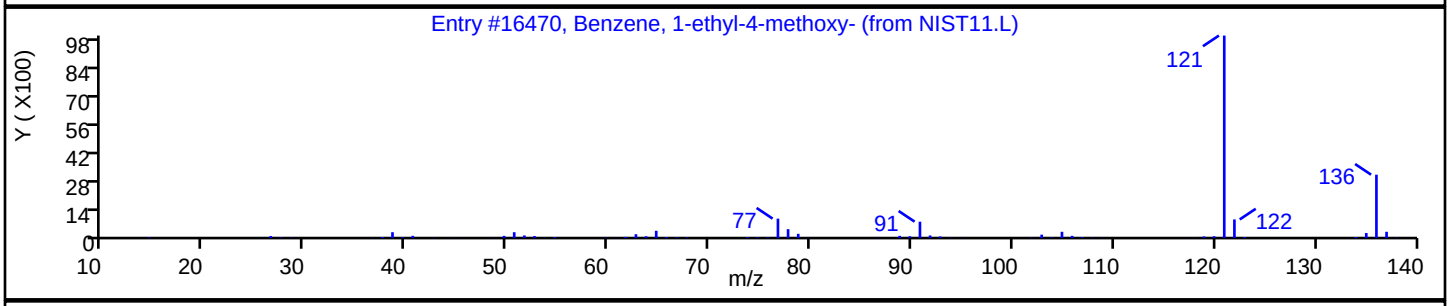
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Injection Date:	23-Dec-2015 14:07:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	1000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

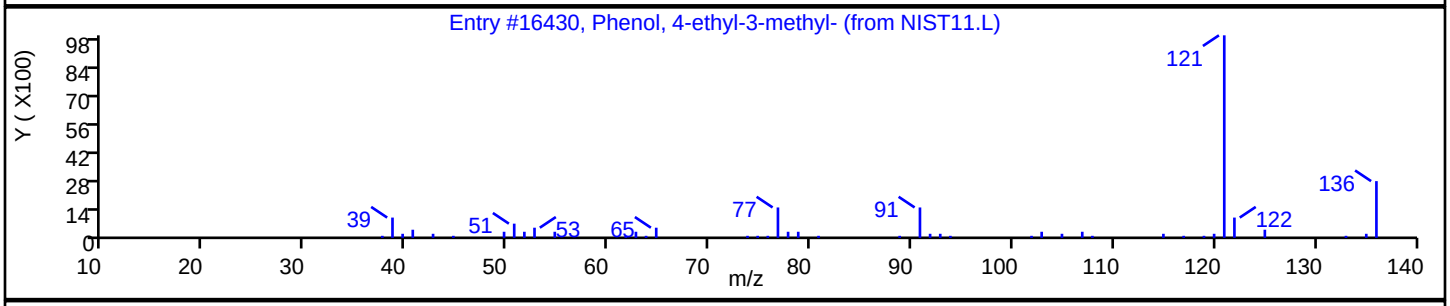
TIC @ 6.645

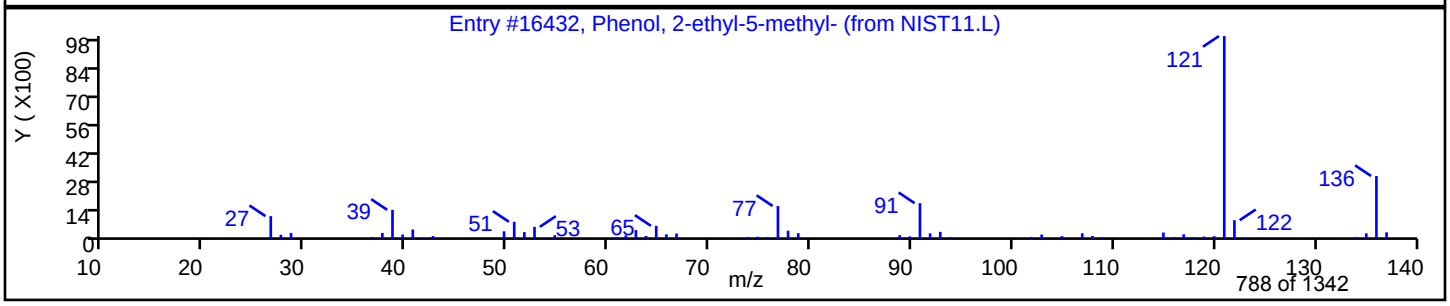
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1-ethyl-4-methoxy-	1515-95-3	NIST11	16470	C9H12O	136	91
Phenol, 4-ethyl-3-methyl-	1123-94-0	NIST11	16430	C9H12O	136	91
Phenol, 2-ethyl-5-methyl-	1687-61-2	NIST11	16432	C9H12O	136	91











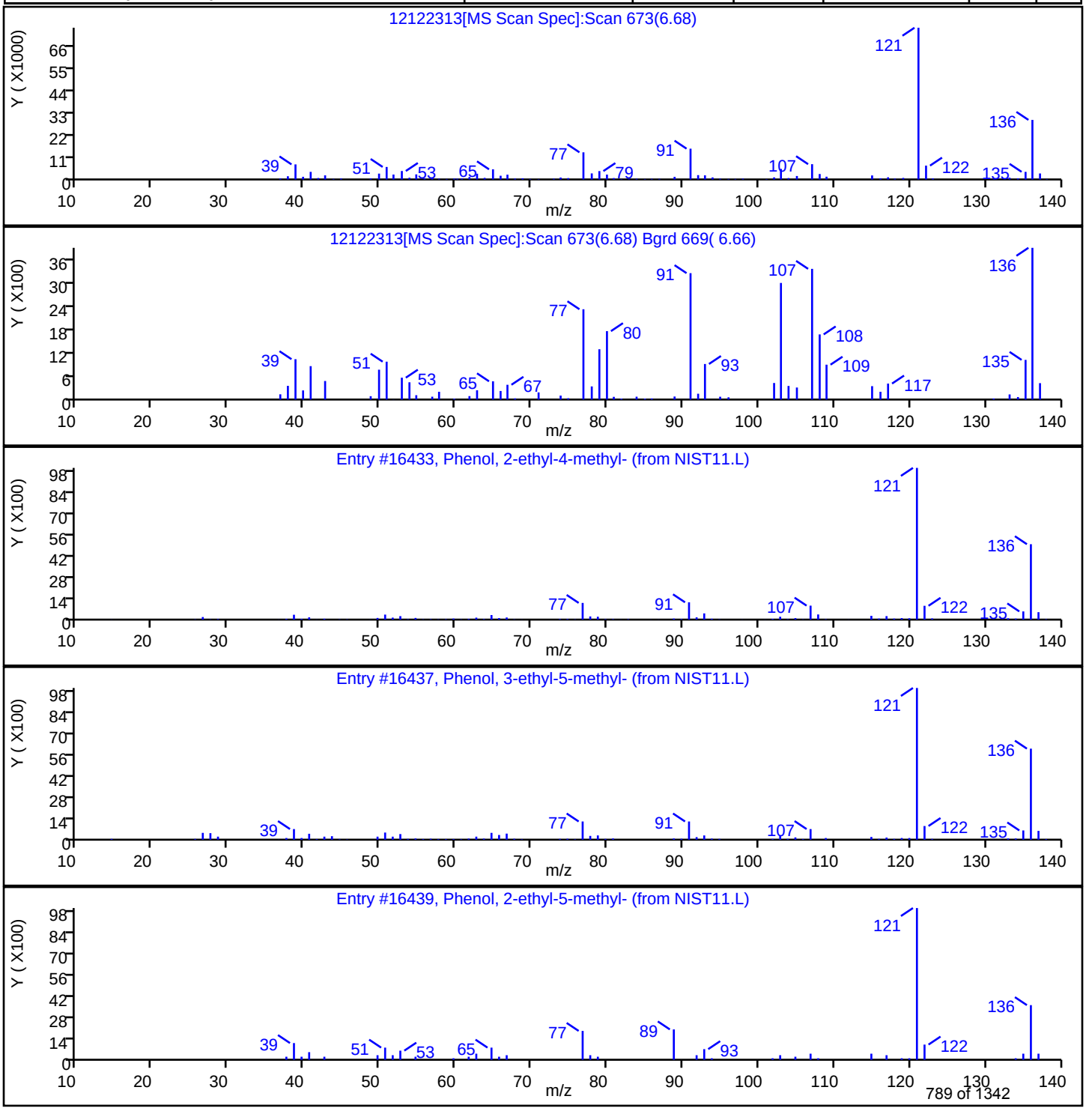
Report Date: 23-Dec-2015 16:08:37 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Injection Date:	23-Dec-2015 14:07:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	1000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.672

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-4-methyl-	3855-26-3	NIST11	16433	C9H12O	136	91
Phenol, 3-ethyl-5-methyl-	698-71-5	NIST11	16437	C9H12O	136	91
Phenol, 2-ethyl-5-methyl-	1687-61-2	NIST11	16439	C9H12O	136	90



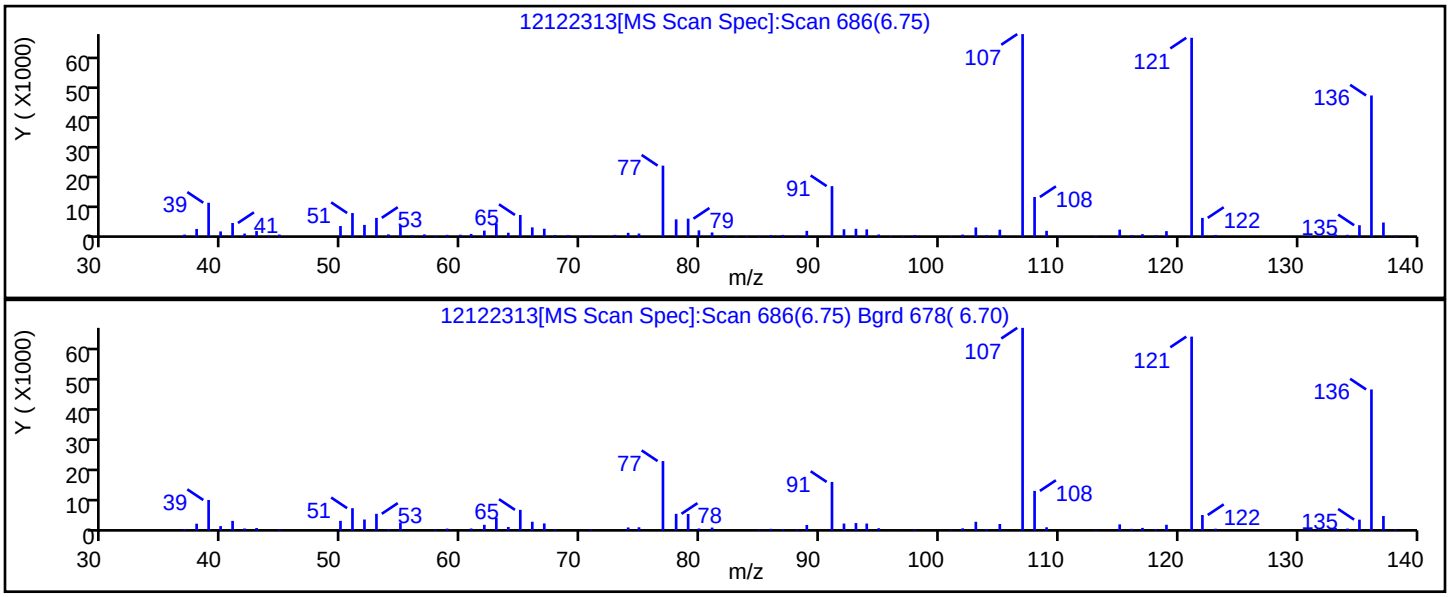
Report Date: 23-Dec-2015 16:08:37 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122313.D		
Injection Date:	23-Dec-2015 14:07:30	Inst. ID:	msd12.i
Client ID:	F6R32	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	1000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.741

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32DL2

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 800 (g/mL) mL Lab File ID: 12122320

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 15000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 2000.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	75000	U
100-52-7	Benzaldehyde	380000	U
108-95-2	Phenol	210000	J DB
111-44-4	Bis(2-Chloroethyl) ether	380000	U
95-57-8	2-Chlorophenol	190000	U
95-48-7	2-Methylphenol	1100000	DB
108-60-1	2,2'-Oxybis(1-chloropropane)	380000	U
98-86-2	Acetophenone	380000	U
106-44-5	4-Methylphenol	920000	DB
621-64-7	N-Nitroso-di-n propylamine	190000	U
67-72-1	Hexachloroethane	190000	U
98-95-3	Nitrobenzene	190000	U
78-59-1	Isophorone	190000	U
88-75-5	2-Nitrophenol	190000	U
105-67-9	2,4-Dimethylphenol	1300000	DB
111-91-1	Bis(2-chloroethoxy)methane	190000	U
120-83-2	2,4-Dichlorophenol	190000	U
91-20-3	Naphthalene	190000	U
106-47-8	4-Chloroaniline	380000	U
87-68-3	Hexachlorobutadiene	190000	U
105-60-2	Caprolactam	380000	U
59-50-7	4-Chloro-3-methylphenol	190000	U
91-57-6	2-Methylnaphthalene	190000	U
77-47-4	Hexachlorocyclo-pentadiene	380000	U
88-06-2	2,4,6-Trichlorophenol	190000	U
95-95-4	2,4,5-Trichlorophenol	190000	U
92-52-4	1,1'-Biphenyl	190000	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32DL2

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 800 (g/mL) mL Lab File ID: 12122320

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 15000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 2000.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	190000	U
88-74-4	2-Nitroaniline	190000	U
131-11-3	Dimethylphthalate	190000	U
606-20-2	2,6-Dinitrotoluene	190000	U
208-96-8	Acenaphthylene	190000	U
99-09-2	3-Nitroaniline	380000	U
83-32-9	Acenaphthene	190000	U
51-28-5	2,4-Dinitrophenol	380000	U
100-02-7	4-Nitrophenol	380000	U
132-64-9	Dibenzofuran	190000	U
121-14-2	2,4-Dinitrotoluene	190000	U
84-66-2	Diethylphthalate	190000	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190000	U
7005-72-3	4-Chlorophenyl-phenyl ether	190000	U
86-73-7	Fluorene	190000	U
100-01-6	4-Nitroaniline	380000	U
534-52-1	4,6-Dinitro-2-methylphenol	380000	U
101-55-3	4-Bromophenyl-phenylether	190000	U
86-30-6	N-Nitrosodiphenylamine	190000	U
118-74-1	Hexachlorobenzene	190000	U
1912-24-9	Atrazine	380000	U
87-86-5	Pentachlorophenol	380000	U
85-01-8	Phenanthrene	190000	U
120-12-7	Anthracene	190000	U
86-74-8	Carbazole	380000	U
84-74-2	Di-n-butylphthalate	190000	U
206-44-0	Fluoranthene	380000	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32DL2

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 800 (g/mL) mL Lab File ID: 12122320

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 15000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 10 Dilution Factor: 2000.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	190000	U
85-68-7	Butylbenzylphthalate	190000	U
91-94-1	3,3'-Dichlorobenzidine	380000	U
56-55-3	Benzo(a)anthracene	190000	U
218-01-9	Chrysene	190000	U
117-81-7	Bis(2-ethylhexyl)phthalate	190000	U
117-84-0	Di-n-octylphthalate	380000	U
205-99-2	Benzo(b)fluoranthene	190000	U
207-08-9	Benzo(k)fluoranthene	190000	U
50-32-8	Benzo(a)pyrene	190000	U
193-39-5	Indeno(1,2,3-cd)pyrene	190000	U
53-70-3	Dibenzo(a,h)anthracene	190000	U
191-24-2	Benzo(g,h,i)perylene	190000	U
58-90-2	2,3,4,6-Tetrachlorophenol	190000	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R32DL2

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29
Analytical Method: SVOA Level: LOW
Matrix: Water Lab Sample ID: QL16010-002
Sample wt/vol: 800 (g/mL) mL Lab File ID: 12122320
% Solids: Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015
Extract Concentrated: (Y/N) Date Analyzed: 12/23/2015
Soil Aliquot (VOA): (uL) Extract Volume: 15000 (uL)
Heated Purge: (Y/N) Extraction Type: CLLE
Purge Volume: (mL) Injection Volume: 1.0
Cleanup Types: pH: 10 Dilution Factor: 2000.0
Concentration Units (ug/L, ug/Kg): ug/L Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	90-00-6	Phenol, 2-ethyl-	6.08	180000	NJ D
02	123-07-9	Phenol, 4-ethyl-	6.25	610000	NJ D
03	526-75-0	Phenol, 2,3-dimethyl-	6.34	120000	NJ D
04	95-65-8	Phenol, 3,4-dimethyl-	6.41	180000	NJ D
05	99-89-8	Phenol, 4-(1-methylethyl)-	6.58	120000	NJ D
06	1687-61-2	Phenol, 2-ethyl-5-methyl-	6.65	130000	NJ D
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D		
Lab Sample ID:	QL16010-002	Client Sample ID:	F6R32DL2
Injection Date:	23-Dec-2015 17:31:30	Dil. Factor:	2000.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QL16010-002		
Misc. Info:	2000X		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	21
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	2000.00	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	15000	Volume of final extract (uL)
Vo	800.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 17:57:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0		5.123		ND			
108 1,4-Dioxane	88.0		3.333		ND			
$ 109 1,4-Dioxane-d8	96.0		3.312		ND			
4 Phenol	94.0	5.128	5.133	-0.005	248546	5.6644	212414	e
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.192		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0		5.299		ND			
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	440906	20.000	750000	
10 2-Methylphenol	108.0	5.609	5.614	-0.005	886945	29.875	1120320	
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0		5.710		ND			
14 4-Methylphenol	108.0	5.726	5.737	-0.011	786254	24.411	915418	
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0		5.913		ND			
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0	6.164	6.170	-0.006	1175105	33.720	1264512	
$ 95 2-Nitrophenol-d4	143.0		6.175		ND			
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			

Report Date: 23-Dec-2015 17:58:05 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122320.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0		6.367		ND			
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.511	6.517	-0.006	1847546	20.000	750000	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0		6.544		ND			
25 4-Chloroaniline	127.0		6.554		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.923		ND			
29 2-Methylnaphthalene	142.0		7.105		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.243		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0		7.687		ND			
37 Dimethylphthalate	163.0		7.708		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.991	7.874	0.117	406941	4.7811	179291	QeR
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.991	7.997	-0.006	984840	20.000	750000	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.029		ND			
$ 100 4-Nitrophenol-d4	143.0		8.039		ND			
44 4-Nitrophenol	109.0		8.045		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.429		ND			
$ 101 Fluorene-d10	176.0		8.435		ND			
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0		8.472		ND			
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.851		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.274	-0.011	1501701	20.000	750000	
59 Phenanthrene	178.0		9.295		ND			
$ 103 Anthracene-d10	188.0	9.263	9.322	-0.059	1484912	19.396	727332	R
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.669		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0		10.641		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
64 Pyrene	202.0		10.663		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.009		ND			
68 3,3'-Dichlorobenzidine	252.0		12.073		ND			
67 Benzo(a)anthracene	228.0		12.164		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1911823	20.000	750000	
70 Chrysene	228.0		12.222		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.814		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.450	14.322	0.128	1961780	20.379	764211	QR
75 Benzo(a)pyrene	252.0		14.375		ND			
* 76 Perylene-d12	264.0	14.450	14.466	-0.016	1985815	20.000	750000	
77 Indeno(1,2,3-cd)pyrene	276.0		16.630		ND			
78 Dibenzo(a,h)anthracene	278.0		16.635		ND			
79 Benzo(g,h,i)perylene	276.0		17.271		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D		
Lab Sample ID:	QL16010-002	Client Sample ID:	F6R32DL2
Injection Date:	23-Dec-2015 17:31:30	Dil. Factor:	2000.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QL16010-002		
Misc. Info:	2000X		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	21
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	2000.00	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	15000	Volume of final extract (uL)
Vo	800.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 17:57:30

Tentative Identified Compound Results

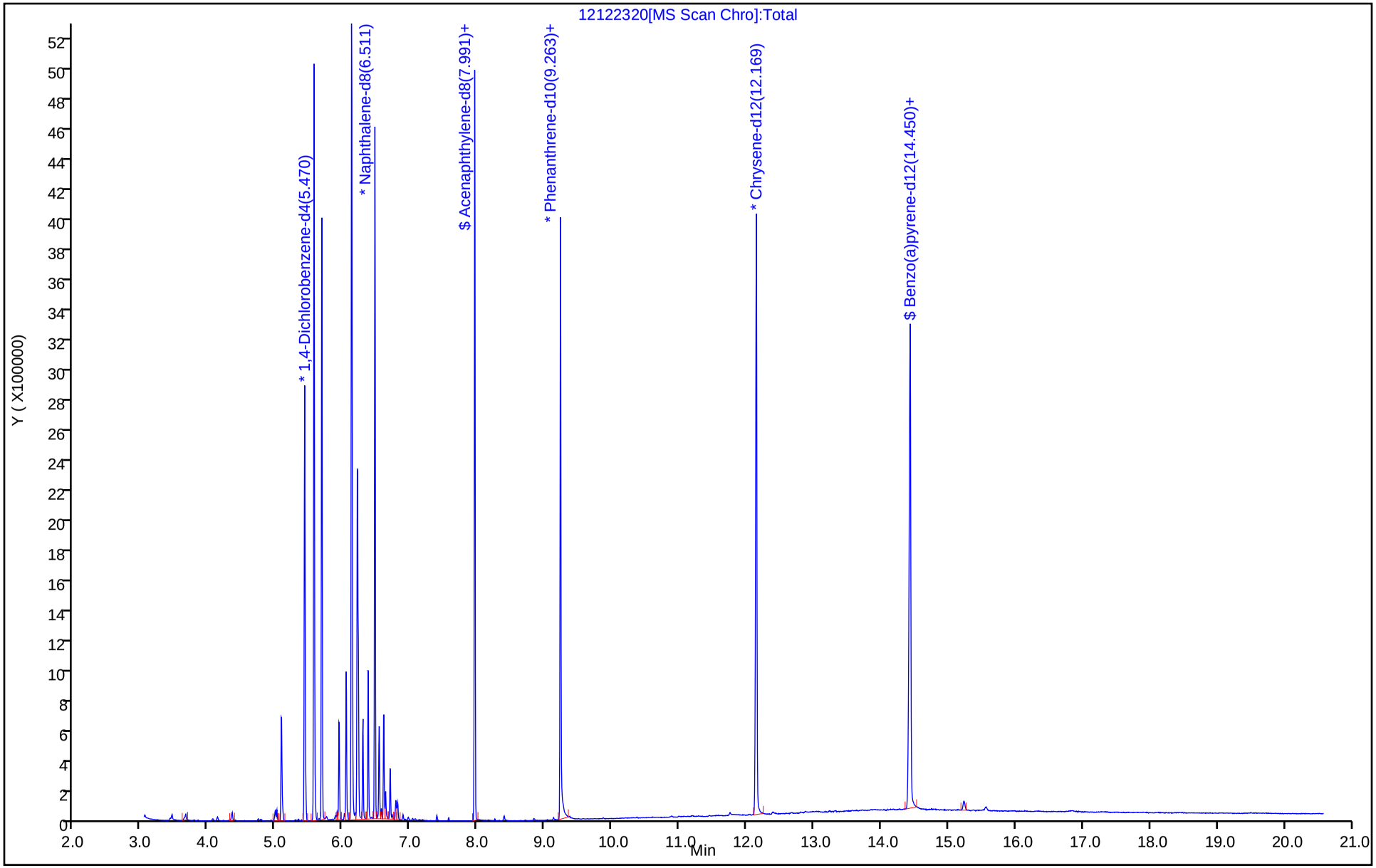
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
90-00-6 Phenol, 2-ethyl-								
6.084	907127	4.7107	176651	23	95	9907	C8H10O	122
123-07-9 Phenol, 4-ethyl-								
6.250	3144575	16.330	612363	23	94	9908	C8H10O	122
526-75-0 Phenol, 2,3-dimethyl-								
6.335	598260	3.1067	116503	23	96	9934	C8H10O	122
95-65-8 Phenol, 3,4-dimethyl-								
6.410	938508	4.8736	182761	23	97	9935	C8H10O	122
99-89-8 Phenol, 4-(1-methylethyl)-								
6.576	604721	3.1403	117761	23	91	16450	C9H12O	136
1687-61-2 Phenol, 2-ethyl-5-methyl-								
6.645	661688	3.4361	128855	23	91	16432	C9H12O	136

Quant. Compounds	RT	Response	Amount ng/ul
* 23 Naphthalene-d8	6.511	3851364	20.000

Report Date: 23-Dec-2015 17:58:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D				
Injection Date:	23-Dec-2015 17:31:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R32DL2	Lab ID:	QL16010-002		
Sample Info:	12122315.b, QL16010-002				
Injection Vol.	1.00 1	Dil. Factor:	2000.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

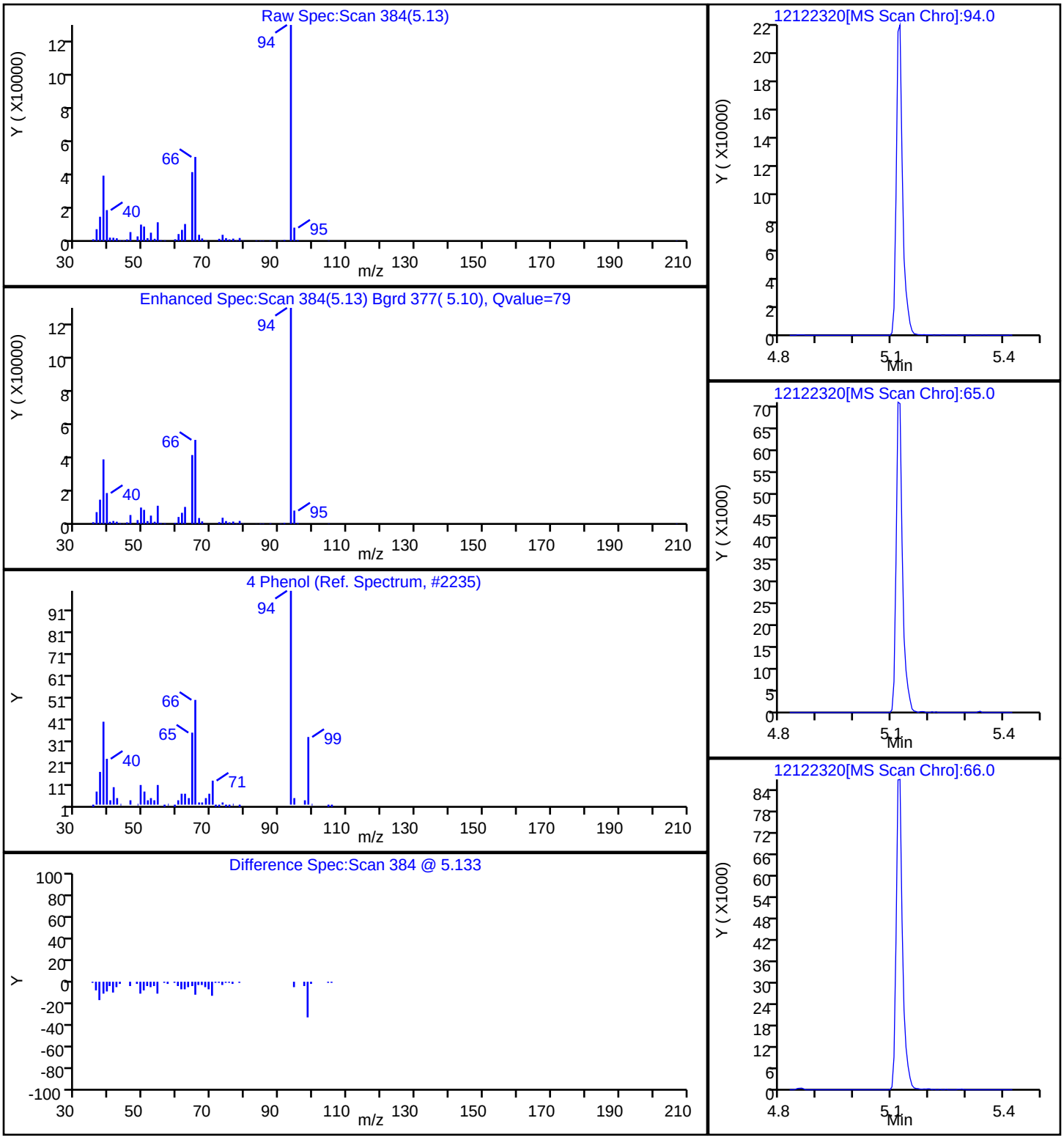


Report Date: 23-Dec-2015 17:58:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D		
Injection Date:	23-Dec-2015 17:31:30	Inst. ID:	msd12.i
Client ID:	F6R32DL2	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	2000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

4 Phenol

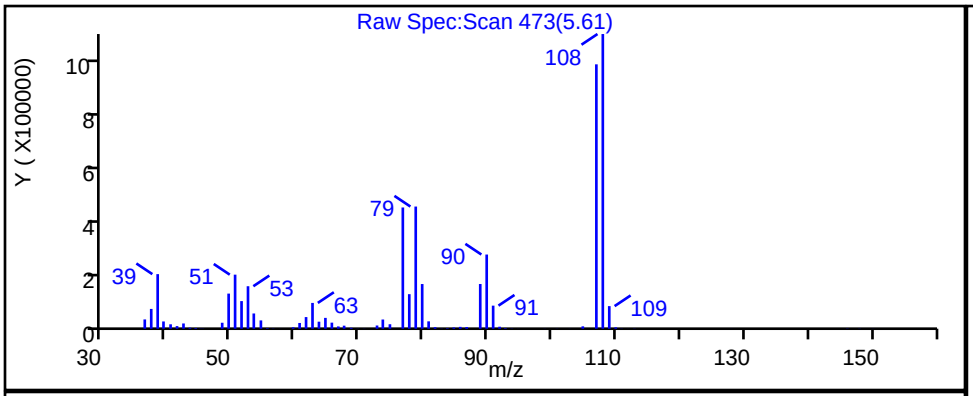


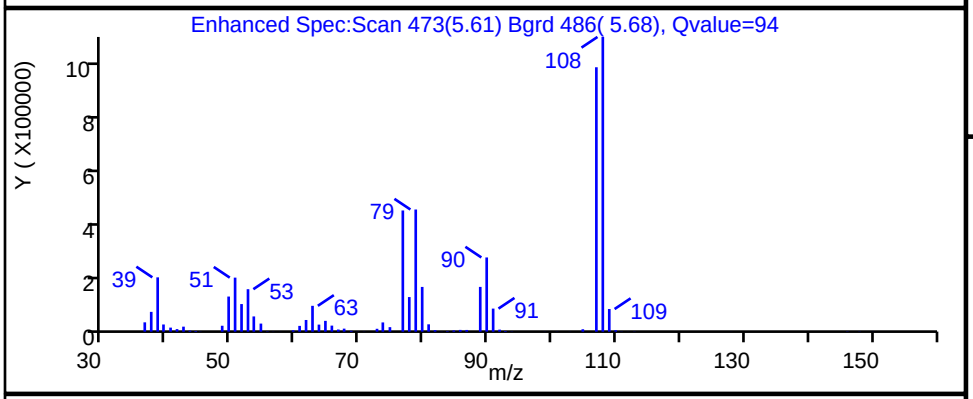
Report Date: 23-Dec-2015 17:58:05 AIM Revision: 1.0 26-May-2015 13:41:26

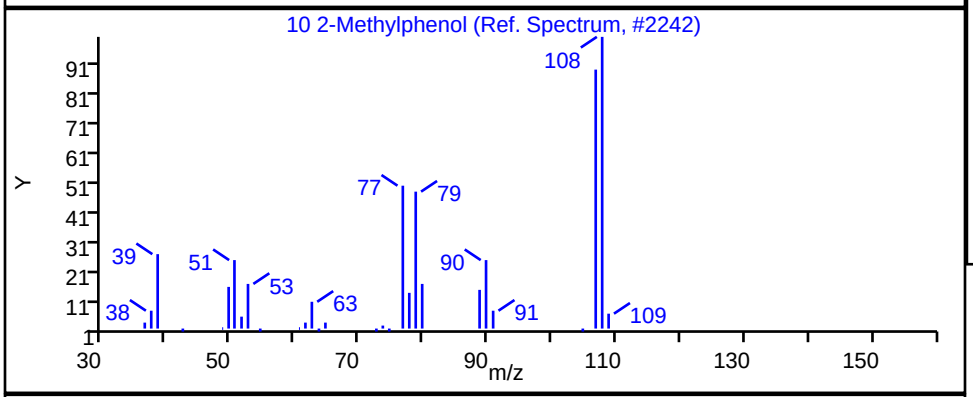
Shealy Environmental Services

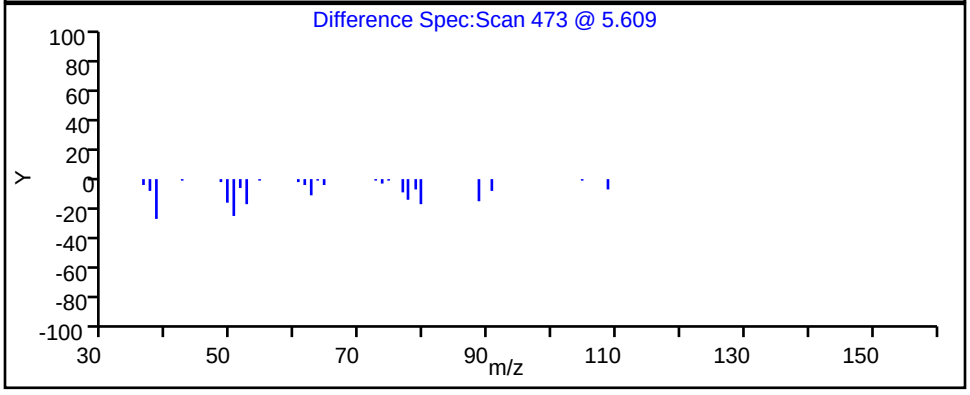
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D		
Injection Date:	23-Dec-2015 17:31:30	Inst. ID:	msd12.i
Client ID:	F6R32DL2	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	2000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

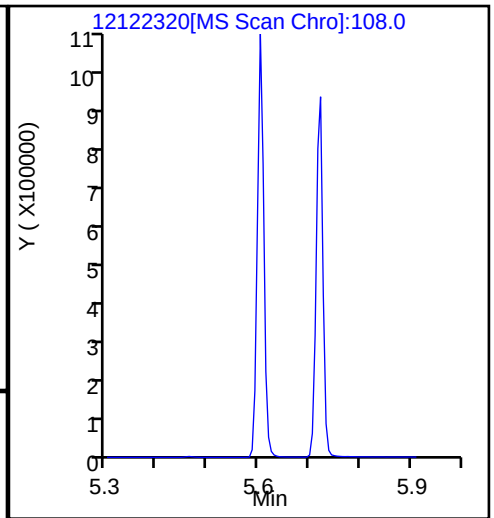
10 2-Methylphenol

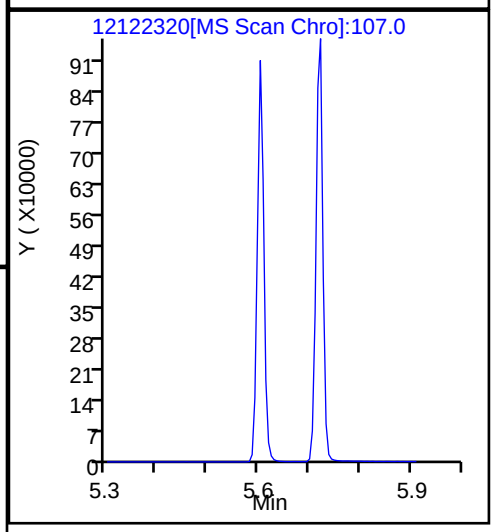












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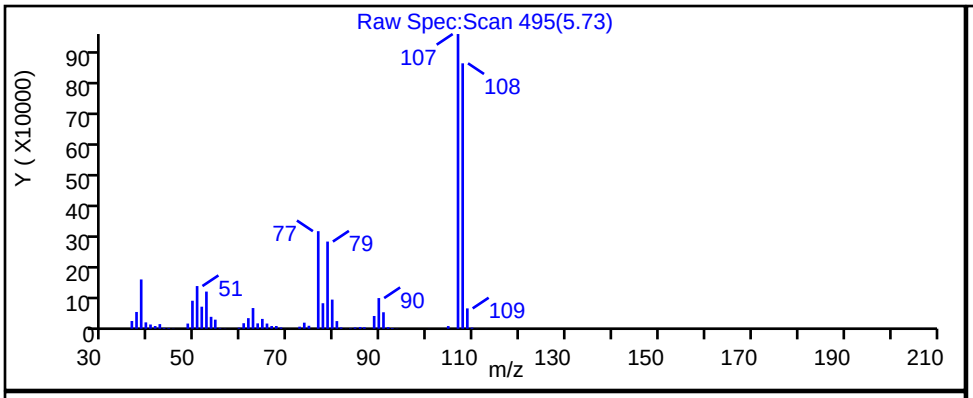
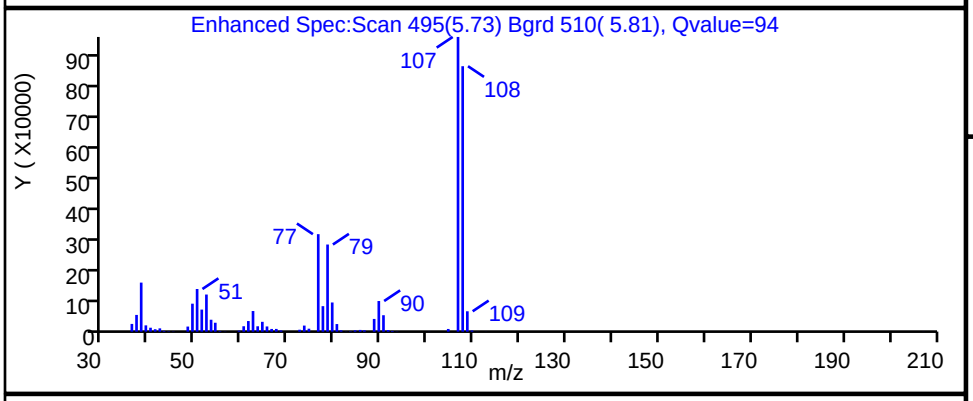
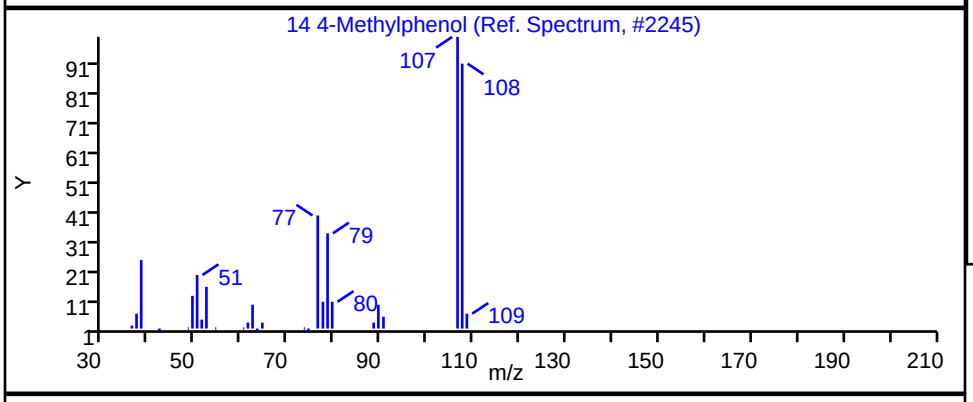
Shealy Environmental Services

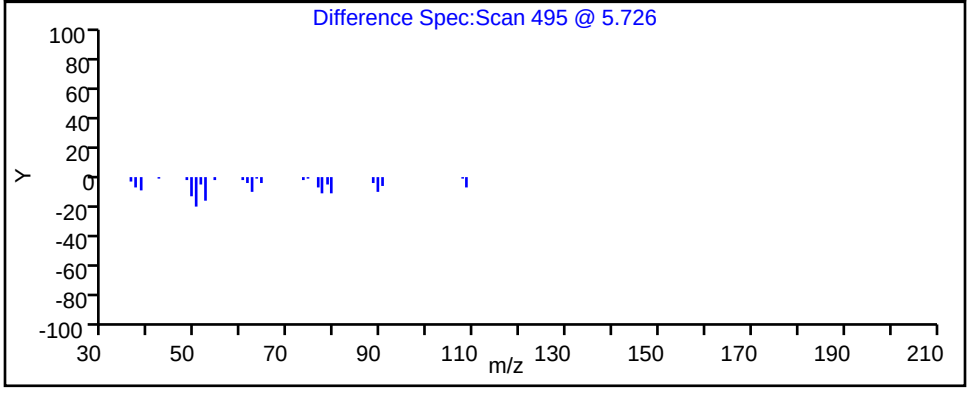
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D		
Injection Date:	23-Dec-2015 17:31:30	Inst. ID:	msd12.i
Client ID:	F6R32DL2	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	2000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

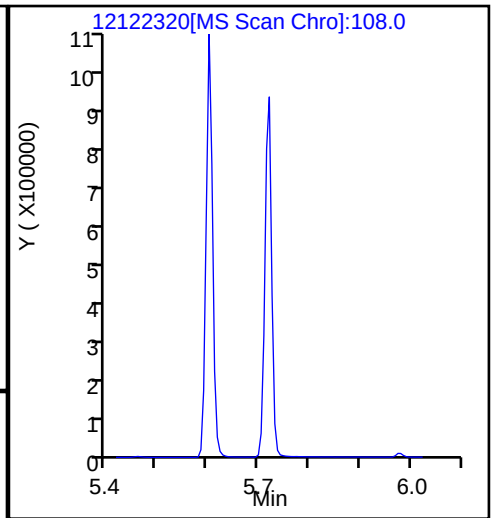
14 4-Methylphenol

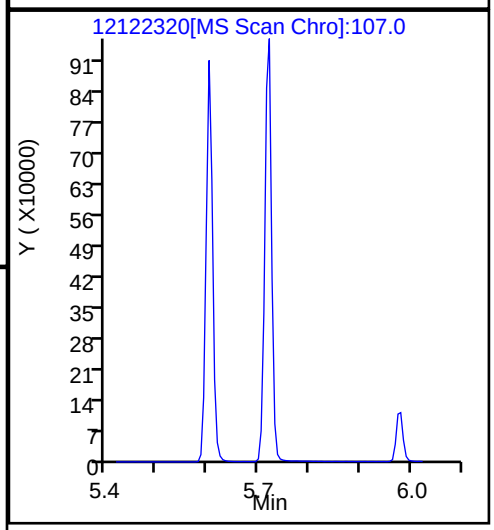












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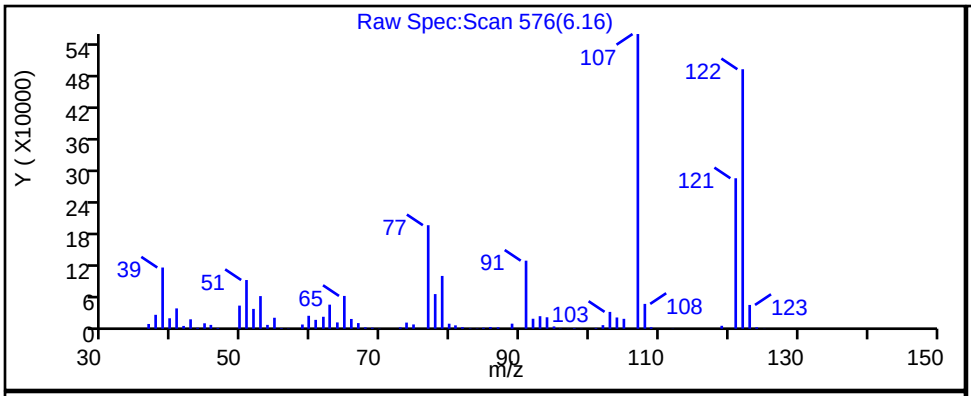
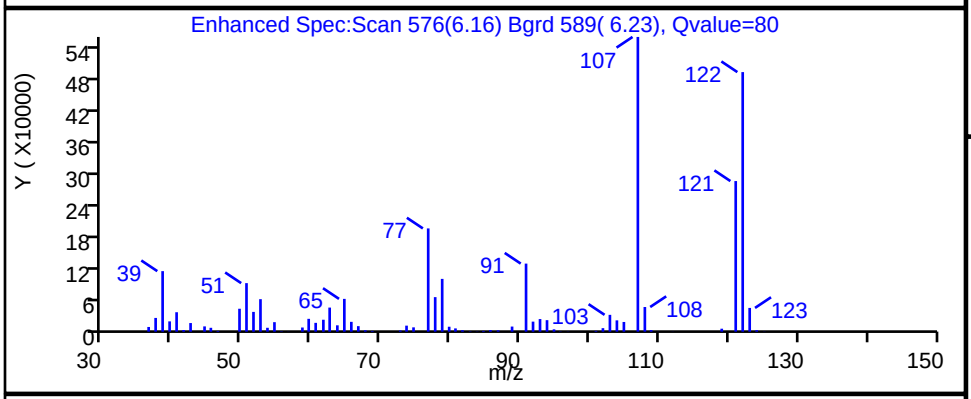
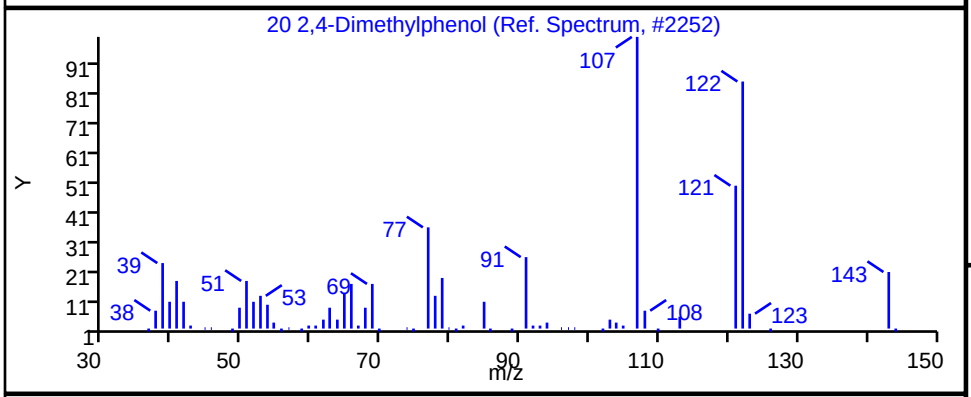
Shealy Environmental Services

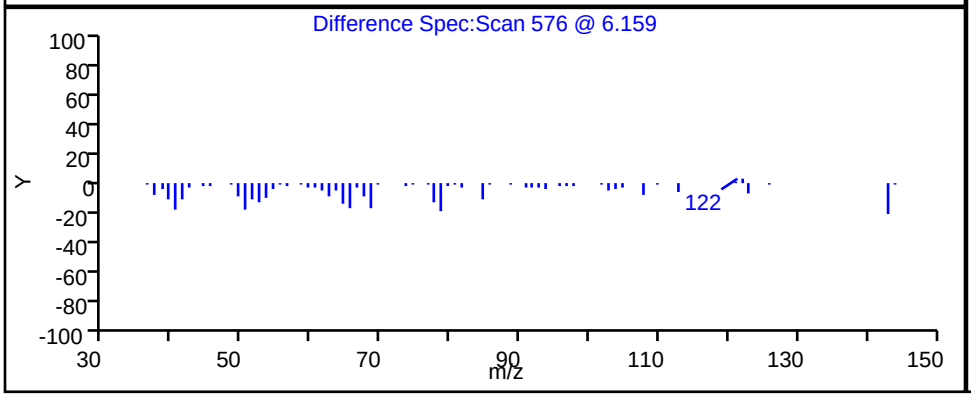
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D		
Injection Date:	23-Dec-2015 17:31:30	Inst. ID:	msd12.i
Client ID:	F6R32DL2	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	2000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

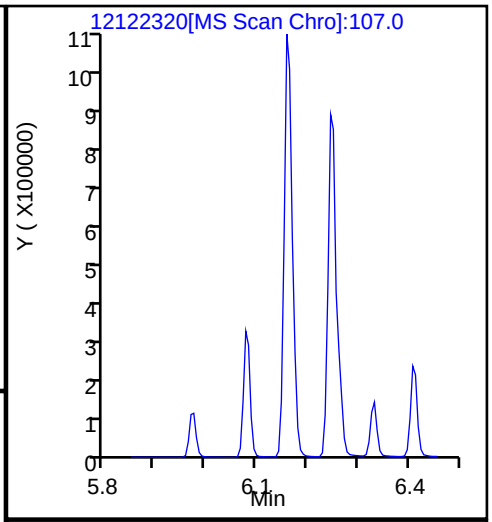
20 2,4-Dimethylphenol

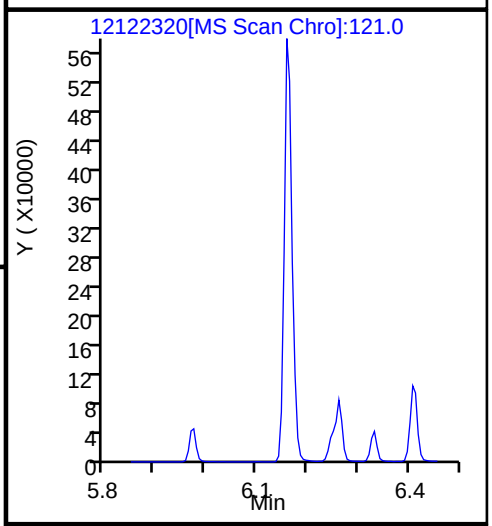


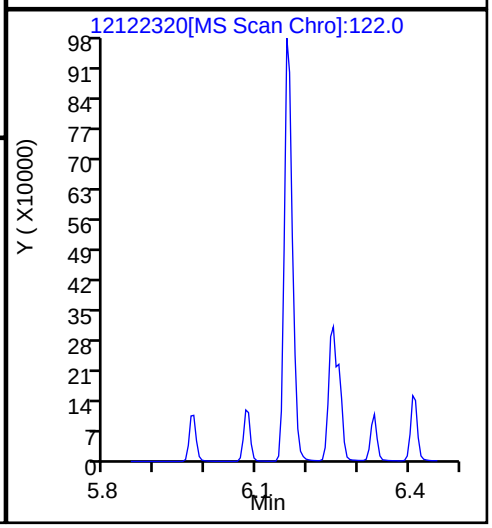












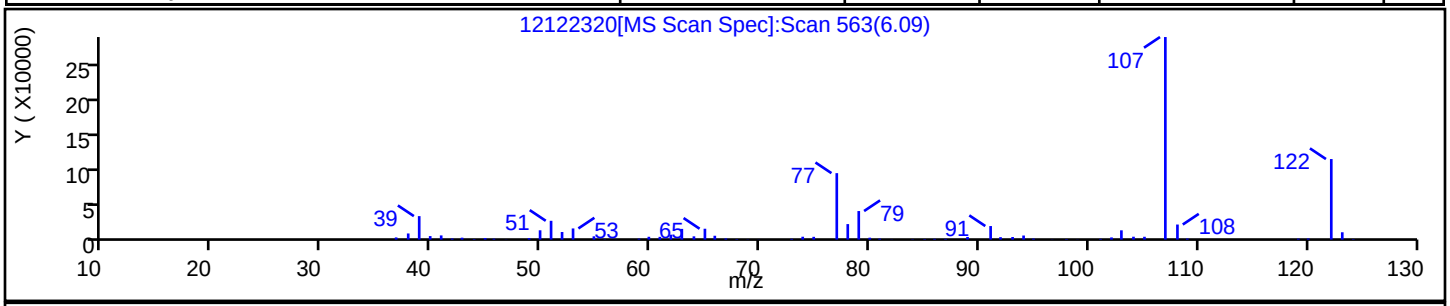
Report Date: 23-Dec-2015 17:58:05 AIM Revision: 1.0 26-May-2015 13:41:26

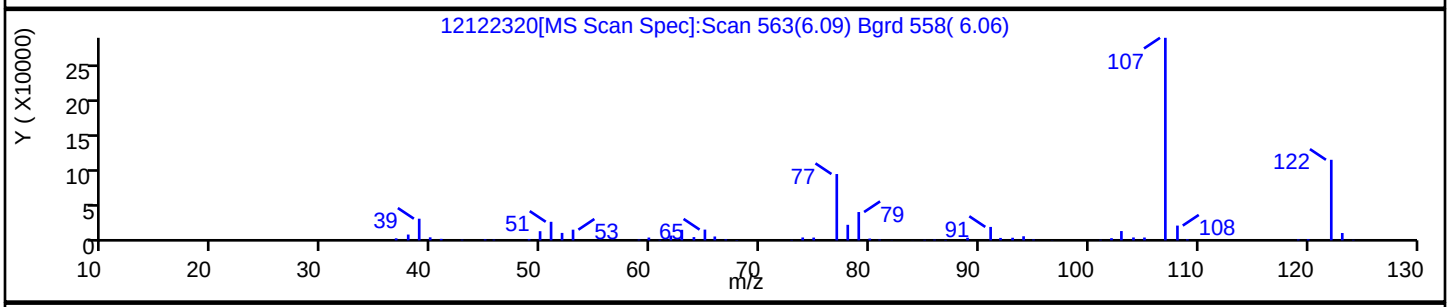
Shealy Environmental Services

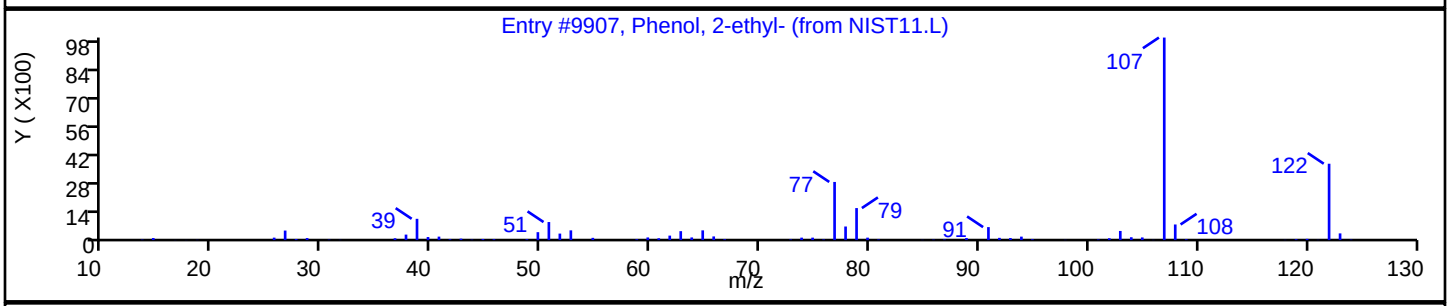
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D		
Injection Date:	23-Dec-2015 17:31:30	Inst. ID:	msd12.i
Client ID:	F6R32DL2	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	2000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

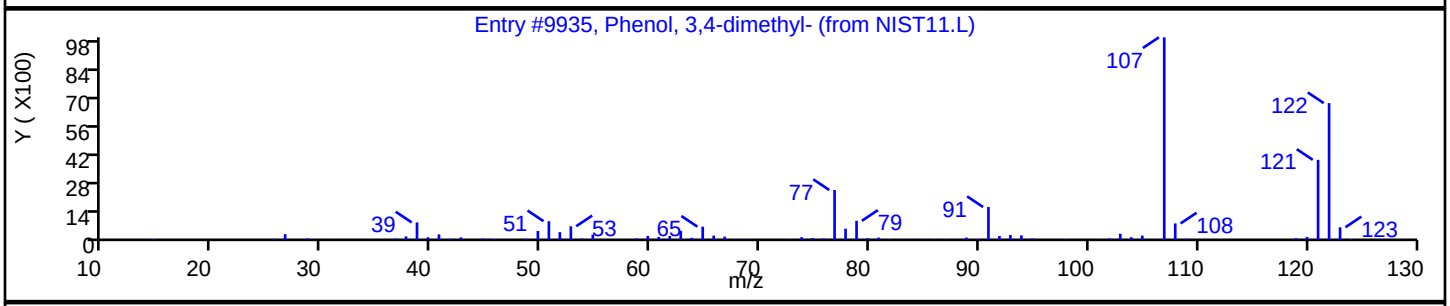
TIC @ 6.084

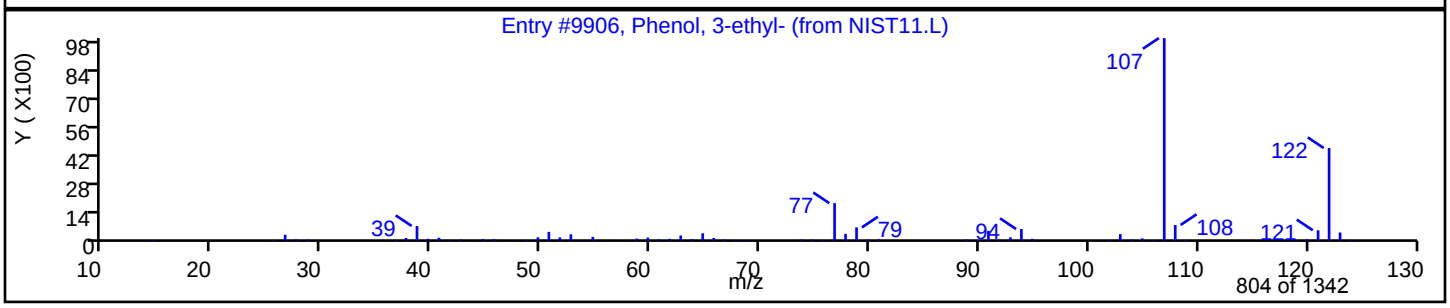
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	95
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9935	C8H10O	122	91
Phenol, 3-ethyl-	620-17-7	NIST11	9906	C8H10O	122	91











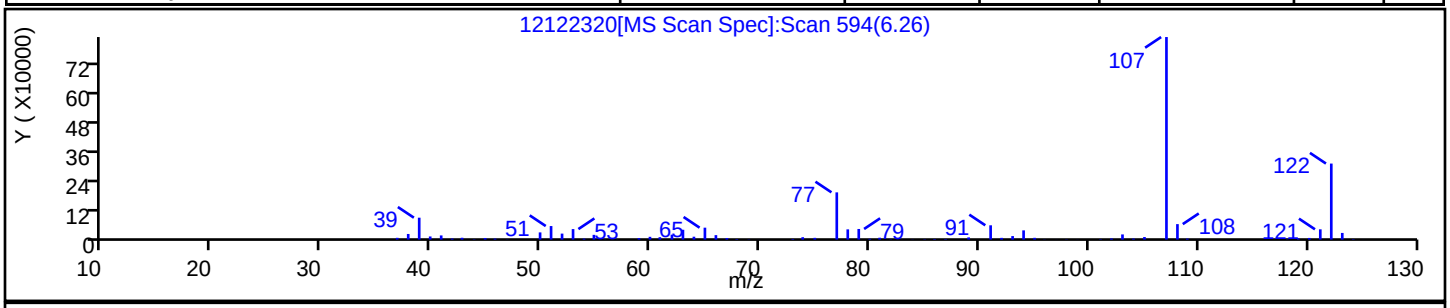
Report Date: 23-Dec-2015 17:58:05 AIM Revision: 1.0 26-May-2015 13:41:26

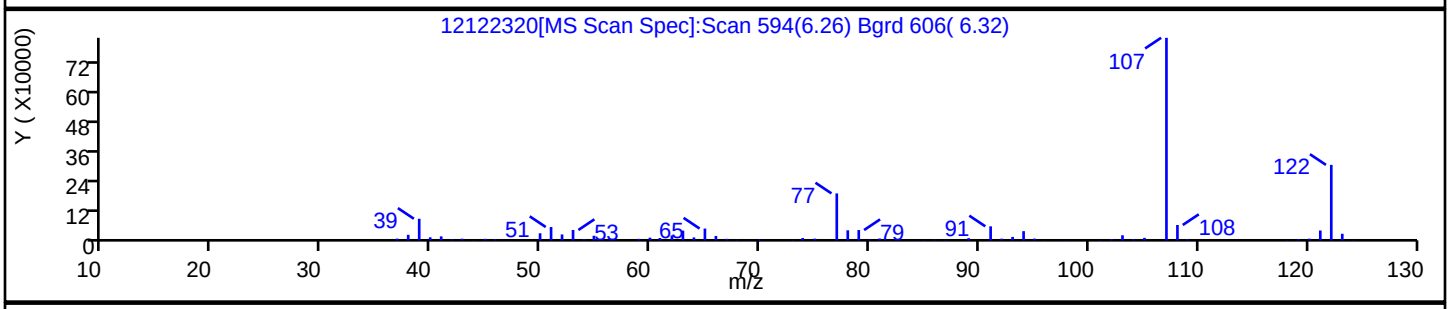
Shealy Environmental Services

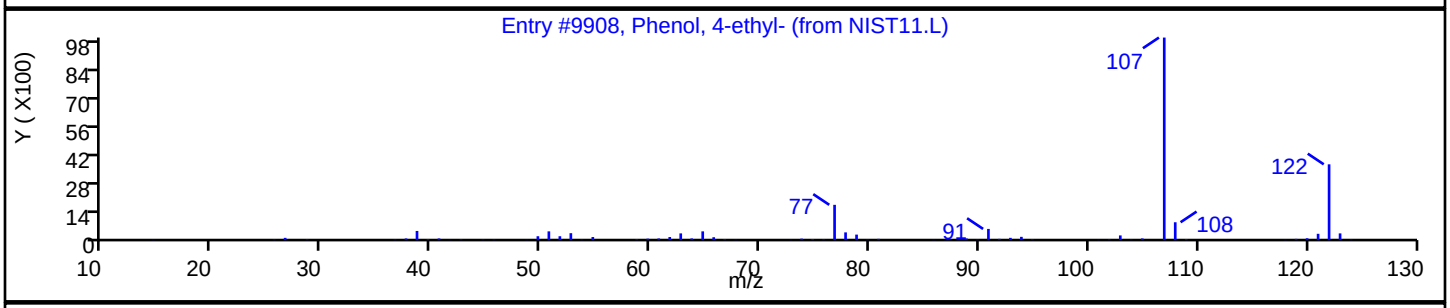
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D		
Injection Date:	23-Dec-2015 17:31:30	Inst. ID:	msd12.i
Client ID:	F6R32DL2	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	2000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

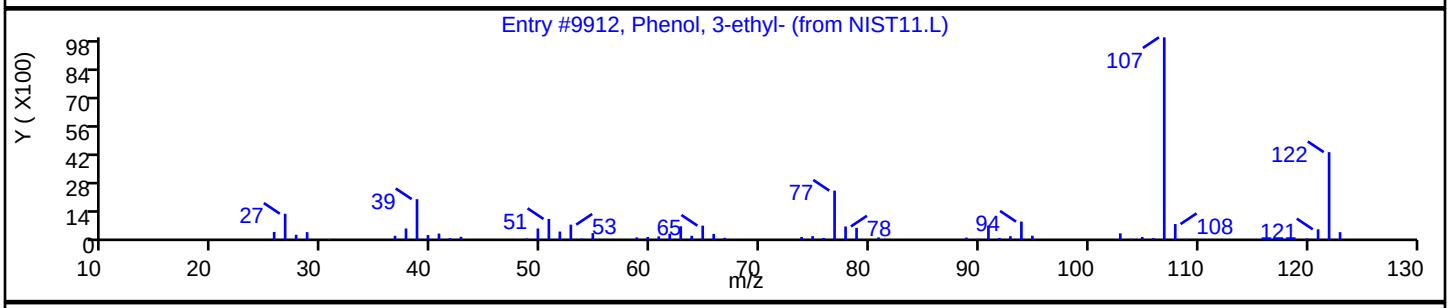
TIC @ 6.250

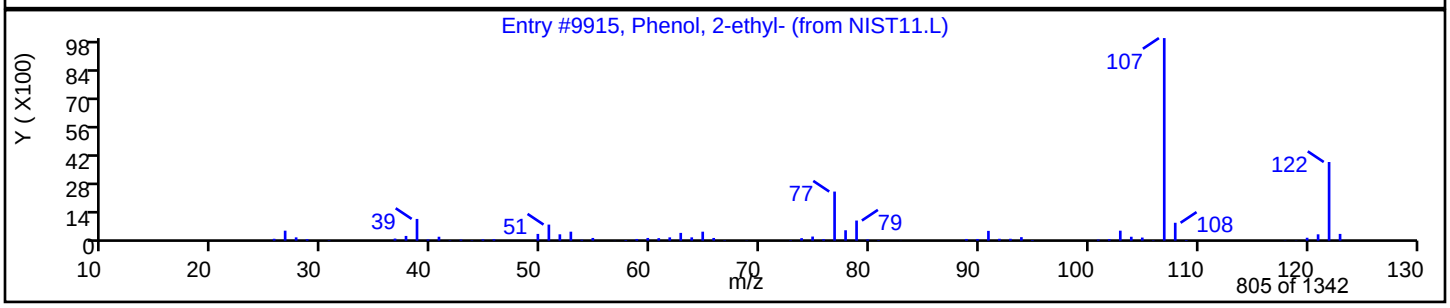
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4-ethyl-	123-07-9	NIST11	9908	C8H10O	122	94
Phenol, 3-ethyl-	620-17-7	NIST11	9912	C8H10O	122	91
Phenol, 2-ethyl-	90-00-6	NIST11	9915	C8H10O	122	87











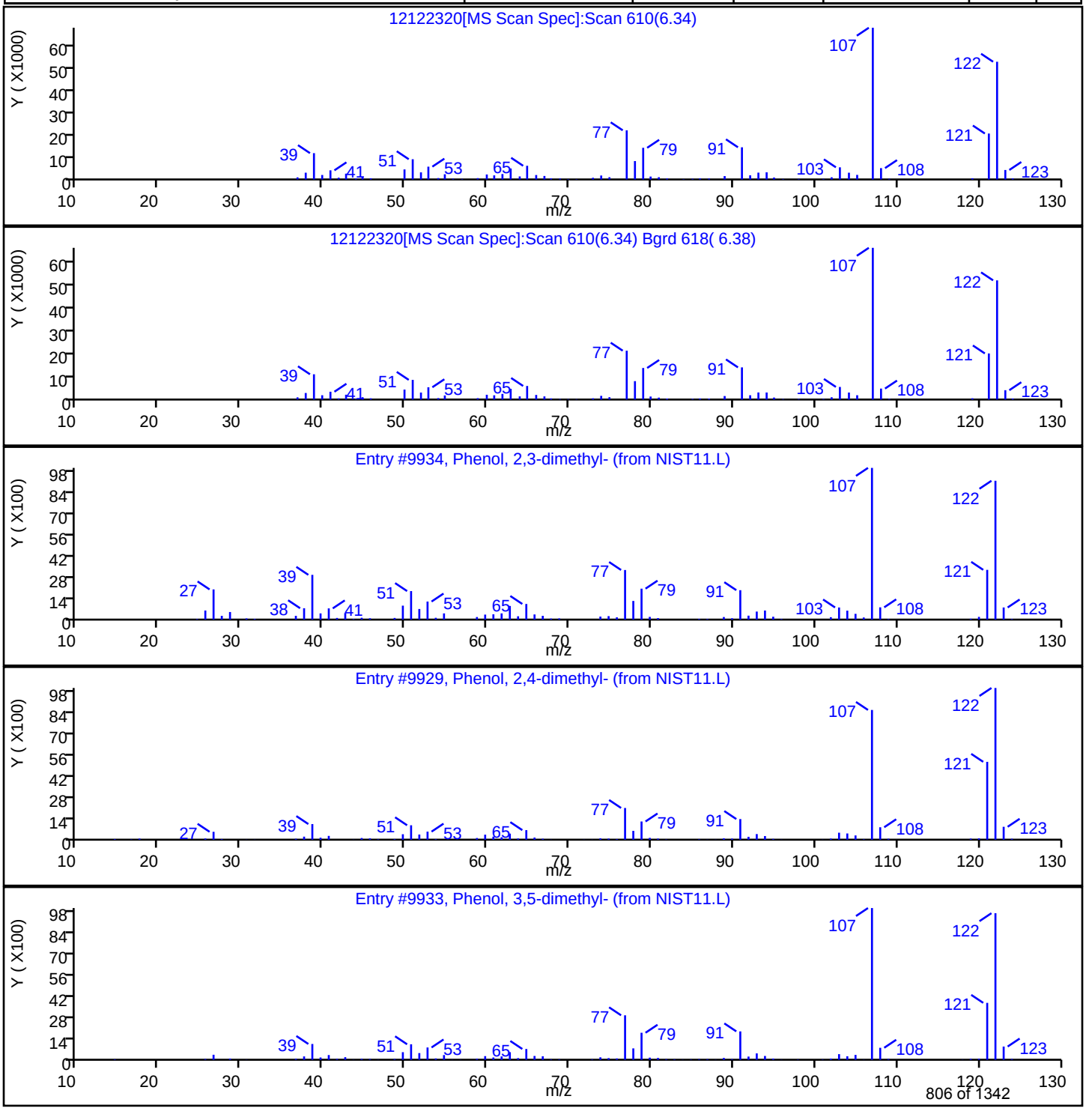
Report Date: 23-Dec-2015 17:58:05 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D		
Injection Date:	23-Dec-2015 17:31:30	Inst. ID:	msd12.i
Client ID:	F6R32DL2	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	2000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.335

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9934	C8H10O	122	96
Phenol, 2,4-dimethyl-	105-67-9	NIST11	9929	C8H10O	122	96
Phenol, 3,5-dimethyl-	108-68-9	NIST11	9933	C8H10O	122	96



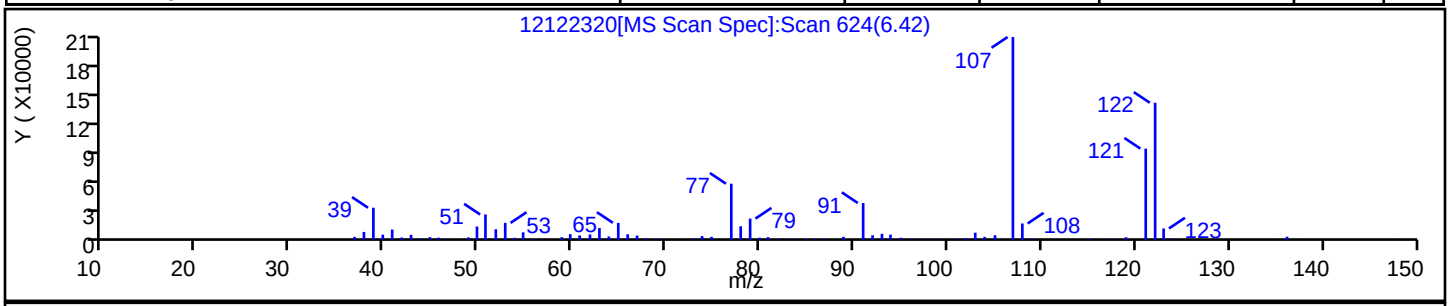
Report Date: 23-Dec-2015 17:58:05 AIM Revision: 1.0 26-May-2015 13:41:26

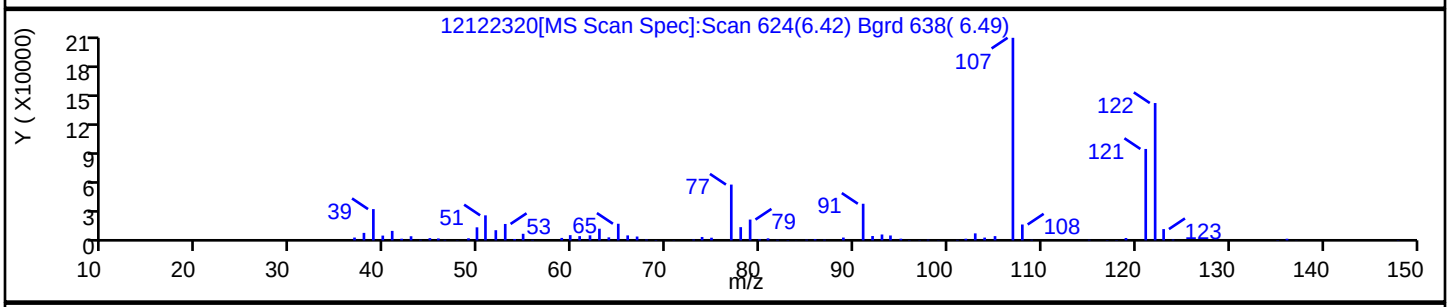
Shealy Environmental Services

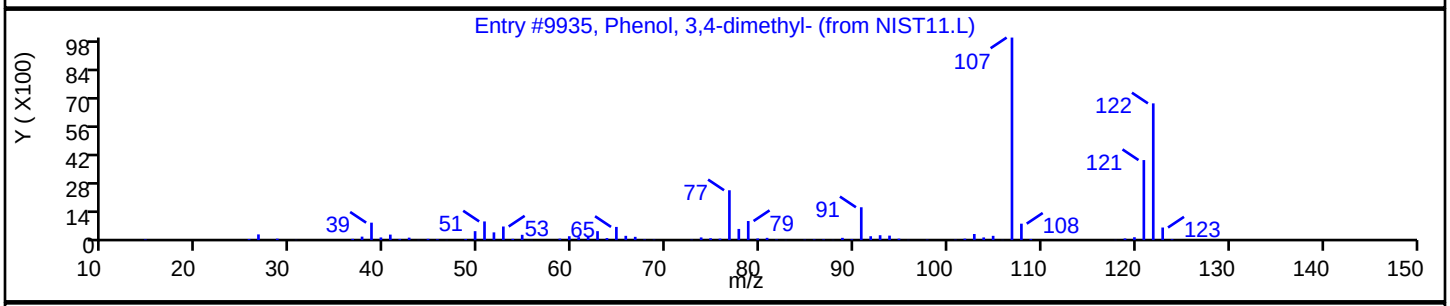
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D		
Injection Date:	23-Dec-2015 17:31:30	Inst. ID:	msd12.i
Client ID:	F6R32DL2	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	2000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

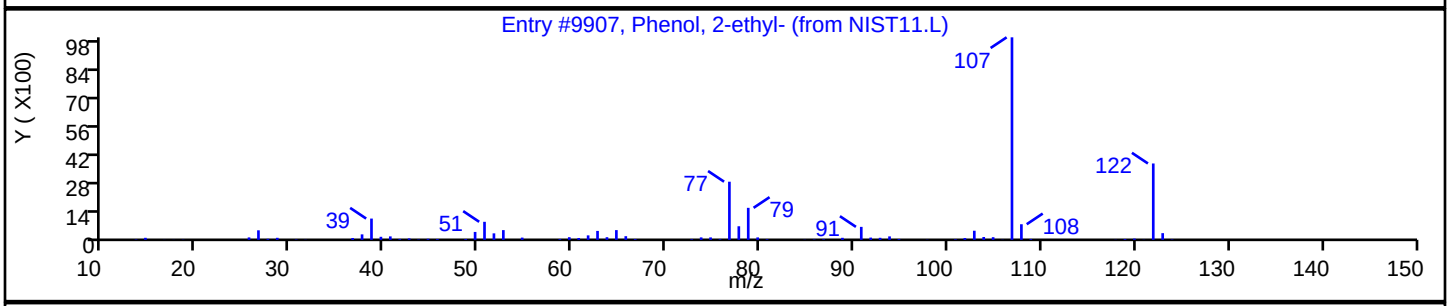
TIC @ 6.410

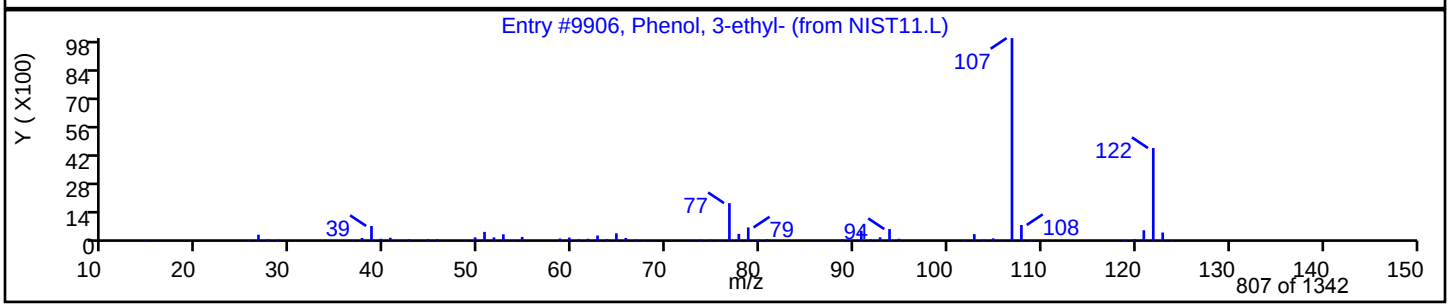
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9935	C8H10O	122	97
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	93
Phenol, 3-ethyl-	620-17-7	NIST11	9906	C8H10O	122	90











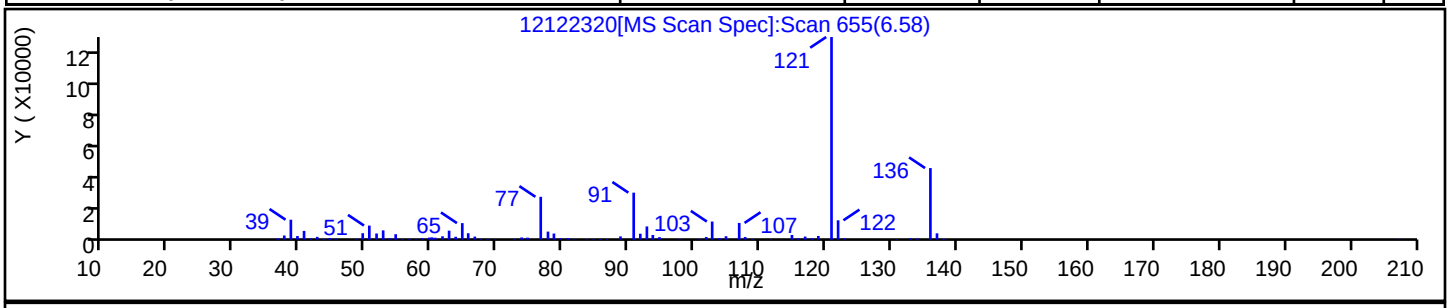
Report Date: 23-Dec-2015 17:58:05 AIM Revision: 1.0 26-May-2015 13:41:26

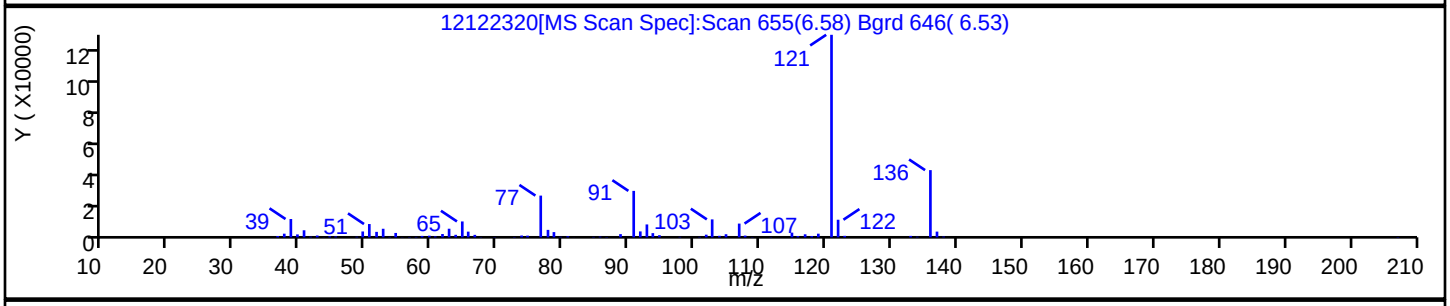
Shealy Environmental Services

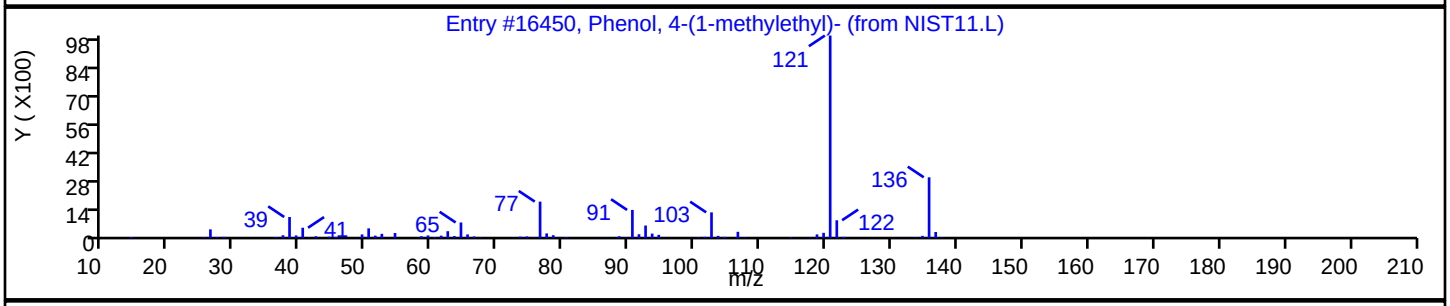
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D		
Injection Date:	23-Dec-2015 17:31:30	Inst. ID:	msd12.i
Client ID:	F6R32DL2	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	2000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

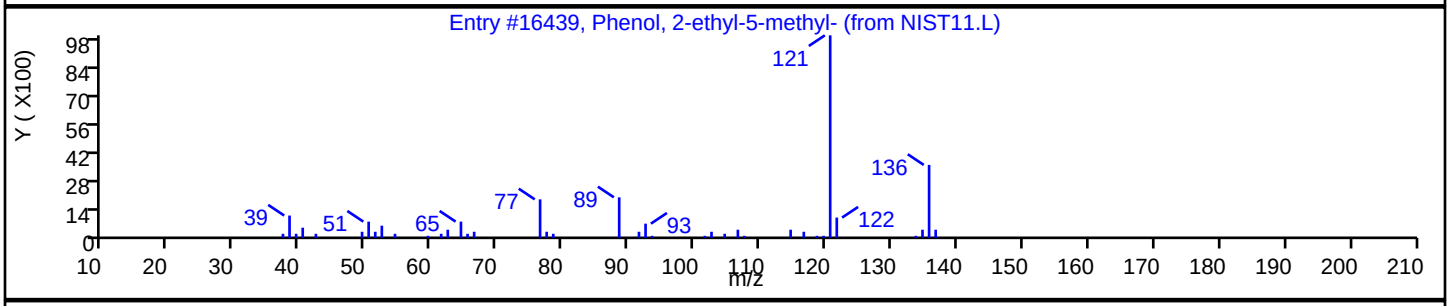
TIC @ 6.576

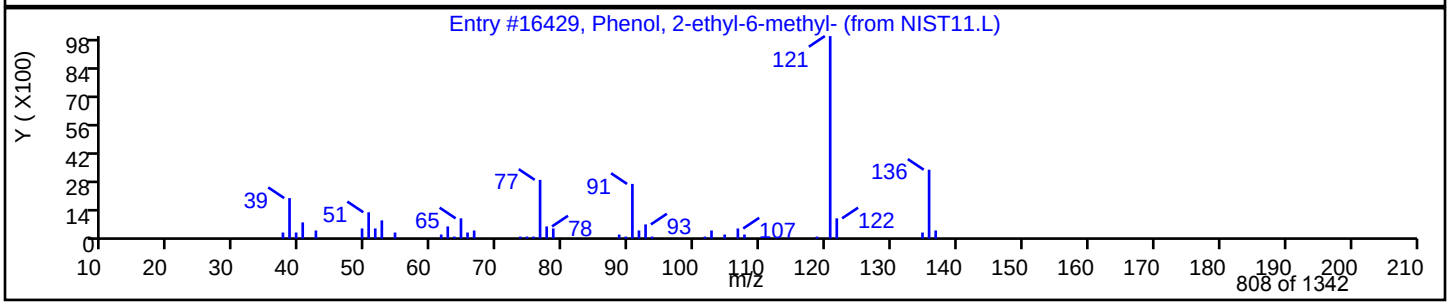
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4-(1-methylethyl)-	99-89-8	NIST11	16450	C9H12O	136	91
Phenol, 2-ethyl-5-methyl-	1687-61-2	NIST11	16439	C9H12O	136	90
Phenol, 2-ethyl-6-methyl-	1687-64-5	NIST11	16429	C9H12O	136	90











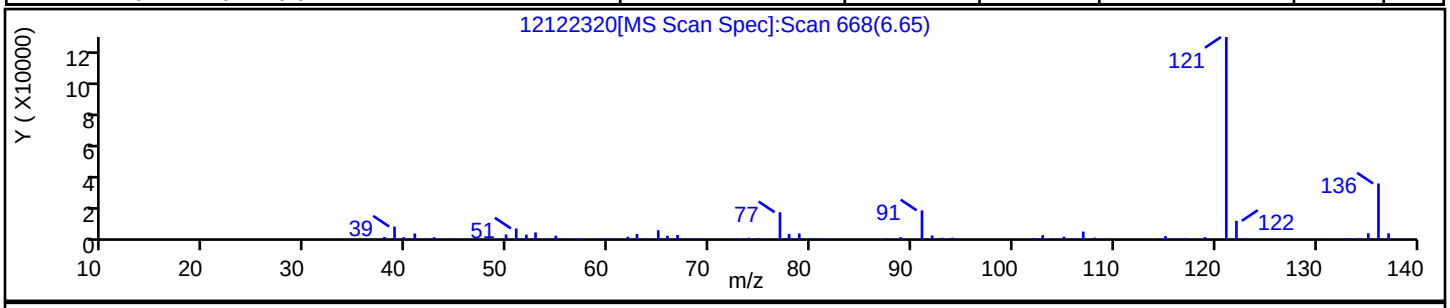
Report Date: 23-Dec-2015 17:58:05 AIM Revision: 1.0 26-May-2015 13:41:26

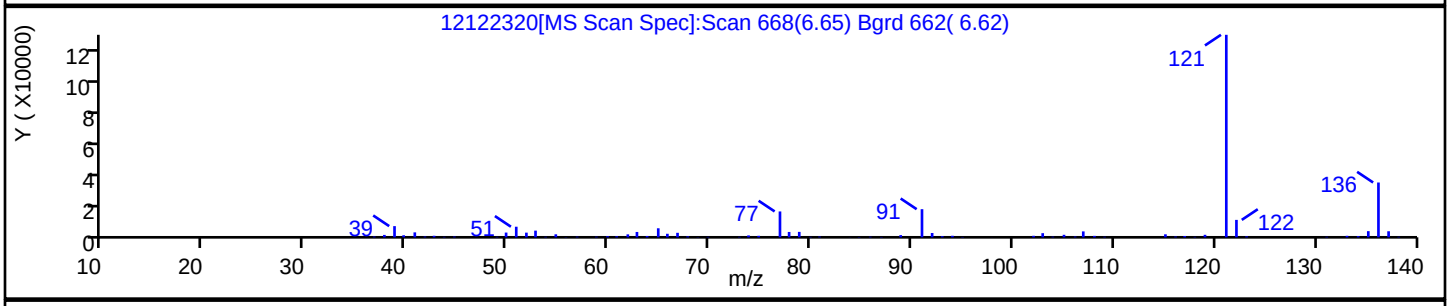
Shealy Environmental Services

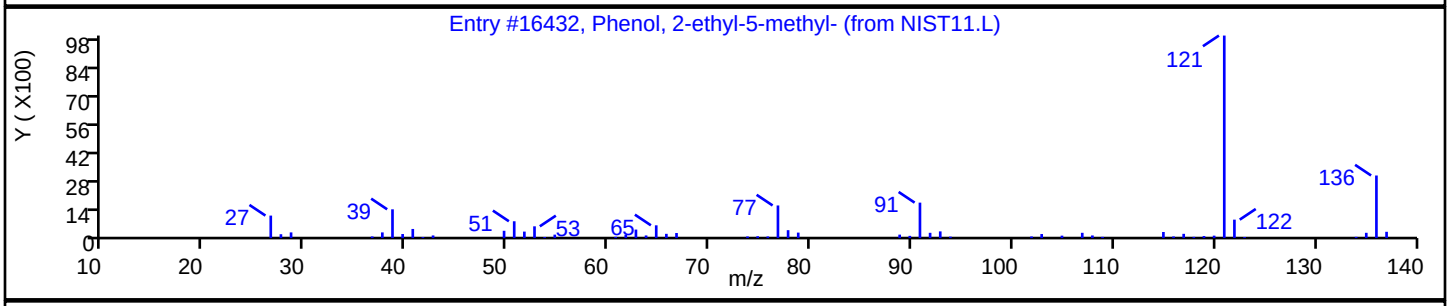
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122320.D		
Injection Date:	23-Dec-2015 17:31:30	Inst. ID:	msd12.i
Client ID:	F6R32DL2	Lab ID:	QL16010-002
Sample Info:	12122315.b, QL16010-002		
Injection Vol.	1.00 1	Dil. Factor:	2000.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

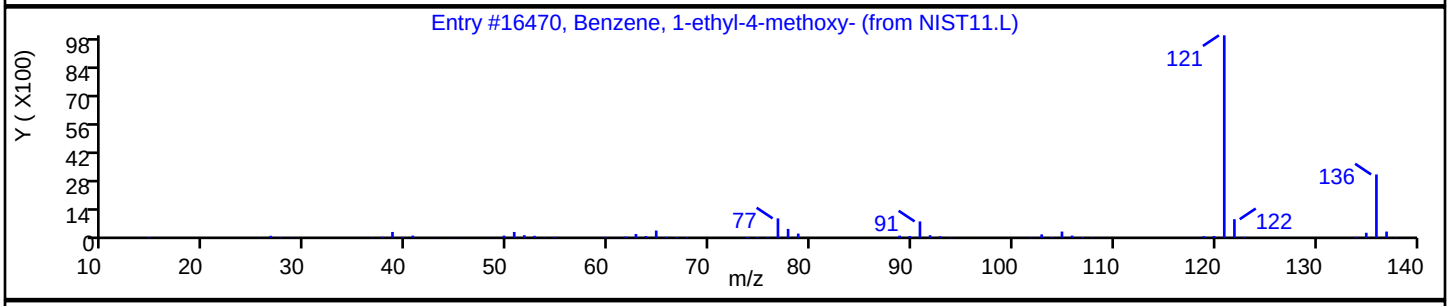
TIC @ 6.645

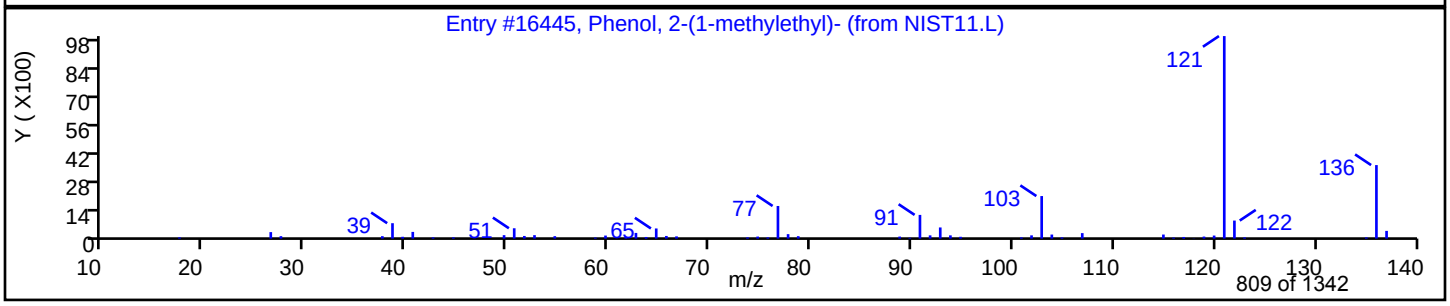
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-5-methyl-	1687-61-2	NIST11	16432	C9H12O	136	91
Benzene, 1-ethyl-4-methoxy-	1515-95-3	NIST11	16470	C9H12O	136	91
Phenol, 2-(1-methylethyl)-	88-69-7	NIST11	16445	C9H12O	136	91











FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 12122221

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 8 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	40	U
100-52-7	Benzaldehyde	200	U
108-95-2	Phenol	23	J B
111-44-4	Bis(2-Chloroethyl) ether	200	U
95-57-8	2-Chlorophenol	100	U
95-48-7	2-Methylphenol	180	J B
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	200	U
106-44-5	4-Methylphenol	97	J B
621-64-7	N-Nitroso-di-n propylamine	100	U
67-72-1	Hexachloroethane	100	U
98-95-3	Nitrobenzene	100	U
78-59-1	Isophorone	100	U
88-75-5	2-Nitrophenol	100	U
105-67-9	2,4-Dimethylphenol	970	B
111-91-1	Bis(2-chloroethoxy)methane	100	U
120-83-2	2,4-Dichlorophenol	100	U
91-20-3	Naphthalene	32	J
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	100	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	100	U
91-57-6	2-Methylnaphthalene	36	J
77-47-4	Hexachlorocyclo-pentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	100	U
95-95-4	2,4,5-Trichlorophenol	100	U
92-52-4	1,1'-Biphenyl	100	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 12122221

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 8 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	100	U
88-74-4	2-Nitroaniline	100	U
131-11-3	Dimethylphthalate	100	U
606-20-2	2,6-Dinitrotoluene	100	U
208-96-8	Acenaphthylene	100	U
99-09-2	3-Nitroaniline	200	U
83-32-9	Acenaphthene	100	U
51-28-5	2,4-Dinitrophenol	200	U
100-02-7	4-Nitrophenol	200	U
132-64-9	Dibenzofuran	100	U
121-14-2	2,4-Dinitrotoluene	100	U
84-66-2	Diethylphthalate	100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U
7005-72-3	4-Chlorophenyl-phenyl ether	100	U
86-73-7	Fluorene	100	U
100-01-6	4-Nitroaniline	200	U
534-52-1	4,6-Dinitro-2-methylphenol	200	U
101-55-3	4-Bromophenyl-phenylether	100	U
86-30-6	N-Nitrosodiphenylamine	100	U
118-74-1	Hexachlorobenzene	100	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	200	U
85-01-8	Phenanthrene	12	J
120-12-7	Anthracene	100	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	100	U
206-44-0	Fluoranthene	200	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 12122221

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 8 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	9.1	J
85-68-7	Butylbenzylphthalate	100	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	100	U
218-01-9	Chrysene	100	U
117-81-7	Bis(2-ethylhexyl)phthalate	100	U
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	100	U
207-08-9	Benzo(k)fluoranthene	100	U
50-32-8	Benzo(a)pyrene	100	U
193-39-5	Indeno(1,2,3-cd)pyrene	100	U
53-70-3	Dibenzo(a,h)anthracene	100	U
191-24-2	Benzo(g,h,i)perylene	100	U
58-90-2	2,3,4,6-Tetrachlorophenol	100	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R33

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-003
Sample wt/vol: 1000 (g/mL) mL
Lab File ID: 12122221
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 8 Dilution Factor: 20.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	526-73-8	Benzene, 1,2,3-trimethyl-	5.33	85	NJ
02	95-63-6	Benzene, 1,2,4-trimethyl-	5.51	75	NJ
03		Unknown-01	5.87	100	J
04	576-26-1	Phenol, 2,6-dimethyl-	5.98	230	NJ
05	90-00-6	Phenol, 2-ethyl-	6.08	59	NJ
06	108-68-9	Phenol, 3,5-dimethyl-	6.27	290	NJ
07	526-75-0	Phenol, 2,3-dimethyl-	6.34	70	NJ
08		Unknown-02	6.42	170	J
09	17301-23-4	Undecane, 2,6-dimethyl-	6.48	64	NJ
10	1687-64-5	Phenol, 2-ethyl-6-methyl-	6.58	96	NJ
11	1123-94-0	Phenol, 4-ethyl-3-methyl-	6.65	250	NJ
12	3855-26-3	Phenol, 2-ethyl-4-methyl-	6.74	150	NJ
13					
14	527-54-8	Phenol, 3,4,5-trimethyl-	6.82	66	NJ
15	88-69-7	Phenol, 2-(1-methylethyl)-	6.85	100	NJ
16	3228-02-2	3-Methyl-4-isopropylphenol	6.93	91	NJ
17		Unknown-03	7.01	63	J
18	90-12-0	Naphthalene, 1-methyl-	7.19	70	NJ
19					
20					
21		Unknown-04	7.44	50	J
22	581-42-0	Naphthalene, 2,6-dimethyl-	7.63	59	NJ
23					
24					
25					
26		Unknown-05	9.44	41	J
27		Unknown-06	9.81	46	J
28	1576-69-8	Phenanthrene, 2,7-dimethyl-	10.21	41	NJ
29					
30					
	E966796[2]	Total Alkanes	N/A	423	J

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Lab Sample ID:	QL16010-003	Client Sample ID:	F6R33
Injection Date:	22-Dec-2015 19:05:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-003		
Misc. Info:	92747 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	18
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	06-Jan-2016 10:10:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.117	5.123	-0.006	35164	1.0435	20.871	Qe
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	2852	0.23140	4.6280	e
4 Phenol	94.0	5.128	5.134	-0.006	41553	1.1350	22.699	Qe
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.187	5.192	-0.005	24709	1.0872	21.743	Qe
5 bis(2-Chloroethyl)Ether	93.0		5.230		ND			
$ 6 2-Chlorophenol-d4	132.0	5.293	5.299	-0.006	27367	1.2276	24.551	Qe
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	367881	20.000	400.00	
10 2-Methylphenol	108.0	5.609	5.614	-0.005	216942	8.7578	175.16	e
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.699	5.710	-0.011	27820	1.1366	22.732	e
14 4-Methylphenol	108.0	5.726	5.732	-0.006	129833	4.8311	96.623	e
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.913	-0.005	17174	1.1629	23.258	e
17 Nitrobenzene	77.0		5.930		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	1563232	48.515	970.30	
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	18741	1.1081	22.162	Qe
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			

Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122221.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.368	-0.006	23349	0.94046	18.809	e
22 2,4-Dichlorophenol	162.0		6.373		ND			
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1708273	20.000	400.00	
24 Naphthalene	128.0	6.533	6.533	0.000	147916	1.6064	32.128	Qe
$ 97 4-Chloroaniline-d4	131.0	6.527	6.544	-0.017	36326	0.97060	19.412	Qe
25 4-Chloroaniline	127.0		6.549		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.918		ND			
29 2-Methylnaphthalene	142.0	7.099	7.105	-0.006	106564	1.7935	35.870	e
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.522		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.687	-0.011	69515	1.2280	24.560	e
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.863	7.869	-0.006	45429	0.60652	12.130	e
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	866666	20.000	400.00	
43 2,4-Dinitrophenol	184.0		8.018		ND			
42 Acenaphthene	153.0		8.024		ND			
$ 100 4-Nitrophenol-d4	143.0	8.034	8.034	0.000	19130	1.3822	27.644	Qe
44 4-Nitrophenol	109.0		8.040		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.429	8.435	-0.006	28539	0.53733	10.747	e
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0		8.472		ND			
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.943		ND			
57 Pentachlorophenol	266.0		9.087		ND			
* 58 Phenanthrene-d10	188.0	9.268	9.268	0.000	1557088	20.000	400.00	
59 Phenanthrene	178.0	9.284	9.290	-0.006	50328	0.58046	11.609	Qe
$ 103 Anthracene-d10	188.0	9.311	9.316	-0.005	45849	0.57756	11.551	Qe
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.664		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0		10.636		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
64 Pyrene	202.0	10.652	10.663	-0.011	42633	0.45288	9.0576	e
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.004		ND			
68 3,3'-Dichlorobenzidine	252.0		12.068		ND			
67 Benzo(a)anthracene	228.0		12.159		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1784198	20.000	400.00	
70 Chrysene	228.0		12.217		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.852		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.450	14.317	0.133	1757613	20.585	411.69	QR
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.450	14.461	-0.011	1761368	20.000	400.00	
77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit
Q - Qualifier Signal(s) Fails Ratio Test
R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Lab Sample ID:	QL16010-003	Client Sample ID:	F6R33
Injection Date:	22-Dec-2015 19:05:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-003		
Misc. Info:	92747 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	18
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	06-Jan-2016 10:10:30

Tentative Identified Compound Results

RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
526-73-8 Benzene, 1,2,3-trimethyl-								
5.325	531642	4.2462	84.924	8	95	9412	C9H12	120
95-63-6 Benzene, 1,2,4-trimethyl-								
5.507	470183	3.7553	75.107	8	93	9410	C9H12	120
Unknown								
5.865	634992	5.0717	101.43	8				
576-26-1 Phenol, 2,6-dimethyl-								
5.983	1468540	11.729	234.58	8	98	9926	C8H10O	122
90-00-6 Phenol, 2-ethyl-								
6.084	717569	2.9372	58.744	23	86	9916	C8H10O	122
108-68-9 Phenol, 3,5-dimethyl-								
6.271	3510081	14.368	287.35	23	94	9933	C8H10O	122
526-75-0 Phenol, 2,3-dimethyl-								
6.335	852223	3.4884	69.767	23	96	9930	C8H10O	122
Unknown								
6.415	2063534	8.4466	168.93	23				
17301-23-4 Undecane, 2,6-dimethyl-								
6.479	780892	3.1964	63.928	23	93	48875	C13H28	184
1687-64-5 Phenol, 2-ethyl-6-methyl-								
6.581	1168087	4.7813	95.625	23	91	16429	C9H12O	136
1123-94-0 Phenol, 4-ethyl-3-methyl-								
6.645	3097911	12.681	253.61	23	91	16430	C9H12O	136
3855-26-3 Phenol, 2-ethyl-4-methyl-								
6.741	1881642	7.7020	154.04	23	91	16433	C9H12O	136

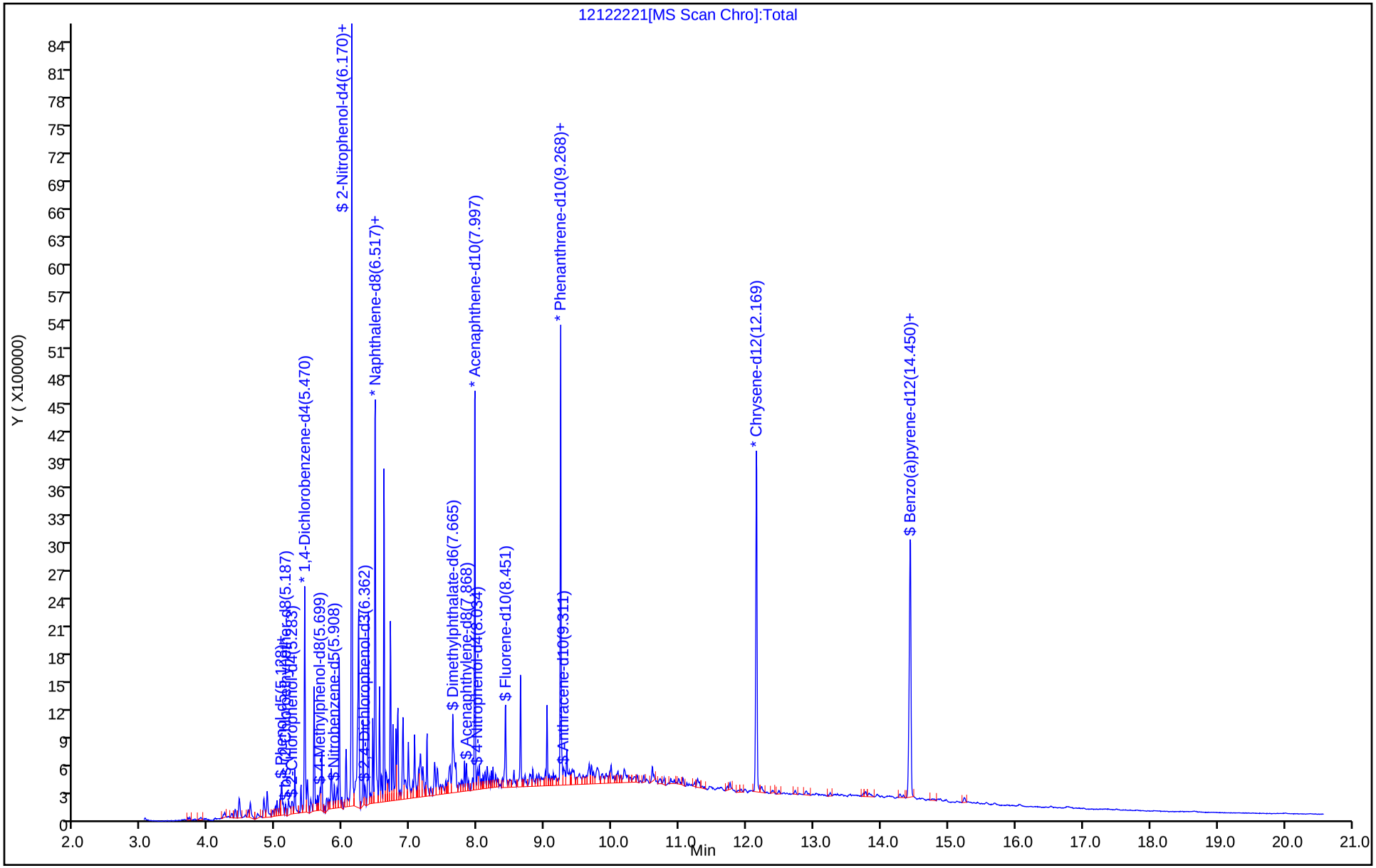
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown Alkane						
6.779	804860	3.2945	65.890	23				
	527-54-8	Phenol, 3,4,5-trimethyl-						
6.821	805511	3.2972	65.943	23	90	16415	C9H12O	136
	88-69-7	Phenol, 2-(1-methylethyl)-						
6.853	1248618	5.1109	102.22	23	90	16451	C9H12O	136
	3228-02-2	3-Methyl-4-isopropylphenol						
6.928	1108112	4.5358	90.715	23	87	23730	C10H14O	150
		Unknown						
7.008	768562	3.1459	62.918	23				
	90-12-0	Naphthalene, 1-methyl-						
7.185	860310	3.5215	70.429	23	93	19235	C11H10	142
		Unknown Alkane						
7.286	668237	3.3634	67.269	41				
		Unknown Alkane						
7.398	534237	2.6890	53.780	41				
		Unknown						
7.436	493711	2.4850	49.700	41				
	581-42-0	Naphthalene, 2,6-dimethyl-						
7.628	586483	2.9520	59.039	41	98	28488	C12H12	156
		Unknown Alkane						
8.670	1302385	5.6238	112.48	58				
		Unknown Alkane						
9.065	787143	3.3989	67.979	58				
		Unknown Alkane						
9.359	669350	2.8903	57.806	58				
		Unknown						
9.439	475969	2.0553	41.105	58				
		Unknown						
9.808	536341	2.3160	46.319	58				
	1576-69-8	Phenanthrene, 2,7-dimethyl-						
10.208	478785	2.0674	41.349	58	93	66262	C16H14	206

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.470	2504083	20.000
* 23 Naphthalene-d8	6.517	4886100	20.000
* 41 Acenaphthene-d10	7.997	3973522	20.000
* 58 Phenanthrene-d10	9.268	4631704	20.000

Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D				
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R33	Lab ID:	QL16010-003		
Sample Info:	12122215.b, QL16010-003				
Injection Vol.	1.00 1	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

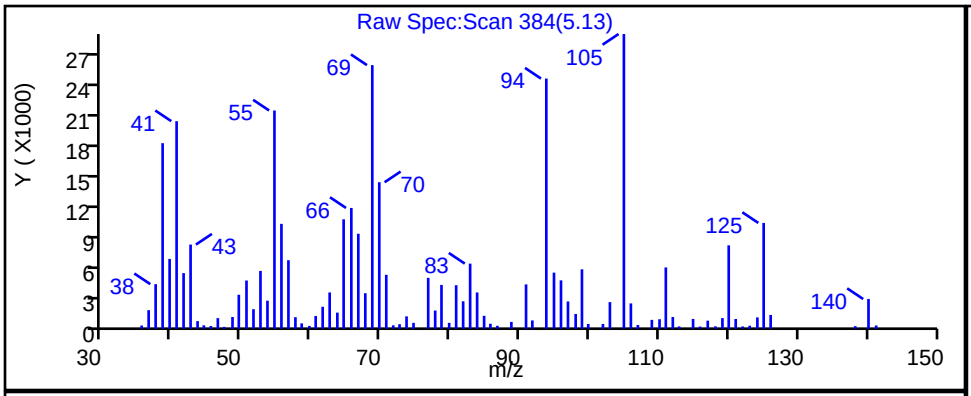


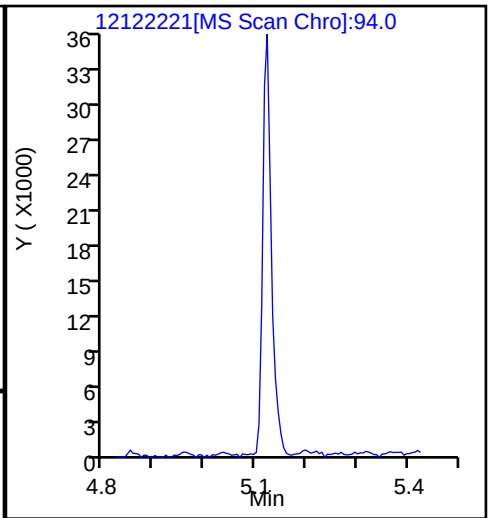
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

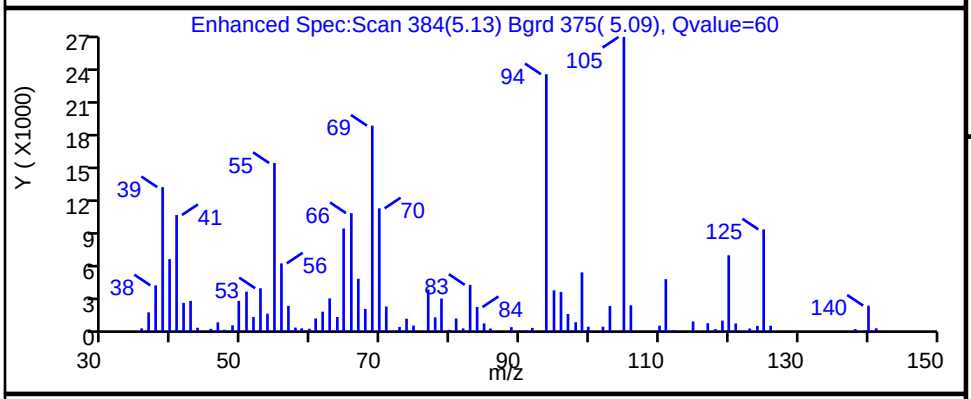
Shealy Environmental Services

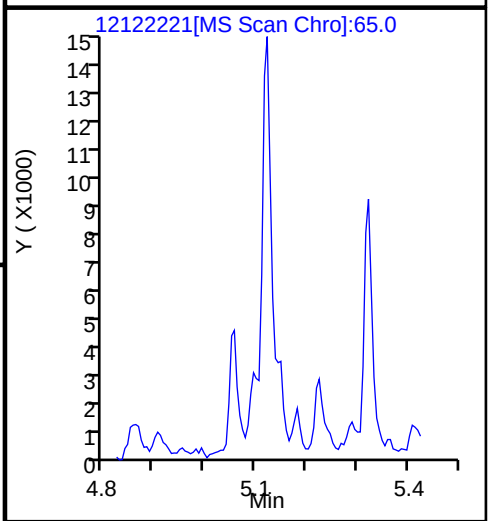
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

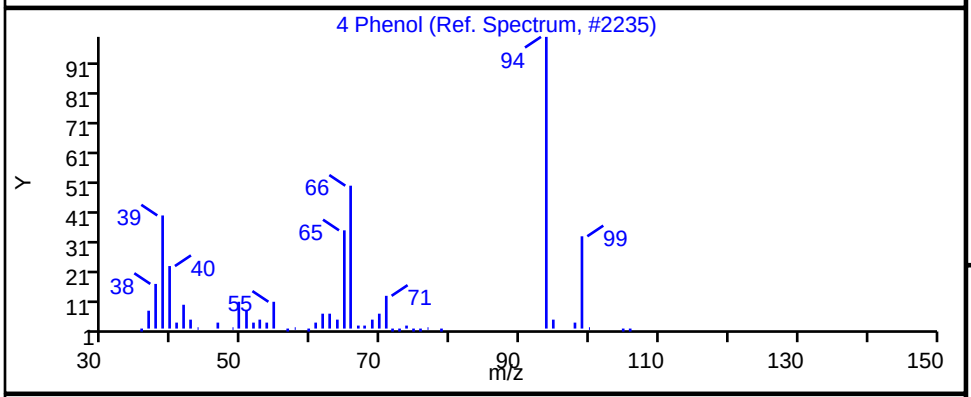
4 Phenol

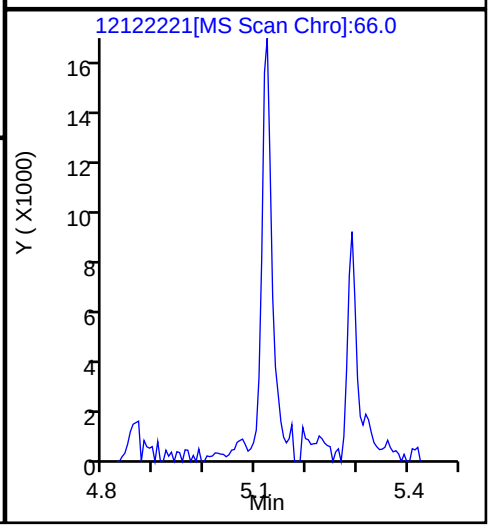


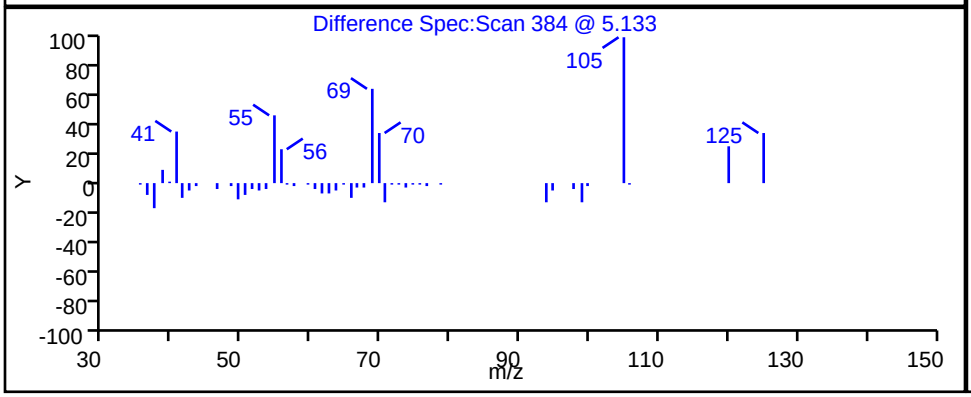












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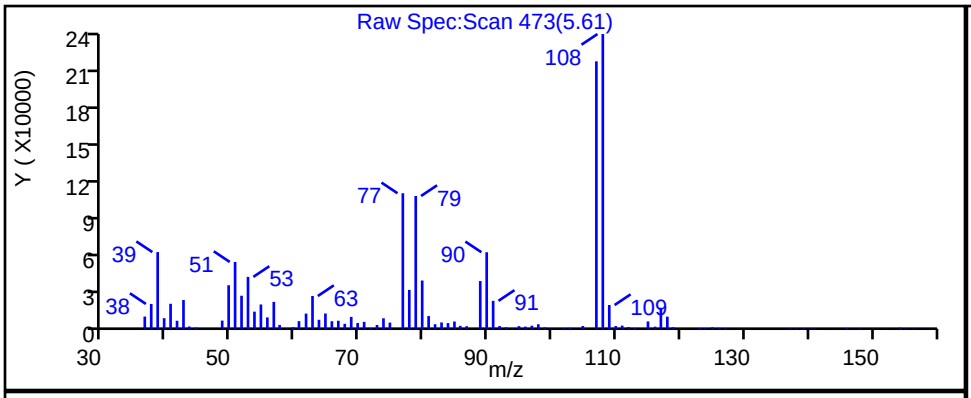
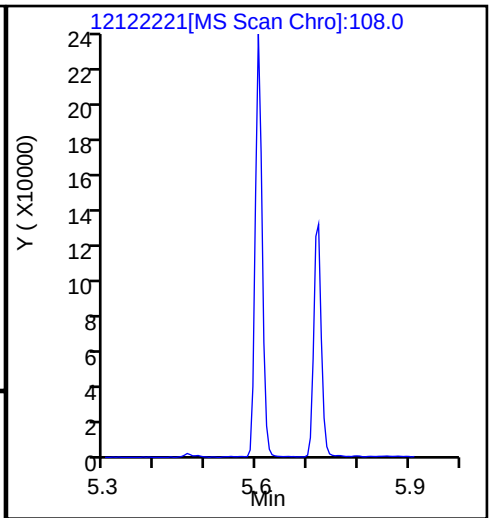
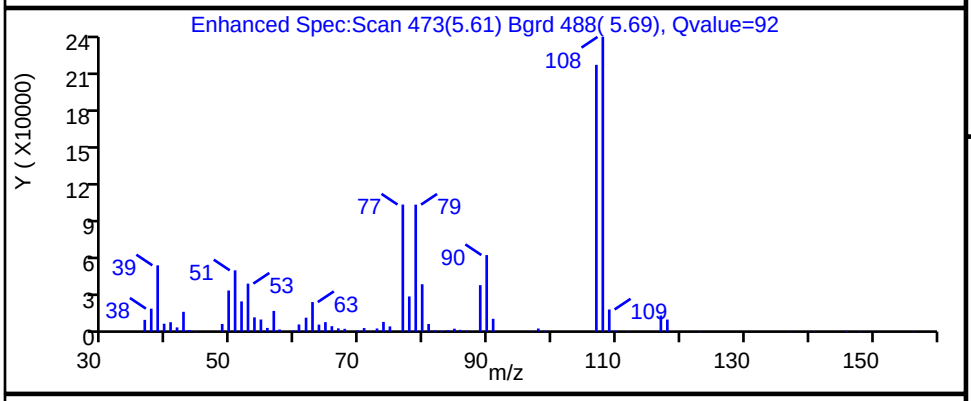
Shealy Environmental Services

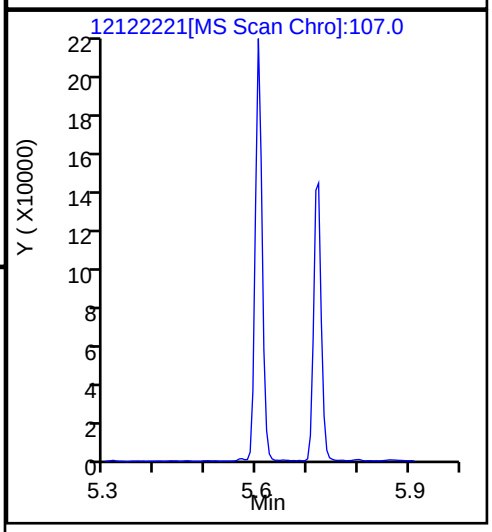
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

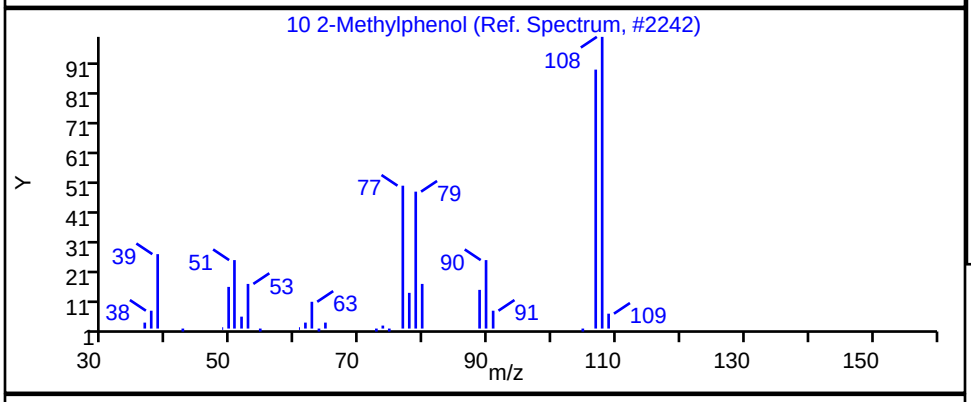
10 2-Methylphenol

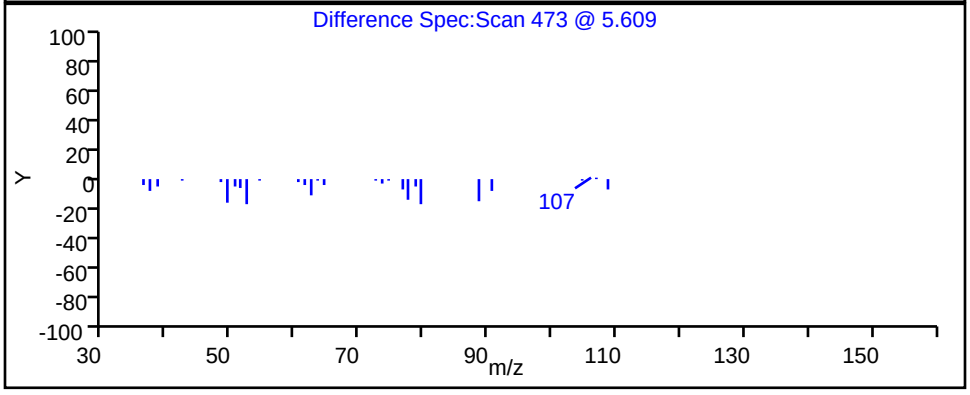










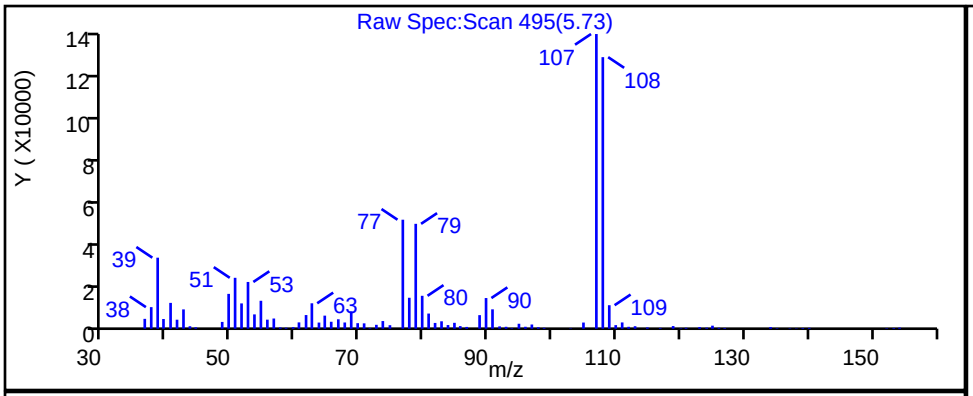


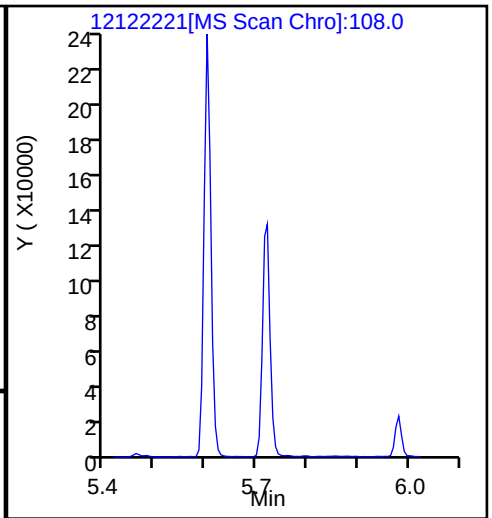
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

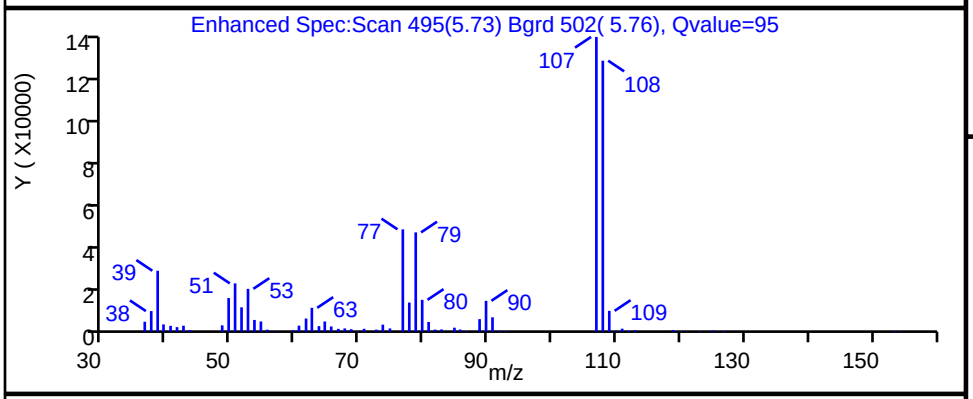
Shealy Environmental Services

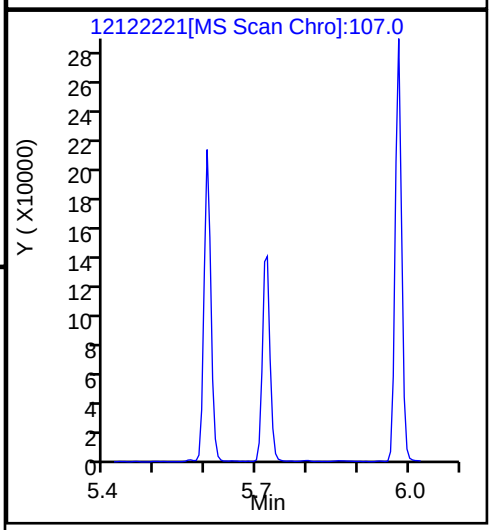
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

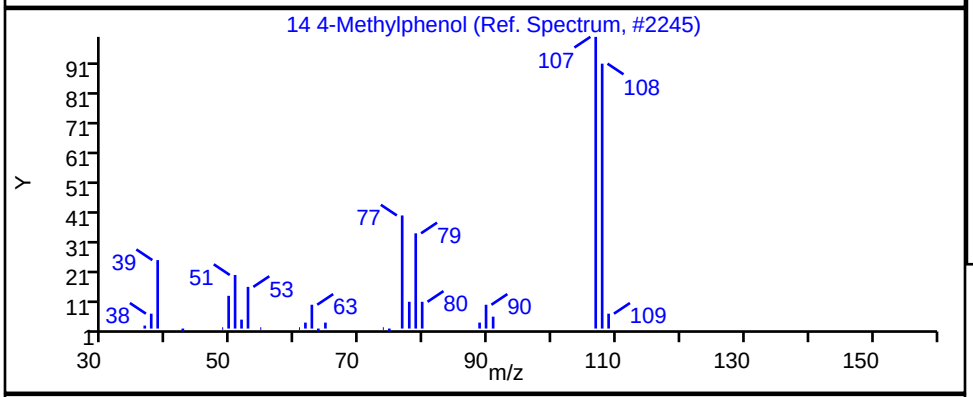
14 4-Methylphenol

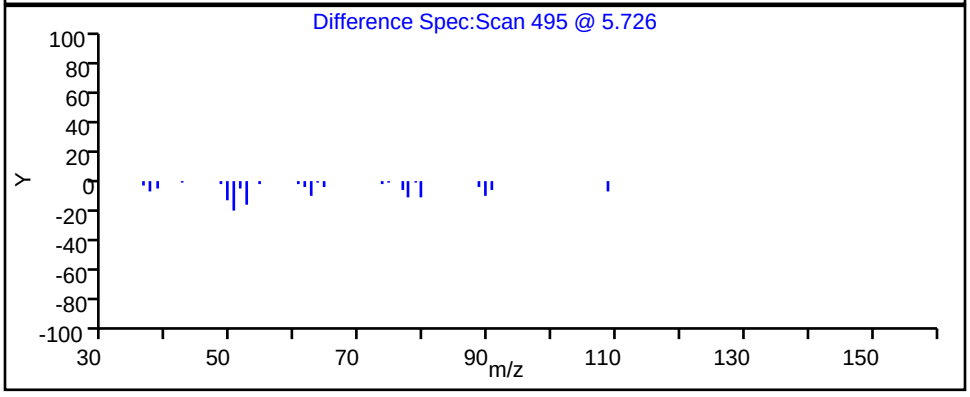










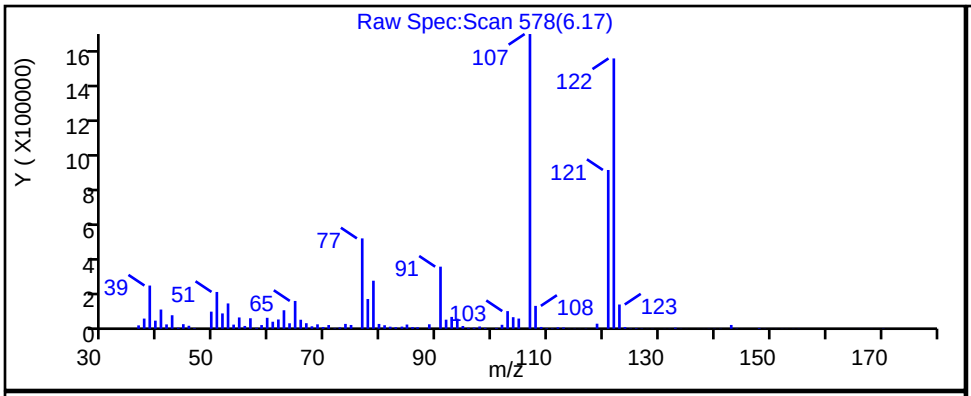


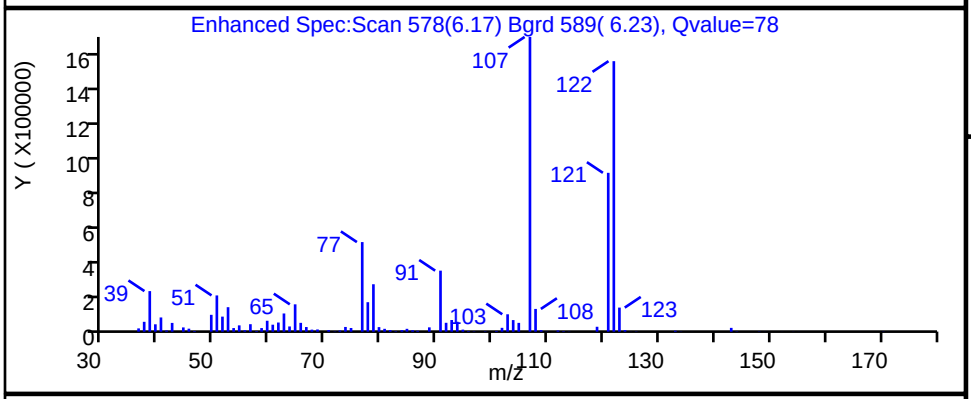
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

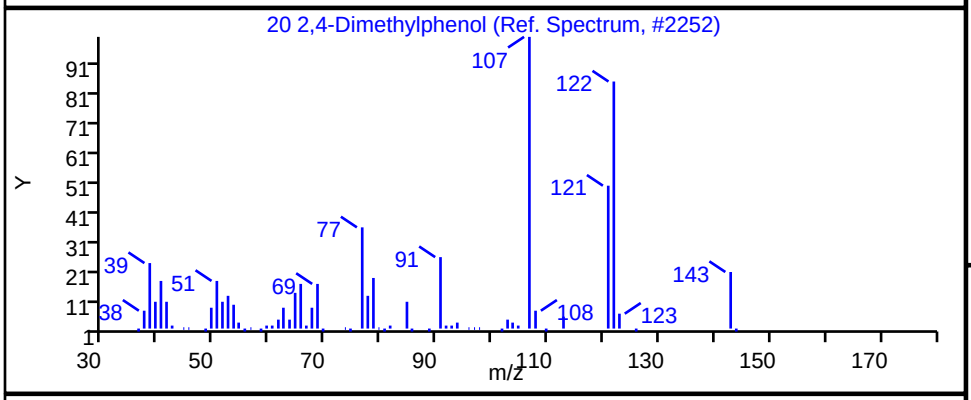
Shealy Environmental Services

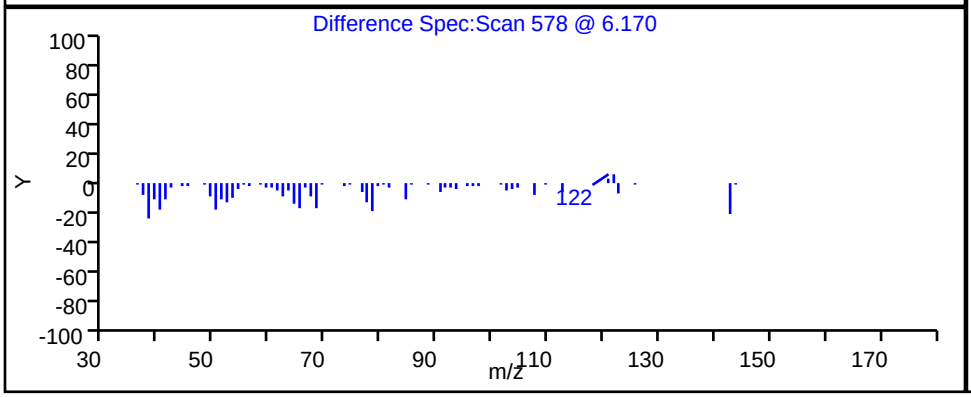
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

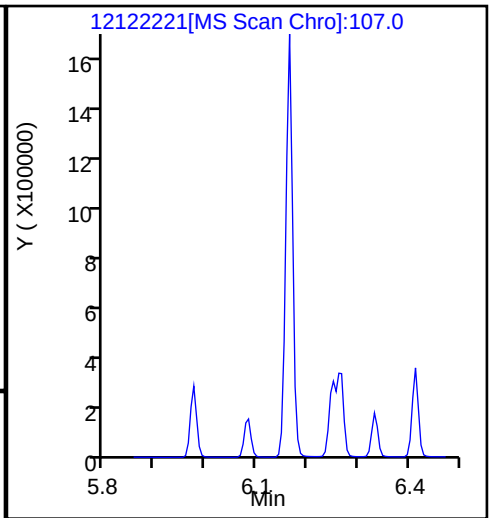
20 2,4-Dimethylphenol

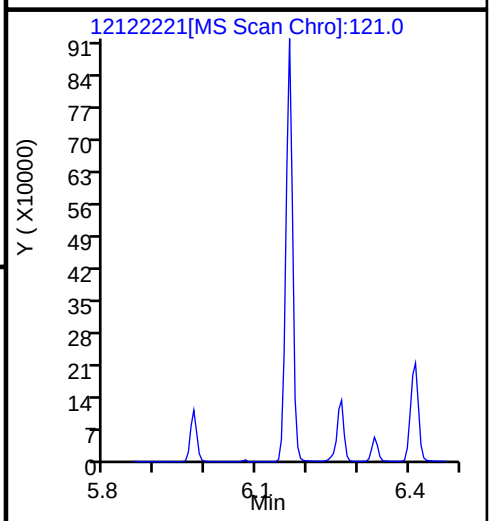


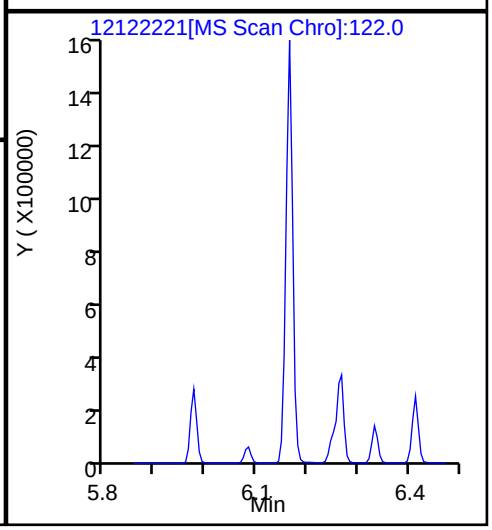










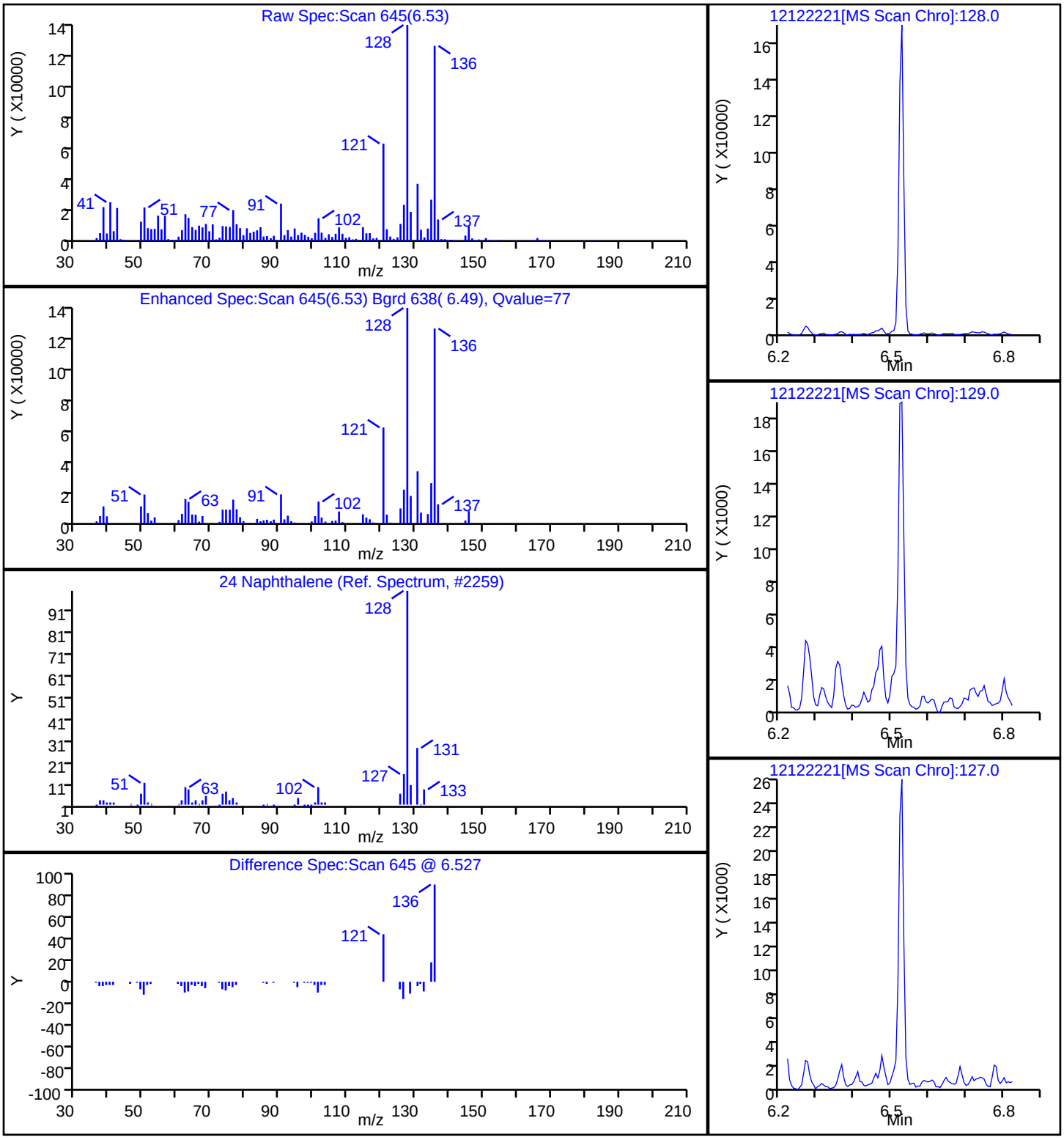


Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene

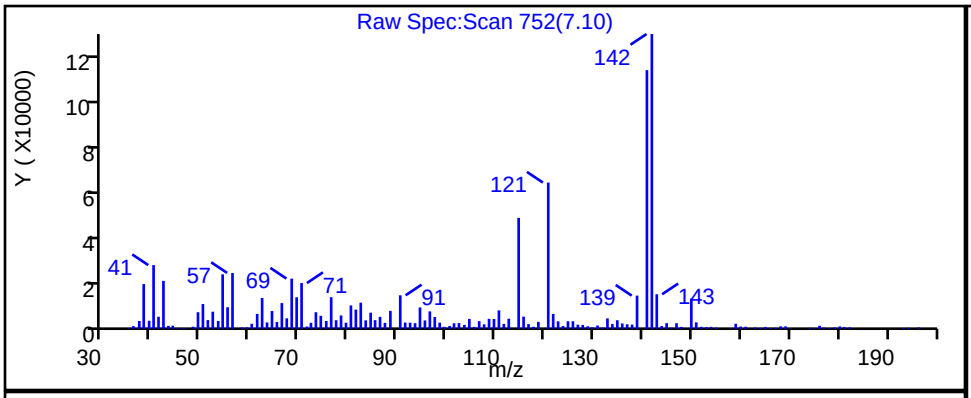


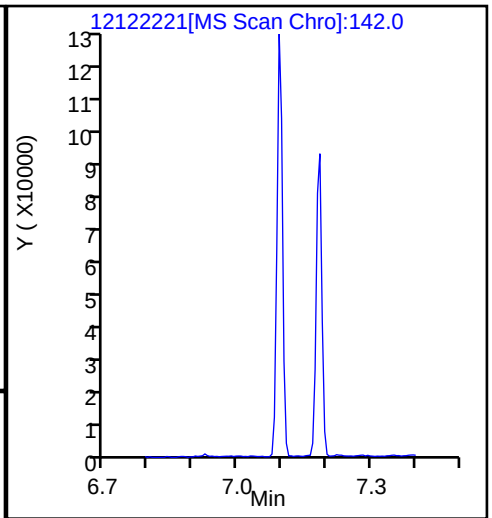
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

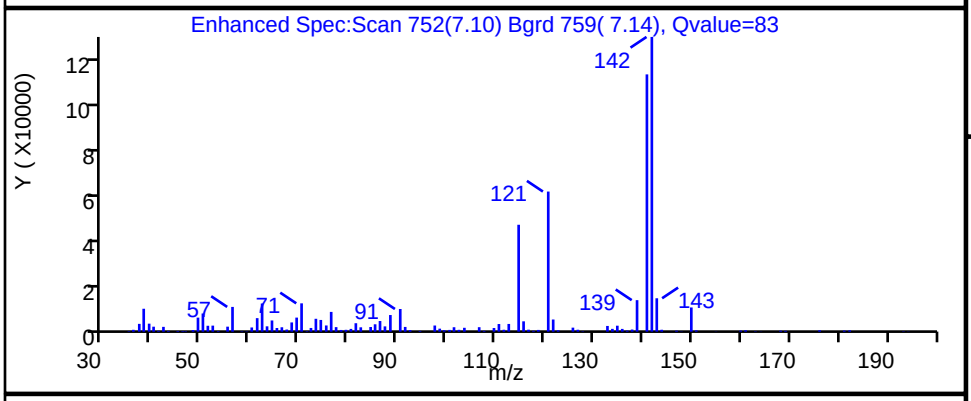
Shealy Environmental Services

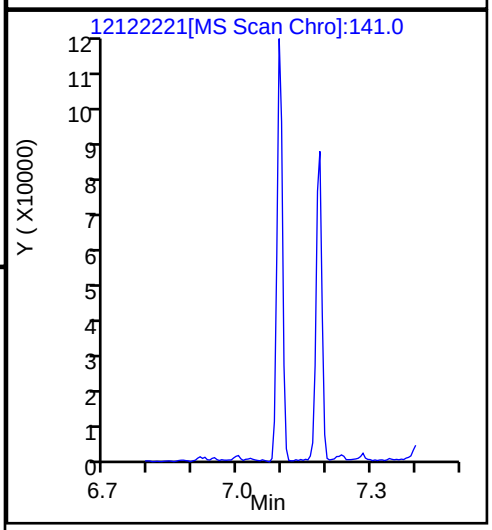
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

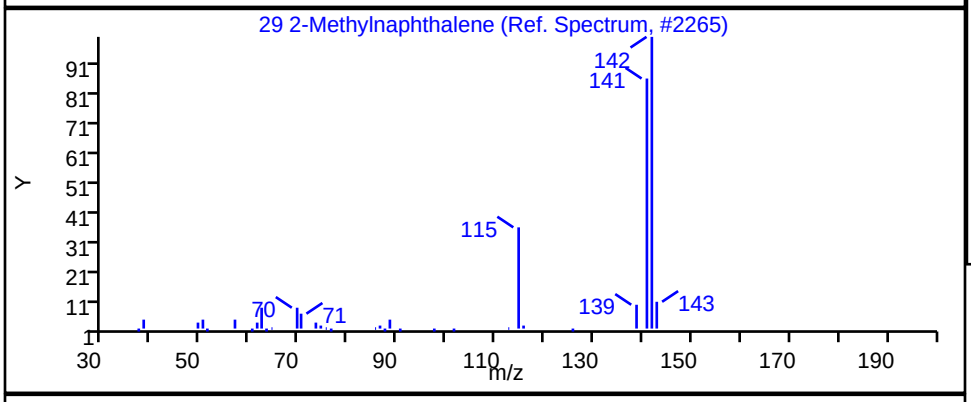
29 2-Methylnaphthalene

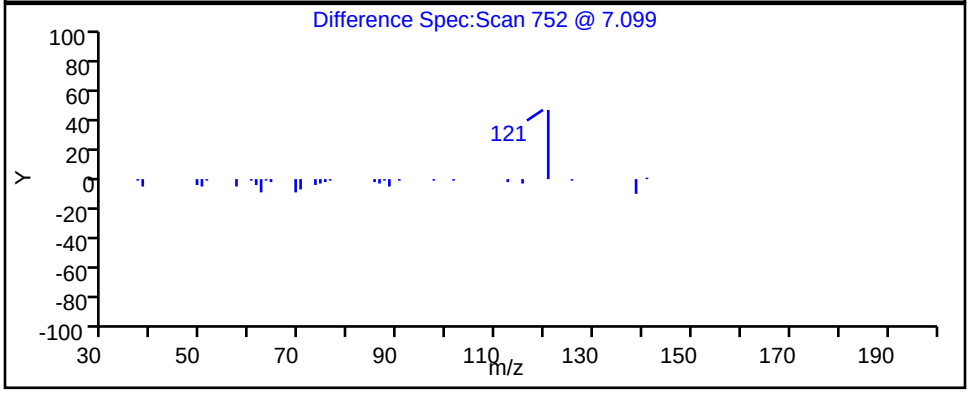










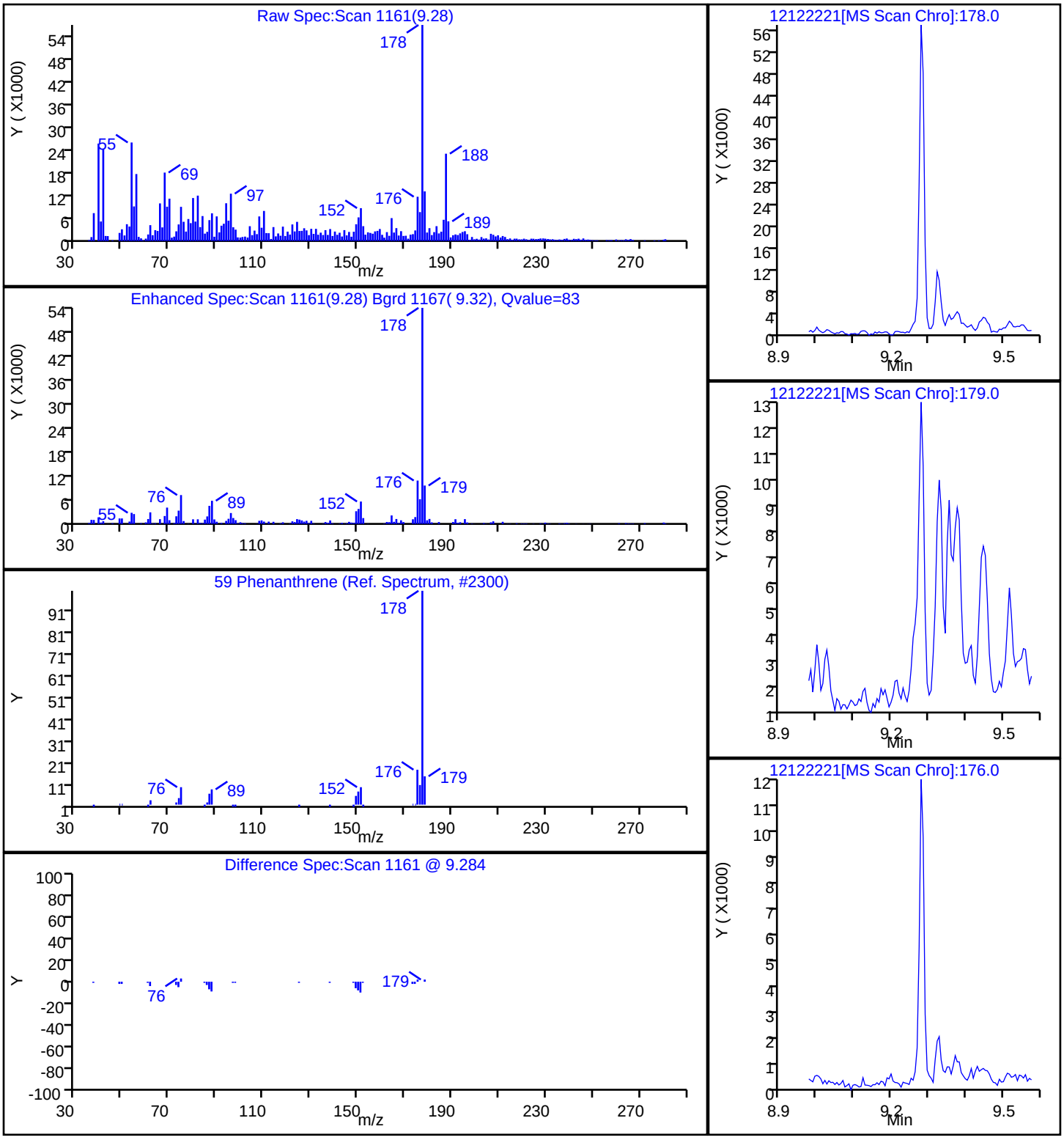


Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene

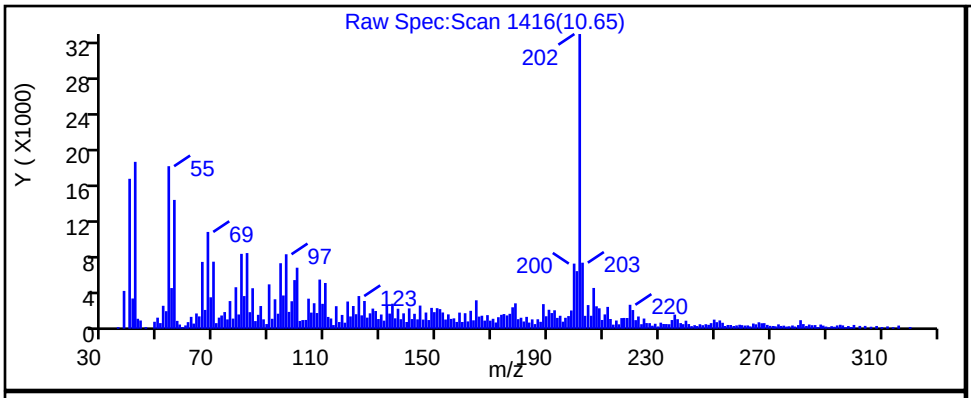


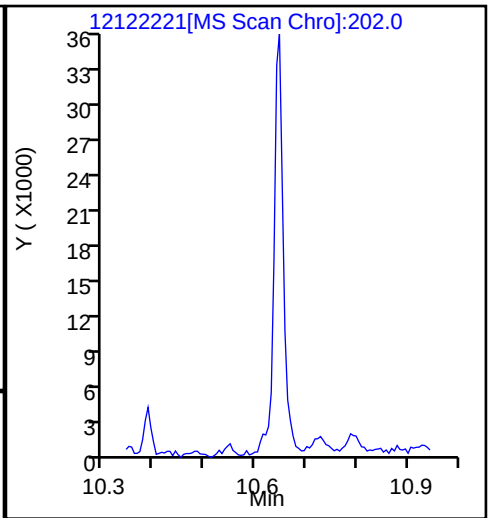
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

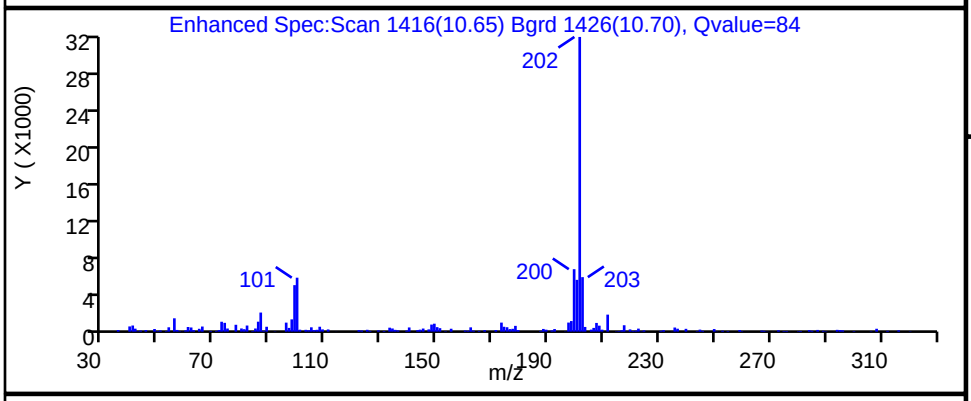
Shealy Environmental Services

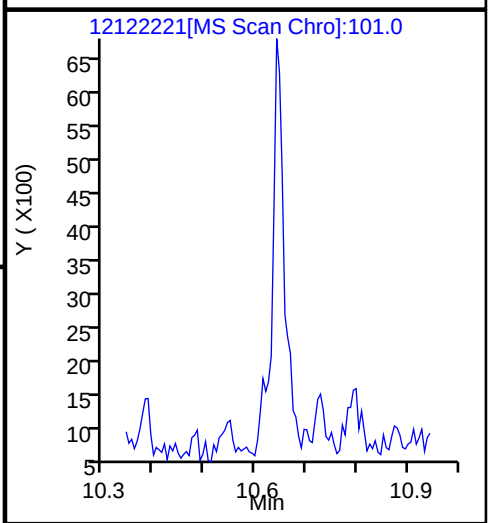
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

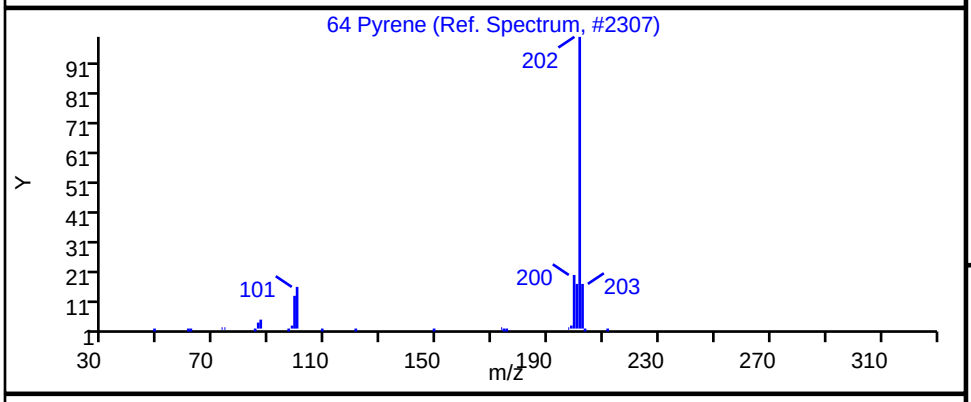
64 Pyrene

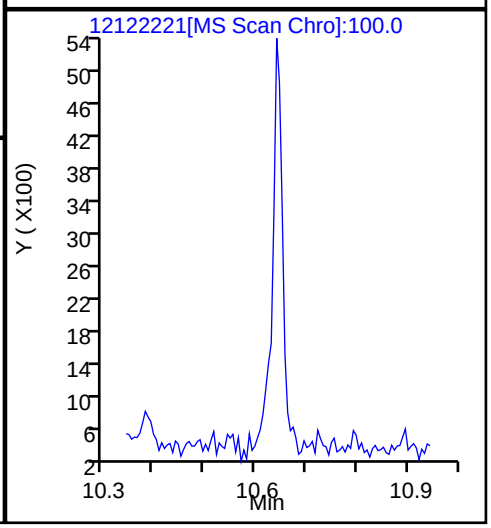


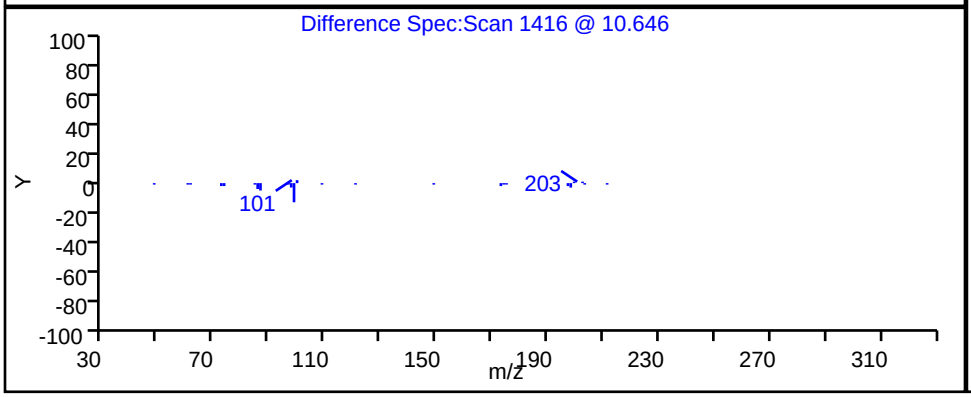












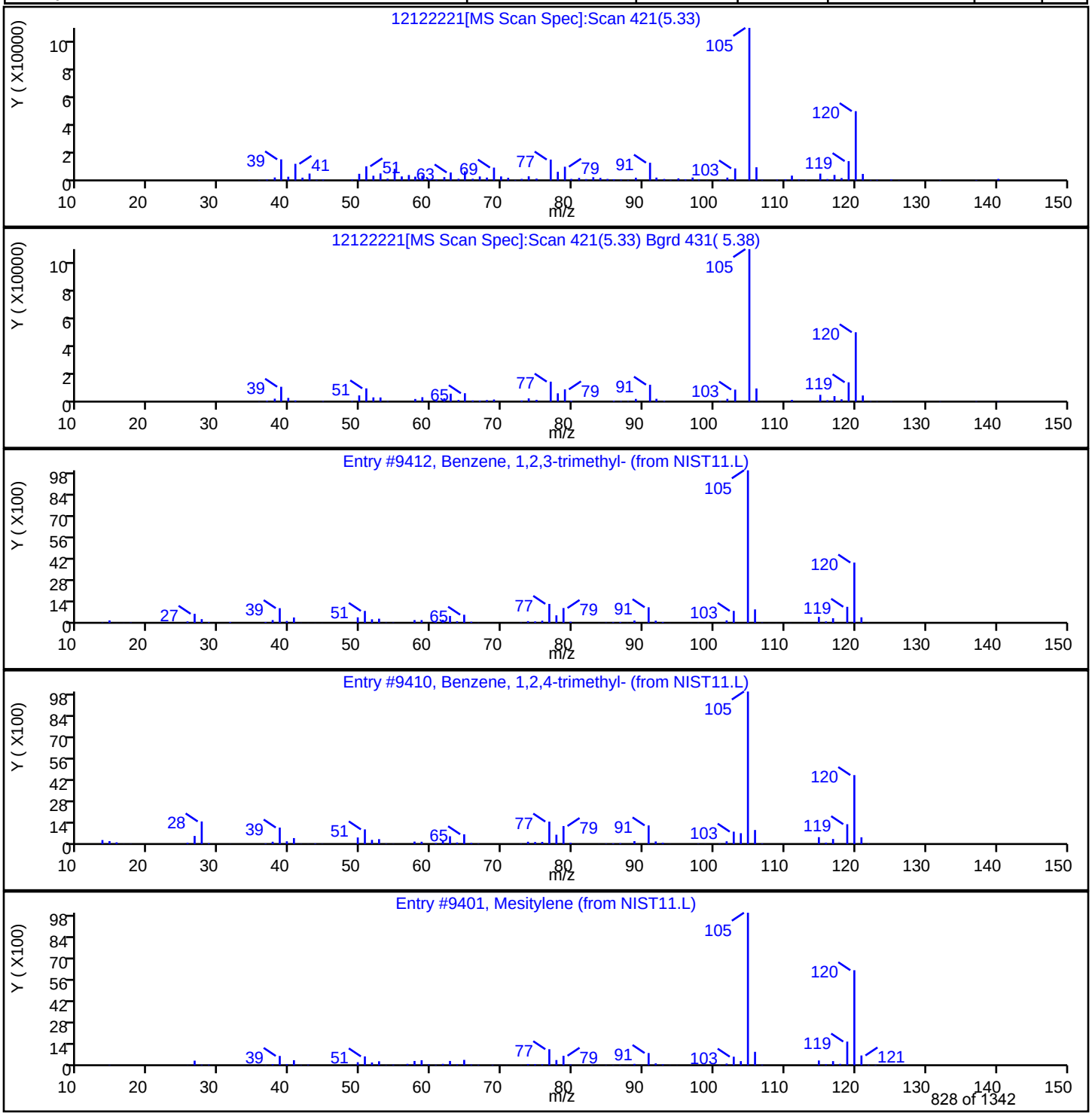
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.325

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,3-trimethyl-	526-73-8	NIST11	9412	C9H12	120	95
Benzene, 1,2,4-trimethyl-	95-63-6	NIST11	9410	C9H12	120	97
Mesitylene	108-67-8	NIST11	9401	C9H12	120	91



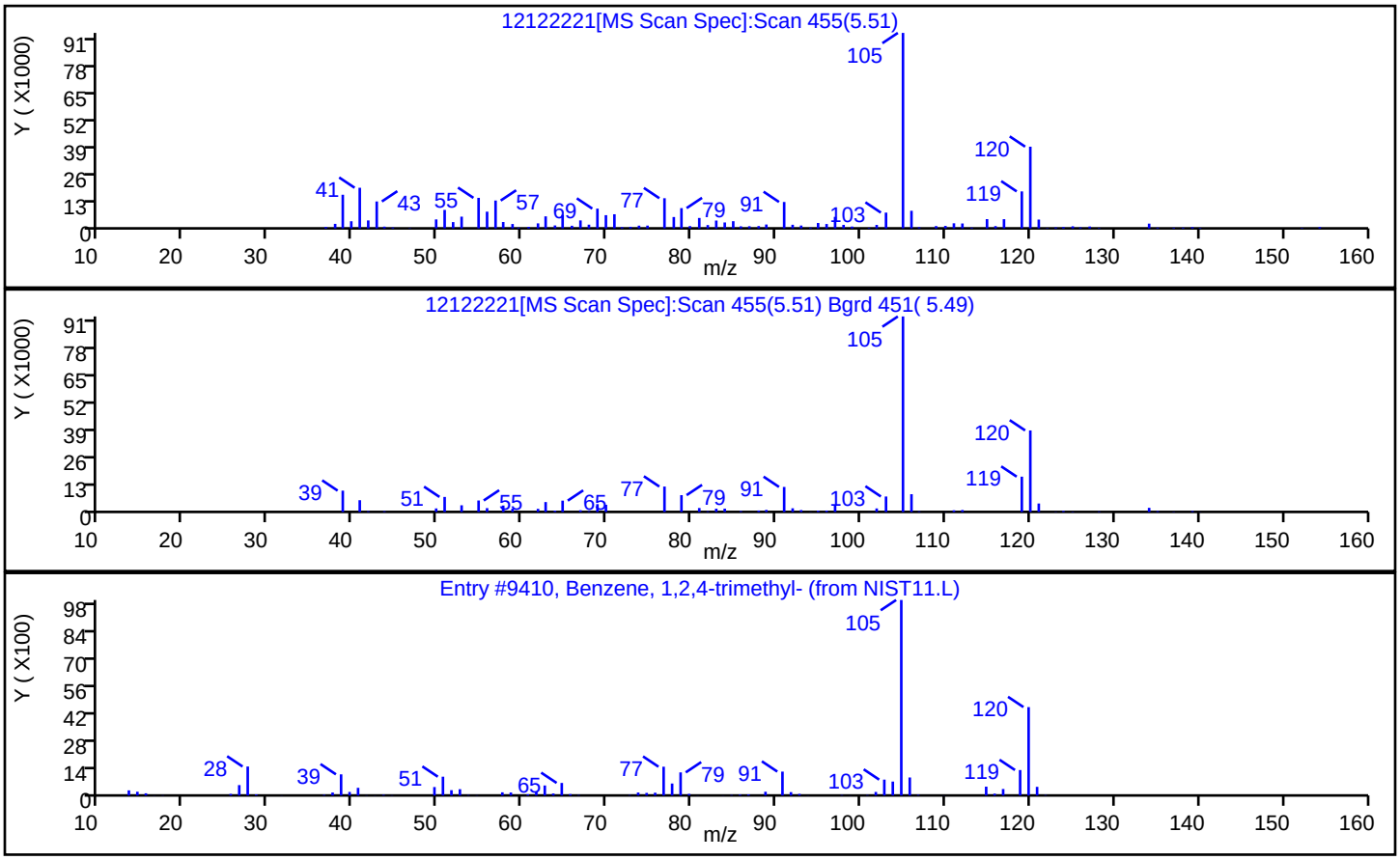
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.507

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Benzene, 1,2,4-trimethyl-	95-63-6	NIST11	9410	C9H12	120	93



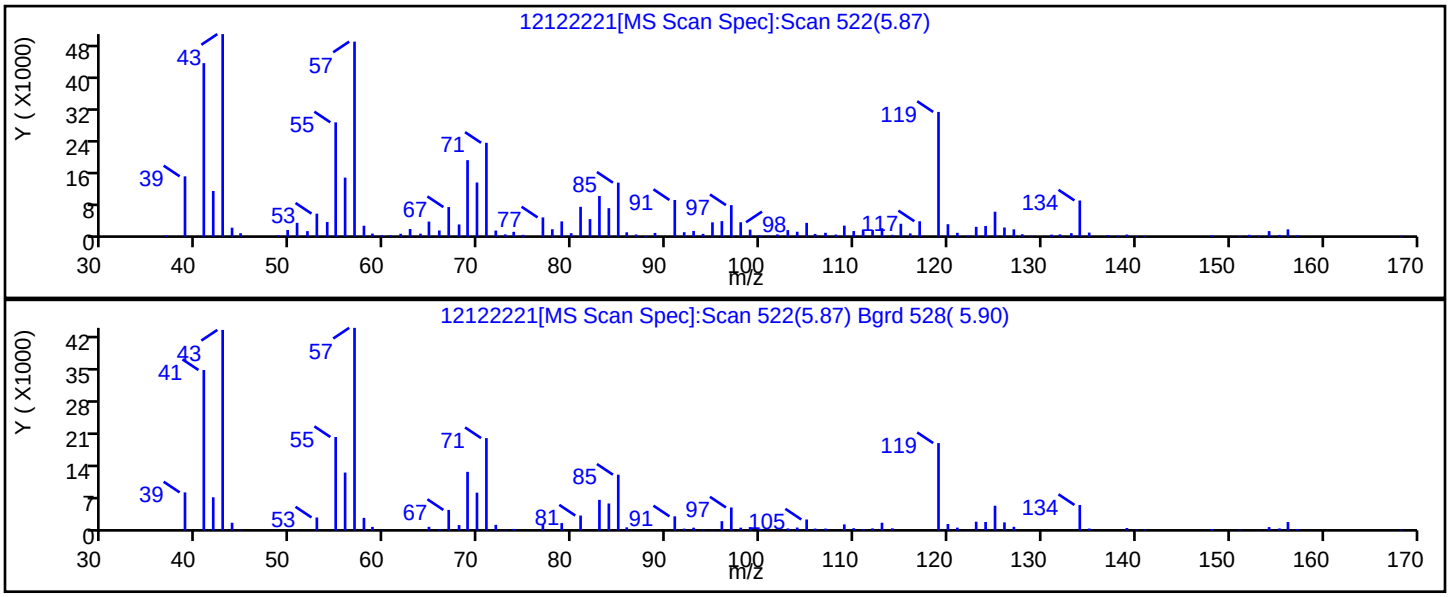
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.865

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



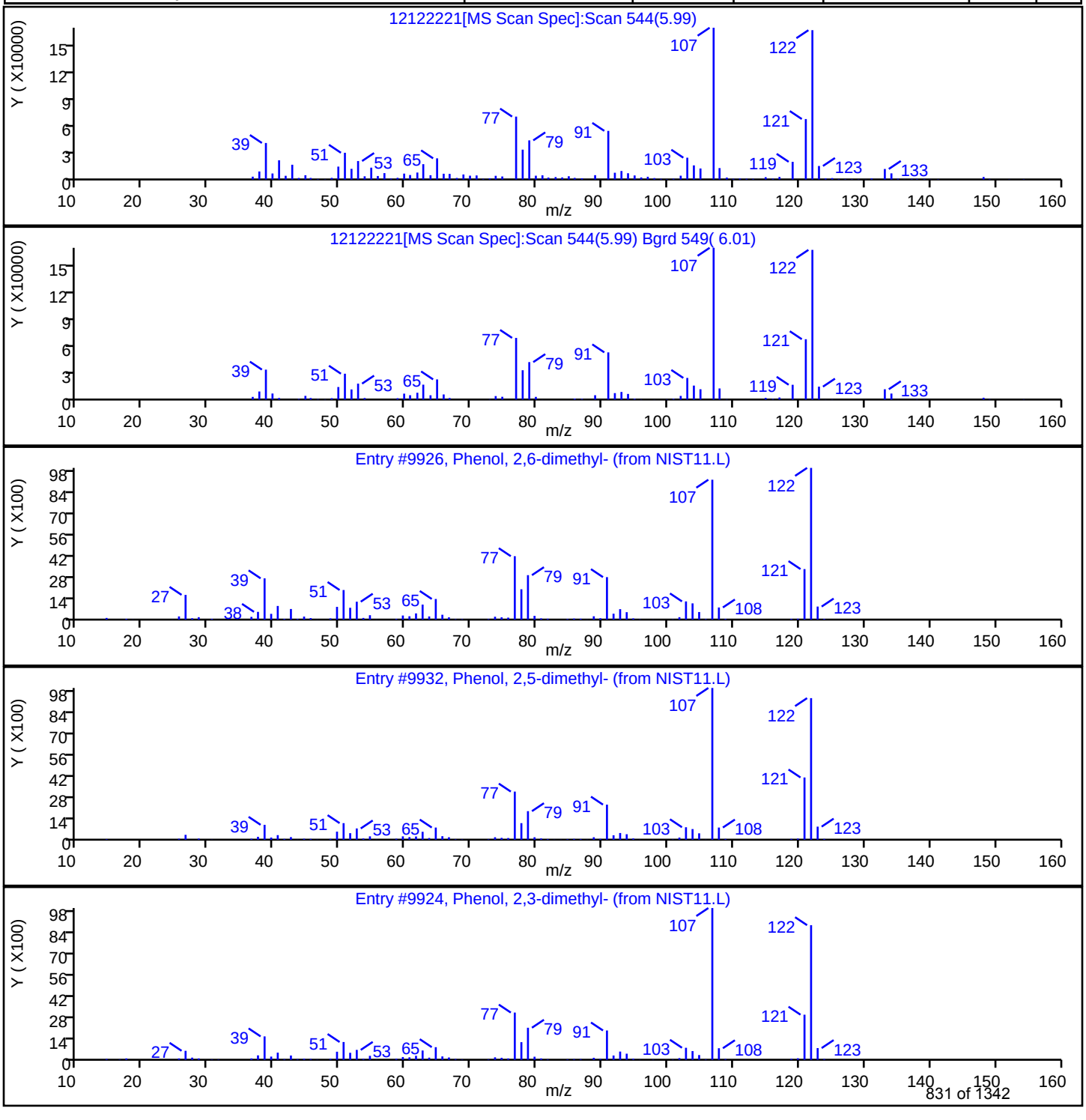
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.983

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,6-dimethyl-	576-26-1	NIST11	9926	C8H10O	122	98
Phenol, 2,5-dimethyl-	95-87-4	NIST11	9932	C8H10O	122	97
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9924	C8H10O	122	97



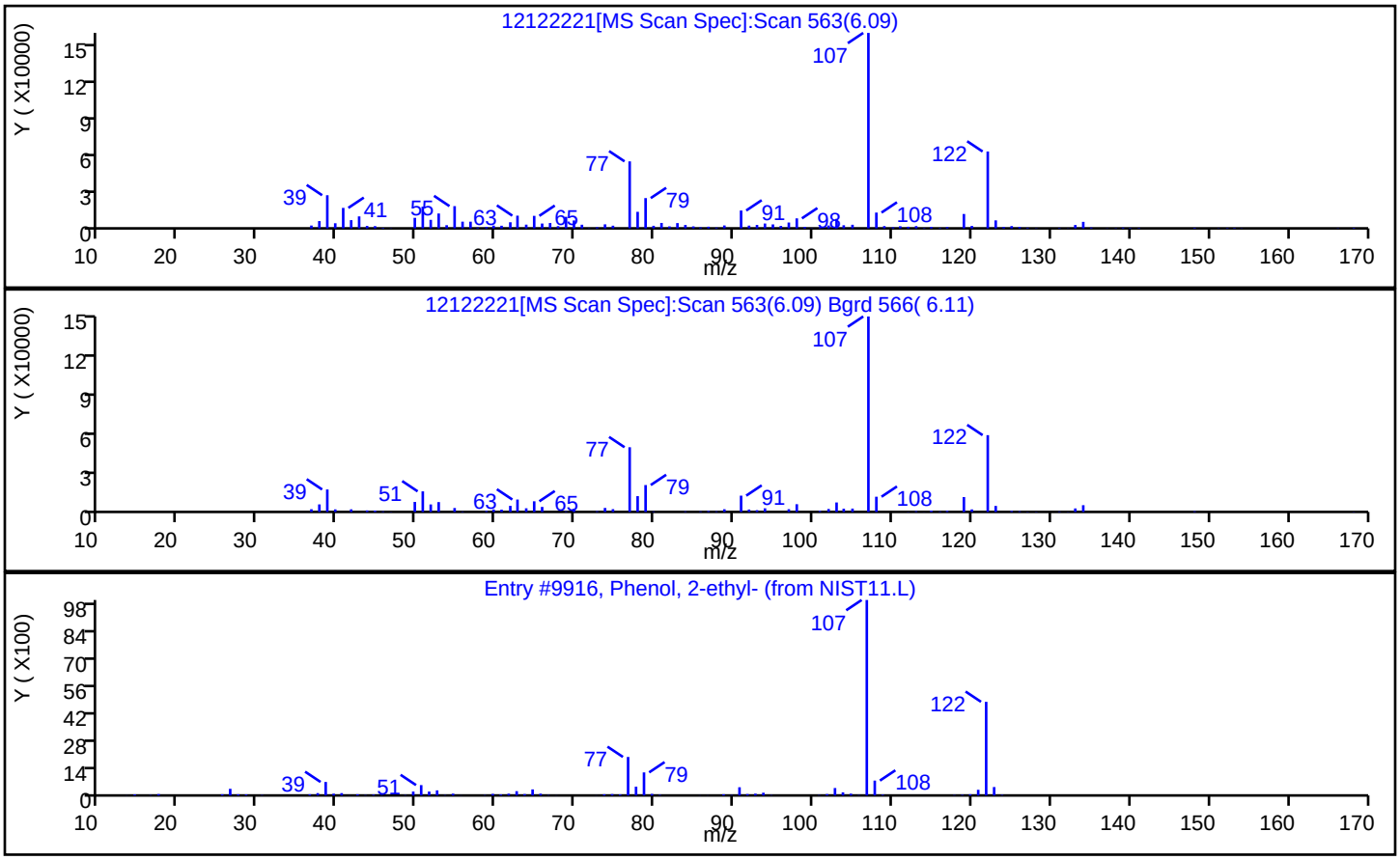
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.084

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-	90-00-6	NIST11	9916	C8H10O	122	86



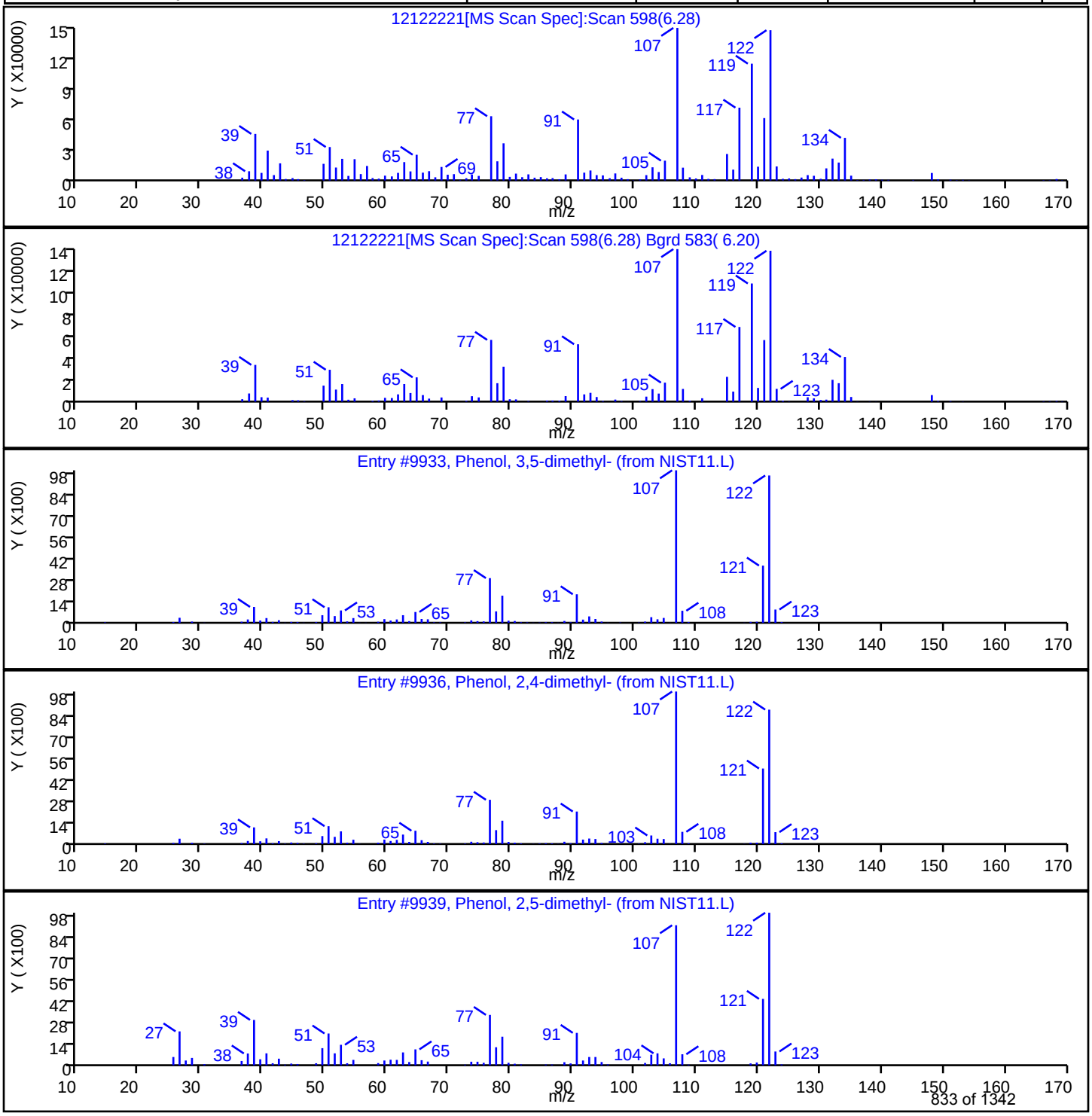
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.271

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,5-dimethyl-	108-68-9	NIST11	9933	C8H10O	122	94
Phenol, 2,4-dimethyl-	105-67-9	NIST11	9936	C8H10O	122	94
Phenol, 2,5-dimethyl-	95-87-4	NIST11	9939	C8H10O	122	90



Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122221.D

Injection Date: 22-Dec-2015 19:05:30 Inst. ID: msd12.i

Client ID: F6R33 Lab ID: QL16010-003

Sample Info: 12122215.b, QL16010-003

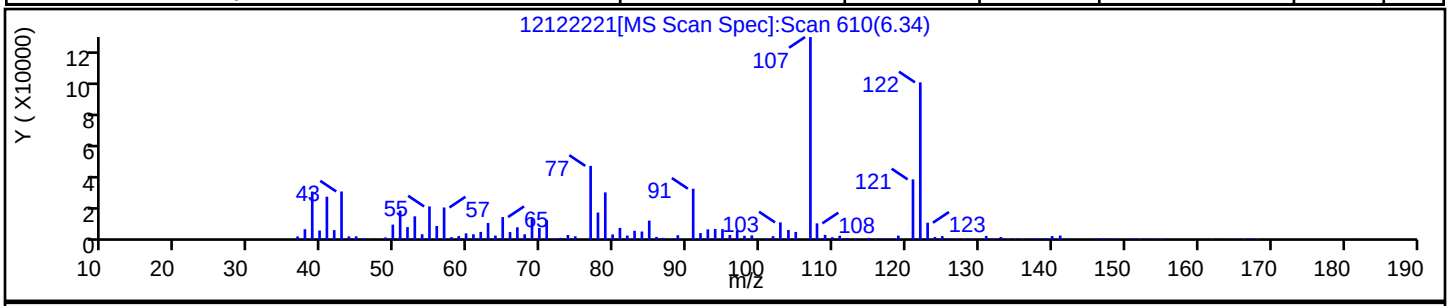
Injection Vol. 1.00 1 Dil. Factor: 20.0

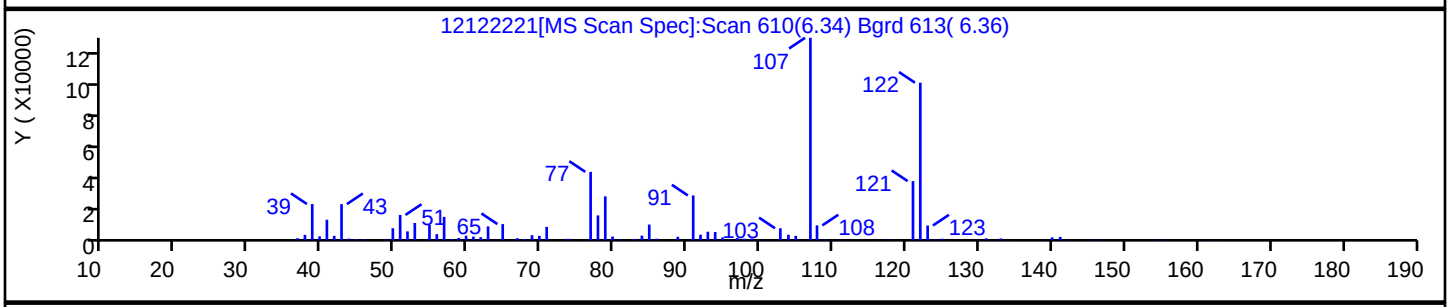
Operator: RBH

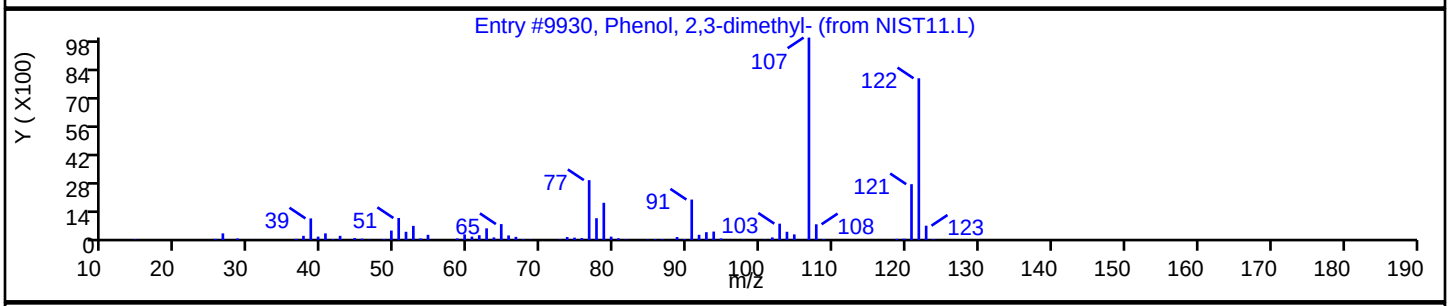
Column1: Zebron ZB-SV (0.25 mm) Detector: MS Scan

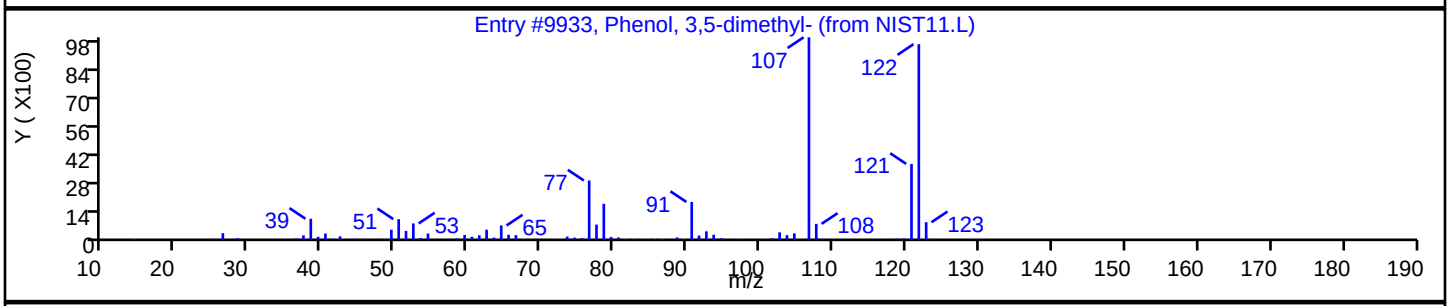
TIC @ 6.335

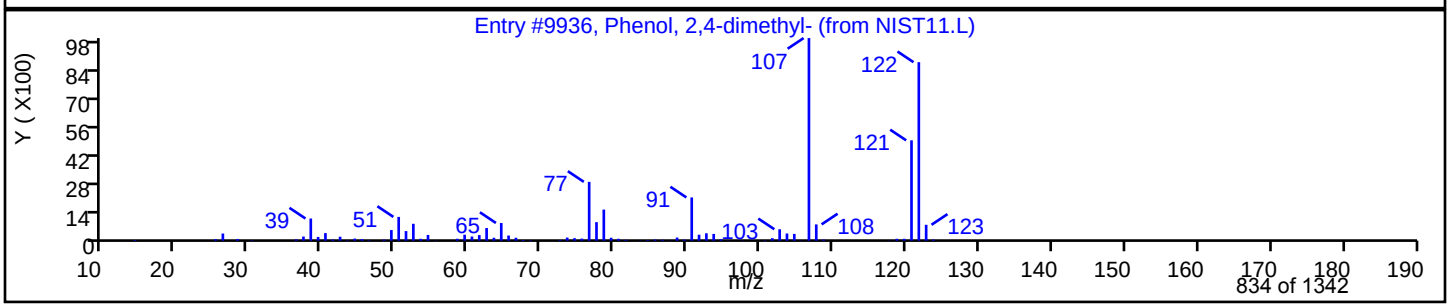
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9930	C8H10O	122	96
Phenol, 3,5-dimethyl-	108-68-9	NIST11	9933	C8H10O	122	97
Phenol, 2,4-dimethyl-	105-67-9	NIST11	9936	C8H10O	122	96











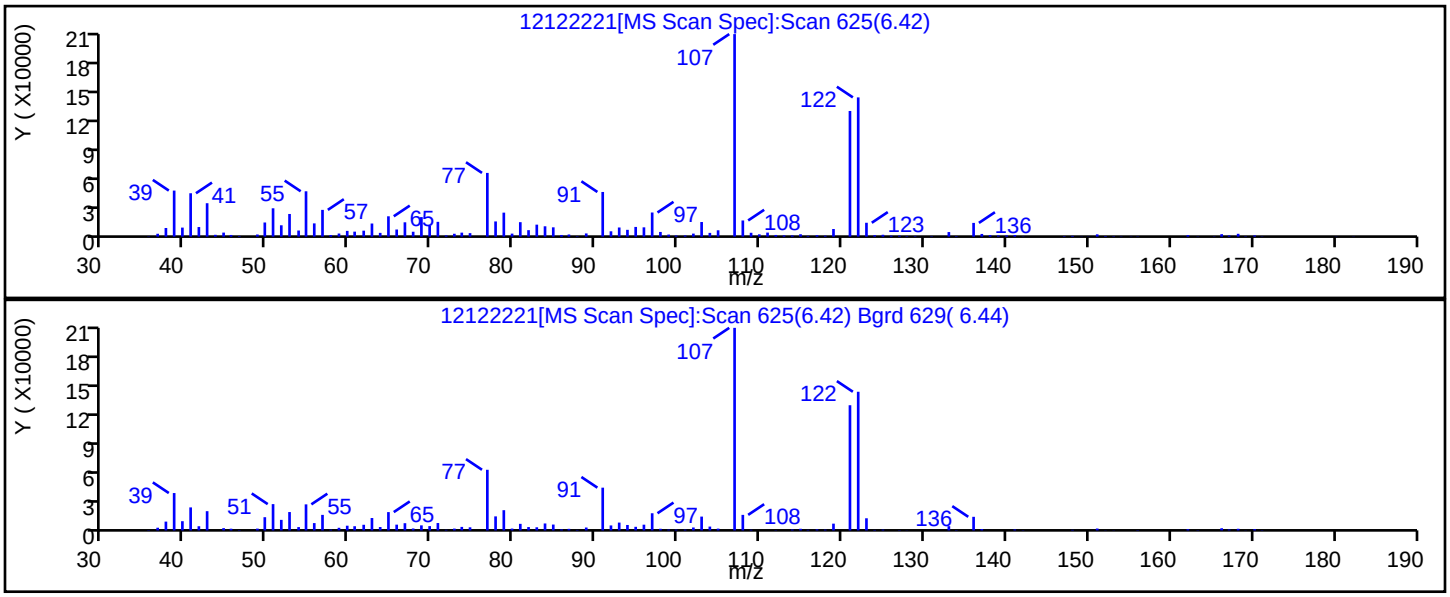
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.415

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



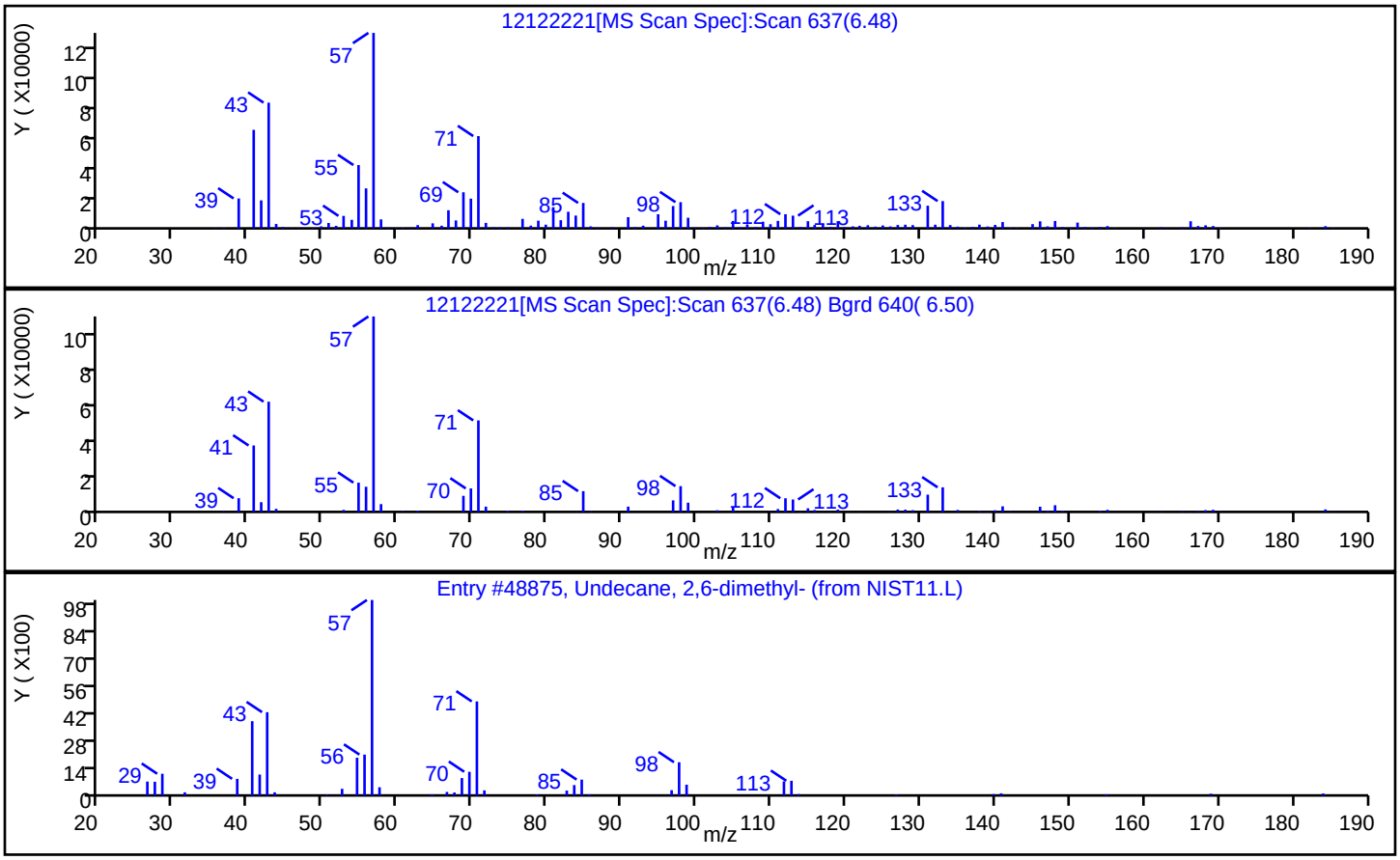
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.479

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Undecane, 2,6-dimethyl-	17301-23-4	NIST11	48875	C13H28	184	93



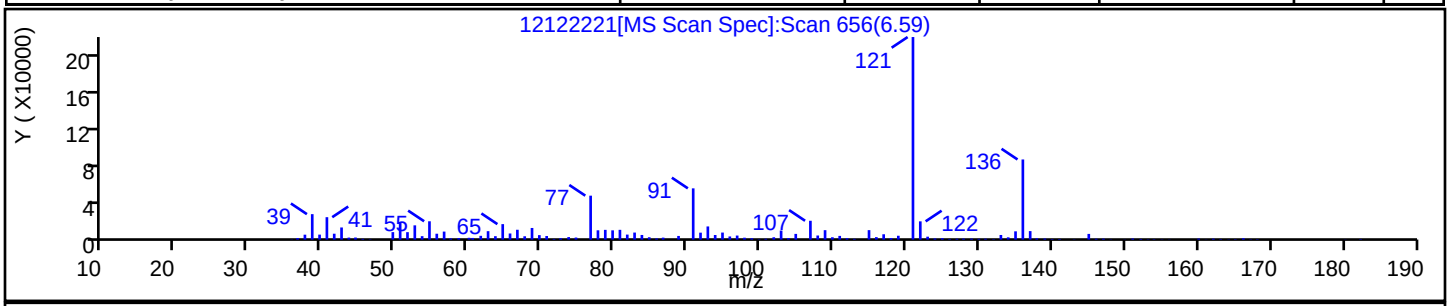
Report Date: 06-Jan-2016 10:10:59 AIM Revision: 1.0 26-May-2015 13:41:26

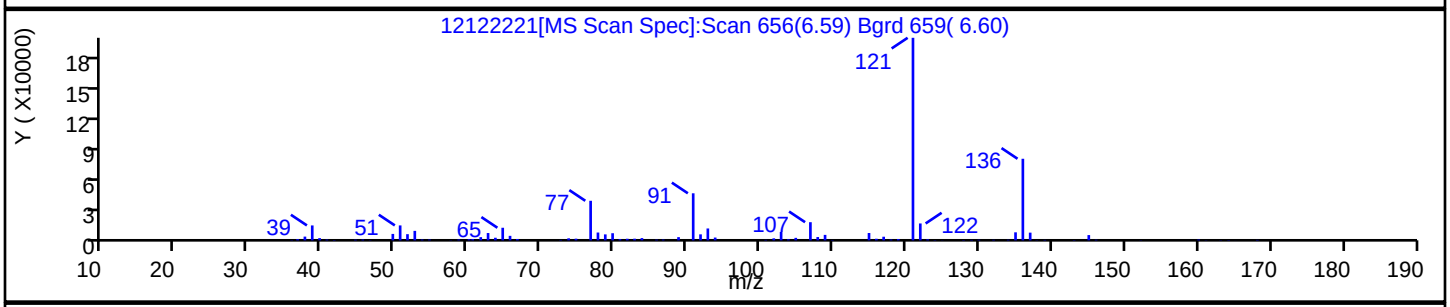
Shealy Environmental Services

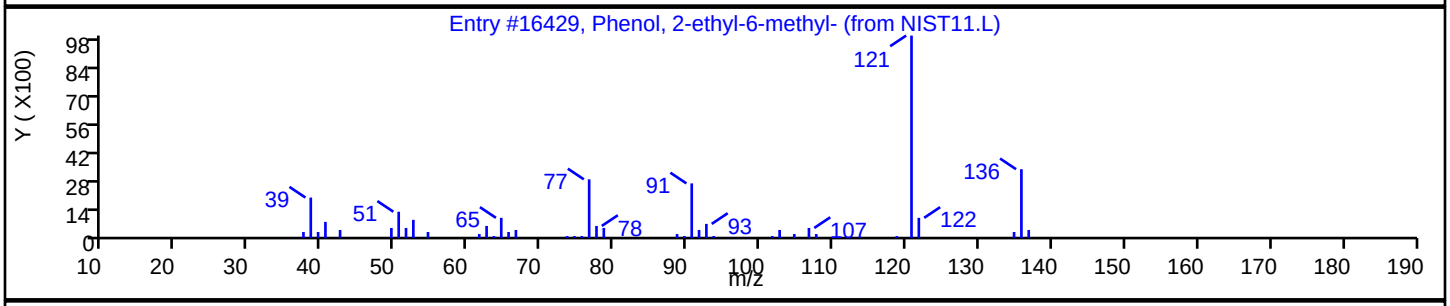
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

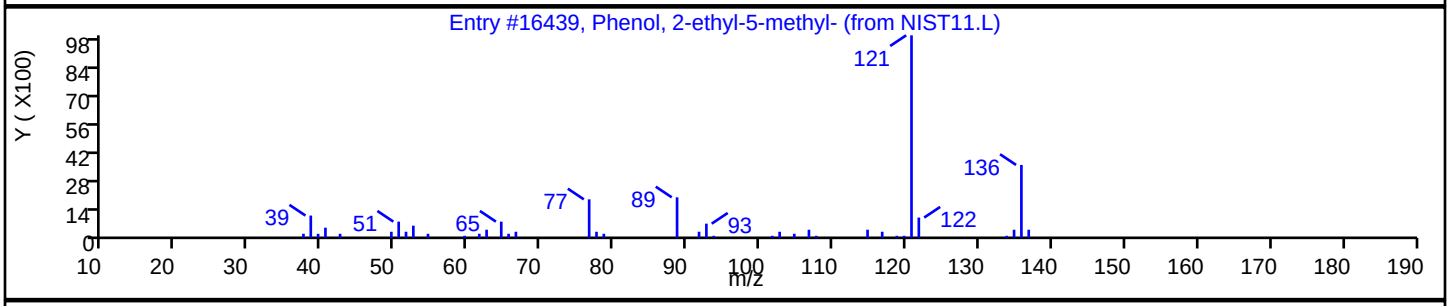
TIC @ 6.581

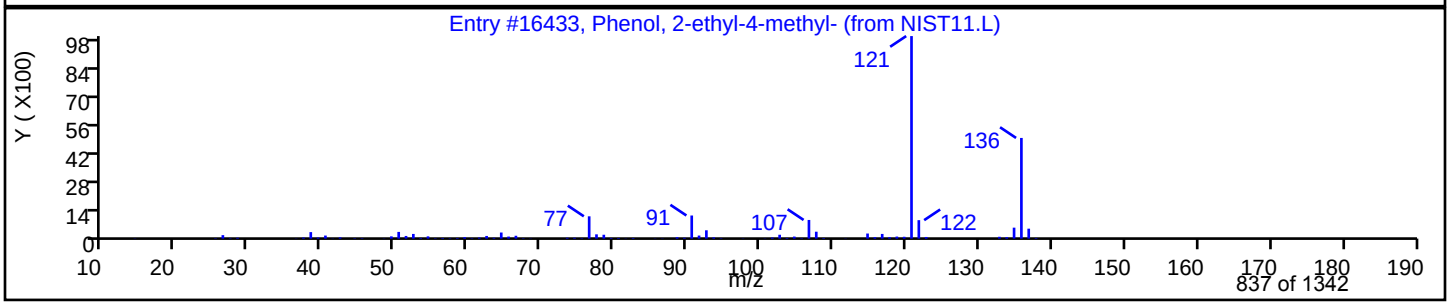
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-6-methyl-	1687-64-5	NIST11	16429	C9H12O	136	91
Phenol, 2-ethyl-5-methyl-	1687-61-2	NIST11	16439	C9H12O	136	91
Phenol, 2-ethyl-4-methyl-	3855-26-3	NIST11	16433	C9H12O	136	91











Report Date: 06-Jan-2016 10:11:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
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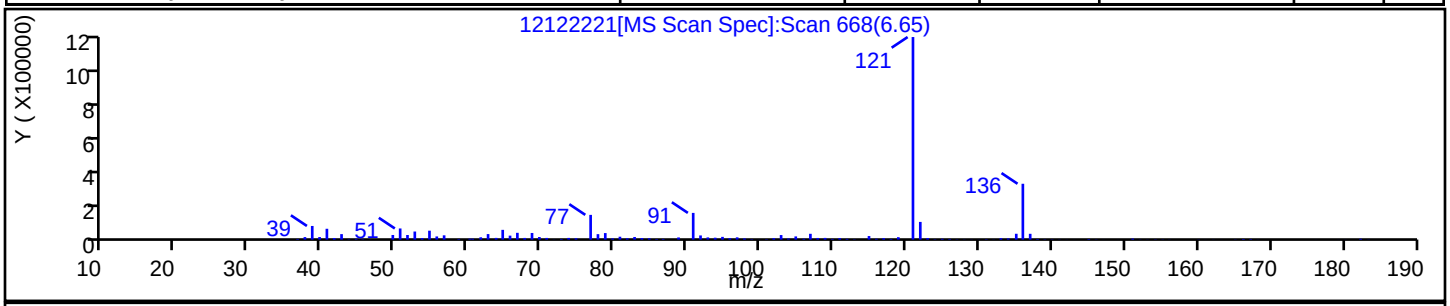
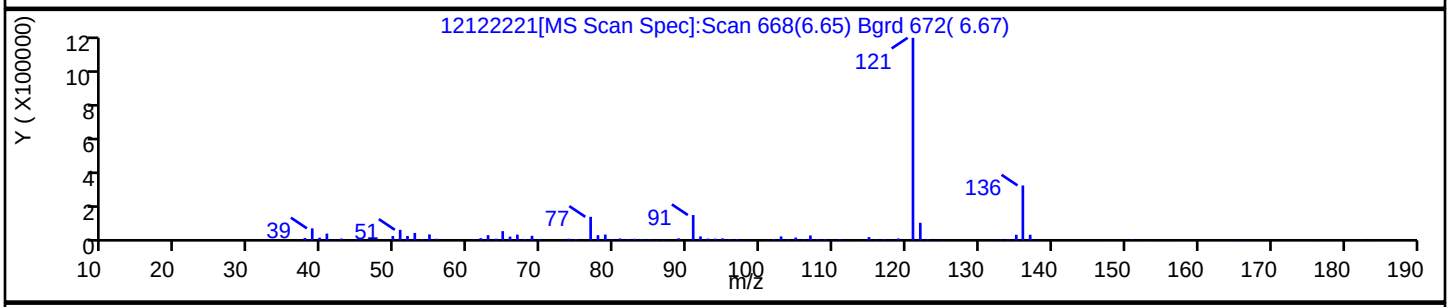
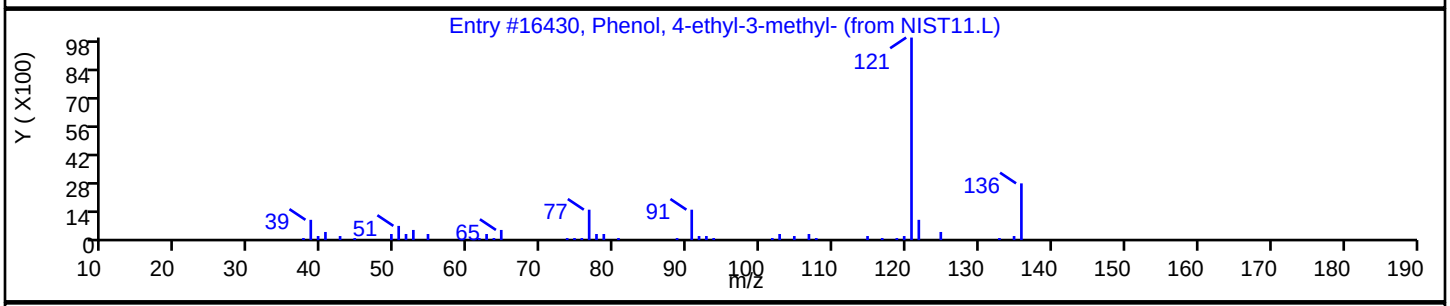
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

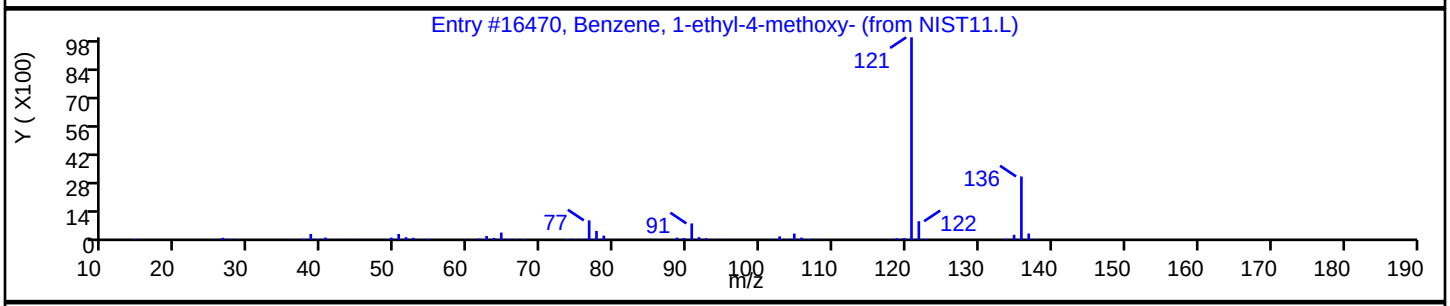
TIC @ 6.645

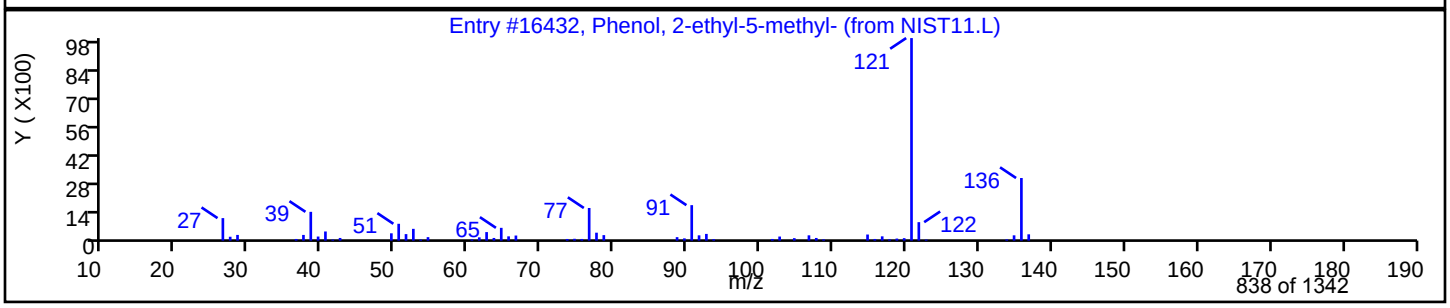
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4-ethyl-3-methyl-	1123-94-0	NIST11	16430	C9H12O	136	91
Benzene, 1-ethyl-4-methoxy-	1515-95-3	NIST11	16470	C9H12O	136	91
Phenol, 2-ethyl-5-methyl-	1687-61-2	NIST11	16432	C9H12O	136	91











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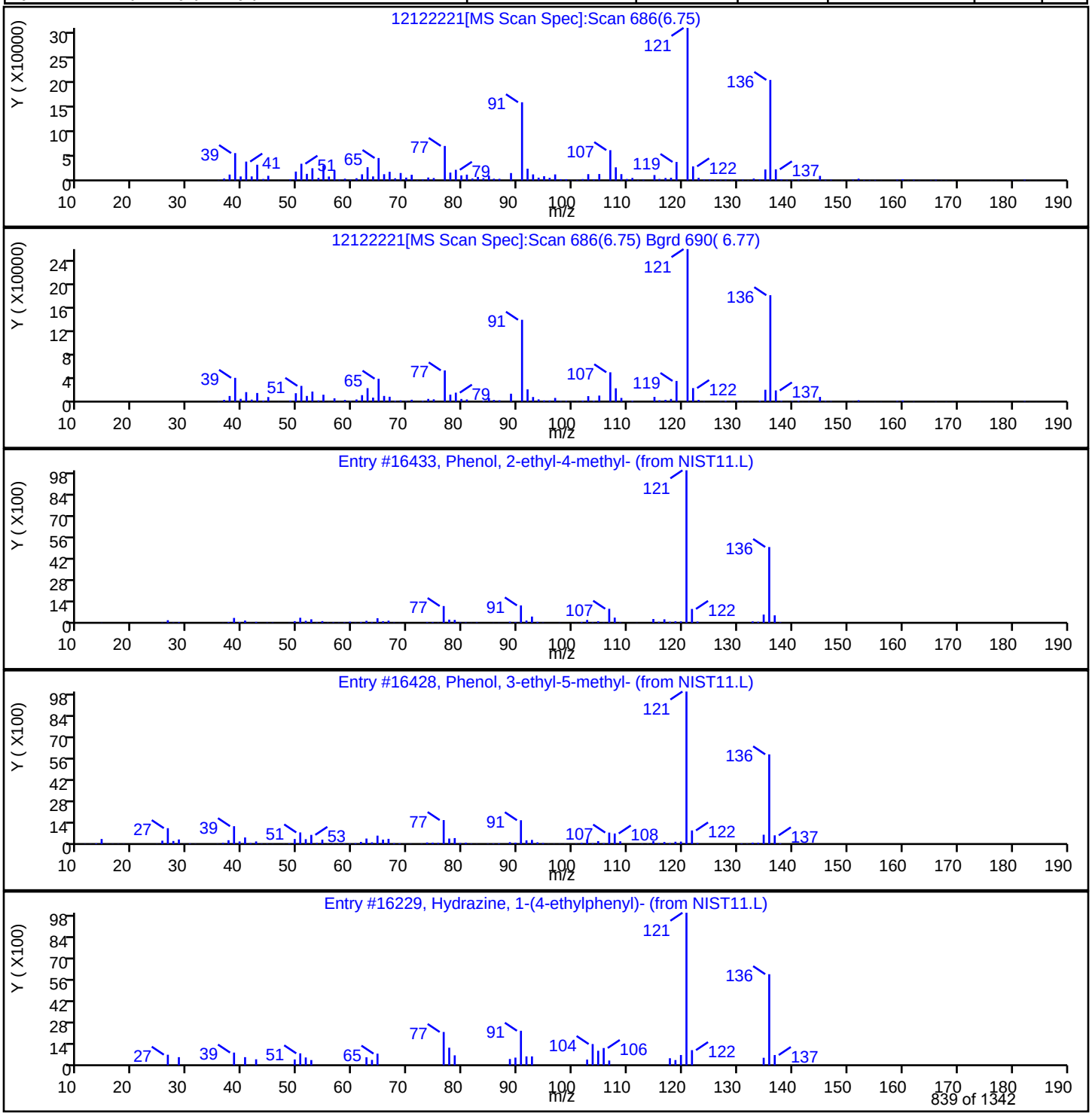
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.741

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-4-methyl-	3855-26-3	NIST11	16433	C9H12O	136	91
Phenol, 3-ethyl-5-methyl-	698-71-5	NIST11	16428	C9H12O	136	91
Hydrazine, 1-(4-ethylphenyl)-	54840-34-5	NIST11	16229	C8H12N2	136	87



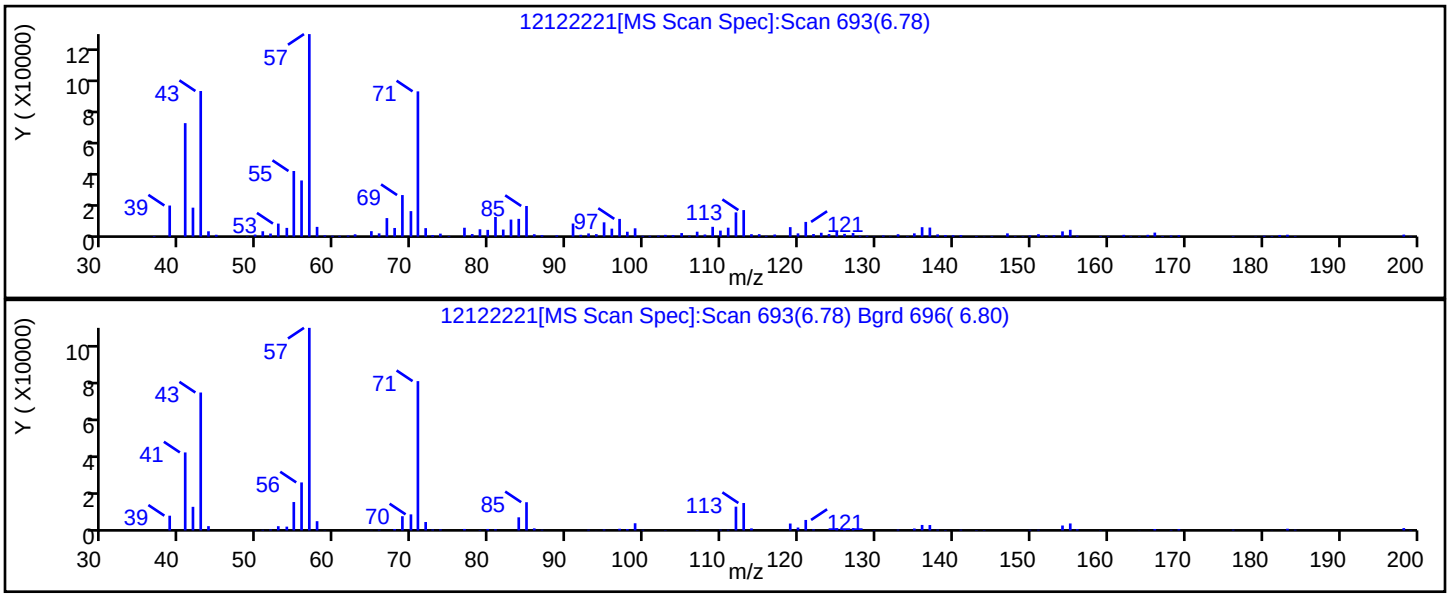
Report Date: 06-Jan-2016 10:11:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.779

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



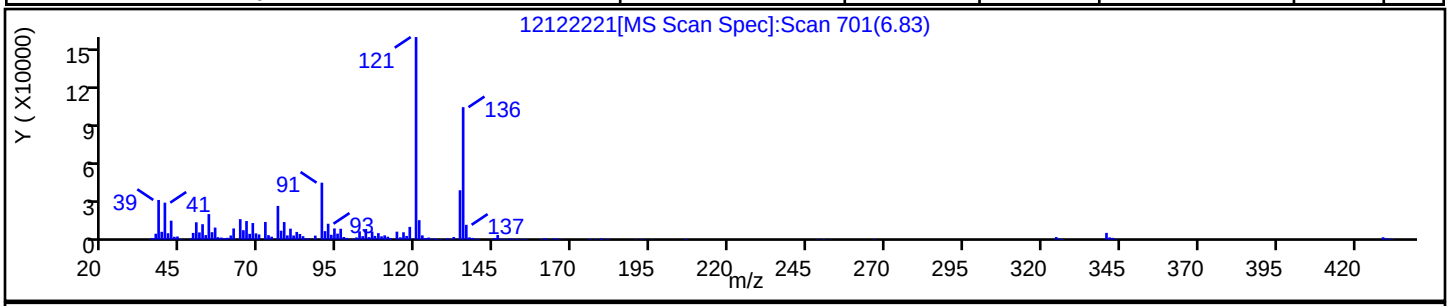
Report Date: 06-Jan-2016 10:11:00 AIM Revision: 1.0 26-May-2015 13:41:26

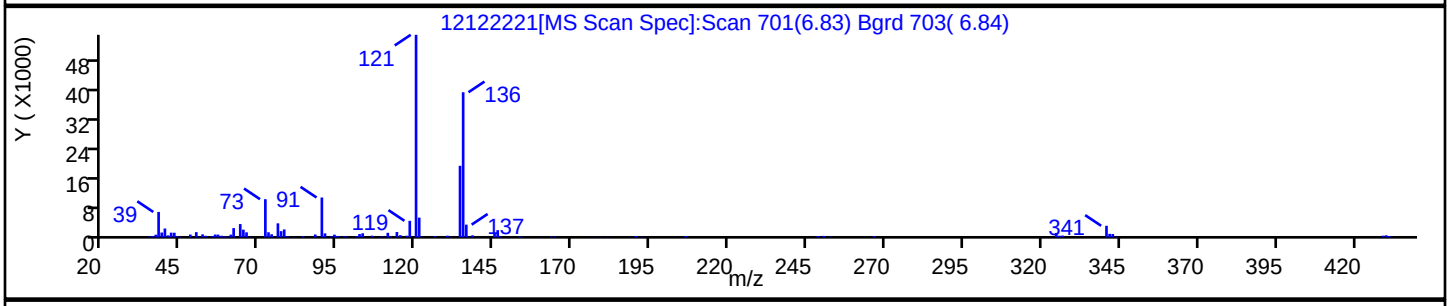
Shealy Environmental Services

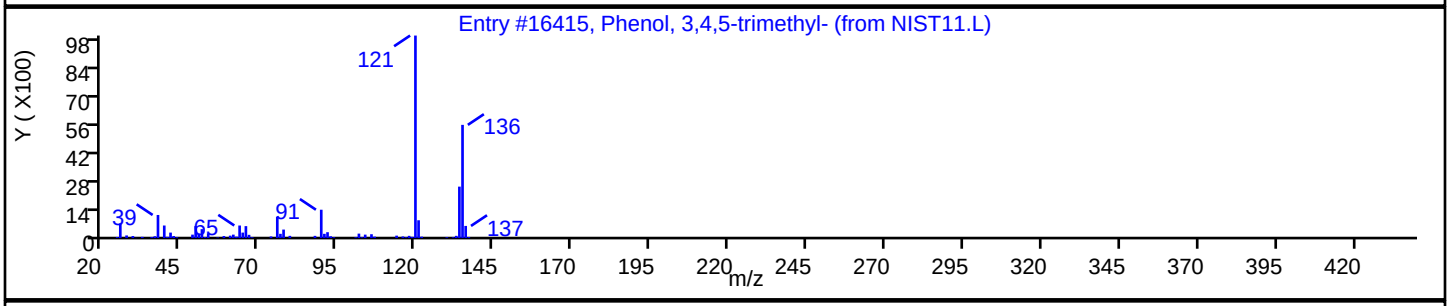
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

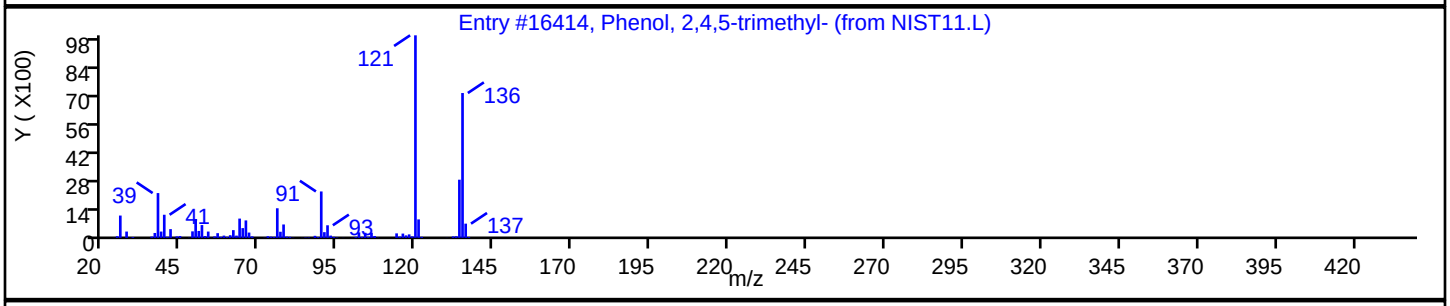
TIC @ 6.821

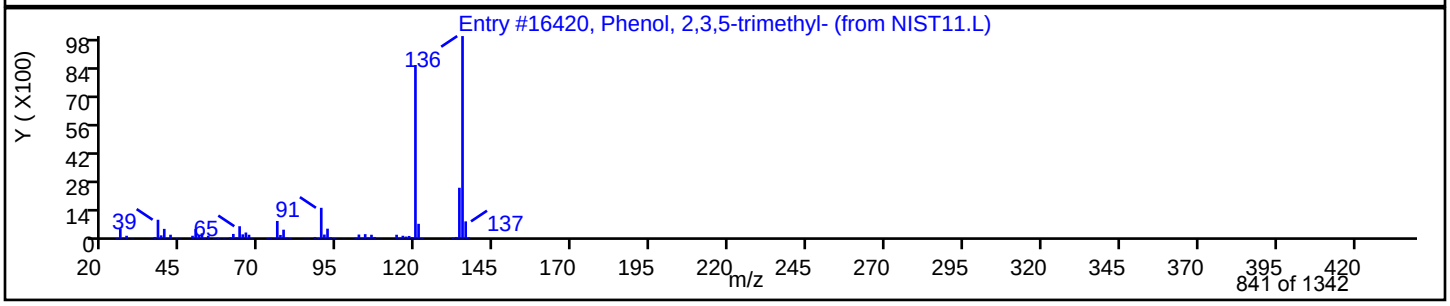
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,4,5-trimethyl-	527-54-8	NIST11	16415	C9H12O	136	90
Phenol, 2,4,5-trimethyl-	496-78-6	NIST11	16414	C9H12O	136	90
Phenol, 2,3,5-trimethyl-	697-82-5	NIST11	16420	C9H12O	136	90











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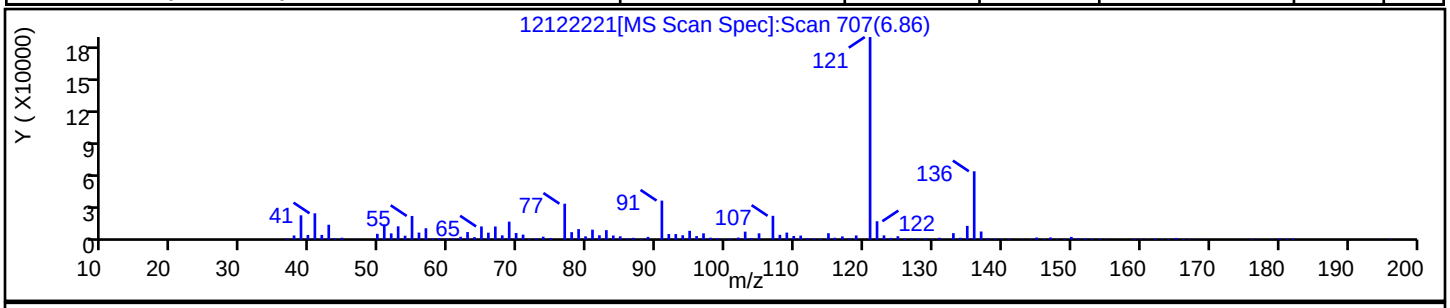
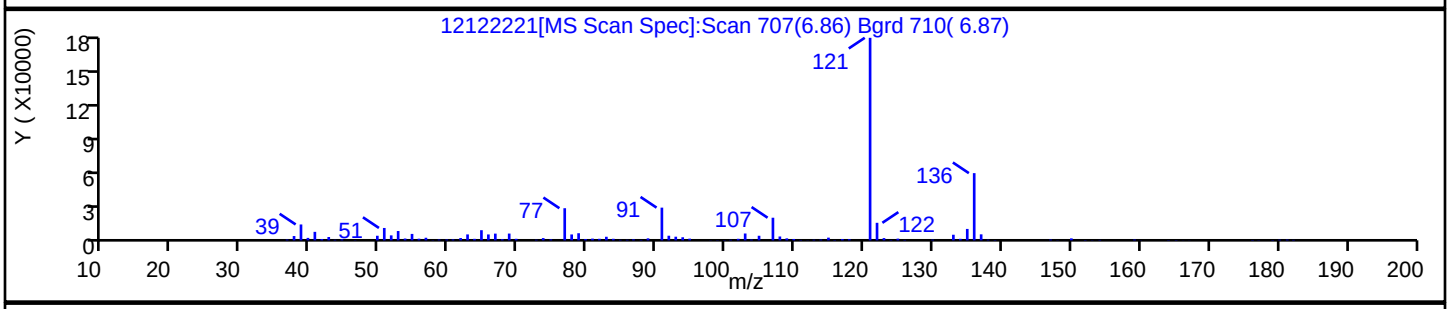
Shealy Environmental Services

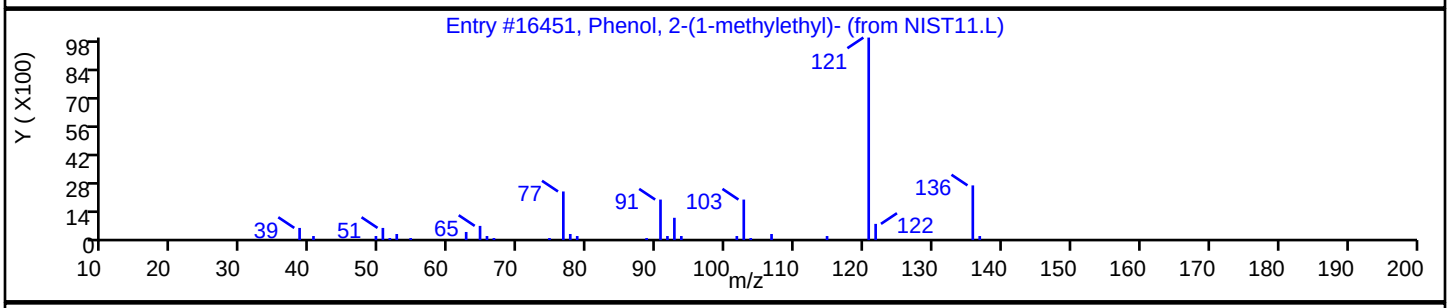
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

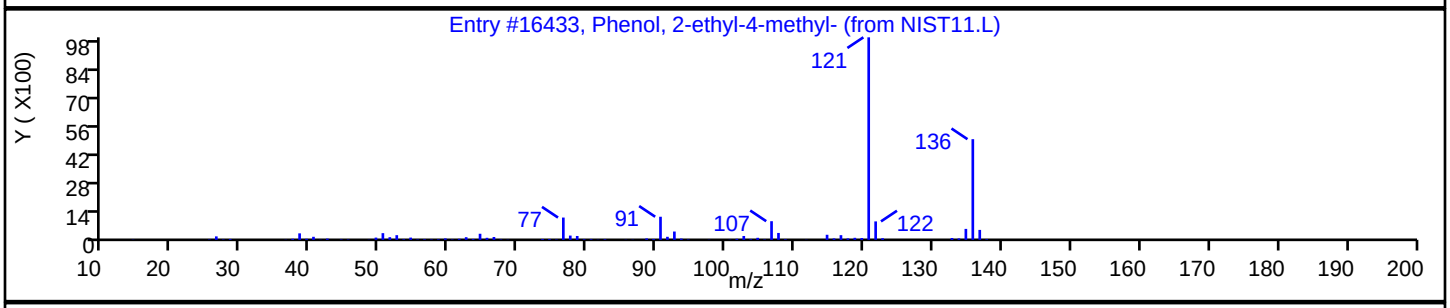
TIC @ 6.853

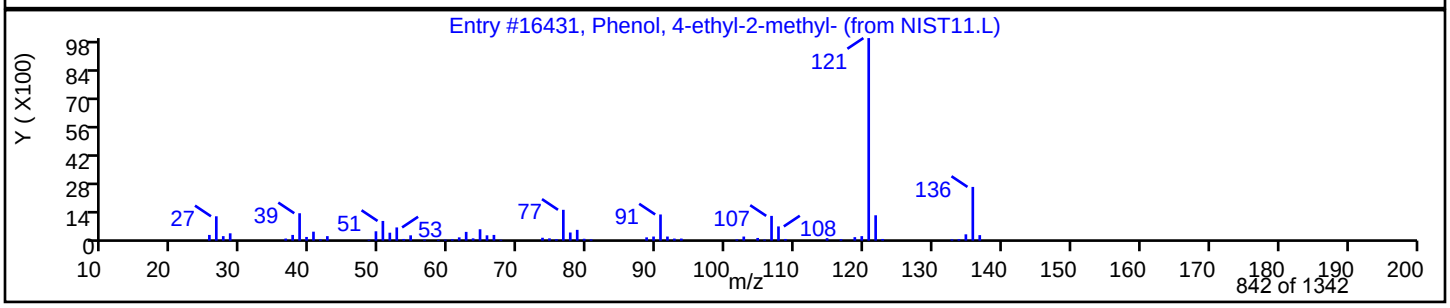
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-(1-methylethyl)-	88-69-7	NIST11	16451	C9H12O	136	90
Phenol, 2-ethyl-4-methyl-	3855-26-3	NIST11	16433	C9H12O	136	91
Phenol, 4-ethyl-2-methyl-	2219-73-0	NIST11	16431	C9H12O	136	90











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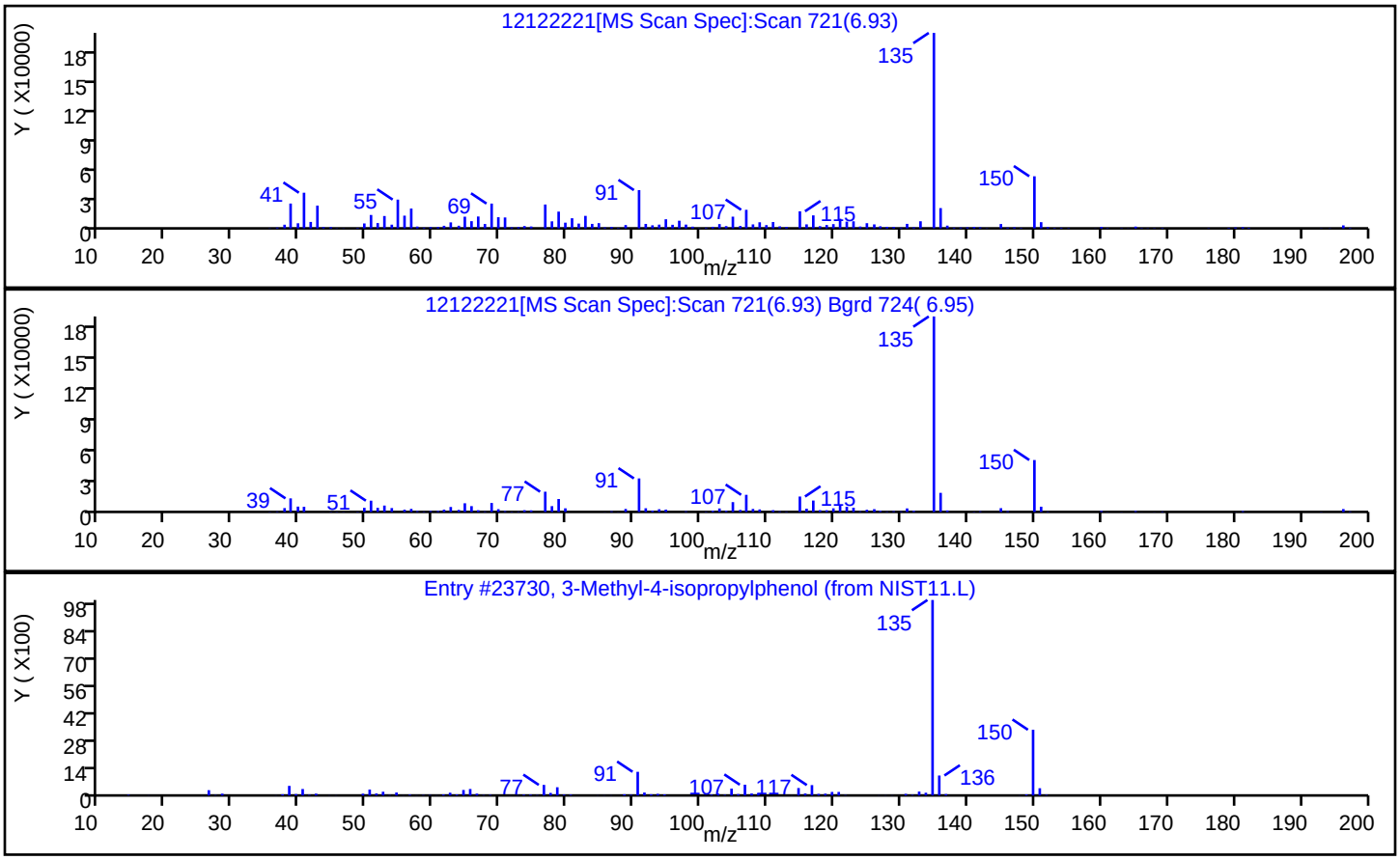
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.928

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
3-Methyl-4-isopropylphenol	3228-02-2	NIST11	23730	C10H14O	150	87



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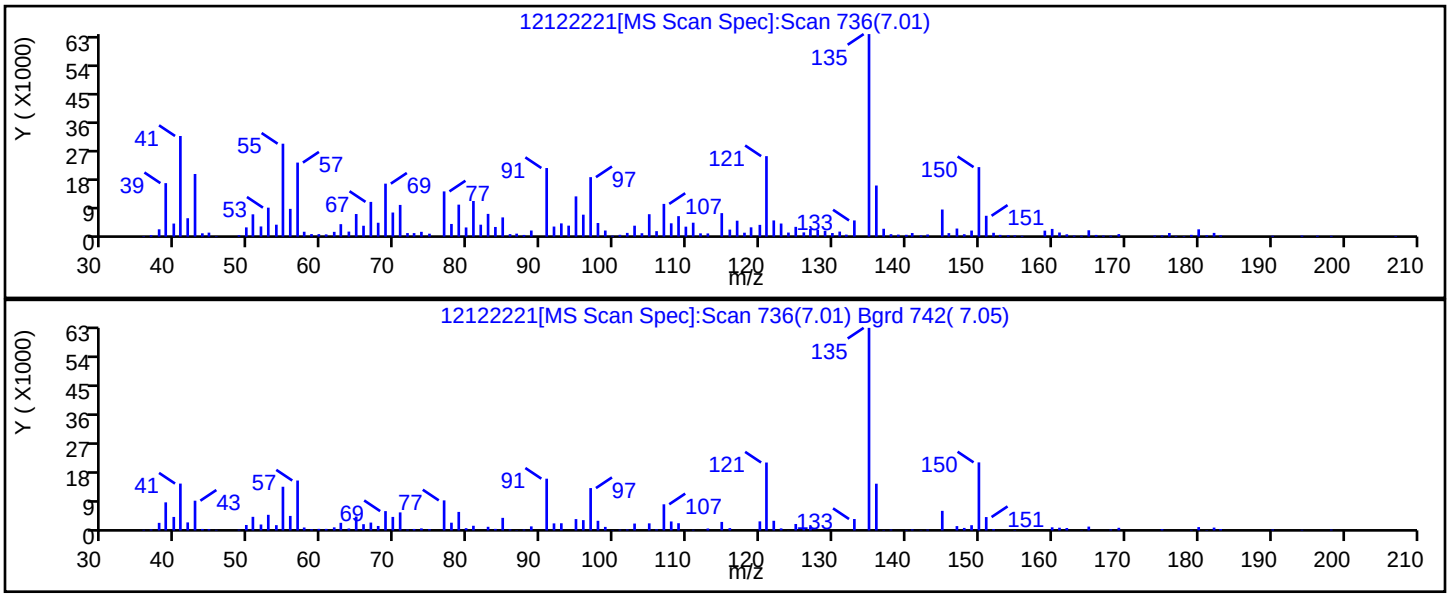
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.008

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



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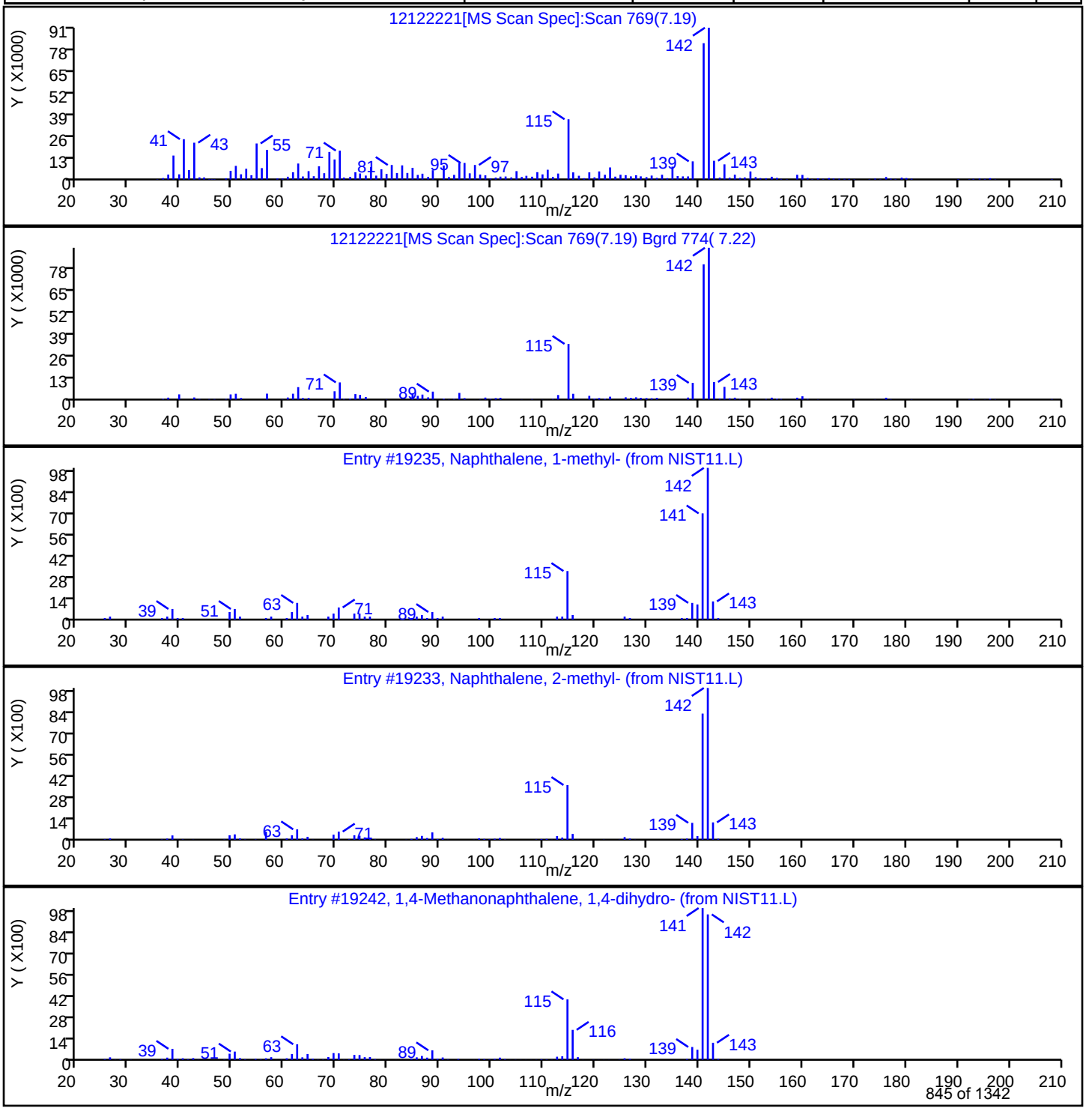
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.185

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1-methyl-	90-12-0	NIST11	19235	C11H10	142	93
Naphthalene, 2-methyl-	91-57-6	NIST11	19233	C11H10	142	93
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NIST11	19242	C11H10	142	91



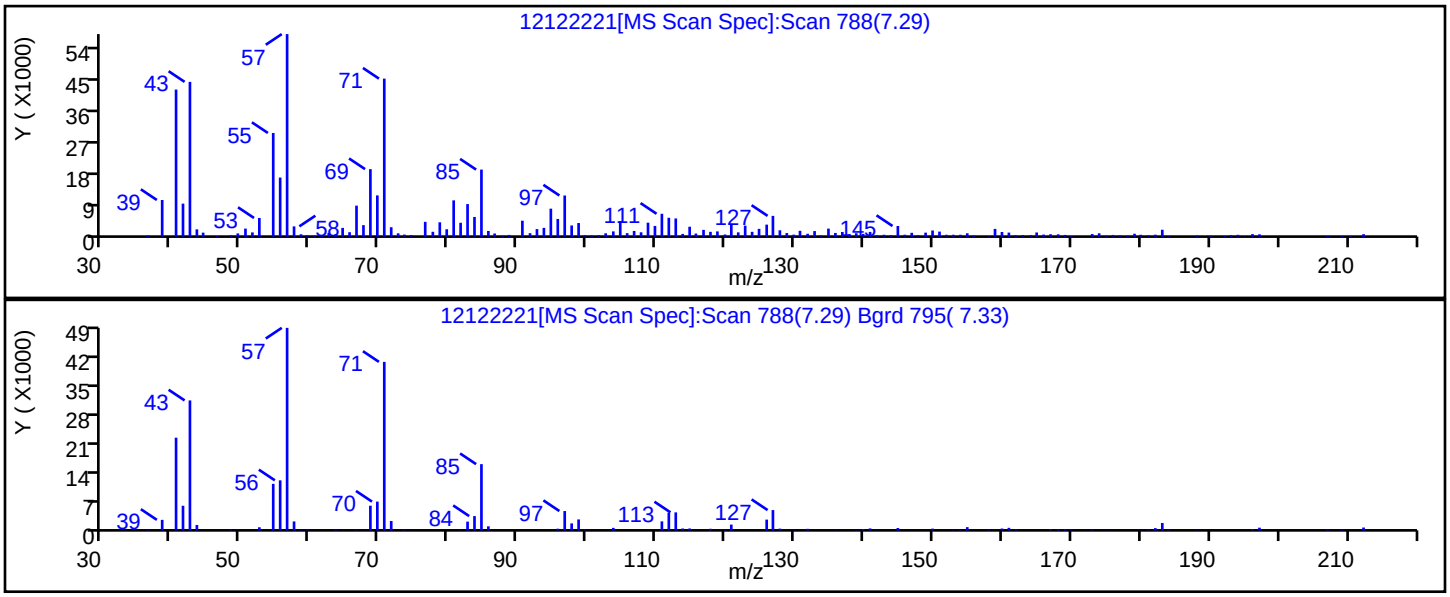
Report Date: 06-Jan-2016 10:11:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.286

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



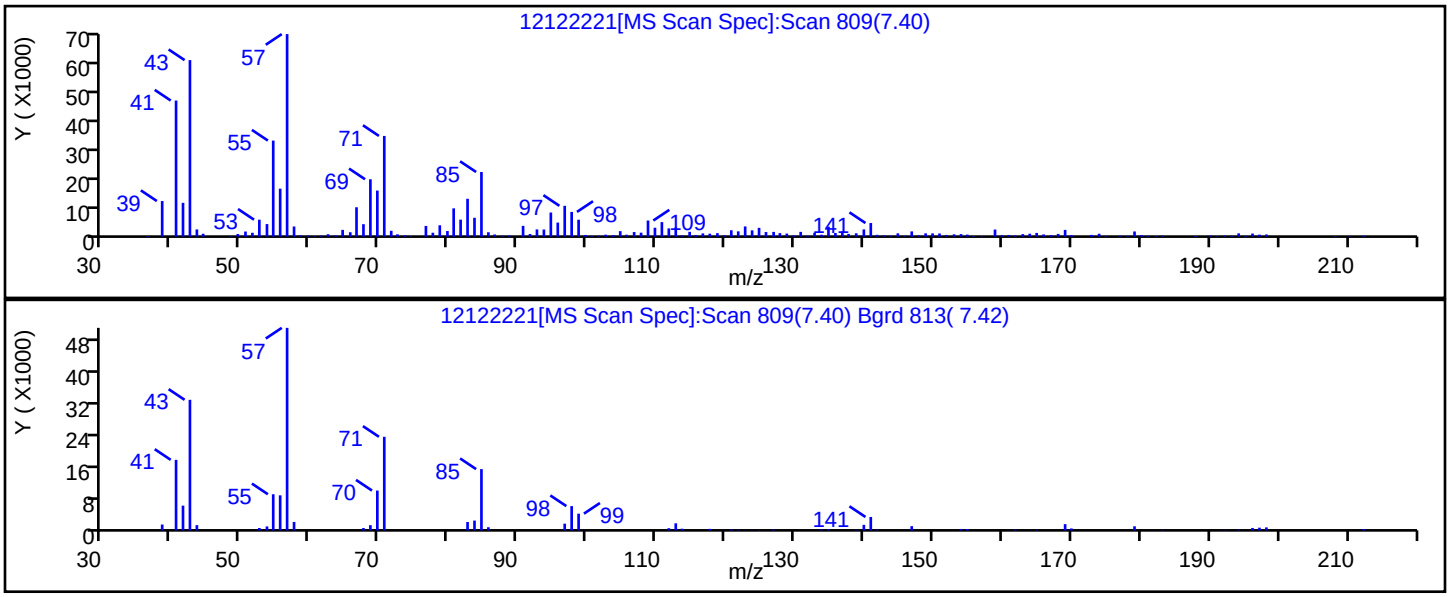
Report Date: 06-Jan-2016 10:11:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.398

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



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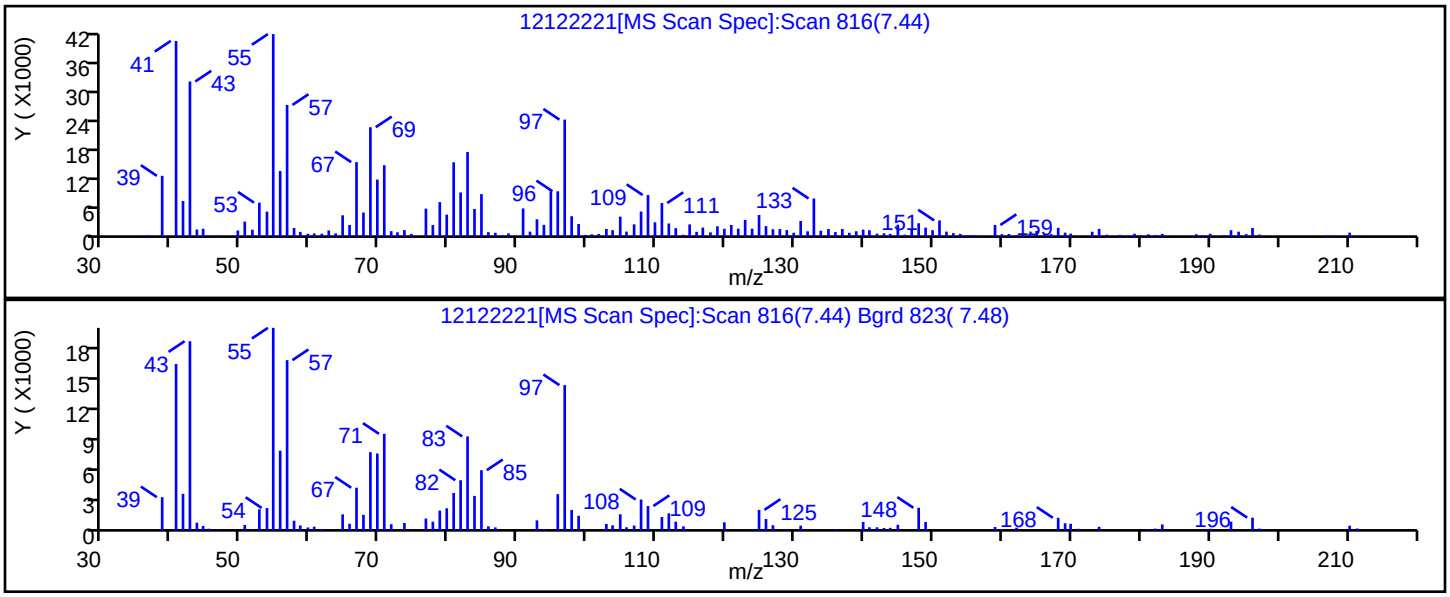
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.436

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



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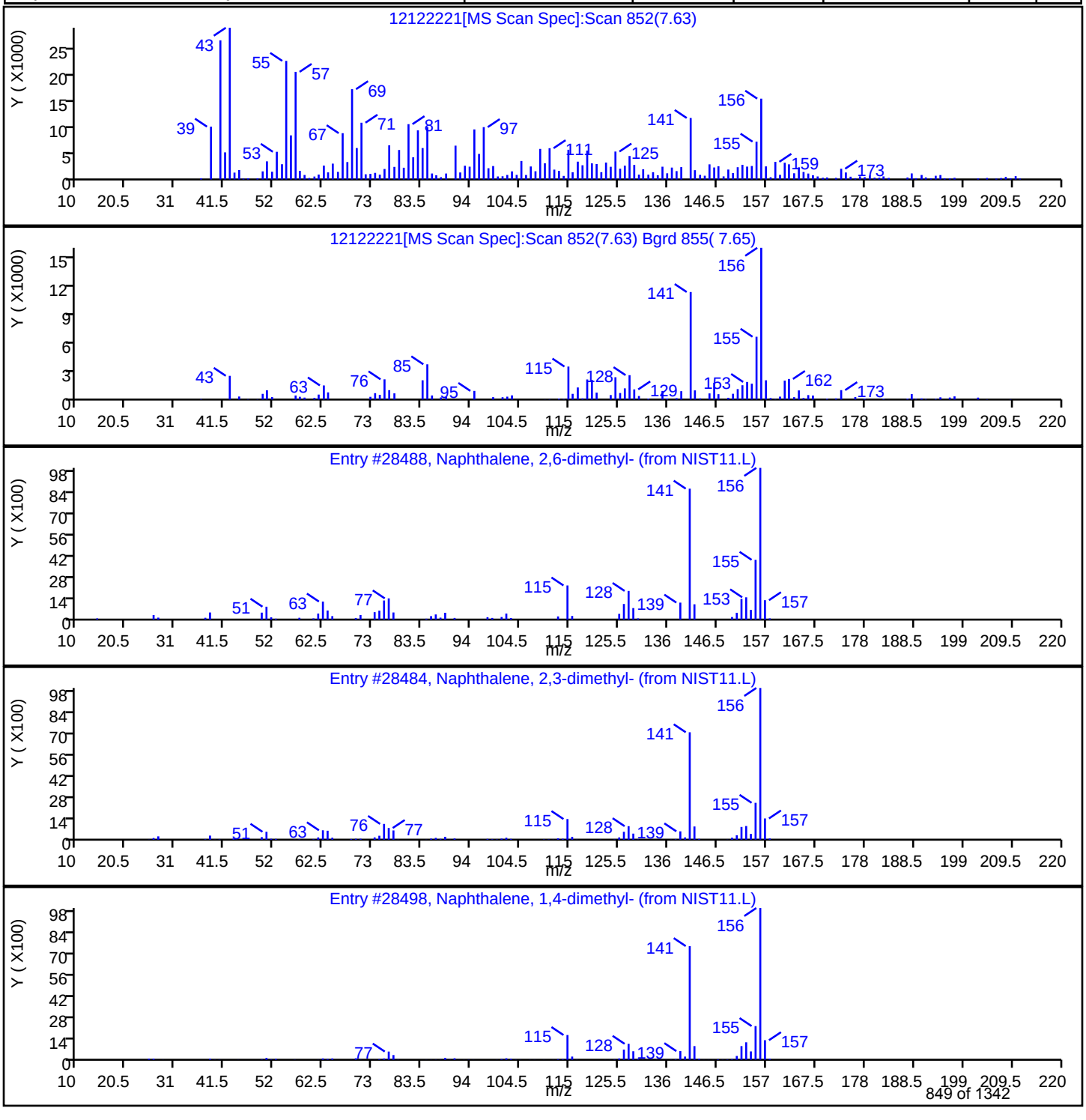
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.628

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 2,6-dimethyl-	581-42-0	NIST11	28488	C12H12	156	98
Naphthalene, 2,3-dimethyl-	581-40-8	NIST11	28484	C12H12	156	95
Naphthalene, 1,4-dimethyl-	571-58-4	NIST11	28498	C12H12	156	94



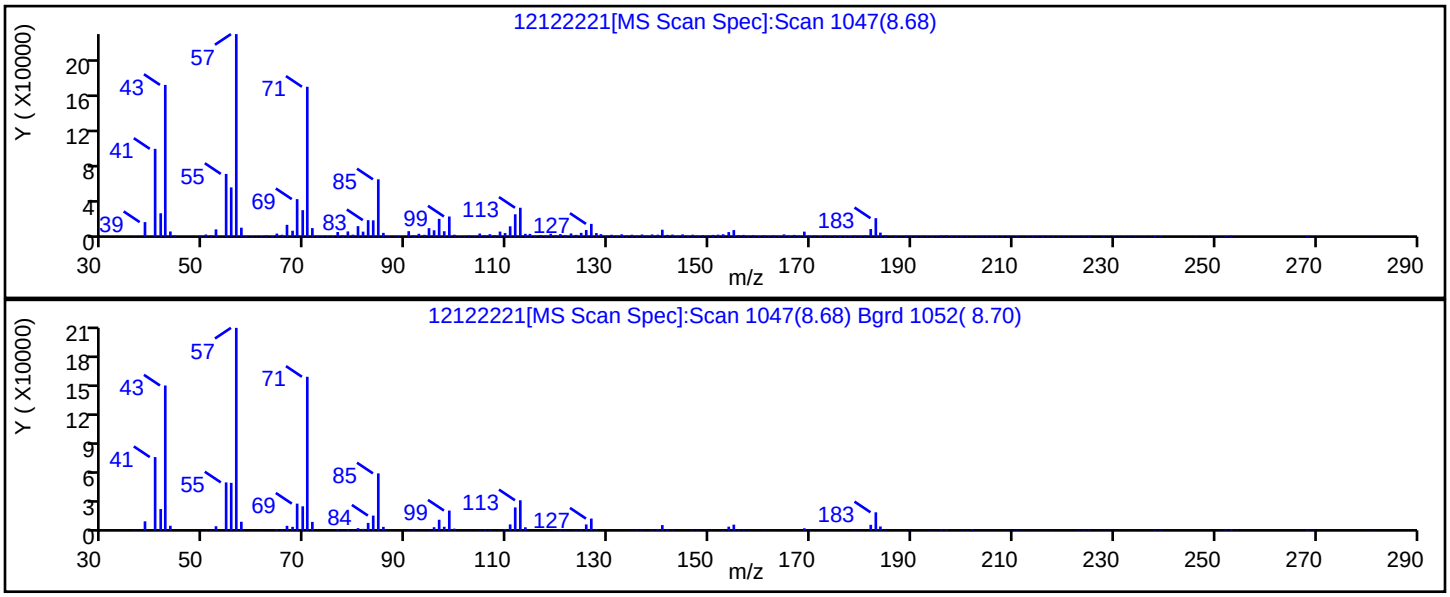
Report Date: 06-Jan-2016 10:11:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.670

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



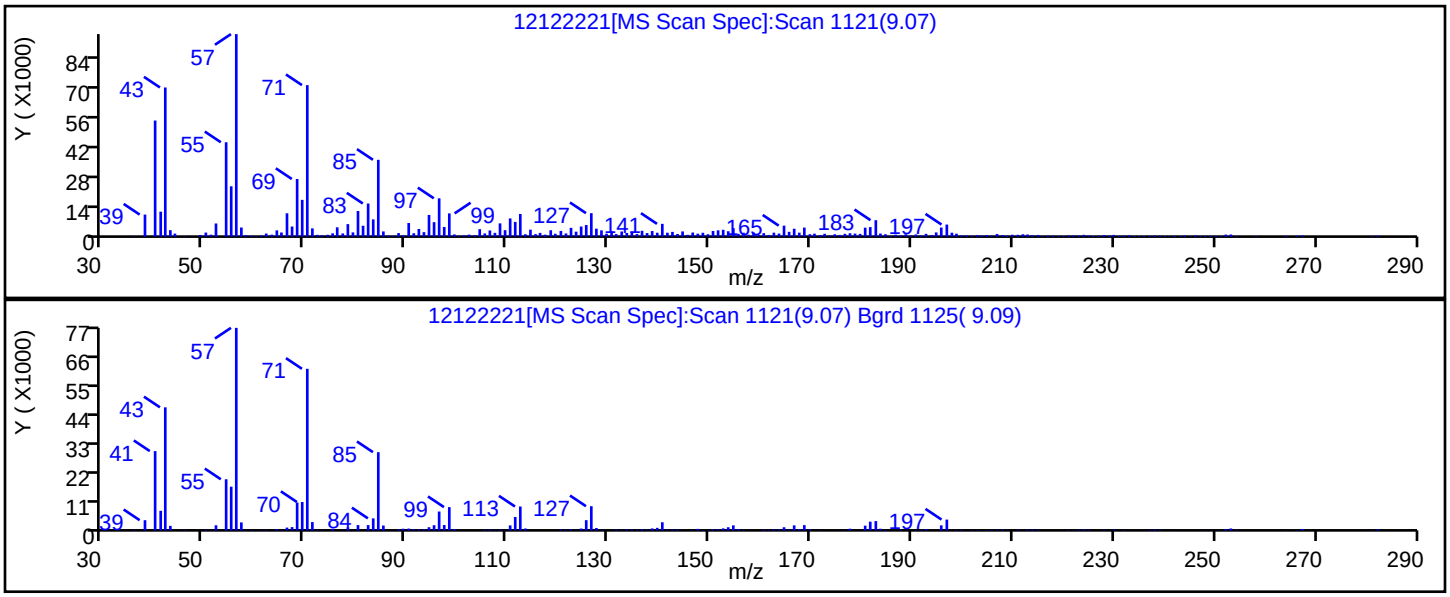
Report Date: 06-Jan-2016 10:11:00 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.065

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



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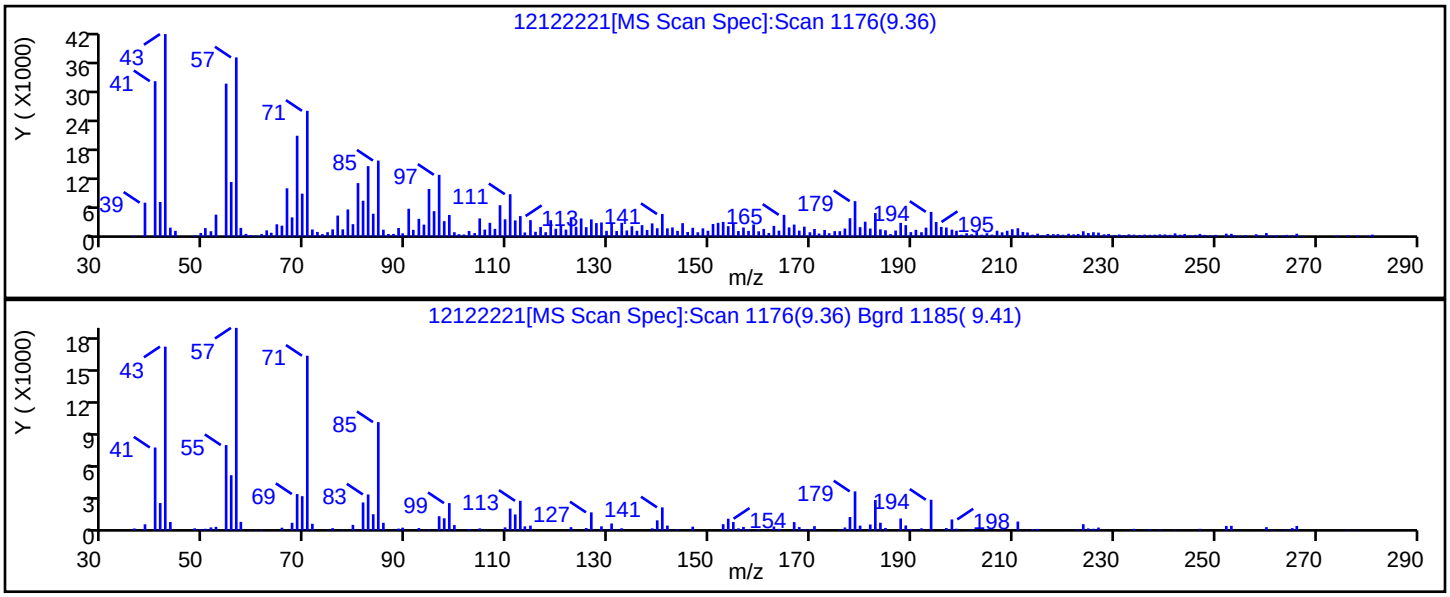
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.359

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



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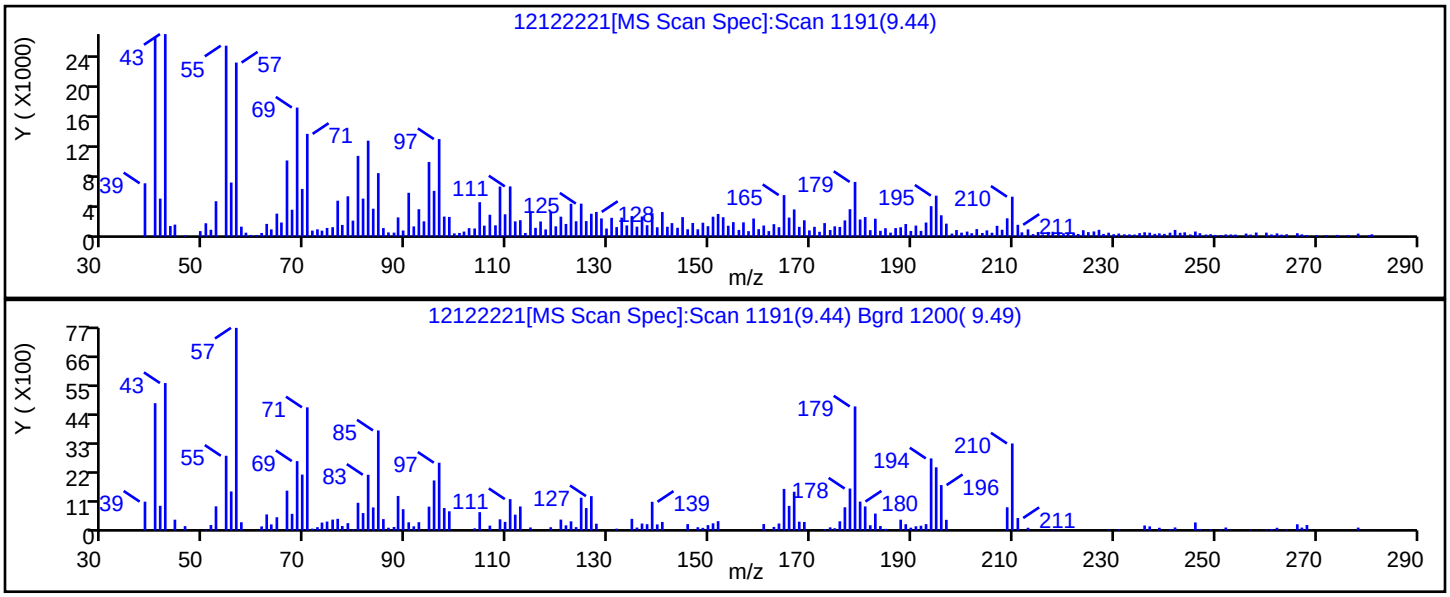
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.439

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



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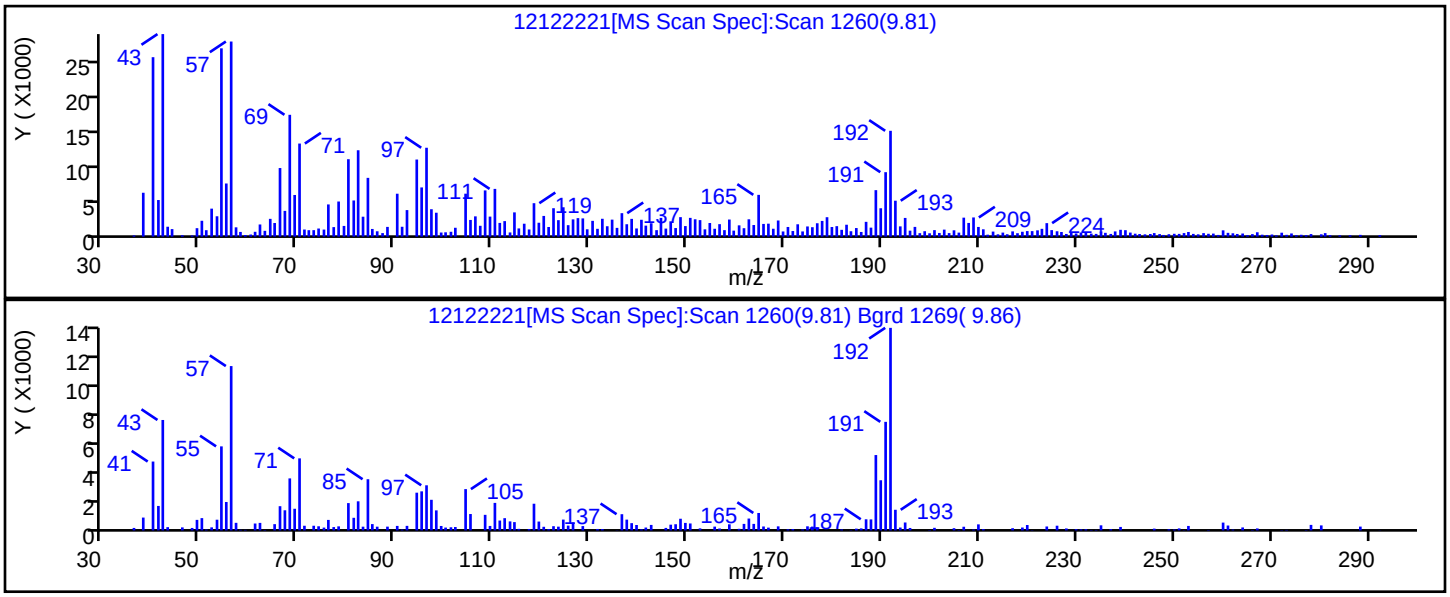
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.808

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



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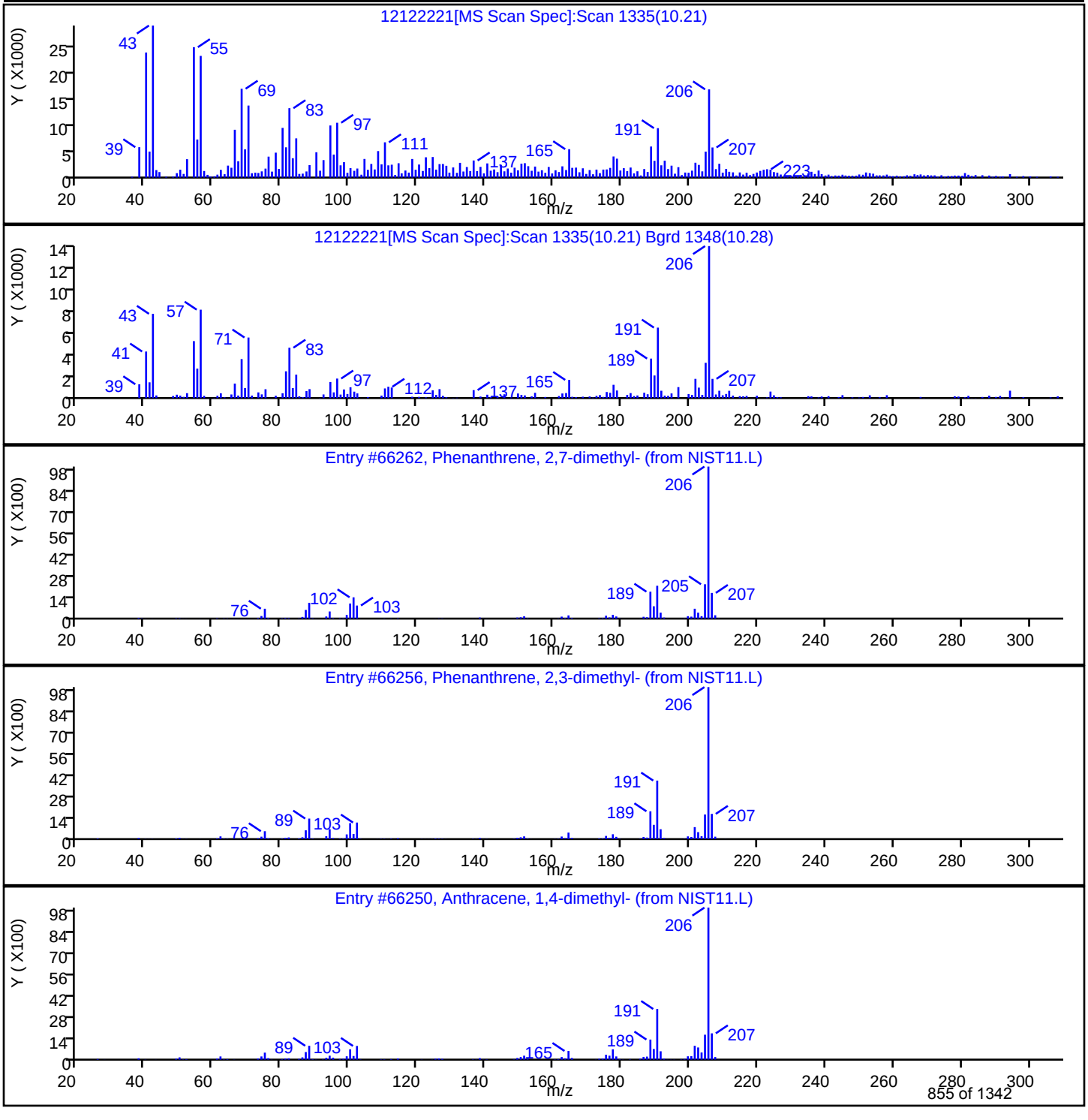
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122221.D		
Injection Date:	22-Dec-2015 19:05:30	Inst. ID:	msd12.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	12122215.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.208

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenanthrene, 2,7-dimethyl-	1576-69-8	NIST11	66262	C16H14	206	93
Phenanthrene, 2,3-dimethyl-	3674-65-5	NIST11	66256	C16H14	206	91
Anthracene, 1,4-dimethyl-	781-92-0	NIST11	66250	C16H14	206	91



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123106

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 8 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	38	U
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-Chloroethyl) ether	190	U
95-57-8	2-Chlorophenol	95	U
95-48-7	2-Methylphenol	38	J
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	16	J
621-64-7	N-Nitroso-di-n propylamine	95	U
67-72-1	Hexachloroethane	95	U
98-95-3	Nitrobenzene	95	U
78-59-1	Isophorone	95	U
88-75-5	2-Nitrophenol	95	U
105-67-9	2,4-Dimethylphenol	680	
111-91-1	Bis(2-chloroethoxy)methane	95	U
120-83-2	2,4-Dichlorophenol	95	U
91-20-3	Naphthalene	20	J
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	95	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	95	U
91-57-6	2-Methylnaphthalene	95	U
77-47-4	Hexachlorocyclo-pentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	95	U
95-95-4	2,4,5-Trichlorophenol	95	U
92-52-4	1,1'-Biphenyl	95	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123106

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 8 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	95	U
88-74-4	2-Nitroaniline	95	U
131-11-3	Dimethylphthalate	95	U
606-20-2	2,6-Dinitrotoluene	95	U
208-96-8	Acenaphthylene	95	U
99-09-2	3-Nitroaniline	190	U
83-32-9	Acenaphthene	95	U
51-28-5	2,4-Dinitrophenol	190	U
100-02-7	4-Nitrophenol	190	U
132-64-9	Dibenzofuran	95	U
121-14-2	2,4-Dinitrotoluene	95	U
84-66-2	Diethylphthalate	95	U
95-94-3	1,2,4,5-Tetrachlorobenzene	95	U
7005-72-3	4-Chlorophenyl-phenyl ether	95	U
86-73-7	Fluorene	95	U
100-01-6	4-Nitroaniline	190	U
534-52-1	4,6-Dinitro-2-methylphenol	190	U
101-55-3	4-Bromophenyl-phenylether	95	U
86-30-6	N-Nitrosodiphenylamine	95	U
118-74-1	Hexachlorobenzene	95	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	190	U
85-01-8	Phenanthrene	95	U
120-12-7	Anthracene	95	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	95	U
206-44-0	Fluoranthene	190	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123106

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 8 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	95	U
85-68-7	Butylbenzylphthalate	95	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	95	U
218-01-9	Chrysene	95	U
117-81-7	Bis(2-ethylhexyl)phthalate	95	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	95	U
207-08-9	Benzo(k)fluoranthene	95	U
50-32-8	Benzo(a)pyrene	95	U
193-39-5	Indeno(1,2,3-cd)pyrene	95	U
53-70-3	Dibenzo(a,h)anthracene	95	U
191-24-2	Benzo(g,h,i)perylene	95	U
58-90-2	2,3,4,6-Tetrachlorophenol	95	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R33RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-003
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 12123106
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/23/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/31/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 8 Dilution Factor: 20.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	576-26-1	Phenol, 2,6-dimethyl-	5.98	160	NJ
02	108-68-9	Phenol, 3,5-dimethyl-	6.27	130	NJ
03	95-65-8	Phenol, 3,4-dimethyl-	6.42	100	NJ
04	1687-64-5	Phenol, 2-ethyl-6-methyl-	6.58	62	NJ
05	1123-94-0	Phenol, 4-ethyl-3-methyl-	6.65	190	NJ
06	3855-26-3	Phenol, 2-ethyl-4-methyl-	6.75	86	NJ
07	496-78-6	Phenol, 2,4,5-trimethyl-	6.83	86	NJ
08	90-12-0	Naphthalene, 1-methyl-	7.09	51	NJ
09	4453-90-1	1,4-Methanonaphthalene, 1,4-	7.19	47	NJ
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Lab Sample ID:	QL16010-003	Client Sample ID:	F6R33RX
Injection Date:	31-Dec-2015 10:49:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QL16010-003		
Misc. Info:	92944 20X		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	06-Jan-2016 10:12:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.128	5.133	-0.005	27743	0.80211	15.278	Qe
108 1,4-Dioxane	88.0		3.322		ND			
$ 109 1,4-Dioxane-d8	96.0	3.296	3.301	-0.005	1271	0.10047	1.9136	eR
4 Phenol	94.0		5.144		ND			
2 Benzaldehyde	77.0		5.138		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.181	5.192	-0.011	18202	0.78023	14.862	Qe
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.294	5.299	-0.005	22832	0.9977	19.005	Qe
7 2-Chlorophenol	128.0		5.309		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.465	5.470	-0.005	377610	20.000	380.95	
10 2-Methylphenol	108.0	5.614	5.619	-0.005	50483	1.9855	37.818	e
11 2,2'-oxybis(1-Chloropropane)	45.0		5.641		ND			
$ 94 4-Methylphenol-d8	113.0	5.710	5.721	-0.011	25046	0.9969	18.989	Qe
14 4-Methylphenol	108.0	5.732	5.742	-0.010	23475	0.85101	16.210	e
13 N-Nitroso-di-n-propylamine	70.0		5.763		ND			
12 Acetophenone	105.0		5.779		ND			
15 Hexachloroethane	117.0		5.886		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.913	-0.005	12384	0.87642	16.694	e
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0	6.170	6.175	-0.005	1100817	35.707	680.13	
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	14488	0.89534	17.054	Qe
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.244		ND			

Report Date: 06-Jan-2016 10:12:26 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123106.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.367	6.372	-0.005	19363	0.81513	15.526	e
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.512	6.511	0.001	1634456	20.000	380.95	
24 Naphthalene	128.0	6.528	6.533	-0.005	91874	1.0428	19.864	Qe
$ 97 4-Chloroaniline-d4	131.0	6.517	6.543	-0.026	26771	0.74760	14.240	Qe
25 4-Chloroaniline	127.0		6.533		ND			
26 Hexachlorobutadiene	225.0		6.602		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.933		ND			
29 2-Methylnaphthalene	142.0		7.099		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.323		ND			
32 2,4,5-Trichlorophenol	196.0		7.371		ND			
34 1,1'-Biphenyl	154.0		7.478		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.596		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.681	-0.005	60283	1.1065	21.077	e
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.777		ND			
$ 99 Acenaphthylene-d8	160.0	7.863	7.868	-0.005	66317	0.91999	17.524	e
38 Acenaphthylene	152.0		7.884		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.991	7.997	-0.006	834075	20.000	380.95	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.023		ND			
$ 100 4-Nitrophenol-d4	143.0	8.077	8.055	0.022	11374	0.85392	16.265	Qe
44 4-Nitrophenol	109.0		8.061		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.167		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.258		ND			
47 Diethylphthalate	149.0		8.285		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.424	8.435	-0.011	40531	0.79293	15.103	e
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.461		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0		8.472		ND			
51 4,6-Dinitro-2-methylphenol	198.0		8.483		ND			
52 N-Nitrosodiphenylamine	169.0		8.520		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.931		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.268	-0.005	1426520	20.000	380.95	
59 Phenanthrene	178.0		9.289		ND			
$ 103 Anthracene-d10	188.0	9.306	9.316	-0.010	75197	1.0340	19.695	Qe
60 Anthracene	178.0		9.337		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.663		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.625	10.636	-0.011	41339	0.60436	11.512	e

	Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
	64 Pyrene	202.0		10.657		ND			
	66 Butylbenzylphthalate	149.0		11.271		ND			
	71 bis(2-Ethylhexyl)phthalate	149.0		11.998		ND			
	68 3,3'-Dichlorobenzidine	252.0		12.067		ND			
	67 Benzo(a)anthracene	228.0		12.158		ND			
*	69 Chrysene-d12	240.0	12.169	12.179	-0.010	1567643	20.000	380.95	
	70 Chrysene	228.0		12.217		ND			
	72 Di-n-octylphthalate	149.0		12.981		ND			
	73 Benzo(b)fluoranthene	252.0		13.809		ND			
	74 Benzo(k)fluoranthene	252.0		13.857		ND			
$	105 Benzo(a)pyrene-d12	264.0		14.316		ND			
	75 Benzo(a)pyrene	252.0		14.370		ND			
*	76 Perylene-d12	264.0	14.445	14.461	-0.016	1478425	20.000	380.95	
	77 Indeno(1,2,3-cd)pyrene	276.0		16.624		ND			
	78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
	79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Lab Sample ID:	QL16010-003	Client Sample ID:	F6R33RX
Injection Date:	31-Dec-2015 10:49:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QL16010-003		
Misc. Info:	92944 20X		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	06-Jan-2016 10:12:30

Tentative Identified Compound Results

RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
576-26-1 Phenol, 2,6-dimethyl-								
5.983	1030312	8.2662	157.45	8	98	9926	C8H10O	122
108-68-9 Phenol, 3,5-dimethyl-								
6.271	1356276	6.8798	131.04	23	94	9933	C8H10O	122
95-65-8 Phenol, 3,4-dimethyl-								
6.421	1077520	5.4658	104.11	23	94	9935	C8H10O	122
1687-64-5 Phenol, 2-ethyl-6-methyl-								
6.581	642663	3.2599	62.094	23	91	16429	C9H12O	136
1123-94-0 Phenol, 4-ethyl-3-methyl-								
6.651	1972364	10.005	190.57	23	94	16430	C9H12O	136
3855-26-3 Phenol, 2-ethyl-4-methyl-								
6.747	891656	4.5230	86.152	23	91	16433	C9H12O	136
496-78-6 Phenol, 2,4,5-trimethyl-								
6.827	893064	4.5301	86.288	23	95	16414	C9H12O	136
90-12-0 Naphthalene, 1-methyl-								
7.094	531076	2.6939	51.313	23	94	19232	C11H10	142
4453-90-1 1,4-Methanonaphthalene, 1,4-dihydro-								
7.185	487827	2.4745	47.134	23	91	19242	C11H10	142

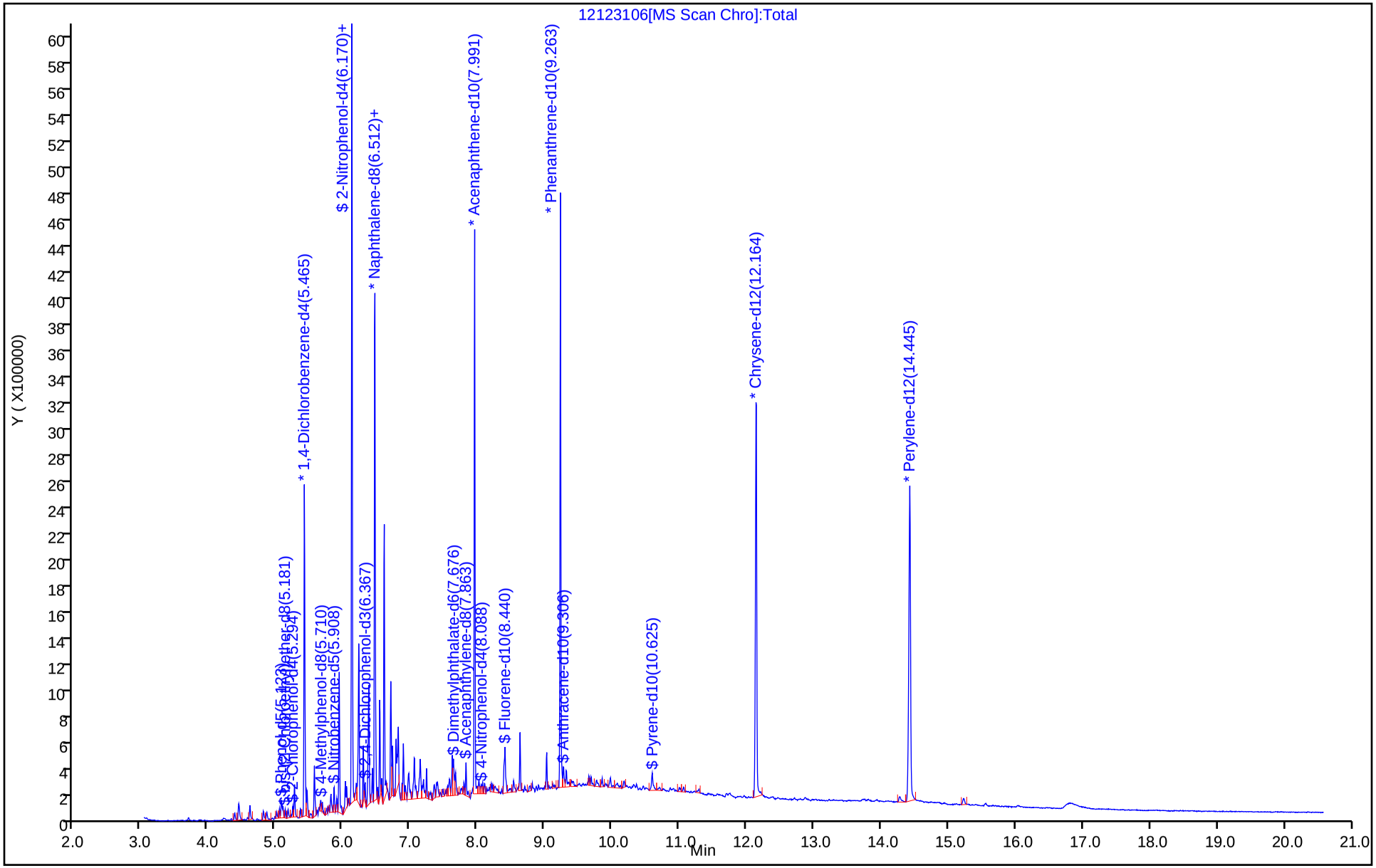
Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.465	2492833	20.000

Quant. Compounds	RT	Response	Amount ng/ul
* 23 Naphthalene-d8	6.512	3942783	20.000

Report Date: 06-Jan-2016 10:12:27 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D				
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R33RX	Lab ID:	QL16010-003		
Sample Info:	12123115.b, QL16010-003				
Injection Vol.	1.00 1	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

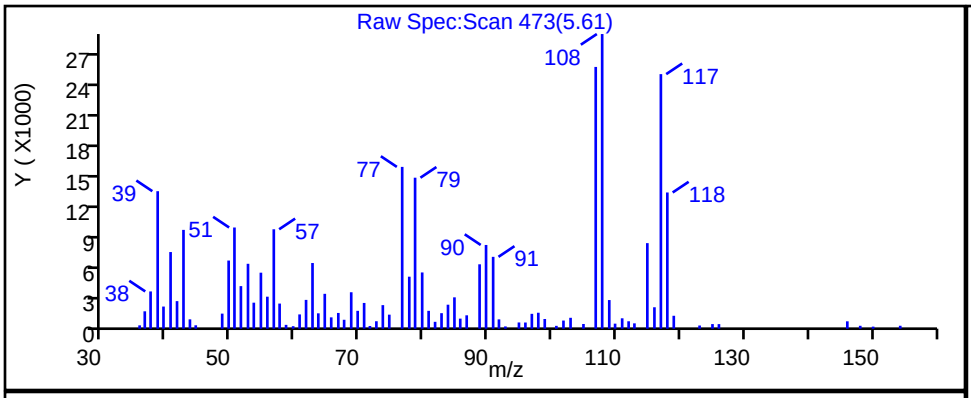


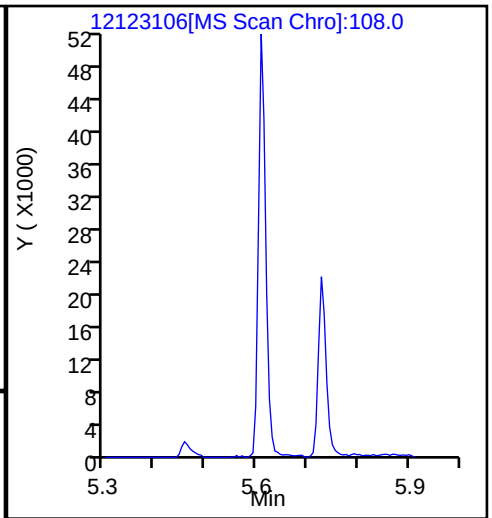
Report Date: 06-Jan-2016 10:12:27 AIM Revision: 1.0 26-May-2015 13:41:26

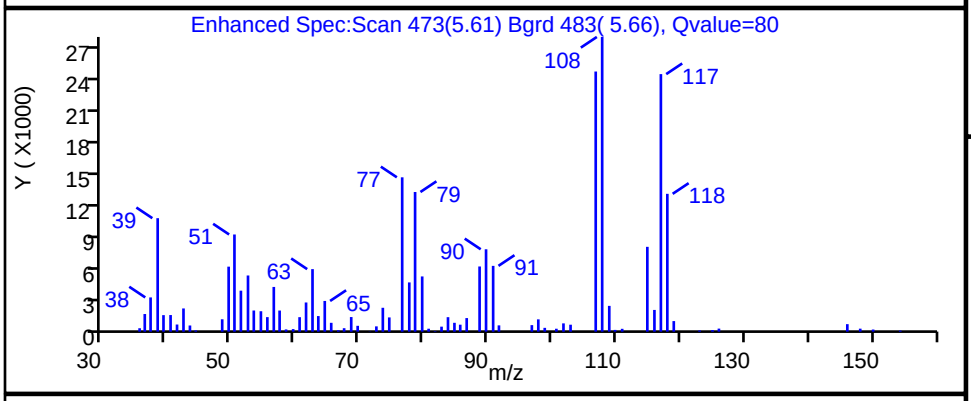
Shealy Environmental Services

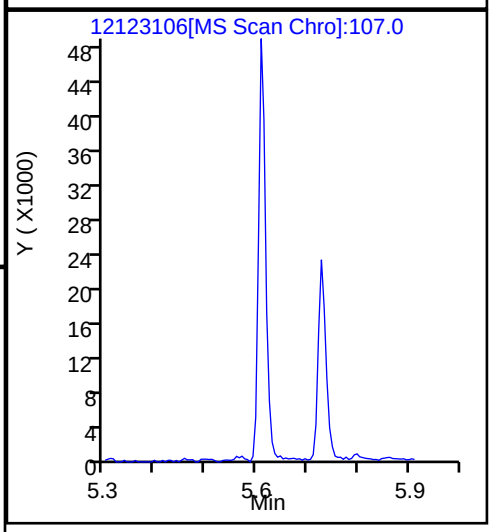
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

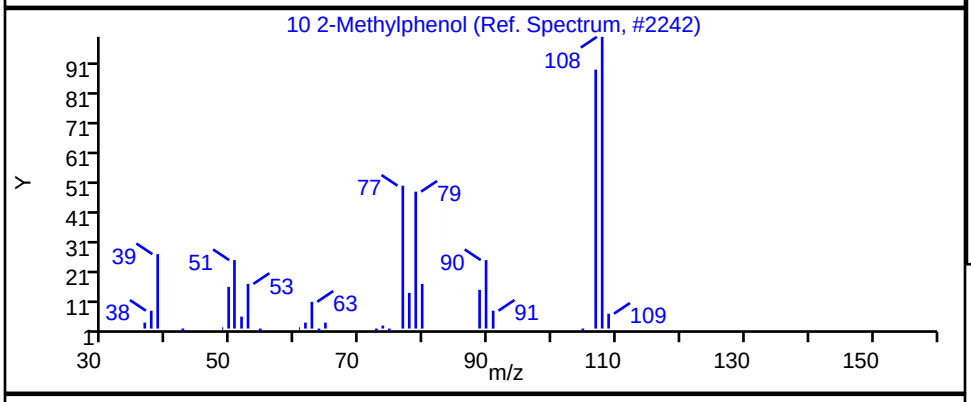
10 2-Methylphenol

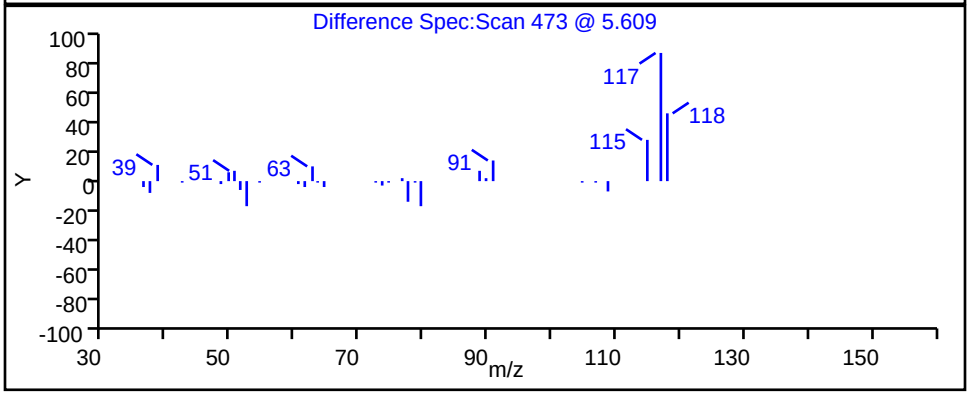












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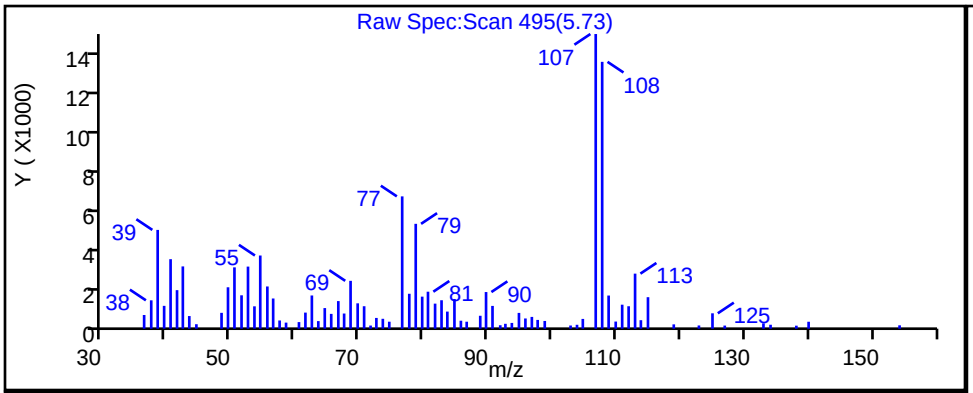
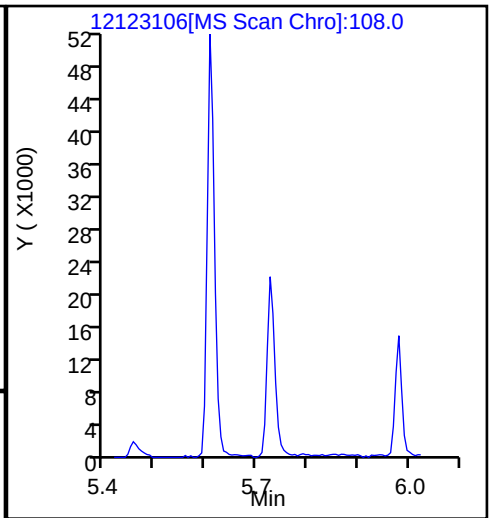
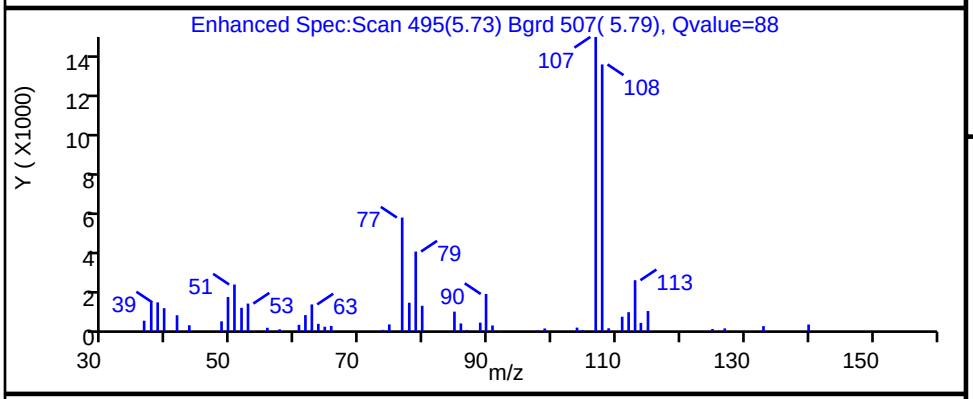
Shealy Environmental Services

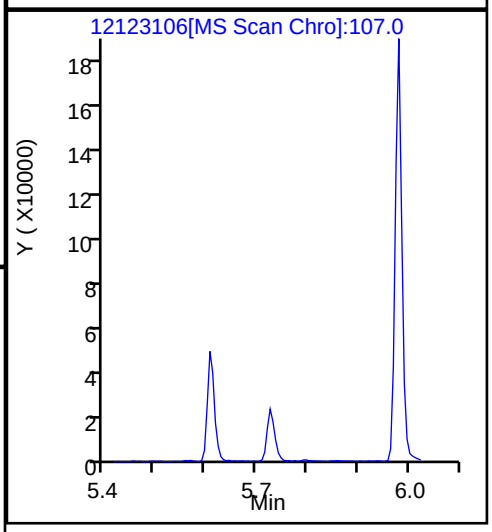
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

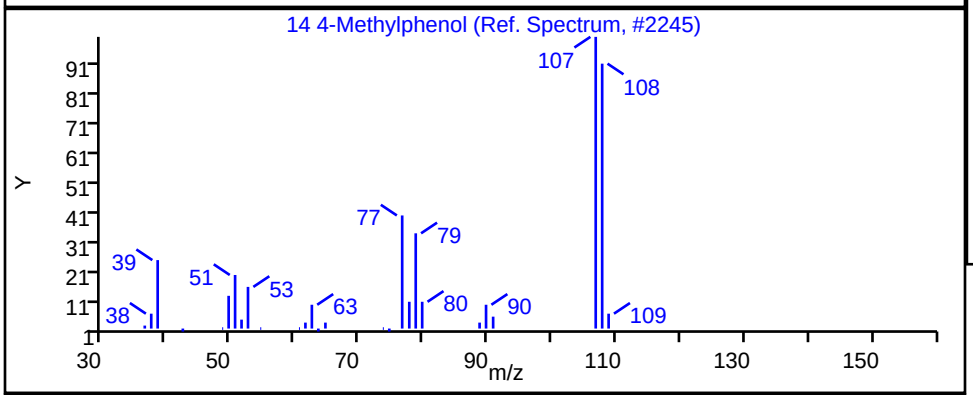
14 4-Methylphenol

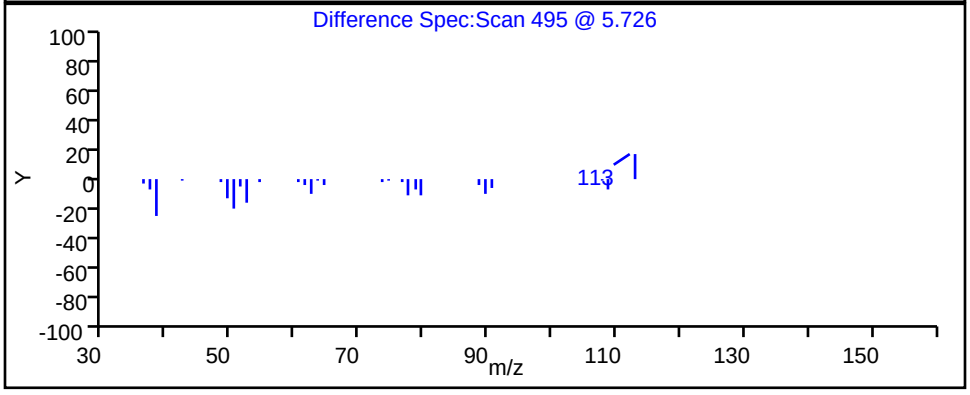












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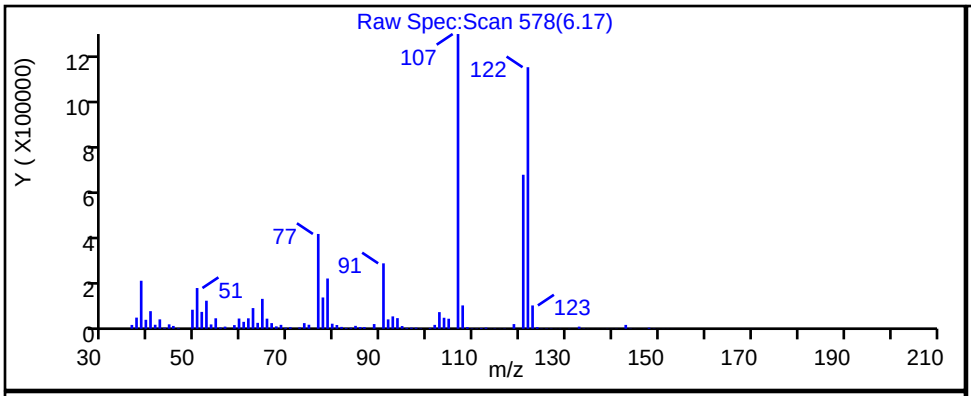
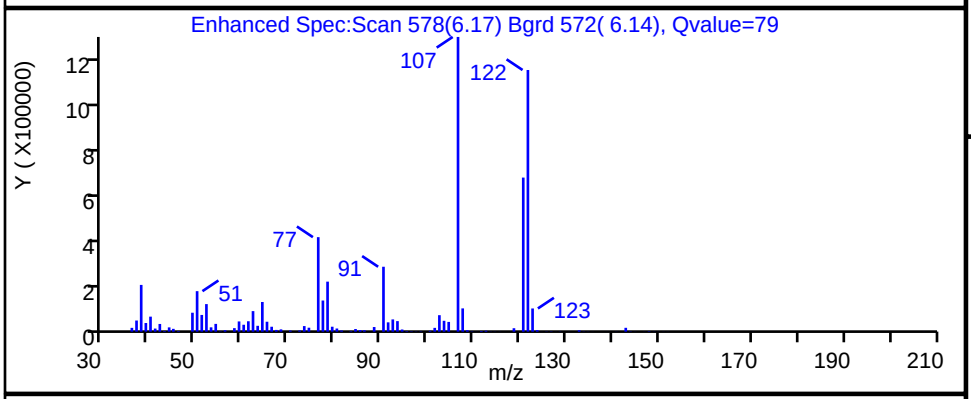
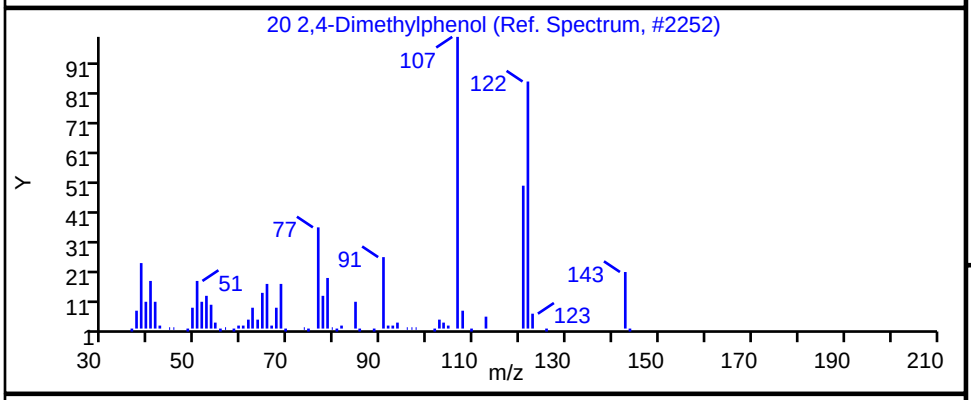
Shealy Environmental Services

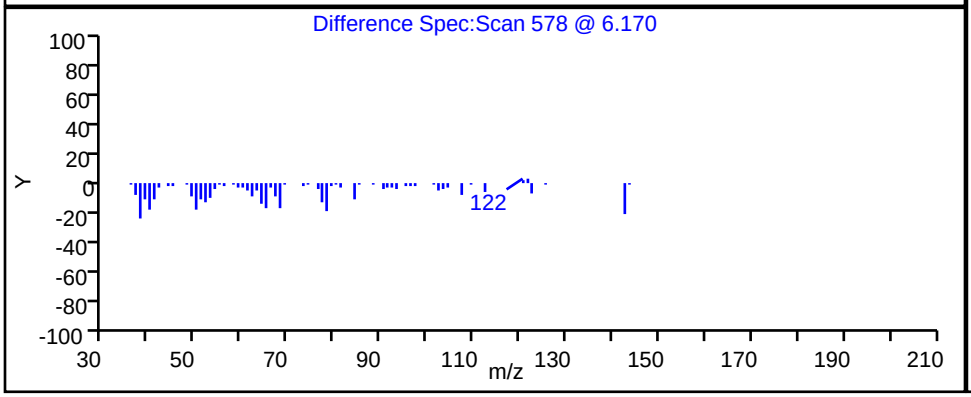
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

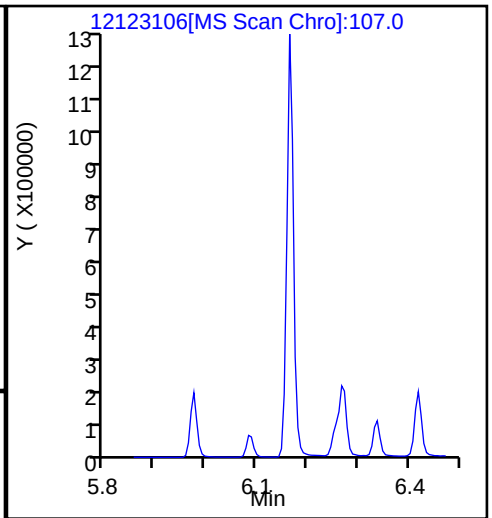
20 2,4-Dimethylphenol

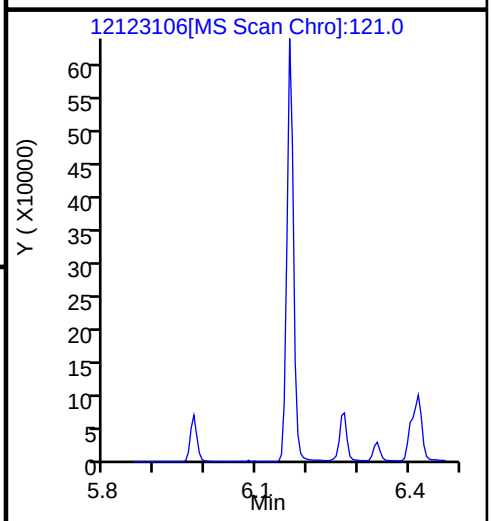


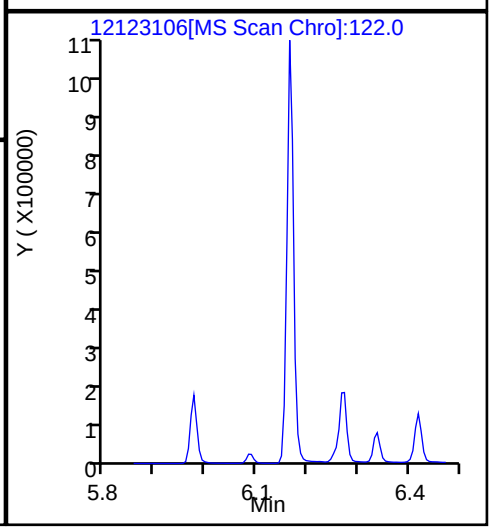












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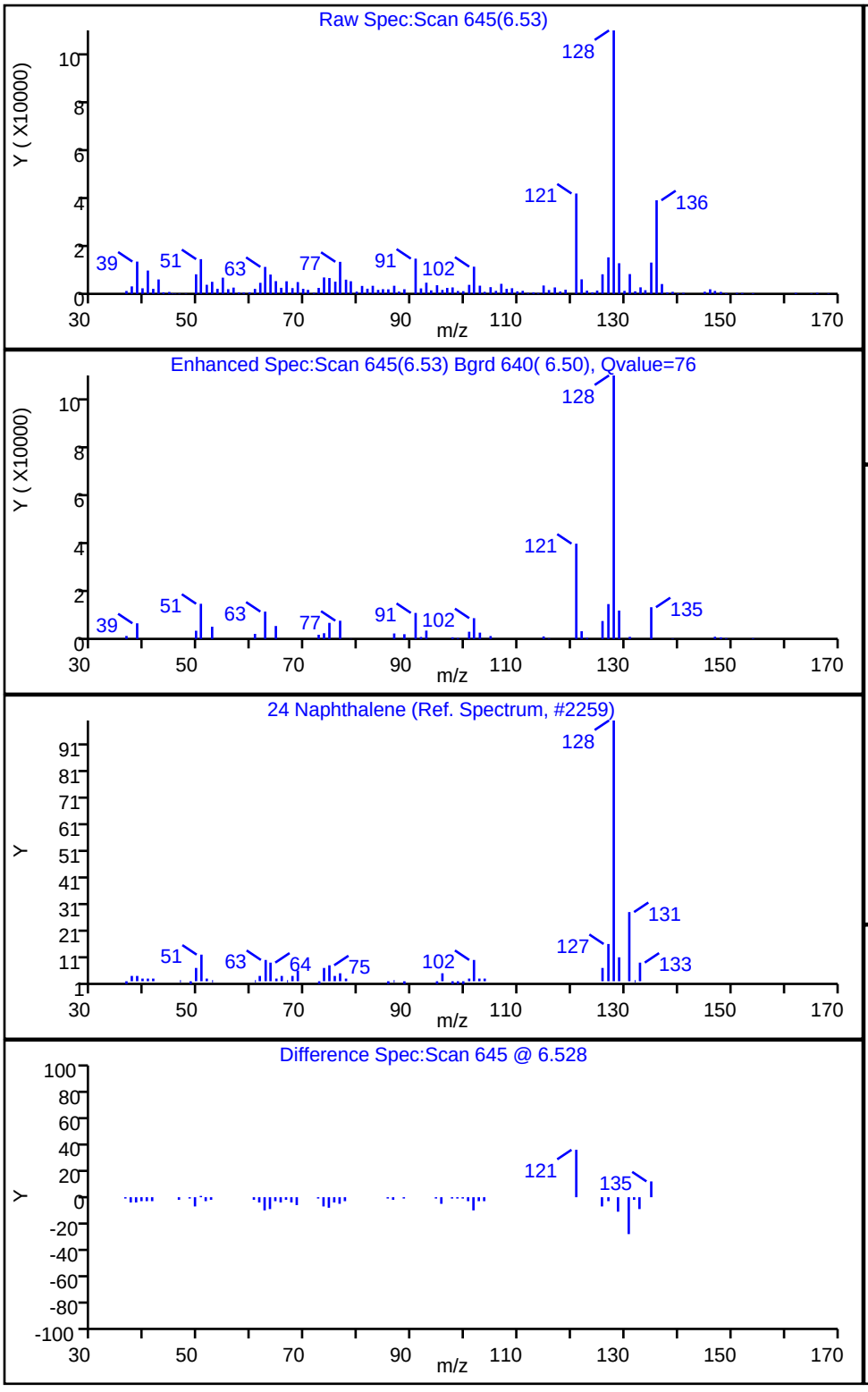
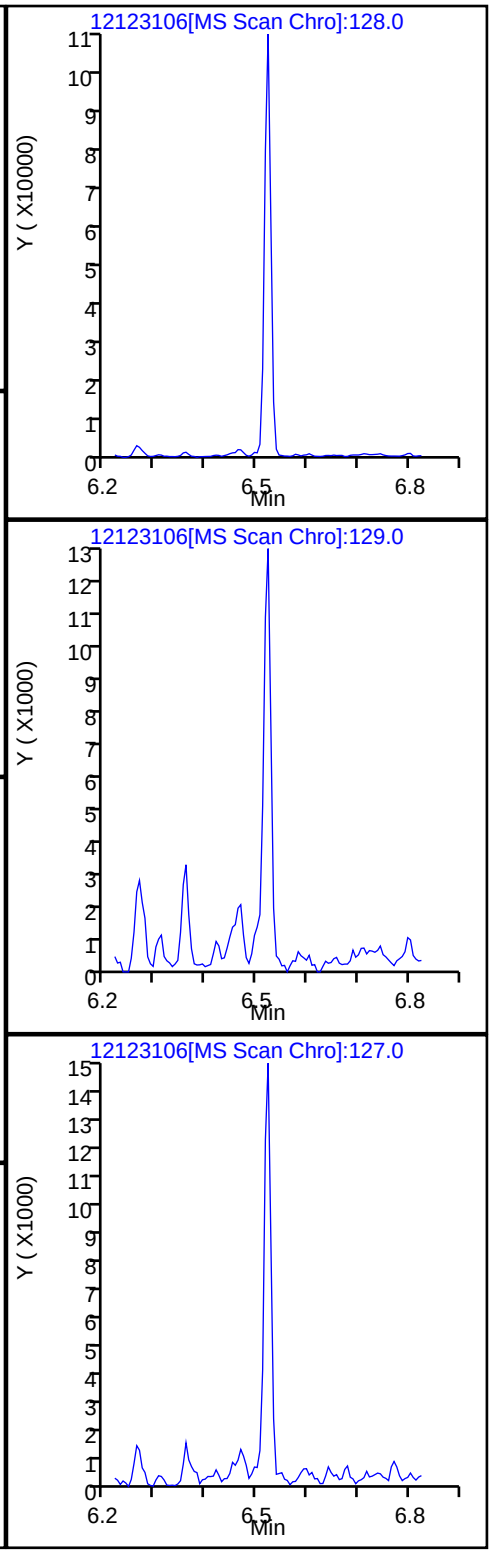
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene





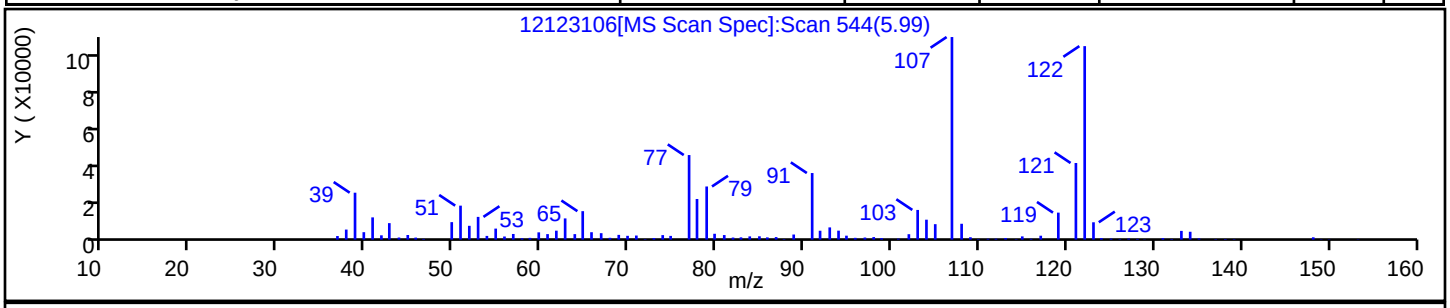
Report Date: 06-Jan-2016 10:12:27 AIM Revision: 1.0 26-May-2015 13:41:26

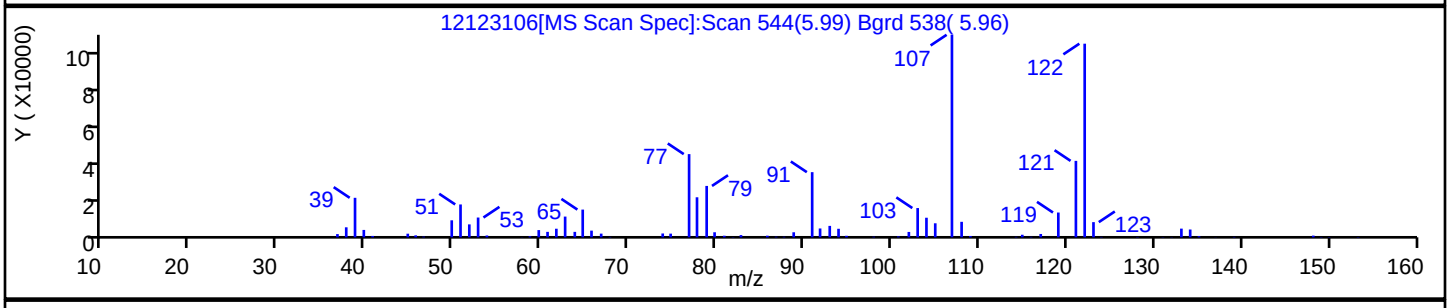
Shealy Environmental Services

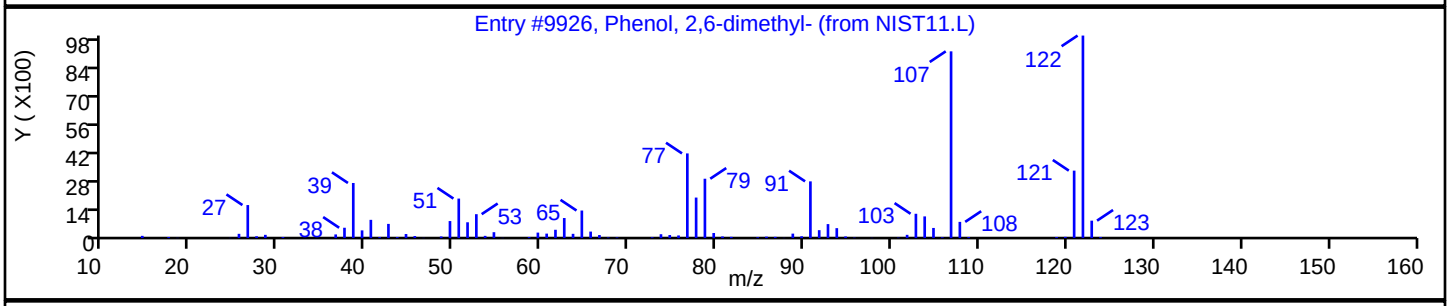
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

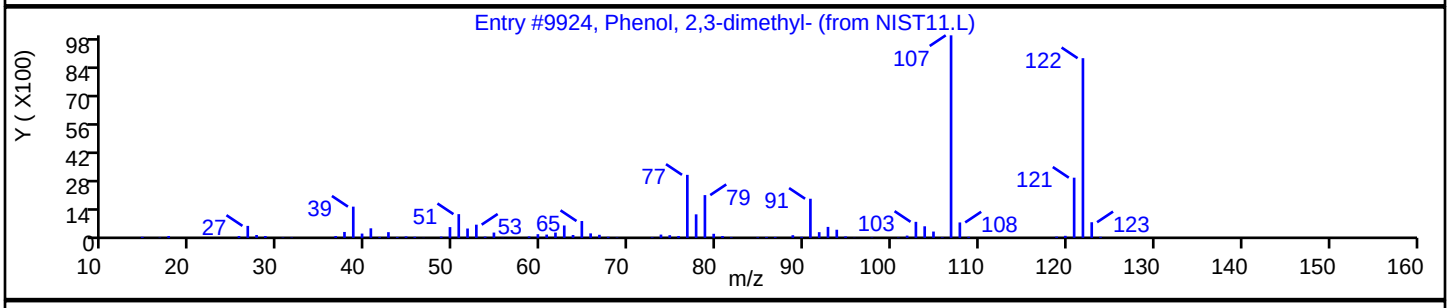
TIC @ 5.983

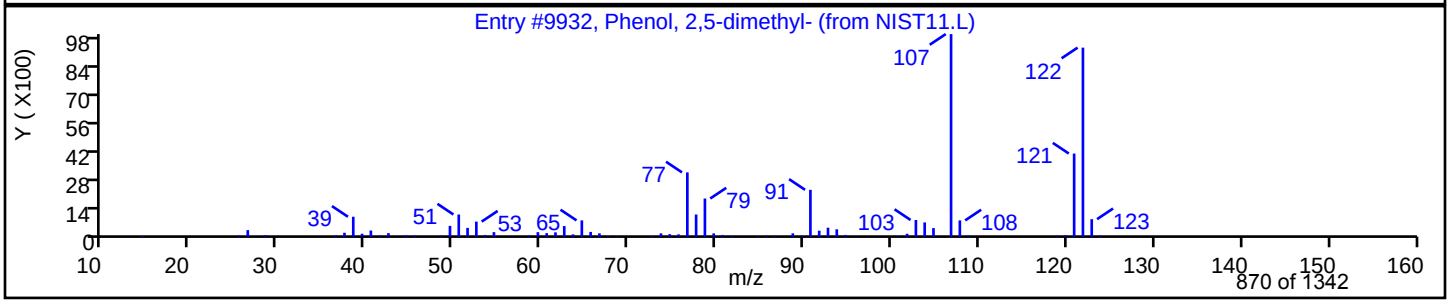
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,6-dimethyl-	576-26-1	NIST11	9926	C8H10O	122	98
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9924	C8H10O	122	97
Phenol, 2,5-dimethyl-	95-87-4	NIST11	9932	C8H10O	122	97











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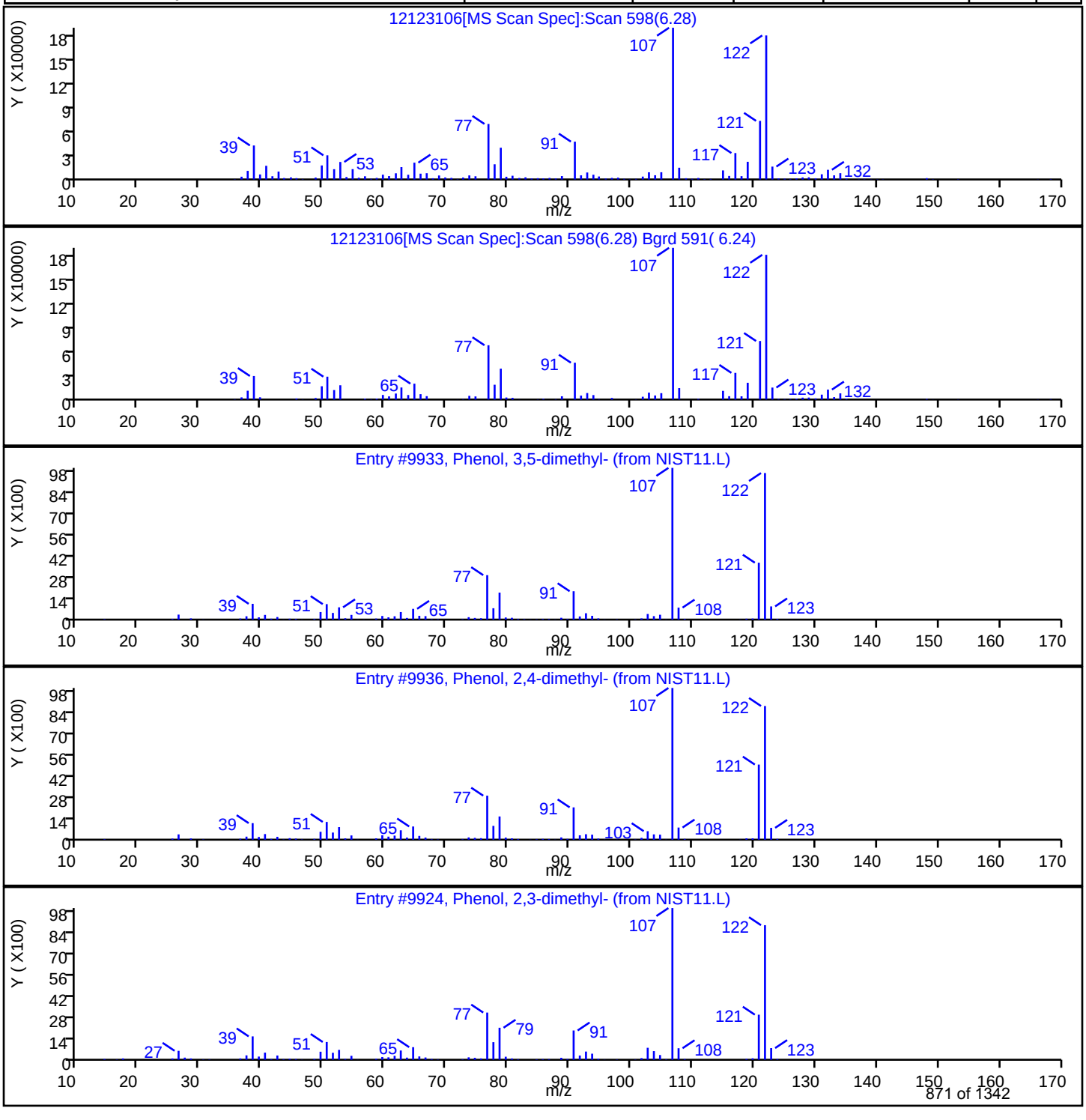
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.271

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,5-dimethyl-	108-68-9	NIST11	9933	C8H10O	122	94
Phenol, 2,4-dimethyl-	105-67-9	NIST11	9936	C8H10O	122	95
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9924	C8H10O	122	89



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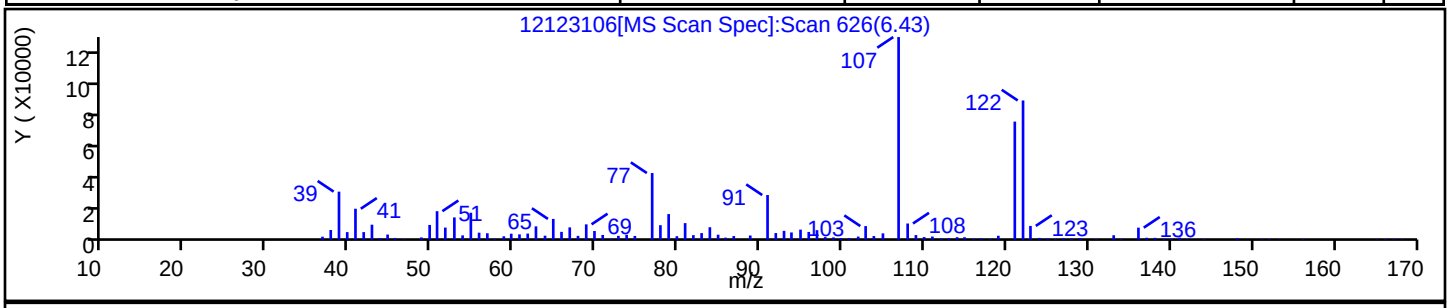
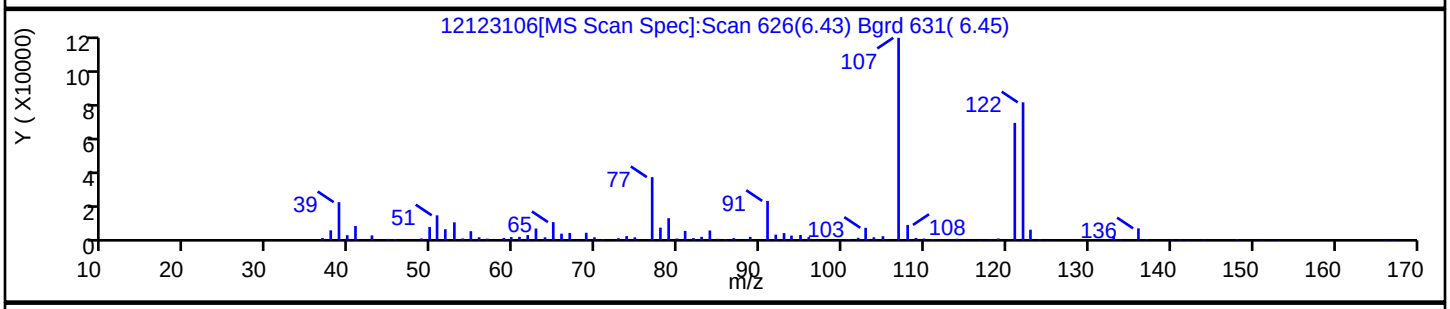
Shealy Environmental Services

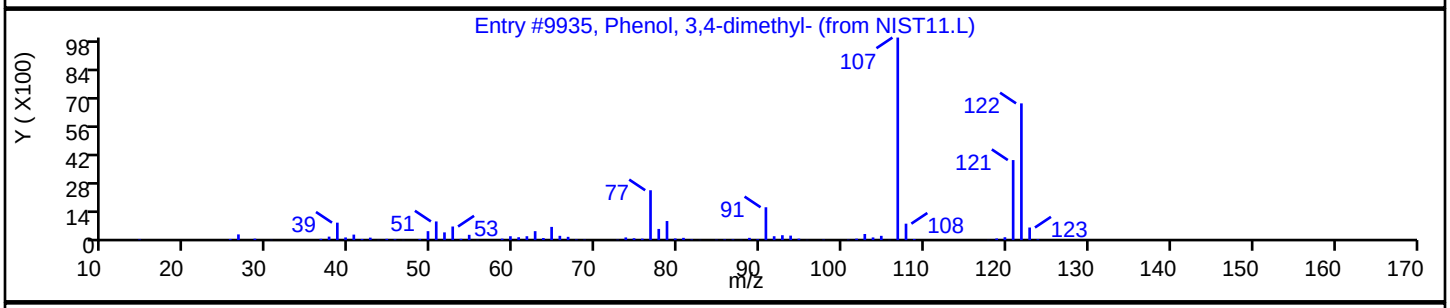
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

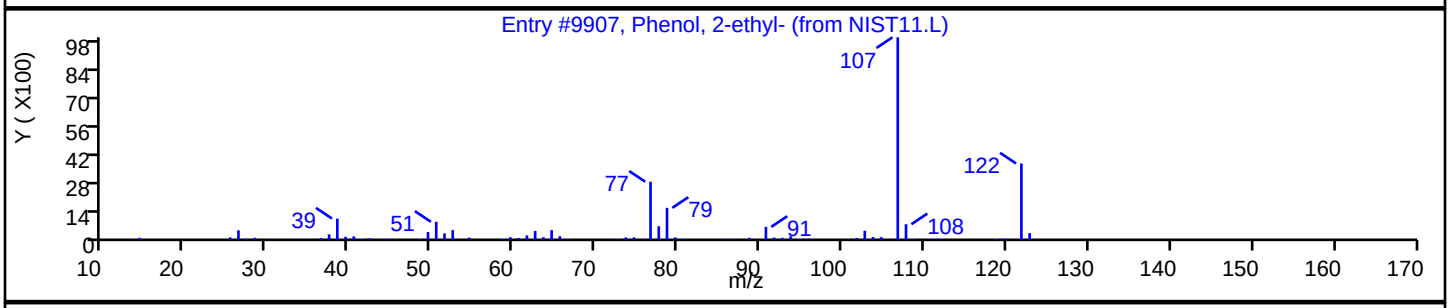
TIC @ 6.421

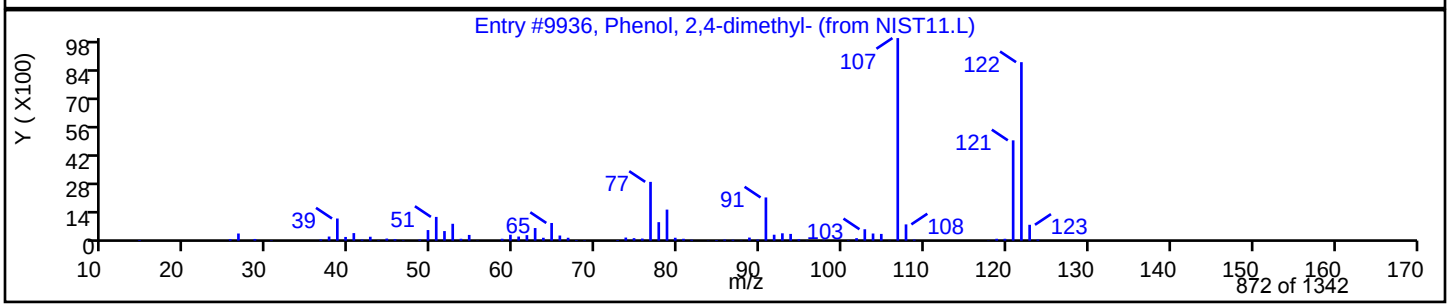
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9935	C8H10O	122	94
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	93
Phenol, 2,4-dimethyl-	105-67-9	NIST11	9936	C8H10O	122	93











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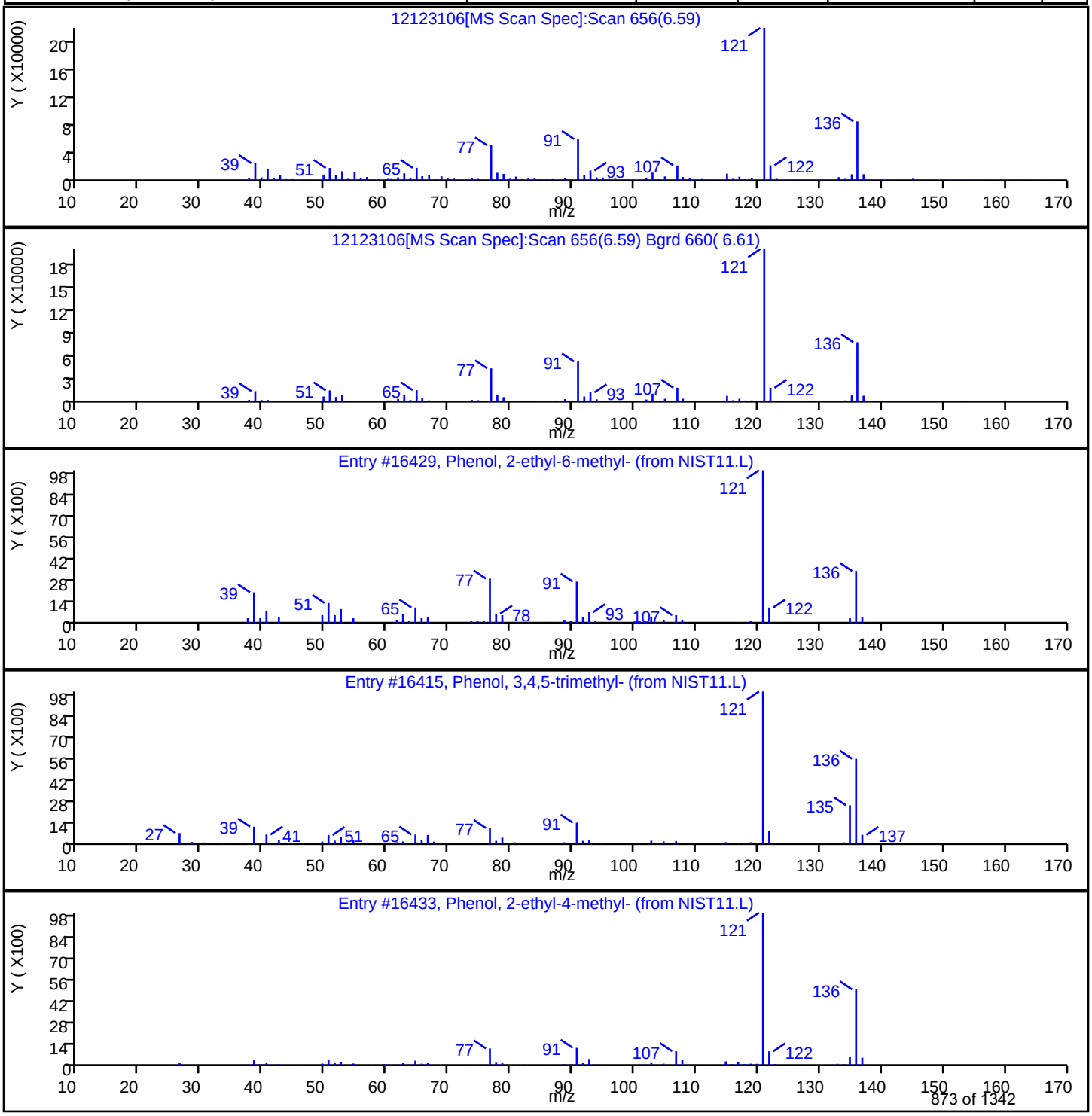
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.581

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-6-methyl-	1687-64-5	NIST11	16429	C9H12O	136	91
Phenol, 3,4,5-trimethyl-	527-54-8	NIST11	16415	C9H12O	136	91
Phenol, 2-ethyl-4-methyl-	3855-26-3	NIST11	16433	C9H12O	136	91



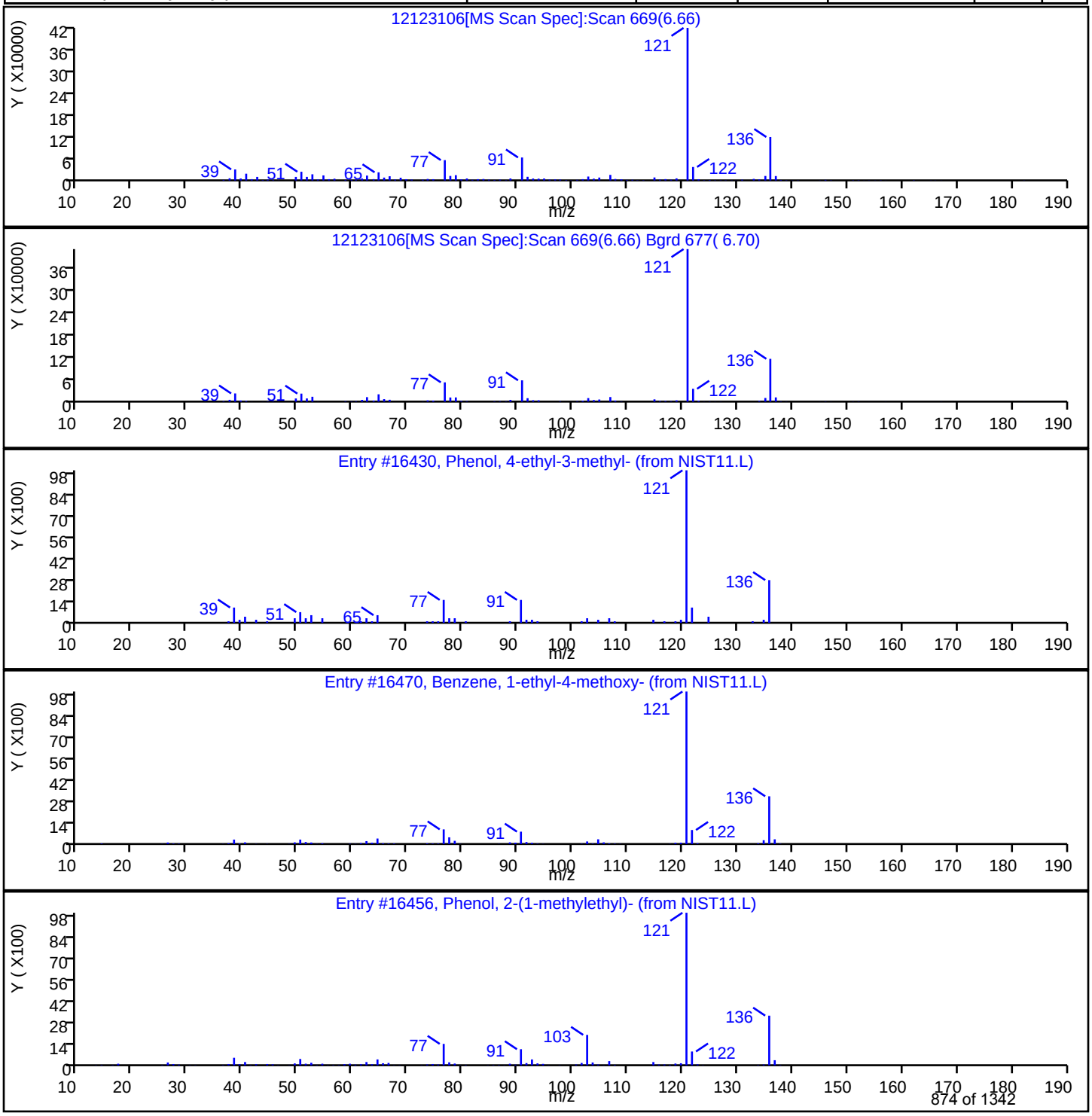
Report Date: 06-Jan-2016 10:12:27 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.651

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4-ethyl-3-methyl-	1123-94-0	NIST11	16430	C9H12O	136	94
Benzene, 1-ethyl-4-methoxy-	1515-95-3	NIST11	16470	C9H12O	136	91
Phenol, 2-(1-methylethyl)-	88-69-7	NIST11	16456	C9H12O	136	91



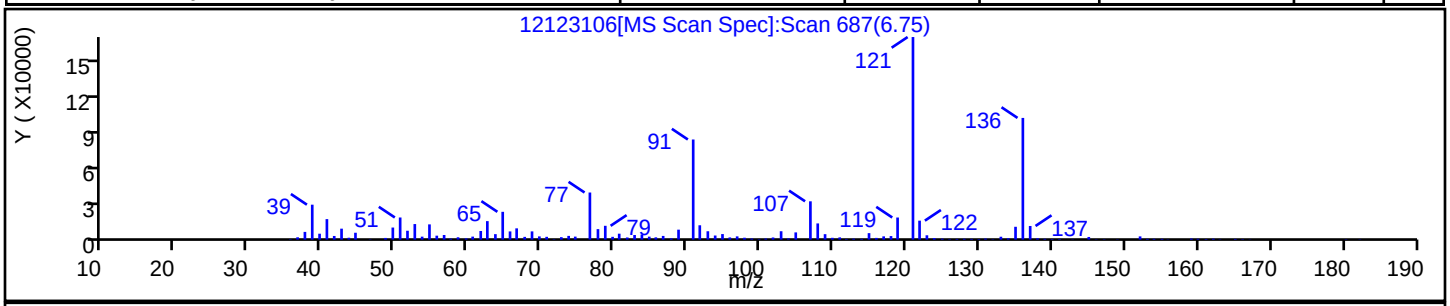
Report Date: 06-Jan-2016 10:12:27 AIM Revision: 1.0 26-May-2015 13:41:26

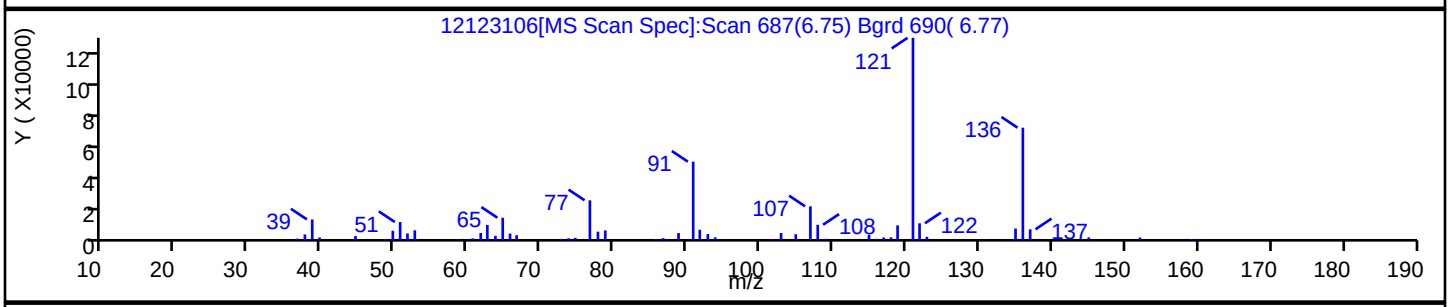
Shealy Environmental Services

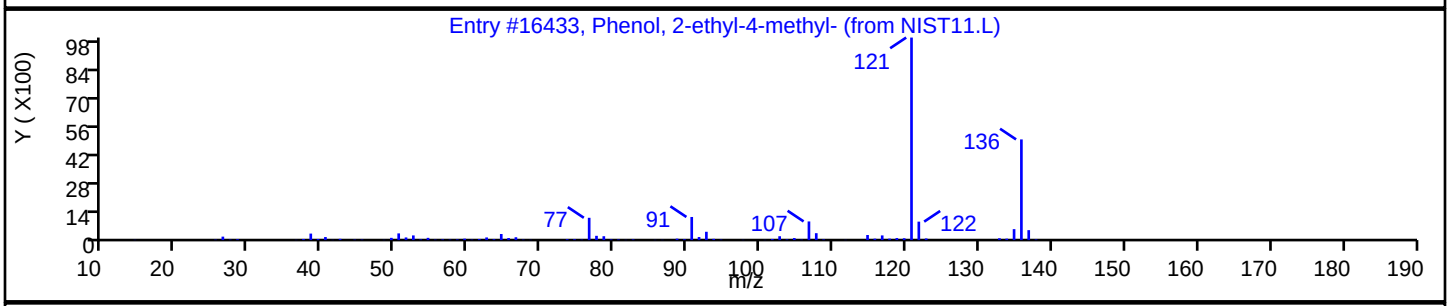
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

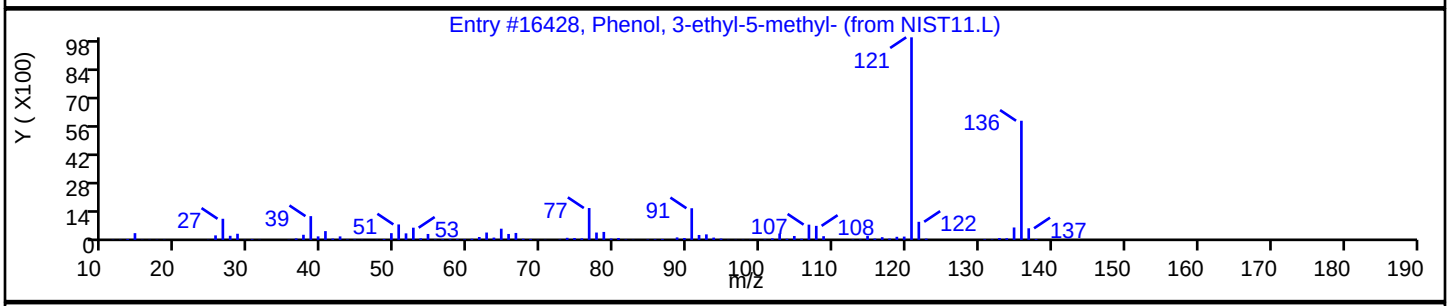
TIC @ 6.747

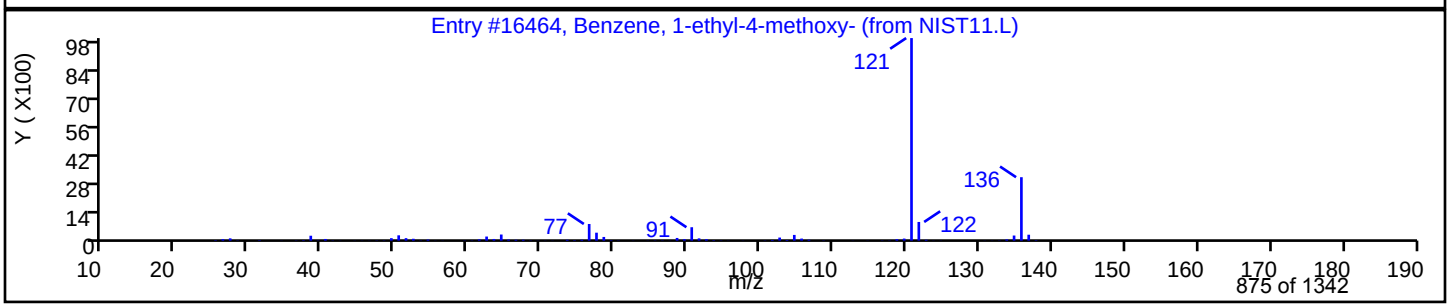
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-4-methyl-	3855-26-3	NIST11	16433	C9H12O	136	91
Phenol, 3-ethyl-5-methyl-	698-71-5	NIST11	16428	C9H12O	136	90
Benzene, 1-ethyl-4-methoxy-	1515-95-3	NIST11	16464	C9H12O	136	87











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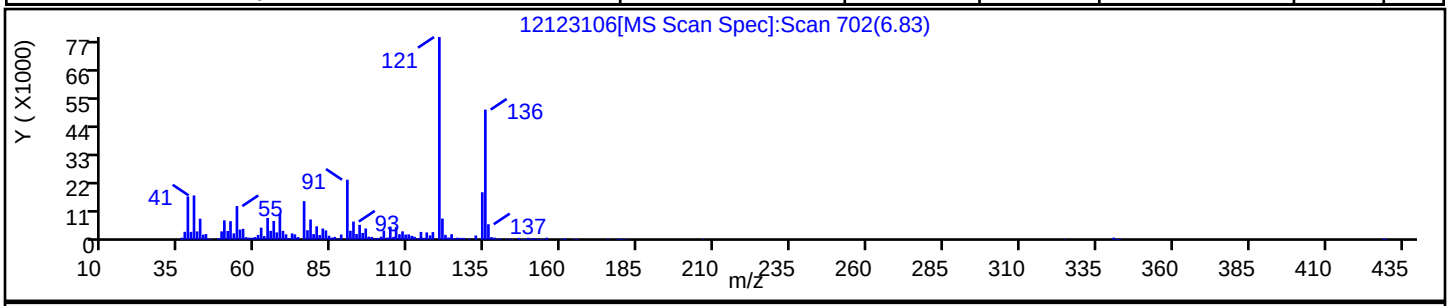
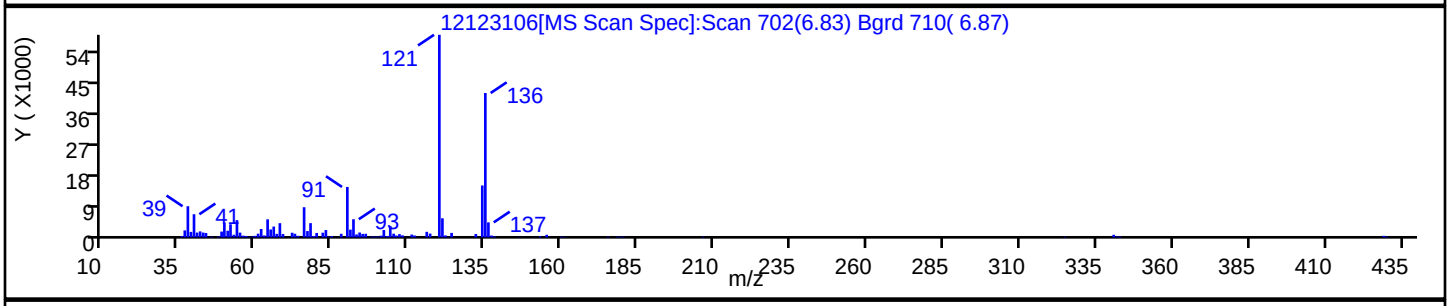
Shealy Environmental Services

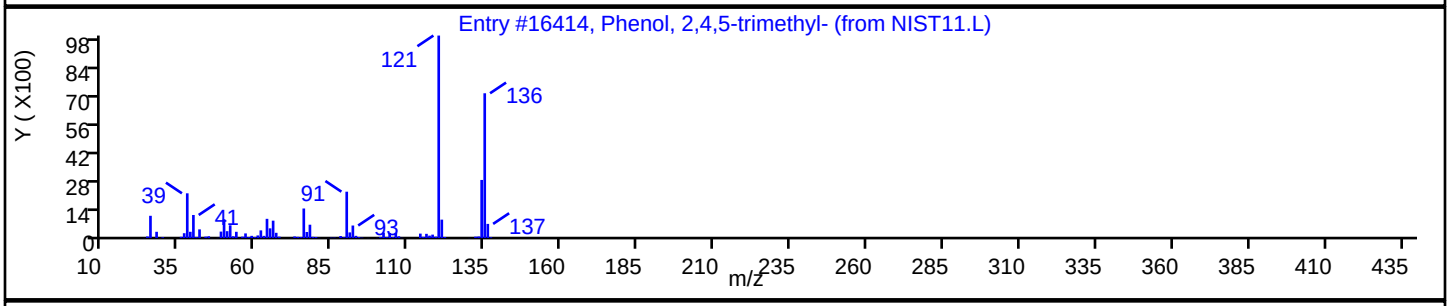
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

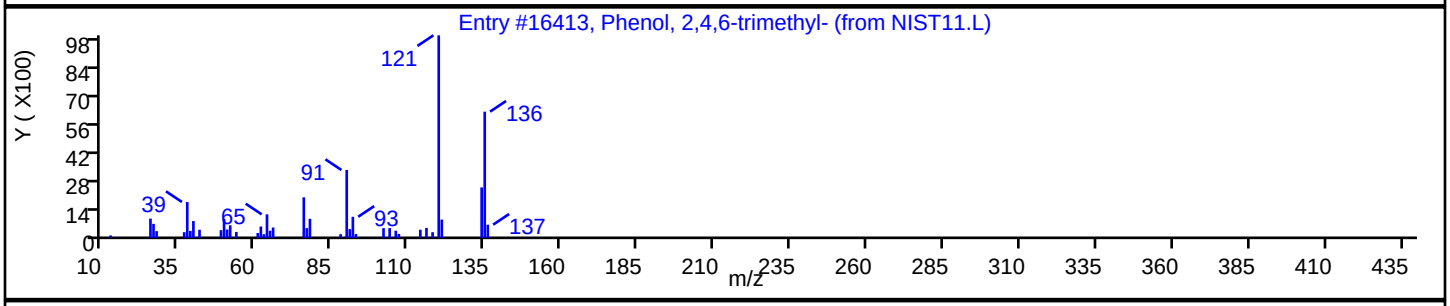
TIC @ 6.827

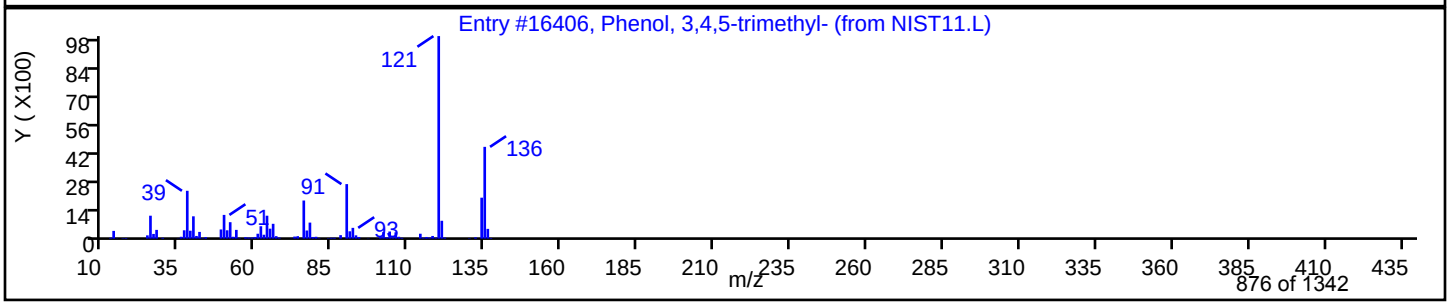
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,4,5-trimethyl-	496-78-6	NIST11	16414	C9H12O	136	95
Phenol, 2,4,6-trimethyl-	527-60-6	NIST11	16413	C9H12O	136	94
Phenol, 3,4,5-trimethyl-	527-54-8	NIST11	16406	C9H12O	136	91











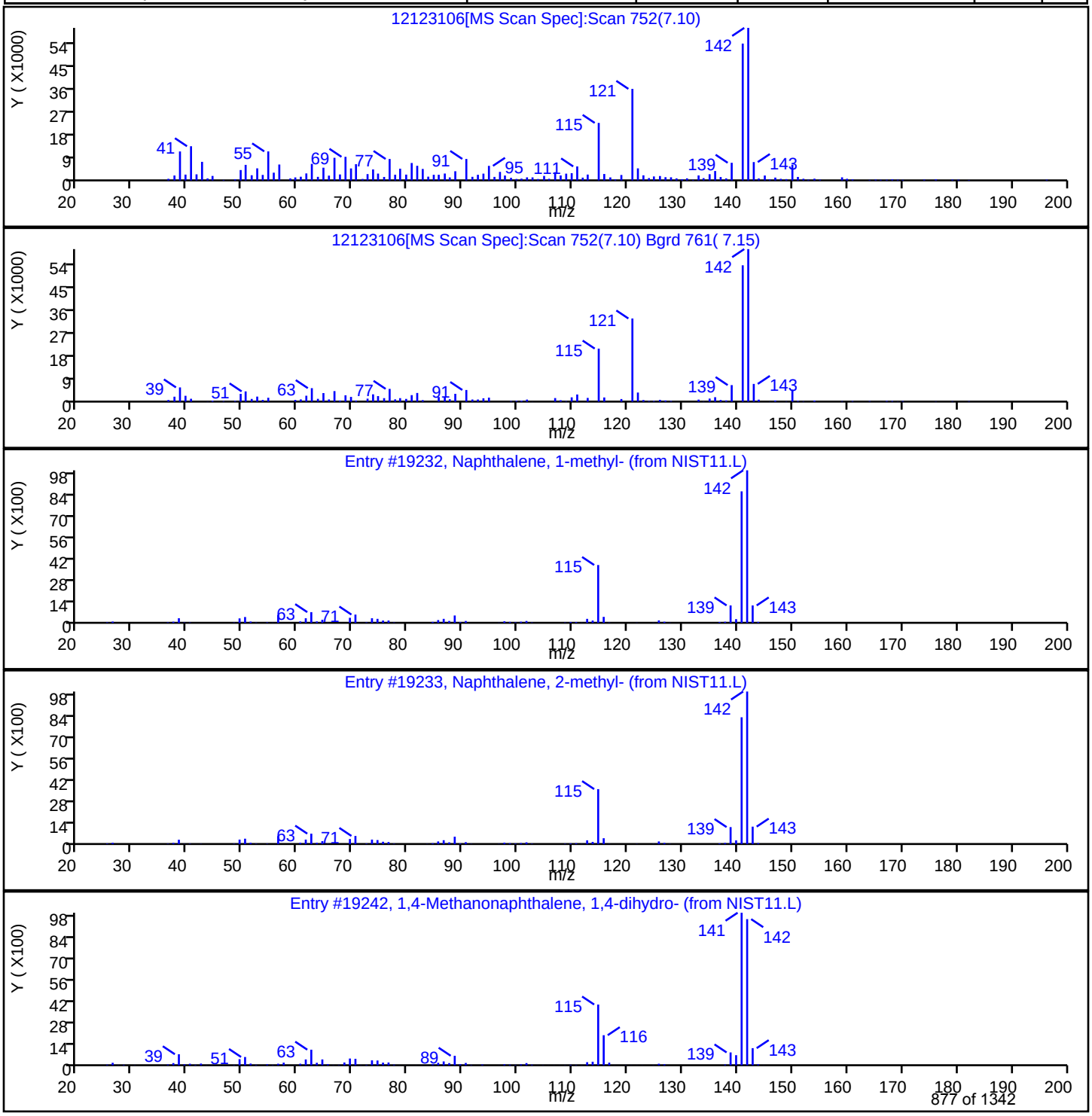
Report Date: 06-Jan-2016 10:12:27 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.094

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	94
Naphthalene, 2-methyl-	91-57-6	NIST11	19233	C11H10	142	93
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NIST11	19242	C11H10	142	93



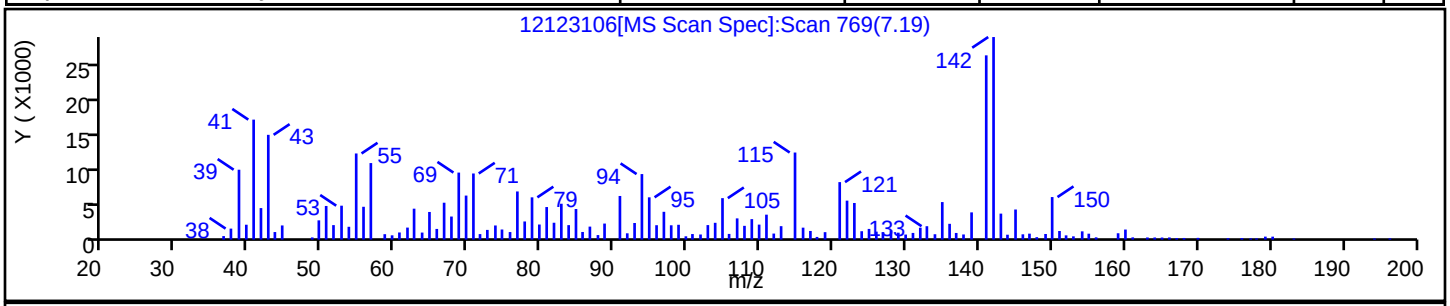
Report Date: 06-Jan-2016 10:12:27 AIM Revision: 1.0 26-May-2015 13:41:26

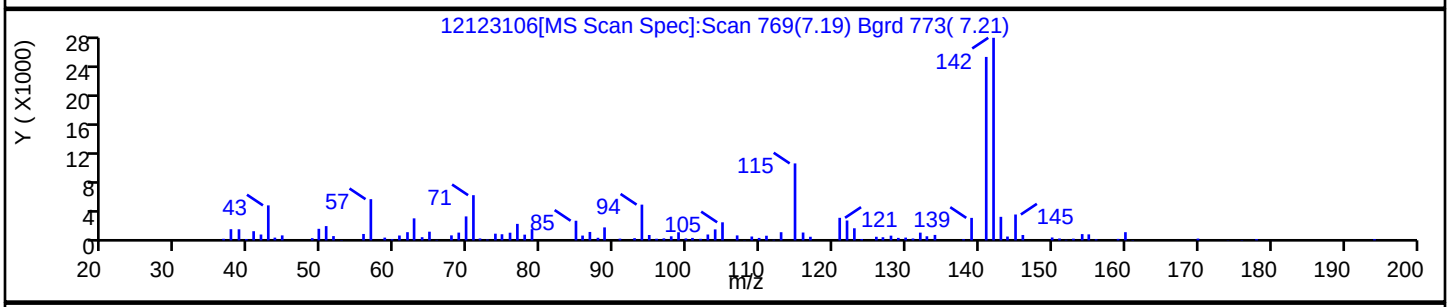
Shealy Environmental Services

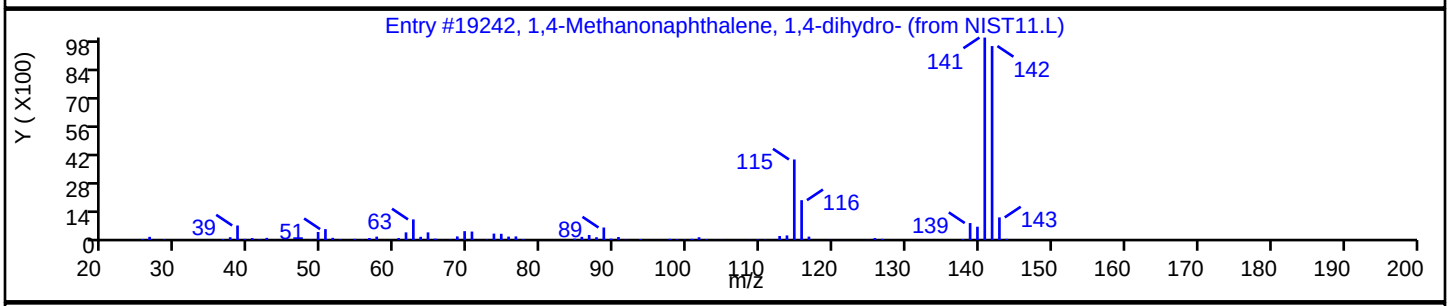
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123106.D		
Injection Date:	31-Dec-2015 10:49:30	Inst. ID:	msd12.i
Client ID:	F6R33RX	Lab ID:	QL16010-003
Sample Info:	12123115.b, QL16010-003		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

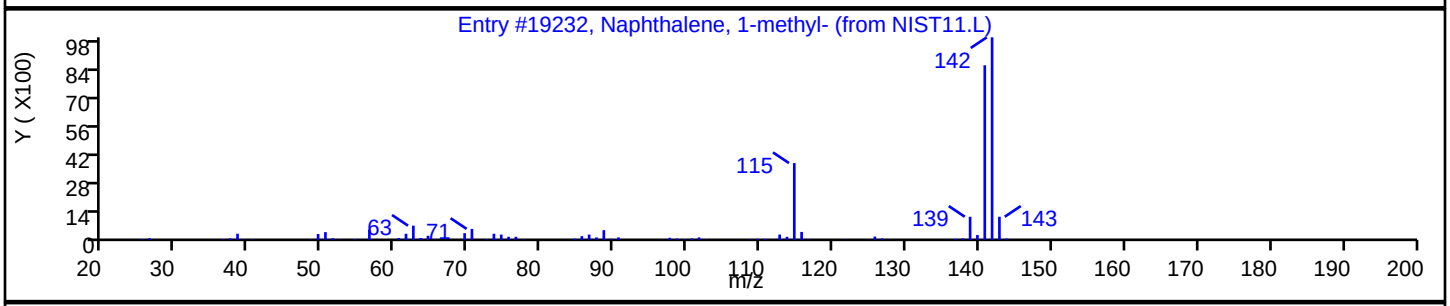
TIC @ 7.185

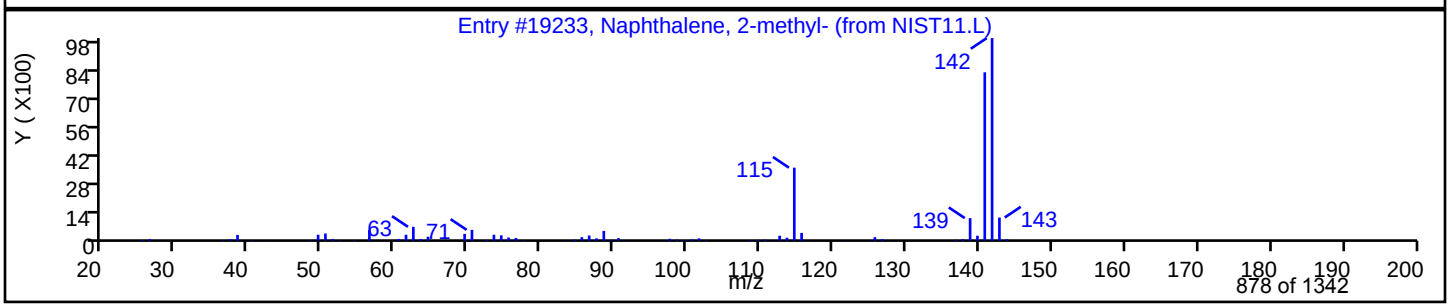
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NIST11	19242	C11H10	142	91
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	94
Naphthalene, 2-methyl-	91-57-6	NIST11	19233	C11H10	142	94











FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R34

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-004

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122222

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	38	U
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-Chloroethyl) ether	190	U
95-57-8	2-Chlorophenol	95	U
95-48-7	2-Methylphenol	23	J B
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	14	J B
621-64-7	N-Nitroso-di-n propylamine	95	U
67-72-1	Hexachloroethane	95	U
98-95-3	Nitrobenzene	95	U
78-59-1	Isophorone	95	U
88-75-5	2-Nitrophenol	95	U
105-67-9	2,4-Dimethylphenol	95	U
111-91-1	Bis(2-chloroethoxy)methane	95	U
120-83-2	2,4-Dichlorophenol	95	U
91-20-3	Naphthalene	26	J
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	95	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	95	U
91-57-6	2-Methylnaphthalene	91	J
77-47-4	Hexachlorocyclo-pentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	95	U
95-95-4	2,4,5-Trichlorophenol	95	U
92-52-4	1,1'-Biphenyl	95	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R34

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-004

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122222

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	95	U
88-74-4	2-Nitroaniline	95	U
131-11-3	Dimethylphthalate	95	U
606-20-2	2,6-Dinitrotoluene	95	U
208-96-8	Acenaphthylene	95	U
99-09-2	3-Nitroaniline	190	U
83-32-9	Acenaphthene	95	U
51-28-5	2,4-Dinitrophenol	190	U
100-02-7	4-Nitrophenol	190	U
132-64-9	Dibenzofuran	95	U
121-14-2	2,4-Dinitrotoluene	95	U
84-66-2	Diethylphthalate	95	U
95-94-3	1,2,4,5-Tetrachlorobenzene	95	U
7005-72-3	4-Chlorophenyl-phenyl ether	95	U
86-73-7	Fluorene	95	U
100-01-6	4-Nitroaniline	190	U
534-52-1	4,6-Dinitro-2-methylphenol	190	U
101-55-3	4-Bromophenyl-phenylether	95	U
86-30-6	N-Nitrosodiphenylamine	95	U
118-74-1	Hexachlorobenzene	95	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	190	U
85-01-8	Phenanthrene	26	J
120-12-7	Anthracene	95	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	95	U
206-44-0	Fluoranthene	190	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R34

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-004

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122222

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	95	U
85-68-7	Butylbenzylphthalate	95	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	95	U
218-01-9	Chrysene	95	U
117-81-7	Bis(2-ethylhexyl)phthalate	95	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	95	U
207-08-9	Benzo(k)fluoranthene	95	U
50-32-8	Benzo(a)pyrene	95	U
193-39-5	Indeno(1,2,3-cd)pyrene	95	U
53-70-3	Dibenzo(a,h)anthracene	95	U
191-24-2	Benzo(g,h,i)perylene	95	U
58-90-2	2,3,4,6-Tetrachlorophenol	95	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R34

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-004
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 12122222
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 7 Dilution Factor: 20.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.92	1200	J
02		Unknown-02	5.87	1400	J
03					
04		Unknown-03	6.41	300	J
05		Unknown-04	6.49	250	J
06		Unknown-05	6.62	200	J
07					
08		Unknown-06	6.79	440	J
09		Unknown-07	6.93	260	J
10					
11		Unknown-08	7.15	260	J
12	90-12-0	Naphthalene, 1-methyl-	7.19	240	NJ
13					
14					
15		Unknown-09	7.35	310	J
16		Unknown-10	7.45	440	J
17	575-43-9	Naphthalene, 1,6-dimethyl-	7.63	570	NJ
18		Unknown-11	7.70	430	J
19	573-98-8	Naphthalene, 1,2-dimethyl-	7.82	330	NJ
20		Unknown-12	7.91	310	J
21	66563-30-2	Bacchotricuneatin c	8.07	310	NJ
22		Unknown-13	8.16	300	J
23		Unknown-14	8.31	320	J
24		Unknown-15	8.34	380	J
25					
26					
27	529-05-5	Chamazulene	8.81	340	NJ
28		Unknown-16	9.00	320	J
29					
30	13187-99-0	2-Bromo dodecane	9.36	270	NJ
	E966796[2]	Total Alkanes	N/A	2830	J

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Lab Sample ID:	QL16010-004	Client Sample ID:	F6R34
Injection Date:	22-Dec-2015 19:34:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-004		
Misc. Info:	92747 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	19
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 09:52:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.117	5.123	-0.006	49077	1.2421	23.660	Qe
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	1893	0.13099	2.4950	eR
4 Phenol	94.0		5.134		ND			
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	82437	3.0934	58.922	QeR
5 bis(2-Chloroethyl)Ether	93.0		5.230		ND			
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	34610	1.3240	25.219	Qe
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.470	0.005	431351	20.000	380.95	
10 2-Methylphenol	108.0	5.614	5.614	0.000	34698	1.1946	22.755	e
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.699	5.710	-0.011	39464	1.3751	26.192	Qe
14 4-Methylphenol	108.0	5.726	5.732	-0.006	23596	0.74882	14.263	e
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	32133	2.0154	38.389	Qe
17 Nitrobenzene	77.0		5.930		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.170		ND			
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	20357	1.1150	21.237	Qe
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			

Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122222.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.367	6.368	-0.001	39286	1.4657	27.919	Qe
22 2,4-Dichlorophenol	162.0		6.373		ND			
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1844203	20.000	380.95	Q
24 Naphthalene	128.0	6.533	6.533	0.000	134112	1.3491	25.698	Qe
$ 97 4-Chloroaniline-d4	131.0	6.533	6.544	-0.011	523593	12.959	246.83	QR
25 4-Chloroaniline	127.0		6.549		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.918		ND			
29 2-Methylnaphthalene	142.0	7.104	7.105	-0.001	305978	4.7702	90.860	e
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.522		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.681	7.687	-0.006	105169	1.3991	26.650	Qe
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.874	7.869	0.005	115284	1.1591	22.079	Qe
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	8.002	7.997	0.005	1150797	20.000	380.95	
43 2,4-Dinitrophenol	184.0		8.018		ND			
42 Acenaphthene	153.0		8.024		ND			
$ 100 4-Nitrophenol-d4	143.0	7.981	8.034	-0.053	131211	7.1397	135.99	QeR
44 4-Nitrophenol	109.0		8.040		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	68225	0.96739	18.426	Qe
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.461	8.472	-0.011	53472	2.6598	50.663	QeR
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.943		ND			
57 Pentachlorophenol	266.0		9.087		ND			
* 58 Phenanthrene-d10	188.0	9.273	9.268	0.005	2208781	20.000	380.95	
59 Phenanthrene	178.0	9.289	9.290	-0.001	165962	1.3494	25.703	Qe
$ 103 Anthracene-d10	188.0	9.316	9.316	0.000	98966	0.87886	16.740	Qe
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.664		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	76191	0.71387	13.597	Qe

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
64 Pyrene	202.0		10.663		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.004		ND			
68 3,3'-Dichlorobenzidine	252.0		12.068		ND			
67 Benzo(a)anthracene	228.0		12.159		ND			
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	2446082	20.000	380.95	
70 Chrysene	228.0		12.217		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.852		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.461	14.317	0.144	2303506	20.660	393.53	QR
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.461	14.461	0.000	2299986	20.000	380.95	
77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Lab Sample ID:	QL16010-004	Client Sample ID:	F6R34
Injection Date:	22-Dec-2015 19:34:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-004		
Misc. Info:	92747 20X		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	19
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 09:52:30

Tentative Identified Compound Results

RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown						
4.919	15265718	63.519	1209.88	8				
		Unknown						
5.870	17440325	72.567	1382.23	8				
		Unknown Alkane						
6.218	16725745	13.006	247.74	23				
		Unknown						
6.410	20293911	15.781	300.59	23				
		Unknown						
6.490	16726960	13.007	247.76	23				
		Unknown						
6.624	13820271	10.747	204.71	23				
		Unknown Alkane						
6.714	17599316	13.686	260.68	23				
		Unknown						
6.789	29527060	22.961	437.36	23				
		Unknown						
6.933	17413805	13.542	257.93	23				
		Unknown Alkane						
7.014	15279261	11.882	226.32	23				
		Unknown						
7.147	17249851	13.414	255.50	23				
	90-12-0	Naphthalene, 1-methyl-						
7.190	16431478	12.778	243.38	23	93	19232	C11H10	142

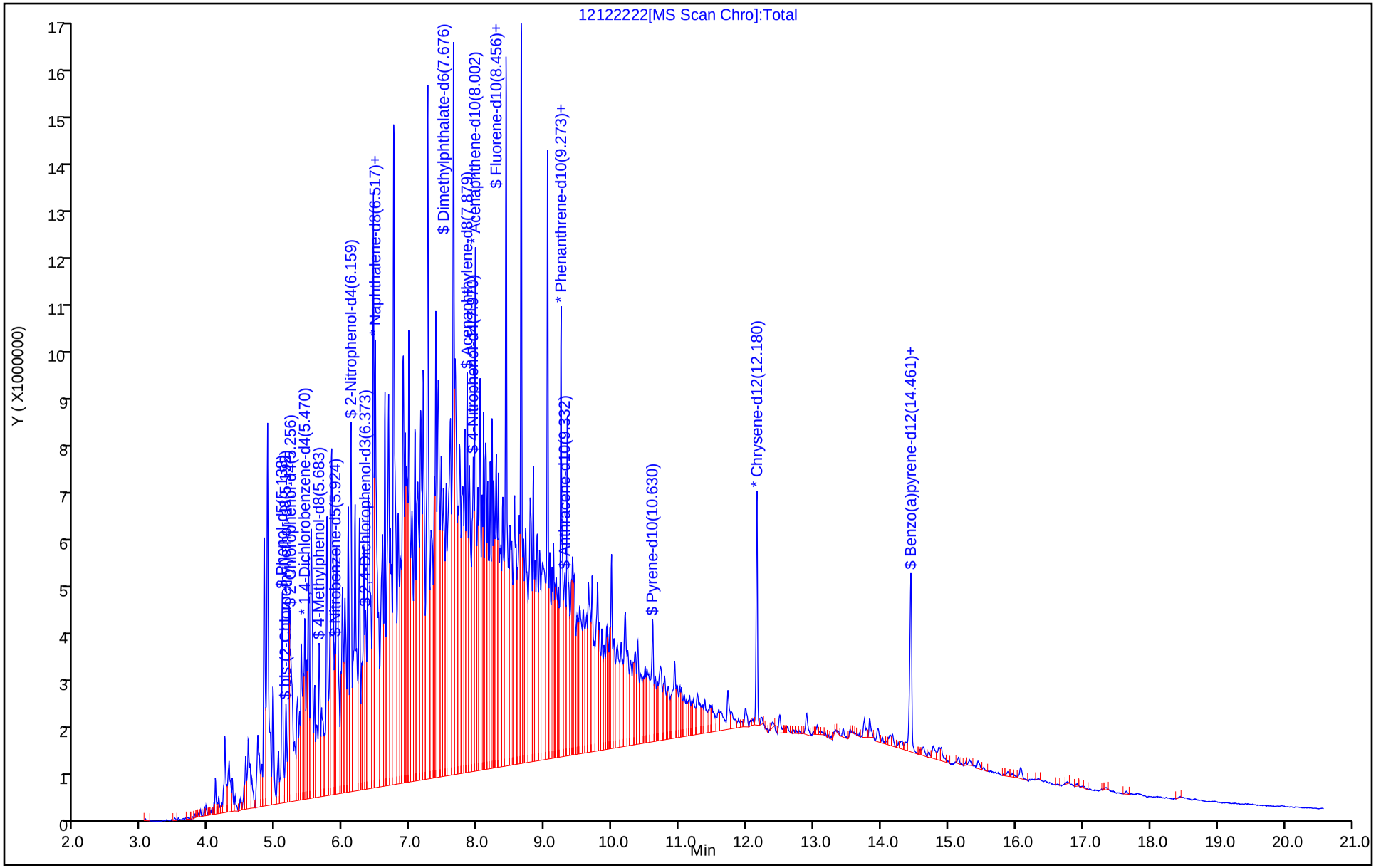
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown Alkane						
7.227	15539318	12.084	230.17	23				
		Unknown Alkane						
7.297	29560062	35.609	678.26	41				
		Unknown						
7.345	13504412	16.268	309.86	41				
		Unknown						
7.452	19349234	23.308	443.97	41				
575-43-9		Naphthalene, 1,6-dimethyl-						
7.633	24654183	29.699	565.69	41	98	28499	C12H12	156
		Unknown						
7.703	18563507	22.362	425.94	41				
573-98-8		Naphthalene, 1,2-dimethyl-						
7.815	14200790	17.106	325.84	41	86	28471	C12H12	156
		Unknown						
7.911	13367090	16.102	306.71	41				
66563-30-2		Bacchotricuneatin c						
8.071	13660407	16.456	313.44	41	95	178298	C20H22O5	342
		Unknown						
8.157	13080836	15.757	300.14	41				
		Unknown						
8.312	13786299	16.607	316.33	41				
		Unknown						
8.344	16681012	20.094	382.75	41				
		Unknown Alkane						
8.584	15893524	19.146	364.68	41				
		Unknown Alkane						
8.680	21331293	22.484	428.27	58				
529-05-5		Chamazulene						
8.814	16708779	17.612	335.46	58	86	48919	C14H16	184
		Unknown						
9.001	16111468	16.982	323.47	58				
		Unknown Alkane						
9.076	19178757	20.215	385.05	58				
13187-99-0		2-Bromo dodecane						
9.364	13637798	14.375	273.81	58	92	100330	C12H25Br	248

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.475	4806680	20.000
* 23 Naphthalene-d8	6.517	25719157	20.000
* 41 Acenaphthene-d10	8.002	16602800	20.000
* 58 Phenanthrene-d10	9.273	18974436	20.000

Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D				
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R34	Lab ID:	QL16010-004		
Sample Info:	12122215.b, QL16010-004				
Injection Vol.	1.00 1	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

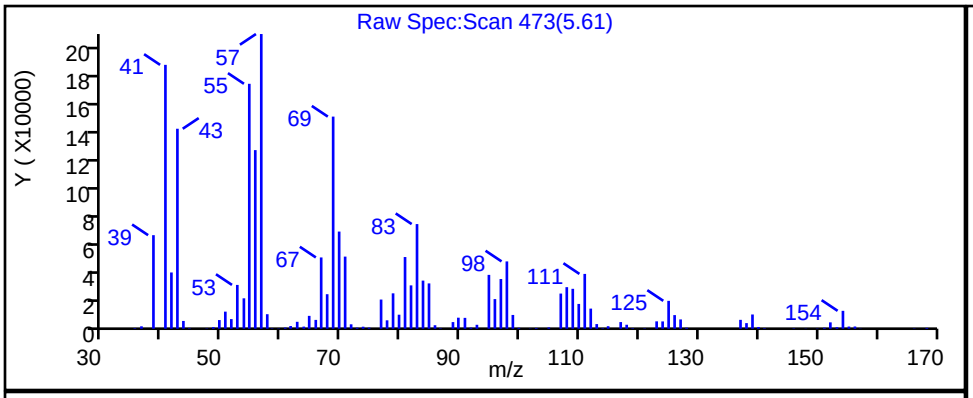


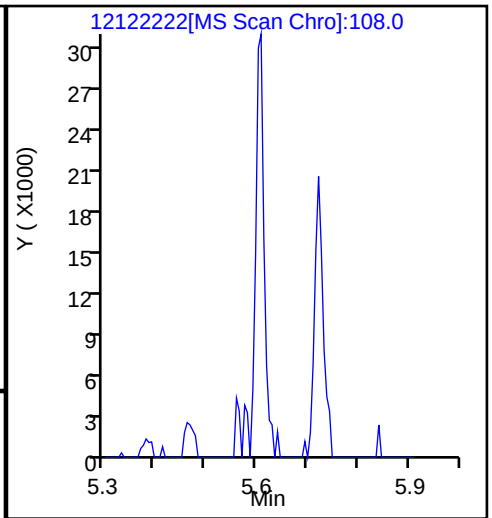
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

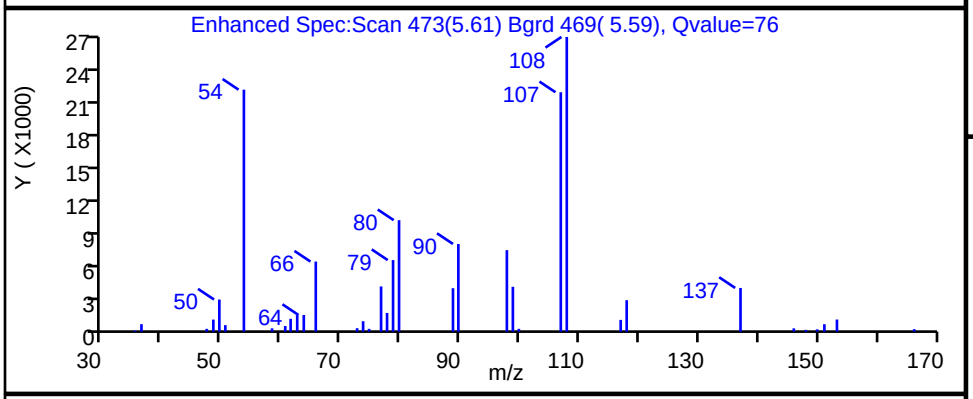
Shealy Environmental Services

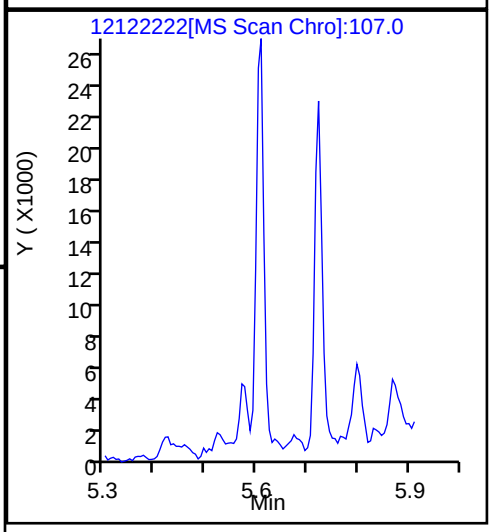
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

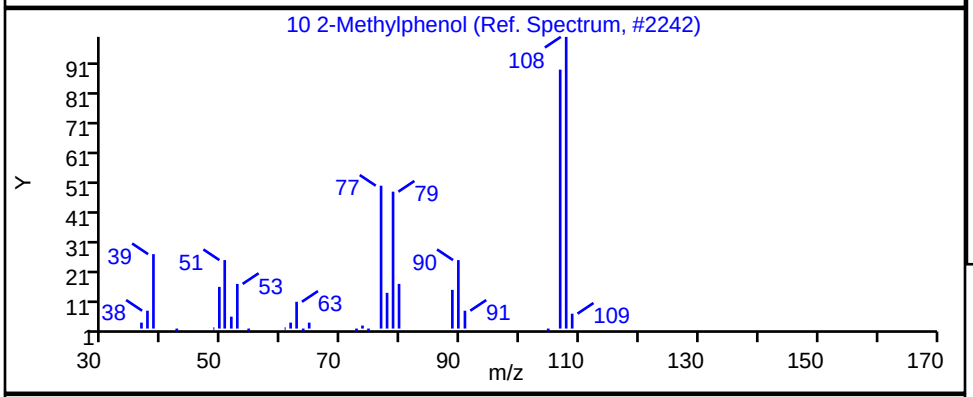
10 2-Methylphenol

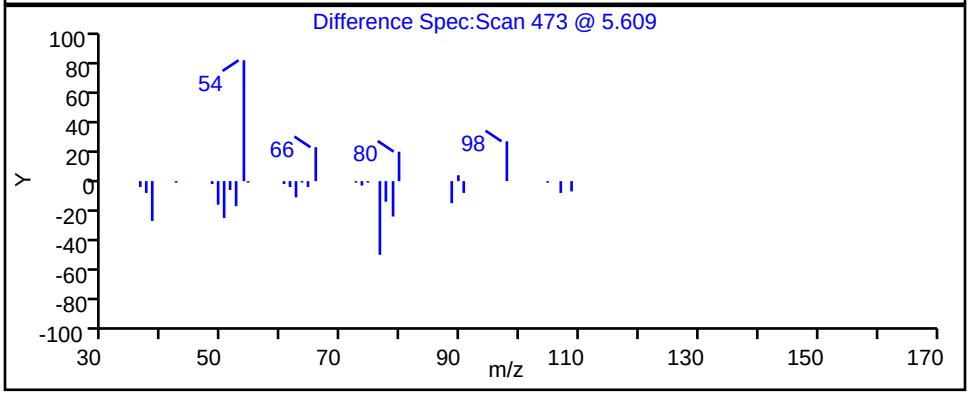












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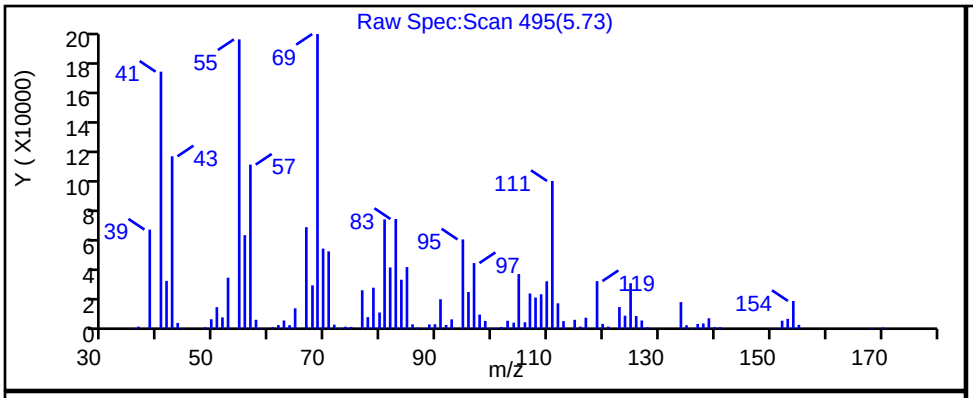
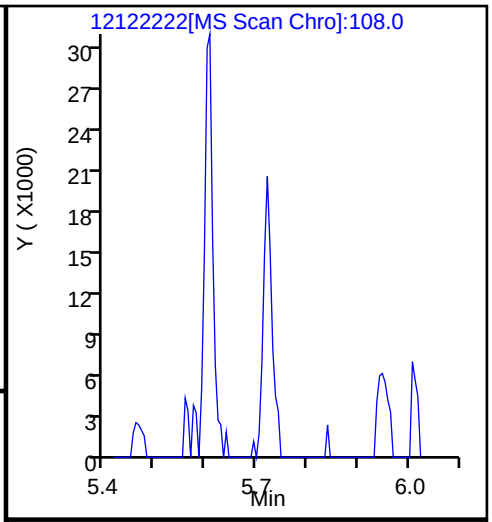
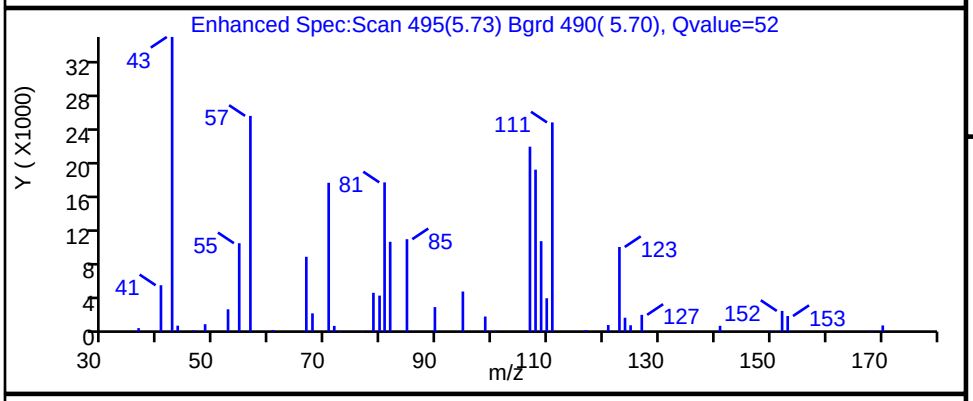
Shealy Environmental Services

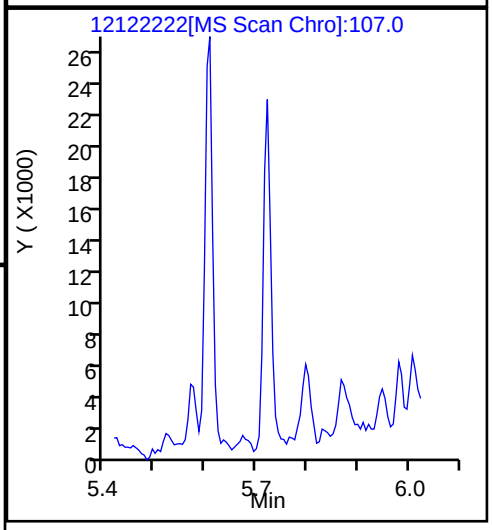
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

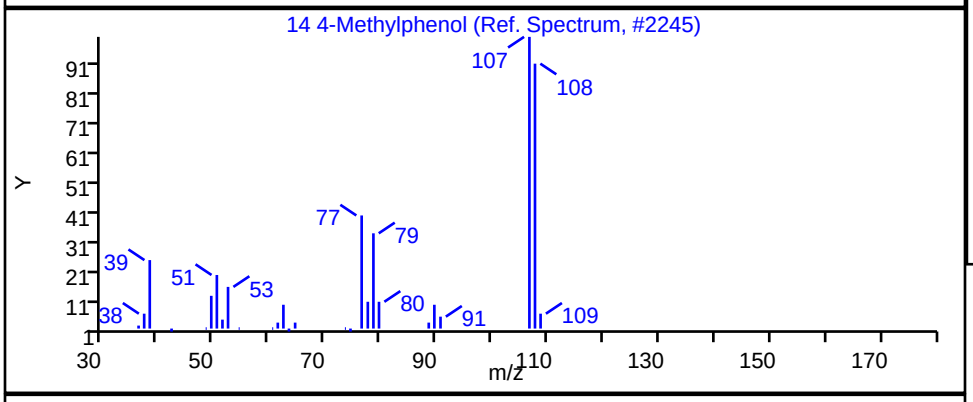
14 4-Methylphenol

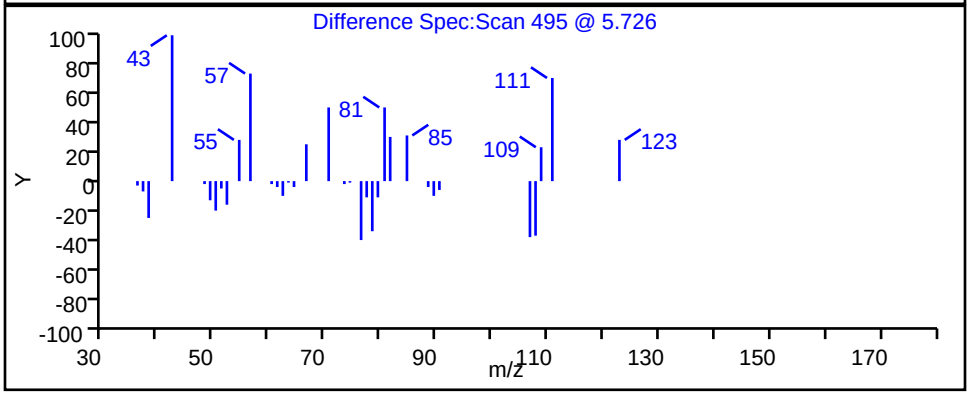










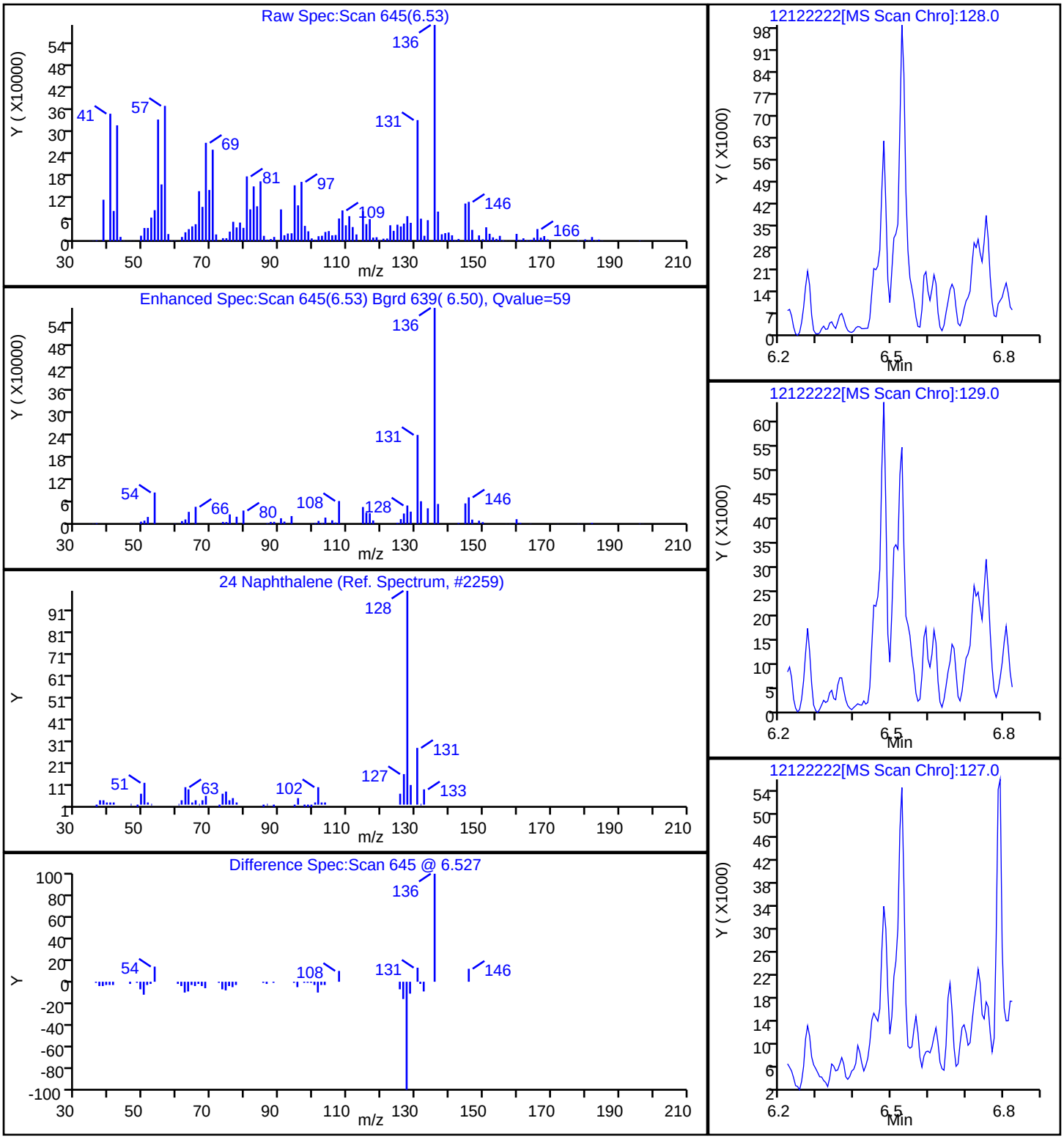


Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene

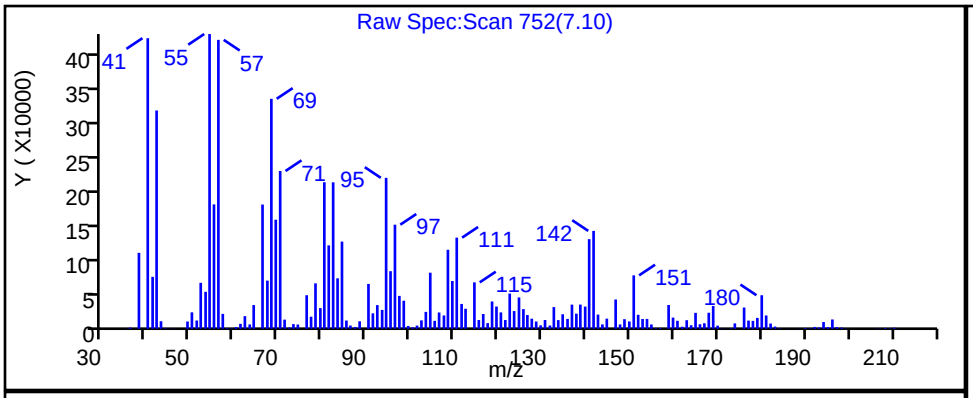


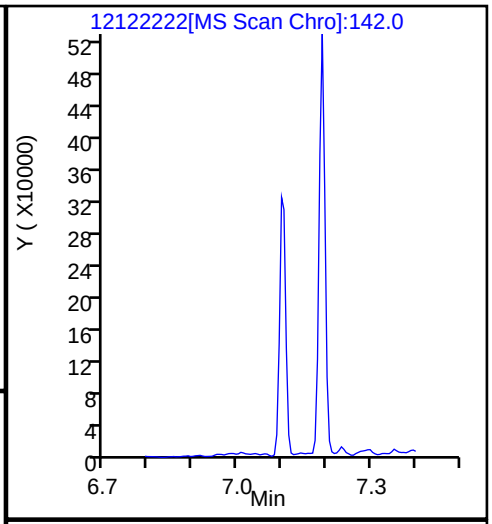
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

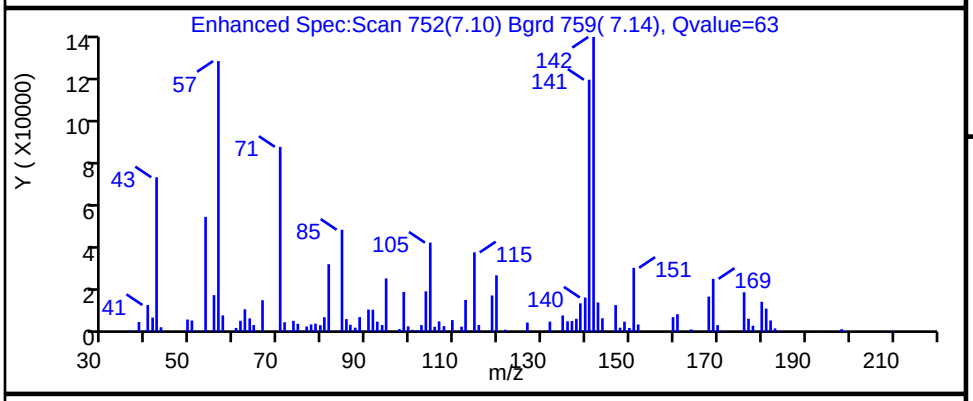
Shealy Environmental Services

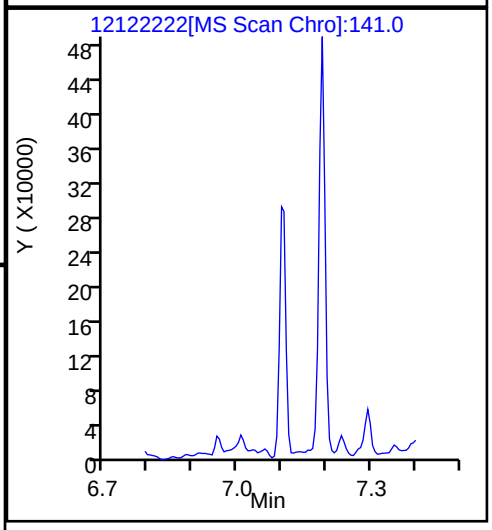
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

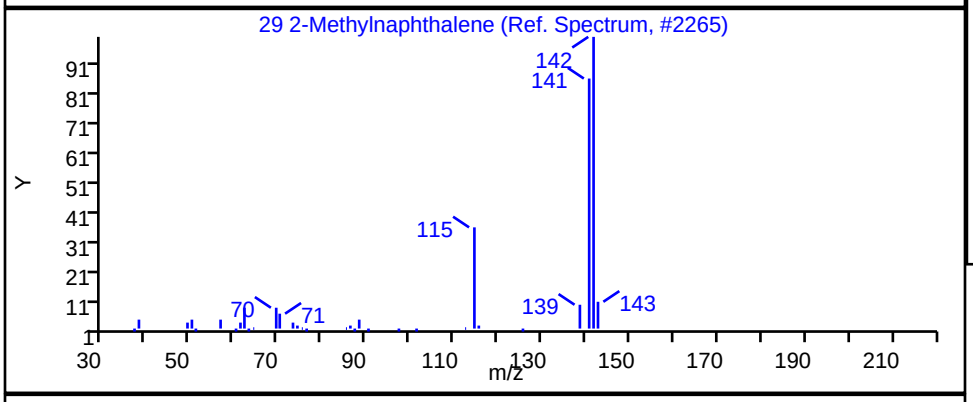
29 2-Methylnaphthalene

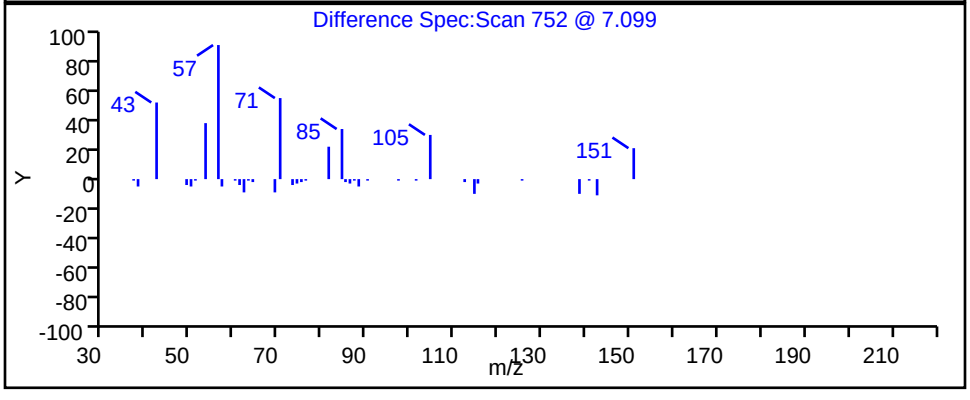










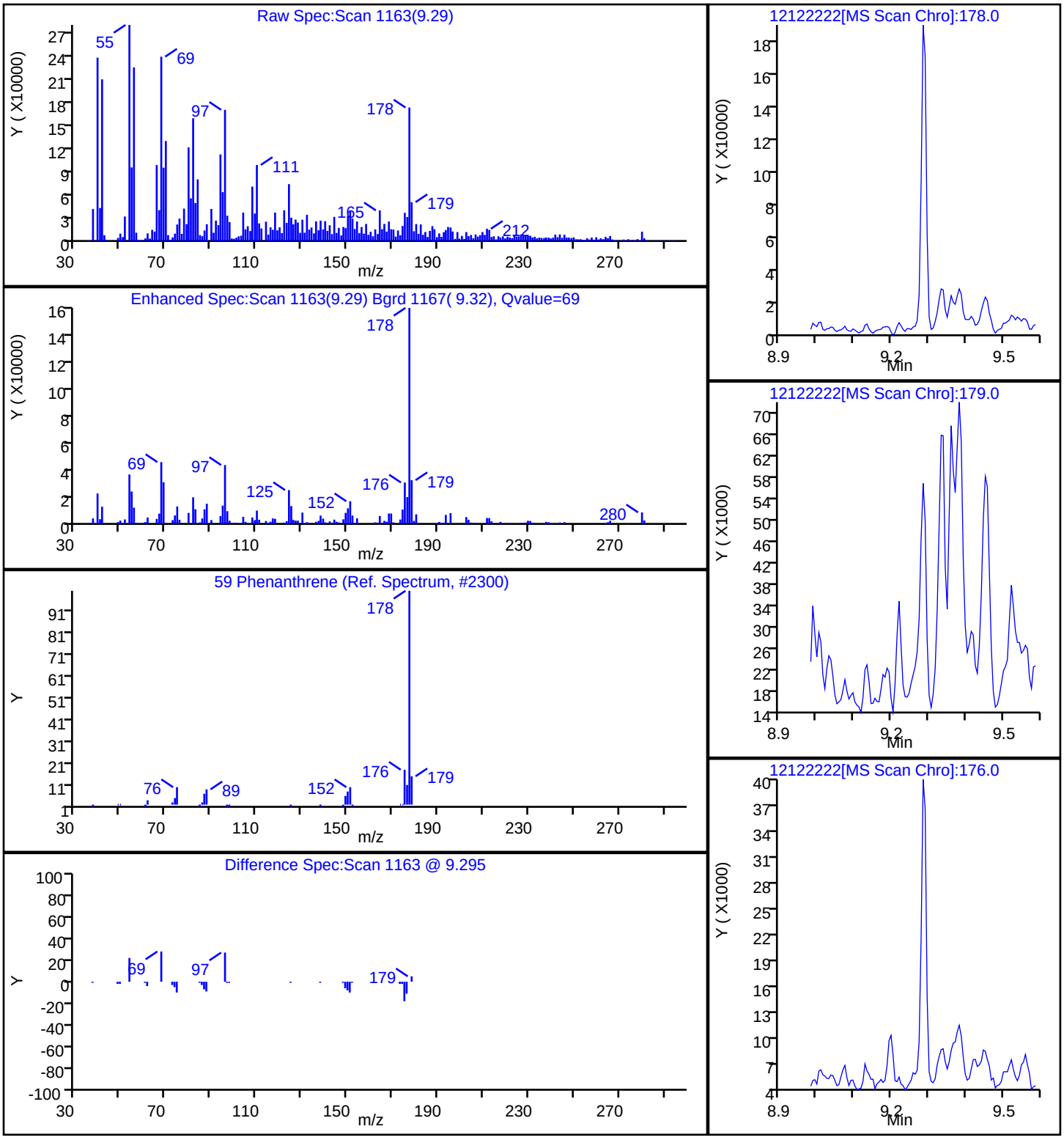


Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene



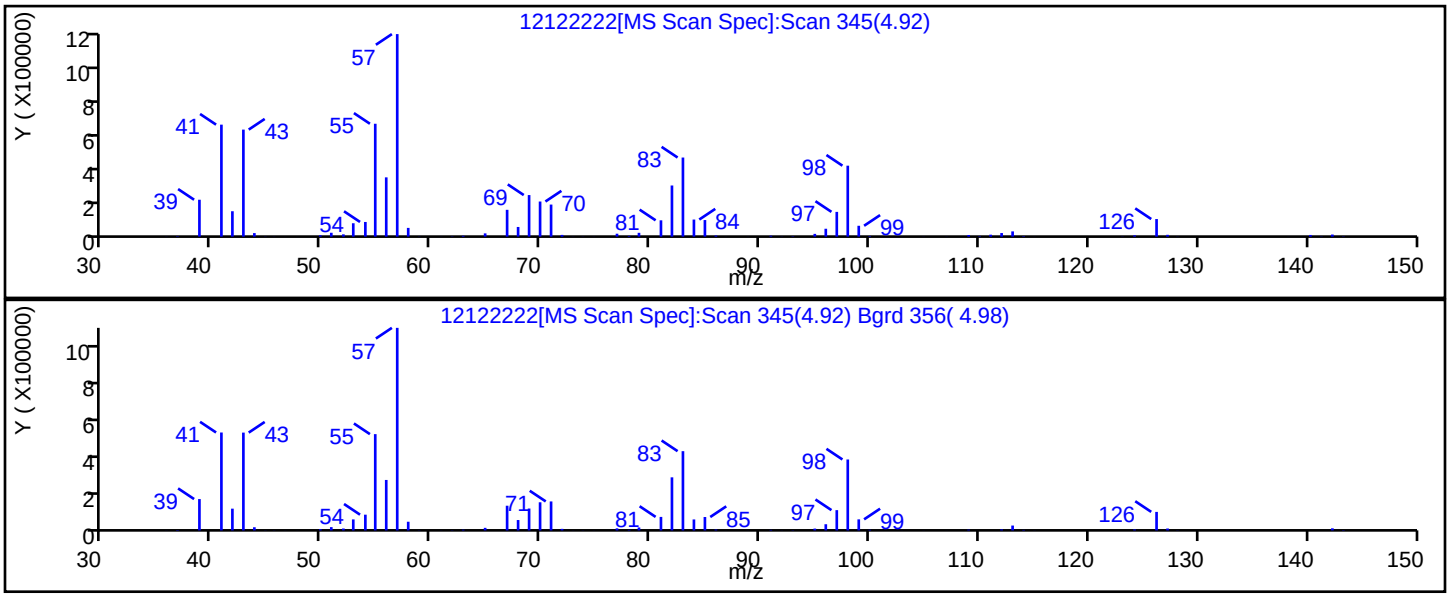
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.919

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



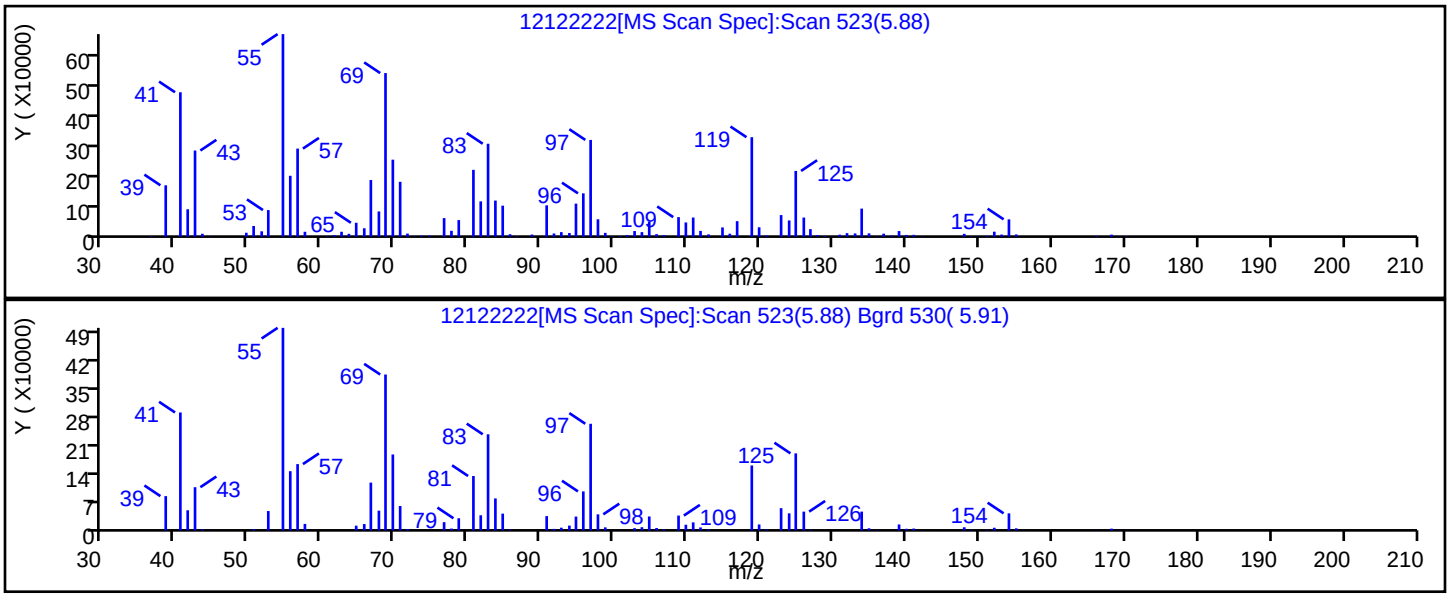
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.870

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



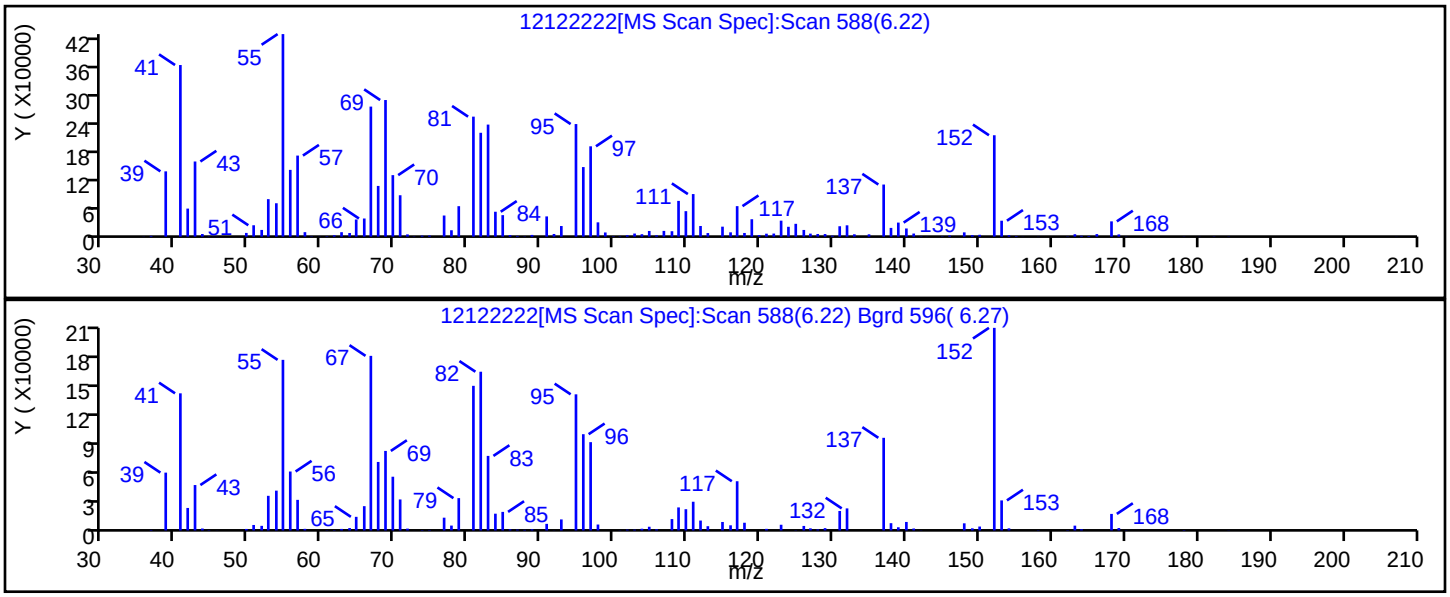
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.218

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



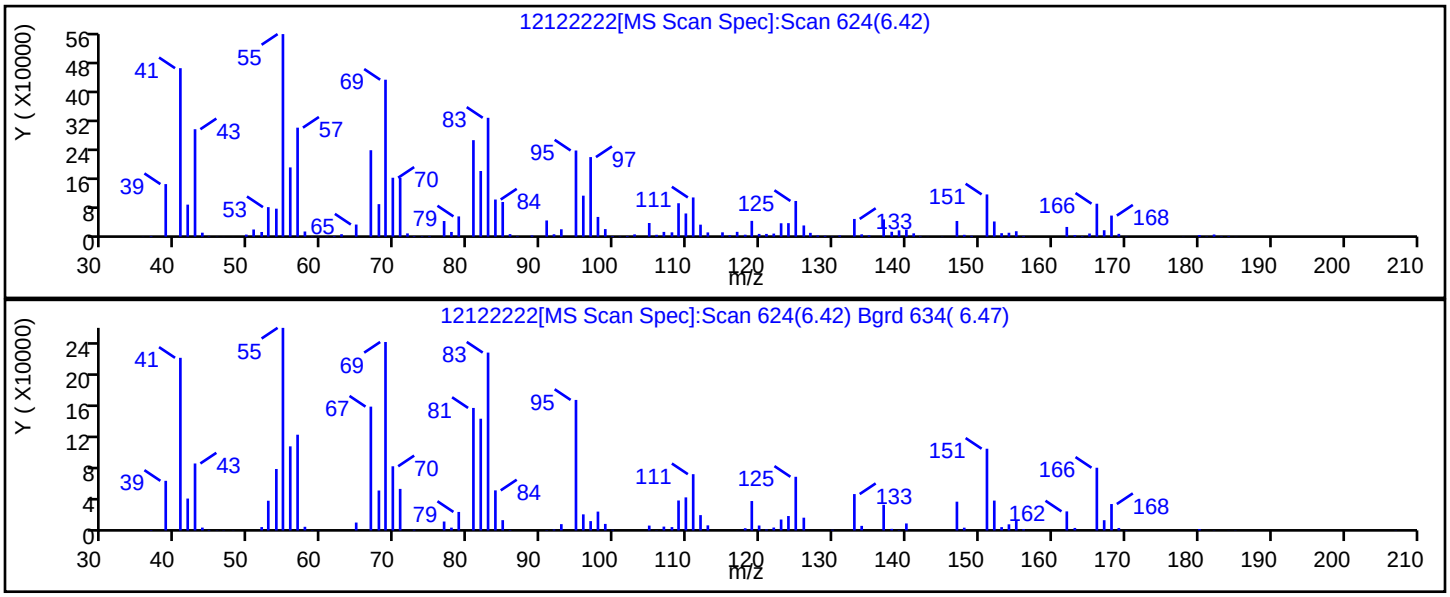
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.410

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.490

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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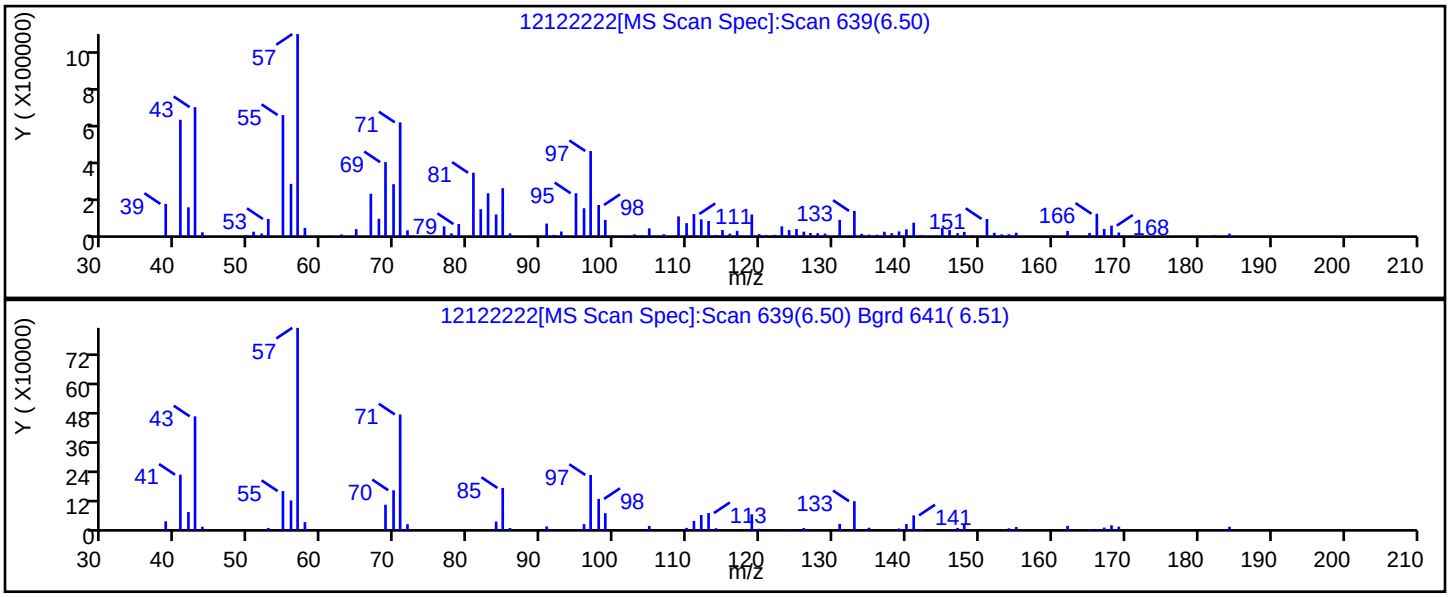


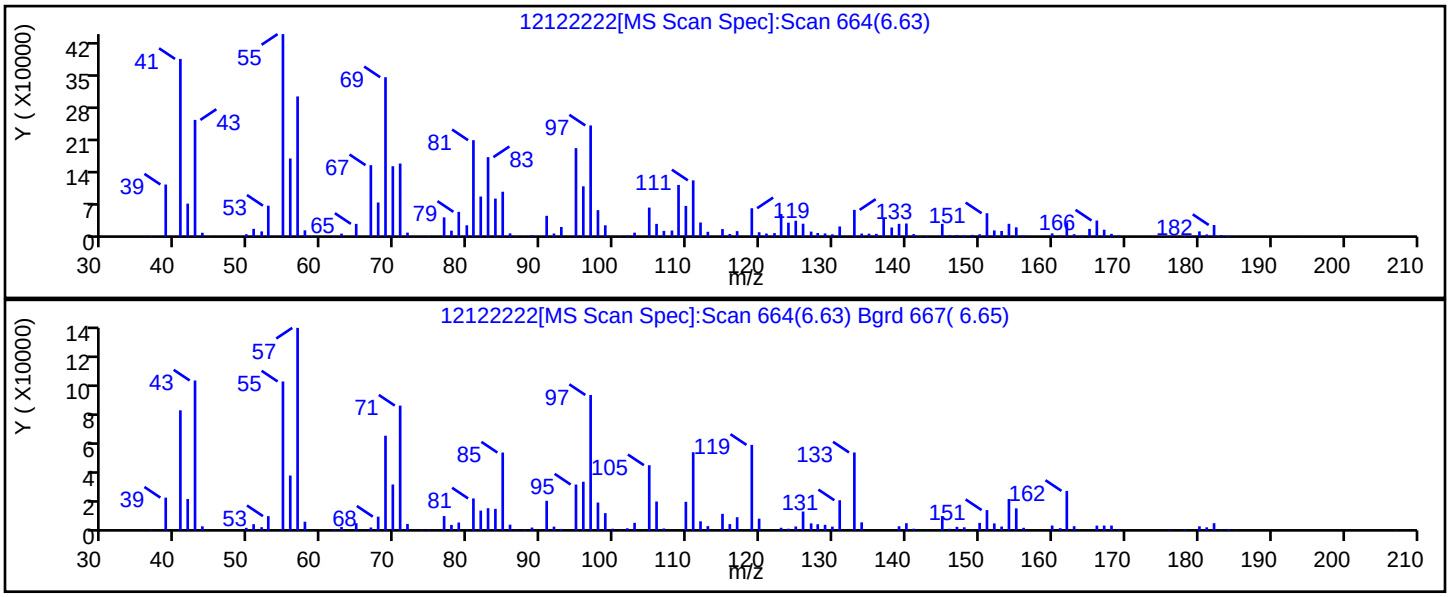
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.624

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



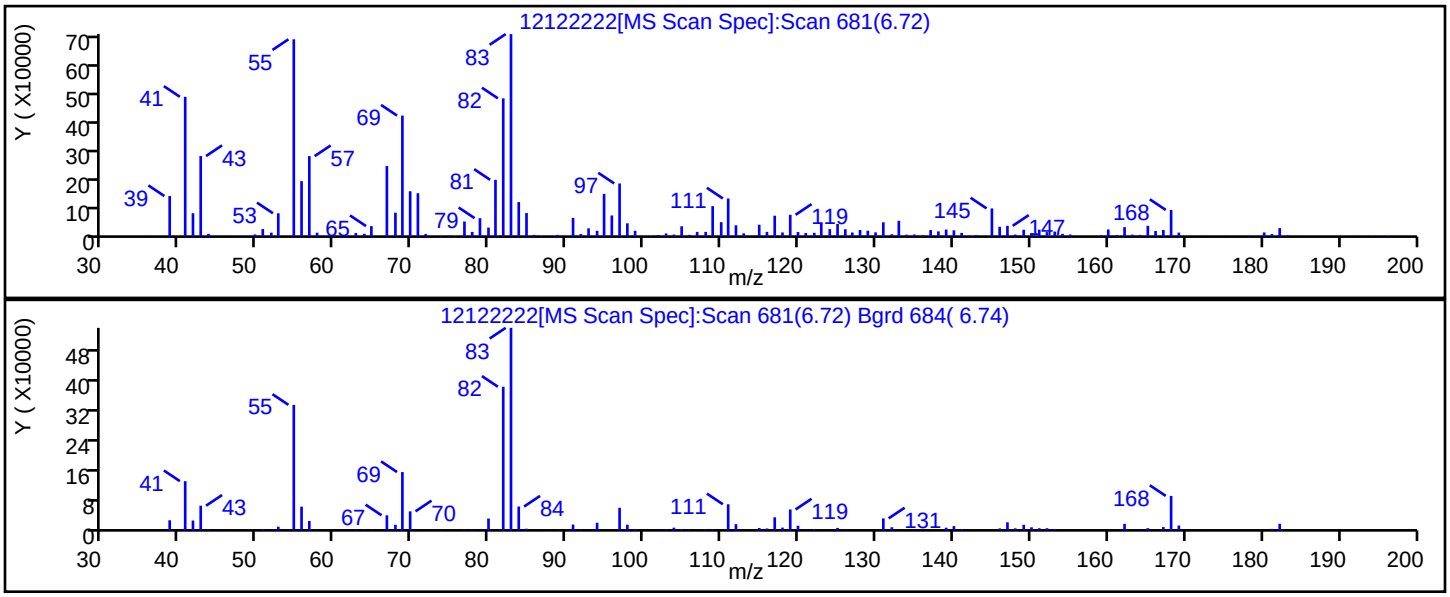
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.714

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



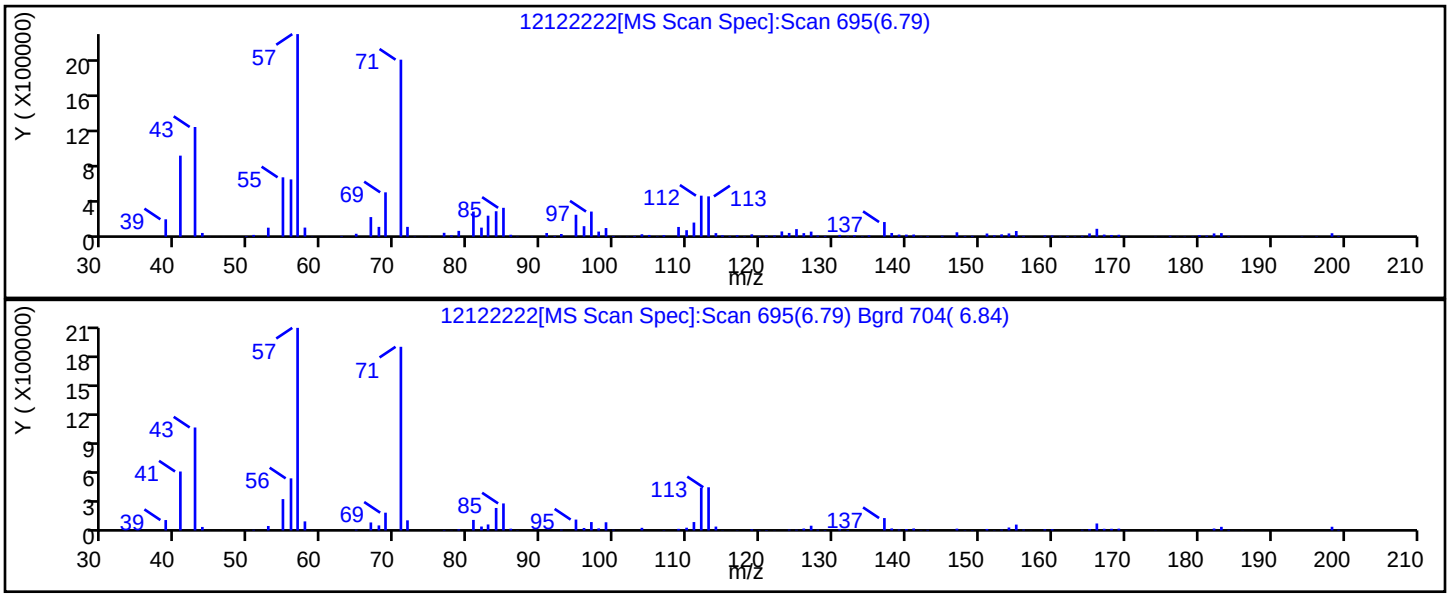
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.789

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



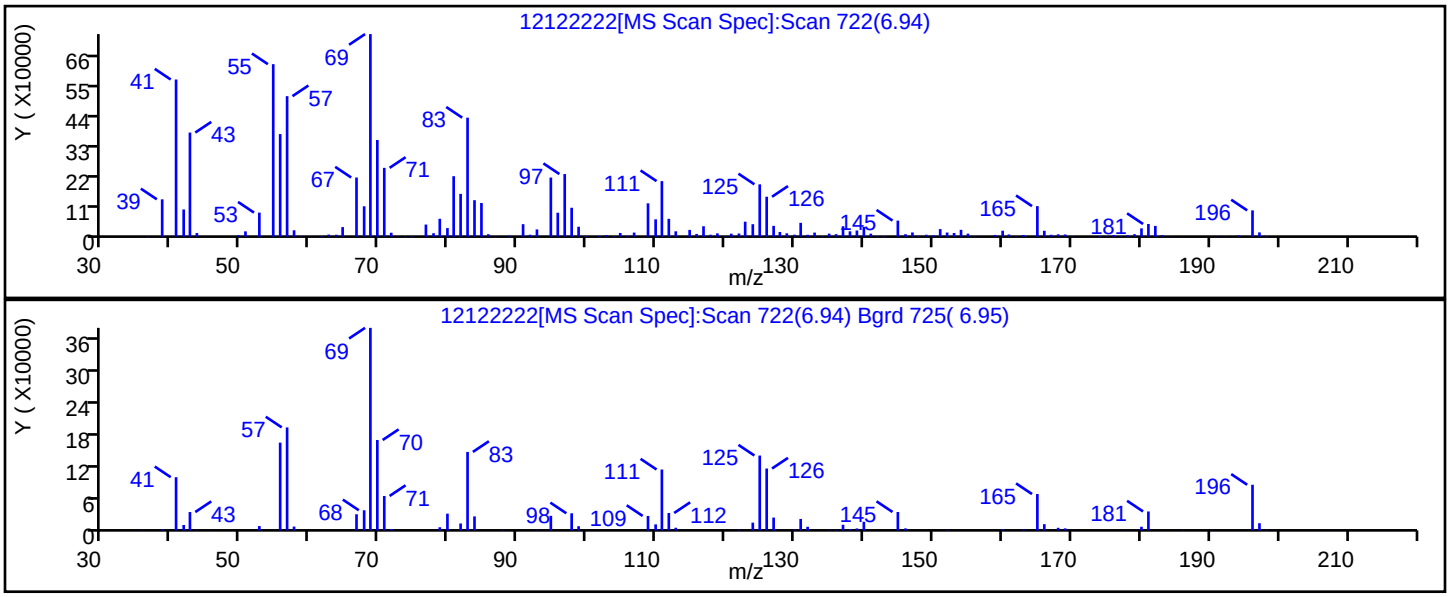
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.933

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



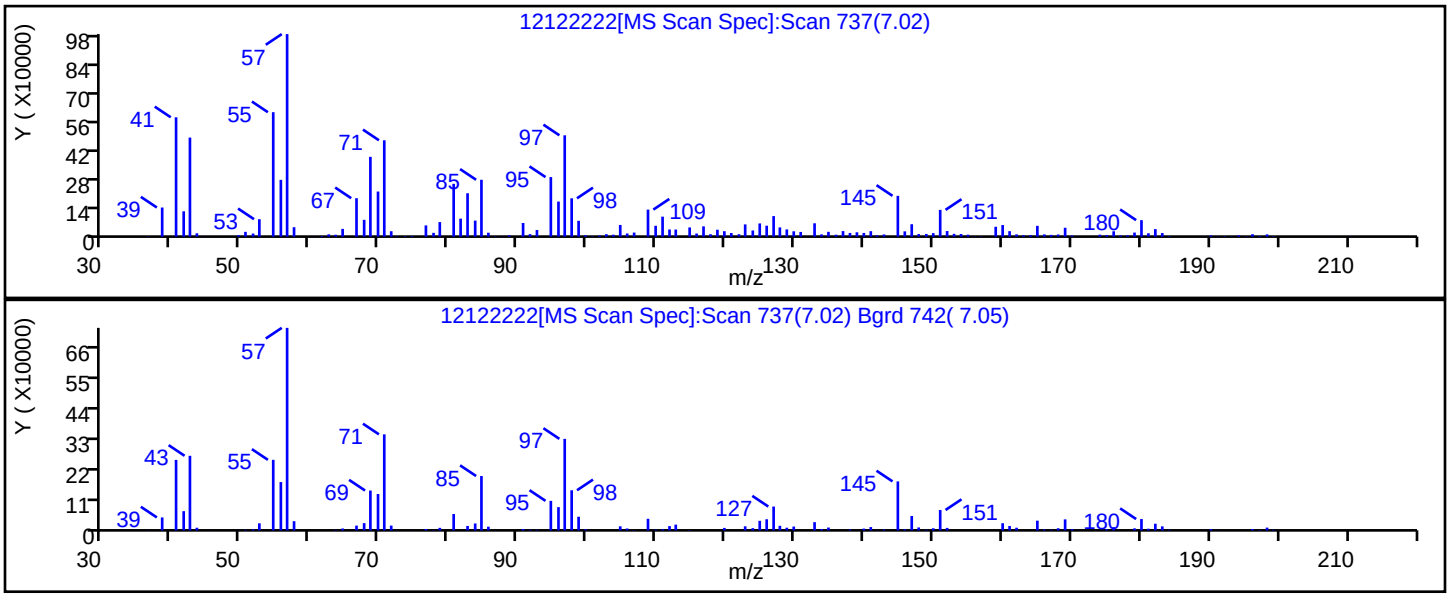
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.014

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



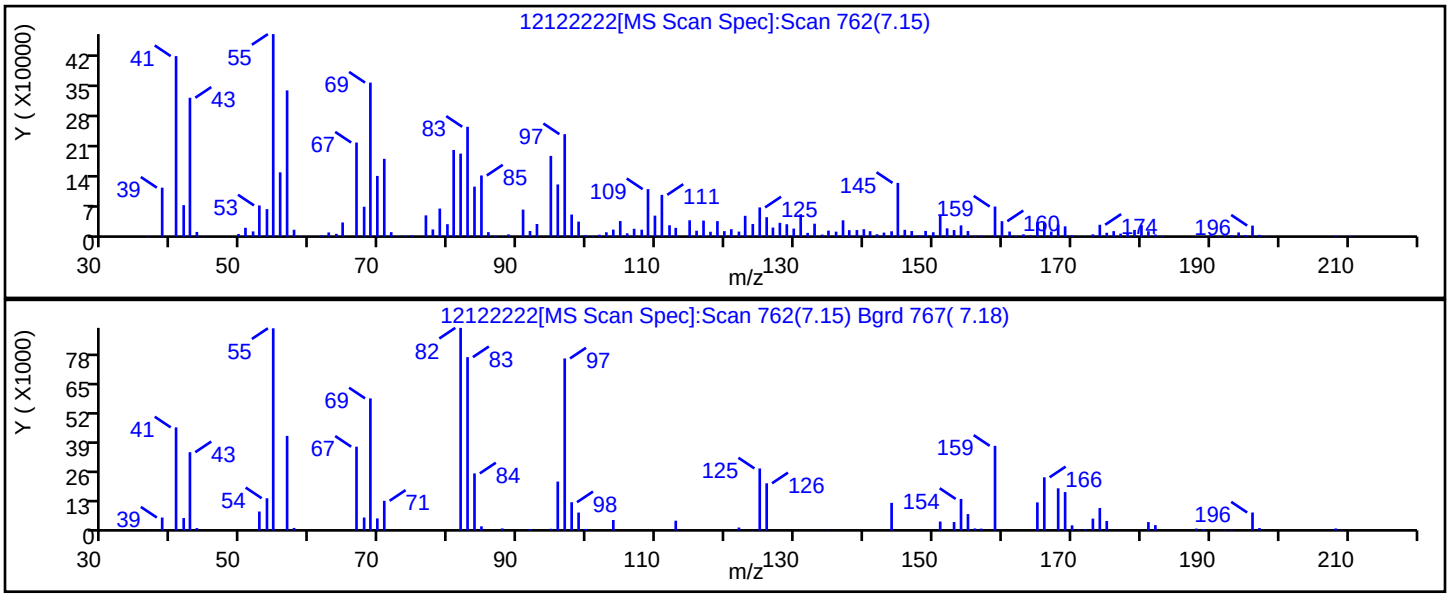
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.147

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



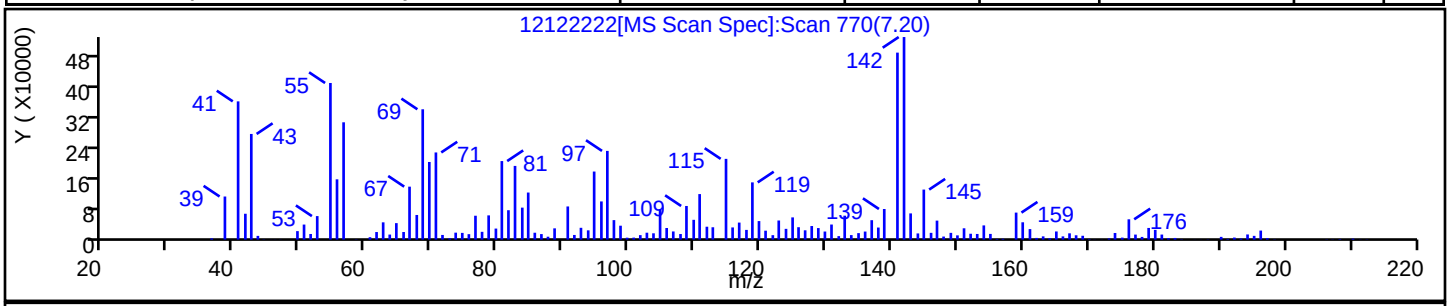
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

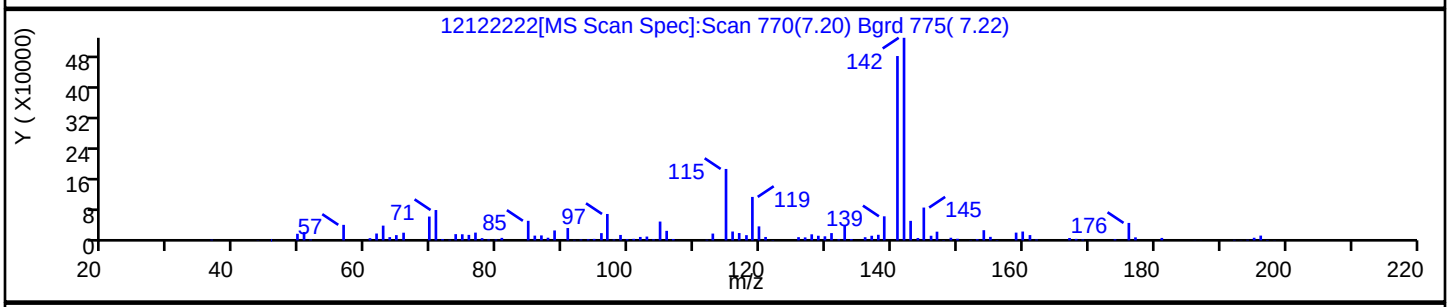
Shealy Environmental Services

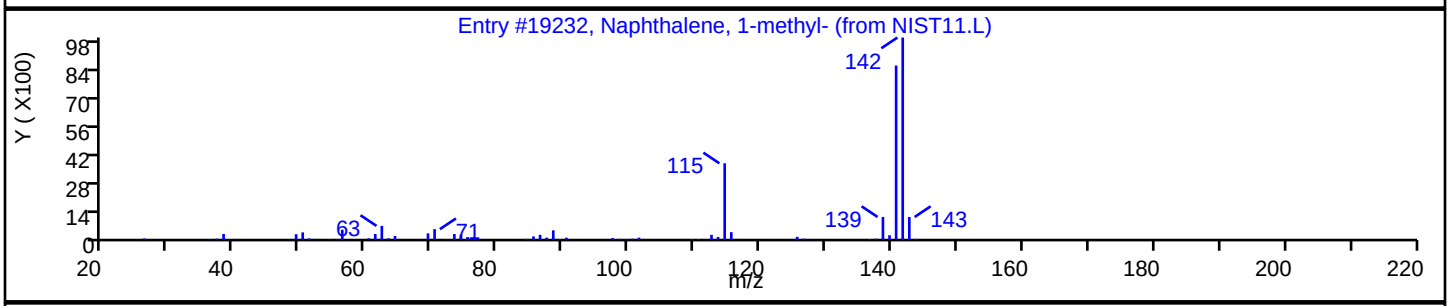
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

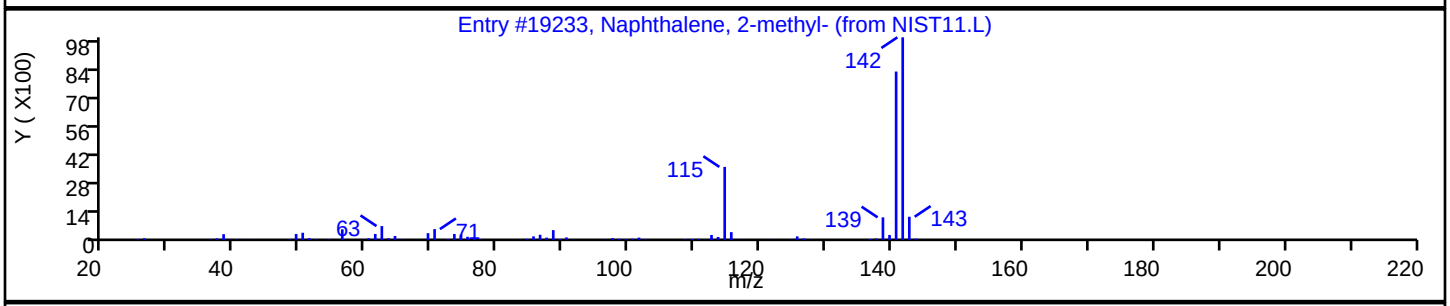
TIC @ 7.190

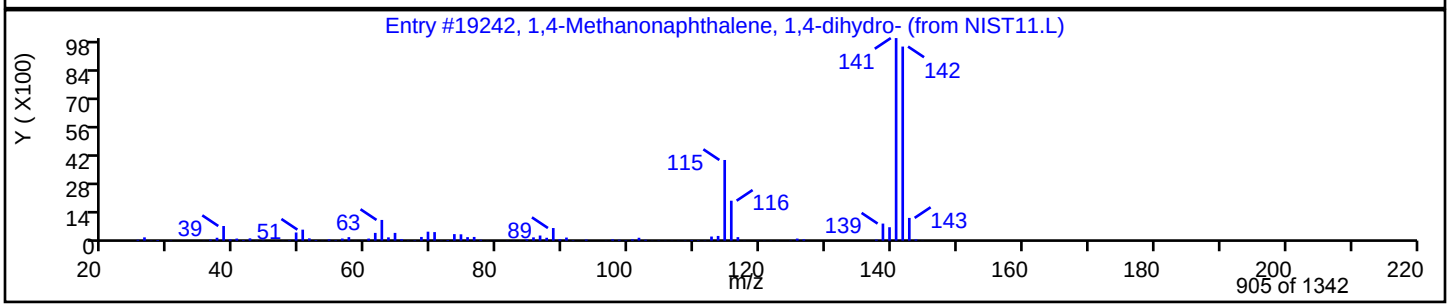
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1-methyl-	90-12-0	NIST11	19232	C11H10	142	93
Naphthalene, 2-methyl-	91-57-6	NIST11	19233	C11H10	142	92
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NIST11	19242	C11H10	142	86











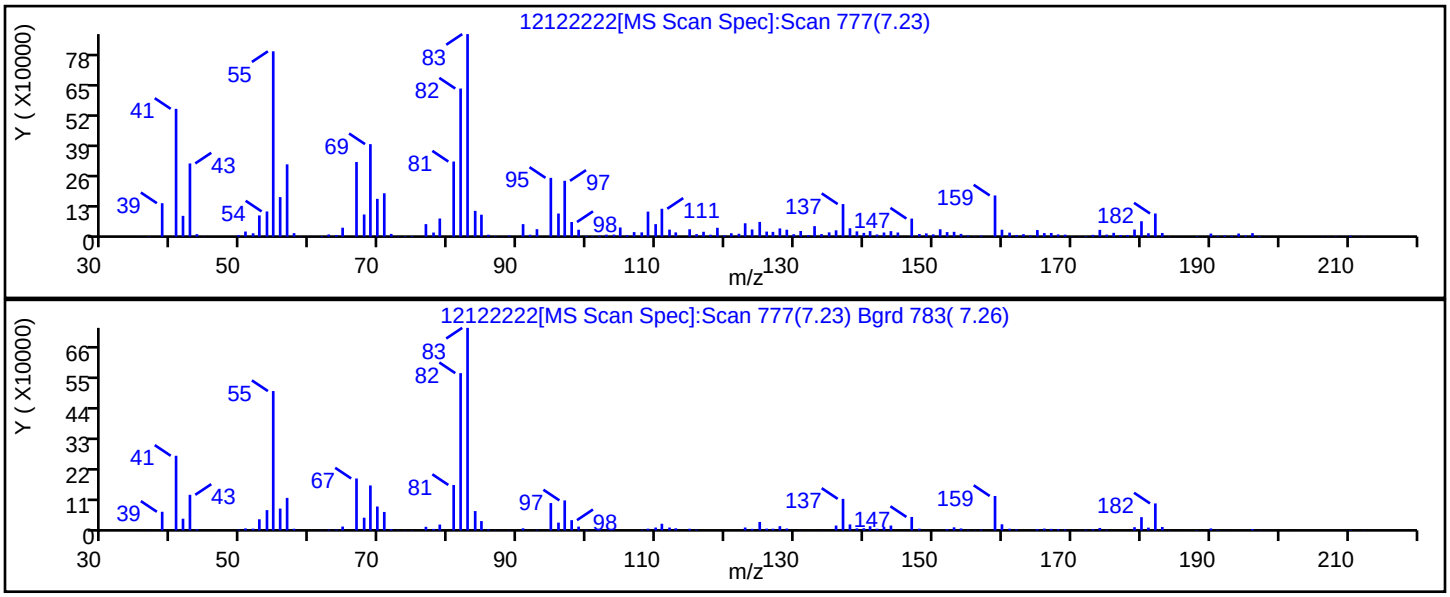
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.227

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



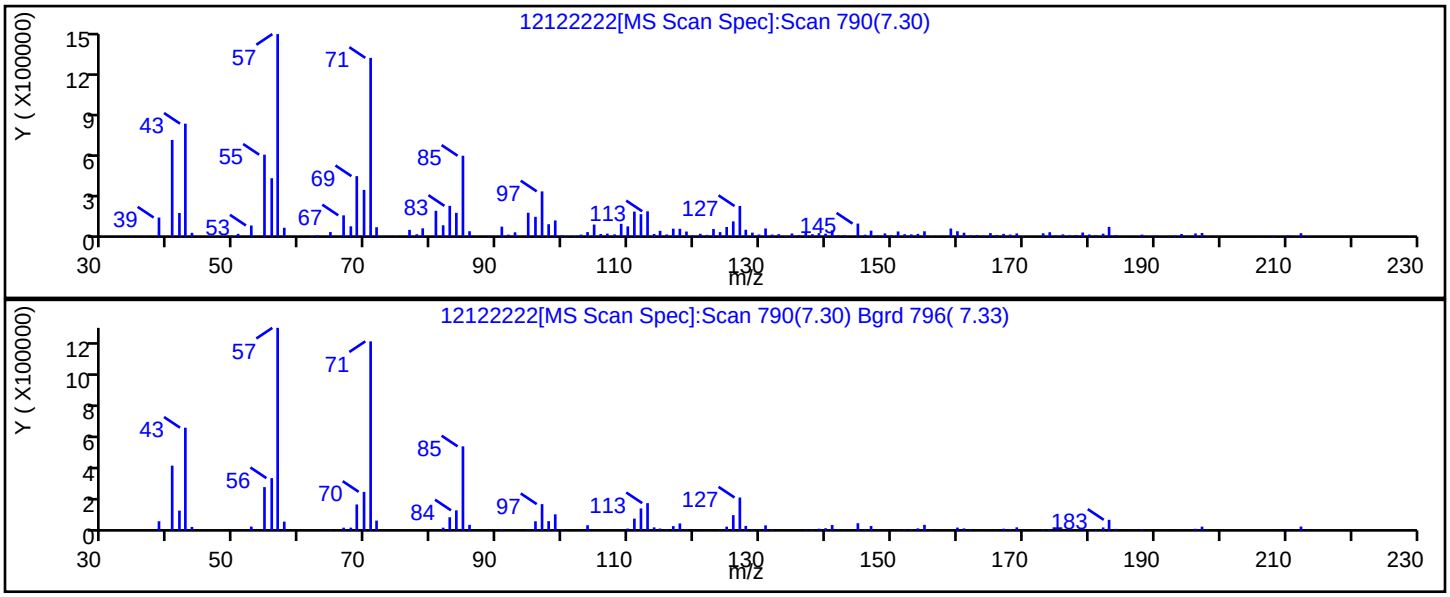
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.297

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



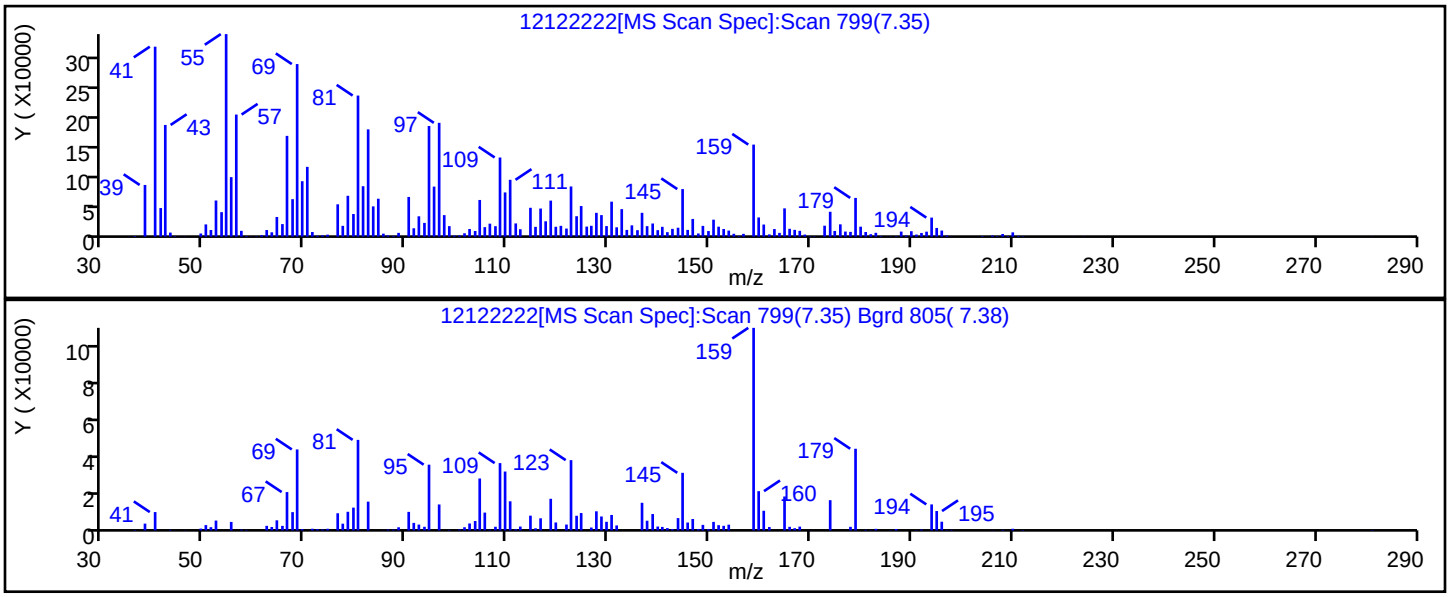
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.345

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



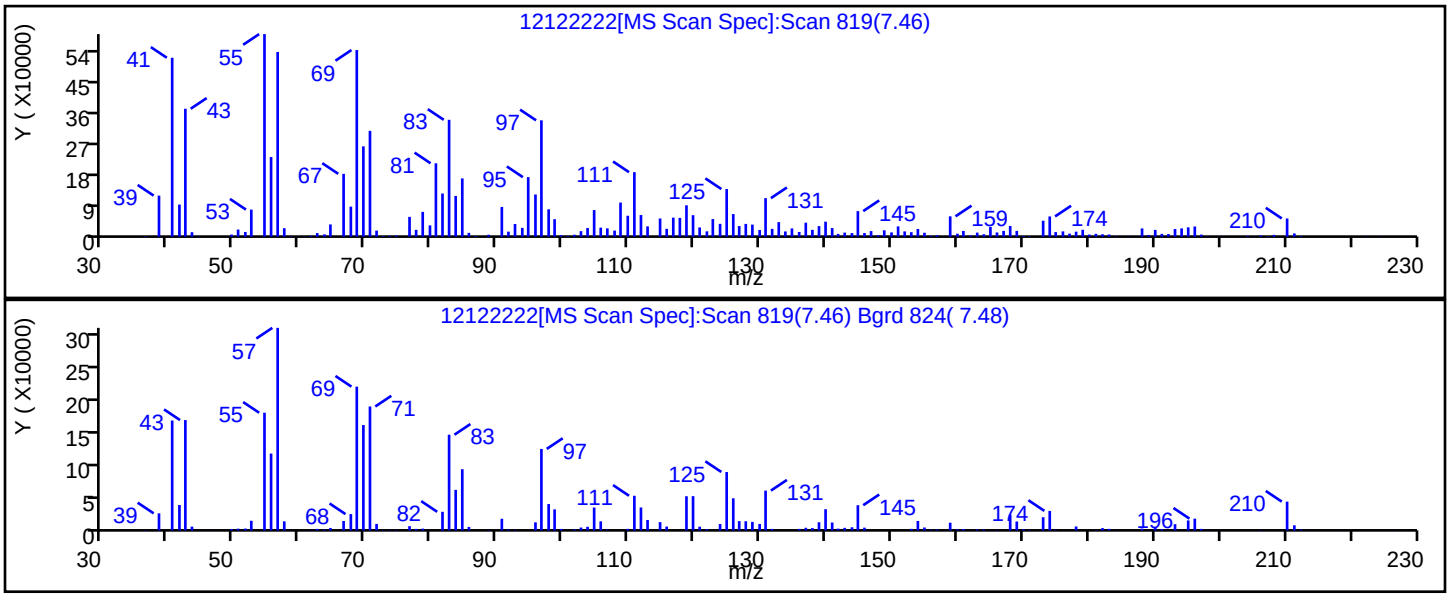
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.452

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



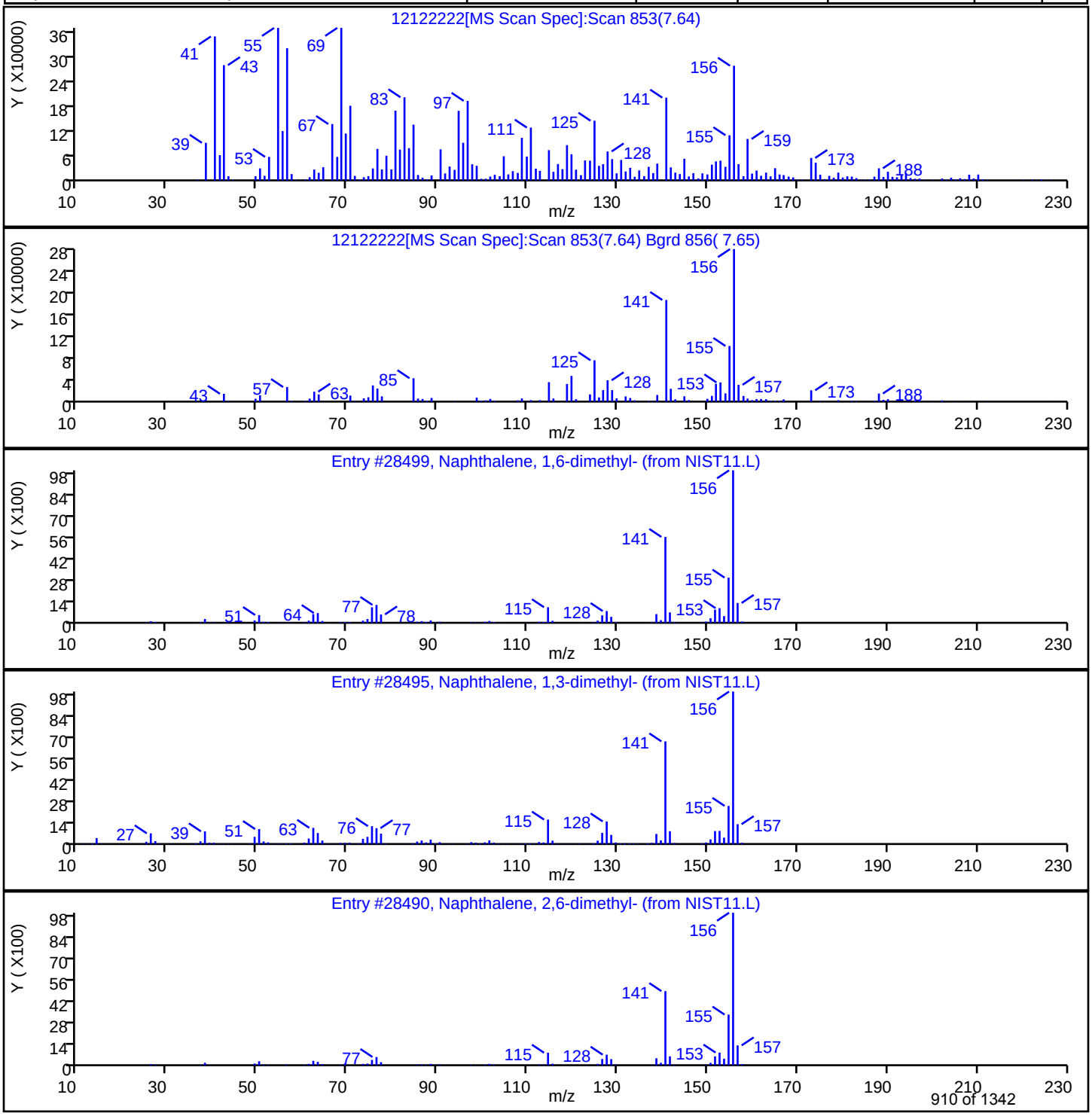
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.633

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,6-dimethyl-	575-43-9	NIST11	28499	C12H12	156	98
Naphthalene, 1,3-dimethyl-	575-41-7	NIST11	28495	C12H12	156	96
Naphthalene, 2,6-dimethyl-	581-42-0	NIST11	28490	C12H12	156	95



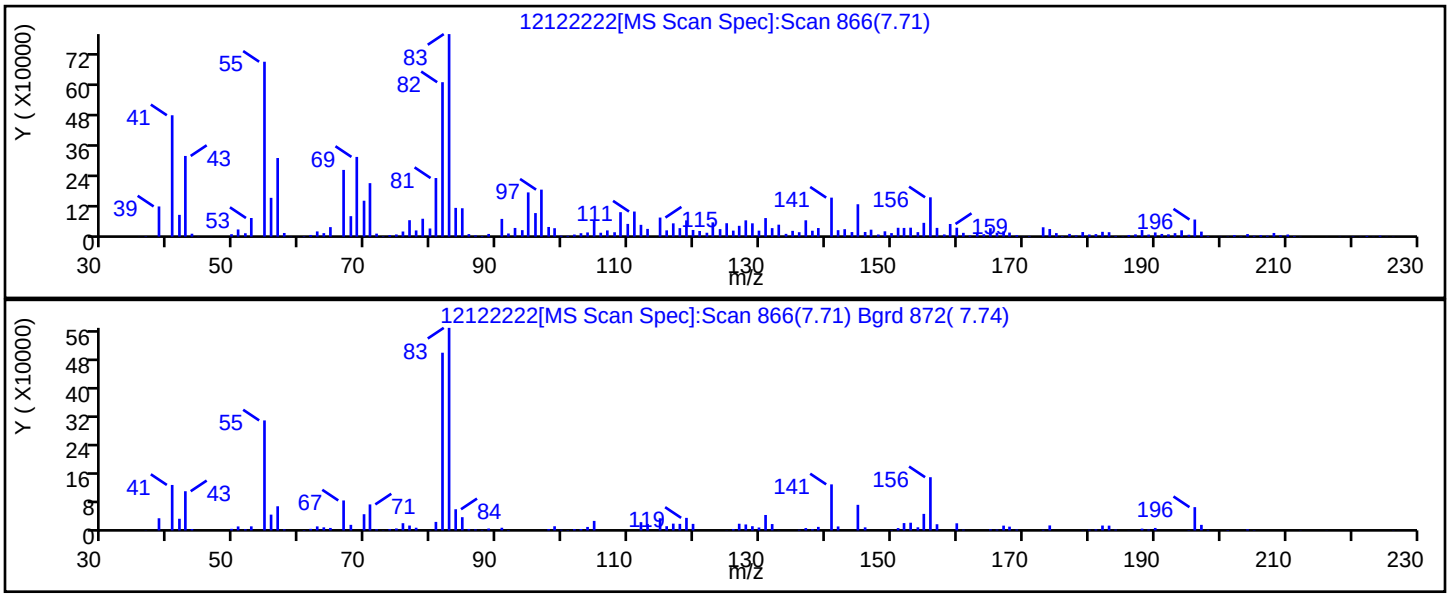
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.703

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



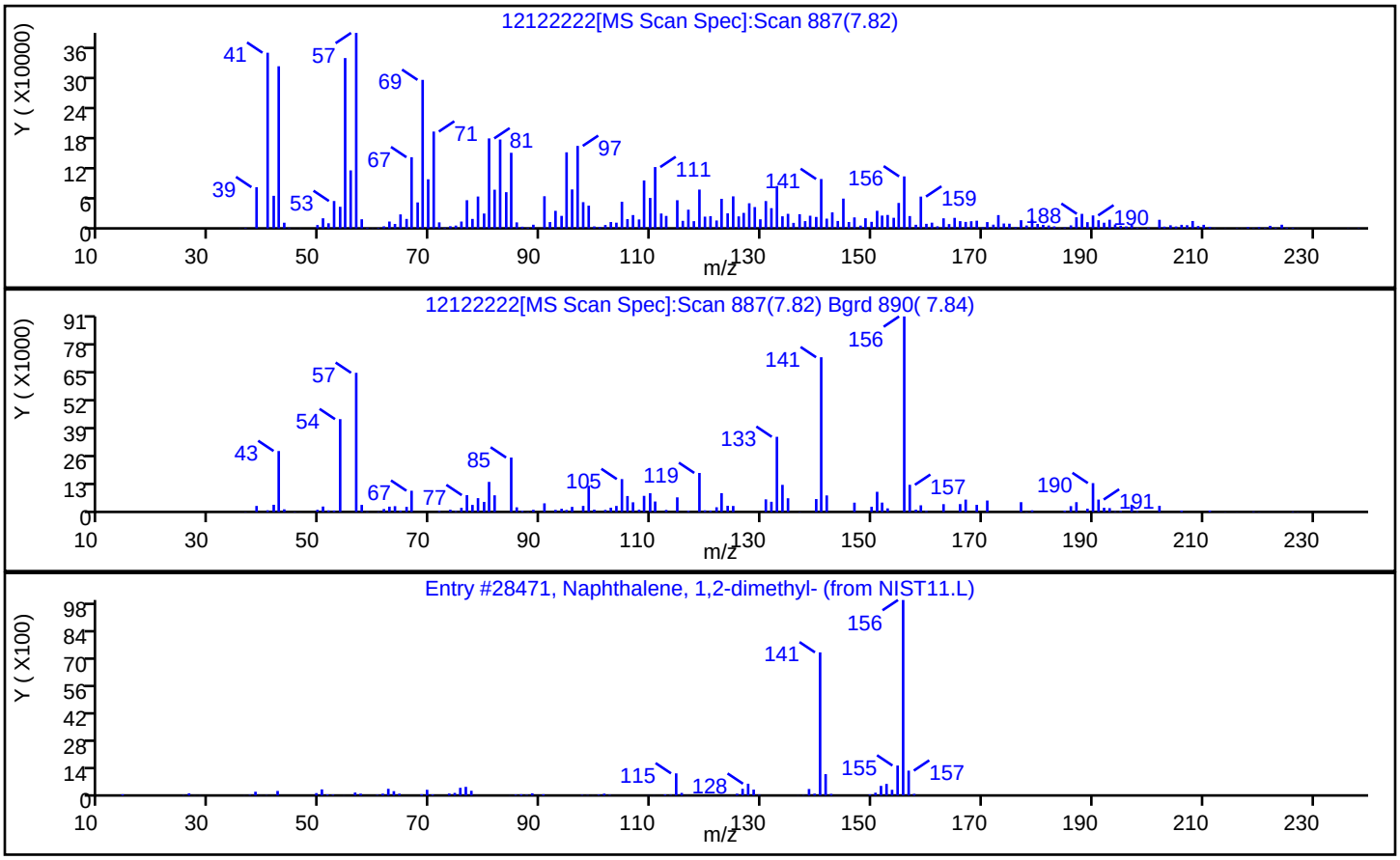
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.815

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Naphthalene, 1,2-dimethyl-	573-98-8	NIST11	28471	C12H12	156	86



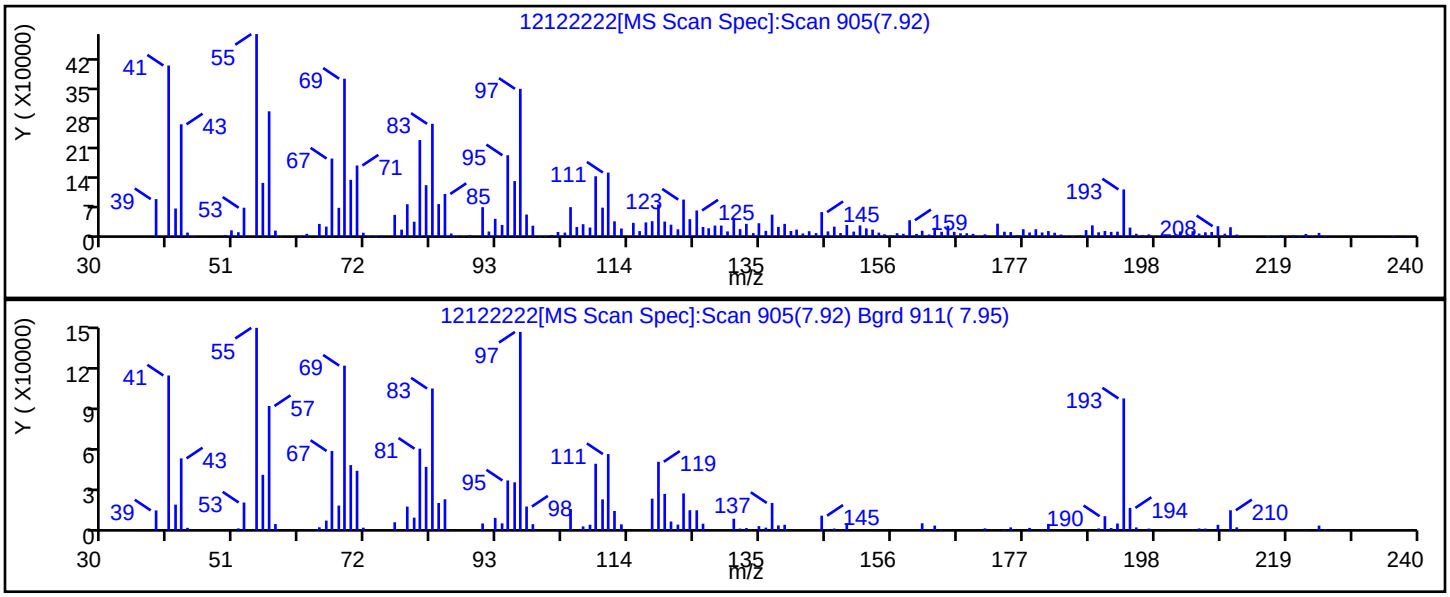
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.911

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.071

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
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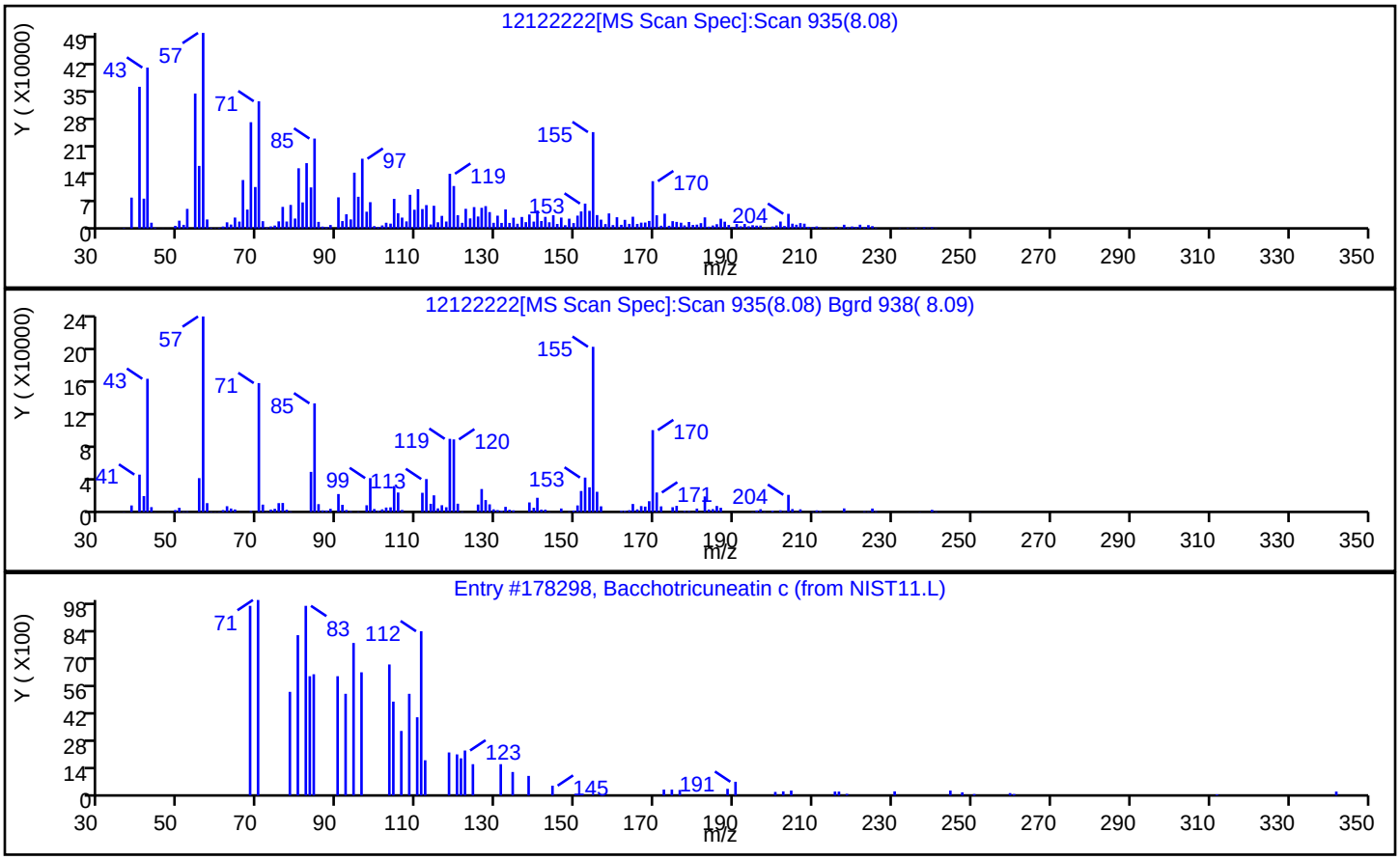


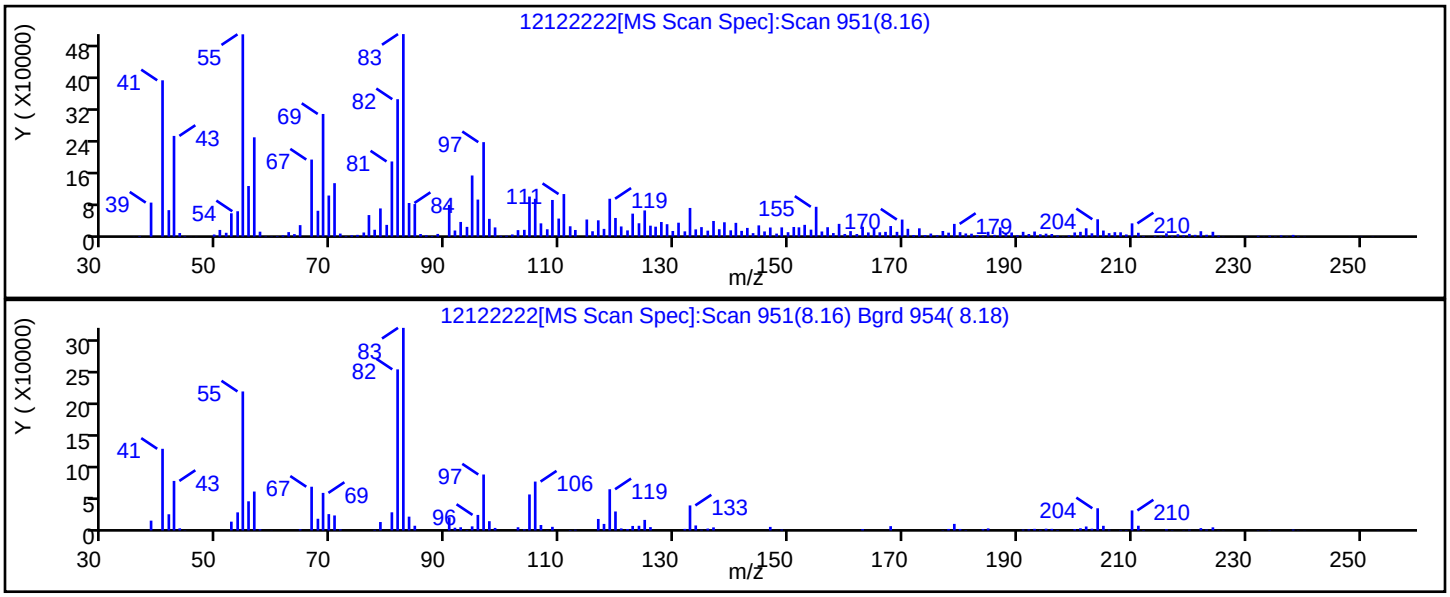
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.157

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



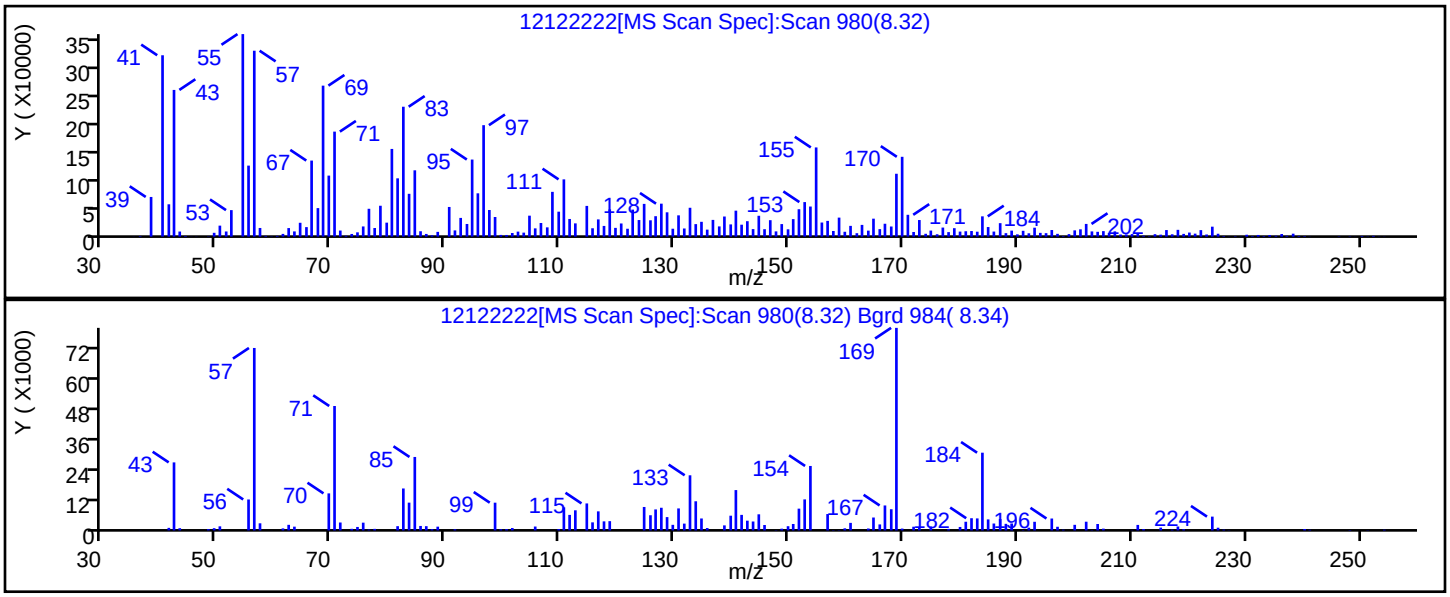
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.312

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



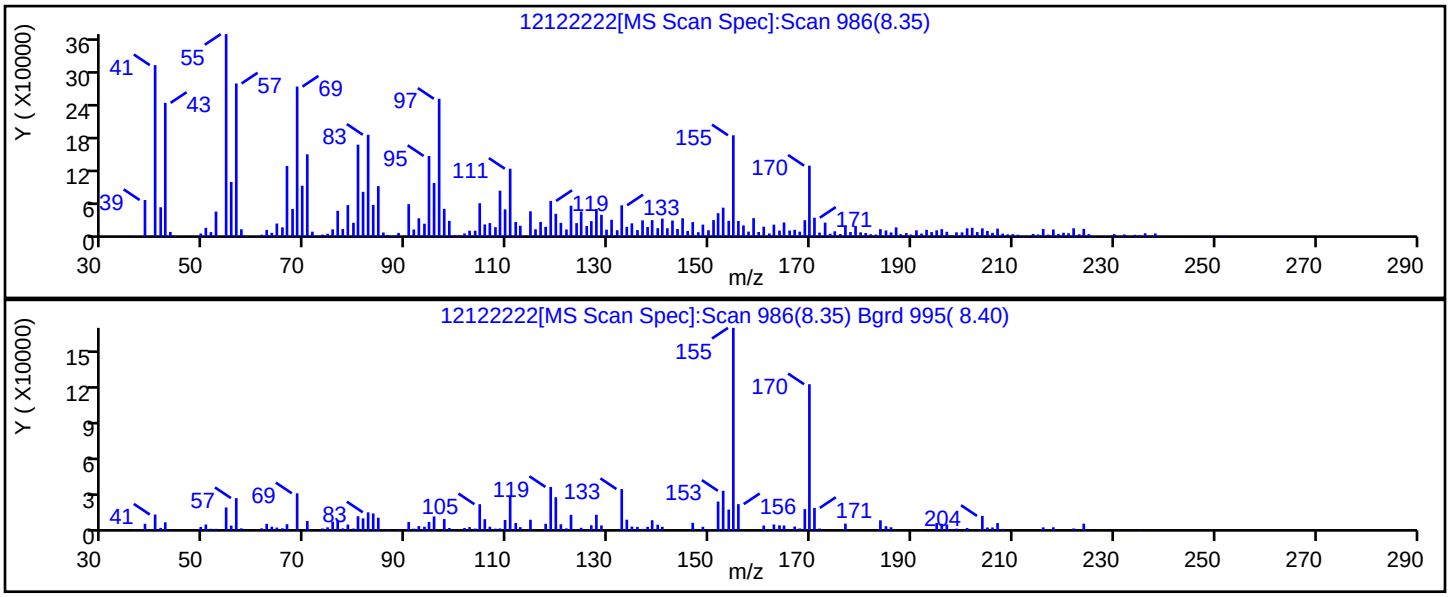
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.344

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



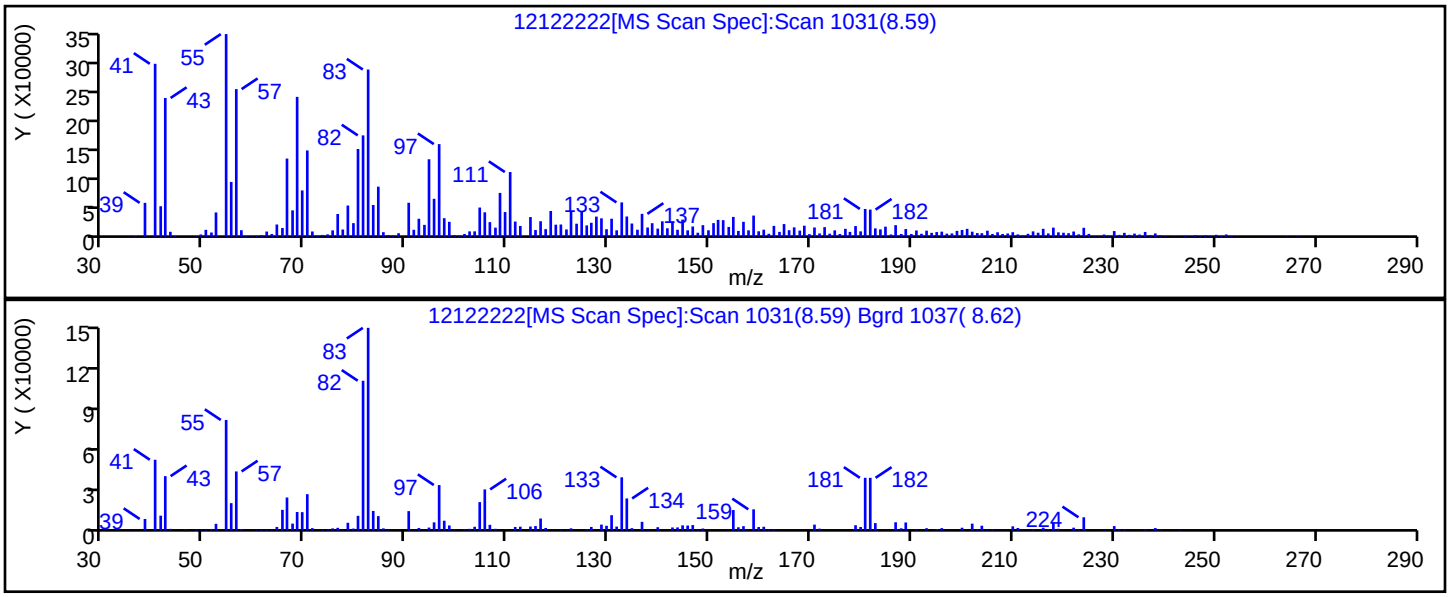
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.584

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



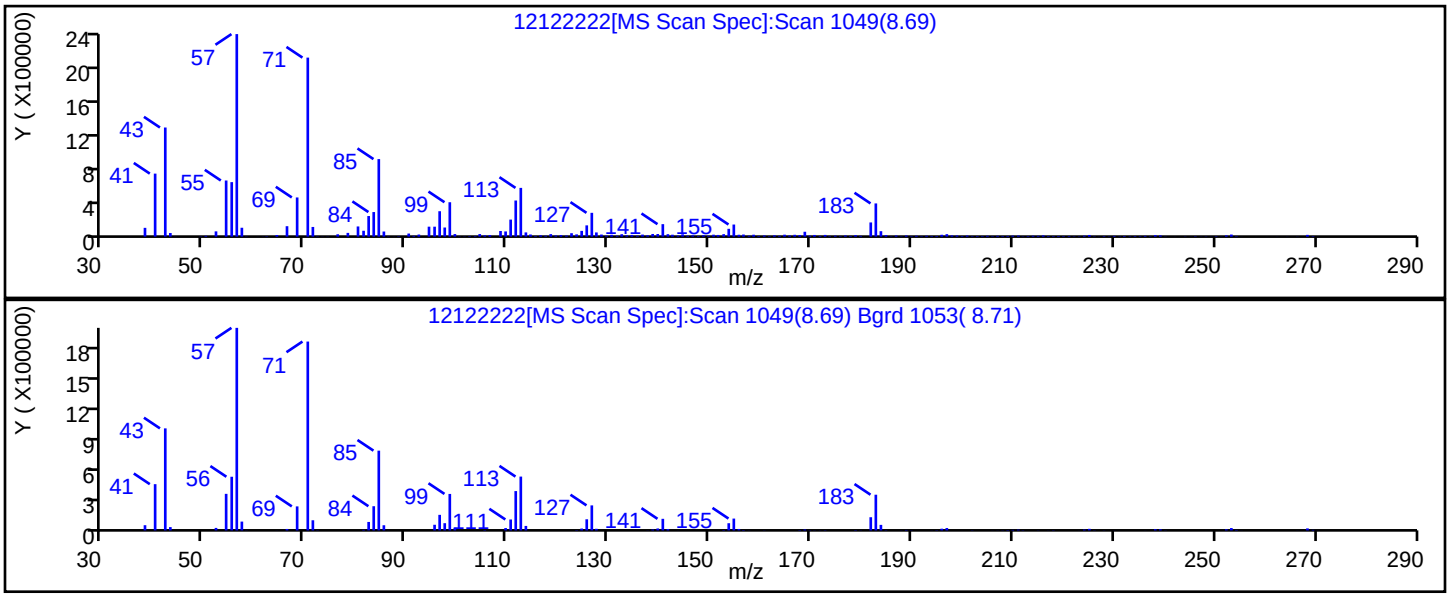
Report Date: 23-Dec-2015 09:58:09 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.680

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



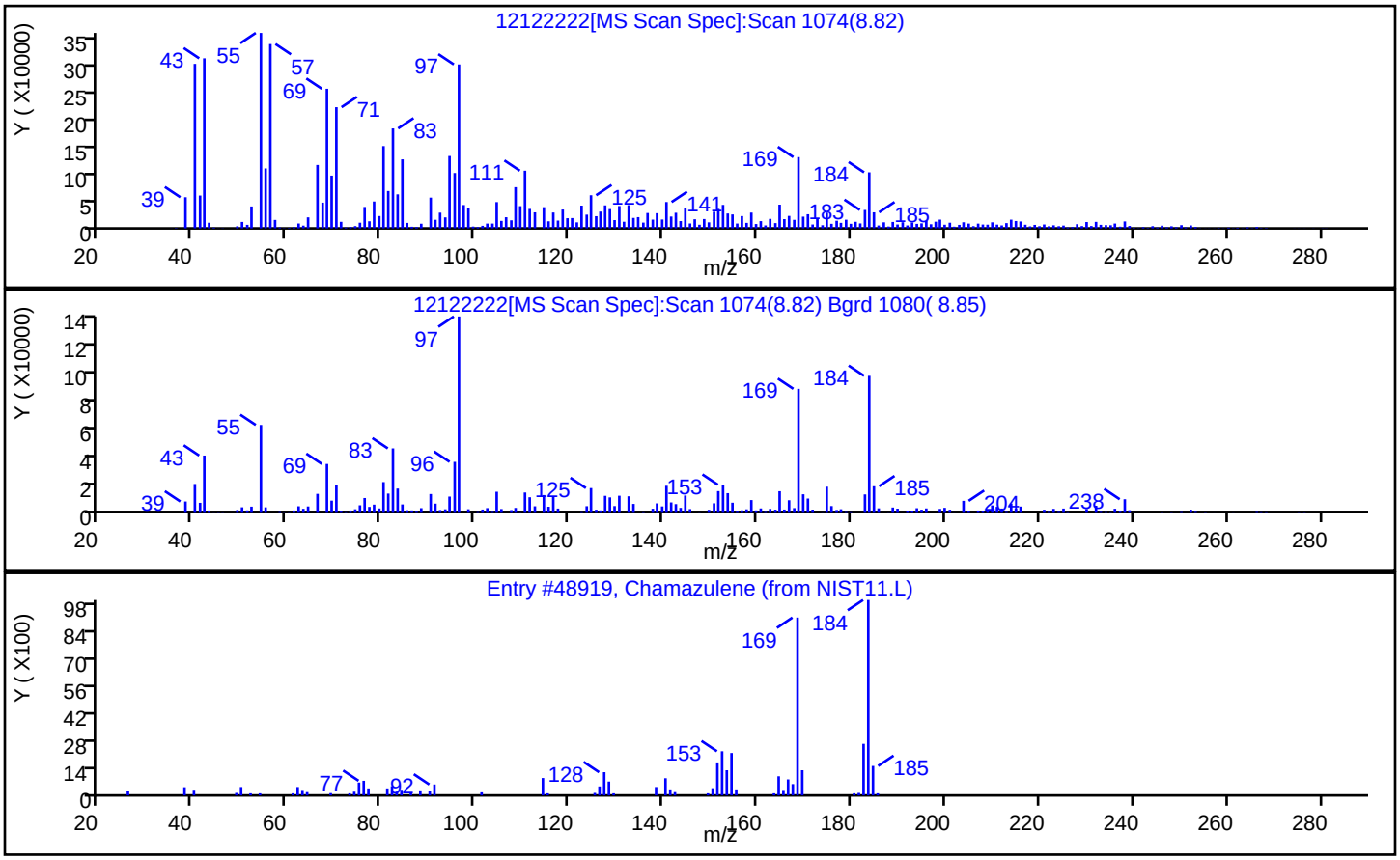
Report Date: 23-Dec-2015 09:58:10 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.814

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Chamazulene	529-05-5	NIST11	48919	C14H16	184	86



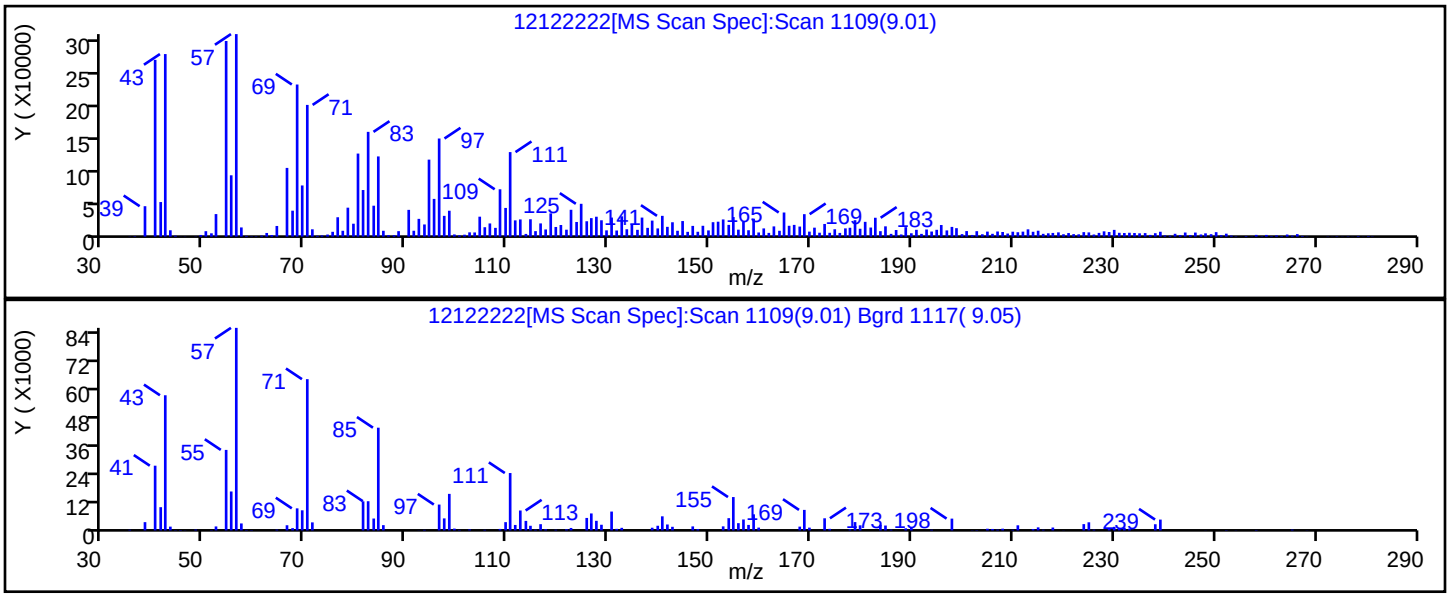
Report Date: 23-Dec-2015 09:58:10 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.001

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



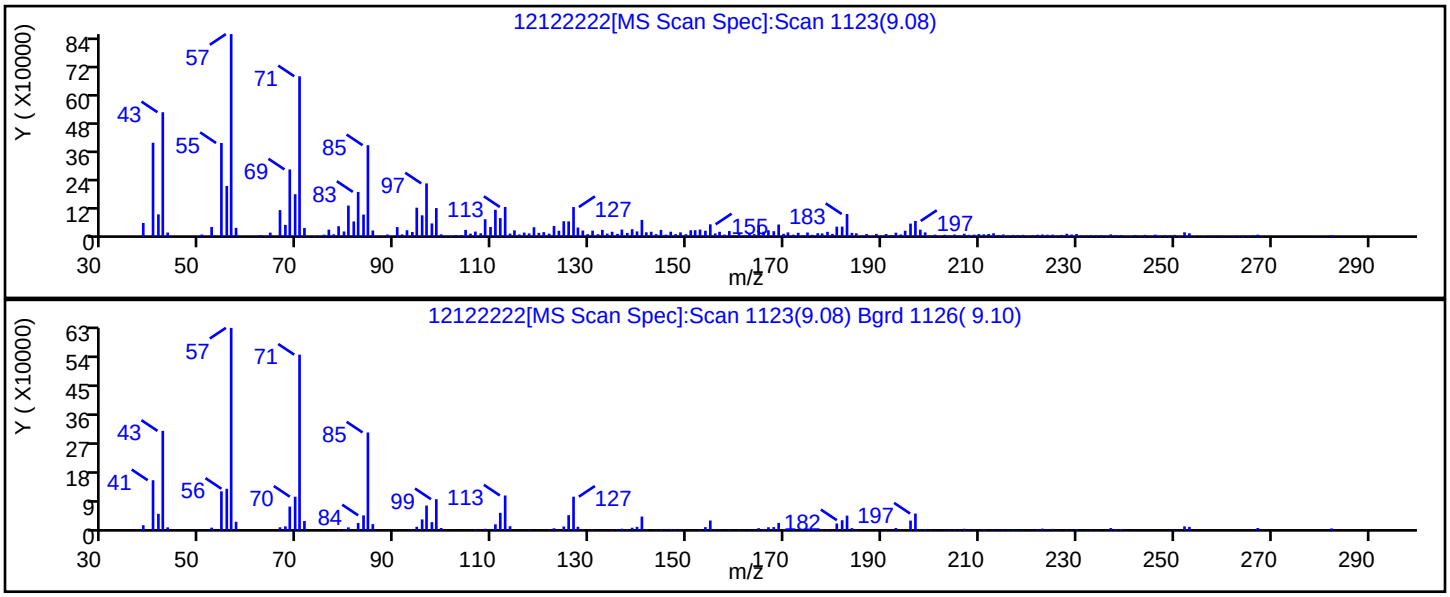
Report Date: 23-Dec-2015 09:58:10 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.076

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



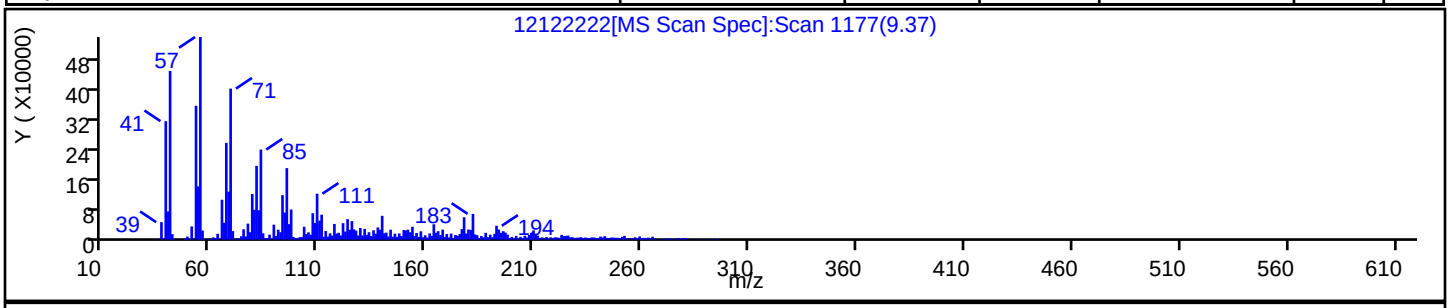
Report Date: 23-Dec-2015 09:58:10 AIM Revision: 1.0 26-May-2015 13:41:26

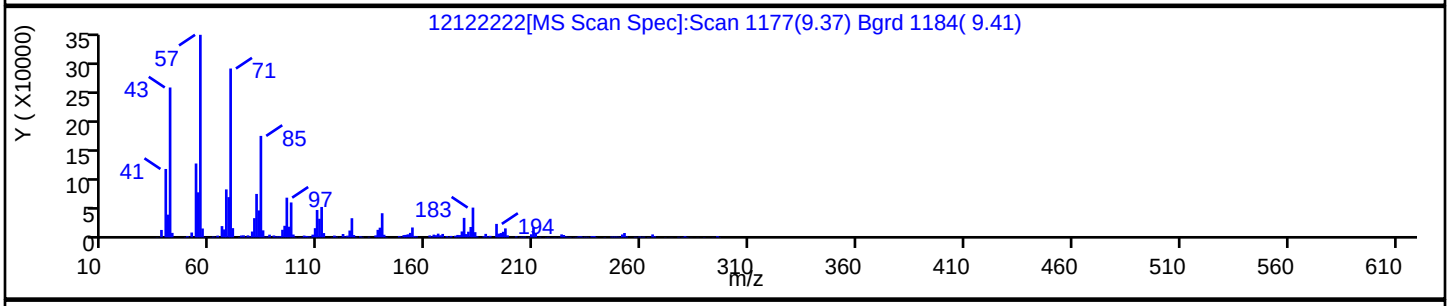
Shealy Environmental Services

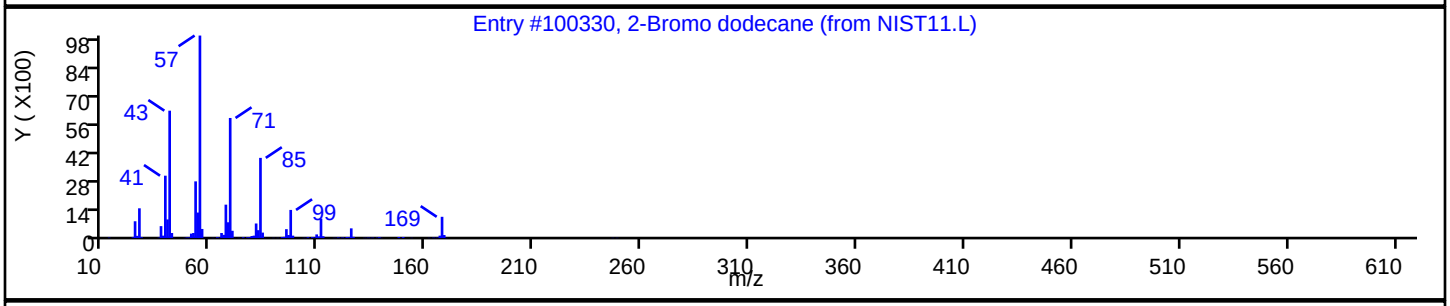
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122222.D		
Injection Date:	22-Dec-2015 19:34:30	Inst. ID:	msd12.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	12122215.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

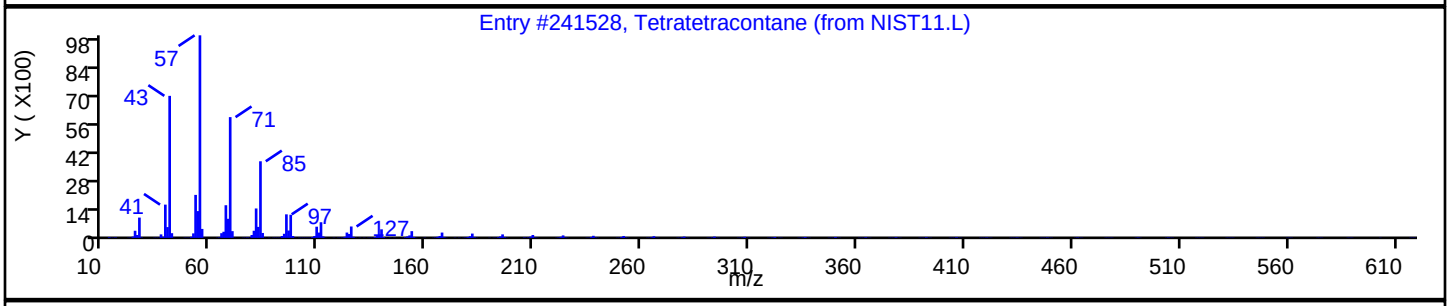
TIC @ 9.364

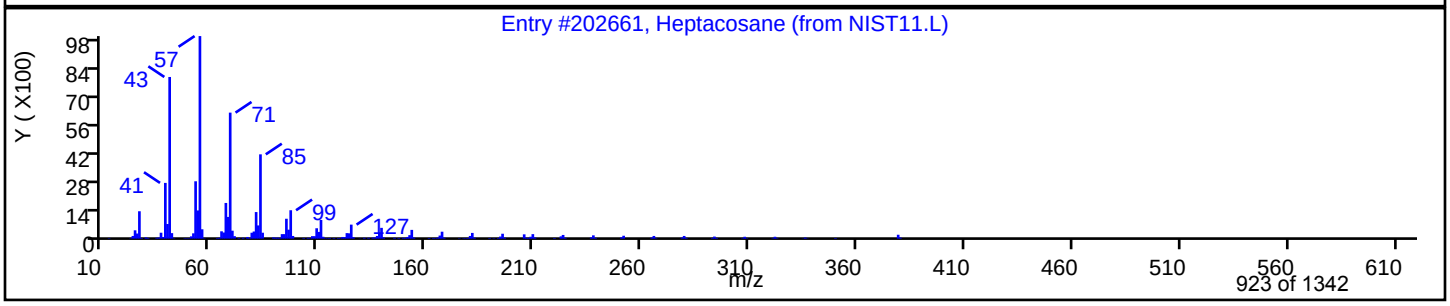
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
2-Bromo dodecane	13187-99-0	NIST11	100330	C12H25Br	248	92
Tetratetracontane	7098-22-8	NIST11	241528	C44H90	619	91
Heptacosane	593-49-7	NIST11	202661	C27H56	380	87











FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R34RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-004

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123107

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	38	U
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-Chloroethyl) ether	190	U
95-57-8	2-Chlorophenol	95	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	190	U
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n propylamine	95	U
67-72-1	Hexachloroethane	95	U
98-95-3	Nitrobenzene	95	U
78-59-1	Isophorone	95	U
88-75-5	2-Nitrophenol	95	U
105-67-9	2,4-Dimethylphenol	95	U
111-91-1	Bis(2-chloroethoxy)methane	95	U
120-83-2	2,4-Dichlorophenol	95	U
91-20-3	Naphthalene	95	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	95	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	95	U
91-57-6	2-Methylnaphthalene	12	J
77-47-4	Hexachlorocyclo-pentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	95	U
95-95-4	2,4,5-Trichlorophenol	95	U
92-52-4	1,1'-Biphenyl	95	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R34RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-004

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123107

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	95	U
88-74-4	2-Nitroaniline	95	U
131-11-3	Dimethylphthalate	95	U
606-20-2	2,6-Dinitrotoluene	95	U
208-96-8	Acenaphthylene	95	U
99-09-2	3-Nitroaniline	190	U
83-32-9	Acenaphthene	95	U
51-28-5	2,4-Dinitrophenol	190	U
100-02-7	4-Nitrophenol	190	U
132-64-9	Dibenzofuran	95	U
121-14-2	2,4-Dinitrotoluene	95	U
84-66-2	Diethylphthalate	95	U
95-94-3	1,2,4,5-Tetrachlorobenzene	95	U
7005-72-3	4-Chlorophenyl-phenyl ether	95	U
86-73-7	Fluorene	95	U
100-01-6	4-Nitroaniline	190	U
534-52-1	4,6-Dinitro-2-methylphenol	190	U
101-55-3	4-Bromophenyl-phenylether	95	U
86-30-6	N-Nitrosodiphenylamine	95	U
118-74-1	Hexachlorobenzene	95	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	190	U
85-01-8	Phenanthrene	95	U
120-12-7	Anthracene	95	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	95	U
206-44-0	Fluoranthene	190	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R34RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-004

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123107

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 20.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	95	U
85-68-7	Butylbenzylphthalate	95	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	95	U
218-01-9	Chrysene	95	U
117-81-7	Bis(2-ethylhexyl)phthalate	95	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	95	U
207-08-9	Benzo(k)fluoranthene	95	U
50-32-8	Benzo(a)pyrene	95	U
193-39-5	Indeno(1,2,3-cd)pyrene	95	U
53-70-3	Dibenzo(a,h)anthracene	95	U
191-24-2	Benzo(g,h,i)perylene	95	U
58-90-2	2,3,4,6-Tetrachlorophenol	95	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R34RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-004
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 12123107
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/23/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/31/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 7 Dilution Factor: 20.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.91	45	J
02		Unknown-02	5.86	53	J
03		Unknown-03	6.27	39	J
04		Unknown-04	6.47	50	J
05					
06					
07		Unknown-05	7.23	55	J
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A	2830	J

[2]EPA-designated Registry Number.

Report Date: 04-Jan-2016 10:27:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Lab Sample ID:	QL16010-004	Client Sample ID:	F6R34RX
Injection Date:	31-Dec-2015 11:18:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QL16010-004		
Misc. Info:	92944 20X		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	4
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	31-Dec-2015 11:49:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.128	5.133	-0.005	26241	0.77965	14.850	Qe
108 1,4-Dioxane	88.0		3.322		ND			
$ 109 1,4-Dioxane-d8	96.0	3.301	3.301	0.000	1415	0.11494	2.1893	eR
4 Phenol	94.0		5.144		ND			
2 Benzaldehyde	77.0		5.138		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.181	5.192	-0.011	22354	0.98470	18.756	Qe
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.293	5.299	-0.006	24624	1.1058	21.063	e
7 2-Chlorophenol	128.0		5.309		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.464	5.470	-0.006	367453	20.000	380.95	
10 2-Methylphenol	108.0		5.619		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.641		ND			
$ 94 4-Methylphenol-d8	113.0	5.710	5.721	-0.011	22034	0.90126	17.167	Qe
14 4-Methylphenol	108.0		5.742		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.763		ND			
12 Acetophenone	105.0		5.779		ND			
15 Hexachloroethane	117.0		5.886		ND			
$ 16 Nitrobenzene-d5	128.0	5.902	5.913	-0.011	13662	1.0487	19.974	Qe
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.175		ND			
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	11263	0.75492	14.379	Qe
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.244		ND			

Report Date: 04-Jan-2016 10:27:32 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123107.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.373	6.372	0.000	17116	0.78149	14.886	e
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.511	6.511	0.000	1506972	20.000	380.95	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.522	6.543	-0.021	27083	0.82030	15.625	Qe
25 4-Chloroaniline	127.0		6.533		ND			
26 Hexachlorobutadiene	225.0		6.602		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.933		ND			
29 2-Methylnaphthalene	142.0	7.094	7.099	-0.005	32708	0.62402	11.886	e
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.323		ND			
32 2,4,5-Trichlorophenol	196.0		7.371		ND			
34 1,1'-Biphenyl	154.0		7.478		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.596		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.681	-0.005	56824	1.1072	21.089	Qe
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.777		ND			
$ 99 Acenaphthylene-d8	160.0	7.863	7.868	-0.005	60345	0.88864	16.926	e
38 Acenaphthylene	152.0		7.884		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.991	7.997	-0.006	785739	20.000	380.95	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.023		ND			
$ 100 4-Nitrophenol-d4	143.0	8.087	8.055	0.032	13714	1.0929	20.818	Qe
44 4-Nitrophenol	109.0		8.061		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.167		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.258		ND			
47 Diethylphthalate	149.0		8.285		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.424	8.435	-0.011	37126	0.77100	14.686	e
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.461		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.461	8.472	-0.011	7117	0.58156	11.077	Qe
51 4,6-Dinitro-2-methylphenol	198.0		8.483		ND			
52 N-Nitrosodiphenylamine	169.0		8.520		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.931		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.268	-0.005	1344575	20.000	380.95	
59 Phenanthrene	178.0		9.289		ND			
$ 103 Anthracene-d10	188.0	9.311	9.316	-0.005	89775	1.3096	24.946	Qe
60 Anthracene	178.0		9.337		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.663		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.625	10.636	-0.011	44109	0.64748	12.333	e

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
64 Pyrene	202.0		10.657		ND			
66 Butylbenzylphthalate	149.0		11.271		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		11.998		ND			
68 3,3'-Dichlorobenzidine	252.0		12.067		ND			
67 Benzo(a)anthracene	228.0		12.158		ND			
* 69 Chrysene-d12	240.0	12.163	12.179	-0.016	1561289	20.000	380.95	
70 Chrysene	228.0		12.217		ND			
72 Di-n-octylphthalate	149.0		12.981		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0		14.316		ND			
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.445	14.461	-0.016	1494800	20.000	380.95	
77 Indeno(1,2,3-cd)pyrene	276.0		16.624		ND			
78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

R - Spike/Surrogte Fails %Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Lab Sample ID:	QL16010-004	Client Sample ID:	F6R34RX
Injection Date:	31-Dec-2015 11:18:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QL16010-004		
Misc. Info:	92944 20X		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	4
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	31-Dec-2015 11:49:30

Tentative Identified Compound Results

RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown						
4.909	304102	2.3855	45.438	8				
		Unknown						
5.860	352676	2.7665	52.696	8				
		Unknown						
6.271	368389	2.0296	38.658	23				
		Unknown						
6.474	479879	2.6438	50.358	23				
		Unknown Alkane						
6.698	404309	2.2275	42.428	23				
		Unknown Alkane						
6.773	750085	4.1324	78.713	23				
		Unknown						
7.233	520178	2.8658	54.587	23				
		Unknown Alkane						
7.275	761324	4.3780	83.390	41				
		Unknown Alkane						
8.664	1035847	5.5129	105.01	58				
		Unknown Alkane						
9.060	575730	3.0641	58.364	58				

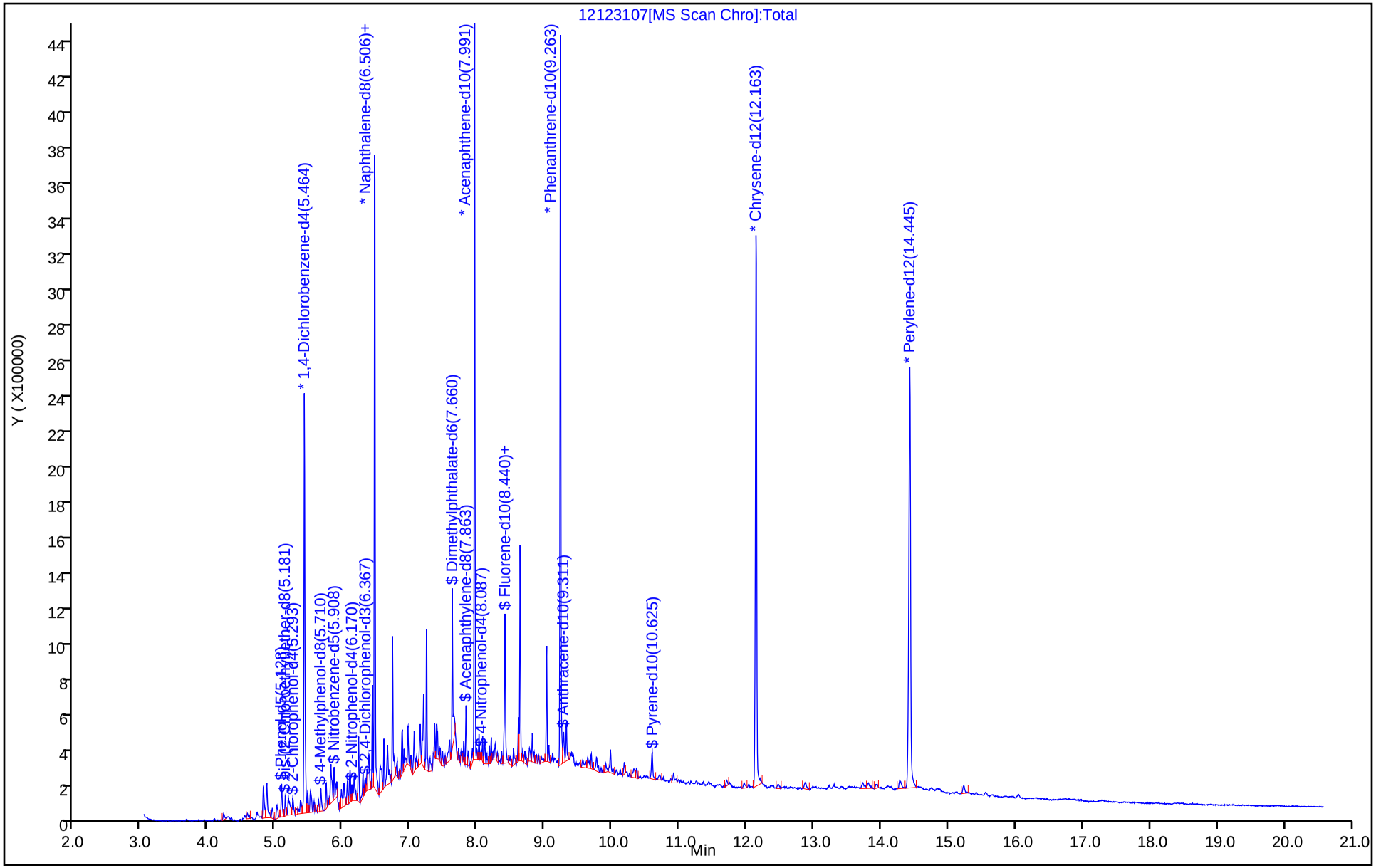
Quant. Compounds	RT	Response	Amount ng/ul

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.464	2549606	20.000
* 23 Naphthalene-d8	6.511	3630230	20.000
* 41 Acenaphthene-d10	7.991	3477975	20.000
* 58 Phenanthrene-d10	9.263	3757892	20.000

Report Date: 04-Jan-2016 10:27:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D				
Injection Date:	31-Dec-2015 11:18:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R34RX	Lab ID:	QL16010-004		
Sample Info:	12123115.b, QL16010-004				
Injection Vol.	1.00 1	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

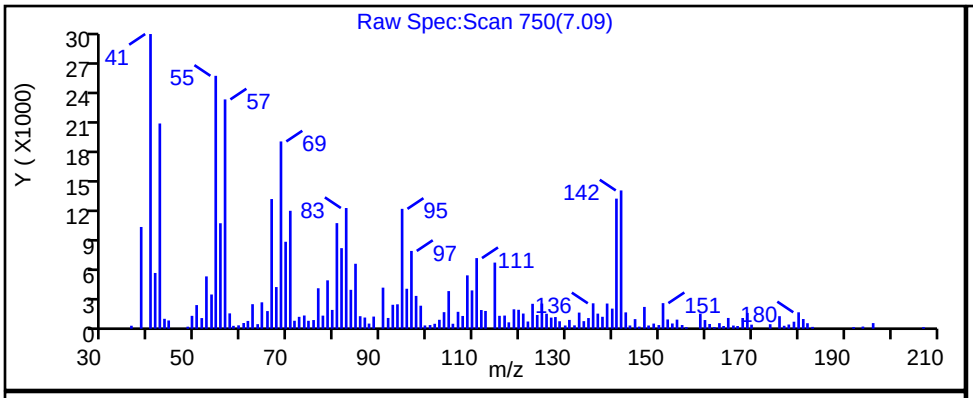


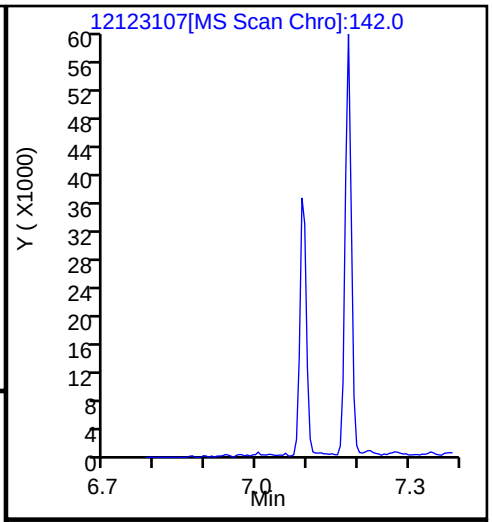
Report Date: 04-Jan-2016 10:27:32 AIM Revision: 1.0 26-May-2015 13:41:26

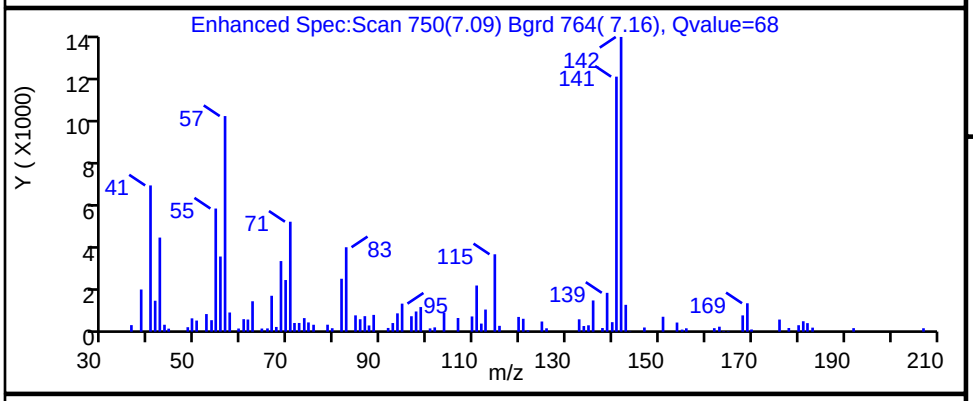
Shealy Environmental Services

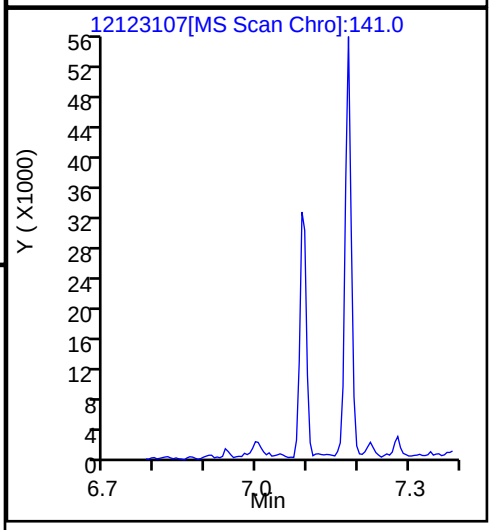
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Injection Date:	31-Dec-2015 11:18:30	Inst. ID:	msd12.i
Client ID:	F6R34RX	Lab ID:	QL16010-004
Sample Info:	12123115.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

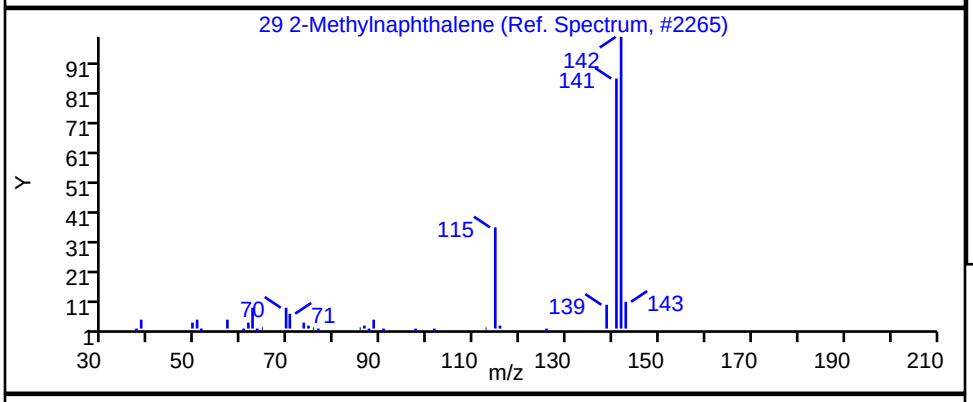
29 2-Methylnaphthalene

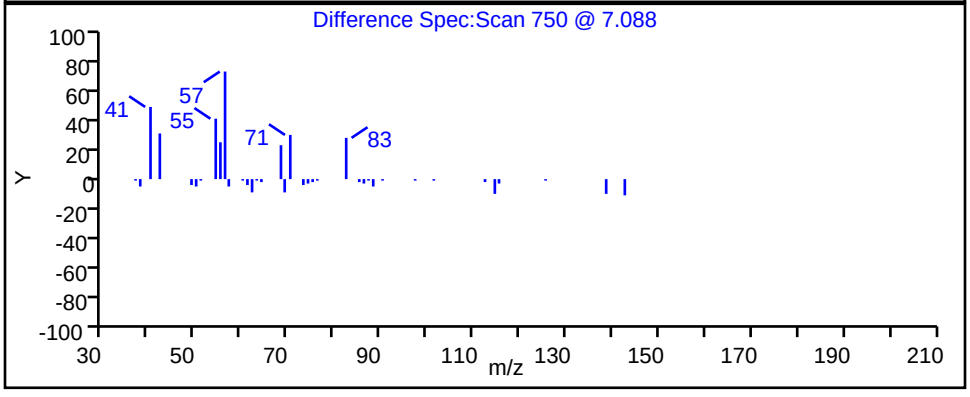












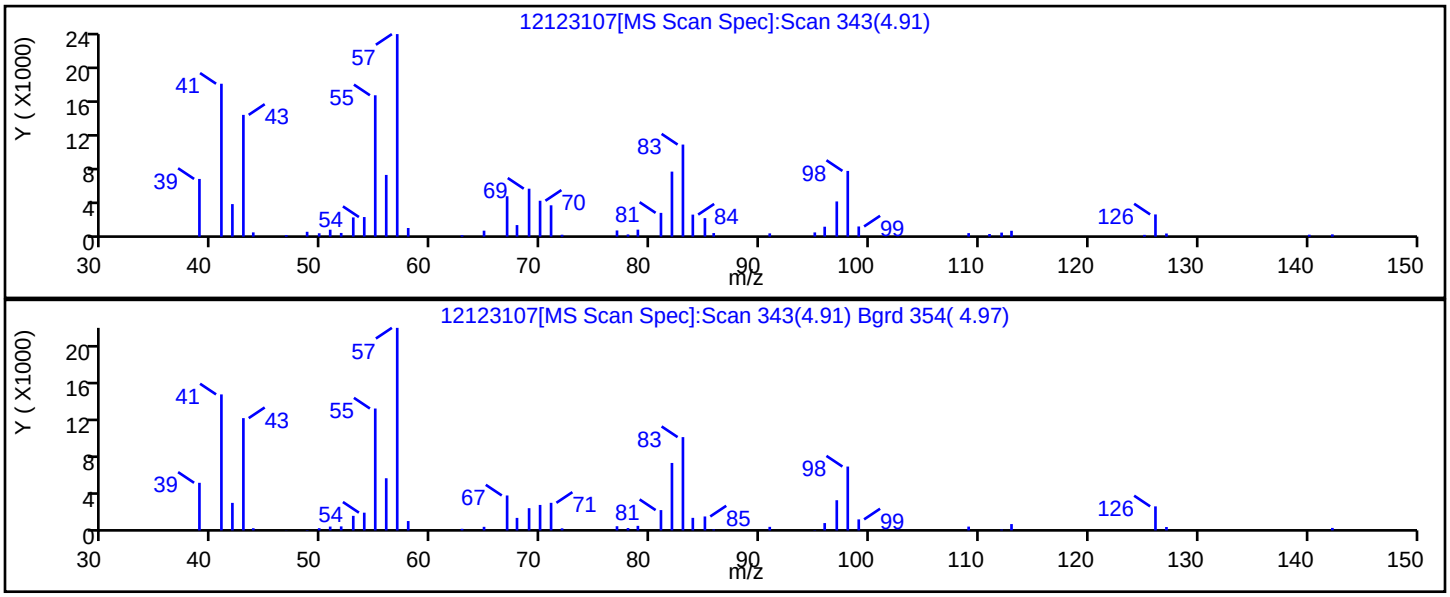
Report Date: 04-Jan-2016 10:27:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Injection Date:	31-Dec-2015 11:18:30	Inst. ID:	msd12.i
Client ID:	F6R34RX	Lab ID:	QL16010-004
Sample Info:	12123115.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.909

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



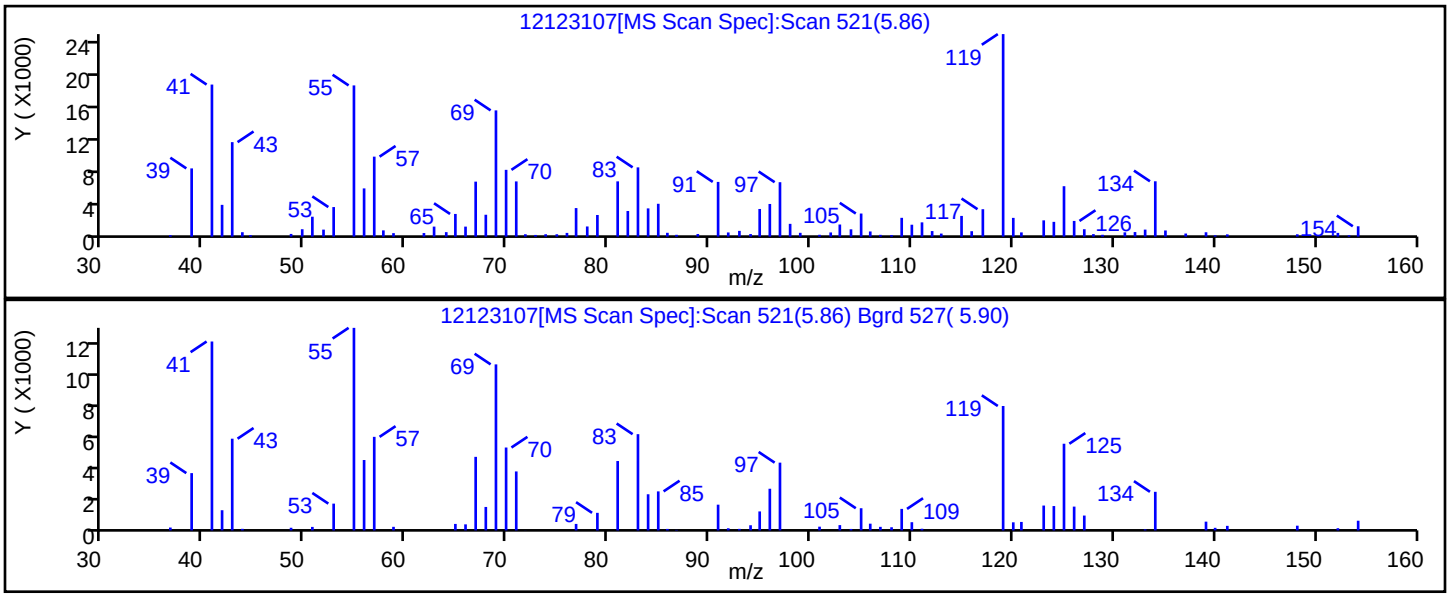
Report Date: 04-Jan-2016 10:27:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Injection Date:	31-Dec-2015 11:18:30	Inst. ID:	msd12.i
Client ID:	F6R34RX	Lab ID:	QL16010-004
Sample Info:	12123115.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.860

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



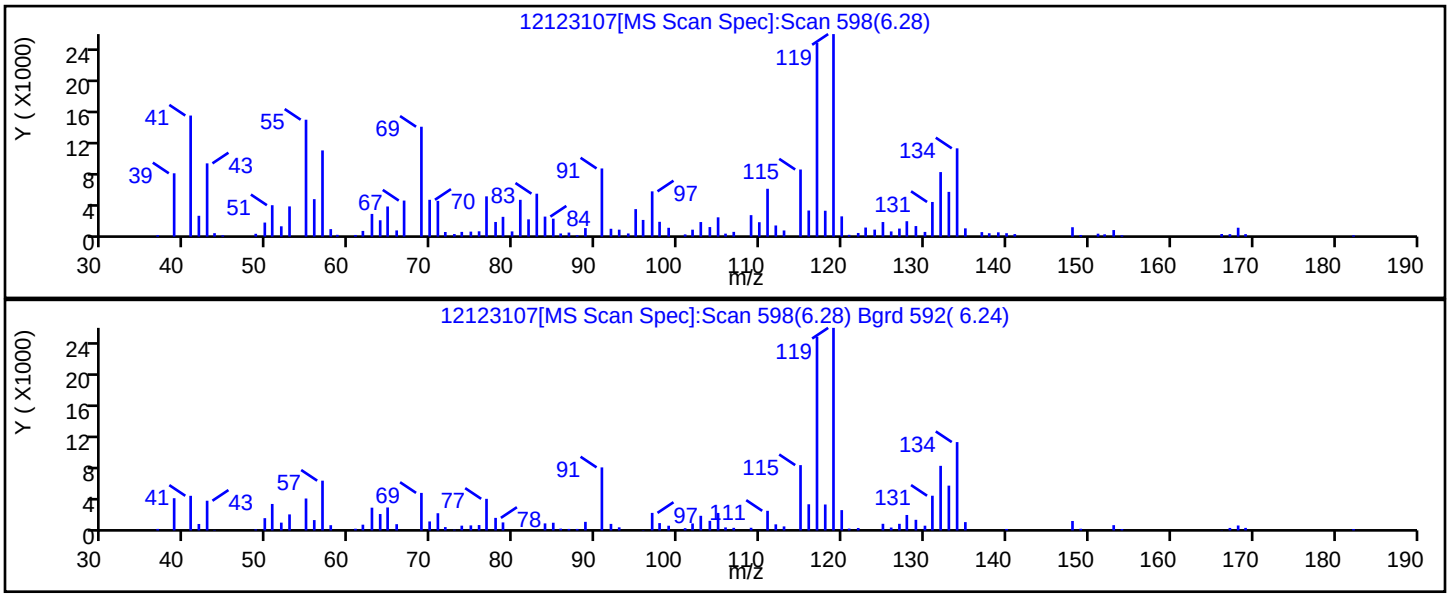
Report Date: 04-Jan-2016 10:27:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Injection Date:	31-Dec-2015 11:18:30	Inst. ID:	msd12.i
Client ID:	F6R34RX	Lab ID:	QL16010-004
Sample Info:	12123115.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.271

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



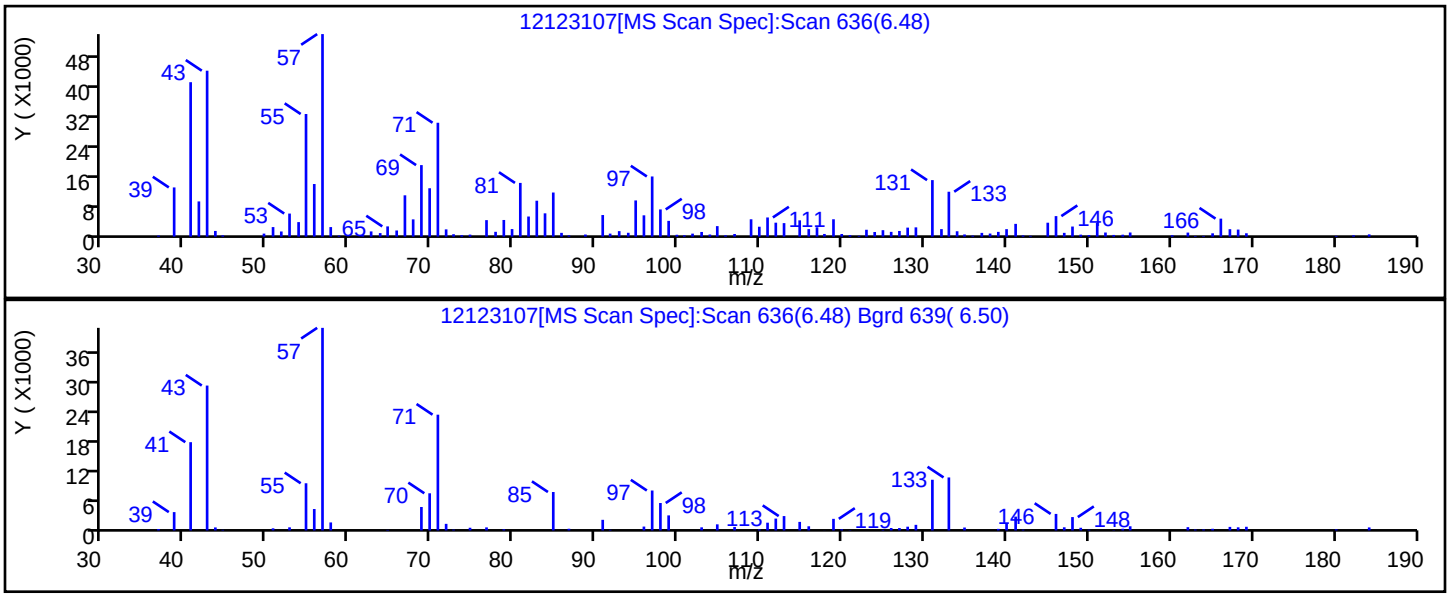
Report Date: 04-Jan-2016 10:27:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Injection Date:	31-Dec-2015 11:18:30	Inst. ID:	msd12.i
Client ID:	F6R34RX	Lab ID:	QL16010-004
Sample Info:	12123115.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.474

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



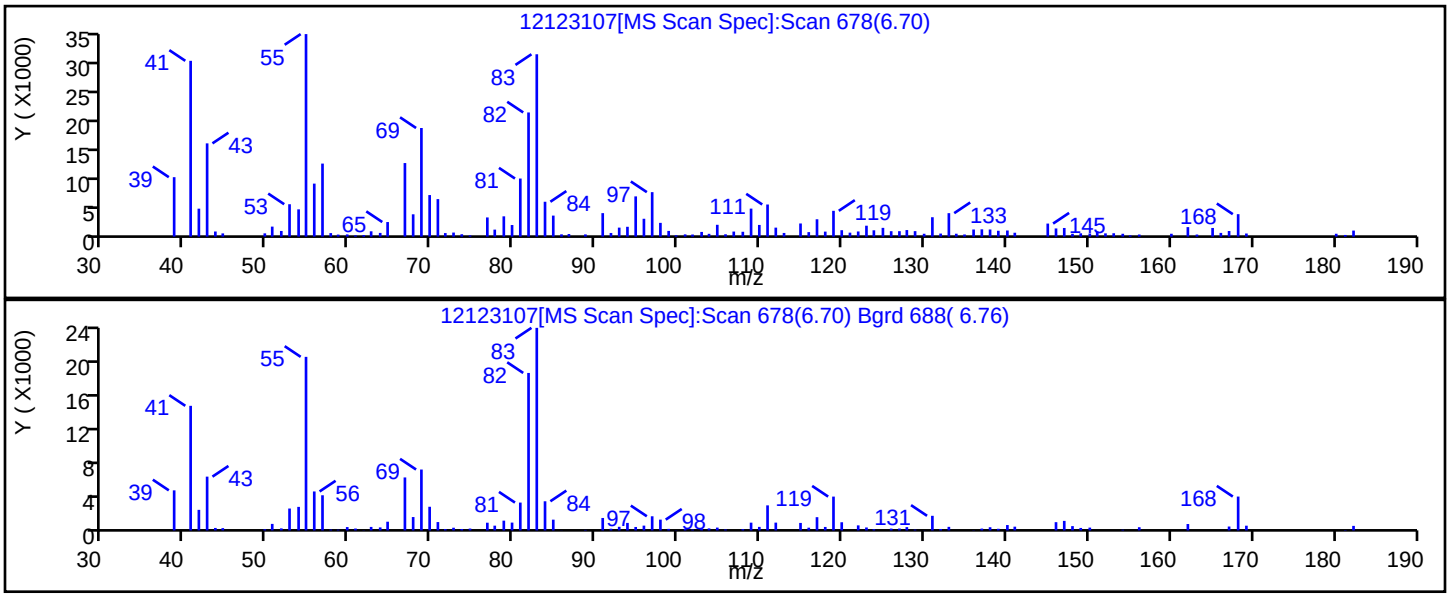
Report Date: 04-Jan-2016 10:27:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Injection Date:	31-Dec-2015 11:18:30	Inst. ID:	msd12.i
Client ID:	F6R34RX	Lab ID:	QL16010-004
Sample Info:	12123115.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.698

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



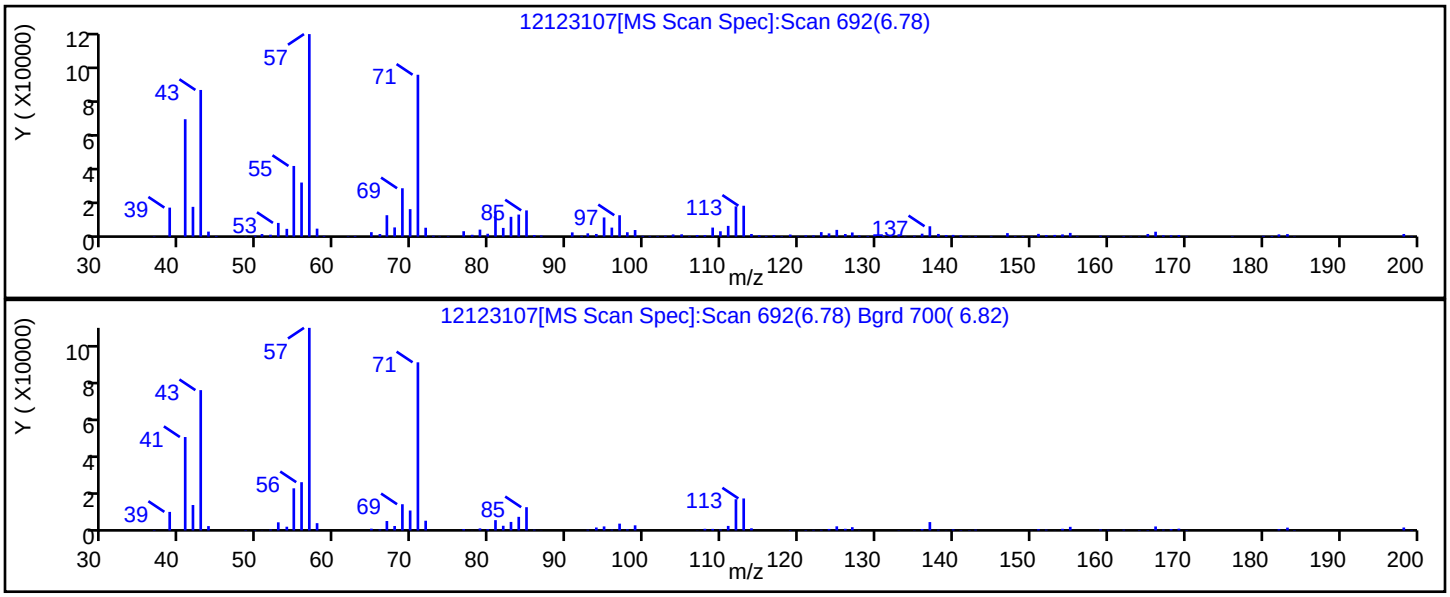
Report Date: 04-Jan-2016 10:27:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Injection Date:	31-Dec-2015 11:18:30	Inst. ID:	msd12.i
Client ID:	F6R34RX	Lab ID:	QL16010-004
Sample Info:	12123115.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.773

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



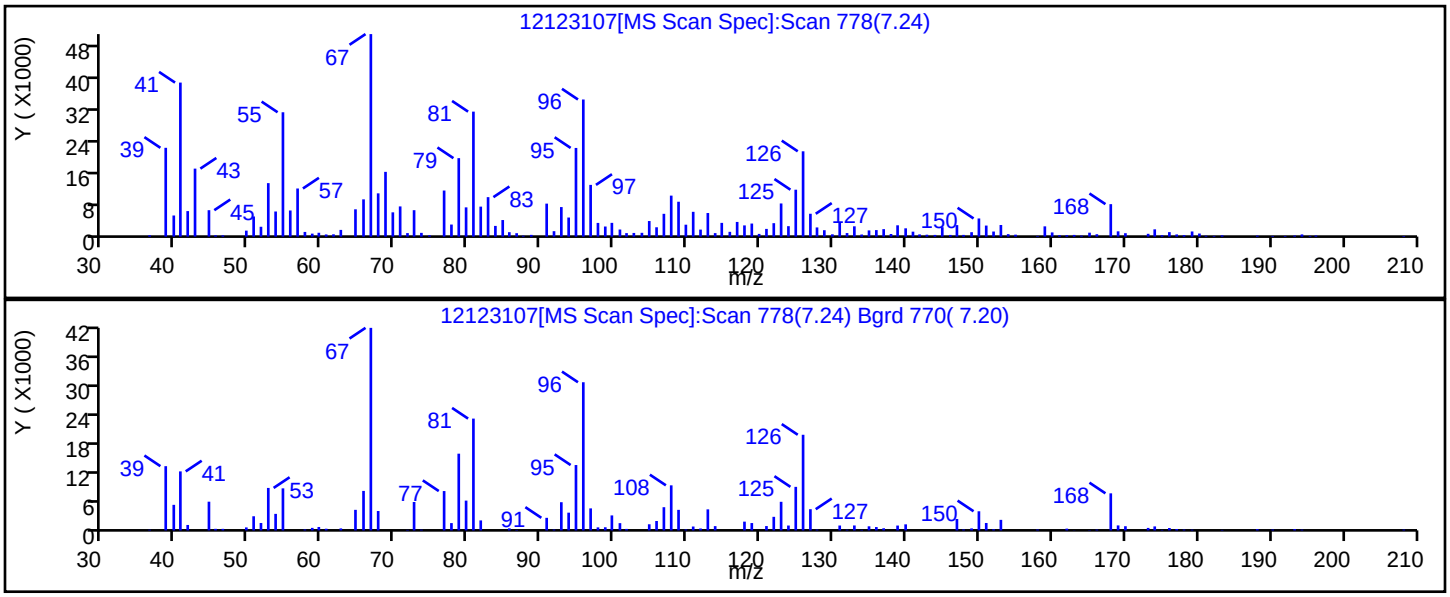
Report Date: 04-Jan-2016 10:27:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Injection Date:	31-Dec-2015 11:18:30	Inst. ID:	msd12.i
Client ID:	F6R34RX	Lab ID:	QL16010-004
Sample Info:	12123115.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.233

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



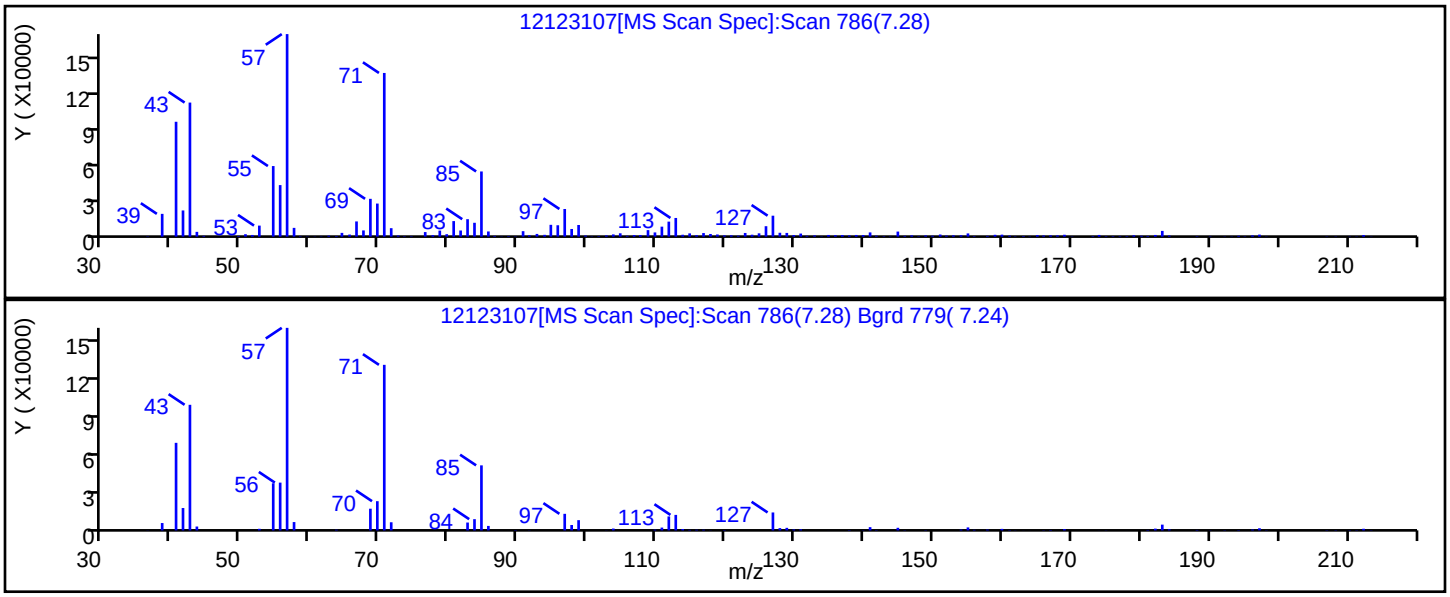
Report Date: 04-Jan-2016 10:27:32 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Injection Date:	31-Dec-2015 11:18:30	Inst. ID:	msd12.i
Client ID:	F6R34RX	Lab ID:	QL16010-004
Sample Info:	12123115.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.275

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



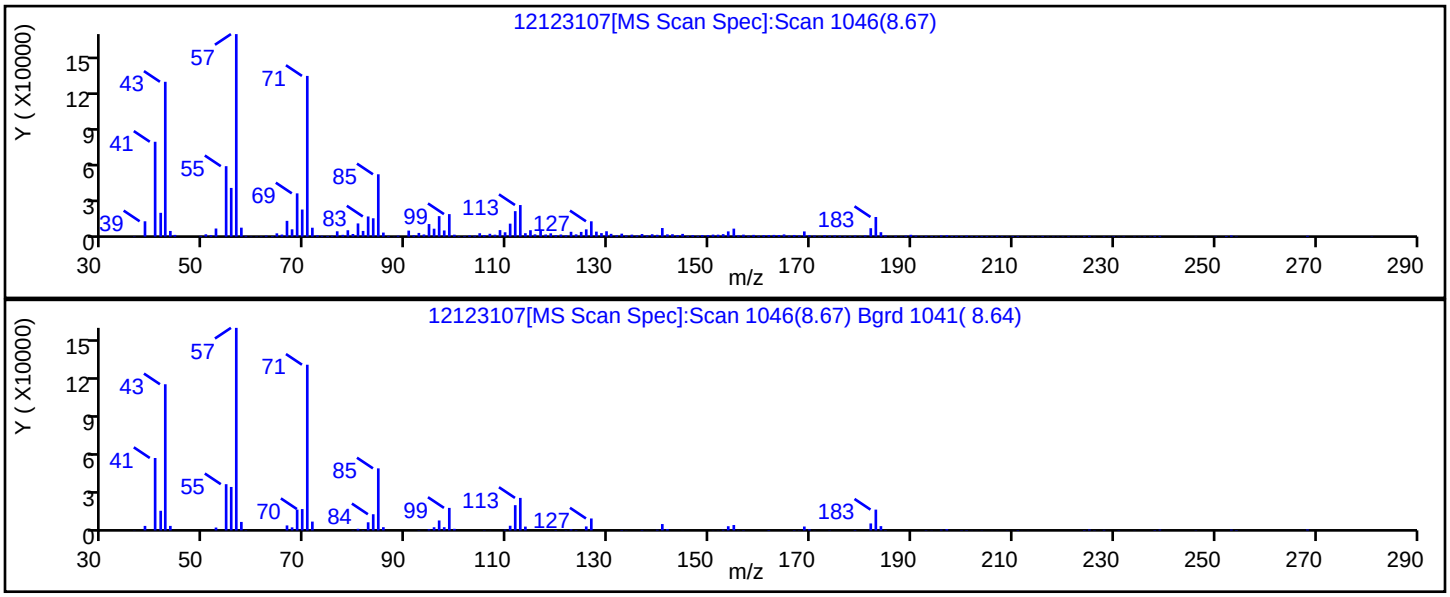
Report Date: 04-Jan-2016 10:27:33 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Injection Date:	31-Dec-2015 11:18:30	Inst. ID:	msd12.i
Client ID:	F6R34RX	Lab ID:	QL16010-004
Sample Info:	12123115.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 8.664

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



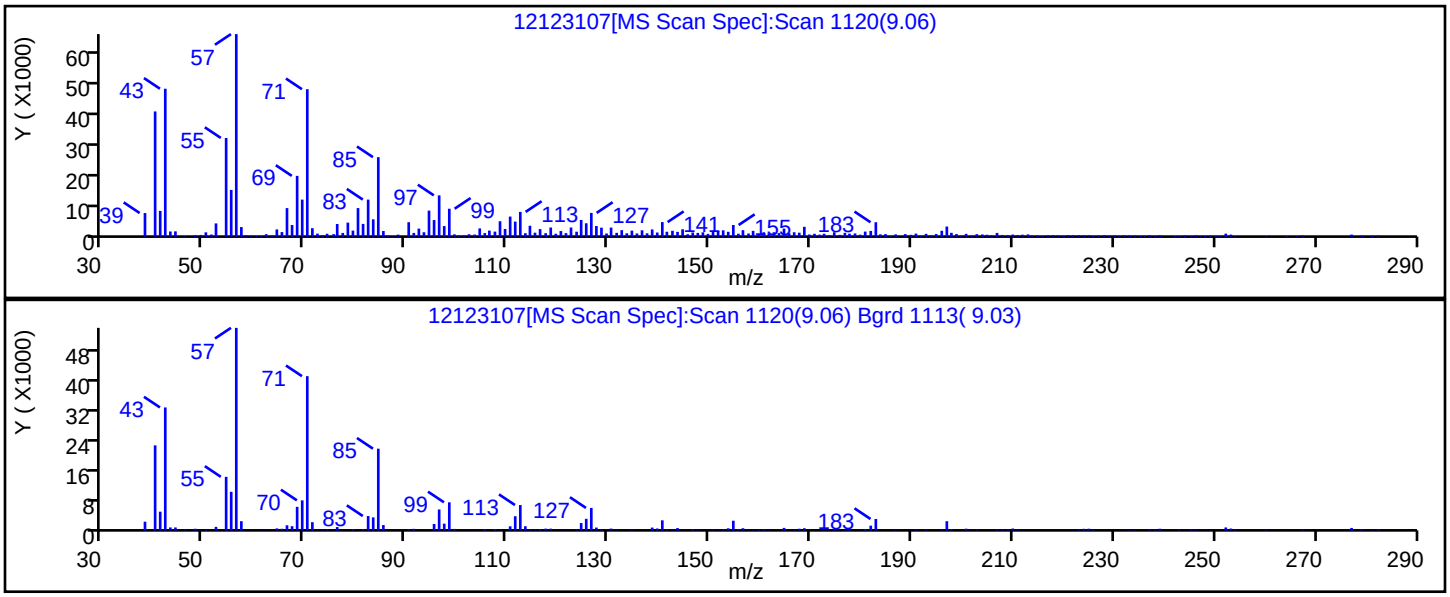
Report Date: 04-Jan-2016 10:27:33 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123107.D		
Injection Date:	31-Dec-2015 11:18:30	Inst. ID:	msd12.i
Client ID:	F6R34RX	Lab ID:	QL16010-004
Sample Info:	12123115.b, QL16010-004		
Injection Vol.	1.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 9.060

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown Alkane		NIST11				



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R35

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-005

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122218

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	1.9	U
100-52-7	Benzaldehyde	9.5	U
108-95-2	Phenol	7.3	JB
111-44-4	Bis(2-Chloroethyl) ether	9.5	U
95-57-8	2-Chlorophenol	4.8	U
95-48-7	2-Methylphenol	23	B
108-60-1	2,2'-Oxybis(1-chloropropane)	9.5	U
98-86-2	Acetophenone	9.5	U
106-44-5	4-Methylphenol	12	B
621-64-7	N-Nitroso-di-n propylamine	4.8	U
67-72-1	Hexachloroethane	4.8	U
98-95-3	Nitrobenzene	4.8	U
78-59-1	Isophorone	4.8	U
88-75-5	2-Nitrophenol	4.8	U
105-67-9	2,4-Dimethylphenol	14	B
111-91-1	Bis(2-chloroethoxy)methane	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U
91-20-3	Naphthalene	4.8	U
106-47-8	4-Chloroaniline	9.5	U
87-68-3	Hexachlorobutadiene	4.8	U
105-60-2	Caprolactam	9.5	U
59-50-7	4-Chloro-3-methylphenol	4.8	U
91-57-6	2-Methylnaphthalene	4.8	U
77-47-4	Hexachlorocyclo-pentadiene	9.5	U
88-06-2	2,4,6-Trichlorophenol	4.8	U
95-95-4	2,4,5-Trichlorophenol	4.8	U
92-52-4	1,1'-Biphenyl	4.8	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R35

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-005

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122218

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	4.8	U
88-74-4	2-Nitroaniline	4.8	U
131-11-3	Dimethylphthalate	4.8	U
606-20-2	2,6-Dinitrotoluene	4.8	U
208-96-8	Acenaphthylene	4.8	U
99-09-2	3-Nitroaniline	9.5	U
83-32-9	Acenaphthene	4.8	U
51-28-5	2,4-Dinitrophenol	9.5	U
100-02-7	4-Nitrophenol	9.5	U
132-64-9	Dibenzofuran	4.8	U
121-14-2	2,4-Dinitrotoluene	4.8	U
84-66-2	Diethylphthalate	4.8	U
95-94-3	1,2,4,5-Tetrachlorobenzene	4.8	U
7005-72-3	4-Chlorophenyl-phenyl ether	4.8	U
86-73-7	Fluorene	4.8	U
100-01-6	4-Nitroaniline	9.5	U
534-52-1	4,6-Dinitro-2-methylphenol	9.5	U
101-55-3	4-Bromophenyl-phenylether	4.8	U
86-30-6	N-Nitrosodiphenylamine	4.8	U
118-74-1	Hexachlorobenzene	4.8	U
1912-24-9	Atrazine	9.5	U
87-86-5	Pentachlorophenol	9.5	U
85-01-8	Phenanthrene	4.8	U
120-12-7	Anthracene	4.8	U
86-74-8	Carbazole	9.5	U
84-74-2	Di-n-butylphthalate	4.8	U
206-44-0	Fluoranthene	9.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R35

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-005

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122218

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	4.8	U
85-68-7	Butylbenzylphthalate	4.8	U
91-94-1	3,3'-Dichlorobenzidine	9.5	U
56-55-3	Benzo(a)anthracene	4.8	U
218-01-9	Chrysene	4.8	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.8	U
117-84-0	Di-n-octylphthalate	9.5	U
205-99-2	Benzo(b)fluoranthene	4.8	U
207-08-9	Benzo(k)fluoranthene	4.8	U
50-32-8	Benzo(a)pyrene	4.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U
53-70-3	Dibenzo(a,h)anthracene	4.8	U
191-24-2	Benzo(g,h,i)perylene	4.8	U
58-90-2	2,3,4,6-Tetrachlorophenol	4.8	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R35

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035
Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29
Analytical Method: SVOA Level: LOW
Matrix: Water Lab Sample ID: QL16010-005
Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122218
% Solids: Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015
Extract Concentrated: (Y/N) Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL) Extract Volume: 1000 (uL)
Heated Purge: (Y/N) Extraction Type: CLLE
Purge Volume: (mL) Injection Volume: 1.0
Cleanup Types: pH: 7 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	576-26-1	Phenol, 2,6-dimethyl-	5.98	2.8	NJ
02	90-00-6	Phenol, 2-ethyl-	6.09	2.2	NJ
03	123-07-9	Phenol, 4-ethyl-	6.25	4.7	NJ
04		Unknown-01	7.01	2.0	J
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122218.D		
Lab Sample ID:	QL16010-005	Client Sample ID:	F6R35
Injection Date:	22-Dec-2015 17:40:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-005		
Misc. Info:	92747		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	15
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 09:52:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.122	5.123	-0.001	876812	29.299	27.904	
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	44047	4.0241	3.8324	
4 Phenol	94.0	5.133	5.134	-0.001	250848	7.7149	7.3475	Qe
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	571819	28.329	26.980	
5 bis(2-Chloroethyl)Ether	93.0		5.230		ND			
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	685419	34.618	32.970	
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	326716	20.000	19.048	
10 2-Methylphenol	108.0	5.609	5.614	-0.005	539523	24.524	23.357	
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.705	5.710	-0.005	692246	31.846	30.329	
14 4-Methylphenol	108.0	5.726	5.732	-0.006	303342	12.710	12.104	
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	356315	30.064	28.633	
17 Nitrobenzene	77.0		5.930		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0	6.164	6.170	-0.006	377184	14.587	13.892	
$ 95 2-Nitrophenol-d4	143.0	6.169	6.175	-0.006	413294	30.451	29.001	
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			

Report Date: 23-Dec-2015 09:58:06 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122218.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.368	-0.006	593939	29.810	28.391	
22 2,4-Dichlorophenol	162.0		6.373		ND			
* 23 Naphthalene-d8	136.0	6.511	6.517	-0.006	1370901	20.000	19.048	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.538	6.544	-0.006	418929	13.948	13.284	
25 4-Chloroaniline	127.0		6.549		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.918		ND			
29 2-Methylnaphthalene	142.0		7.105		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.522		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.681	7.687	-0.006	1672304	35.291	33.611	
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.868	7.869	-0.001	2134545	34.045	32.423	
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	725470	20.000	19.048	
43 2,4-Dinitrophenol	184.0		8.018		ND			
42 Acenaphthene	153.0		8.024		ND			
$ 100 4-Nitrophenol-d4	143.0	8.029	8.034	-0.005	351512	30.341	28.896	Q
44 4-Nitrophenol	109.0		8.040		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1426874	32.094	30.565	
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.461	8.472	-0.011	310504	26.419	25.161	Q
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.943		ND			
57 Pentachlorophenol	266.0		9.087		ND			
* 58 Phenanthrene-d10	188.0	9.268	9.268	0.000	1291296	20.000	19.048	
59 Phenanthrene	178.0		9.290		ND			
$ 103 Anthracene-d10	188.0	9.316	9.316	0.000	2058856	31.274	29.785	
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.664		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2494005	38.919	37.065	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
64 Pyrene	202.0		10.663		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.004		ND			
68 3,3'-Dichlorobenzidine	252.0		12.068		ND			
67 Benzo(a)anthracene	228.0		12.159		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1468669	20.000	19.048	
70 Chrysene	228.0		12.217		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.852		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.306	14.317	-0.011	1004440	14.627	13.930	
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.450	14.461	-0.011	1416592	20.000	19.048	
77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122218.D		
Lab Sample ID:	QL16010-005	Client Sample ID:	F6R35
Injection Date:	22-Dec-2015 17:40:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-005		
Misc. Info:	92747		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	15
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 09:52:30

Tentative Identified Compound Results

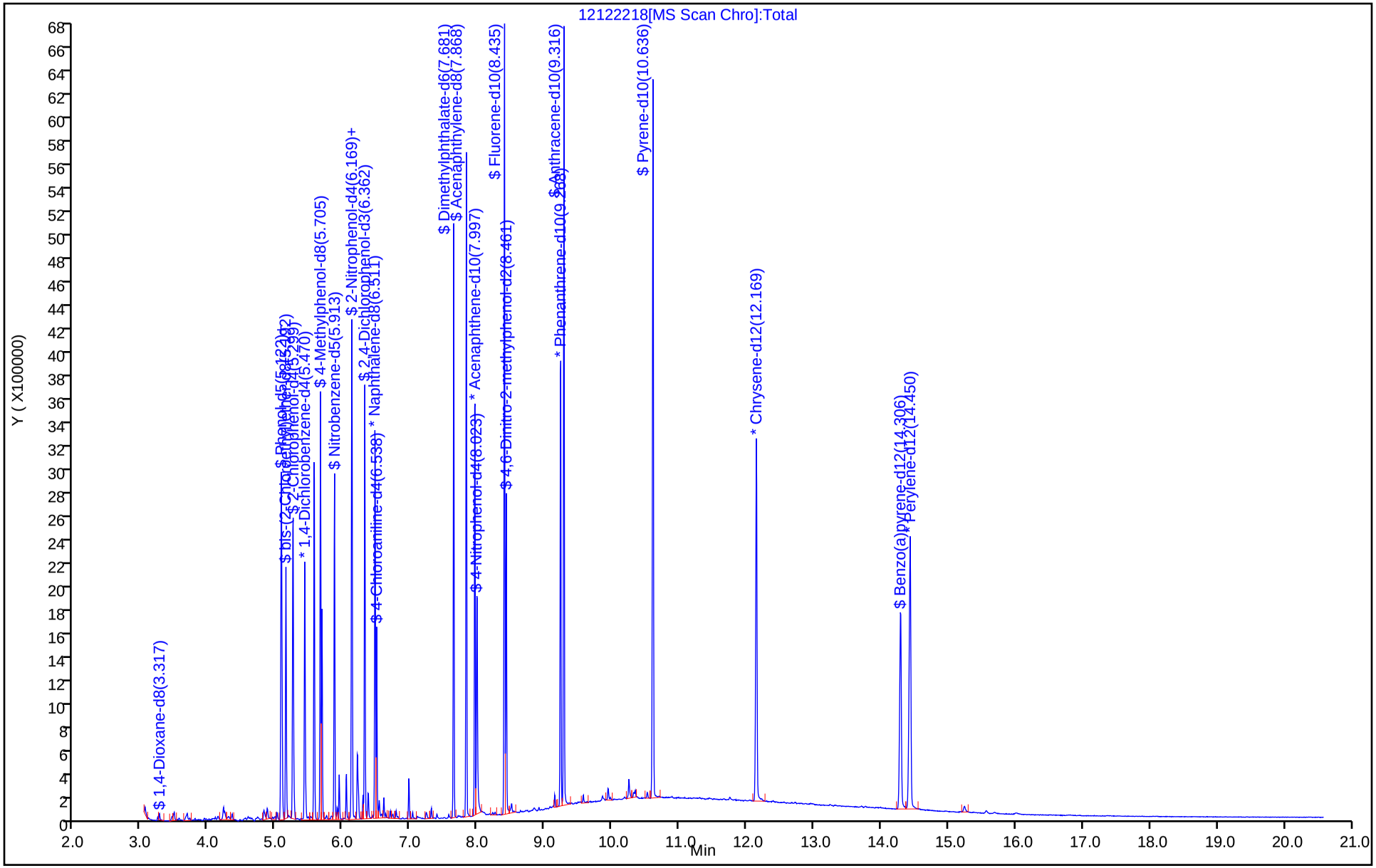
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
576-26-1 Phenol, 2,6-dimethyl-								
5.983	328731	2.9008	2.7626	8	98	9926	C8H10O	122
90-00-6 Phenol, 2-ethyl-								
6.089	348989	2.3507	2.2388	23	95	9907	C8H10O	122
123-07-9 Phenol, 4-ethyl-								
6.250	740312	4.9866	4.7491	23	91	9918	C8H10O	122
Unknown								
7.014	312729	2.1065	2.0062	23				

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.470	2266518	20.000
* 23 Naphthalene-d8	6.511	2969212	20.000

Report Date: 23-Dec-2015 09:58:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122218.D				
Injection Date:	22-Dec-2015 17:40:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R35	Lab ID:	QL16010-005		
Sample Info:	12122215.b, QL16010-005				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

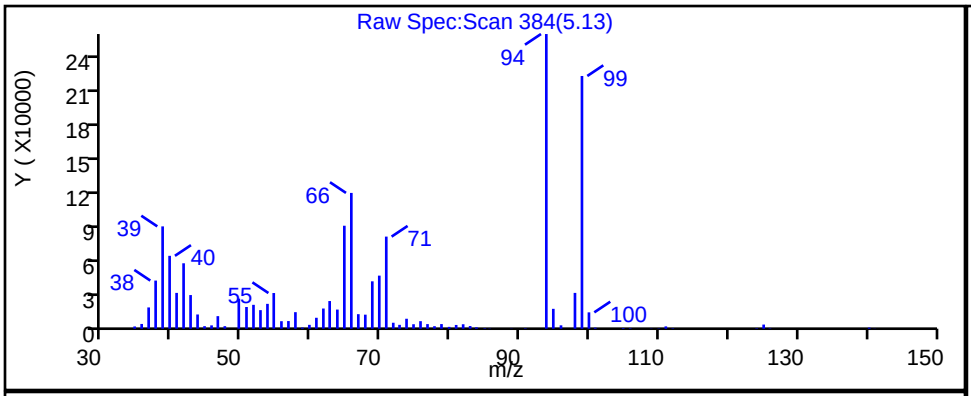


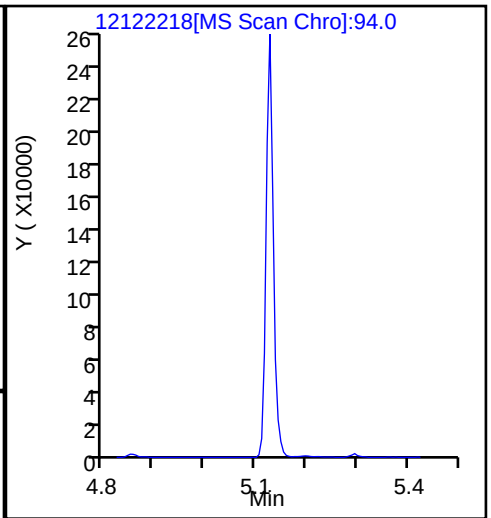
Report Date: 23-Dec-2015 09:58:06 AIM Revision: 1.0 26-May-2015 13:41:26

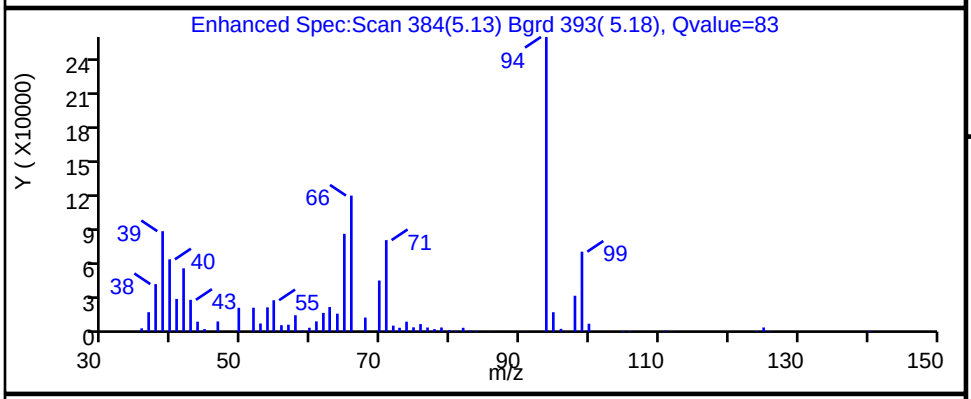
Shealy Environmental Services

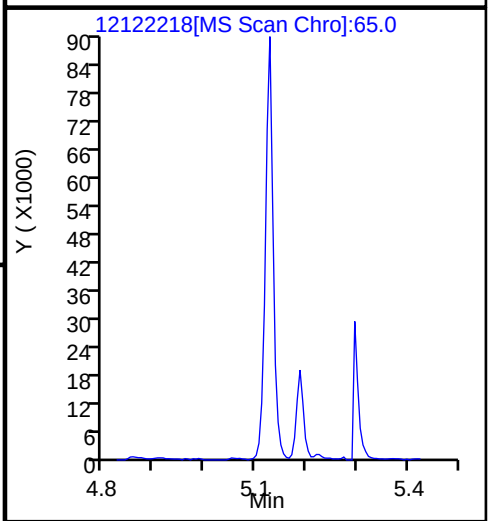
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122218.D		
Injection Date:	22-Dec-2015 17:40:30	Inst. ID:	msd12.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	12122215.b, QL16010-005		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

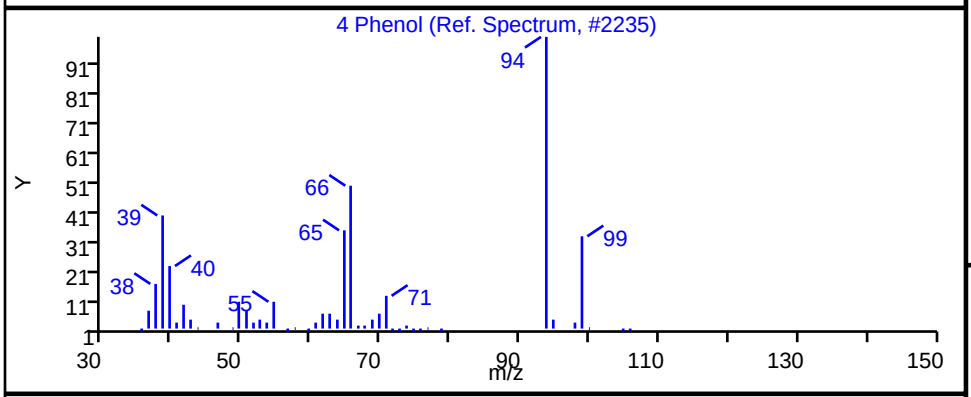
4 Phenol

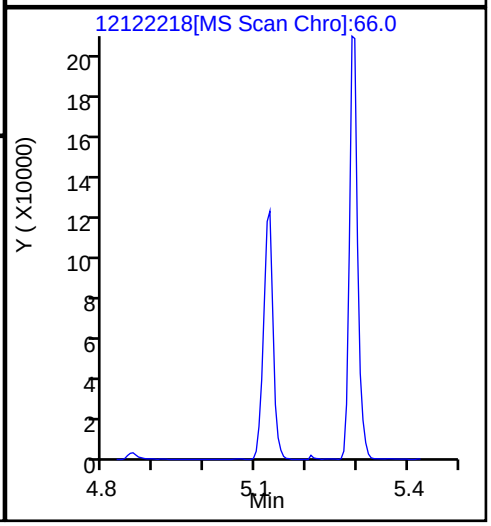


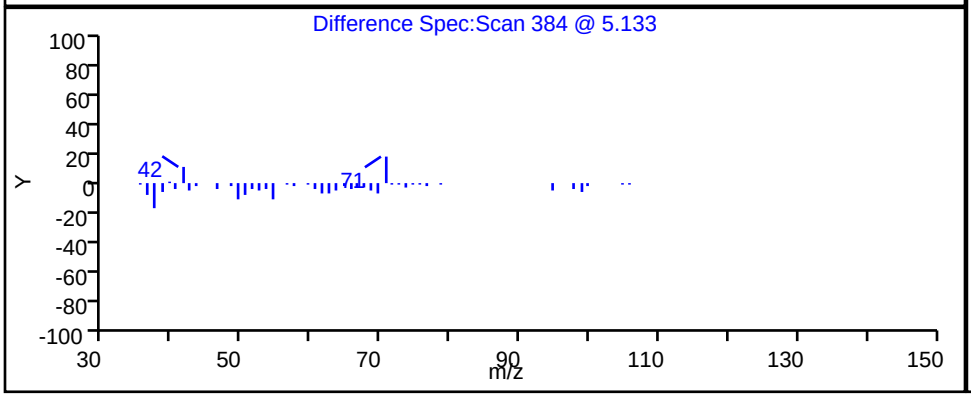










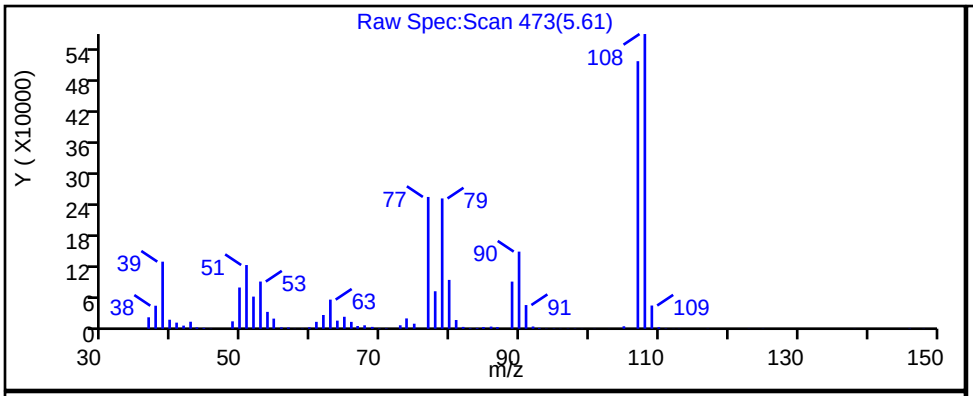


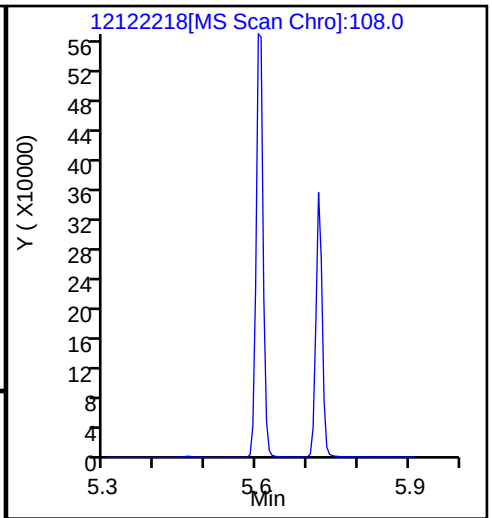
Report Date: 23-Dec-2015 09:58:06 AIM Revision: 1.0 26-May-2015 13:41:26

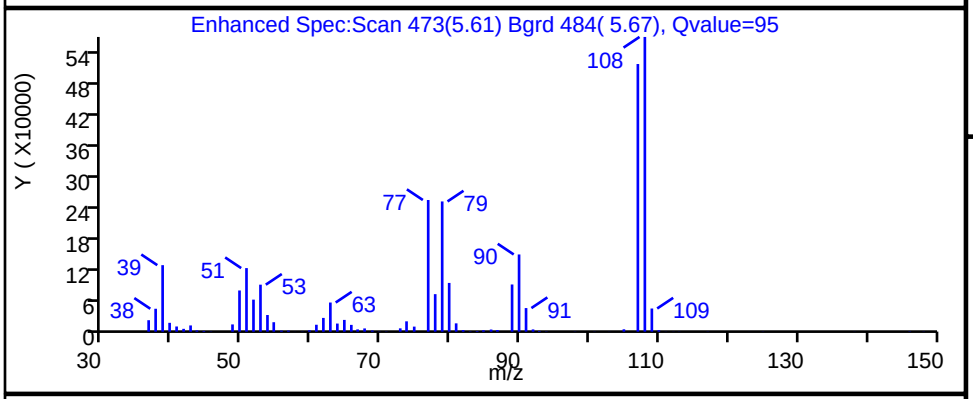
Shealy Environmental Services

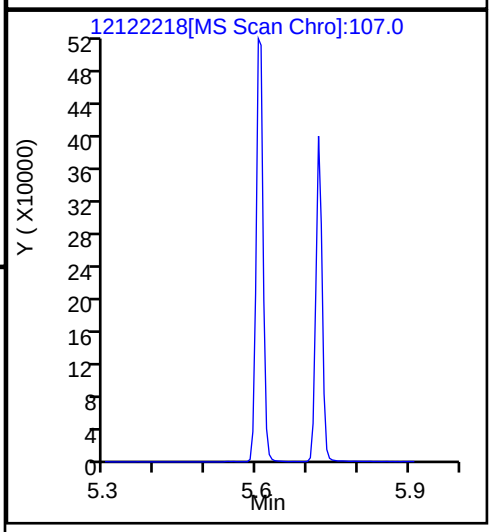
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122218.D		
Injection Date:	22-Dec-2015 17:40:30	Inst. ID:	msd12.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	12122215.b, QL16010-005		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

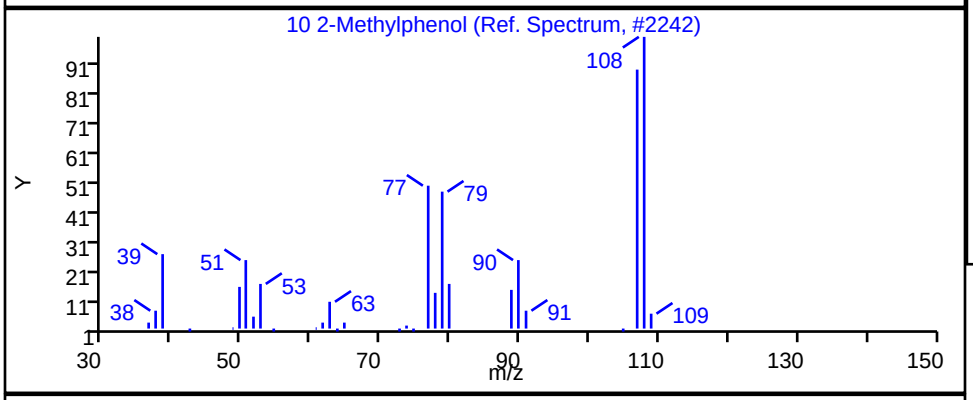
10 2-Methylphenol

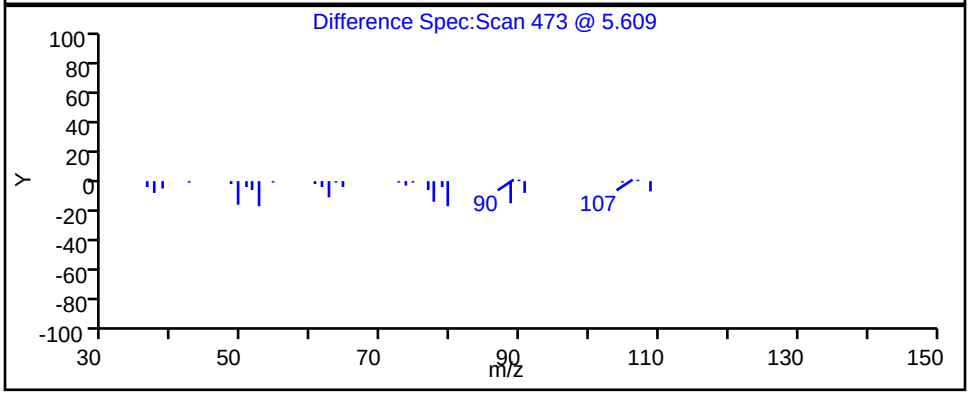










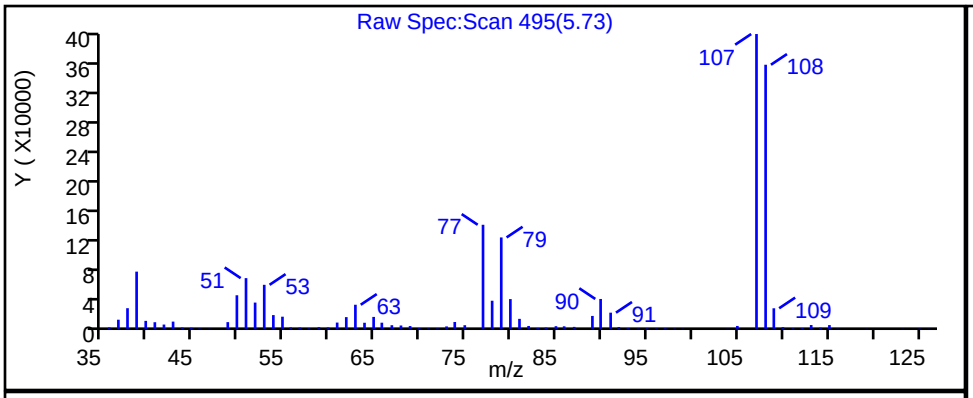


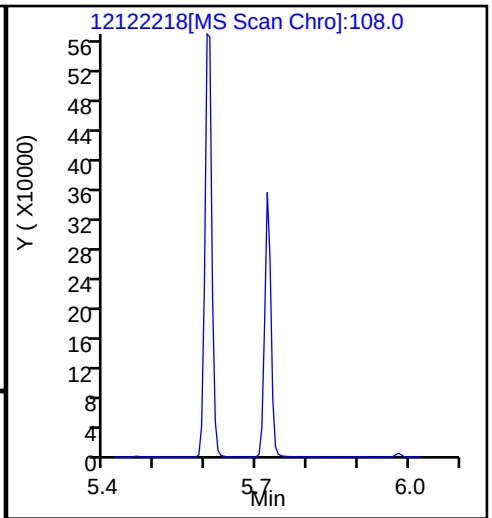
Report Date: 23-Dec-2015 09:58:06 AIM Revision: 1.0 26-May-2015 13:41:26

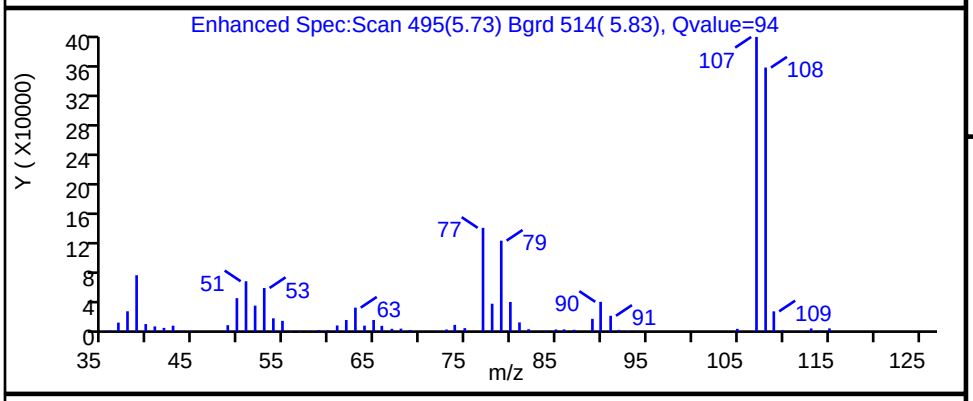
Shealy Environmental Services

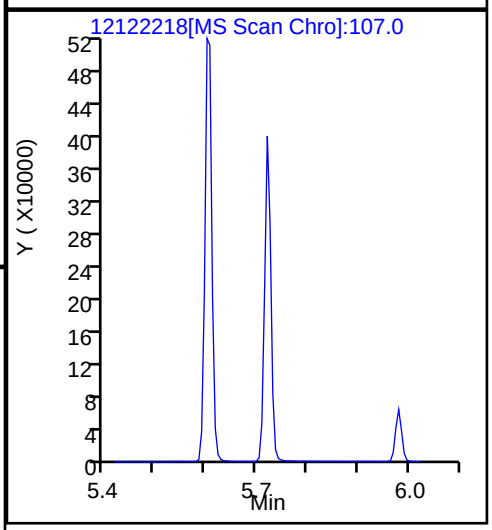
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122218.D		
Injection Date:	22-Dec-2015 17:40:30	Inst. ID:	msd12.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	12122215.b, QL16010-005		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

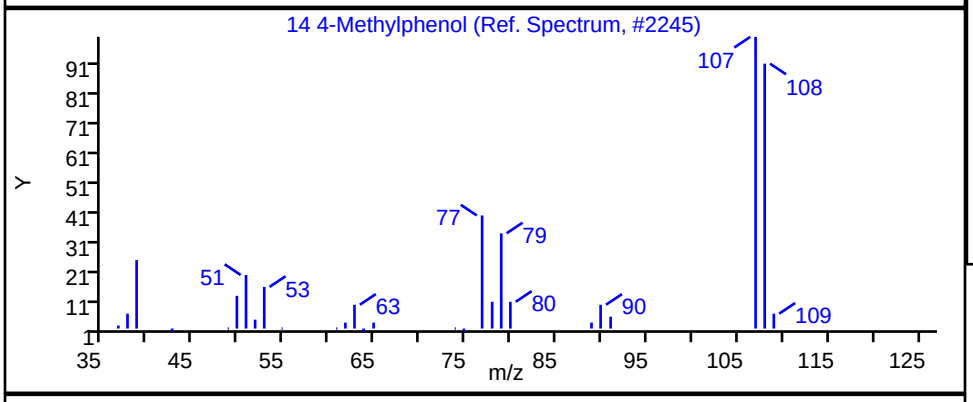
14 4-Methylphenol

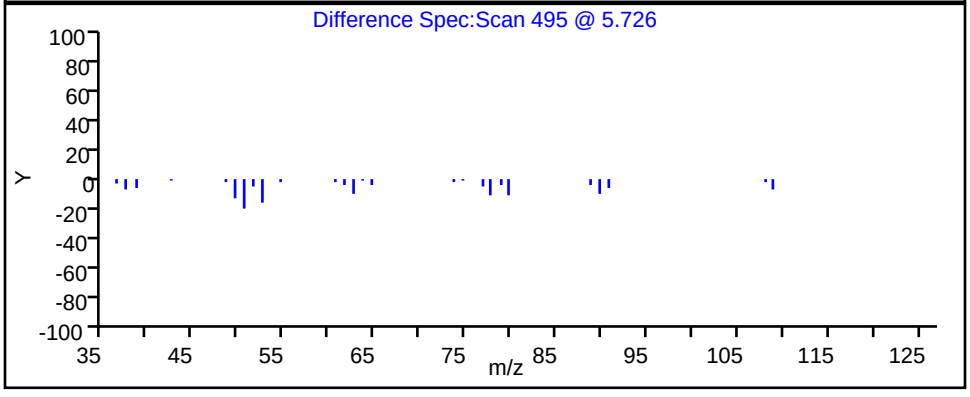










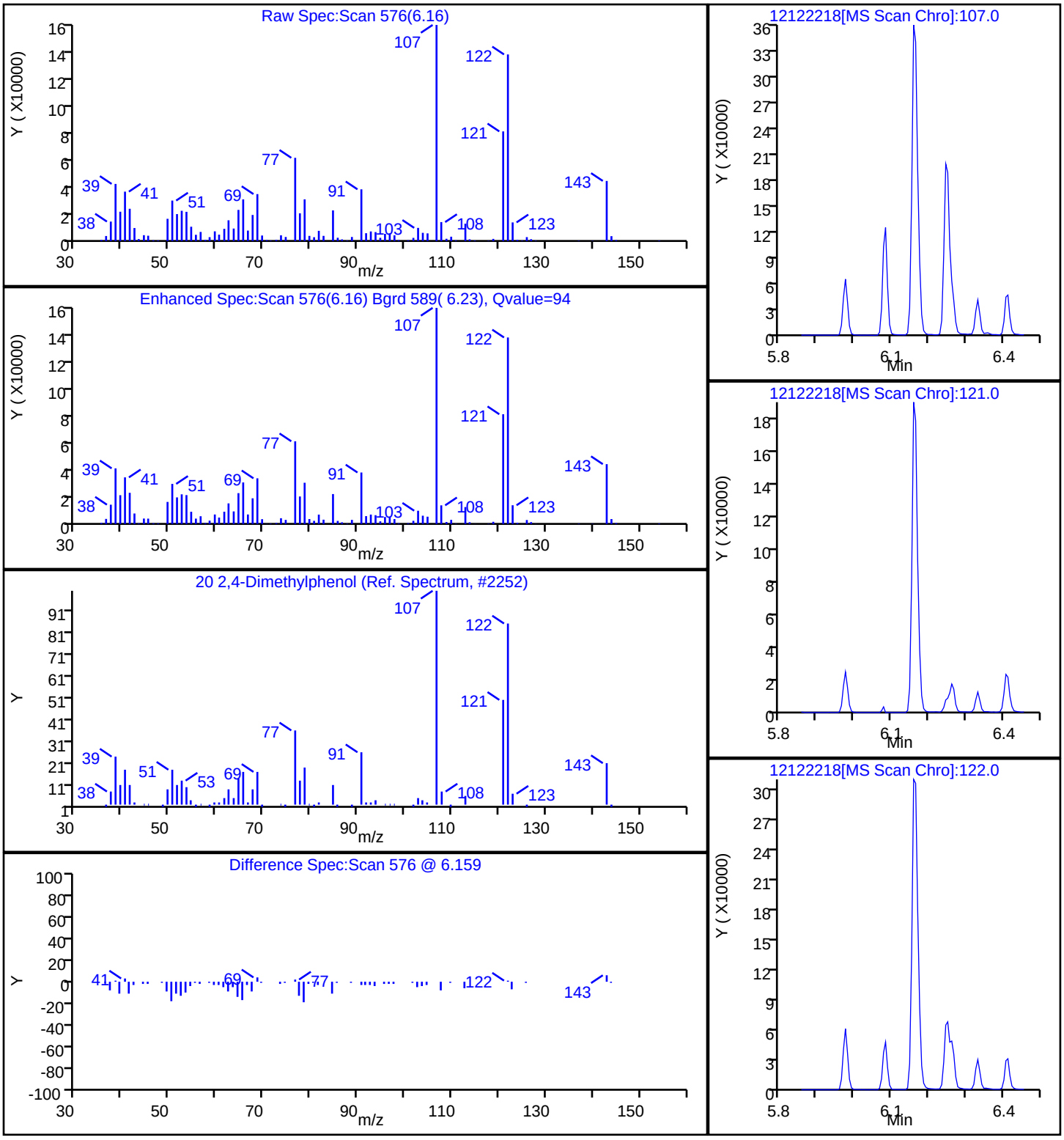


Report Date: 23-Dec-2015 09:58:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122218.D		
Injection Date:	22-Dec-2015 17:40:30	Inst. ID:	msd12.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	12122215.b, QL16010-005		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

20 2,4-Dimethylphenol



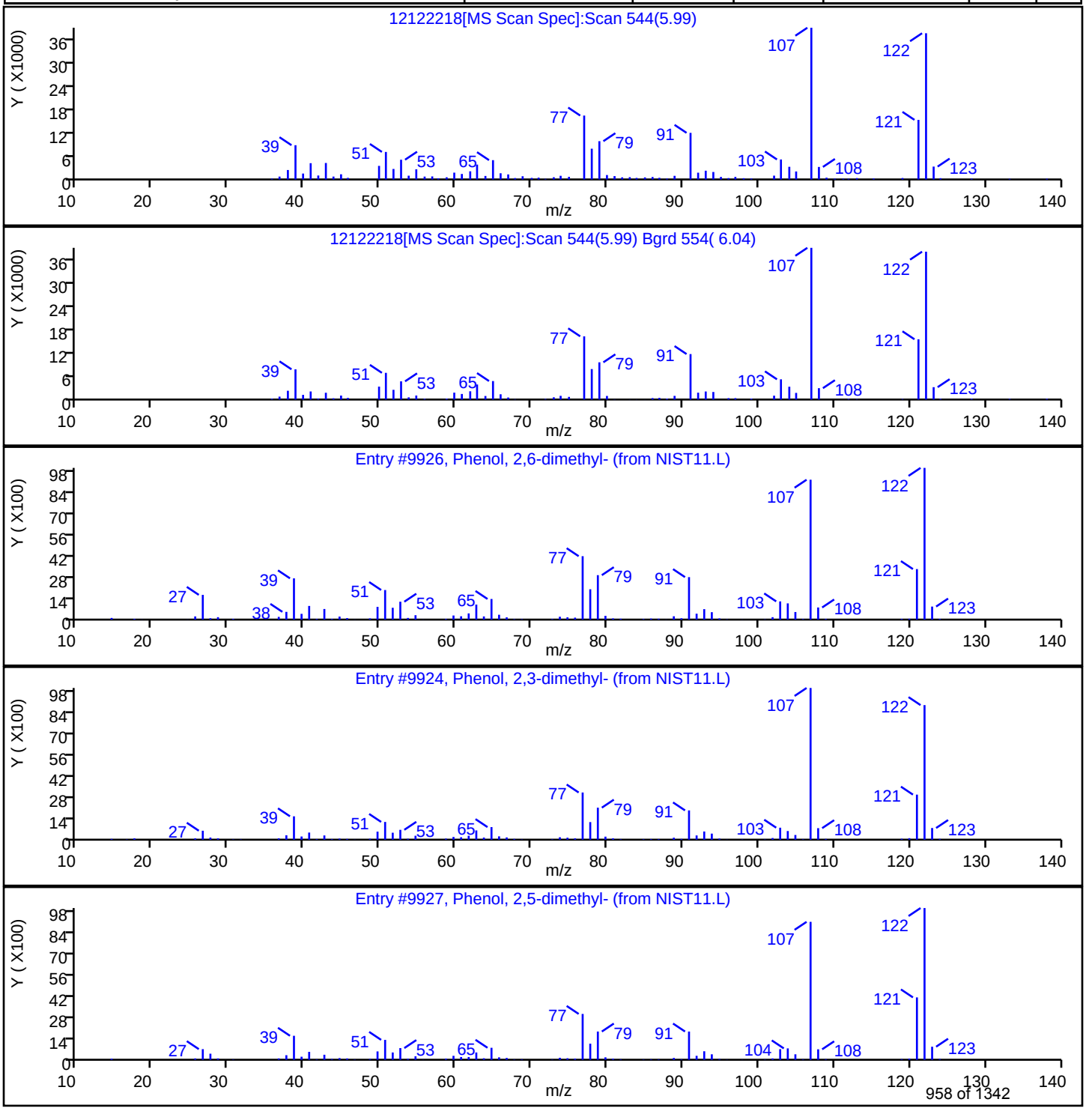
Report Date: 23-Dec-2015 09:58:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122218.D		
Injection Date:	22-Dec-2015 17:40:30	Inst. ID:	msd12.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	12122215.b, QL16010-005		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 5.983

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2,6-dimethyl-	576-26-1	NIST11	9926	C8H10O	122	98
Phenol, 2,3-dimethyl-	526-75-0	NIST11	9924	C8H10O	122	97
Phenol, 2,5-dimethyl-	95-87-4	NIST11	9927	C8H10O	122	96



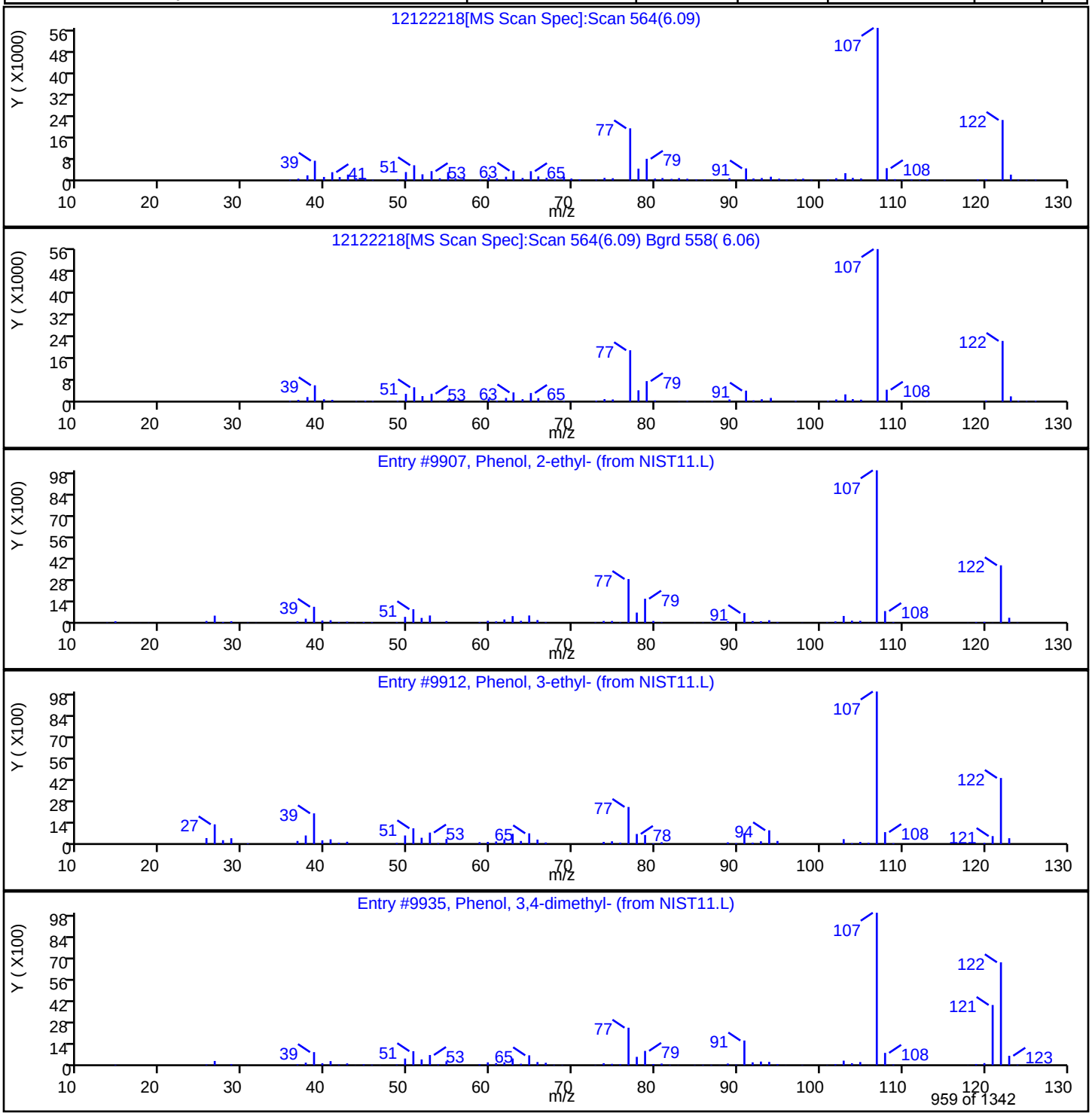
Report Date: 23-Dec-2015 09:58:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122218.D		
Injection Date:	22-Dec-2015 17:40:30	Inst. ID:	msd12.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	12122215.b, QL16010-005		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 6.089

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 2-ethyl-	90-00-6	NIST11	9907	C8H10O	122	95
Phenol, 3-ethyl-	620-17-7	NIST11	9912	C8H10O	122	91
Phenol, 3,4-dimethyl-	95-65-8	NIST11	9935	C8H10O	122	90



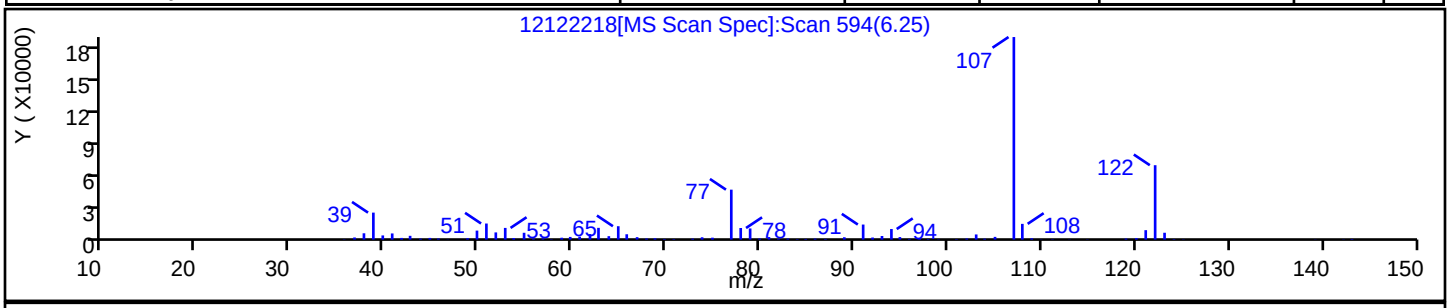
Report Date: 23-Dec-2015 09:58:06 AIM Revision: 1.0 26-May-2015 13:41:26

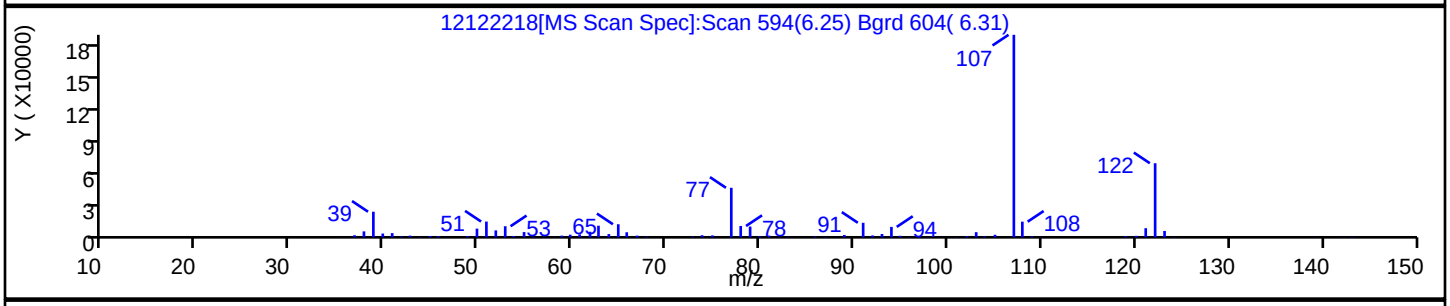
Shealy Environmental Services

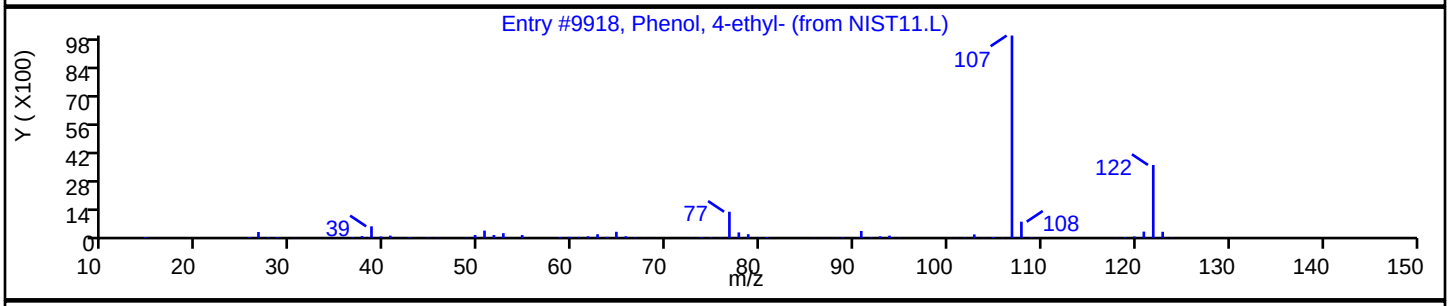
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122218.D		
Injection Date:	22-Dec-2015 17:40:30	Inst. ID:	msd12.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	12122215.b, QL16010-005		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

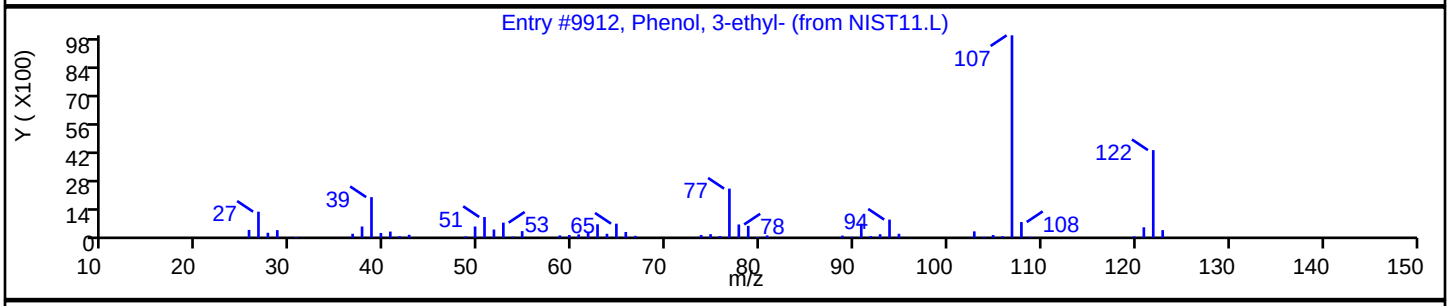
TIC @ 6.250

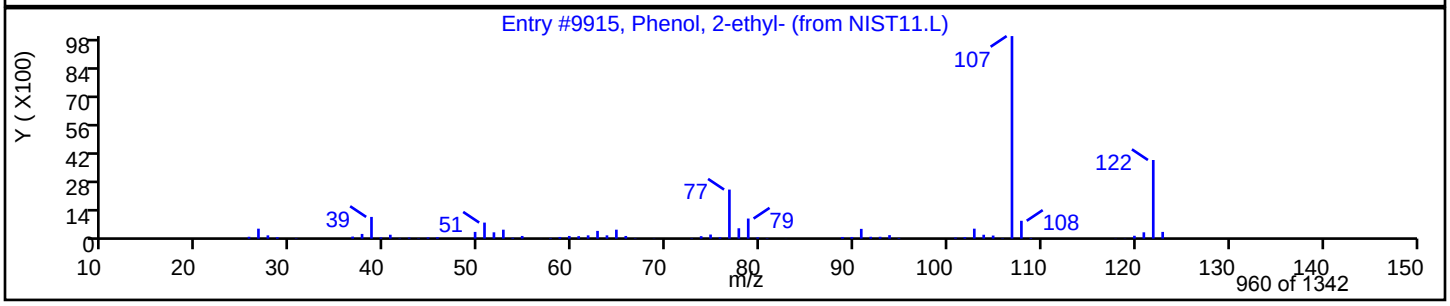
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phenol, 4-ethyl-	123-07-9	NIST11	9918	C8H10O	122	91
Phenol, 3-ethyl-	620-17-7	NIST11	9912	C8H10O	122	91
Phenol, 2-ethyl-	90-00-6	NIST11	9915	C8H10O	122	91











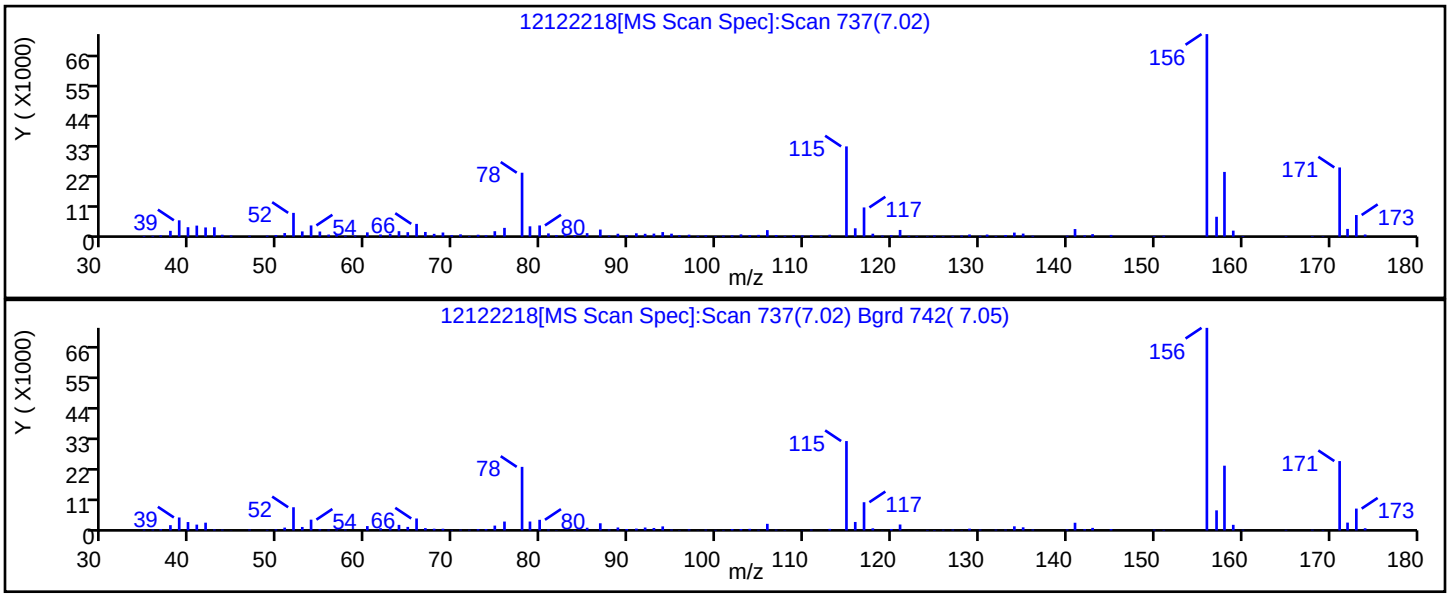
Report Date: 23-Dec-2015 09:58:06 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122218.D		
Injection Date:	22-Dec-2015 17:40:30	Inst. ID:	msd12.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	12122215.b, QL16010-005		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.014

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R35RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-005

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123108

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	1.9	U
100-52-7	Benzaldehyde	9.5	U
108-95-2	Phenol	9.5	U
111-44-4	Bis(2-Chloroethyl) ether	9.5	U
95-57-8	2-Chlorophenol	4.8	U
95-48-7	2-Methylphenol	9.5	U
108-60-1	2,2'-Oxybis(1-chloropropane)	9.5	U
98-86-2	Acetophenone	9.5	U
106-44-5	4-Methylphenol	9.5	U
621-64-7	N-Nitroso-di-n propylamine	4.8	U
67-72-1	Hexachloroethane	4.8	U
98-95-3	Nitrobenzene	4.8	U
78-59-1	Isophorone	4.8	U
88-75-5	2-Nitrophenol	4.8	U
105-67-9	2,4-Dimethylphenol	4.8	U
111-91-1	Bis(2-chloroethoxy)methane	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U
91-20-3	Naphthalene	4.8	U
106-47-8	4-Chloroaniline	9.5	U
87-68-3	Hexachlorobutadiene	4.8	U
105-60-2	Caprolactam	9.5	U
59-50-7	4-Chloro-3-methylphenol	4.8	U
91-57-6	2-Methylnaphthalene	4.8	U
77-47-4	Hexachlorocyclo-pentadiene	9.5	U
88-06-2	2,4,6-Trichlorophenol	4.8	U
95-95-4	2,4,5-Trichlorophenol	4.8	U
92-52-4	1,1'-Biphenyl	4.8	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R35RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-005

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123108

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	4.8	U
88-74-4	2-Nitroaniline	4.8	U
131-11-3	Dimethylphthalate	4.8	U
606-20-2	2,6-Dinitrotoluene	4.8	U
208-96-8	Acenaphthylene	4.8	U
99-09-2	3-Nitroaniline	9.5	U
83-32-9	Acenaphthene	4.8	U
51-28-5	2,4-Dinitrophenol	9.5	U
100-02-7	4-Nitrophenol	9.5	U
132-64-9	Dibenzofuran	4.8	U
121-14-2	2,4-Dinitrotoluene	4.8	U
84-66-2	Diethylphthalate	4.8	U
95-94-3	1,2,4,5-Tetrachlorobenzene	4.8	U
7005-72-3	4-Chlorophenyl-phenyl ether	4.8	U
86-73-7	Fluorene	4.8	U
100-01-6	4-Nitroaniline	9.5	U
534-52-1	4,6-Dinitro-2-methylphenol	9.5	U
101-55-3	4-Bromophenyl-phenylether	4.8	U
86-30-6	N-Nitrosodiphenylamine	4.8	U
118-74-1	Hexachlorobenzene	4.8	U
1912-24-9	Atrazine	9.5	U
87-86-5	Pentachlorophenol	9.5	U
85-01-8	Phenanthrene	4.8	U
120-12-7	Anthracene	4.8	U
86-74-8	Carbazole	9.5	U
84-74-2	Di-n-butylphthalate	4.8	U
206-44-0	Fluoranthene	9.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R35RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-005
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 12123108
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/23/2015
GC Column: ID: (mm)
Date Analyzed: 12/31/2015
Extract Concentrated: (Y/N)
Extract Volume: 1000 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: CLLE
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: 7 Dilution Factor: 1.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	4.8	U
85-68-7	Butylbenzylphthalate	4.8	U
91-94-1	3,3'-Dichlorobenzidine	9.5	U
56-55-3	Benzo(a)anthracene	4.8	U
218-01-9	Chrysene	4.8	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.8	U
117-84-0	Di-n-octylphthalate	9.5	U
205-99-2	Benzo(b)fluoranthene	4.8	U
207-08-9	Benzo(k)fluoranthene	4.8	U
50-32-8	Benzo(a)pyrene	4.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U
53-70-3	Dibenzo(a,h)anthracene	4.8	U
191-24-2	Benzo(g,h,i)perylene	4.8	U
58-90-2	2,3,4,6-Tetrachlorophenol	4.8	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R35RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-005
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 12123108
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/23/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/31/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 7 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.03	3.2	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123108.D		
Lab Sample ID:	QL16010-005	Client Sample ID:	F6R35RX
Injection Date:	31-Dec-2015 11:47:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QL16010-005		
Misc. Info:	92944		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	31-Dec-2015 12:11:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.133	5.133	0.000	891063	26.188	24.941	
108 1,4-Dioxane	88.0		3.322		ND			
$ 109 1,4-Dioxane-d8	96.0	3.301	3.301	0.000	50550	4.0617	3.8683	
4 Phenol	94.0		5.144		ND			
2 Benzaldehyde	77.0		5.138		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.187	5.192	-0.005	606295	26.418	25.160	
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	763075	33.897	32.282	
7 2-Chlorophenol	128.0		5.309		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	371476	20.000	19.048	
10 2-Methylphenol	108.0		5.619		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.641		ND			
$ 94 4-Methylphenol-d8	113.0	5.710	5.721	-0.011	700936	28.360	27.010	
14 4-Methylphenol	108.0		5.742		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.763		ND			
12 Acetophenone	105.0		5.779		ND			
15 Hexachloroethane	117.0		5.886		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.913	-0.005	389872	29.760	28.343	
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.175		ND			
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	416611	27.769	26.447	
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.244		ND			

Report Date: 04-Jan-2016 10:27:34 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123108.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.368	6.372	-0.004	553677	25.140	23.943	
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.512	6.511	0.001	1515356	20.000	19.048	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.538	6.543	-0.005	147282	4.4362	4.2250	e
25 4-Chloroaniline	127.0		6.533		ND			
26 Hexachlorobutadiene	225.0		6.602		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.933		ND			
29 2-Methylnaphthalene	142.0		7.099		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.323		ND			
32 2,4,5-Trichlorophenol	196.0		7.371		ND			
34 1,1'-Biphenyl	154.0		7.478		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.596		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.681	-0.005	1722827	32.840	31.276	
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.777		ND			
$ 99 Acenaphthylene-d8	160.0	7.863	7.868	-0.005	2176144	31.351	29.858	
38 Acenaphthylene	152.0		7.884		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.992	7.997	-0.005	803163	20.000	19.048	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.023		ND			
$ 100 4-Nitrophenol-d4	143.0	8.050	8.055	-0.005	298936	23.307	22.197	
44 4-Nitrophenol	109.0		8.061		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.167		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.258		ND			
47 Diethylphthalate	149.0		8.285		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.430	8.435	-0.005	1445640	29.370	27.972	
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.461		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.462	8.472	-0.010	292411	23.414	22.299	Q
51 4,6-Dinitro-2-methylphenol	198.0		8.483		ND			
52 N-Nitrosodiphenylamine	169.0		8.520		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.931		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.268	-0.005	1372118	20.000	19.048	
59 Phenanthrene	178.0		9.289		ND			
$ 103 Anthracene-d10	188.0	9.311	9.316	-0.005	1972249	28.194	26.851	
60 Anthracene	178.0		9.337		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.663		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2374848	38.670	36.828	

	Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
	64 Pyrene	202.0		10.657		ND			
	66 Butylbenzylphthalate	149.0		11.271		ND			
	71 bis(2-Ethylhexyl)phthalate	149.0		11.998		ND			
	68 3,3'-Dichlorobenzidine	252.0		12.067		ND			
	67 Benzo(a)anthracene	228.0		12.158		ND			
*	69 Chrysene-d12	240.0	12.169	12.179	-0.010	1407500	20.000	19.048	
	70 Chrysene	228.0		12.217		ND			
	72 Di-n-octylphthalate	149.0		12.981		ND			
	73 Benzo(b)fluoranthene	252.0		13.809		ND			
	74 Benzo(k)fluoranthene	252.0		13.857		ND			
$	105 Benzo(a)pyrene-d12	264.0	14.306	14.316	-0.010	959696	14.100	13.428	
	75 Benzo(a)pyrene	252.0		14.370		ND			
*	76 Perylene-d12	264.0	14.450	14.461	-0.011	1404090	20.000	19.048	
	77 Indeno(1,2,3-cd)pyrene	276.0		16.624		ND			
	78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
	79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123108.D		
Lab Sample ID:	QL16010-005	Client Sample ID:	F6R35RX
Injection Date:	31-Dec-2015 11:47:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QL16010-005		
Misc. Info:	92944		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	31-Dec-2015 12:11:30

Tentative Identified Compound Results

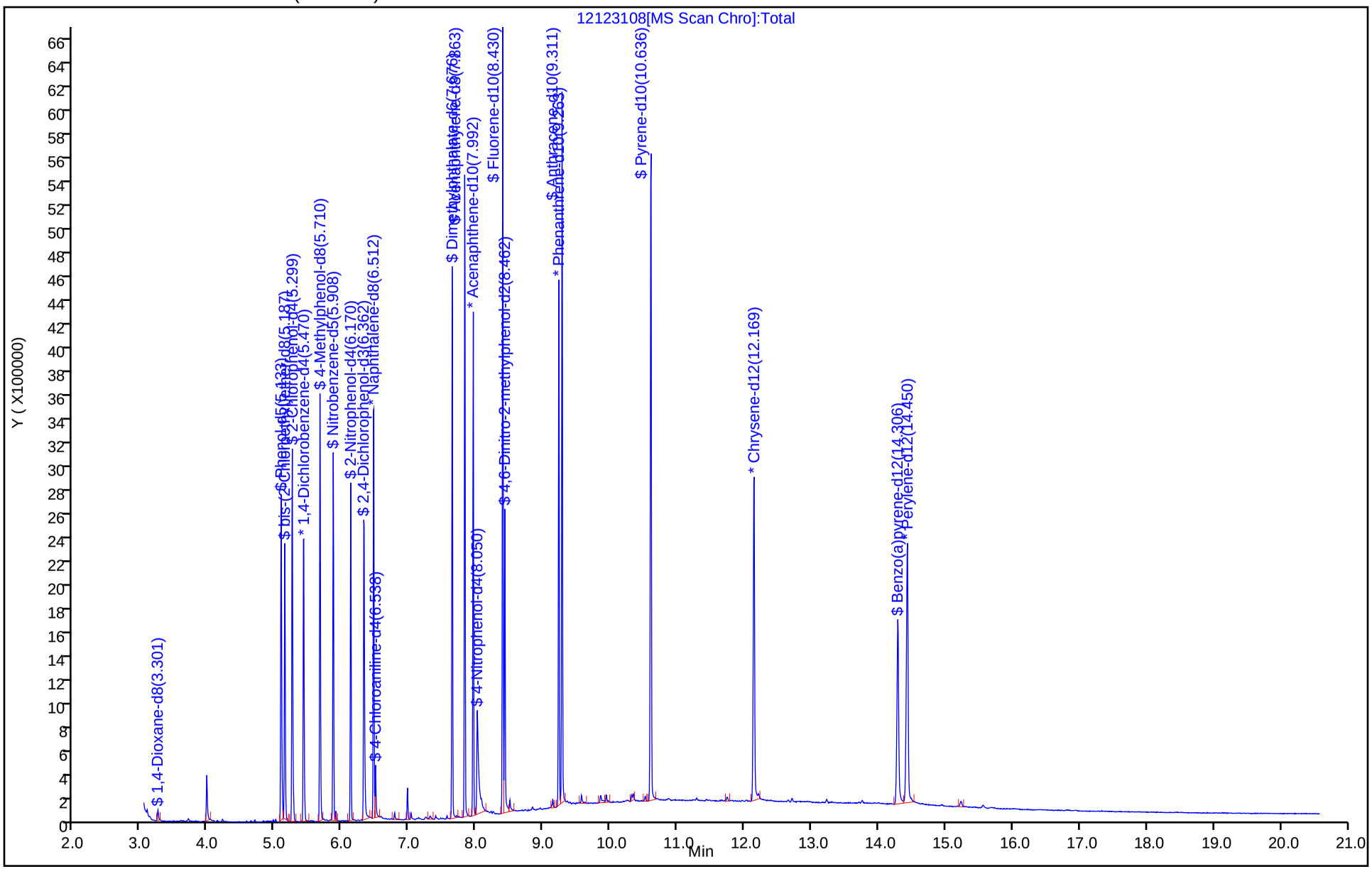
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
4.028	420685	3.3961	3.2344	8				

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.470	2477445	20.000

Report Date: 04-Jan-2016 10:27:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123108.D				
Injection Date:	31-Dec-2015 11:47:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R35RX	Lab ID:	QL16010-005		
Sample Info:	12123115.b, QL16010-005				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



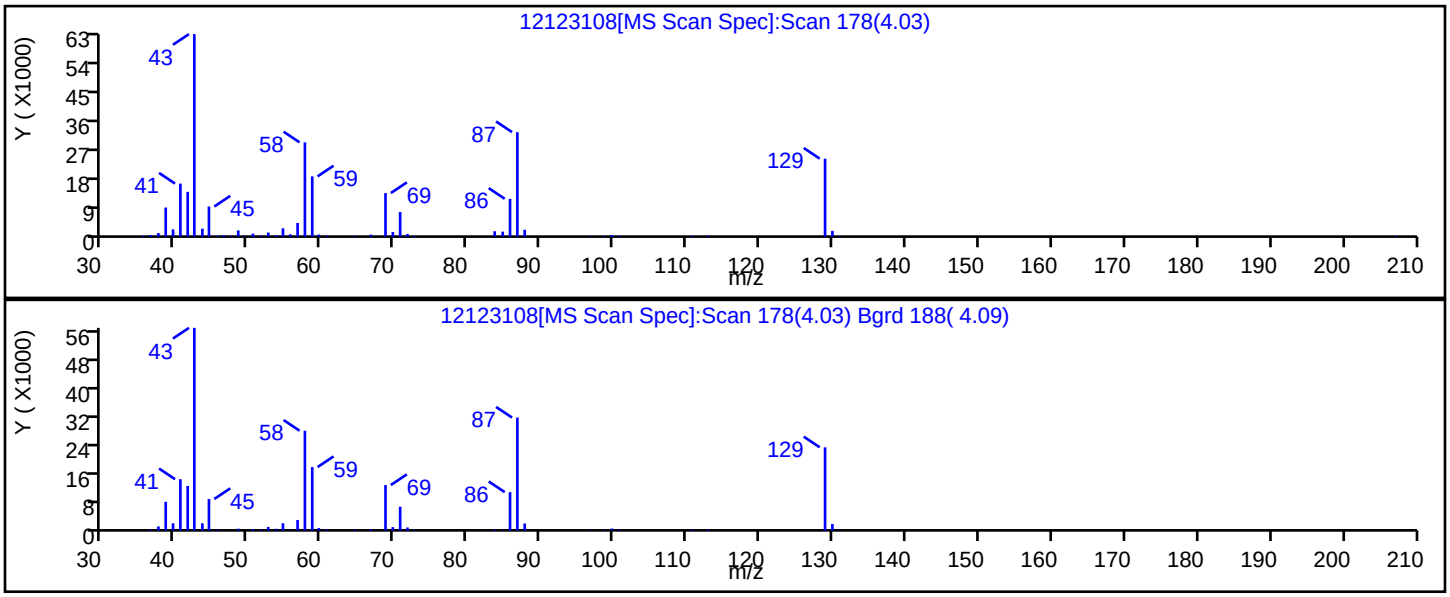
Report Date: 04-Jan-2016 10:27:34 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123108.D		
Injection Date:	31-Dec-2015 11:47:30	Inst. ID:	msd12.i
Client ID:	F6R35RX	Lab ID:	QL16010-005
Sample Info:	12123115.b, QL16010-005		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.028

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R36

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-006

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122219

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	1.9	U
100-52-7	Benzaldehyde	9.5	U
108-95-2	Phenol	0.56	JB
111-44-4	Bis(2-Chloroethyl) ether	9.5	U
95-57-8	2-Chlorophenol	4.8	U
95-48-7	2-Methylphenol	1.6	JB
108-60-1	2,2'-Oxybis(1-chloropropane)	9.5	U
98-86-2	Acetophenone	9.5	U
106-44-5	4-Methylphenol	0.84	JB
621-64-7	N-Nitroso-di-n propylamine	4.8	U
67-72-1	Hexachloroethane	4.8	U
98-95-3	Nitrobenzene	4.8	U
78-59-1	Isophorone	4.8	U
88-75-5	2-Nitrophenol	4.8	U
105-67-9	2,4-Dimethylphenol	4.8	U
111-91-1	Bis(2-chloroethoxy)methane	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U
91-20-3	Naphthalene	4.8	U
106-47-8	4-Chloroaniline	9.5	U
87-68-3	Hexachlorobutadiene	4.8	U
105-60-2	Caprolactam	9.5	U
59-50-7	4-Chloro-3-methylphenol	4.8	U
91-57-6	2-Methylnaphthalene	4.8	U
77-47-4	Hexachlorocyclo-pentadiene	9.5	U
88-06-2	2,4,6-Trichlorophenol	4.8	U
95-95-4	2,4,5-Trichlorophenol	4.8	U
92-52-4	1,1'-Biphenyl	4.8	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R36

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-006

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122219

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	4.8	U
88-74-4	2-Nitroaniline	4.8	U
131-11-3	Dimethylphthalate	4.8	U
606-20-2	2,6-Dinitrotoluene	4.8	U
208-96-8	Acenaphthylene	4.8	U
99-09-2	3-Nitroaniline	9.5	U
83-32-9	Acenaphthene	4.8	U
51-28-5	2,4-Dinitrophenol	9.5	U
100-02-7	4-Nitrophenol	9.5	U
132-64-9	Dibenzofuran	4.8	U
121-14-2	2,4-Dinitrotoluene	4.8	U
84-66-2	Diethylphthalate	4.8	U
95-94-3	1,2,4,5-Tetrachlorobenzene	4.8	U
7005-72-3	4-Chlorophenyl-phenyl ether	4.8	U
86-73-7	Fluorene	4.8	U
100-01-6	4-Nitroaniline	9.5	U
534-52-1	4,6-Dinitro-2-methylphenol	9.5	U
101-55-3	4-Bromophenyl-phenylether	4.8	U
86-30-6	N-Nitrosodiphenylamine	4.8	U
118-74-1	Hexachlorobenzene	4.8	U
1912-24-9	Atrazine	9.5	U
87-86-5	Pentachlorophenol	9.5	U
85-01-8	Phenanthrene	4.8	U
120-12-7	Anthracene	4.8	U
86-74-8	Carbazole	9.5	U
84-74-2	Di-n-butylphthalate	4.8	U
206-44-0	Fluoranthene	9.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R36

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-006

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12122219

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/22/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	4.8	U
85-68-7	Butylbenzylphthalate	4.8	U
91-94-1	3,3'-Dichlorobenzidine	9.5	U
56-55-3	Benzo(a)anthracene	4.8	U
218-01-9	Chrysene	4.8	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.8	U
117-84-0	Di-n-octylphthalate	9.5	U
205-99-2	Benzo(b)fluoranthene	4.8	U
207-08-9	Benzo(k)fluoranthene	4.8	U
50-32-8	Benzo(a)pyrene	4.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U
53-70-3	Dibenzo(a,h)anthracene	4.8	U
191-24-2	Benzo(g,h,i)perylene	4.8	U
58-90-2	2,3,4,6-Tetrachlorophenol	4.8	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R36

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-006
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 12122219
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/22/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 7 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	112-79-8	9-Octadecenoic acid, (E)-	10.28	3.9	NJ
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122219.D		
Lab Sample ID:	QL16010-006	Client Sample ID:	F6R36
Injection Date:	22-Dec-2015 18:08:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-006		
Misc. Info:	92747		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	16
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 09:52:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	909466	26.514	25.252	
108 1,4-Dioxane	88.0		3.344		ND			
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	45067	3.5921	3.4211	
4 Phenol	94.0	5.133	5.134	-0.001	21830	0.58576	0.55787	Qe
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	589375	25.475	24.262	
5 bis(2-Chloroethyl)Ether	93.0		5.230		ND			
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	726179	31.999	30.475	
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	374477	20.000	19.048	
10 2-Methylphenol	108.0	5.609	5.614	-0.005	43084	1.7086	1.6273	e
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.705	5.710	-0.005	724828	29.092	27.706	Q
14 4-Methylphenol	108.0	5.726	5.732	-0.006	24034	0.87856	0.83673	e
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	379242	28.339	26.990	
17 Nitrobenzene	77.0		5.930		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.170		ND			
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	402784	26.283	25.031	
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			

Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122219.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.368	-0.006	620337	27.574	26.261	
22 2,4-Dichlorophenol	162.0		6.373		ND			
* 23 Naphthalene-d8	136.0	6.512	6.517	-0.005	1547924	20.000	19.048	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.538	6.544	-0.006	470188	13.864	13.204	
25 4-Chloroaniline	127.0		6.549		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.859		ND			
28 4-Chloro-3-methylphenol	107.0		6.918		ND			
29 2-Methylnaphthalene	142.0		7.105		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.522		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.682	7.687	-0.005	1711721	31.637	30.130	
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.869	7.869	0.000	2195883	30.674	29.213	
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.991	7.997	-0.006	828338	20.000	19.048	
43 2,4-Dinitrophenol	184.0		8.018		ND			
42 Acenaphthene	153.0		8.024		ND			
$ 100 4-Nitrophenol-d4	143.0	8.029	8.034	-0.005	343695	25.982	24.745	Q
44 4-Nitrophenol	109.0		8.040		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1472063	28.998	27.617	
50 4-Nitroaniline	138.0		8.467		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.462	8.472	-0.010	315259	23.968	22.827	Q
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.943		ND			
57 Pentachlorophenol	266.0		9.087		ND			
* 58 Phenanthrene-d10	188.0	9.268	9.268	0.000	1445144	20.000	19.048	
59 Phenanthrene	178.0		9.290		ND			
$ 103 Anthracene-d10	188.0	9.316	9.316	0.000	2109974	28.638	27.275	
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.664		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2428088	33.317	31.730	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
64 Pyrene	202.0		10.663		ND			
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.004		ND			
68 3,3'-Dichlorobenzidine	252.0		12.068		ND			
67 Benzo(a)anthracene	228.0		12.159		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1670255	20.000	19.048	
70 Chrysene	228.0		12.217		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.852		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.311	14.317	-0.006	1052760	13.063	12.441	
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.456	14.461	-0.005	1662429	20.000	19.048	
77 Indeno(1,2,3-cd)pyrene	276.0		16.619		ND			
78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122219.D		
Lab Sample ID:	QL16010-006	Client Sample ID:	F6R36
Injection Date:	22-Dec-2015 18:08:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, QL16010-006		
Misc. Info:	92747		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	16
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 09:52:30

Tentative Identified Compound Results

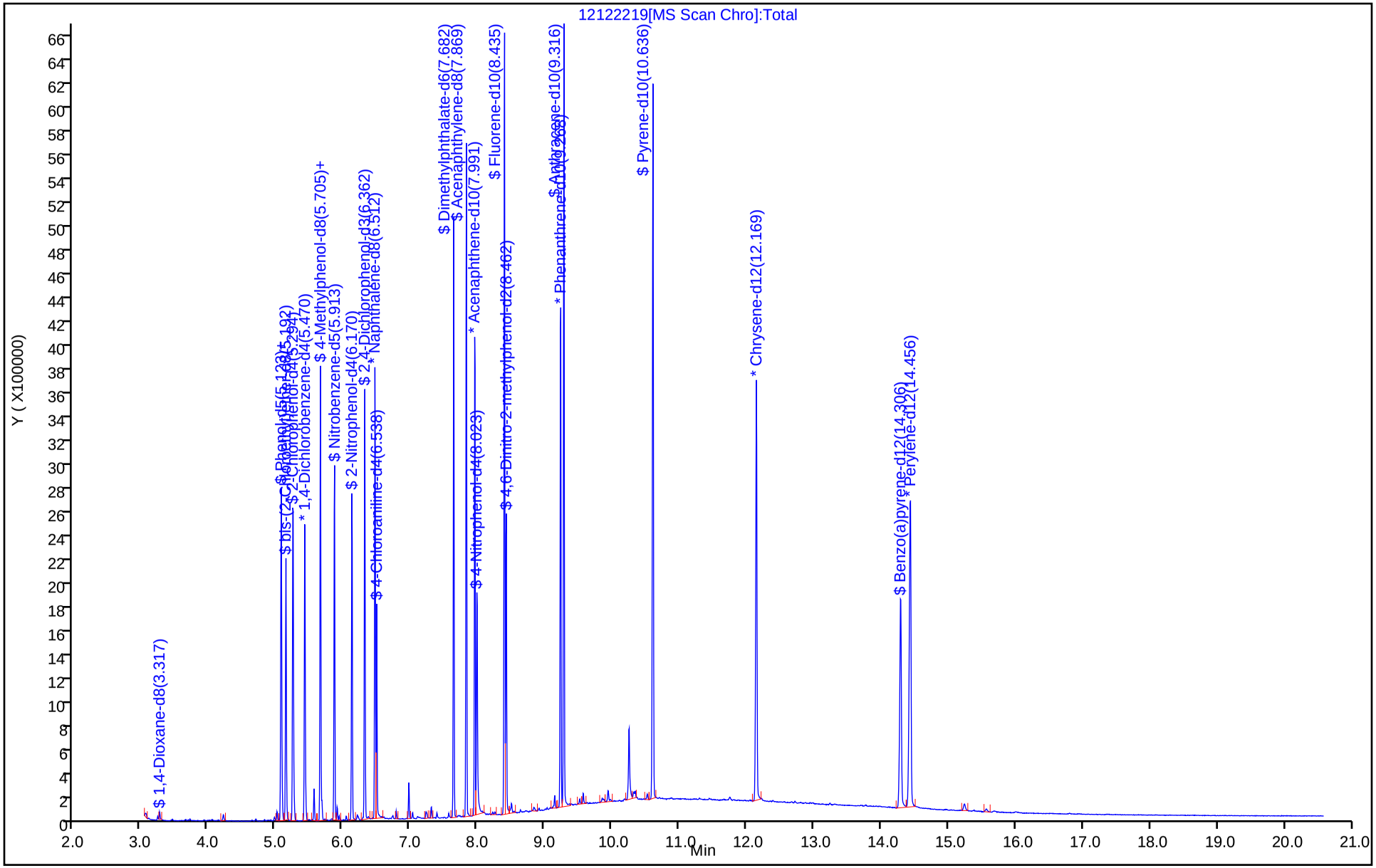
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
112-79-8	9-Octadecenoic acid, (E)-							
10.283	816967	4.1287	3.9321	58	99	129353	C18H34O2	282

Quant. Compounds	RT	Response	Amount ng/ul
* 58 Phenanthrene-d10	9.268	3957481	20.000

Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122219.D				
Injection Date:	22-Dec-2015 18:08:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R36	Lab ID:	QL16010-006		
Sample Info:	12122215.b, QL16010-006				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

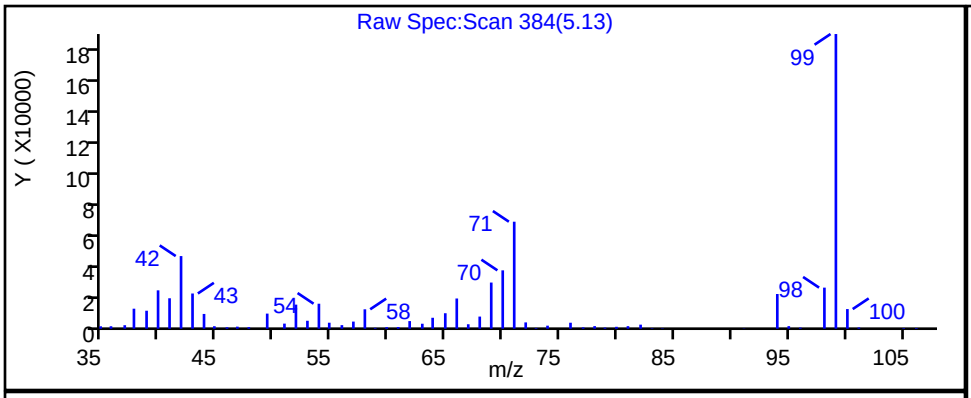


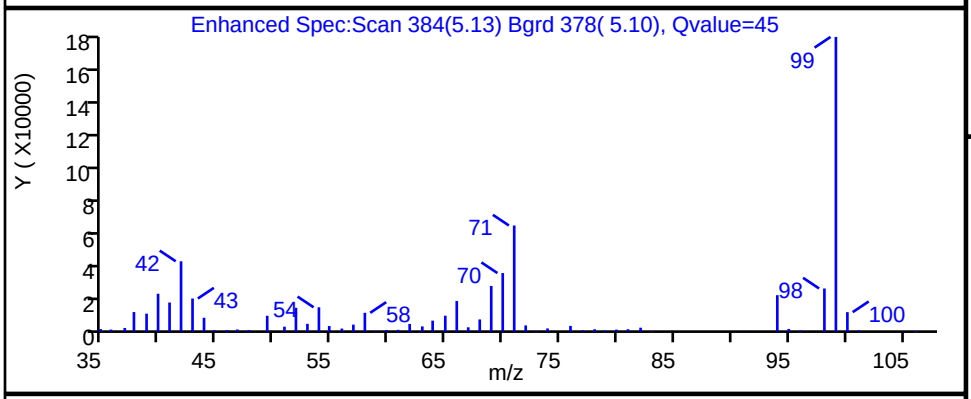
Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

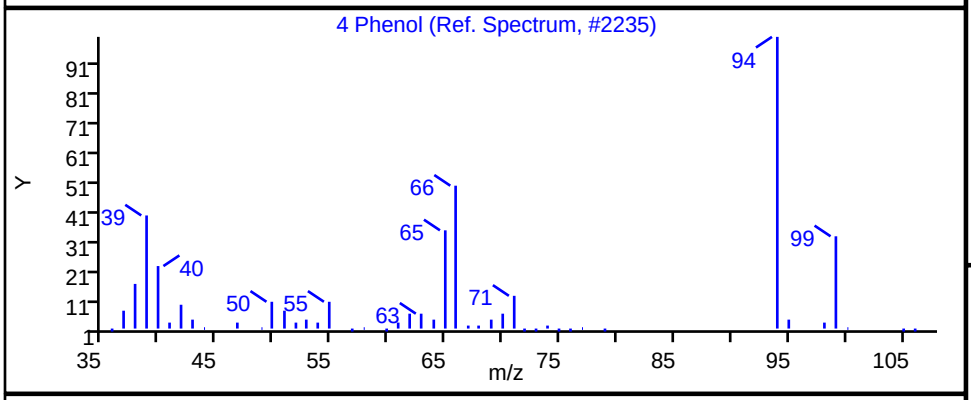
Shealy Environmental Services

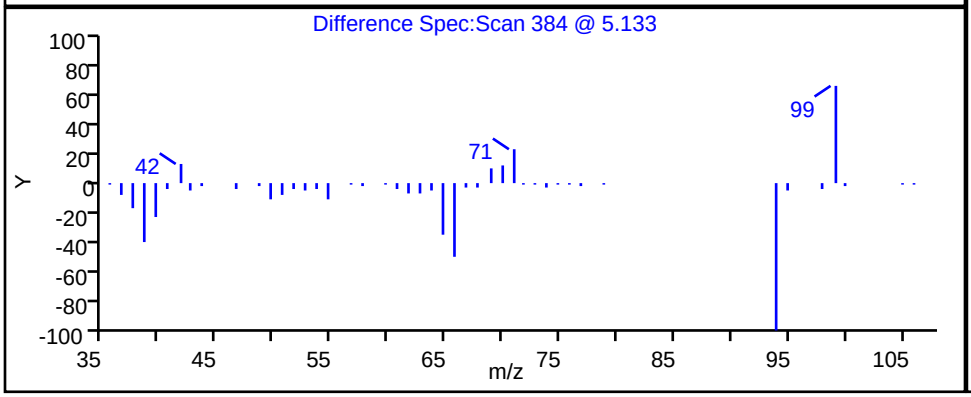
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122219.D		
Injection Date:	22-Dec-2015 18:08:30	Inst. ID:	msd12.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	12122215.b, QL16010-006		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

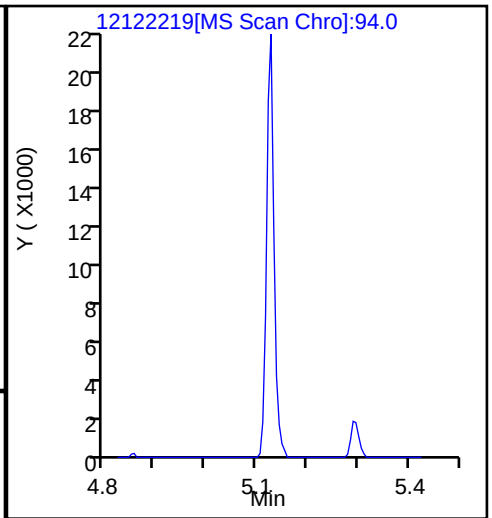
4 Phenol

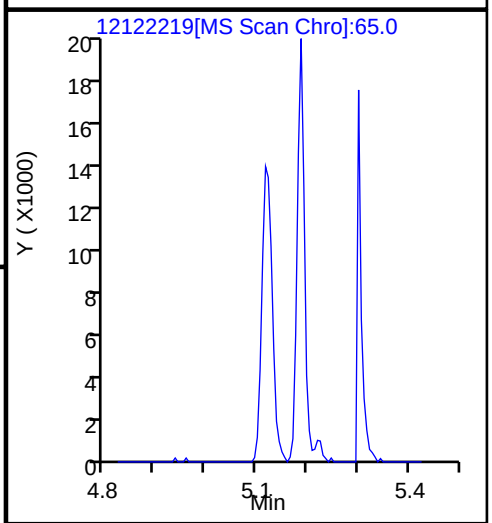


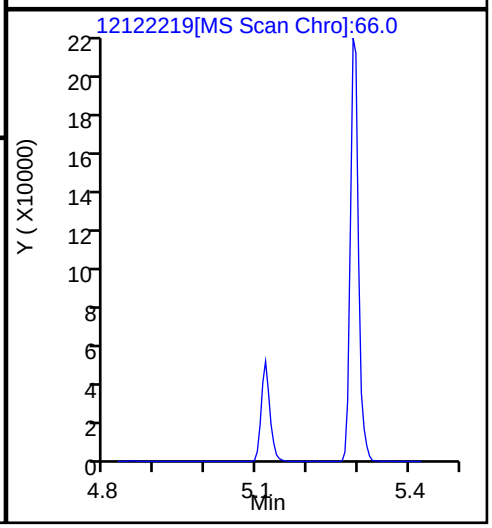










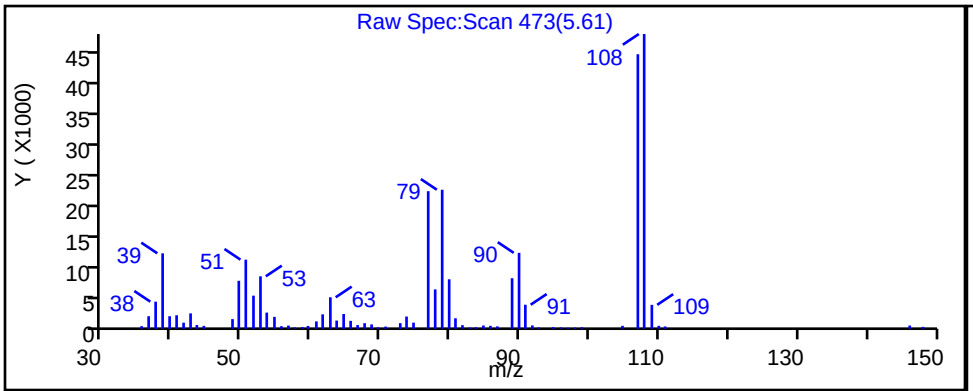


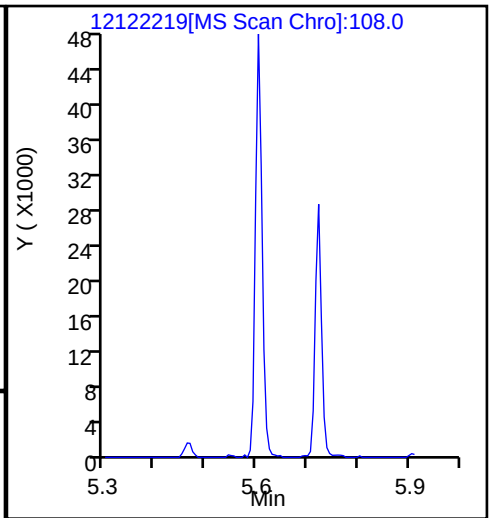
Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

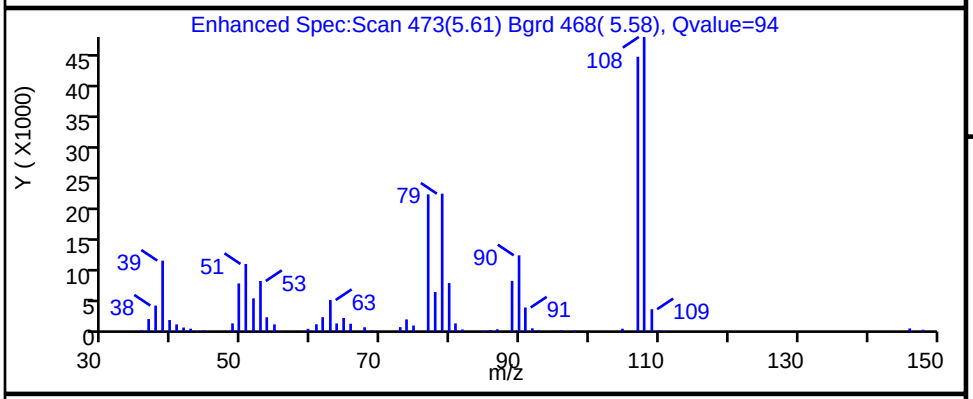
Shealy Environmental Services

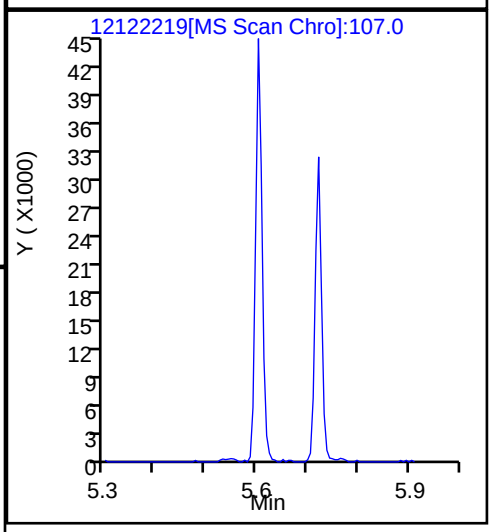
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122219.D		
Injection Date:	22-Dec-2015 18:08:30	Inst. ID:	msd12.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	12122215.b, QL16010-006		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

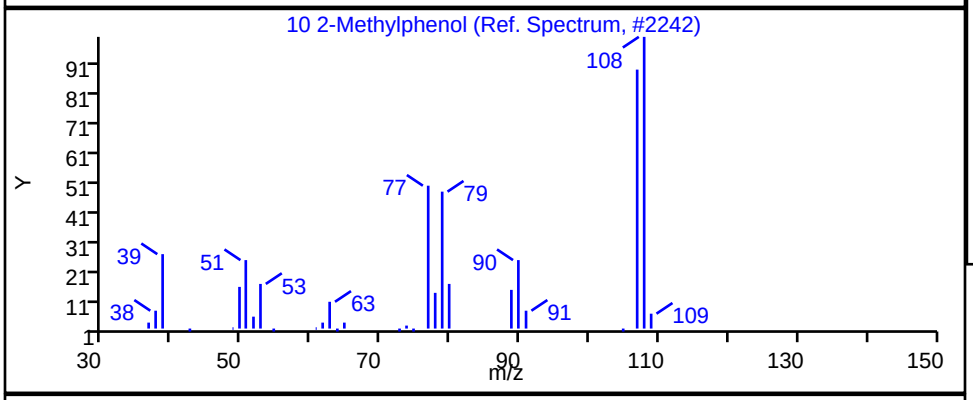
10 2-Methylphenol

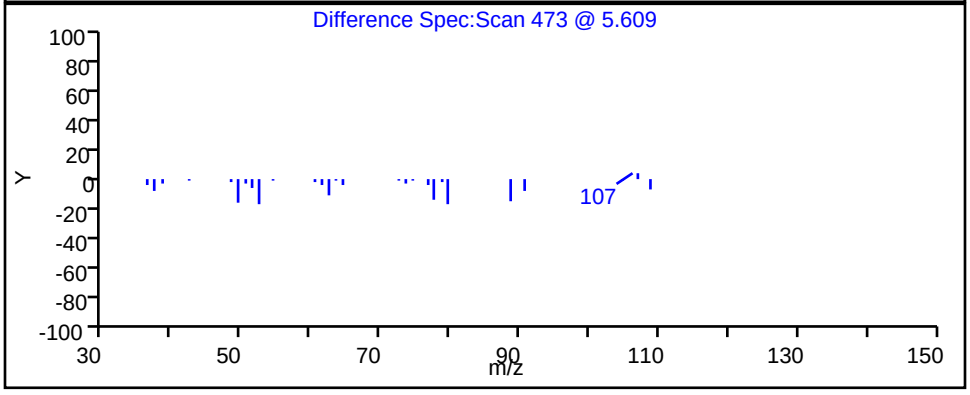










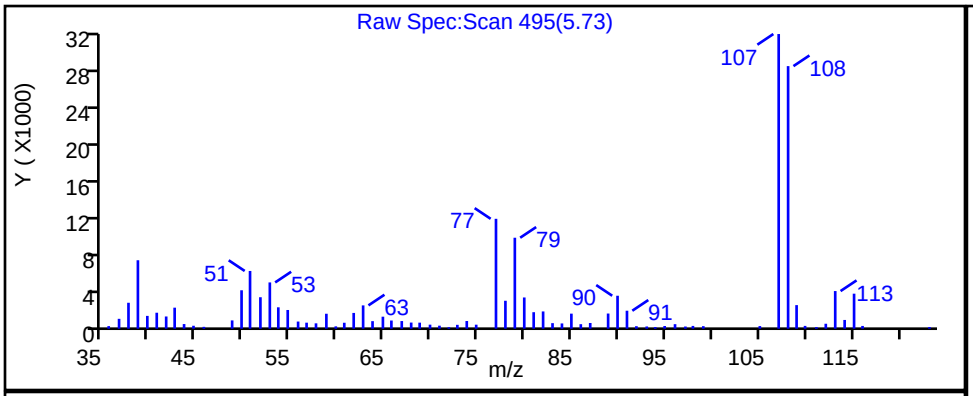


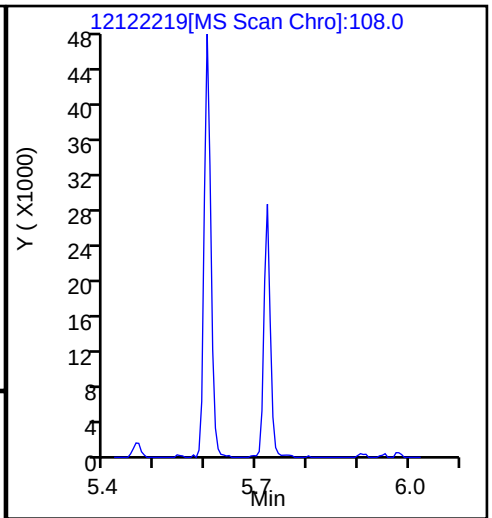
Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

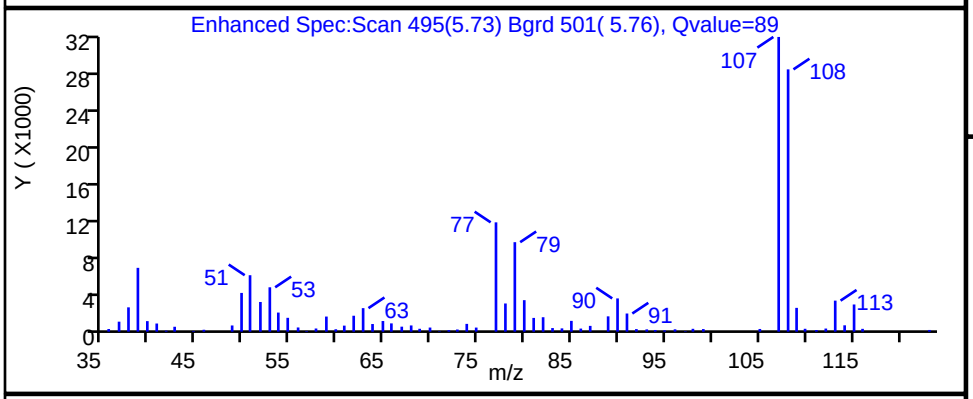
Shealy Environmental Services

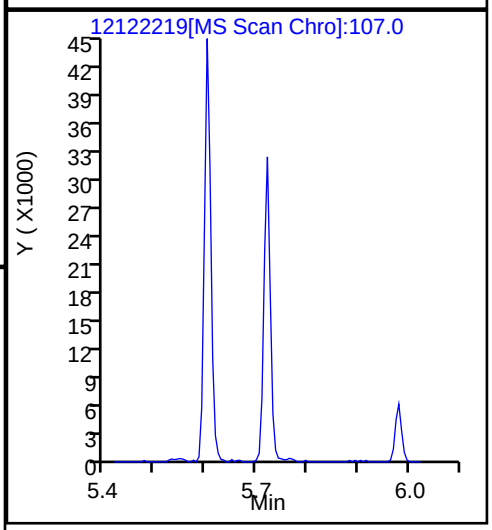
Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122219.D		
Injection Date:	22-Dec-2015 18:08:30	Inst. ID:	msd12.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	12122215.b, QL16010-006		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

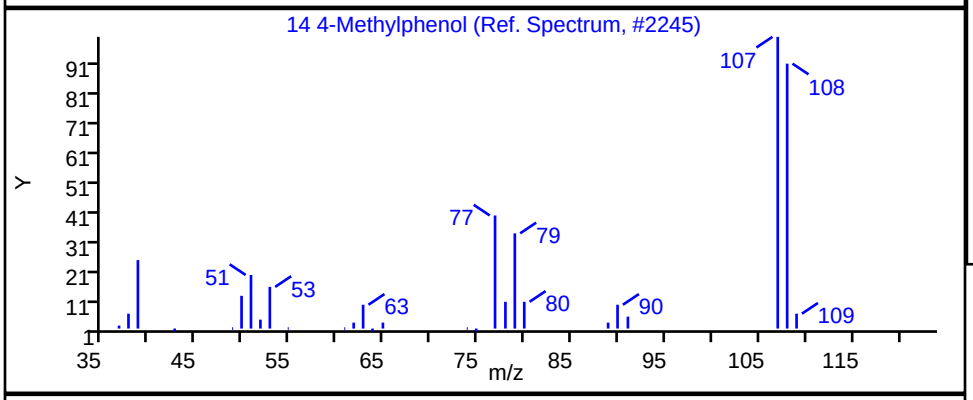
14 4-Methylphenol

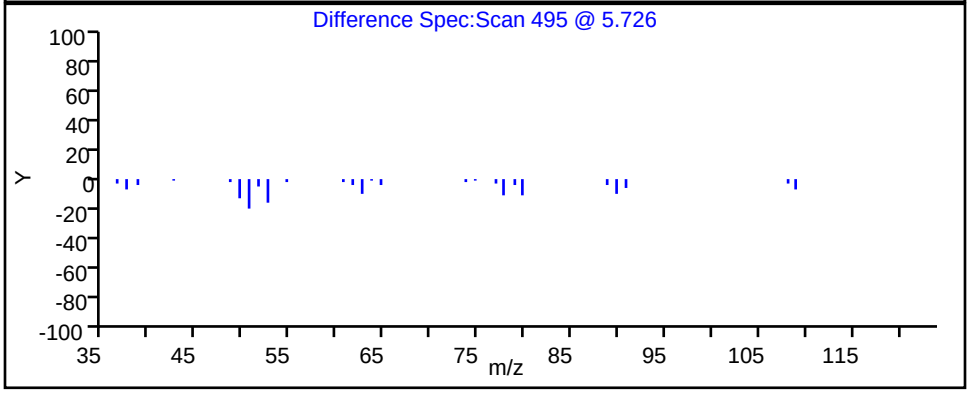












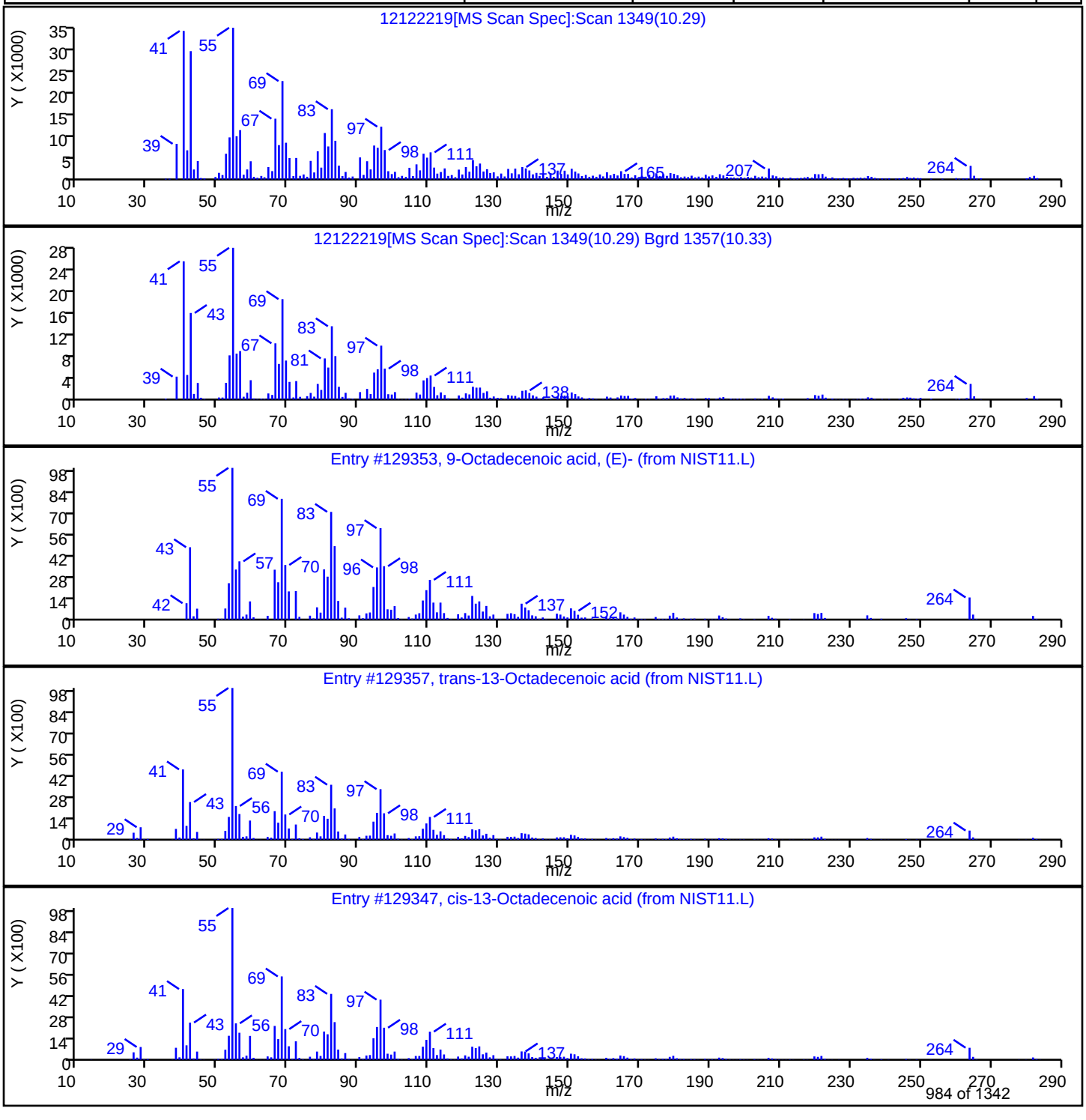
Report Date: 23-Dec-2015 09:58:07 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122219.D		
Injection Date:	22-Dec-2015 18:08:30	Inst. ID:	msd12.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	12122215.b, QL16010-006		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 10.283

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
9-Octadecenoic acid, (E)-	112-79-8	NIST11	129353	C18H34O2	282	99
trans-13-Octadecenoic acid	693-71-0	NIST11	129357	C18H34O2	282	99
cis-13-Octadecenoic acid	13126-39-1	NIST11	129347	C18H34O2	282	99



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R36RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-006

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123109

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	1.9	U
100-52-7	Benzaldehyde	9.5	U
108-95-2	Phenol	9.5	U
111-44-4	Bis(2-Chloroethyl) ether	9.5	U
95-57-8	2-Chlorophenol	4.8	U
95-48-7	2-Methylphenol	9.5	U
108-60-1	2,2'-Oxybis(1-chloropropane)	9.5	U
98-86-2	Acetophenone	9.5	U
106-44-5	4-Methylphenol	9.5	U
621-64-7	N-Nitroso-di-n propylamine	4.8	U
67-72-1	Hexachloroethane	4.8	U
98-95-3	Nitrobenzene	4.8	U
78-59-1	Isophorone	4.8	U
88-75-5	2-Nitrophenol	4.8	U
105-67-9	2,4-Dimethylphenol	4.8	U
111-91-1	Bis(2-chloroethoxy)methane	4.8	U
120-83-2	2,4-Dichlorophenol	4.8	U
91-20-3	Naphthalene	4.8	U
106-47-8	4-Chloroaniline	9.5	U
87-68-3	Hexachlorobutadiene	4.8	U
105-60-2	Caprolactam	9.5	U
59-50-7	4-Chloro-3-methylphenol	4.8	U
91-57-6	2-Methylnaphthalene	4.8	U
77-47-4	Hexachlorocyclo-pentadiene	9.5	U
88-06-2	2,4,6-Trichlorophenol	4.8	U
95-95-4	2,4,5-Trichlorophenol	4.8	U
92-52-4	1,1'-Biphenyl	4.8	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R36RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-006

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123109

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	4.8	U
88-74-4	2-Nitroaniline	4.8	U
131-11-3	Dimethylphthalate	4.8	U
606-20-2	2,6-Dinitrotoluene	4.8	U
208-96-8	Acenaphthylene	4.8	U
99-09-2	3-Nitroaniline	9.5	U
83-32-9	Acenaphthene	4.8	U
51-28-5	2,4-Dinitrophenol	9.5	U
100-02-7	4-Nitrophenol	9.5	U
132-64-9	Dibenzofuran	4.8	U
121-14-2	2,4-Dinitrotoluene	4.8	U
84-66-2	Diethylphthalate	4.8	U
95-94-3	1,2,4,5-Tetrachlorobenzene	4.8	U
7005-72-3	4-Chlorophenyl-phenyl ether	4.8	U
86-73-7	Fluorene	4.8	U
100-01-6	4-Nitroaniline	9.5	U
534-52-1	4,6-Dinitro-2-methylphenol	9.5	U
101-55-3	4-Bromophenyl-phenylether	4.8	U
86-30-6	N-Nitrosodiphenylamine	4.8	U
118-74-1	Hexachlorobenzene	4.8	U
1912-24-9	Atrazine	9.5	U
87-86-5	Pentachlorophenol	9.5	U
85-01-8	Phenanthrene	4.8	U
120-12-7	Anthracene	4.8	U
86-74-8	Carbazole	9.5	U
84-74-2	Di-n-butylphthalate	4.8	U
206-44-0	Fluoranthene	9.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R36RX

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QL16010-006

Sample wt/vol: 1050 (g/mL) mL Lab File ID: 12123109

% Solids: _____ Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: 7 Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	4.8	U
85-68-7	Butylbenzylphthalate	4.8	U
91-94-1	3,3'-Dichlorobenzidine	9.5	U
56-55-3	Benzo(a)anthracene	4.8	U
218-01-9	Chrysene	4.8	U
117-81-7	Bis(2-ethylhexyl)phthalate	4.8	U
117-84-0	Di-n-octylphthalate	9.5	U
205-99-2	Benzo(b)fluoranthene	4.8	U
207-08-9	Benzo(k)fluoranthene	4.8	U
50-32-8	Benzo(a)pyrene	4.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	U
53-70-3	Dibenzo(a,h)anthracene	4.8	U
191-24-2	Benzo(g,h,i)perylene	4.8	U
58-90-2	2,3,4,6-Tetrachlorophenol	4.8	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
F6R36RX

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-006
Sample wt/vol: 1050 (g/mL) mL
Lab File ID: 12123109
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/23/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/31/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: 7 Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.03	3.6	J
02		Unknown-02	7.01	2.0	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Report Date: 04-Jan-2016 10:27:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123109.D		
Lab Sample ID:	QL16010-006	Client Sample ID:	F6R36RX
Injection Date:	31-Dec-2015 12:15:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QL16010-006		
Misc. Info:	92944		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	6
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	31-Dec-2015 13:07:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.133	5.133	0.000	891255	25.801	24.572	
108 1,4-Dioxane	88.0		3.322		ND			
$ 109 1,4-Dioxane-d8	96.0	3.295	3.301	-0.006	50617	4.0061	3.8153	
4 Phenol	94.0		5.144		ND			
2 Benzaldehyde	77.0		5.138		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.187	5.192	-0.005	624127	26.787	25.512	
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	778734	34.073	32.451	
7 2-Chlorophenol	128.0		5.309		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	377133	20.000	19.048	
10 2-Methylphenol	108.0		5.619		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.641		ND			
$ 94 4-Methylphenol-d8	113.0	5.710	5.721	-0.011	693830	27.651	26.335	
14 4-Methylphenol	108.0		5.742		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.763		ND			
12 Acetophenone	105.0		5.779		ND			
15 Hexachloroethane	117.0		5.886		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.913	-0.005	394026	29.515	28.110	
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.175		ND			
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	419288	27.426	26.120	
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.244		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.367	6.372	-0.005	558006	24.864	23.680	
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.511	6.511	0.000	1544182	20.000	19.048	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.538	6.543	-0.005	67870	2.0061	1.9106	e
25 4-Chloroaniline	127.0		6.533		ND			
26 Hexachlorobutadiene	225.0		6.602		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.933		ND			
29 2-Methylnaphthalene	142.0		7.099		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.323		ND			
32 2,4,5-Trichlorophenol	196.0		7.371		ND			
34 1,1'-Biphenyl	154.0		7.478		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.596		ND			
$ 98 Dimethylphthalate-d6	166.0	7.681	7.681	0.000	1731890	32.225	30.691	
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.777		ND			
$ 99 Acenaphthylene-d8	160.0	7.863	7.868	-0.005	2175286	30.590	29.134	
38 Acenaphthylene	152.0		7.884		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.991	7.997	-0.006	822802	20.000	19.048	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.023		ND			
$ 100 4-Nitrophenol-d4	143.0	8.050	8.055	-0.005	301491	22.945	21.852	Q
44 4-Nitrophenol	109.0		8.061		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.167		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.258		ND			
47 Diethylphthalate	149.0		8.285		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.429	8.435	-0.006	1461206	28.978	27.598	
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.461		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.461	8.472	-0.011	297919	23.304	22.194	Q
51 4,6-Dinitro-2-methylphenol	198.0		8.483		ND			
52 N-Nitrosodiphenylamine	169.0		8.520		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.931		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.268	-0.005	1404574	20.000	19.048	
59 Phenanthrene	178.0		9.289		ND			
$ 103 Anthracene-d10	188.0	9.311	9.316	-0.005	1930530	26.960	25.676	
60 Anthracene	178.0		9.337		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.663		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2286944	35.341	33.658	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
64 Pyrene	202.0		10.657		ND			
66 Butylbenzylphthalate	149.0		11.271		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		11.998		ND			
68 3,3'-Dichlorobenzidine	252.0		12.067		ND			
67 Benzo(a)anthracene	228.0		12.158		ND			
* 69 Chrysene-d12	240.0	12.169	12.179	-0.010	1483062	20.000	19.048	
70 Chrysene	228.0		12.217		ND			
72 Di-n-octylphthalate	149.0		12.981		ND			
73 Benzo(b)fluoranthene	252.0		13.809		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.306	14.316	-0.010	832125	12.225	11.642	
75 Benzo(a)pyrene	252.0		14.370		ND			
* 76 Perylene-d12	264.0	14.450	14.461	-0.011	1404193	20.000	19.048	
77 Indeno(1,2,3-cd)pyrene	276.0		16.624		ND			
78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123109.D		
Lab Sample ID:	QL16010-006	Client Sample ID:	F6R36RX
Injection Date:	31-Dec-2015 12:15:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QL16010-006		
Misc. Info:	92944		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Client	ALS Bottle:	6
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1050.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	31-Dec-2015 13:07:30

Tentative Identified Compound Results

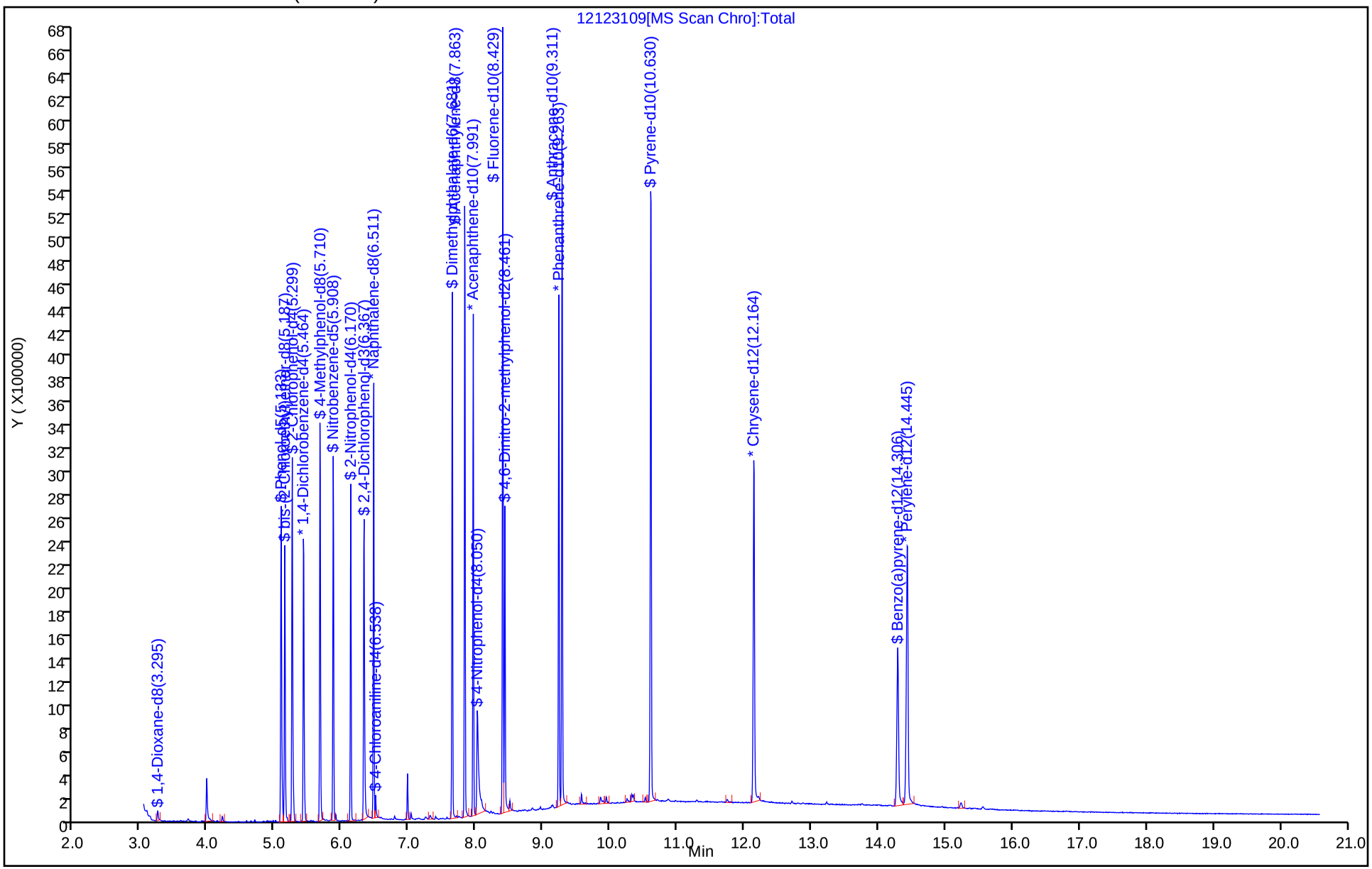
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
		Unknown						
4.027	471764	3.7568	3.5779	8				
		Unknown						
7.014	338156	2.0864	1.9870	23				

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.470	2511539	20.000
* 23 Naphthalene-d8	6.511	3241583	20.000

Report Date: 04-Jan-2016 10:27:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123109.D				
Injection Date:	31-Dec-2015 12:15:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	F6R36RX	Lab ID:	QL16010-006		
Sample Info:	12123115.b, QL16010-006				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



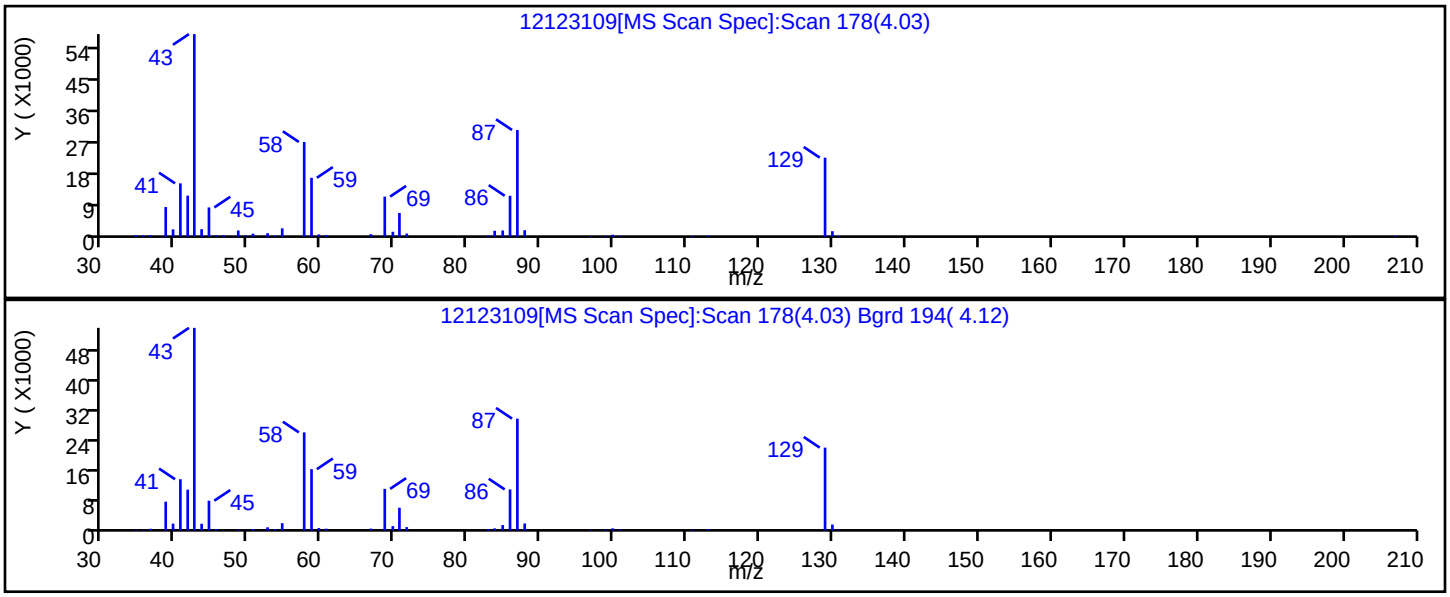
Report Date: 04-Jan-2016 10:27:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123109.D		
Injection Date:	31-Dec-2015 12:15:30	Inst. ID:	msd12.i
Client ID:	F6R36RX	Lab ID:	QL16010-006
Sample Info:	12123115.b, QL16010-006		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.027

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



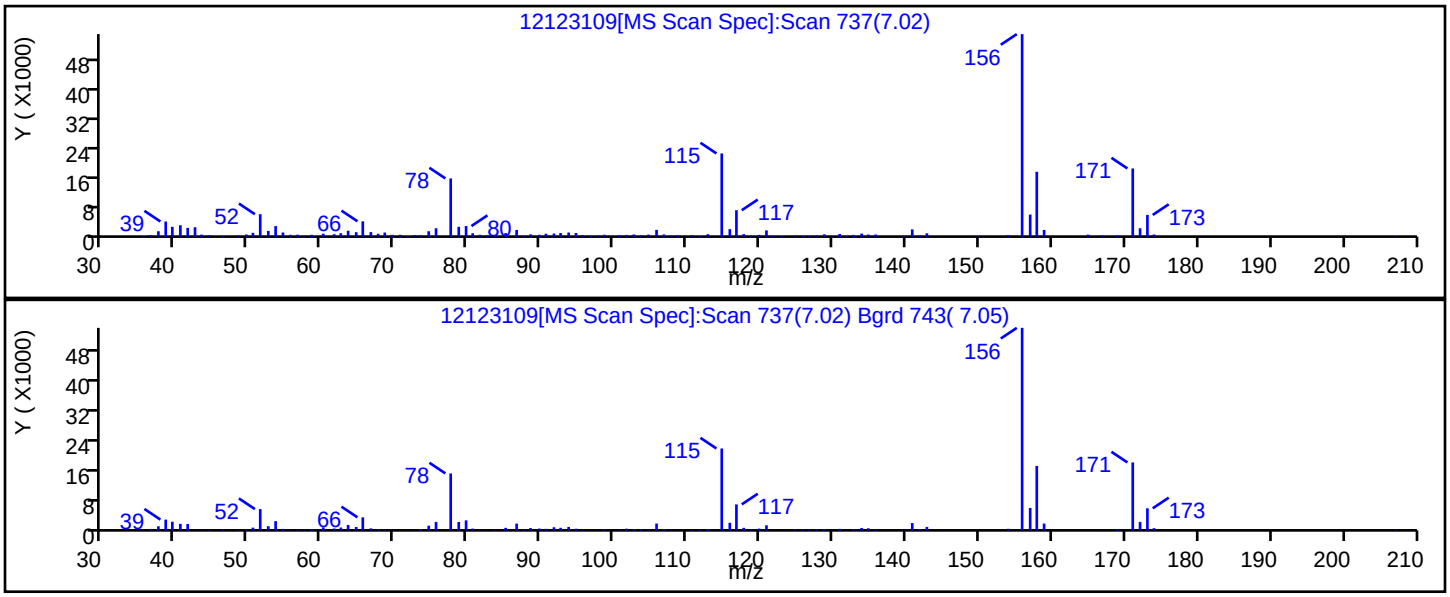
Report Date: 04-Jan-2016 10:27:35 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123109.D		
Injection Date:	31-Dec-2015 12:15:30	Inst. ID:	msd12.i
Client ID:	F6R36RX	Lab ID:	QL16010-006
Sample Info:	12123115.b, QL16010-006		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.014

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



SEMIVOLATILE STANDARDS DATA

-Initial Calibration Data Form 6A-OR

-Continuing Calibration Verification Data Form 7A-OR

Initial Calibration

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date(s): 12/11/2015 12/11/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Calibration Time(s): 0848 1042

Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

LAB FILE ID: 12121102 RRF 5.0 = 12121102 RRF 10 = 12121103

RRF 20 = 12121104 RRF 40 = 12121105 RRF 80 = 12121106

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
1,4-Dioxane	0.829	0.776	0.755	0.810	0.855	0.805	5.0
Benzaldehyde	1.346	1.428	1.402	1.370	0.914	1.292	16.5
Phenol	1.659	1.834	2.009	2.218	2.231	1.990	12.4
Bis(2-Chloroethyl) ether	1.298	1.400	1.500	1.605	1.684	1.497	10.3
2-Chlorophenol	1.258	1.386	1.528	1.707	1.784	1.533	14.2
2-Methylphenol	1.127	1.226	1.351	1.441	1.589	1.347	13.4
2,2'-Oxybis(1-chloropropane)	2.579	2.756	2.897	2.940	2.734	2.781	5.2
Acetophenone	1.716	1.881	2.047	2.213	2.337	2.039	12.2
4-Methylphenol	1.224	1.338	1.456	1.551	1.736	1.461	13.5
N-Nitroso-di-n propylamine	1.126	1.240	1.345	1.427	1.255	1.279	8.9
Hexachloroethane	0.522	0.582	0.639	0.688	0.719	0.630	12.6
Nitrobenzene	0.387	0.417	0.444	0.464	0.463	0.435	7.5
Isophorone	0.647	0.713	0.764	0.783	0.792	0.740	8.2
2-Nitrophenol	0.155	0.179	0.202	0.230	0.232	0.200	16.7
2,4-Dimethylphenol	0.322	0.359	0.405	0.434	0.365	0.377	11.5
Bis(2-chloroethoxy)methane	0.354	0.389	0.421	0.455	0.447	0.413	10.2
2,4-Dichlorophenol	0.227	0.259	0.296	0.336	0.326	0.289	15.9
Naphthalene	0.932	1.082	1.224	1.216	0.936	1.078	13.3
4-Chloroaniline	0.485	0.560	0.647	0.690	0.605	0.597	13.3
Hexachlorobutadiene	0.148	0.164	0.182	0.199	0.200	0.179	12.7
Caprolactam	0.085	0.095	0.073	0.066	0.087	0.081	14.1
4-Chloro-3-methylphenol	0.251	0.281	0.309	0.340	0.367	0.310	14.8
2-Methylnaphthalene	0.578	0.662	0.751	0.800	0.687	0.696	12.2
Hexachlorocyclo-pentadiene	0.291	0.340	0.405	0.438	0.451	0.385	17.6
2,4,6-Trichlorophenol	0.282	0.318	0.370	0.404	0.446	0.364	18.1
2,4,5-Trichlorophenol	0.294	0.337	0.386	0.426	0.470	0.383	18.3
1,1'-Biphenyl	1.226	1.410	1.627	1.669	1.435	1.473	12.2
2-Chloronaphthalene	0.918	1.050	1.210	1.264	1.220	1.132	12.8
2-Nitroaniline	0.354	0.394	0.450	0.475	0.496	0.434	13.6
Dimethylphthalate	1.035	1.166	1.371	1.505	1.517	1.319	16.1
2,6-Dinitrotoluene	0.214	0.254	0.301	0.340	0.390	0.300	23.1
Acenaphthylene	1.482	1.720	1.988	2.134	1.696	1.804	14.3
3-Nitroaniline	0.237	0.285	0.327	0.347	0.374	0.314	17.2
Acenaphthene	1.020	1.223	1.460	1.458	1.093	1.251	16.3
2,4-Dinitrophenol	0.126	0.169	0.224	0.273	0.251	0.209	29.0

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date(s): 12/11/2015 12/11/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Calibration Time(s): 0848 1042

Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

LAB FILE ID: 12121102 RRF 5.0 = 12121102 RRF 10 = 12121103

RRF 20 = 12121104 RRF 40 = 12121105 RRF 80 = 12121106

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
4-Nitrophenol	0.195	0.215	0.230	0.235	0.228	0.221	7.4
Dibenzofuran	1.327	1.452	1.671	1.851	1.685	1.597	13.0
2,4-Dinitrotoluene	0.286	0.357	0.418	0.463	0.525	0.410	22.6
Diethylphthalate	1.015	1.199	1.421	1.535	1.438	1.321	16.0
1,2,4,5-Tetrachlorobenzene	0.451	0.510	0.593	0.642	0.621	0.563	14.3
4-Chlorophenyl-phenyl ether	0.536	0.612	0.753	0.810	0.577	0.658	18.0
Fluorene	1.133	1.349	1.703	1.699	1.354	1.448	17.1
4-Nitroaniline	0.271	0.330	0.408	0.429	0.291	0.346	20.2
4,6-Dinitro-2-methylphenol	0.118	0.148	0.182	0.210	0.219	0.175	24.3
4-Bromophenyl-phenylether	0.182	0.200	0.228	0.260	0.275	0.229	17.2
N-Nitrosodiphenylamine	0.552	0.616	0.709	0.787	0.712	0.675	13.6
Hexachlorobenzene	0.219	0.247	0.281	0.315	0.308	0.274	14.9
Atrazine	0.202	0.235	0.267	0.283	0.237	0.245	12.8
Pentachlorophenol	0.126	0.146	0.167	0.191	0.219	0.170	21.6
Phenanthrene	0.942	1.051	1.180	1.251	1.144	1.114	10.8
Anthracene	0.948	1.075	1.255	1.324	1.026	1.126	14.1
Carbazole	0.860	0.952	1.055	1.085	0.965	0.983	9.1
Di-n-butylphthalate	1.085	1.225	1.362	1.346	1.081	1.220	11.1
Fluoranthene	1.023	1.147	1.278	1.308	1.170	1.185	9.6
Pyrene	0.931	1.049	1.155	1.168	0.972	1.055	10.1
Butylbenzylphthalate	0.389	0.433	0.479	0.510	0.508	0.464	11.3
3,3'-Dichlorobenzidine	0.343	0.378	0.389	0.365	0.352	0.365	5.2
Benzo(a)anthracene	0.962	1.035	1.092	1.102	1.066	1.051	5.4
Chrysene	0.896	0.973	1.040	1.067	0.991	0.993	6.7
Bis(2-ethylhexyl)phthalate	0.543	0.619	0.696	0.734	0.668	0.652	11.3
Di-n-octylphthalate	0.910	1.085	1.277	1.436	1.319	1.205	17.3
Benzo(b)fluoranthene	0.939	1.033	1.141	1.210	1.451	1.155	16.9
Benzo(k)fluoranthene	0.975	1.087	1.174	1.290	1.206	1.146	10.5
Benzo(a)pyrene	0.948	1.048	1.151	1.264	1.400	1.162	15.3
Indeno(1,2,3-cd)pyrene	1.189	1.279	1.268	1.264	1.328	1.266	3.9
Dibenzo(a,h)anthracene	1.034	1.127	1.144	1.180	1.244	1.146	6.7
Benzo(g,h,i)perylene	0.986	1.045	0.972	0.883	0.824	0.942	9.3
2,3,4,6-Tetrachlorophenol	0.233	0.278	0.335	0.390	0.426	0.332	23.7
1,4-Dioxane-d8	0.596	0.602	0.662	0.739	0.752	0.670	10.9
Phenol-d5	1.521	1.691	1.844	2.017	2.087	1.832	12.7

FORM 6A-OR
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date(s): 12/11/2015 12/11/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Calibration Time(s): 0848 1042

Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

LAB FILE ID: 12121102 RRF 5.0 = 12121102 RRF 10 = 12121103

RRF 20 = 12121104 RRF 40 = 12121105 RRF 80 = 12121106

COMPOUND	RRF 5.0	RRF 10	RRF 20	RRF 40	RRF 80	$\overline{RRF}$	%RSD
Bis-(2-chloroethyl)ether-d8	1.126	1.186	1.238	1.292	1.335	1.236	6.7
2-Chlorophenol-d4	1.010	1.108	1.211	1.326	1.405	1.212	13.2
4-Methylphenol-d8	1.116	1.235	1.335	1.417	1.550	1.331	12.5
4-Chloroaniline-d4	0.363	0.426	0.487	0.507	0.408	0.438	13.4
Nitrobenzene-d5	0.138	0.154	0.172	0.189	0.211	0.173	16.7
2-Nitrophenol-d4	0.150	0.177	0.210	0.239	0.214	0.198	17.6
2,4-Dichlorophenol-d3	0.231	0.262	0.300	0.334	0.326	0.291	14.9
Dimethylphthalate-d6	1.029	1.142	1.335	1.472	1.554	1.306	16.8
Acenaphthylene-d8	1.419	1.635	1.867	1.982	1.740	1.728	12.5
4-Nitrophenol-d4	0.218	0.275	0.355	0.380	0.369	0.319	21.9
Fluorene-d10	0.997	1.133	1.389	1.477	1.132	1.226	16.3
4,6-Dinitro-2-methylphenol-d2	0.118	0.155	0.197	0.219	0.221	0.182	24.5
Anthracene-d10	0.844	0.945	1.084	1.169	1.057	1.020	12.4
Pyrene-d10	0.765	0.861	0.929	0.923	0.885	0.873	7.6
Benzo(a)pyrene-d12	0.805	0.886	0.964	1.021	1.172	0.970	14.4

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121102.D		
Lab Sample ID:	SSTD005NG	Client Sample ID:	SSTD005NG
Injection Date:	11-Dec-2015 08:48:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12121115.b, SVMS 1680		
Misc. Info:	L1		
Method:	\\Organics\HH\chem\msd12.i\12121115.b\SOMBNA.m		
Method Date:	11-Dec-2015 15:58:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Ical, Level: 1	ALS Bottle:	1
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	11-Dec-2015 15:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.117	5.117	0.000	118823	5.0000	4.1521	
108 1,4-Dioxane	88.0	3.338	3.338	0.000	25896	2.0000	2.0594	
$ 109 1,4-Dioxane-d8	96.0	3.311	3.311	0.000	18625	2.0000	1.7793	
4 Phenol	94.0	5.128	5.128	0.000	129576	5.0000	4.1674	
2 Benzaldehyde	77.0	5.144	5.144	0.000	105150	5.0000	5.2088	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	87927	5.0000	4.5553	
5 bis(2-Chloroethyl)Ether	93.0	5.229	5.229	0.000	101396	5.0000	4.3350	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	78896	5.0000	4.1670	
7 2-Chlorophenol	128.0	5.309	5.309	0.000	98267	5.0000	4.1038	
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	312431	20.000	20.000	
10 2-Methylphenol	108.0	5.614	5.614	0.000	88041	5.0000	4.1850	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.651	5.651	0.000	201402	5.0000	4.6360	
$ 94 4-Methylphenol-d8	113.0	5.705	5.705	0.000	87174	5.0000	4.1936	
14 4-Methylphenol	108.0	5.726	5.726	0.000	95606	5.0000	4.1889	
13 N-Nitroso-di-n-propylamine	70.0	5.758	5.758	0.000	87948	5.0000	4.4024	
12 Acetophenone	105.0	5.780	5.780	0.000	134026	5.0000	4.2081	
15 Hexachloroethane	117.0	5.897	5.897	0.000	40740	5.0000	4.1401	
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	43979	5.0000	3.9873	
17 Nitrobenzene	77.0	5.929	5.929	0.000	123557	5.0000	4.4508	
18 Isophorone	82.0	6.111	6.111	0.000	206304	5.0000	4.3714	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	102849	5.0000	4.2738	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	47870	5.0000	3.7899	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	49369	5.0000	3.8761	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	112930	5.0000	4.2837	

Report Date: 11-Dec-2015 16:07:58 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121102.D

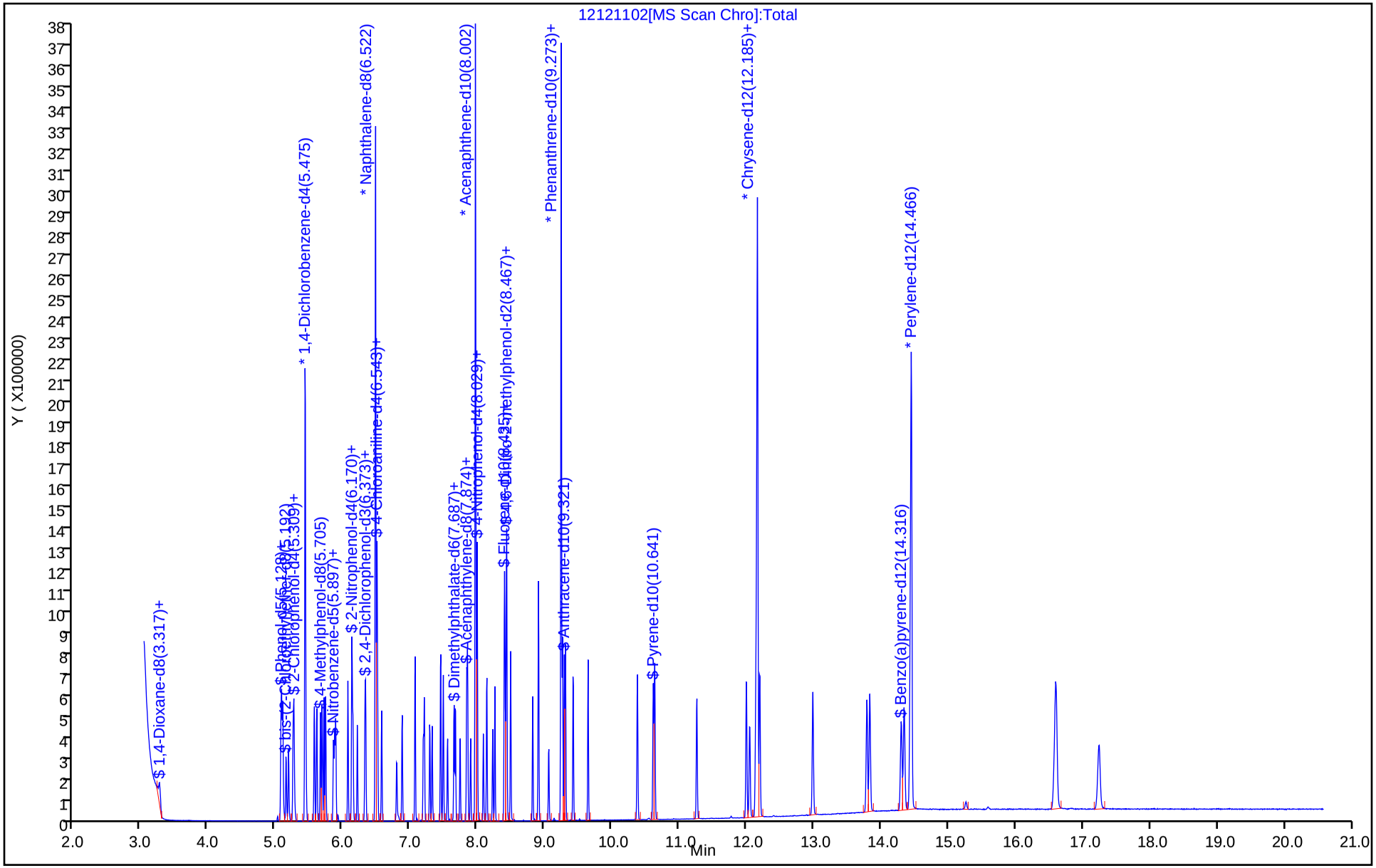
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.367	6.367	0.000	73738	5.0000	3.9767	
22 2,4-Dichlorophenol	162.0	6.373	6.373	0.000	72385	5.0000	3.9296	
* 23 Naphthalene-d8	136.0	6.522	6.522	0.000	1275829	20.000	20.000	
24 Naphthalene	128.0	6.538	6.538	0.000	297370	5.0000	4.3242	
$ 97 4-Chloroaniline-d4	131.0	6.543	6.543	0.000	115831	5.0000	4.1439	
25 4-Chloroaniline	127.0	6.549	6.549	0.000	154700	5.0000	4.0588	
26 Hexachlorobutadiene	225.0	6.613	6.613	0.000	47131	5.0000	4.1354	
27 Caprolactam	113.0	6.837	6.837	0.000	27213	5.0000	5.2458	
28 4-Chloro-3-methylphenol	107.0	6.917	6.917	0.000	80051	5.0000	4.0531	
29 2-Methylnaphthalene	142.0	7.110	7.110	0.000	184376	5.0000	4.1549	
30 Hexachlorocyclopentadiene	237.0	7.233	7.233	0.000	50081	5.0000	3.7771	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.243	7.243	0.000	77643	5.0000	4.0033	
31 2,4,6-Trichlorophenol	196.0	7.329	7.329	0.000	48469	5.0000	3.8669	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	50543	5.0000	3.8368	
34 1,1'-Biphenyl	154.0	7.489	7.489	0.000	210996	5.0000	4.1602	
35 2-Chloronaphthalene	162.0	7.526	7.526	0.000	158036	5.0000	4.0533	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	60926	5.0000	4.0792	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	177156	5.0000	3.9387	
37 Dimethylphthalate	163.0	7.708	7.708	0.000	178185	5.0000	3.9243	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	36848	5.0000	3.5699	
$ 99 Acenaphthylene-d8	160.0	7.874	7.874	0.000	244364	5.0000	4.1061	
38 Acenaphthylene	152.0	7.884	7.884	0.000	255118	5.0000	4.1081	
40 3-Nitroaniline	138.0	7.932	7.932	0.000	40784	5.0000	3.7718	
* 41 Acenaphthene-d10	164.0	8.002	8.002	0.000	688610	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.018	8.018	0.000	21640	5.0000	3.0131	
42 Acenaphthene	153.0	8.029	8.029	0.000	175674	5.0000	4.0790	
$ 100 4-Nitrophenol-d4	143.0	8.018	8.018	0.000	37526	5.0000	3.4125	
44 4-Nitrophenol	109.0	8.029	8.029	0.000	33530	5.0000	4.4109	
46 2,4-Dinitrotoluene	165.0	8.119	8.119	0.000	49208	5.0000	3.4881	
45 Dibenzofuran	168.0	8.173	8.173	0.000	228470	5.0000	4.1544	
107 2,3,4,6-Tetrachlorophenol	232.0	8.258	8.258	0.000	40046	5.0000	3.4998	
47 Diethylphthalate	149.0	8.290	8.290	0.000	174660	5.0000	3.8391	
49 4-Chlorophenyl-phenylether	204.0	8.429	8.429	0.000	92255	5.0000	4.0734	
$ 101 Fluorene-d10	176.0	8.440	8.440	0.000	171652	5.0000	4.0675	
50 4-Nitroaniline	138.0	8.451	8.451	0.000	46690	5.0000	3.9187	
48 Fluorene	166.0	8.467	8.467	0.000	194987	5.0000	3.9121	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.467	8.467	0.000	32904	5.0000	3.2419	
51 4,6-Dinitro-2-methylphenol	198.0	8.472	8.472	0.000	32797	5.0000	3.3557	
52 N-Nitrosodiphenylamine	169.0	8.525	8.525	0.000	153749	5.0000	4.0862	
54 4-Bromophenyl-phenylether	248.0	8.851	8.851	0.000	50682	5.0000	3.9709	
55 Hexachlorobenzene	284.0	8.937	8.937	0.000	60972	5.0000	3.9912	
56 Atrazine	200.0	8.942	8.942	0.000	56327	5.0000	4.1258	
57 Pentachlorophenol	266.0	9.092	9.092	0.000	35034	5.0000	3.7028	
* 58 Phenanthrene-d10	188.0	9.273	9.273	0.000	1115129	20.000	20.000	
59 Phenanthrene	178.0	9.295	9.295	0.000	262549	5.0000	4.2283	
$ 103 Anthracene-d10	188.0	9.321	9.321	0.000	235239	5.0000	4.1378	
60 Anthracene	178.0	9.337	9.337	0.000	264271	5.0000	4.2109	
106 Carbazole	167.0	9.455	9.455	0.000	239773	5.0000	4.3727	
62 Di-n-butylphthalate	149.0	9.674	9.674	0.000	302546	5.0000	4.4488	
63 Fluoranthene	202.0	10.406	10.406	0.000	285077	5.0000	4.3143	
$ 104 Pyrene-d10	212.0	10.641	10.641	0.000	253259	5.0000	4.3845	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
64 Pyrene	202.0	10.662	10.662	0.000	308231	5.0000	4.4129	
66 Butylbenzylphthalate	149.0	11.287	11.287	0.000	128653	5.0000	4.1916	
71 bis(2-Ethylhexyl)phthalate	149.0	12.019	12.019	0.000	179829	5.0000	4.1665	
68 3,3'-Dichlorobenzidine	252.0	12.073	12.073	0.000	113392	5.0000	4.6880	
67 Benzo(a)anthracene	228.0	12.164	12.164	0.000	318288	5.0000	4.5743	
* 69 Chrysene-d12	240.0	12.185	12.185	0.000	1323828	20.000	20.000	
70 Chrysene	228.0	12.222	12.222	0.000	296518	5.0000	4.5098	
72 Di-n-octylphthalate	149.0	13.008	13.008	0.000	298043	5.0000	3.7752	
73 Benzo(b)fluoranthene	252.0	13.809	13.809	0.000	307685	5.0000	4.0679	
74 Benzo(k)fluoranthene	252.0	13.852	13.852	0.000	319344	5.0000	4.2525	
$ 105 Benzo(a)pyrene-d12	264.0	14.316	14.316	0.000	263610	5.0000	4.1509	
75 Benzo(a)pyrene	252.0	14.359	14.359	0.000	310342	5.0000	4.0763	
* 76 Perylene-d12	264.0	14.466	14.466	0.000	1310041	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.608	16.608	0.000	389445	5.0000	4.6974	
78 Dibenzo(a,h)anthracene	278.0	16.619	16.619	0.000	338619	5.0000	4.5119	
79 Benzo(g,h,i)perylene	276.0	17.255	17.255	0.000	322885	5.0000	5.2327	

Report Date: 11-Dec-2015 16:07:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121102.D				
Injection Date:	11-Dec-2015 08:48:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD005NG	Lab ID:	SSTD005NG		
Sample Info:	12121115.b, SVMS 1680				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121103.D		
Lab Sample ID:	SSTD010NG	Client Sample ID:	SSTD010NG
Injection Date:	11-Dec-2015 09:16:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12121115.b, SVMS 1681		
Misc. Info:	L2		
Method:	\\Organics\HH\chem\msd12.i\12121115.b\SOMBNA.m		
Method Date:	11-Dec-2015 15:58:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Ical, Level: 2	ALS Bottle:	2
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	11-Dec-2015 15:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.117	5.117	0.000	251660	10.000	9.2310	
108 1,4-Dioxane	88.0	3.338	3.338	0.000	46186	4.0000	3.8555	
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	35842	4.0000	3.5944	
4 Phenol	94.0	5.128	5.128	0.000	272992	10.000	9.2163	
2 Benzaldehyde	77.0	5.144	5.144	0.000	212568	10.000	11.053	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	176568	10.000	9.6023	
5 bis(2-Chloroethyl)Ether	93.0	5.230	5.230	0.000	208342	10.000	9.3500	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	164917	10.000	9.1432	
7 2-Chlorophenol	128.0	5.310	5.310	0.000	206289	10.000	9.0433	
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	297636	20.000	20.000	
10 2-Methylphenol	108.0	5.609	5.609	0.000	182429	10.000	9.1027	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.646	5.646	0.000	410157	10.000	9.9105	
$ 94 4-Methylphenol-d8	113.0	5.705	5.705	0.000	183771	10.000	9.2800	
14 4-Methylphenol	108.0	5.726	5.726	0.000	199191	10.000	9.1613	
13 N-Nitroso-di-n-propylamine	70.0	5.758	5.758	0.000	184572	10.000	9.6984	
12 Acetophenone	105.0	5.780	5.780	0.000	279927	10.000	9.2259	
15 Hexachloroethane	117.0	5.897	5.897	0.000	86644	10.000	9.2426	
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	94821	10.000	8.9142	
17 Nitrobenzene	77.0	5.929	5.929	0.000	256714	10.000	9.5890	
18 Isophorone	82.0	6.111	6.111	0.000	438552	10.000	9.6356	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	221060	10.000	9.5252	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	108813	10.000	8.9328	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	110201	10.000	8.9718	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	239395	10.000	9.4162	

Report Date: 11-Dec-2015 16:07:58 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121103.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.362	0.000	161427	10.000	9.0273	
22 2,4-Dichlorophenol	162.0	6.373	6.373	0.000	159114	10.000	8.9569	
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1230399	20.000	20.000	
24 Naphthalene	128.0	6.538	6.538	0.000	665857	10.000	10.040	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	261968	10.000	9.7181	
25 4-Chloroaniline	127.0	6.549	6.549	0.000	344274	10.000	9.3662	
26 Hexachlorobutadiene	225.0	6.608	6.608	0.000	101058	10.000	9.1944	
27 Caprolactam	113.0	6.843	6.843	0.000	58452	10.000	11.684	
28 4-Chloro-3-methylphenol	107.0	6.912	6.912	0.000	173115	10.000	9.0887	
29 2-Methylnaphthalene	142.0	7.105	7.105	0.000	407383	10.000	9.5194	
30 Hexachlorocyclopentadiene	237.0	7.228	7.228	0.000	113051	10.000	8.8402	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.244	7.244	0.000	169276	10.000	9.0494	
31 2,4,6-Trichlorophenol	196.0	7.324	7.324	0.000	105688	10.000	8.7423	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	111966	10.000	8.8125	
34 1,1'-Biphenyl	154.0	7.484	7.484	0.000	468087	10.000	9.5691	
35 2-Chloronaphthalene	162.0	7.527	7.527	0.000	348766	10.000	9.2746	
36 2-Nitroaniline	65.0	7.585	7.585	0.000	130721	10.000	9.0745	
$ 98 Dimethylphthalate-d6	166.0	7.682	7.682	0.000	379154	10.000	8.7400	
37 Dimethylphthalate	163.0	7.703	7.703	0.000	387209	10.000	8.8417	
39 2,6-Dinitrotoluene	165.0	7.772	7.772	0.000	84308	10.000	8.4686	
$ 99 Acenaphthylene-d8	160.0	7.874	7.874	0.000	542956	10.000	9.4592	
38 Acenaphthylene	152.0	7.885	7.885	0.000	571033	10.000	9.5338	
40 3-Nitroaniline	138.0	7.933	7.933	0.000	94766	10.000	9.0869	
* 41 Acenaphthene-d10	164.0	8.002	8.002	0.000	664158	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.013	8.013	0.000	56226	10.000	8.1171	
42 Acenaphthene	153.0	8.029	8.029	0.000	406026	10.000	9.7747	
$ 100 4-Nitrophenol-d4	143.0	8.024	8.024	0.000	91331	10.000	8.6111	
44 4-Nitrophenol	109.0	8.029	8.029	0.000	71505	10.000	9.7530	
46 2,4-Dinitrotoluene	165.0	8.120	8.120	0.000	118595	10.000	8.7160	
45 Dibenzofuran	168.0	8.168	8.168	0.000	482251	10.000	9.0920	
107 2,3,4,6-Tetrachlorophenol	232.0	8.259	8.259	0.000	92466	10.000	8.3786	
47 Diethylphthalate	149.0	8.291	8.291	0.000	398083	10.000	9.0722	
49 4-Chlorophenyl-phenylether	204.0	8.430	8.430	0.000	203315	10.000	9.3076	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	376409	10.000	9.2479	
50 4-Nitroaniline	138.0	8.456	8.456	0.000	109690	10.000	9.5453	
48 Fluorene	166.0	8.462	8.462	0.000	448038	10.000	9.3202	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.467	8.467	0.000	88004	10.000	8.4884	
51 4,6-Dinitro-2-methylphenol	198.0	8.472	8.472	0.000	84275	10.000	8.4416	
52 N-Nitrosodiphenylamine	169.0	8.526	8.526	0.000	350664	10.000	9.1236	
54 4-Bromophenyl-phenylether	248.0	8.852	8.852	0.000	113655	10.000	8.7175	
55 Hexachlorobenzene	284.0	8.937	8.937	0.000	140871	10.000	9.0275	
56 Atrazine	200.0	8.942	8.942	0.000	133786	10.000	9.5933	
57 Pentachlorophenol	266.0	9.087	9.087	0.000	83344	10.000	8.6235	
* 58 Phenanthrene-d10	188.0	9.274	9.274	0.000	1139084	20.000	20.000	
59 Phenanthrene	178.0	9.295	9.295	0.000	598866	10.000	9.4418	
$ 103 Anthracene-d10	188.0	9.322	9.322	0.000	538410	10.000	9.2713	
60 Anthracene	178.0	9.338	9.338	0.000	612390	10.000	9.5527	
106 Carbazole	167.0	9.450	9.450	0.000	542302	10.000	9.6818	
62 Di-n-butylphthalate	149.0	9.669	9.669	0.000	697507	10.000	10.041	
63 Fluoranthene	202.0	10.401	10.401	0.000	653516	10.000	9.6822	
$ 104 Pyrene-d10	212.0	10.641	10.641	0.000	578763	10.000	9.8665	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
64 Pyrene	202.0	10.657	10.657	0.000	705243	10.000	9.9426	
66 Butylbenzylphthalate	149.0	11.282	11.282	0.000	291127	10.000	9.3401	
71 bis(2-Ethylhexyl)phthalate	149.0	12.014	12.014	0.000	415998	10.000	9.4910	
68 3,3'-Dichlorobenzidine	252.0	12.068	12.068	0.000	254081	10.000	10.344	
67 Benzo(a)anthracene	228.0	12.158	12.158	0.000	695679	10.000	9.8451	
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	1344375	20.000	20.000	
70 Chrysene	228.0	12.217	12.217	0.000	653925	10.000	9.7936	
72 Di-n-octylphthalate	149.0	13.003	13.003	0.000	708728	10.000	9.0008	
73 Benzo(b)fluoranthene	252.0	13.804	13.804	0.000	674856	10.000	8.9459	
74 Benzo(k)fluoranthene	252.0	13.852	13.852	0.000	709945	10.000	9.4788	
$ 105 Benzo(a)pyrene-d12	264.0	14.317	14.317	0.000	578975	10.000	9.1409	
75 Benzo(a)pyrene	252.0	14.359	14.359	0.000	684908	10.000	9.0200	
* 76 Perylene-d12	264.0	14.461	14.461	0.000	1306591	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.598	16.598	0.000	835419	10.000	10.103	
78 Dibenzo(a,h)anthracene	278.0	16.619	16.619	0.000	735938	10.000	9.8319	
79 Benzo(g,h,i)perylene	276.0	17.255	17.255	0.000	682684	10.000	11.093	

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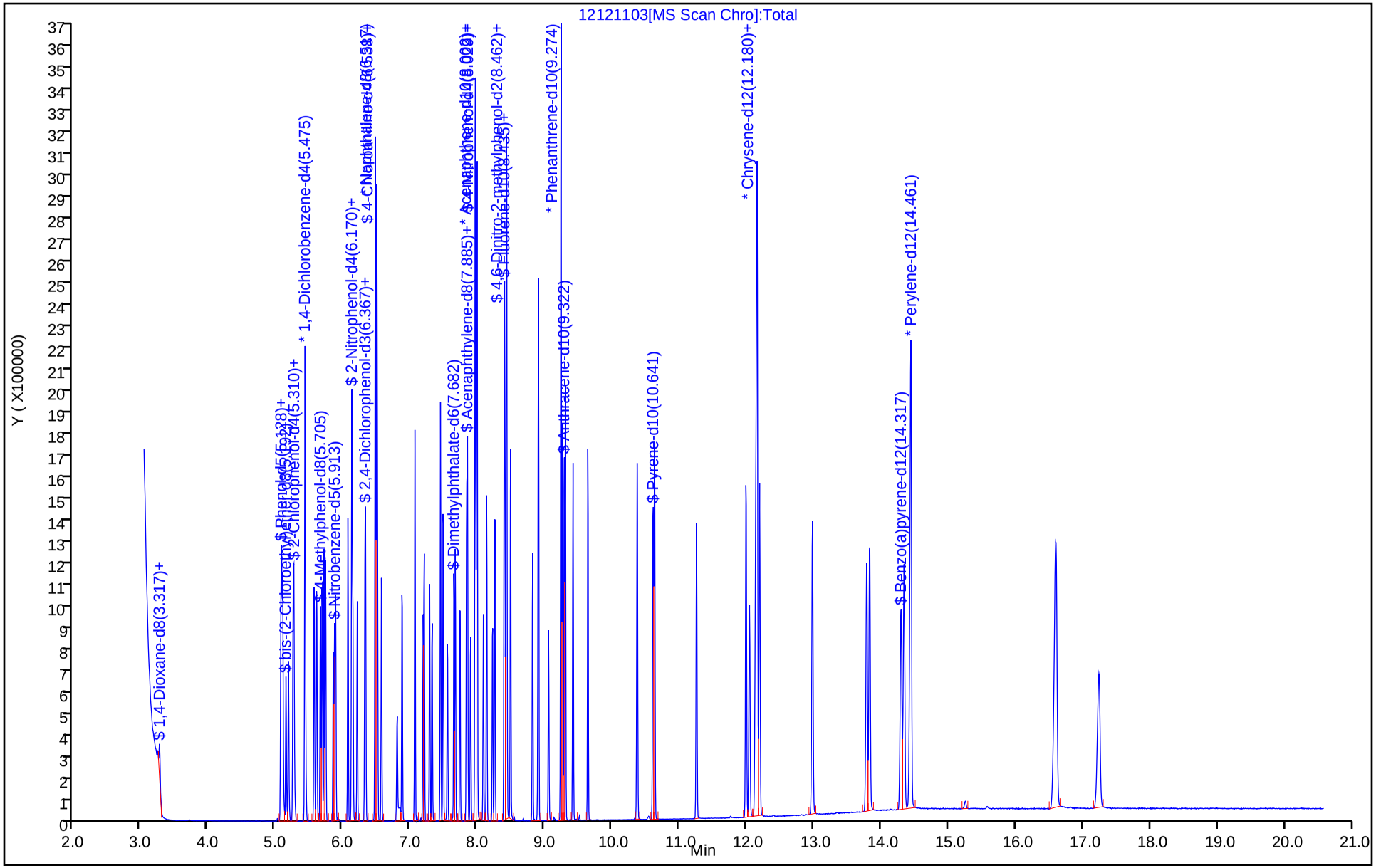
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121103.D				
Injection Date:	11-Dec-2015 09:16:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD010NG	Lab ID:	SSTD010NG		
Sample Info:	12121115.b, SVMS 1681				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121104.D		
Lab Sample ID:	SSTD020NG	Client Sample ID:	SSTD020NG
Injection Date:	11-Dec-2015 09:44:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12121115.b, SVMS 1673		
Misc. Info:	L3		
Method:	\\Organics\HH\chem\msd12.i\12121115.b\SOMBNA.m		
Method Date:	11-Dec-2015 15:58:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Ical, Level: 3	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	11-Dec-2015 15:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	586872	20.000	20.128	
108 1,4-Dioxane	88.0	3.338	3.338	0.000	96081	8.0000	7.4995	
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	84254	8.0000	7.9005	
4 Phenol	94.0	5.133	5.133	0.000	639572	20.000	20.189	
2 Benzaldehyde	77.0	5.144	5.144	0.000	446393	20.000	21.704	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.197	5.197	0.000	394225	20.000	20.046	
5 bis(2-Chloroethyl)Ether	93.0	5.229	5.229	0.000	477459	20.000	20.035	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	385488	20.000	19.984	
7 2-Chlorophenol	128.0	5.310	5.310	0.000	486489	20.000	19.941	
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	318315	20.000	20.000	
10 2-Methylphenol	108.0	5.614	5.614	0.000	429946	20.000	20.059	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.651	5.651	0.000	922131	20.000	20.834	
$ 94 4-Methylphenol-d8	113.0	5.710	5.710	0.000	424903	20.000	20.063	
14 4-Methylphenol	108.0	5.732	5.732	0.000	463561	20.000	19.935	
13 N-Nitroso-di-n-propylamine	70.0	5.764	5.764	0.000	428263	20.000	21.041	
12 Acetophenone	105.0	5.785	5.785	0.000	651610	20.000	20.081	
15 Hexachloroethane	117.0	5.897	5.897	0.000	203362	20.000	20.284	
$ 16 Nitrobenzene-d5	128.0	5.919	5.919	0.000	227034	20.000	19.877	
17 Nitrobenzene	77.0	5.935	5.935	0.000	586656	20.000	20.408	
18 Isophorone	82.0	6.116	6.116	0.000	1009608	20.000	20.658	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	534973	20.000	21.468	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	277346	20.000	21.204	
19 2-Nitrophenol	139.0	6.191	6.191	0.000	266771	20.000	20.226	
21 bis(2-Chloroethoxy)methane	93.0	6.255	6.255	0.000	555777	20.000	20.358	

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Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121104.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.367	6.367	0.000	396857	20.000	20.668	
22 2,4-Dichlorophenol	162.0	6.378	6.378	0.000	391031	20.000	20.500	
* 23 Naphthalene-d8	136.0	6.522	6.522	0.000	1321174	20.000	20.000	
24 Naphthalene	128.0	6.538	6.538	0.000	1616895	20.000	22.705	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	644071	20.000	22.251	
25 4-Chloroaniline	127.0	6.554	6.554	0.000	854886	20.000	21.660	
26 Hexachlorobutadiene	225.0	6.613	6.613	0.000	240683	20.000	20.393	
27 Caprolactam	113.0	6.859	6.859	0.000	96445	20.000	17.953	
28 4-Chloro-3-methylphenol	107.0	6.918	6.918	0.000	408273	20.000	19.962	
29 2-Methylnaphthalene	142.0	7.110	7.110	0.000	991875	20.000	21.585	
30 Hexachlorocyclopentadiene	237.0	7.227	7.227	0.000	282813	20.000	21.021	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.243	7.243	0.000	414031	20.000	21.038	
31 2,4,6-Trichlorophenol	196.0	7.324	7.324	0.000	258719	20.000	20.342	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	269856	20.000	20.188	
34 1,1'-Biphenyl	154.0	7.489	7.489	0.000	1136564	20.000	22.085	
35 2-Chloronaphthalene	162.0	7.527	7.527	0.000	845255	20.000	21.365	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	314113	20.000	20.726	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	932556	20.000	20.433	
37 Dimethylphthalate	163.0	7.708	7.708	0.000	958037	20.000	20.794	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	210279	20.000	20.077	
$ 99 Acenaphthylene-d8	160.0	7.874	7.874	0.000	1304418	20.000	21.601	
38 Acenaphthylene	152.0	7.890	7.890	0.000	1388770	20.000	22.039	
40 3-Nitroaniline	138.0	7.938	7.938	0.000	228302	20.000	20.808	
* 41 Acenaphthene-d10	164.0	8.002	8.002	0.000	698737	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.018	8.018	0.000	156441	20.000	21.467	
42 Acenaphthene	153.0	8.029	8.029	0.000	1020182	20.000	23.345	
$ 100 4-Nitrophenol-d4	143.0	8.029	8.029	0.000	248299	20.000	22.252	
44 4-Nitrophenol	109.0	8.034	8.034	0.000	160872	20.000	20.856	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	292016	20.000	20.399	
45 Dibenzofuran	168.0	8.173	8.173	0.000	1167297	20.000	20.918	
107 2,3,4,6-Tetrachlorophenol	232.0	8.258	8.258	0.000	234241	20.000	20.175	
47 Diethylphthalate	149.0	8.296	8.296	0.000	992601	20.000	21.502	
49 4-Chlorophenyl-phenylether	204.0	8.429	8.429	0.000	526494	20.000	22.910	
$ 101 Fluorene-d10	176.0	8.440	8.440	0.000	970402	20.000	22.662	
50 4-Nitroaniline	138.0	8.467	8.467	0.000	285401	20.000	23.607	
48 Fluorene	166.0	8.467	8.467	0.000	1189979	20.000	23.529	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	251377	20.000	21.698	
51 4,6-Dinitro-2-methylphenol	198.0	8.477	8.477	0.000	231182	20.000	20.723	
52 N-Nitrosodiphenylamine	169.0	8.526	8.526	0.000	902402	20.000	21.011	
54 4-Bromophenyl-phenylether	248.0	8.851	8.851	0.000	290065	20.000	19.910	
55 Hexachlorobenzene	284.0	8.937	8.937	0.000	357278	20.000	20.489	
56 Atrazine	200.0	8.948	8.948	0.000	340159	20.000	21.828	
57 Pentachlorophenol	266.0	9.092	9.092	0.000	211954	20.000	19.626	
* 58 Phenanthrene-d10	188.0	9.273	9.273	0.000	1272869	20.000	20.000	
59 Phenanthrene	178.0	9.295	9.295	0.000	1501901	20.000	21.190	
$ 103 Anthracene-d10	188.0	9.322	9.322	0.000	1379244	20.000	21.254	
60 Anthracene	178.0	9.338	9.338	0.000	1597285	20.000	22.297	
106 Carbazole	167.0	9.455	9.455	0.000	1343300	20.000	21.462	
62 Di-n-butylphthalate	149.0	9.674	9.674	0.000	1733214	20.000	22.328	
63 Fluoranthene	202.0	10.406	10.406	0.000	1626505	20.000	21.565	
$ 104 Pyrene-d10	212.0	10.641	10.641	0.000	1400259	20.000	21.299	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
64 Pyrene	202.0	10.662	10.662	0.000	1740483	20.000	21.894	
66 Butylbenzylphthalate	149.0	11.282	11.282	0.000	721343	20.000	20.649	
71 bis(2-Ethylhexyl)phthalate	149.0	12.019	12.019	0.000	1048336	20.000	21.341	
68 3,3'-Dichlorobenzidine	252.0	12.073	12.073	0.000	586810	20.000	21.316	
67 Benzo(a)anthracene	228.0	12.164	12.164	0.000	1644569	20.000	20.766	
* 69 Chrysene-d12	240.0	12.185	12.185	0.000	1506698	20.000	20.000	
70 Chrysene	228.0	12.222	12.222	0.000	1567004	20.000	20.940	
72 Di-n-octylphthalate	149.0	13.002	13.002	0.000	1791592	20.000	21.187	
73 Benzo(b)fluoranthene	252.0	13.814	13.814	0.000	1600501	20.000	19.756	
74 Benzo(k)fluoranthene	252.0	13.857	13.857	0.000	1647851	20.000	20.487	
$ 105 Benzo(a)pyrene-d12	264.0	14.327	14.327	0.000	1352254	20.000	19.880	
75 Benzo(a)pyrene	252.0	14.370	14.370	0.000	1614946	20.000	19.804	
* 76 Perylene-d12	264.0	14.466	14.466	0.000	1403182	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.624	16.624	0.000	1779547	20.000	20.040	
78 Dibenzo(a,h)anthracene	278.0	16.635	16.635	0.000	1605714	20.000	19.975	
79 Benzo(g,h,i)perylene	276.0	17.271	17.271	0.000	1363877	20.000	20.636	

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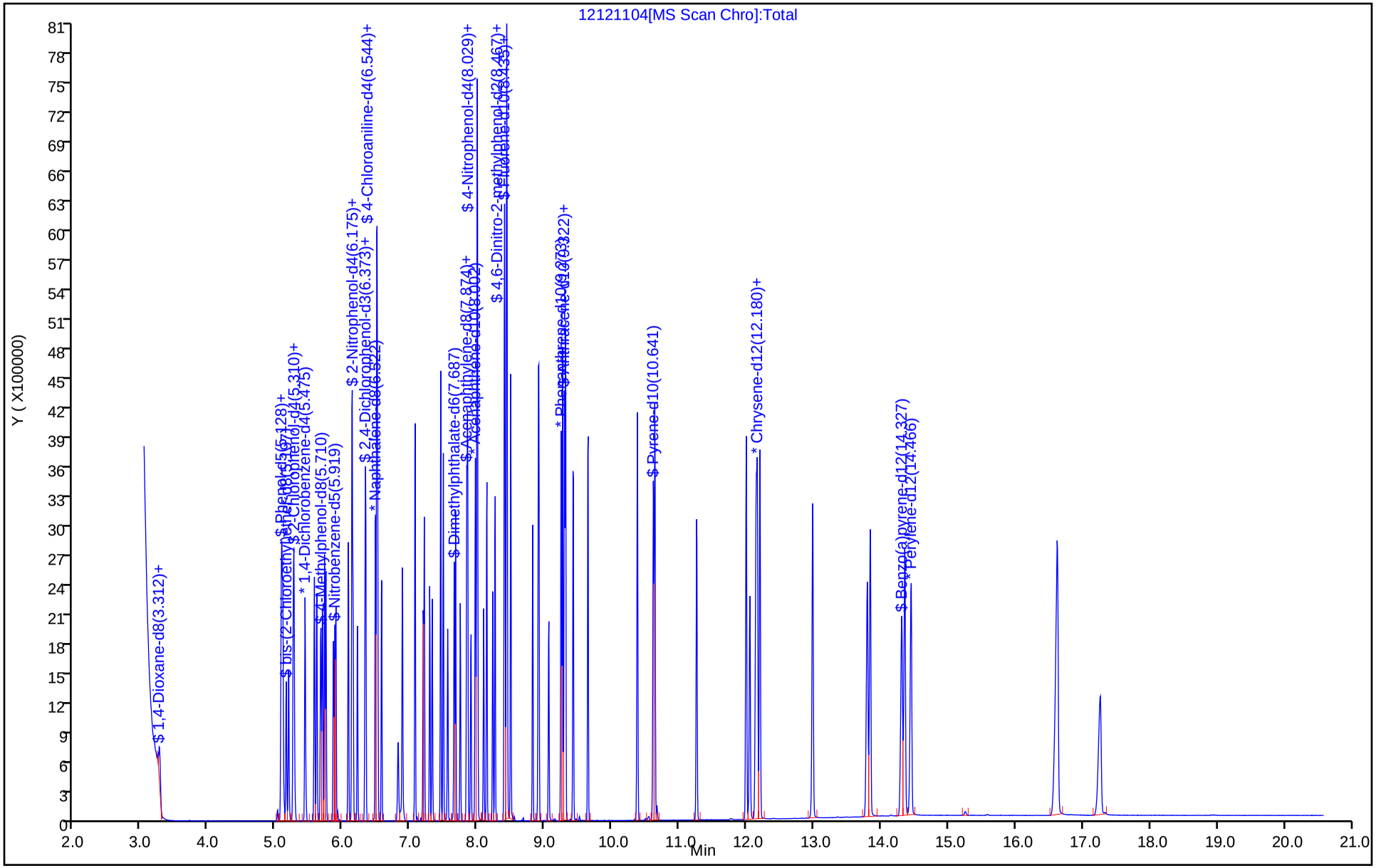
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121104.D				
Injection Date:	11-Dec-2015 09:44:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020NG	Lab ID:	SSTD020NG		
Sample Info:	12121115.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 11-Dec-2015 16:07:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121105.D		
Lab Sample ID:	SSTD040NG	Client Sample ID:	SSTD040NG
Injection Date:	11-Dec-2015 10:13:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12121115.b, SVMS 1682		
Misc. Info:	L4		
Method:	\\Organics\HH\chem\msd12.i\12121115.b\SOMBNA.m		
Method Date:	11-Dec-2015 15:58:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Ical, Level: 4	ALS Bottle:	4
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	11-Dec-2015 15:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.128	5.128	0.000	1306229	40.000	44.035	
108 1,4-Dioxane	88.0	3.338	3.338	0.000	209951	16.000	16.108	
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	191344	16.000	17.636	
4 Phenol	94.0	5.139	5.139	0.000	1436823	40.000	44.581	
2 Benzaldehyde	77.0	5.149	5.149	0.000	887381	40.000	42.408	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.197	5.197	0.000	837122	40.000	41.840	
5 bis(2-Chloroethyl)Ether	93.0	5.235	5.235	0.000	1039403	40.000	42.871	
$ 6 2-Chlorophenol-d4	132.0	5.304	5.304	0.000	858989	40.000	43.769	
7 2-Chlorophenol	128.0	5.315	5.315	0.000	1105814	40.000	44.553	
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	323849	20.000	20.000	
10 2-Methylphenol	108.0	5.619	5.619	0.000	933373	40.000	42.803	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.651	5.651	0.000	1904050	40.000	42.283	
$ 94 4-Methylphenol-d8	113.0	5.716	5.716	0.000	917917	40.000	42.601	
14 4-Methylphenol	108.0	5.742	5.742	0.000	1004455	40.000	42.458	
13 N-Nitroso-di-n-propylamine	70.0	5.774	5.774	0.000	924282	40.000	44.636	
12 Acetophenone	105.0	5.790	5.790	0.000	1433188	40.000	43.412	
15 Hexachloroethane	117.0	5.897	5.897	0.000	445718	40.000	43.698	
$ 16 Nitrobenzene-d5	128.0	5.924	5.924	0.000	513826	40.000	43.781	
17 Nitrobenzene	77.0	5.940	5.940	0.000	1259595	40.000	42.642	
18 Isophorone	82.0	6.127	6.127	0.000	2126651	40.000	42.349	
20 2,4-Dimethylphenol	107.0	6.175	6.175	0.000	1178922	40.000	46.040	
$ 95 2-Nitrophenol-d4	143.0	6.180	6.180	0.000	650245	40.000	48.381	
19 2-Nitrophenol	139.0	6.191	6.191	0.000	625083	40.000	46.123	
21 bis(2-Chloroethoxy)methane	93.0	6.255	6.255	0.000	1235641	40.000	44.049	

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Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121105.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.373	6.373	0.000	906034	40.000	45.921	
22 2,4-Dichlorophenol	162.0	6.383	6.383	0.000	913042	40.000	46.583	
* 23 Naphthalene-d8	136.0	6.522	6.522	0.000	1357554	20.000	20.000	
24 Naphthalene	128.0	6.544	6.544	0.000	3300610	40.000	45.106	
$ 97 4-Chloroaniline-d4	131.0	6.549	6.549	0.000	1375650	40.000	46.252	
25 4-Chloroaniline	127.0	6.560	6.560	0.000	1874508	40.000	46.221	
26 Hexachlorobutadiene	225.0	6.613	6.613	0.000	541144	40.000	44.623	
27 Caprolactam	113.0	6.875	6.875	0.000	180412	40.000	32.684	
28 4-Chloro-3-methylphenol	107.0	6.928	6.928	0.000	923041	40.000	43.922	
29 2-Methylnaphthalene	142.0	7.110	7.110	0.000	2172763	40.000	46.016	
30 Hexachlorocyclopentadiene	237.0	7.233	7.233	0.000	644027	40.000	45.533	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.249	7.249	0.000	943586	40.000	45.608	
31 2,4,6-Trichlorophenol	196.0	7.329	7.329	0.000	593447	40.000	44.383	
32 2,4,5-Trichlorophenol	196.0	7.366	7.366	0.000	625571	40.000	44.517	
34 1,1'-Biphenyl	154.0	7.489	7.489	0.000	2451757	40.000	45.316	
35 2-Chloronaphthalene	162.0	7.532	7.532	0.000	1857187	40.000	44.653	
36 2-Nitroaniline	65.0	7.596	7.596	0.000	698564	40.000	43.844	
$ 98 Dimethylphthalate-d6	166.0	7.692	7.692	0.000	2162711	40.000	45.074	
37 Dimethylphthalate	163.0	7.714	7.714	0.000	2210900	40.000	45.645	
39 2,6-Dinitrotoluene	165.0	7.788	7.788	0.000	499385	40.000	45.354	
$ 99 Acenaphthylene-d8	160.0	7.879	7.879	0.000	2911233	40.000	45.856	
38 Acenaphthylene	152.0	7.895	7.895	0.000	3134745	40.000	47.319	
40 3-Nitroaniline	138.0	7.943	7.943	0.000	510149	40.000	44.228	
* 41 Acenaphthene-d10	164.0	8.002	8.002	0.000	734579	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.029	8.029	0.000	401616	40.000	52.421	
42 Acenaphthene	153.0	8.034	8.034	0.000	2142228	40.000	46.628	
$ 100 4-Nitrophenol-d4	143.0	8.045	8.045	0.000	557884	40.000	47.557	
44 4-Nitrophenol	109.0	8.050	8.050	0.000	345919	40.000	42.659	
46 2,4-Dinitrotoluene	165.0	8.136	8.136	0.000	679769	40.000	45.170	
45 Dibenzofuran	168.0	8.178	8.178	0.000	2719361	40.000	46.354	
107 2,3,4,6-Tetrachlorophenol	232.0	8.264	8.264	0.000	572596	40.000	46.911	
47 Diethylphthalate	149.0	8.301	8.301	0.000	2255215	40.000	46.469	
49 4-Chlorophenyl-phenylether	204.0	8.435	8.435	0.000	1190385	40.000	49.270	
$ 101 Fluorene-d10	176.0	8.445	8.445	0.000	2170323	40.000	48.210	
50 4-Nitroaniline	138.0	8.483	8.483	0.000	629985	40.000	49.566	
48 Fluorene	166.0	8.472	8.472	0.000	2495812	40.000	46.941	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.483	8.483	0.000	591530	40.000	48.206	
51 4,6-Dinitro-2-methylphenol	198.0	8.488	8.488	0.000	566092	40.000	47.909	
52 N-Nitrosodiphenylamine	169.0	8.531	8.531	0.000	2120727	40.000	46.619	
54 4-Bromophenyl-phenylether	248.0	8.857	8.857	0.000	701895	40.000	45.486	
55 Hexachlorobenzene	284.0	8.942	8.942	0.000	850261	40.000	46.036	
56 Atrazine	200.0	8.953	8.953	0.000	763410	40.000	46.251	
57 Pentachlorophenol	266.0	9.097	9.097	0.000	514964	40.000	45.018	
* 58 Phenanthrene-d10	188.0	9.279	9.279	0.000	1348200	20.000	20.000	
59 Phenanthrene	178.0	9.300	9.300	0.000	3372251	40.000	44.921	
$ 103 Anthracene-d10	188.0	9.327	9.327	0.000	3151950	40.000	45.857	
60 Anthracene	178.0	9.348	9.348	0.000	3569813	40.000	47.049	
106 Carbazole	167.0	9.455	9.455	0.000	2924538	40.000	44.114	
62 Di-n-butylphthalate	149.0	9.674	9.674	0.000	3629939	40.000	44.149	
63 Fluoranthene	202.0	10.411	10.411	0.000	3526035	40.000	44.137	
$ 104 Pyrene-d10	212.0	10.646	10.646	0.000	3063146	40.000	42.301	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
64 Pyrene	202.0	10.673	10.673	0.000	3877855	40.000	44.286	
66 Butylbenzylphthalate	149.0	11.287	11.287	0.000	1694065	40.000	44.027	
71 bis(2-Ethylhexyl)phthalate	149.0	12.025	12.025	0.000	2437346	40.000	45.046	
68 3,3'-Dichlorobenzidine	252.0	12.083	12.083	0.000	1210283	40.000	39.913	
67 Benzo(a)anthracene	228.0	12.174	12.174	0.000	3657403	40.000	41.928	
* 69 Chrysene-d12	240.0	12.190	12.190	0.000	1659590	20.000	20.000	
70 Chrysene	228.0	12.233	12.233	0.000	3541586	40.000	42.967	
72 Di-n-octylphthalate	149.0	13.008	13.008	0.000	4086467	40.000	47.659	
73 Benzo(b)fluoranthene	252.0	13.825	13.825	0.000	3441926	40.000	41.900	
74 Benzo(k)fluoranthene	252.0	13.873	13.873	0.000	3671586	40.000	45.017	
$ 105 Benzo(a)pyrene-d12	264.0	14.338	14.338	0.000	2904263	40.000	42.108	
75 Benzo(a)pyrene	252.0	14.391	14.391	0.000	3597919	40.000	43.513	
* 76 Perylene-d12	264.0	14.471	14.471	0.000	1422795	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.662	16.662	0.000	3597795	40.000	39.957	
78 Dibenzo(a,h)anthracene	278.0	16.662	16.662	0.000	3359193	40.000	41.213	
79 Benzo(g,h,i)perylene	276.0	17.292	17.292	0.000	2512567	40.000	37.492	

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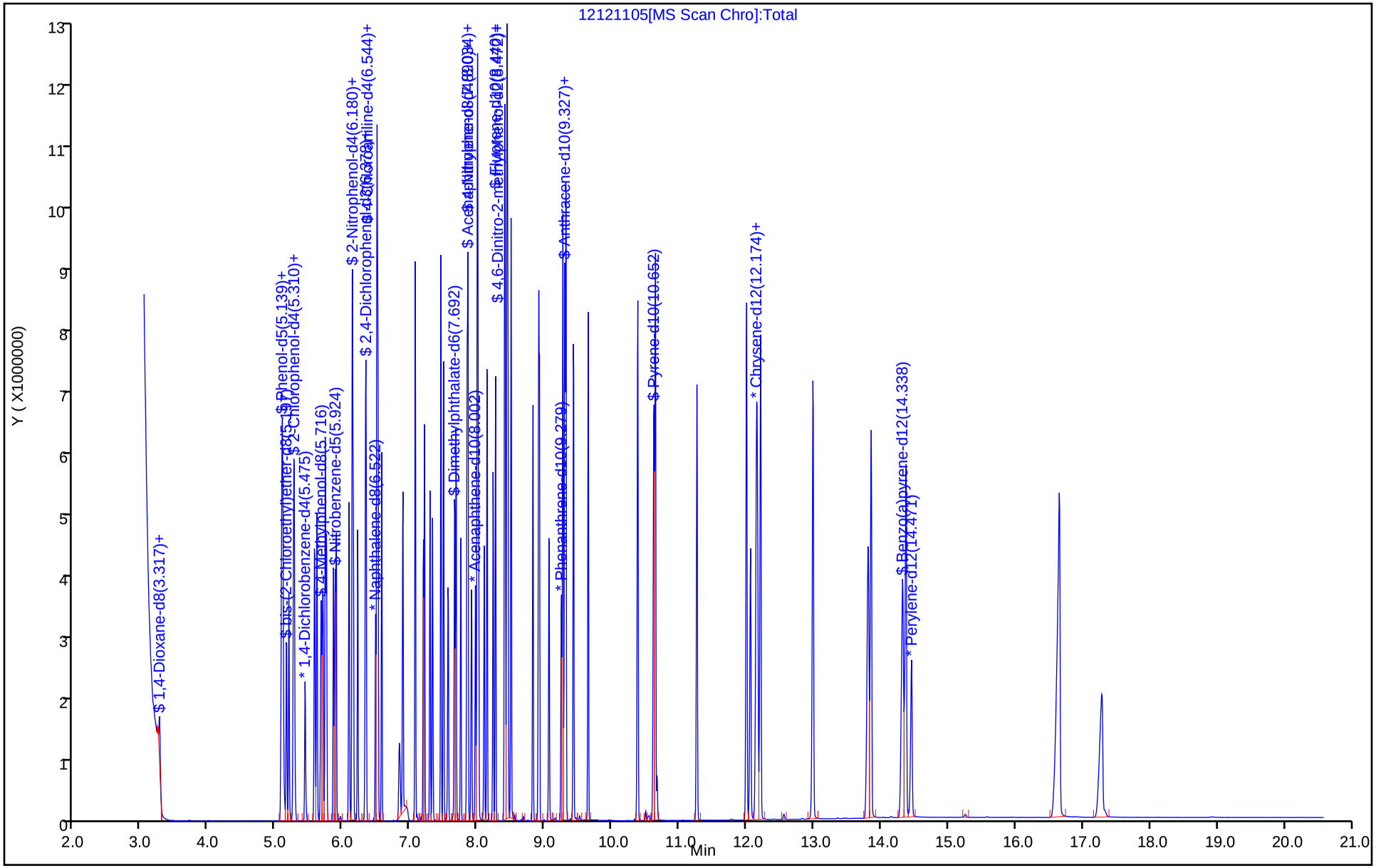
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121105.D				
Injection Date:	11-Dec-2015 10:13:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD040NG	Lab ID:	SSTD040NG		
Sample Info:	12121115.b, SVMS 1682				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 11-Dec-2015 16:07:59 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121106.D		
Lab Sample ID:	SSTD080NG	Client Sample ID:	SSTD080NG
Injection Date:	11-Dec-2015 10:42:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12121115.b, SVMS 1683		
Misc. Info:	L5		
Method:	\\Organics\HH\chem\msd12.i\12121115.b\SOMBNA.m		
Method Date:	11-Dec-2015 15:58:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	Ical, Level: 5	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	11-Dec-2015 15:58:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.139	5.139	0.000	3056263	80.000	91.135	
108 1,4-Dioxane	88.0	3.333	3.333	0.000	500919	32.000	33.993	
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	440384	32.000	35.902	
4 Phenol	94.0	5.150	5.150	0.000	3267339	80.000	89.672	
2 Benzaldehyde	77.0	5.155	5.155	0.000	1338894	80.000	56.598	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.208	5.208	0.000	1954999	80.000	86.431	
5 bis(2-Chloroethyl)Ether	93.0	5.246	5.246	0.000	2465759	80.000	89.958	
$ 6 2-Chlorophenol-d4	132.0	5.310	5.310	0.000	2057014	80.000	92.711	
7 2-Chlorophenol	128.0	5.320	5.320	0.000	2613073	80.000	93.123	
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	366124	20.000	20.000	
10 2-Methylphenol	108.0	5.625	5.625	0.000	2326650	80.000	94.376	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.657	5.657	0.000	4003550	80.000	78.641	
$ 94 4-Methylphenol-d8	113.0	5.732	5.732	0.000	2270518	80.000	93.208	
14 4-Methylphenol	108.0	5.753	5.753	0.000	2541669	80.000	95.030	
13 N-Nitroso-di-n-propylamine	70.0	5.791	5.791	0.000	1838563	80.000	78.536	
12 Acetophenone	105.0	5.807	5.807	0.000	3423208	80.000	91.718	
15 Hexachloroethane	117.0	5.897	5.897	0.000	1052680	80.000	91.287	
$ 16 Nitrobenzene-d5	128.0	5.930	5.930	0.000	1345520	80.000	97.821	
17 Nitrobenzene	77.0	5.951	5.951	0.000	2948123	80.000	85.160	
18 Isophorone	82.0	6.149	6.149	0.000	5040370	80.000	85.642	
20 2,4-Dimethylphenol	107.0	6.186	6.186	0.000	2324786	80.000	77.466	
$ 95 2-Nitrophenol-d4	143.0	6.186	6.186	0.000	1359753	80.000	86.324	
19 2-Nitrophenol	139.0	6.202	6.202	0.000	1478048	80.000	93.056	
21 bis(2-Chloroethoxy)methane	93.0	6.266	6.266	0.000	2846995	80.000	86.599	

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Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121106.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.384	6.384	0.000	2072748	80.000	89.638	
22 2,4-Dichlorophenol	162.0	6.394	6.394	0.000	2074420	80.000	90.305	
* 23 Naphthalene-d8	136.0	6.528	6.528	0.000	1591037	20.000	20.000	
24 Naphthalene	128.0	6.544	6.544	0.000	5956751	80.000	69.459	
$ 97 4-Chloroaniline-d4	131.0	6.560	6.560	0.000	2594907	80.000	74.443	
25 4-Chloroaniline	127.0	6.571	6.571	0.000	3852328	80.000	81.049	
26 Hexachlorobutadiene	225.0	6.619	6.619	0.000	1271478	80.000	89.460	
27 Caprolactam	113.0	6.907	6.907	0.000	552568	80.000	85.415	
28 4-Chloro-3-methylphenol	107.0	6.939	6.939	0.000	2333697	80.000	94.750	
29 2-Methylnaphthalene	142.0	7.115	7.115	0.000	4371477	80.000	78.995	
30 Hexachlorocyclopentadiene	237.0	7.233	7.233	0.000	1573329	80.000	93.698	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.254	7.254	0.000	2165893	80.000	88.182	
31 2,4,6-Trichlorophenol	196.0	7.335	7.335	0.000	1556530	80.000	98.058	
32 2,4,5-Trichlorophenol	196.0	7.377	7.377	0.000	1640310	80.000	98.324	
34 1,1'-Biphenyl	154.0	7.500	7.500	0.000	5004195	80.000	77.911	
35 2-Chloronaphthalene	162.0	7.538	7.538	0.000	4255470	80.000	86.184	
36 2-Nitroaniline	65.0	7.612	7.612	0.000	1731519	80.000	91.543	
$ 98 Dimethylphthalate-d6	166.0	7.708	7.708	0.000	5421612	80.000	95.181	
37 Dimethylphthalate	163.0	7.730	7.730	0.000	5290982	80.000	92.013	
39 2,6-Dinitrotoluene	165.0	7.799	7.799	0.000	1361000	80.000	104.12	
$ 99 Acenaphthylene-d8	160.0	7.885	7.885	0.000	6068201	80.000	80.514	
38 Acenaphthylene	152.0	7.901	7.901	0.000	5914539	80.000	75.205	
40 3-Nitroaniline	138.0	7.960	7.960	0.000	1304565	80.000	95.269	
* 41 Acenaphthene-d10	164.0	8.008	8.008	0.000	872066	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.045	8.045	0.000	874459	80.000	96.144	
42 Acenaphthene	153.0	8.040	8.040	0.000	3812620	80.000	69.903	
$ 100 4-Nitrophenol-d4	143.0	8.072	8.072	0.000	1286643	80.000	92.389	
44 4-Nitrophenol	109.0	8.077	8.077	0.000	795727	80.000	82.658	
46 2,4-Dinitrotoluene	165.0	8.152	8.152	0.000	1831706	80.000	102.53	
45 Dibenzofuran	168.0	8.184	8.184	0.000	5879009	80.000	84.413	
107 2,3,4,6-Tetrachlorophenol	232.0	8.275	8.275	0.000	1484586	80.000	102.45	
47 Diethylphthalate	149.0	8.312	8.312	0.000	5015630	80.000	87.053	
49 4-Chlorophenyl-phenylether	204.0	8.440	8.440	0.000	2013091	80.000	70.186	
$ 101 Fluorene-d10	176.0	8.456	8.456	0.000	3947807	80.000	73.869	
50 4-Nitroaniline	138.0	8.504	8.504	0.000	1016662	80.000	67.379	
48 Fluorene	166.0	8.478	8.478	0.000	4724252	80.000	74.845	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.499	8.499	0.000	1391750	80.000	97.017	
51 4,6-Dinitro-2-methylphenol	198.0	8.510	8.510	0.000	1382305	80.000	100.07	
52 N-Nitrosodiphenylamine	169.0	8.542	8.542	0.000	4485968	80.000	84.351	
54 4-Bromophenyl-phenylether	248.0	8.862	8.862	0.000	1733897	80.000	96.114	
55 Hexachlorobenzene	284.0	8.948	8.948	0.000	1940931	80.000	89.891	
56 Atrazine	200.0	8.964	8.964	0.000	1494101	80.000	77.428	
57 Pentachlorophenol	266.0	9.103	9.103	0.000	1380450	80.000	103.23	
* 58 Phenanthrene-d10	188.0	9.284	9.284	0.000	1576135	20.000	20.000	
59 Phenanthrene	178.0	9.311	9.311	0.000	7215133	80.000	82.211	
$ 103 Anthracene-d10	188.0	9.338	9.338	0.000	6660887	80.000	82.894	
60 Anthracene	178.0	9.359	9.359	0.000	6467925	80.000	72.917	
106 Carbazole	167.0	9.466	9.466	0.000	6084677	80.000	78.508	
62 Di-n-butylphthalate	149.0	9.680	9.680	0.000	6813630	80.000	70.886	
63 Fluoranthene	202.0	10.422	10.422	0.000	7376153	80.000	78.979	
$ 104 Pyrene-d10	212.0	10.657	10.657	0.000	7090282	80.000	81.117	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
64 Pyrene	202.0	10.684	10.684	0.000	7790276	80.000	73.705	
66 Butylbenzylphthalate	149.0	11.298	11.298	0.000	4067018	80.000	87.564	
71 bis(2-Ethylhexyl)phthalate	149.0	12.036	12.036	0.000	5352613	80.000	81.954	
68 3,3'-Dichlorobenzidine	252.0	12.100	12.100	0.000	2823869	80.000	77.151	
67 Benzo(a)anthracene	228.0	12.191	12.191	0.000	8542491	80.000	81.130	
* 69 Chrysene-d12	240.0	12.201	12.201	0.000	2003259	20.000	20.000	
70 Chrysene	228.0	12.249	12.249	0.000	7939914	80.000	79.802	
72 Di-n-octylphthalate	149.0	13.019	13.019	0.000	8888386	80.000	87.526	
73 Benzo(b)fluoranthene	252.0	13.857	13.857	0.000	9780169	80.000	100.52	
74 Benzo(k)fluoranthene	252.0	13.900	13.900	0.000	8128253	80.000	84.147	
$ 105 Benzo(a)pyrene-d12	264.0	14.370	14.370	0.000	7900964	80.000	96.722	
75 Benzo(a)pyrene	252.0	14.424	14.424	0.000	9437913	80.000	96.375	
* 76 Perylene-d12	264.0	14.488	14.488	0.000	1685103	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.721	16.721	0.000	8951615	80.000	83.941	
78 Dibenzo(a,h)anthracene	278.0	16.715	16.715	0.000	8381926	80.000	86.827	
79 Benzo(g,h,i)perylene	276.0	17.335	17.335	0.000	5556329	80.000	70.005	

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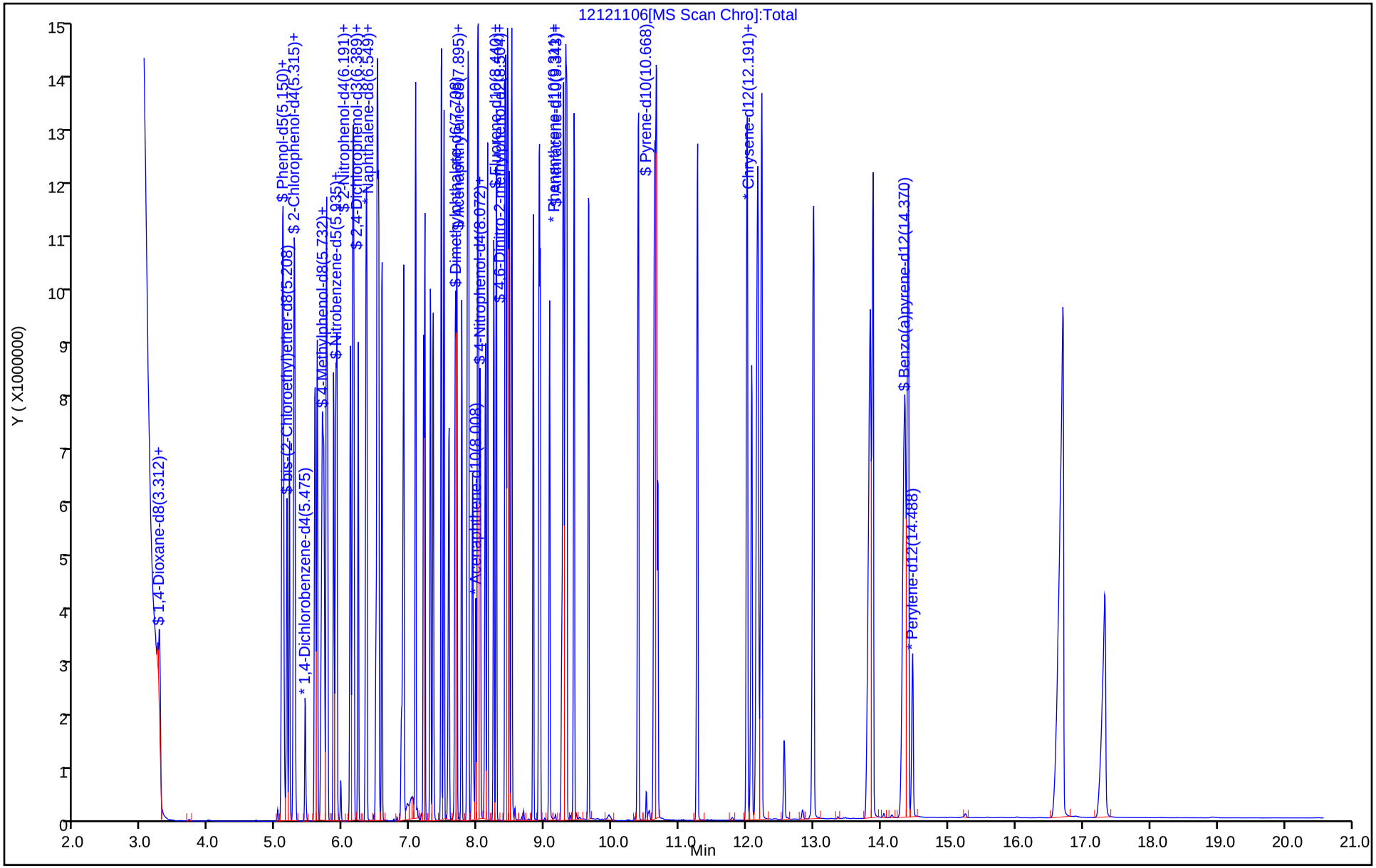
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121106.D				
Injection Date:	11-Dec-2015 10:42:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD080NG	Lab ID:	SSTD080NG		
Sample Info:	12121115.b, SVMS 1683				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Continuing Calibration Data

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 0847

Lab File ID: 12122202 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OV Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
1,4-Dioxane	0.805	0.721	0.010	-10.4	40.0
Benzaldehyde	1.292	1.407	0.100	8.9	40.0
Phenol	1.990	2.022	0.080	1.6	20.0
Bis(2-Chloroethyl) ether	1.497	1.488	0.100	-0.6	20.0
2-Chlorophenol	1.533	1.542	0.200	0.6	20.0
2-Methylphenol	1.347	1.329	0.010	-1.3	20.0
2,2'-Oxybis(1-chloropropane)	2.781	2.661	0.010	-4.3	25.0
Acetophenone	2.039	2.023	0.060	-0.8	20.0
4-Methylphenol	1.461	1.418	0.010	-2.9	20.0
N-Nitroso-di-n propylamine	1.279	1.295	0.080	1.3	25.0
Hexachloroethane	0.630	0.620	0.100	-1.6	20.0
Nitrobenzene	0.435	0.420	0.090	-3.4	20.0
Isophorone	0.740	0.734	0.100	-0.8	20.0
2-Nitrophenol	0.200	0.203	0.060	1.6	20.0
2,4-Dimethylphenol	0.377	0.388	0.050	2.8	25.0
Bis(2-chloroethoxy)methane	0.413	0.414	0.080	0.2	20.0
2,4-Dichlorophenol	0.289	0.291	0.060	0.6	20.0
Naphthalene	1.078	1.201	0.200	11.4	20.0
4-Chloroaniline	0.597	0.640	0.010	7.1	40.0
Hexachlorobutadiene	0.179	0.168	0.040	-6.0	20.0
Caprolactam	0.081	0.072	0.010	-11.5	30.0
4-Chloro-3-methylphenol	0.310	0.305	0.040	-1.5	20.0
2-Methylnaphthalene	0.696	0.748	0.100	7.5	20.0
Hexachlorocyclo-pentadiene	0.385	0.325	0.010	-15.5	40.0
2,4,6-Trichlorophenol	0.364	0.351	0.090	-3.7	20.0
2,4,5-Trichlorophenol	0.383	0.371	0.100	-3.1	20.0
1,1'-Biphenyl	1.473	1.642	0.200	11.5	20.0
2-Chloronaphthalene	1.132	1.199	0.300	5.8	20.0
2-Nitroaniline	0.434	0.446	0.060	2.9	25.0
Dimethylphthalate	1.319	1.389	0.300	5.3	20.0
2,6-Dinitrotoluene	0.300	0.312	0.080	4.1	20.0
Acenaphthylene	1.804	2.029	0.400	12.5	20.0
3-Nitroaniline	0.314	0.331	0.010	5.3	25.0
Acenaphthene	1.251	1.430	0.200	14.3	20.0
2,4-Dinitrophenol	0.209	0.206	0.010	-1.1	50.0
4-Nitrophenol	0.221	0.215	0.010	-2.7	40.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 0847

Lab File ID: 12122202 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OV Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
Dibenzofuran	1.597	1.706	0.300	6.8	20.0
2,4-Dinitrotoluene	0.410	0.430	0.070	5.0	20.0
Diethylphthalate	1.321	1.438	0.300	8.8	20.0
1,2,4,5-Tetrachlorobenzene	0.563	0.575	0.100	2.0	20.0
4-Chlorophenyl-phenyl ether	0.658	0.738	0.100	12.3	20.0
Fluorene	1.448	1.659	0.200	14.6	20.0
4-Nitroaniline	0.346	0.431	0.010	24.7	40.0
4,6-Dinitro-2-methylphenol	0.175	0.169	0.010	-3.5	30.0
4-Bromophenyl-phenylether	0.229	0.226	0.070	-1.4	20.0
N-Nitrosodiphenylamine	0.675	0.713	0.100	5.7	20.0
Hexachlorobenzene	0.274	0.271	0.050	-1.1	20.0
Atrazine	0.245	0.259	0.010	5.9	25.0
Pentachlorophenol	0.170	0.149	0.010	-12.1	40.0
Phenanthrene	1.114	1.204	0.200	8.2	20.0
Anthracene	1.126	1.265	0.200	12.4	20.0
Carbazole	0.983	1.019	0.050	3.6	20.0
Di-n-butylphthalate	1.220	1.372	0.500	12.5	20.0
Fluoranthene	1.185	1.286	0.100	8.5	20.0
Pyrene	1.055	1.178	0.400	11.6	25.0
Butylbenzylphthalate	0.464	0.499	0.100	7.6	25.0
3,3'-Dichlorobenzidine	0.365	0.364	0.010	-0.4	40.0
Benzo(a)anthracene	1.051	1.076	0.300	2.3	20.0
Chrysene	0.993	1.039	0.200	4.5	20.0
Bis(2-ethylhexyl)phthalate	0.652	0.715	0.200	9.7	25.0
Di-n-octylphthalate	1.205	1.332	0.010	10.5	40.0
Benzo(b)fluoranthene	1.155	1.119	0.010	-3.1	25.0
Benzo(k)fluoranthene	1.146	1.199	0.010	4.5	25.0
Benzo(a)pyrene	1.162	1.161	0.010	-0.1	20.0
Indeno(1,2,3-cd)pyrene	1.266	1.210	0.010	-4.4	25.0
Dibenzo(a,h)anthracene	1.146	1.093	0.010	-4.6	25.0
Benzo(g,h,i)perylene	0.942	0.892	0.010	-5.3	30.0
2,3,4,6-Tetrachlorophenol	0.332	0.325	0.040	-2.1	20.0
1,4-Dioxane-d8	0.670	0.632	0.010	-5.7	25.0
Phenol-d5	1.832	1.823	0.010	-0.5	25.0
Bis-(2-chloroethyl)ether-d8	1.236	1.196	0.100	-3.2	20.0
2-Chlorophenol-d4	1.212	1.215	0.200	0.2	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 0847

Lab File ID: 12122202 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OV Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	$\overline{\text{RRF}}$	RRF 20	MIN RRF	%D	MAX %D
4-Methylphenol-d8	1.331	1.314	0.010	-1.2	20.0
4-Chloroaniline-d4	0.438	0.477	0.010	8.9	40.0
Nitrobenzene-d5	0.173	0.170	0.050	-1.7	20.0
2-Nitrophenol-d4	0.198	0.211	0.050	6.8	20.0
2,4-Dichlorophenol-d3	0.291	0.295	0.060	1.4	20.0
Dimethylphthalate-d6	1.306	1.381	0.300	5.7	20.0
Acenaphthylene-d8	1.728	1.883	0.400	8.9	20.0
4-Nitrophenol-d4	0.319	0.326	0.010	2.2	40.0
Fluorene-d10	1.226	1.406	0.100	14.7	20.0
4,6-Dinitro-2-methylphenol-d2	0.182	0.183	0.010	0.4	30.0
Anthracene-d10	1.020	1.072	0.300	5.1	20.0
Pyrene-d10	0.873	0.920	0.300	5.5	25.0
Benzo(a)pyrene-d12	0.970	0.946	0.010	-2.4	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122202.D
Lab Sample ID: SSTD020OV Client Sample ID: SSTD020OV
Injection Date: 22-Dec-2015 08:47:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12122215.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m
Method Date: 22-Dec-2015 16:23:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
2 Benzaldehyde	1.292249	1.407318	0.1	8.9	40	109
$ 3 Phenol-d5	1.831928	1.822755	0.01	-0.5	25	99
4 Phenol	1.990394	2.022441	0.08	1.6	20	102
5 bis(2-Chloroethyl)Ether	1.49731	1.487728	0.1	-0.6	20	99
$ 6 2-Chlorophenol-d4	1.212021	1.214892	0.2	0.2	20	100
7 2-Chlorophenol	1.532837	1.541961	0.2	0.6	20	101
10 2-Methylphenol	1.346697	1.328583	0.01	-1.3	20	99
11 2,2'-oxybis(1-Chloroprop	2.780997	2.660582	0.01	-4.3	25	96
12 Acetophenone	2.038836	2.023076	0.06	-0.8	20	99
13 N-Nitroso-di-n-propylami	1.278818	1.295373	0.08	1.3	25	101
14 4-Methylphenol	1.461029	1.417948	0.01	-2.9	20	97
15 Hexachloroethane	0.629926	0.62011	0.1	-1.6	20	98
$ 16 Nitrobenzene-d5	0.172905	0.170032	0.05	-1.7	20	98
17 Nitrobenzene	0.435173	0.420212	0.09	-3.4	20	97
18 Isophorone	0.739821	0.734227	0.1	-0.8	20	99
19 2-Nitrophenol	0.199661	0.202795	0.06	1.6	20	102
20 2,4-Dimethylphenol	0.377242	0.387761	0.05	2.8	25	103
21 bis(2-Chloroethoxy)metha	0.413262	0.414106	0.08	0.2	20	100
22 2,4-Dichlorophenol	0.288758	0.290579	0.06	0.6	20	101
24 Naphthalene	1.078025	1.201361	0.2	11.4	20	111
25 4-Chloroaniline	0.597483	0.639884	0.01	7.1	40	107
26 Hexachlorobutadiene	0.178661	0.167887	0.04	-6	20	94
27 Caprolactam	0.081321	0.071938	0.01	-11.5	30	88
28 4-Chloro-3-methylphenol	0.309611	0.304993	0.04	-1.5	20	99
29 2-Methylnaphthalene	0.69563	0.747975	0.1	7.5	20	108
30 Hexachlorocyclopentadien	0.385099	0.32536	0.01	-15.5	40	84
31 2,4,6-Trichlorophenol	0.364046	0.35065	0.09	-3.7	20	96
32 2,4,5-Trichlorophenol	0.382601	0.3706	0.1	-3.1	20	97
34 1,1'-Biphenyl	1.473039	1.642313	0.2	11.5	20	111
35 2-Chloronaphthalene	1.132399	1.198637	0.3	5.8	20	106
36 2-Nitroaniline	0.433793	0.446429	0.06	2.9	25	103
37 Dimethylphthalate	1.318765	1.388652	0.3	5.3	20	105
38 Acenaphthylene	1.80366	2.028691	0.4	12.5	20	112
39 2,6-Dinitrotoluene	0.299788	0.311965	0.08	4.1	20	104
40 3-Nitroaniline	0.314048	0.330555	0.01	5.3	25	105

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Acenaphthene	1.250858	1.430321	0.2	14.3	20	114
43 2,4-Dinitrophenol	0.208592	0.206272	0.01	-1.1	50	99
44 4-Nitrophenol	0.220779	0.214888	0.01	-2.7	40	97
45 Dibenzofuran	1.597254	1.706203	0.3	6.8	20	107
46 2,4-Dinitrotoluene	0.409737	0.43034	0.07	5	20	105
47 Diethylphthalate	1.321358	1.437632	0.3	8.8	20	109
92 1,2,4,5-Tetrachlorobenze	0.563295	0.574803	0.1	2	20	102
48 Fluorene	1.447601	1.659489	0.2	14.6	20	115
49 4-Chlorophenyl-phenyleth	0.657798	0.738474	0.1	12.3	20	112
50 4-Nitroaniline	0.346048	0.431424	0.01	24.7	40	125
51 4,6-Dinitro-2-methylphen	0.175287	0.169183	0.01	-3.5	30	97
52 N-Nitrosodiphenylamine	0.674839	0.713338	0.1	5.7	20	106
54 4-Bromophenyl-phenylethe	0.228913	0.225602	0.07	-1.4	20	99
55 Hexachlorobenzene	0.273986	0.271106	0.05	-1.1	20	99
56 Atrazine	0.244859	0.259184	0.01	5.9	25	106
57 Pentachlorophenol	0.169693	0.14924	0.01	-12.1	40	88
59 Phenanthrene	1.113655	1.204489	0.2	8.2	20	108
60 Anthracene	1.125577	1.265405	0.2	12.4	20	112
62 Di-n-butylphthalate	1.21971	1.371853	0.5	12.5	20	112
63 Fluoranthene	1.185101	1.28573	0.1	8.5	20	108
64 Pyrene	1.055238	1.177557	0.4	11.6	25	112
66 Butylbenzylphthalate	0.463706	0.498944	0.1	7.6	25	108
67 Benzo(a)anthracene	1.051229	1.075915	0.3	2.3	20	102
68 3,3'-Dichlorobenzidine	0.365424	0.363834	0.01	-0.4	40	100
70 Chrysene	0.993336	1.038514	0.2	4.5	20	105
71 bis(2-Ethylhexyl)phthala	0.652065	0.715249	0.2	9.7	25	110
72 Di-n-octylphthalate	1.205285	1.332291	0.01	10.5	40	111
73 Benzo(b)fluoranthene	1.154726	1.119142	0.01	-3.1	25	97
74 Benzo(k)fluoranthene	1.146463	1.198578	0.01	4.5	25	105
75 Benzo(a)pyrene	1.162294	1.160703	0.01	-0.1	20	100
77 Indeno(1,2,3-cd)pyrene	1.2657	1.21043	0.01	-4.4	25	96
78 Dibenzo(a,h)anthracene	1.145756	1.093416	0.01	-4.6	25	95
79 Benzo(g,h,i)perylene	0.94203	0.891968	0.01	-5.3	30	95
$ 93 bis-(2-Chloroethyl)ether	1.235609	1.196057	0.1	-3.2	20	97
$ 94 4-Methylphenol-d8	1.330674	1.314137	0.01	-1.2	20	99
$ 95 2-Nitrophenol-d4	0.198006	0.211378	0.05	6.8	20	107
$ 96 2,4-Dichlorophenol-d3	0.290671	0.294756	0.06	1.4	20	101
$ 97 4-Chloroaniline-d4	0.438177	0.477337	0.01	8.9	40	109
$ 98 Dimethylphthalate-d6	1.306354	1.380585	0.3	5.7	20	106
$ 99 Acenaphthylene-d8	1.728495	1.882688	0.4	8.9	20	109
$ 100 4-Nitrophenol-d4	0.319389	0.326316	0.01	2.2	40	102
$ 101 Fluorene-d10	1.225675	1.4063	0.1	14.7	20	115
$ 102 4,6-Dinitro-2-methylphen	0.182033	0.182681	0.01	0.4	30	100
$ 103 Anthracene-d10	1.019638	1.071557	0.3	5.1	20	105
$ 104 Pyrene-d10	0.872662	0.920295	0.3	5.5	25	105
$ 105 Benzo(a)pyrene-d12	0.969526	0.946421	0.01	-2.4	20	98
106 Carbazole	0.983462	1.018597	0.05	3.6	20	104

Report Date: 23-Dec-2015 09:57:54 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122202.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
107 2,3,4,6-Tetrachloropheno	0.332328	0.325296	0.04	-2.1	20	98
108 1,4-Dioxane	0.804964	0.720966	0.01	-10.4	40	90
$ 109 1,4-Dioxane-d8	0.670057	0.631555	0.01	-5.7	25	94

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122202.D		
Lab Sample ID:	SSTD020OV	Client Sample ID:	SSTD020OV
Injection Date:	22-Dec-2015 08:47:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, SVMS 1673		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 13:49:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.122	5.122	0.000	746442	20.000	19.900	
108 1,4-Dioxane	88.0	3.344	3.344	0.000	118098	8.0000	7.1652	
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	103452	8.0000	7.5403	
4 Phenol	94.0	5.133	5.133	0.000	828216	20.000	20.322	
2 Benzaldehyde	77.0	5.144	5.144	0.000	576315	20.000	21.781	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	489801	20.000	19.360	
5 bis(2-Chloroethyl)Ether	93.0	5.229	5.229	0.000	609244	20.000	19.872	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	497514	20.000	20.047	
7 2-Chlorophenol	128.0	5.309	5.309	0.000	631453	20.000	20.119	
* 8 1,4-Dichlorobenzene-d4	152.0	5.475	5.475	0.000	409513	20.000	20.000	
10 2-Methylphenol	108.0	5.614	5.614	0.000	544072	20.000	19.731	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.646	5.646	0.000	1089543	20.000	19.134	
$ 94 4-Methylphenol-d8	113.0	5.710	5.710	0.000	538156	20.000	19.751	
14 4-Methylphenol	108.0	5.737	5.737	0.000	580668	20.000	19.410	
13 N-Nitroso-di-n-propylamine	70.0	5.764	5.764	0.000	530472	20.000	20.259	
12 Acetophenone	105.0	5.785	5.785	0.000	828476	20.000	19.845	
15 Hexachloroethane	117.0	5.892	5.892	0.000	253943	20.000	19.688	
$ 16 Nitrobenzene-d5	128.0	5.918	5.918	0.000	293163	20.000	19.668	
17 Nitrobenzene	77.0	5.935	5.935	0.000	724512	20.000	19.312	
18 Isophorone	82.0	6.116	6.116	0.000	1265924	20.000	19.849	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	668562	20.000	20.558	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	364450	20.000	21.351	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	349650	20.000	20.314	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	713985	20.000	20.041	
$ 96 2,4-Dichlorophenol-d3	165.0	6.367	6.367	0.000	508206	20.000	20.281	

Report Date: 23-Dec-2015 09:57:54 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122202.D

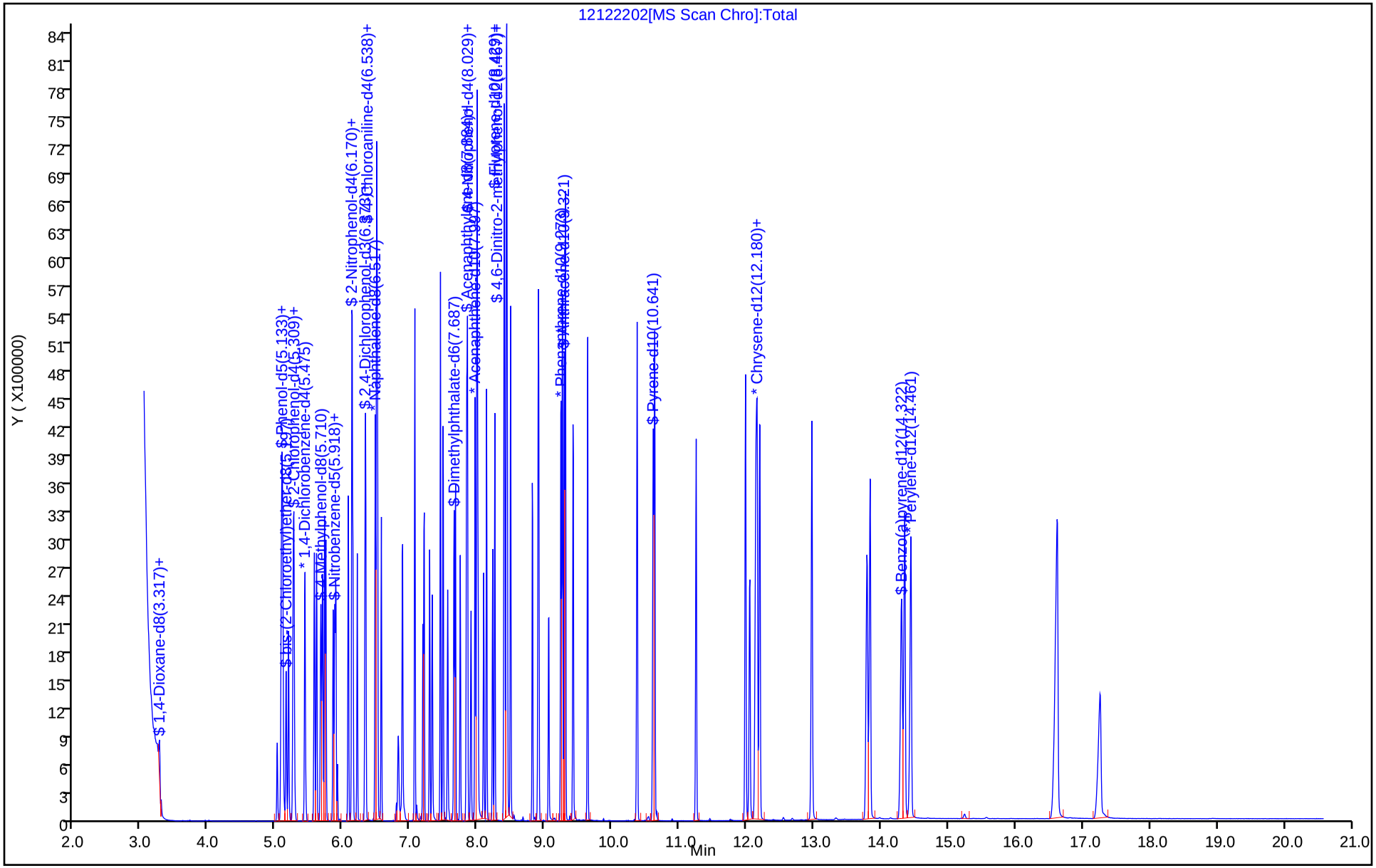
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 2,4-Dichlorophenol	162.0	6.378	6.378	0.000	501004	20.000	20.126	
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1724159	20.000	20.000	
24 Naphthalene	128.0	6.538	6.538	0.000	2071337	20.000	22.288	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	823005	20.000	21.787	
25 4-Chloroaniline	127.0	6.554	6.554	0.000	1103261	20.000	21.419	
26 Hexachlorobutadiene	225.0	6.608	6.608	0.000	289464	20.000	18.794	
27 Caprolactam	113.0	6.859	6.859	0.000	124032	20.000	17.692	
28 4-Chloro-3-methylphenol	107.0	6.923	6.923	0.000	525856	20.000	19.702	
29 2-Methylnaphthalene	142.0	7.104	7.104	0.000	1289627	20.000	21.505	
30 Hexachlorocyclopentadiene	237.0	7.227	7.227	0.000	288928	20.000	16.897	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.243	7.243	0.000	510440	20.000	20.409	
31 2,4,6-Trichlorophenol	196.0	7.323	7.323	0.000	311386	20.000	19.264	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	329102	20.000	19.373	
34 1,1'-Biphenyl	154.0	7.484	7.484	0.000	1458417	20.000	22.298	
35 2-Chloronaphthalene	162.0	7.521	7.521	0.000	1064421	20.000	21.170	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	396441	20.000	20.583	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	1225995	20.000	21.136	
37 Dimethylphthalate	163.0	7.708	7.708	0.000	1233159	20.000	21.060	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	277033	20.000	20.812	
$ 99 Acenaphthylene-d8	160.0	7.874	7.874	0.000	1671876	20.000	21.784	
38 Acenaphthylene	152.0	7.884	7.884	0.000	1801530	20.000	22.495	
40 3-Nitroaniline	138.0	7.938	7.938	0.000	293541	20.000	21.051	
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	888026	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.023	8.023	0.000	183175	20.000	19.778	
42 Acenaphthene	153.0	8.029	8.029	0.000	1270162	20.000	22.869	
$ 100 4-Nitrophenol-d4	143.0	8.034	8.034	0.000	289777	20.000	20.434	
44 4-Nitrophenol	109.0	8.045	8.045	0.000	190826	20.000	19.466	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	382153	20.000	21.006	
45 Dibenzofuran	168.0	8.168	8.168	0.000	1515153	20.000	21.364	
107 2,3,4,6-Tetrachlorophenol	232.0	8.258	8.258	0.000	288871	20.000	19.577	
47 Diethylphthalate	149.0	8.290	8.290	0.000	1276655	20.000	21.760	
49 4-Chlorophenyl-phenylether	204.0	8.429	8.429	0.000	655784	20.000	22.453	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1248831	20.000	22.947	
50 4-Nitroaniline	138.0	8.467	8.467	0.000	383116	20.000	24.934	
48 Fluorene	166.0	8.461	8.461	0.000	1473669	20.000	22.927	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	293124	20.000	20.071	
51 4,6-Dinitro-2-methylphenol	198.0	8.477	8.477	0.000	271465	20.000	19.303	
52 N-Nitrosodiphenylamine	169.0	8.525	8.525	0.000	1144599	20.000	21.141	
54 4-Bromophenyl-phenylether	248.0	8.851	8.851	0.000	361994	20.000	19.711	
55 Hexachlorobenzene	284.0	8.931	8.931	0.000	435008	20.000	19.790	
56 Atrazine	200.0	8.942	8.942	0.000	415879	20.000	21.170	
57 Pentachlorophenol	266.0	9.092	9.092	0.000	239466	20.000	17.589	
* 58 Phenanthrene-d10	188.0	9.273	9.273	0.000	1604568	20.000	20.000	
59 Phenanthrene	178.0	9.295	9.295	0.000	1932685	20.000	21.631	
$ 103 Anthracene-d10	188.0	9.321	9.321	0.000	1719386	20.000	21.018	
60 Anthracene	178.0	9.338	9.338	0.000	2030428	20.000	22.485	
106 Carbazole	167.0	9.450	9.450	0.000	1634408	20.000	20.715	
62 Di-n-butylphthalate	149.0	9.669	9.669	0.000	2201231	20.000	22.495	
63 Fluoranthene	202.0	10.401	10.401	0.000	2063041	20.000	21.698	
$ 104 Pyrene-d10	212.0	10.641	10.641	0.000	1731416	20.000	21.092	
64 Pyrene	202.0	10.662	10.662	0.000	2215420	20.000	22.318	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
66 Butylbenzylphthalate	149.0	11.277	11.277	0.000	938699	20.000	21.520	
71 bis(2-Ethylhexyl)phthalate	149.0	12.009	12.009	0.000	1345648	20.000	21.938	
68 3,3'-Dichlorobenzidine	252.0	12.073	12.073	0.000	684506	20.000	19.913	
67 Benzo(a)anthracene	228.0	12.164	12.164	0.000	2024195	20.000	20.470	
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	1881370	20.000	20.000	
70 Chrysene	228.0	12.222	12.222	0.000	1953830	20.000	20.910	
72 Di-n-octylphthalate	149.0	12.992	12.992	0.000	2318904	20.000	22.107	
73 Benzo(b)fluoranthene	252.0	13.809	13.809	0.000	1947910	20.000	19.384	
74 Benzo(k)fluoranthene	252.0	13.857	13.857	0.000	2086171	20.000	20.909	
$ 105 Benzo(a)pyrene-d12	264.0	14.322	14.322	0.000	1647283	20.000	19.523	
75 Benzo(a)pyrene	252.0	14.370	14.370	0.000	2020249	20.000	19.973	
* 76 Perylene-d12	264.0	14.461	14.461	0.000	1740539	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.619	16.619	0.000	2106801	20.000	19.127	
78 Dibenzo(a,h)anthracene	278.0	16.635	16.635	0.000	1903133	20.000	19.086	
79 Benzo(g,h,i)perylene	276.0	17.271	17.271	0.000	1552505	20.000	18.937	

Report Date: 23-Dec-2015 09:57:54 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122202.D				
Injection Date:	22-Dec-2015 08:47:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020OV	Lab ID:	SSTD020OV		
Sample Info:	12122215.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 1600

Lab File ID: 12122215 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OW Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
1,4-Dioxane	0.805	0.680	0.010	-15.5	40.0
Benzaldehyde	1.292	1.367	0.100	5.8	40.0
Phenol	1.990	1.997	0.080	0.3	20.0
Bis(2-Chloroethyl) ether	1.497	1.479	0.100	-1.2	20.0
2-Chlorophenol	1.533	1.532	0.200	0.0	20.0
2-Methylphenol	1.347	1.329	0.010	-1.3	20.0
2,2'-Oxybis(1-chloropropane)	2.781	2.606	0.010	-6.3	25.0
Acetophenone	2.039	2.002	0.060	-1.8	20.0
4-Methylphenol	1.461	1.431	0.010	-2.0	20.0
N-Nitroso-di-n propylamine	1.279	1.256	0.080	-1.8	25.0
Hexachloroethane	0.630	0.608	0.100	-3.4	20.0
Nitrobenzene	0.435	0.415	0.090	-4.7	20.0
Isophorone	0.740	0.723	0.100	-2.2	20.0
2-Nitrophenol	0.200	0.202	0.060	1.2	20.0
2,4-Dimethylphenol	0.377	0.384	0.050	1.7	25.0
Bis(2-chloroethoxy)methane	0.413	0.414	0.080	0.1	20.0
2,4-Dichlorophenol	0.289	0.296	0.060	2.5	20.0
Naphthalene	1.078	1.186	0.200	10.0	20.0
4-Chloroaniline	0.597	0.635	0.010	6.3	40.0
Hexachlorobutadiene	0.179	0.172	0.040	-3.9	20.0
Caprolactam	0.081	0.075	0.010	-8.2	30.0
4-Chloro-3-methylphenol	0.310	0.306	0.040	-1.0	20.0
2-Methylnaphthalene	0.696	0.749	0.100	7.7	20.0
Hexachlorocyclo-pentadiene	0.385	0.308	0.010	-20.1	40.0
2,4,6-Trichlorophenol	0.364	0.358	0.090	-1.6	20.0
2,4,5-Trichlorophenol	0.383	0.385	0.100	0.6	20.0
1,1'-Biphenyl	1.473	1.622	0.200	10.1	20.0
2-Chloronaphthalene	1.132	1.206	0.300	6.5	20.0
2-Nitroaniline	0.434	0.438	0.060	0.9	25.0
Dimethylphthalate	1.319	1.417	0.300	7.4	20.0
2,6-Dinitrotoluene	0.300	0.317	0.080	5.9	20.0
Acenaphthylene	1.804	2.026	0.400	12.3	20.0
3-Nitroaniline	0.314	0.334	0.010	6.3	25.0
Acenaphthene	1.251	1.409	0.200	12.7	20.0
2,4-Dinitrophenol	0.209	0.199	0.010	-4.5	50.0
4-Nitrophenol	0.221	0.207	0.010	-6.3	40.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 1600

Lab File ID: 12122215 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OW Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
Dibenzofuran	1.597	1.708	0.300	6.9	20.0
2,4-Dinitrotoluene	0.410	0.430	0.070	4.8	20.0
Diethylphthalate	1.321	1.434	0.300	8.6	20.0
1,2,4,5-Tetrachlorobenzene	0.563	0.580	0.100	2.9	20.0
4-Chlorophenyl-phenyl ether	0.658	0.732	0.100	11.3	20.0
Fluorene	1.448	1.643	0.200	13.5	20.0
4-Nitroaniline	0.346	0.426	0.010	23.1	40.0
4,6-Dinitro-2-methylphenol	0.175	0.165	0.010	-5.9	30.0
4-Bromophenyl-phenylether	0.229	0.227	0.070	-0.7	20.0
N-Nitrosodiphenylamine	0.675	0.715	0.100	6.0	20.0
Hexachlorobenzene	0.274	0.273	0.050	-0.3	20.0
Atrazine	0.245	0.258	0.010	5.3	25.0
Pentachlorophenol	0.170	0.154	0.010	-9.3	40.0
Phenanthrene	1.114	1.201	0.200	7.8	20.0
Anthracene	1.126	1.263	0.200	12.2	20.0
Carbazole	0.983	1.017	0.050	3.4	20.0
Di-n-butylphthalate	1.220	1.356	0.500	11.2	20.0
Fluoranthene	1.185	1.264	0.100	6.7	20.0
Pyrene	1.055	1.172	0.400	11.1	25.0
Butylbenzylphthalate	0.464	0.497	0.100	7.1	25.0
3,3'-Dichlorobenzidine	0.365	0.353	0.010	-3.4	40.0
Benzo(a)anthracene	1.051	1.088	0.300	3.5	20.0
Chrysene	0.993	1.040	0.200	4.7	20.0
Bis(2-ethylhexyl)phthalate	0.652	0.723	0.200	10.9	25.0
Di-n-octylphthalate	1.205	1.316	0.010	9.2	40.0
Benzo(b)fluoranthene	1.155	1.132	0.010	-2.0	25.0
Benzo(k)fluoranthene	1.146	1.156	0.010	0.8	25.0
Benzo(a)pyrene	1.162	1.153	0.010	-0.8	20.0
Indeno(1,2,3-cd)pyrene	1.266	1.184	0.010	-6.5	25.0
Dibenzo(a,h)anthracene	1.146	1.080	0.010	-5.7	25.0
Benzo(g,h,i)perylene	0.942	0.860	0.010	-8.7	30.0
2,3,4,6-Tetrachlorophenol	0.332	0.333	0.040	0.1	20.0
1,4-Dioxane-d8	0.670	0.612	0.010	-8.7	25.0
Phenol-d5	1.832	1.819	0.010	-0.7	25.0
Bis-(2-chloroethyl)ether-d8	1.236	1.162	0.100	-6.0	20.0
2-Chlorophenol-d4	1.212	1.199	0.200	-1.0	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 1600

Lab File ID: 12122215 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OW Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
4-Methylphenol-d8	1.331	1.312	0.010	-1.4	20.0
4-Chloroaniline-d4	0.438	0.471	0.010	7.4	40.0
Nitrobenzene-d5	0.173	0.174	0.050	0.5	20.0
2-Nitrophenol-d4	0.198	0.211	0.050	6.6	20.0
2,4-Dichlorophenol-d3	0.291	0.300	0.060	3.1	20.0
Dimethylphthalate-d6	1.306	1.388	0.300	6.2	20.0
Acenaphthylene-d8	1.728	1.878	0.400	8.7	20.0
4-Nitrophenol-d4	0.319	0.333	0.010	4.2	40.0
Fluorene-d10	1.226	1.394	0.100	13.8	20.0
4,6-Dinitro-2-methylphenol-d2	0.182	0.177	0.010	-3.0	30.0
Anthracene-d10	1.020	1.079	0.300	5.8	20.0
Pyrene-d10	0.873	0.917	0.300	5.1	25.0
Benzo(a)pyrene-d12	0.970	0.941	0.010	-2.9	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122215.D		
Lab Sample ID:	SSTD020OW	Client Sample ID:	SSTD020OW
Injection Date:	22-Dec-2015 16:00:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, SVMS 1673		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
2 Benzaldehyde	1.292249	1.367116	0.1	5.8	40	106
$ 3 Phenol-d5	1.831928	1.819456	0.01	-0.7	25	99
4 Phenol	1.990394	1.9972	0.08	0.3	20	100
5 bis(2-Chloroethyl)Ether	1.49731	1.478627	0.1	-1.2	20	99
$ 6 2-Chlorophenol-d4	1.212021	1.19934	0.2	-1	20	99
7 2-Chlorophenol	1.532837	1.532144	0.2	0	20	100
10 2-Methylphenol	1.346697	1.328679	0.01	-1.3	20	99
11 2,2'-oxybis(1-Chloroprop	2.780997	2.605652	0.01	-6.3	25	94
12 Acetophenone	2.038836	2.001669	0.06	-1.8	20	98
13 N-Nitroso-di-n-propylami	1.278818	1.256402	0.08	-1.8	25	98
14 4-Methylphenol	1.461029	1.431438	0.01	-2	20	98
15 Hexachloroethane	0.629926	0.608417	0.1	-3.4	20	97
$ 16 Nitrobenzene-d5	0.172905	0.173826	0.05	0.5	20	101
17 Nitrobenzene	0.435173	0.414512	0.09	-4.7	20	95
18 Isophorone	0.739821	0.723462	0.1	-2.2	20	98
19 2-Nitrophenol	0.199661	0.202016	0.06	1.2	20	101
20 2,4-Dimethylphenol	0.377242	0.383672	0.05	1.7	25	102
21 bis(2-Chloroethoxy)metha	0.413262	0.413546	0.08	0.1	20	100
22 2,4-Dichlorophenol	0.288758	0.295971	0.06	2.5	20	102
24 Naphthalene	1.078025	1.186302	0.2	10	20	110
25 4-Chloroaniline	0.597483	0.635264	0.01	6.3	40	106
26 Hexachlorobutadiene	0.178661	0.171767	0.04	-3.9	20	96
27 Caprolactam	0.081321	0.074622	0.01	-8.2	30	92
28 4-Chloro-3-methylphenol	0.309611	0.306428	0.04	-1	20	99
29 2-Methylnaphthalene	0.69563	0.749356	0.1	7.7	20	108
30 Hexachlorocyclopentadien	0.385099	0.307729	0.01	-20.1	40	80
31 2,4,6-Trichlorophenol	0.364046	0.358382	0.09	-1.6	20	98
32 2,4,5-Trichlorophenol	0.382601	0.385035	0.1	0.6	20	101
34 1,1'-Biphenyl	1.473039	1.622249	0.2	10.1	20	110
35 2-Chloronaphthalene	1.132399	1.205791	0.3	6.5	20	106
36 2-Nitroaniline	0.433793	0.437829	0.06	0.9	25	101
37 Dimethylphthalate	1.318765	1.416792	0.3	7.4	20	107
38 Acenaphthylene	1.80366	2.025979	0.4	12.3	20	112
39 2,6-Dinitrotoluene	0.299788	0.317339	0.08	5.9	20	106
40 3-Nitroaniline	0.314048	0.333943	0.01	6.3	25	106

Report Date: 23-Dec-2015 09:58:04 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122215.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Acenaphthene	1.250858	1.409181	0.2	12.7	20	113
43 2,4-Dinitrophenol	0.208592	0.199298	0.01	-4.5	50	96
44 4-Nitrophenol	0.220779	0.206833	0.01	-6.3	40	94
45 Dibenzofuran	1.597254	1.707828	0.3	6.9	20	107
46 2,4-Dinitrotoluene	0.409737	0.429577	0.07	4.8	20	105
47 Diethylphthalate	1.321358	1.434499	0.3	8.6	20	109
92 1,2,4,5-Tetrachlorobenze	0.563295	0.57965	0.1	2.9	20	103
48 Fluorene	1.447601	1.643224	0.2	13.5	20	114
49 4-Chlorophenyl-phenyleth	0.657798	0.731964	0.1	11.3	20	111
50 4-Nitroaniline	0.346048	0.426157	0.01	23.1	40	123
51 4,6-Dinitro-2-methylphen	0.175287	0.164906	0.01	-5.9	30	94
52 N-Nitrosodiphenylamine	0.674839	0.715003	0.1	6	20	106
54 4-Bromophenyl-phenylethe	0.228913	0.227228	0.07	-0.7	20	99
55 Hexachlorobenzene	0.273986	0.273042	0.05	-0.3	20	100
56 Atrazine	0.244859	0.25773	0.01	5.3	25	105
57 Pentachlorophenol	0.169693	0.153948	0.01	-9.3	40	91
59 Phenanthrene	1.113655	1.200644	0.2	7.8	20	108
60 Anthracene	1.125577	1.263387	0.2	12.2	20	112
62 Di-n-butylphthalate	1.21971	1.356216	0.5	11.2	20	111
63 Fluoranthene	1.185101	1.264422	0.1	6.7	20	107
64 Pyrene	1.055238	1.172151	0.4	11.1	25	111
66 Butylbenzylphthalate	0.463706	0.496605	0.1	7.1	25	107
67 Benzo(a)anthracene	1.051229	1.088079	0.3	3.5	20	104
68 3,3'-Dichlorobenzidine	0.365424	0.352901	0.01	-3.4	40	97
70 Chrysene	0.993336	1.040206	0.2	4.7	20	105
71 bis(2-Ethylhexyl)phthala	0.652065	0.723359	0.2	10.9	25	111
72 Di-n-octylphthalate	1.205285	1.316487	0.01	9.2	40	109
73 Benzo(b)fluoranthene	1.154726	1.132001	0.01	-2	25	98
74 Benzo(k)fluoranthene	1.146463	1.155802	0.01	0.8	25	101
75 Benzo(a)pyrene	1.162294	1.152711	0.01	-0.8	20	99
77 Indeno(1,2,3-cd)pyrene	1.2657	1.183845	0.01	-6.5	25	94
78 Dibenzo(a,h)anthracene	1.145756	1.080458	0.01	-5.7	25	94
79 Benzo(g,h,i)perylene	0.94203	0.859969	0.01	-8.7	30	91
$ 93 bis-(2-Chloroethyl)ether	1.235609	1.161812	0.1	-6	20	94
$ 94 4-Methylphenol-d8	1.330674	1.311624	0.01	-1.4	20	99
$ 95 2-Nitrophenol-d4	0.198006	0.210981	0.05	6.6	20	107
$ 96 2,4-Dichlorophenol-d3	0.290671	0.299729	0.06	3.1	20	103
$ 97 4-Chloroaniline-d4	0.438177	0.470786	0.01	7.4	40	107
$ 98 Dimethylphthalate-d6	1.306354	1.387932	0.3	6.2	20	106
$ 99 Acenaphthylene-d8	1.728495	1.878205	0.4	8.7	20	109
$ 100 4-Nitrophenol-d4	0.319389	0.332865	0.01	4.2	40	104
$ 101 Fluorene-d10	1.225675	1.394457	0.1	13.8	20	114
$ 102 4,6-Dinitro-2-methylphen	0.182033	0.176573	0.01	-3	30	97
$ 103 Anthracene-d10	1.019638	1.078503	0.3	5.8	20	106
$ 104 Pyrene-d10	0.872662	0.916789	0.3	5.1	25	105
$ 105 Benzo(a)pyrene-d12	0.969526	0.941447	0.01	-2.9	20	97
106 Carbazole	0.983462	1.017091	0.05	3.4	20	103

Report Date: 23-Dec-2015 09:58:04 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122215.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
107 2,3,4,6-Tetrachloropheno	0.332328	0.332522	0.04	0.1	20	100
108 1,4-Dioxane	0.804964	0.680301	0.01	-15.5	40	85
$ 109 1,4-Dioxane-d8	0.670057	0.611689	0.01	-8.7	25	91

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122215.D		
Lab Sample ID:	SSTD020OW	Client Sample ID:	SSTD020OW
Injection Date:	22-Dec-2015 16:00:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122215.b, SVMS 1673		
Method:	\\Organics\HH\chem\msd12.i\12122215.b\SOMBNA.m		
Method Date:	22-Dec-2015 16:23:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	22-Dec-2015 16:23:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	870124	20.000	19.864	
108 1,4-Dioxane	88.0	3.344	3.344	0.000	130137	8.0000	6.7611	
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	117012	8.0000	7.3031	
4 Phenol	94.0	5.134	5.134	0.000	955127	20.000	20.068	
2 Benzaldehyde	77.0	5.144	5.144	0.000	653800	20.000	21.159	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	555617	20.000	18.806	
5 bis(2-Chloroethyl)Ether	93.0	5.230	5.230	0.000	707128	20.000	19.750	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	573564	20.000	19.791	
7 2-Chlorophenol	128.0	5.310	5.310	0.000	732722	20.000	19.991	
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	478233	20.000	20.000	
10 2-Methylphenol	108.0	5.614	5.614	0.000	635418	20.000	19.732	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.646	5.646	0.000	1246109	20.000	18.739	
$ 94 4-Methylphenol-d8	113.0	5.710	5.710	0.000	627262	20.000	19.714	
14 4-Methylphenol	108.0	5.732	5.732	0.000	684561	20.000	19.595	
13 N-Nitroso-di-n-propylamine	70.0	5.764	5.764	0.000	600853	20.000	19.649	
12 Acetophenone	105.0	5.785	5.785	0.000	957264	20.000	19.635	
15 Hexachloroethane	117.0	5.892	5.892	0.000	290965	20.000	19.317	
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	346150	20.000	20.106	
17 Nitrobenzene	77.0	5.930	5.930	0.000	825443	20.000	19.050	
18 Isophorone	82.0	6.116	6.116	0.000	1440675	20.000	19.558	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	764031	20.000	20.341	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	420139	20.000	21.311	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	402287	20.000	20.236	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	823520	20.000	20.014	
$ 96 2,4-Dichlorophenol-d3	165.0	6.368	6.368	0.000	596870	20.000	20.623	

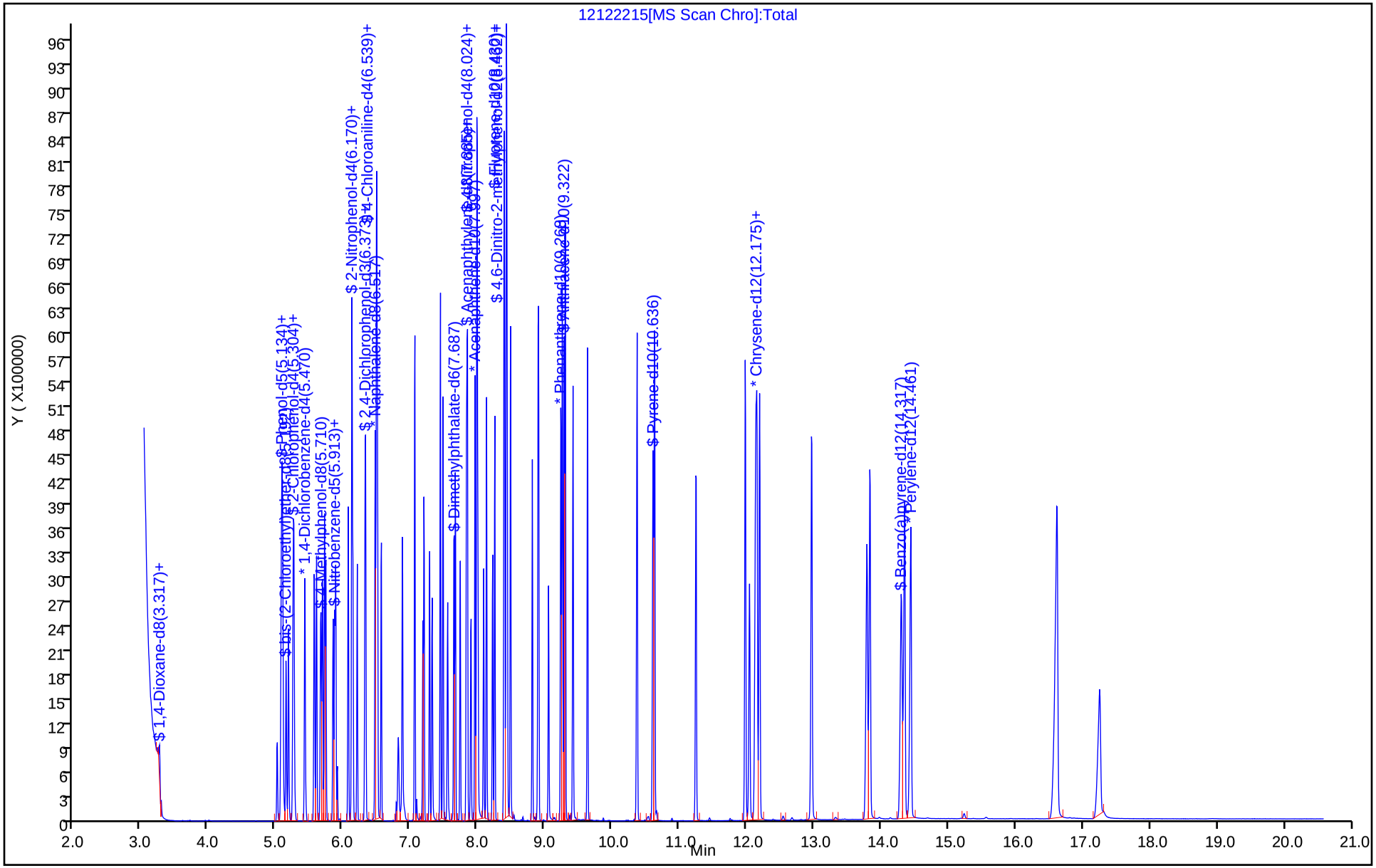
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 2,4-Dichlorophenol	162.0	6.373	6.373	0.000	589385	20.000	20.500	
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	1991363	20.000	20.000	
24 Naphthalene	128.0	6.533	6.533	0.000	2362358	20.000	22.009	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	937506	20.000	21.488	
25 4-Chloroaniline	127.0	6.549	6.549	0.000	1265042	20.000	21.265	
26 Hexachlorobutadiene	225.0	6.608	6.608	0.000	342050	20.000	19.228	
27 Caprolactam	113.0	6.859	6.859	0.000	148600	20.000	18.353	
28 4-Chloro-3-methylphenol	107.0	6.918	6.918	0.000	610209	20.000	19.794	
29 2-Methylnaphthalene	142.0	7.105	7.105	0.000	1492239	20.000	21.545	
30 Hexachlorocyclopentadiene	237.0	7.222	7.222	0.000	320867	20.000	15.982	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.238	7.238	0.000	604398	20.000	20.581	
31 2,4,6-Trichlorophenol	196.0	7.324	7.324	0.000	373683	20.000	19.689	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	401474	20.000	20.127	
34 1,1'-Biphenyl	154.0	7.484	7.484	0.000	1691511	20.000	22.026	
35 2-Chloronaphthalene	162.0	7.522	7.522	0.000	1257272	20.000	21.296	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	456522	20.000	20.186	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	1447190	20.000	21.249	
37 Dimethylphthalate	163.0	7.703	7.703	0.000	1477282	20.000	21.487	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	330888	20.000	21.171	
$ 99 Acenaphthylene-d8	160.0	7.869	7.869	0.000	1958395	20.000	21.732	
38 Acenaphthylene	152.0	7.885	7.885	0.000	2112478	20.000	22.465	
40 3-Nitroaniline	138.0	7.938	7.938	0.000	348201	20.000	21.267	
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	1042695	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.018	8.018	0.000	207807	20.000	19.109	
42 Acenaphthene	153.0	8.024	8.024	0.000	1469346	20.000	22.531	
$ 100 4-Nitrophenol-d4	143.0	8.034	8.034	0.000	347077	20.000	20.844	
44 4-Nitrophenol	109.0	8.040	8.040	0.000	215664	20.000	18.737	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	447918	20.000	20.968	
45 Dibenzofuran	168.0	8.168	8.168	0.000	1780744	20.000	21.385	
107 2,3,4,6-Tetrachlorophenol	232.0	8.259	8.259	0.000	346719	20.000	20.012	
47 Diethylphthalate	149.0	8.291	8.291	0.000	1495745	20.000	21.713	
49 4-Chlorophenyl-phenylether	204.0	8.424	8.424	0.000	763215	20.000	22.255	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1453993	20.000	22.754	
50 4-Nitroaniline	138.0	8.467	8.467	0.000	444352	20.000	24.630	
48 Fluorene	166.0	8.462	8.462	0.000	1713381	20.000	22.703	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	335724	20.000	19.400	
51 4,6-Dinitro-2-methylphenol	198.0	8.478	8.478	0.000	313542	20.000	18.816	
52 N-Nitrosodiphenylamine	169.0	8.526	8.526	0.000	1359462	20.000	21.190	
54 4-Bromophenyl-phenylether	248.0	8.846	8.846	0.000	432037	20.000	19.853	
55 Hexachlorobenzene	284.0	8.932	8.932	0.000	519144	20.000	19.931	
56 Atrazine	200.0	8.943	8.943	0.000	490032	20.000	21.051	
57 Pentachlorophenol	266.0	9.087	9.087	0.000	292707	20.000	18.144	
* 58 Phenanthrene-d10	188.0	9.268	9.268	0.000	1901337	20.000	20.000	
59 Phenanthrene	178.0	9.290	9.290	0.000	2282828	20.000	21.562	
$ 103 Anthracene-d10	188.0	9.316	9.316	0.000	2050598	20.000	21.155	
60 Anthracene	178.0	9.338	9.338	0.000	2402125	20.000	22.449	
106 Carbazole	167.0	9.450	9.450	0.000	1933833	20.000	20.684	
62 Di-n-butylphthalate	149.0	9.664	9.664	0.000	2578623	20.000	22.238	
63 Fluoranthene	202.0	10.401	10.401	0.000	2404092	20.000	21.339	
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2036087	20.000	21.011	
64 Pyrene	202.0	10.663	10.663	0.000	2603217	20.000	22.216	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
66 Butylbenzylphthalate	149.0	11.277	11.277	0.000	1102905	20.000	21.419	
71 bis(2-Ethylhexyl)phthalate	149.0	12.004	12.004	0.000	1606500	20.000	22.187	
68 3,3'-Dichlorobenzidine	252.0	12.068	12.068	0.000	783755	20.000	19.315	
67 Benzo(a)anthracene	228.0	12.159	12.159	0.000	2416503	20.000	20.701	
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	2220889	20.000	20.000	
70 Chrysene	228.0	12.217	12.217	0.000	2310182	20.000	20.944	
72 Di-n-octylphthalate	149.0	12.992	12.992	0.000	2759831	20.000	21.845	
73 Benzo(b)fluoranthene	252.0	13.809	13.809	0.000	2373082	20.000	19.606	
74 Benzo(k)fluoranthene	252.0	13.852	13.852	0.000	2422979	20.000	20.163	
$ 105 Benzo(a)pyrene-d12	264.0	14.317	14.317	0.000	1973613	20.000	19.421	
75 Benzo(a)pyrene	252.0	14.370	14.370	0.000	2416498	20.000	19.835	
* 76 Perylene-d12	264.0	14.461	14.461	0.000	2096361	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.619	16.619	0.000	2481767	20.000	18.707	
78 Dibenzo(a,h)anthracene	278.0	16.630	16.630	0.000	2265031	20.000	18.860	
79 Benzo(g,h,i)perylene	276.0	17.260	17.260	0.000	1802805	20.000	18.258	

Report Date: 23-Dec-2015 09:58:04 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122215.D				
Injection Date:	22-Dec-2015 16:00:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020OW	Lab ID:	SSTD020OW		
Sample Info:	12122215.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 2030

Lab File ID: 12122224 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OX Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
1,4-Dioxane	0.805	0.684	0.010	-15.0	40.0
Benzaldehyde	1.292	1.116	0.100	-13.7	40.0
Phenol	1.990	2.008	0.080	0.9	20.0
Bis(2-Chloroethyl) ether	1.497	1.479	0.100	-1.2	20.0
2-Chlorophenol	1.533	1.545	0.200	0.8	20.0
2-Methylphenol	1.347	1.341	0.010	-0.4	20.0
2,2'-Oxybis(1-chloropropane)	2.781	2.589	0.010	-6.9	25.0
Acetophenone	2.039	1.995	0.060	-2.1	20.0
4-Methylphenol	1.461	1.444	0.010	-1.2	20.0
N-Nitroso-di-n propylamine	1.279	1.258	0.080	-1.6	25.0
Hexachloroethane	0.630	0.598	0.100	-5.1	20.0
Nitrobenzene	0.435	0.417	0.090	-4.2	20.0
Isophorone	0.740	0.737	0.100	-0.4	20.0
2-Nitrophenol	0.200	0.208	0.060	4.1	20.0
2,4-Dimethylphenol	0.377	0.383	0.050	1.6	25.0
Bis(2-chloroethoxy)methane	0.413	0.417	0.080	1.0	20.0
2,4-Dichlorophenol	0.289	0.298	0.060	3.2	20.0
Naphthalene	1.078	1.170	0.200	8.6	20.0
4-Chloroaniline	0.597	0.625	0.010	4.6	40.0
Hexachlorobutadiene	0.179	0.172	0.040	-3.8	20.0
Caprolactam	0.081	0.078	0.010	-3.8	30.0
4-Chloro-3-methylphenol	0.310	0.311	0.040	0.5	20.0
2-Methylnaphthalene	0.696	0.747	0.100	7.4	20.0
Hexachlorocyclo-pentadiene	0.385	0.206	0.010	-46.4	50.0
2,4,6-Trichlorophenol	0.364	0.373	0.090	2.5	20.0
2,4,5-Trichlorophenol	0.383	0.400	0.100	4.6	20.0
1,1'-Biphenyl	1.473	1.646	0.200	11.7	20.0
2-Chloronaphthalene	1.132	1.220	0.300	7.7	20.0
2-Nitroaniline	0.434	0.441	0.060	1.7	25.0
Dimethylphthalate	1.319	1.433	0.300	8.6	20.0
2,6-Dinitrotoluene	0.300	0.323	0.080	7.7	20.0
Acenaphthylene	1.804	2.045	0.400	13.4	20.0
3-Nitroaniline	0.314	0.328	0.010	4.5	25.0
Acenaphthene	1.251	1.395	0.200	11.5	20.0
2,4-Dinitrophenol	0.209	0.226	0.010	8.3	50.0
4-Nitrophenol	0.221	0.203	0.010	-8.0	40.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 2030

Lab File ID: 12122224 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OX Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
Dibenzofuran	1.597	1.735	0.300	8.6	20.0
2,4-Dinitrotoluene	0.410	0.442	0.070	7.8	20.0
Diethylphthalate	1.321	1.443	0.300	9.2	20.0
1,2,4,5-Tetrachlorobenzene	0.563	0.585	0.100	3.9	20.0
4-Chlorophenyl-phenyl ether	0.658	0.741	0.100	12.6	20.0
Fluorene	1.448	1.627	0.200	12.4	20.0
4-Nitroaniline	0.346	0.332	0.010	-4.0	40.0
4,6-Dinitro-2-methylphenol	0.175	0.170	0.010	-2.9	30.0
4-Bromophenyl-phenylether	0.229	0.227	0.070	-1.0	20.0
N-Nitrosodiphenylamine	0.675	0.708	0.100	4.9	20.0
Hexachlorobenzene	0.274	0.271	0.050	-0.9	20.0
Atrazine	0.245	0.246	0.010	0.4	25.0
Pentachlorophenol	0.170	0.160	0.010	-5.4	40.0
Phenanthrene	1.114	1.177	0.200	5.7	20.0
Anthracene	1.126	1.239	0.200	10.1	20.0
Carbazole	0.983	0.996	0.050	1.3	20.0
Di-n-butylphthalate	1.220	1.340	0.500	9.9	20.0
Fluoranthene	1.185	1.259	0.100	6.3	20.0
Pyrene	1.055	1.149	0.400	8.9	25.0
Butylbenzylphthalate	0.464	0.497	0.100	7.2	25.0
3,3'-Dichlorobenzidine	0.365	0.338	0.010	-7.4	40.0
Benzo(a)anthracene	1.051	1.083	0.300	3.0	20.0
Chrysene	0.993	1.041	0.200	4.8	20.0
Bis(2-ethylhexyl)phthalate	0.652	0.720	0.200	10.3	25.0
Di-n-octylphthalate	1.205	1.338	0.010	11.0	40.0
Benzo(b)fluoranthene	1.155	1.130	0.010	-2.1	25.0
Benzo(k)fluoranthene	1.146	1.216	0.010	6.1	25.0
Benzo(a)pyrene	1.162	1.169	0.010	0.6	20.0
Indeno(1,2,3-cd)pyrene	1.266	1.066	0.010	-15.8	25.0
Dibenzo(a,h)anthracene	1.146	0.972	0.010	-15.2	25.0
Benzo(g,h,i)perylene	0.942	0.743	0.010	-21.1	30.0
2,3,4,6-Tetrachlorophenol	0.332	0.344	0.040	3.7	20.0
1,4-Dioxane-d8	0.670	0.615	0.010	-8.2	25.0
Phenol-d5	1.832	1.861	0.010	1.6	25.0
Bis-(2-chloroethyl)ether-d8	1.236	1.158	0.100	-6.3	20.0
2-Chlorophenol-d4	1.212	1.216	0.200	0.3	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/22/2015 Time: 2030

Lab File ID: 12122224 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OX Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
4-Methylphenol-d8	1.331	1.328	0.010	-0.2	20.0
4-Chloroaniline-d4	0.438	0.455	0.010	3.8	40.0
Nitrobenzene-d5	0.173	0.175	0.050	1.0	20.0
2-Nitrophenol-d4	0.198	0.214	0.050	7.9	20.0
2,4-Dichlorophenol-d3	0.291	0.302	0.060	3.9	20.0
Dimethylphthalate-d6	1.306	1.413	0.300	8.1	20.0
Acenaphthylene-d8	1.728	1.890	0.400	9.3	20.0
4-Nitrophenol-d4	0.319	0.331	0.010	3.6	40.0
Fluorene-d10	1.226	1.393	0.100	13.6	20.0
4,6-Dinitro-2-methylphenol-d2	0.182	0.181	0.010	-0.5	30.0
Anthracene-d10	1.020	1.076	0.300	5.5	20.0
Pyrene-d10	0.873	0.904	0.300	3.6	25.0
Benzo(a)pyrene-d12	0.970	0.958	0.010	-1.2	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122224.D
Lab Sample ID: SSTD020OX Client Sample ID: SSTD020OX
Injection Date: 22-Dec-2015 20:30:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12122215.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12122215.b\SOMBNA-end.m
Method Date: 23-Dec-2015 09:57:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
2 Benzaldehyde	1.292249	1.115563	0.1	-13.7	40	86
$ 3 Phenol-d5	1.831928	1.861454	0.01	1.6	25	102
4 Phenol	1.990394	2.007765	0.08	0.9	20	101
5 bis(2-Chloroethyl)Ether	1.49731	1.478934	0.1	-1.2	20	99
$ 6 2-Chlorophenol-d4	1.212021	1.215842	0.2	0.3	20	100
7 2-Chlorophenol	1.532837	1.544903	0.2	0.8	20	101
10 2-Methylphenol	1.346697	1.341009	0.01	-0.4	20	100
11 2,2'-oxybis(1-Chloroprop	2.780997	2.588505	0.01	-6.9	25	93
12 Acetophenone	2.038836	1.995024	0.06	-2.1	20	98
13 N-Nitroso-di-n-propylami	1.278818	1.258363	0.08	-1.6	25	98
14 4-Methylphenol	1.461029	1.443536	0.01	-1.2	20	99
15 Hexachloroethane	0.629926	0.597583	0.1	-5.1	20	95
$ 16 Nitrobenzene-d5	0.172905	0.174566	0.05	1	20	101
17 Nitrobenzene	0.435173	0.417092	0.09	-4.2	20	96
18 Isophorone	0.739821	0.737224	0.1	-0.4	20	100
19 2-Nitrophenol	0.199661	0.207901	0.06	4.1	20	104
20 2,4-Dimethylphenol	0.377242	0.383464	0.05	1.6	25	102
21 bis(2-Chloroethoxy)metha	0.413262	0.417279	0.08	1	20	101
22 2,4-Dichlorophenol	0.288758	0.297893	0.06	3.2	20	103
24 Naphthalene	1.078025	1.170227	0.2	8.6	20	109
25 4-Chloroaniline	0.597483	0.625115	0.01	4.6	40	105
26 Hexachlorobutadiene	0.178661	0.171841	0.04	-3.8	20	96
27 Caprolactam	0.081321	0.078223	0.01	-3.8	30	96
28 4-Chloro-3-methylphenol	0.309611	0.311211	0.04	0.5	20	101
29 2-Methylnaphthalene	0.69563	0.747032	0.1	7.4	20	107
30 Hexachlorocyclopentadien	0.385099	0.206437	0.01	-46.4	50	54
31 2,4,6-Trichlorophenol	0.364046	0.373134	0.09	2.5	20	102
32 2,4,5-Trichlorophenol	0.382601	0.400216	0.1	4.6	20	105
34 1,1'-Biphenyl	1.473039	1.645879	0.2	11.7	20	112
35 2-Chloronaphthalene	1.132399	1.219667	0.3	7.7	20	108
36 2-Nitroaniline	0.433793	0.441059	0.06	1.7	25	102
37 Dimethylphthalate	1.318765	1.432662	0.3	8.6	20	109
38 Acenaphthylene	1.80366	2.044893	0.4	13.4	20	113
39 2,6-Dinitrotoluene	0.299788	0.32279	0.08	7.7	20	108
40 3-Nitroaniline	0.314048	0.328123	0.01	4.5	25	104

Report Date: 23-Dec-2015 09:58:12 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122224.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Acenaphthene	1.250858	1.394746	0.2	11.5	20	112
43 2,4-Dinitrophenol	0.208592	0.225926	0.01	8.3	50	108
44 4-Nitrophenol	0.220779	0.203221	0.01	-8	40	92
45 Dibenzofuran	1.597254	1.735117	0.3	8.6	20	109
46 2,4-Dinitrotoluene	0.409737	0.441771	0.07	7.8	20	108
47 Diethylphthalate	1.321358	1.443281	0.3	9.2	20	109
92 1,2,4,5-Tetrachlorobenze	0.563295	0.585459	0.1	3.9	20	104
48 Fluorene	1.447601	1.626582	0.2	12.4	20	112
49 4-Chlorophenyl-phenyleth	0.657798	0.740619	0.1	12.6	20	113
50 4-Nitroaniline	0.346048	0.332248	0.01	-4	40	96
51 4,6-Dinitro-2-methylphen	0.175287	0.170196	0.01	-2.9	30	97
52 N-Nitrosodiphenylamine	0.674839	0.707975	0.1	4.9	20	105
54 4-Bromophenyl-phenylethe	0.228913	0.226695	0.07	-1	20	99
55 Hexachlorobenzene	0.273986	0.271407	0.05	-0.9	20	99
56 Atrazine	0.244859	0.245814	0.01	0.4	25	100
57 Pentachlorophenol	0.169693	0.160483	0.01	-5.4	40	95
59 Phenanthrene	1.113655	1.177342	0.2	5.7	20	106
60 Anthracene	1.125577	1.238901	0.2	10.1	20	110
62 Di-n-butylphthalate	1.21971	1.340041	0.5	9.9	20	110
63 Fluoranthene	1.185101	1.259381	0.1	6.3	20	106
64 Pyrene	1.055238	1.148986	0.4	8.9	25	109
66 Butylbenzylphthalate	0.463706	0.496899	0.1	7.2	25	107
67 Benzo(a)anthracene	1.051229	1.083071	0.3	3	20	103
68 3,3'-Dichlorobenzidine	0.365424	0.338397	0.01	-7.4	40	93
70 Chrysene	0.993336	1.041041	0.2	4.8	20	105
71 bis(2-Ethylhexyl)phthala	0.652065	0.719519	0.2	10.3	25	110
72 Di-n-octylphthalate	1.205285	1.338265	0.01	11	40	111
73 Benzo(b)fluoranthene	1.154726	1.130113	0.01	-2.1	25	98
74 Benzo(k)fluoranthene	1.146463	1.216014	0.01	6.1	25	106
75 Benzo(a)pyrene	1.162294	1.169388	0.01	0.6	20	101
77 Indeno(1,2,3-cd)pyrene	1.2657	1.066177	0.01	-15.8	25	84
78 Dibenzo(a,h)anthracene	1.145756	0.971684	0.01	-15.2	25	85
79 Benzo(g,h,i)perylene	0.94203	0.743186	0.01	-21.1	30	79
$ 93 bis-(2-Chloroethyl)ether	1.235609	1.157706	0.1	-6.3	20	94
$ 94 4-Methylphenol-d8	1.330674	1.327985	0.01	-0.2	20	100
$ 95 2-Nitrophenol-d4	0.198006	0.213731	0.05	7.9	20	108
$ 96 2,4-Dichlorophenol-d3	0.290671	0.301943	0.06	3.9	20	104
$ 97 4-Chloroaniline-d4	0.438177	0.454915	0.01	3.8	40	104
$ 98 Dimethylphthalate-d6	1.306354	1.412774	0.3	8.1	20	108
$ 99 Acenaphthylene-d8	1.728495	1.889883	0.4	9.3	20	109
$ 100 4-Nitrophenol-d4	0.319389	0.330991	0.01	3.6	40	104
$ 101 Fluorene-d10	1.225675	1.392864	0.1	13.6	20	114
$ 102 4,6-Dinitro-2-methylphen	0.182033	0.181038	0.01	-0.5	30	99
$ 103 Anthracene-d10	1.019638	1.075545	0.3	5.5	20	105
$ 104 Pyrene-d10	0.872662	0.904281	0.3	3.6	25	104
$ 105 Benzo(a)pyrene-d12	0.969526	0.957544	0.01	-1.2	20	99
106 Carbazole	0.983462	0.996151	0.05	1.3	20	101

Report Date: 23-Dec-2015 09:58:12 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122224.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
107 2,3,4,6-Tetrachloropheno	0.332328	0.344488	0.04	3.7	20	104
108 1,4-Dioxane	0.804964	0.684092	0.01	-15	40	85
$ 109 1,4-Dioxane-d8	0.670057	0.615319	0.01	-8.2	25	92

Shealy Environmental Services
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122224.D
Lab Sample ID: SSTD020OX Client Sample ID: SSTD020OX
Injection Date: 22-Dec-2015 20:30:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12122215.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12122215.b\SOMBNA-end.m
Method Date: 23-Dec-2015 09:57:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1: Zebron ZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: rbh Review Date: 23-Dec-2015 09:57:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	979737	20.000	20.322	
108 1,4-Dioxane	88.0	3.338	3.338	0.000	144023	8.0000	6.7987	
$ 109 1,4-Dioxane-d8	96.0	3.317	3.317	0.000	129544	8.0000	7.3465	
4 Phenol	94.0	5.133	5.133	0.000	1056745	20.000	20.175	
2 Benzaldehyde	77.0	5.144	5.144	0.000	587153	20.000	17.265	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	609334	20.000	18.739	
5 bis(2-Chloroethyl)Ether	93.0	5.230	5.230	0.000	778406	20.000	19.755	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	639933	20.000	20.063	
7 2-Chlorophenol	128.0	5.310	5.310	0.000	813127	20.000	20.157	
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	526329	20.000	20.000	
10 2-Methylphenol	108.0	5.614	5.614	0.000	705812	20.000	19.916	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.646	5.646	0.000	1362405	20.000	18.616	
$ 94 4-Methylphenol-d8	113.0	5.710	5.710	0.000	698957	20.000	19.960	
14 4-Methylphenol	108.0	5.737	5.737	0.000	759775	20.000	19.761	
13 N-Nitroso-di-n-propylamine	70.0	5.764	5.764	0.000	662313	20.000	19.680	
12 Acetophenone	105.0	5.785	5.785	0.000	1050039	20.000	19.570	
15 Hexachloroethane	117.0	5.892	5.892	0.000	314525	20.000	18.973	
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	380884	20.000	20.192	
17 Nitrobenzene	77.0	5.929	5.929	0.000	910048	20.000	19.169	
18 Isophorone	82.0	6.116	6.116	0.000	1608540	20.000	19.930	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	836676	20.000	20.330	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	466337	20.000	21.588	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	453616	20.000	20.825	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	910456	20.000	20.194	
$ 96 2,4-Dichlorophenol-d3	165.0	6.367	6.367	0.000	658806	20.000	20.776	

Report Date: 23-Dec-2015 09:58:12 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122224.D

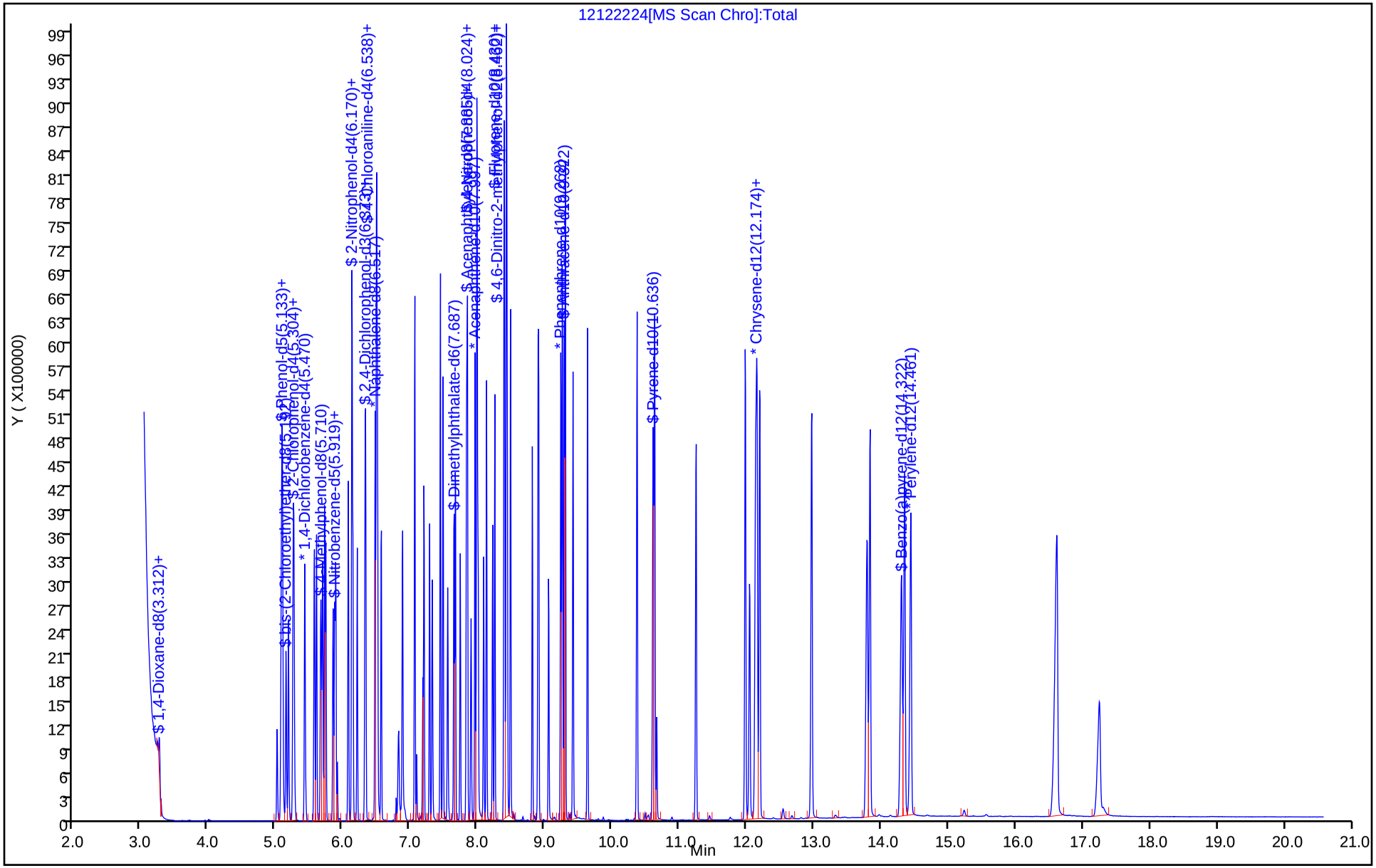
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 2,4-Dichlorophenol	162.0	6.378	6.378	0.000	649969	20.000	20.633	
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	2181887	20.000	20.000	
24 Naphthalene	128.0	6.533	6.533	0.000	2553304	20.000	21.711	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	992574	20.000	20.764	
25 4-Chloroaniline	127.0	6.549	6.549	0.000	1363930	20.000	20.925	
26 Hexachlorobutadiene	225.0	6.608	6.608	0.000	374937	20.000	19.237	
27 Caprolactam	113.0	6.864	6.864	0.000	170674	20.000	19.238	
28 4-Chloro-3-methylphenol	107.0	6.923	6.923	0.000	679028	20.000	20.103	
29 2-Methylnaphthalene	142.0	7.105	7.105	0.000	1629940	20.000	21.478	
30 Hexachlorocyclopentadiene	237.0	7.222	7.222	0.000	230631	20.000	10.721	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.238	7.238	0.000	654075	20.000	20.787	
31 2,4,6-Trichlorophenol	196.0	7.324	7.324	0.000	416865	20.000	20.499	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	447121	20.000	20.921	
34 1,1'-Biphenyl	154.0	7.484	7.484	0.000	1838776	20.000	22.347	
35 2-Chloronaphthalene	162.0	7.521	7.521	0.000	1362612	20.000	21.541	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	492751	20.000	20.335	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	1578351	20.000	21.629	
37 Dimethylphthalate	163.0	7.708	7.708	0.000	1600570	20.000	21.727	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	360621	20.000	21.535	
$ 99 Acenaphthylene-d8	160.0	7.869	7.869	0.000	2111377	20.000	21.867	
38 Acenaphthylene	152.0	7.885	7.885	0.000	2284554	20.000	22.675	
40 3-Nitroaniline	138.0	7.938	7.938	0.000	366579	20.000	20.896	
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	1117200	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.018	8.018	0.000	252404	20.000	21.662	
42 Acenaphthene	153.0	8.024	8.024	0.000	1558210	20.000	22.301	
$ 100 4-Nitrophenol-d4	143.0	8.034	8.034	0.000	369783	20.000	20.727	
44 4-Nitrophenol	109.0	8.045	8.045	0.000	227039	20.000	18.409	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	493547	20.000	21.564	
45 Dibenzofuran	168.0	8.168	8.168	0.000	1938473	20.000	21.726	
107 2,3,4,6-Tetrachlorophenol	232.0	8.259	8.259	0.000	384862	20.000	20.732	
47 Diethylphthalate	149.0	8.291	8.291	0.000	1612433	20.000	21.845	
49 4-Chlorophenyl-phenylether	204.0	8.424	8.424	0.000	827419	20.000	22.518	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1556108	20.000	22.728	
50 4-Nitroaniline	138.0	8.467	8.467	0.000	371187	20.000	19.202	
48 Fluorene	166.0	8.462	8.462	0.000	1817217	20.000	22.473	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	373502	20.000	19.891	
51 4,6-Dinitro-2-methylphenol	198.0	8.478	8.478	0.000	351135	20.000	19.419	
52 N-Nitrosodiphenylamine	169.0	8.526	8.526	0.000	1460636	20.000	20.982	
54 4-Bromophenyl-phenylether	248.0	8.846	8.846	0.000	467698	20.000	19.806	
55 Hexachlorobenzene	284.0	8.932	8.932	0.000	559944	20.000	19.812	
56 Atrazine	200.0	8.942	8.942	0.000	507144	20.000	20.078	
57 Pentachlorophenol	266.0	9.092	9.092	0.000	331095	20.000	18.915	
* 58 Phenanthrene-d10	188.0	9.268	9.268	0.000	2063119	20.000	20.000	
59 Phenanthrene	178.0	9.290	9.290	0.000	2428997	20.000	21.144	
$ 103 Anthracene-d10	188.0	9.322	9.322	0.000	2218977	20.000	21.097	
60 Anthracene	178.0	9.338	9.338	0.000	2556001	20.000	22.014	
106 Carbazole	167.0	9.450	9.450	0.000	2055178	20.000	20.258	
62 Di-n-butylphthalate	149.0	9.664	9.664	0.000	2764664	20.000	21.973	
63 Fluoranthene	202.0	10.401	10.401	0.000	2598253	20.000	21.254	
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2204931	20.000	20.725	
64 Pyrene	202.0	10.663	10.663	0.000	2801599	20.000	21.777	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
66 Butylbenzylphthalate	149.0	11.277	11.277	0.000	1211600	20.000	21.432	
71 bis(2-Ethylhexyl)phthalate	149.0	12.003	12.003	0.000	1754420	20.000	22.069	
68 3,3'-Dichlorobenzidine	252.0	12.068	12.068	0.000	825122	20.000	18.521	
67 Benzo(a)anthracene	228.0	12.158	12.158	0.000	2640879	20.000	20.606	
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	2438324	20.000	20.000	
70 Chrysene	228.0	12.223	12.223	0.000	2538395	20.000	20.961	
72 Di-n-octylphthalate	149.0	12.992	12.992	0.000	3041149	20.000	22.207	
73 Benzo(b)fluoranthene	252.0	13.815	13.815	0.000	2568134	20.000	19.574	
74 Benzo(k)fluoranthene	252.0	13.857	13.857	0.000	2763339	20.000	21.213	
$ 105 Benzo(a)pyrene-d12	264.0	14.322	14.322	0.000	2175977	20.000	19.753	
75 Benzo(a)pyrene	252.0	14.370	14.370	0.000	2657384	20.000	20.122	
* 76 Perylene-d12	264.0	14.461	14.461	0.000	2272457	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.614	16.614	0.000	2422842	20.000	16.847	
78 Dibenzo(a,h)anthracene	278.0	16.630	16.630	0.000	2208111	20.000	16.961	
79 Benzo(g,h,i)perylene	276.0	17.255	17.255	0.000	1688859	20.000	15.778	

Report Date: 23-Dec-2015 09:58:12 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122224.D				
Injection Date:	22-Dec-2015 20:30:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020OX	Lab ID:	SSTD020OX		
Sample Info:	12122215.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/23/2015 Time: 0851

Lab File ID: 12122302 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OZ Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
1,4-Dioxane	0.805	0.699	0.010	-13.2	40.0
Benzaldehyde	1.292	1.389	0.100	7.5	40.0
Phenol	1.990	2.019	0.080	1.5	20.0
Bis(2-Chloroethyl) ether	1.497	1.478	0.100	-1.3	20.0
2-Chlorophenol	1.533	1.543	0.200	0.7	20.0
2-Methylphenol	1.347	1.322	0.010	-1.9	20.0
2,2'-Oxybis(1-chloropropane)	2.781	2.532	0.010	-8.9	25.0
Acetophenone	2.039	1.992	0.060	-2.3	20.0
4-Methylphenol	1.461	1.407	0.010	-3.7	20.0
N-Nitroso-di-n propylamine	1.279	1.254	0.080	-1.9	25.0
Hexachloroethane	0.630	0.617	0.100	-2.1	20.0
Nitrobenzene	0.435	0.410	0.090	-5.8	20.0
Isophorone	0.740	0.721	0.100	-2.5	20.0
2-Nitrophenol	0.200	0.202	0.060	1.0	20.0
2,4-Dimethylphenol	0.377	0.377	0.050	0.1	25.0
Bis(2-chloroethoxy)methane	0.413	0.408	0.080	-1.2	20.0
2,4-Dichlorophenol	0.289	0.290	0.060	0.4	20.0
Naphthalene	1.078	1.164	0.200	7.9	20.0
4-Chloroaniline	0.597	0.623	0.010	4.3	40.0
Hexachlorobutadiene	0.179	0.167	0.040	-6.4	20.0
Caprolactam	0.081	0.072	0.010	-11.4	30.0
4-Chloro-3-methylphenol	0.310	0.305	0.040	-1.5	20.0
2-Methylnaphthalene	0.696	0.735	0.100	5.7	20.0
Hexachlorocyclo-pentadiene	0.385	0.365	0.010	-5.1	40.0
2,4,6-Trichlorophenol	0.364	0.361	0.090	-0.7	20.0
2,4,5-Trichlorophenol	0.383	0.379	0.100	-0.9	20.0
1,1'-Biphenyl	1.473	1.638	0.200	11.2	20.0
2-Chloronaphthalene	1.132	1.211	0.300	6.9	20.0
2-Nitroaniline	0.434	0.433	0.060	-0.3	25.0
Dimethylphthalate	1.319	1.404	0.300	6.5	20.0
2,6-Dinitrotoluene	0.300	0.315	0.080	5.2	20.0
Acenaphthylene	1.804	2.029	0.400	12.5	20.0
3-Nitroaniline	0.314	0.335	0.010	6.6	25.0
Acenaphthene	1.251	1.393	0.200	11.3	20.0
2,4-Dinitrophenol	0.209	0.241	0.010	15.3	50.0
4-Nitrophenol	0.221	0.203	0.010	-8.0	40.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/23/2015 Time: 0851

Lab File ID: 12122302 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OZ Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
Dibenzofuran	1.597	1.704	0.300	6.7	20.0
2,4-Dinitrotoluene	0.410	0.426	0.070	3.9	20.0
Diethylphthalate	1.321	1.437	0.300	8.8	20.0
1,2,4,5-Tetrachlorobenzene	0.563	0.578	0.100	2.6	20.0
4-Chlorophenyl-phenyl ether	0.658	0.722	0.100	9.8	20.0
Fluorene	1.448	1.599	0.200	10.5	20.0
4-Nitroaniline	0.346	0.423	0.010	22.2	40.0
4,6-Dinitro-2-methylphenol	0.175	0.182	0.010	4.1	30.0
4-Bromophenyl-phenylether	0.229	0.227	0.070	-0.7	20.0
N-Nitrosodiphenylamine	0.675	0.721	0.100	6.8	20.0
Hexachlorobenzene	0.274	0.270	0.050	-1.4	20.0
Atrazine	0.245	0.257	0.010	5.1	25.0
Pentachlorophenol	0.170	0.157	0.010	-7.5	40.0
Phenanthrene	1.114	1.196	0.200	7.4	20.0
Anthracene	1.126	1.261	0.200	12.1	20.0
Carbazole	0.983	1.024	0.050	4.2	20.0
Di-n-butylphthalate	1.220	1.368	0.500	12.2	20.0
Fluoranthene	1.185	1.257	0.100	6.0	20.0
Pyrene	1.055	1.152	0.400	9.2	25.0
Butylbenzylphthalate	0.464	0.510	0.100	10.0	25.0
3,3'-Dichlorobenzidine	0.365	0.373	0.010	2.2	40.0
Benzo(a)anthracene	1.051	1.083	0.300	3.0	20.0
Chrysene	0.993	1.037	0.200	4.4	20.0
Bis(2-ethylhexyl)phthalate	0.652	0.743	0.200	14.0	25.0
Di-n-octylphthalate	1.205	1.393	0.010	15.6	40.0
Benzo(b)fluoranthene	1.155	1.157	0.010	0.2	25.0
Benzo(k)fluoranthene	1.146	1.151	0.010	0.4	25.0
Benzo(a)pyrene	1.162	1.153	0.010	-0.8	20.0
Indeno(1,2,3-cd)pyrene	1.266	1.238	0.010	-2.2	25.0
Dibenzo(a,h)anthracene	1.146	1.128	0.010	-1.5	25.0
Benzo(g,h,i)perylene	0.942	0.894	0.010	-5.1	30.0
2,3,4,6-Tetrachlorophenol	0.332	0.327	0.040	-1.5	20.0
1,4-Dioxane-d8	0.670	0.620	0.010	-7.5	25.0
Phenol-d5	1.832	1.840	0.010	0.4	25.0
Bis-(2-chloroethyl)ether-d8	1.236	1.161	0.100	-6.1	20.0
2-Chlorophenol-d4	1.212	1.215	0.200	0.2	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/23/2015 Time: 0851

Lab File ID: 12122302 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020OZ Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	$\overline{\text{RRF}}$	RRF 20	MIN RRF	%D	MAX %D
4-Methylphenol-d8	1.331	1.307	0.010	-1.8	20.0
4-Chloroaniline-d4	0.438	0.456	0.010	4.1	40.0
Nitrobenzene-d5	0.173	0.172	0.050	-0.8	20.0
2-Nitrophenol-d4	0.198	0.210	0.050	6.0	20.0
2,4-Dichlorophenol-d3	0.291	0.295	0.060	1.4	20.0
Dimethylphthalate-d6	1.306	1.370	0.300	4.8	20.0
Acenaphthylene-d8	1.728	1.887	0.400	9.2	20.0
4-Nitrophenol-d4	0.319	0.329	0.010	3.1	40.0
Fluorene-d10	1.226	1.361	0.100	11.0	20.0
4,6-Dinitro-2-methylphenol-d2	0.182	0.191	0.010	5.1	30.0
Anthracene-d10	1.020	1.087	0.300	6.6	20.0
Pyrene-d10	0.873	0.912	0.300	4.5	25.0
Benzo(a)pyrene-d12	0.970	0.945	0.010	-2.5	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122302.D
Lab Sample ID: SSTD020OZ Client Sample ID: SSTD020OZ
Injection Date: 23-Dec-2015 08:51:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12122315.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m
Method Date: 23-Dec-2015 10:01:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
2 Benzaldehyde	1.292249	1.388613	0.1	7.5	40	107
$ 3 Phenol-d5	1.831928	1.839593	0.01	0.4	25	100
4 Phenol	1.990394	2.019276	0.08	1.5	20	101
5 bis(2-Chloroethyl)Ether	1.49731	1.47806	0.1	-1.3	20	99
$ 6 2-Chlorophenol-d4	1.212021	1.214942	0.2	0.2	20	100
7 2-Chlorophenol	1.532837	1.543062	0.2	0.7	20	101
10 2-Methylphenol	1.346697	1.321617	0.01	-1.9	20	98
11 2,2'-oxybis(1-Chloroprop	2.780997	2.532327	0.01	-8.9	25	91
12 Acetophenone	2.038836	1.99151	0.06	-2.3	20	98
13 N-Nitroso-di-n-propylami	1.278818	1.254054	0.08	-1.9	25	98
14 4-Methylphenol	1.461029	1.407327	0.01	-3.7	20	96
15 Hexachloroethane	0.629926	0.616975	0.1	-2.1	20	98
$ 16 Nitrobenzene-d5	0.172905	0.171601	0.05	-0.8	20	99
17 Nitrobenzene	0.435173	0.41003	0.09	-5.8	20	94
18 Isophorone	0.739821	0.72103	0.1	-2.5	20	97
19 2-Nitrophenol	0.199661	0.201616	0.06	1	20	101
20 2,4-Dimethylphenol	0.377242	0.377477	0.05	0.1	25	100
21 bis(2-Chloroethoxy)metha	0.413262	0.408401	0.08	-1.2	20	99
22 2,4-Dichlorophenol	0.288758	0.289792	0.06	0.4	20	100
24 Naphthalene	1.078025	1.163676	0.2	7.9	20	108
25 4-Chloroaniline	0.597483	0.622908	0.01	4.3	40	104
26 Hexachlorobutadiene	0.178661	0.167315	0.04	-6.4	20	94
27 Caprolactam	0.081321	0.072019	0.01	-11.4	30	89
28 4-Chloro-3-methylphenol	0.309611	0.304977	0.04	-1.5	20	99
29 2-Methylnaphthalene	0.69563	0.735121	0.1	5.7	20	106
30 Hexachlorocyclopentadien	0.385099	0.365323	0.01	-5.1	40	95
31 2,4,6-Trichlorophenol	0.364046	0.361404	0.09	-0.7	20	99
32 2,4,5-Trichlorophenol	0.382601	0.379268	0.1	-0.9	20	99
34 1,1'-Biphenyl	1.473039	1.637765	0.2	11.2	20	111
35 2-Chloronaphthalene	1.132399	1.210705	0.3	6.9	20	107
36 2-Nitroaniline	0.433793	0.432528	0.06	-0.3	25	100
37 Dimethylphthalate	1.318765	1.404478	0.3	6.5	20	106
38 Acenaphthylene	1.80366	2.029334	0.4	12.5	20	113
39 2,6-Dinitrotoluene	0.299788	0.315456	0.08	5.2	20	105
40 3-Nitroaniline	0.314048	0.334886	0.01	6.6	25	107

Report Date: 23-Dec-2015 16:08:25 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122302.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Acenaphthene	1.250858	1.392515	0.2	11.3	20	111
43 2,4-Dinitrophenol	0.208592	0.240536	0.01	15.3	50	115
44 4-Nitrophenol	0.220779	0.203197	0.01	-8	40	92
45 Dibenzofuran	1.597254	1.704373	0.3	6.7	20	107
46 2,4-Dinitrotoluene	0.409737	0.425739	0.07	3.9	20	104
47 Diethylphthalate	1.321358	1.437192	0.3	8.8	20	109
92 1,2,4,5-Tetrachlorobenze	0.563295	0.577905	0.1	2.6	20	103
48 Fluorene	1.447601	1.598879	0.2	10.5	20	110
49 4-Chlorophenyl-phenyleth	0.657798	0.721952	0.1	9.8	20	110
50 4-Nitroaniline	0.346048	0.422865	0.01	22.2	40	122
51 4,6-Dinitro-2-methylphen	0.175287	0.182471	0.01	4.1	30	104
52 N-Nitrosodiphenylamine	0.674839	0.7209	0.1	6.8	20	107
54 4-Bromophenyl-phenylethe	0.228913	0.227249	0.07	-0.7	20	99
55 Hexachlorobenzene	0.273986	0.270224	0.05	-1.4	20	99
56 Atrazine	0.244859	0.257318	0.01	5.1	25	105
57 Pentachlorophenol	0.169693	0.157045	0.01	-7.5	40	93
59 Phenanthrene	1.113655	1.195803	0.2	7.4	20	107
60 Anthracene	1.125577	1.261433	0.2	12.1	20	112
62 Di-n-butylphthalate	1.21971	1.368218	0.5	12.2	20	112
63 Fluoranthene	1.185101	1.256564	0.1	6	20	106
64 Pyrene	1.055238	1.15241	0.4	9.2	25	109
66 Butylbenzylphthalate	0.463706	0.510246	0.1	10	25	110
67 Benzo(a)anthracene	1.051229	1.082863	0.3	3	20	103
68 3,3'-Dichlorobenzidine	0.365424	0.373432	0.01	2.2	40	102
70 Chrysene	0.993336	1.036997	0.2	4.4	20	104
71 bis(2-Ethylhexyl)phthala	0.652065	0.743385	0.2	14	25	114
72 Di-n-octylphthalate	1.205285	1.392861	0.01	15.6	40	116
73 Benzo(b)fluoranthene	1.154726	1.156988	0.01	0.2	25	100
74 Benzo(k)fluoranthene	1.146463	1.150786	0.01	0.4	25	100
75 Benzo(a)pyrene	1.162294	1.153275	0.01	-0.8	20	99
77 Indeno(1,2,3-cd)pyrene	1.2657	1.237867	0.01	-2.2	25	98
78 Dibenzo(a,h)anthracene	1.145756	1.128136	0.01	-1.5	25	98
79 Benzo(g,h,i)perylene	0.94203	0.893764	0.01	-5.1	30	95
$ 93 bis-(2-Chloroethyl)ether	1.235609	1.160543	0.1	-6.1	20	94
$ 94 4-Methylphenol-d8	1.330674	1.306663	0.01	-1.8	20	98
$ 95 2-Nitrophenol-d4	0.198006	0.209954	0.05	6	20	106
$ 96 2,4-Dichlorophenol-d3	0.290671	0.294839	0.06	1.4	20	101
$ 97 4-Chloroaniline-d4	0.438177	0.456284	0.01	4.1	40	104
$ 98 Dimethylphthalate-d6	1.306354	1.369541	0.3	4.8	20	105
$ 99 Acenaphthylene-d8	1.728495	1.887063	0.4	9.2	20	109
$ 100 4-Nitrophenol-d4	0.319389	0.329286	0.01	3.1	40	103
$ 101 Fluorene-d10	1.225675	1.360852	0.1	11	20	111
$ 102 4,6-Dinitro-2-methylphen	0.182033	0.191359	0.01	5.1	30	105
$ 103 Anthracene-d10	1.019638	1.087221	0.3	6.6	20	107
$ 104 Pyrene-d10	0.872662	0.912029	0.3	4.5	25	105
$ 105 Benzo(a)pyrene-d12	0.969526	0.945232	0.01	-2.5	20	97
106 Carbazole	0.983462	1.024354	0.05	4.2	20	104

Report Date: 23-Dec-2015 16:08:25 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122302.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
107 2,3,4,6-Tetrachloropheno	0.332328	0.327181	0.04	-1.5	20	98
108 1,4-Dioxane	0.804964	0.698836	0.01	-13.2	40	87
$ 109 1,4-Dioxane-d8	0.670057	0.620049	0.01	-7.5	25	93

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122302.D		
Lab Sample ID:	SSTD020OZ	Client Sample ID:	SSTD020OZ
Injection Date:	23-Dec-2015 08:51:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, SVMS 1673		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	23-Dec-2015 10:01:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	984335	20.000	20.084	
108 1,4-Dioxane	88.0	3.333	3.333	0.000	149574	8.0000	6.9453	
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	132711	8.0000	7.4029	
4 Phenol	94.0	5.133	5.133	0.000	1080480	20.000	20.290	
2 Benzaldehyde	77.0	5.144	5.144	0.000	743023	20.000	21.491	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	620987	20.000	18.785	
5 bis(2-Chloroethyl)Ether	93.0	5.229	5.229	0.000	790885	20.000	19.743	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	650095	20.000	20.048	
7 2-Chlorophenol	128.0	5.310	5.310	0.000	825666	20.000	20.133	
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	535083	20.000	20.000	
10 2-Methylphenol	108.0	5.614	5.614	0.000	707175	20.000	19.628	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.646	5.646	0.000	1355005	20.000	18.212	
$ 94 4-Methylphenol-d8	113.0	5.710	5.710	0.000	699173	20.000	19.639	
14 4-Methylphenol	108.0	5.737	5.737	0.000	753037	20.000	19.265	
13 N-Nitroso-di-n-propylamine	70.0	5.764	5.764	0.000	671023	20.000	19.613	
12 Acetophenone	105.0	5.785	5.785	0.000	1065623	20.000	19.536	
15 Hexachloroethane	117.0	5.892	5.892	0.000	330133	20.000	19.589	
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	382216	20.000	19.849	
17 Nitrobenzene	77.0	5.929	5.929	0.000	913283	20.000	18.844	
18 Isophorone	82.0	6.116	6.116	0.000	1605991	20.000	19.492	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	840777	20.000	20.012	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	467642	20.000	21.207	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	449070	20.000	20.196	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	909655	20.000	19.765	
$ 96 2,4-Dichlorophenol-d3	165.0	6.367	6.367	0.000	656711	20.000	20.287	

Report Date: 23-Dec-2015 16:08:25 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122302.D

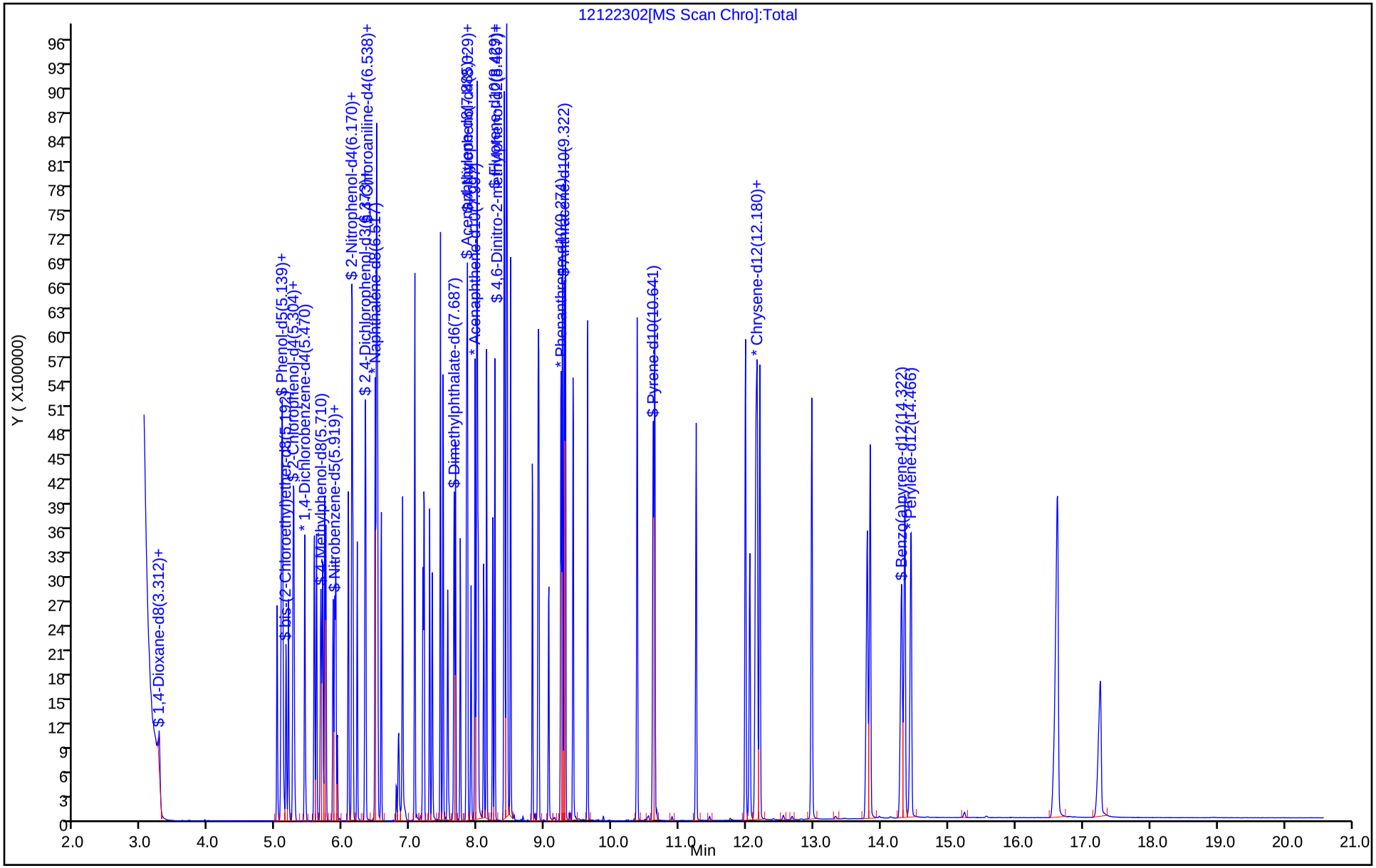
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 2,4-Dichlorophenol	162.0	6.378	6.378	0.000	645471	20.000	20.072	
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	2227358	20.000	20.000	
24 Naphthalene	128.0	6.533	6.533	0.000	2591922	20.000	21.589	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	1016308	20.000	20.826	
25 4-Chloroaniline	127.0	6.554	6.554	0.000	1387439	20.000	20.851	
26 Hexachlorobutadiene	225.0	6.608	6.608	0.000	372671	20.000	18.730	
27 Caprolactam	113.0	6.864	6.864	0.000	160413	20.000	17.712	
28 4-Chloro-3-methylphenol	107.0	6.923	6.923	0.000	679294	20.000	19.701	
29 2-Methylnaphthalene	142.0	7.105	7.105	0.000	1637378	20.000	21.135	
30 Hexachlorocyclopentadiene	237.0	7.222	7.222	0.000	418886	20.000	18.973	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.243	7.243	0.000	662636	20.000	20.519	
31 2,4,6-Trichlorophenol	196.0	7.324	7.324	0.000	414392	20.000	19.855	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	434875	20.000	19.826	
34 1,1'-Biphenyl	154.0	7.484	7.484	0.000	1877891	20.000	22.237	
35 2-Chloronaphthalene	162.0	7.521	7.521	0.000	1388216	20.000	21.383	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	495944	20.000	19.942	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	1570340	20.000	20.967	
37 Dimethylphthalate	163.0	7.708	7.708	0.000	1610400	20.000	21.300	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	361708	20.000	21.045	
$ 99 Acenaphthylene-d8	160.0	7.874	7.874	0.000	2163740	20.000	21.835	
38 Acenaphthylene	152.0	7.885	7.885	0.000	2326871	20.000	22.502	
40 3-Nitroaniline	138.0	7.938	7.938	0.000	383986	20.000	21.327	
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	1146618	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.023	8.023	0.000	275803	20.000	23.063	
42 Acenaphthene	153.0	8.029	8.029	0.000	1596683	20.000	22.265	
$ 100 4-Nitrophenol-d4	143.0	8.039	8.039	0.000	377565	20.000	20.620	
44 4-Nitrophenol	109.0	8.045	8.045	0.000	232989	20.000	18.407	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	488160	20.000	20.781	
45 Dibenzofuran	168.0	8.168	8.168	0.000	1954265	20.000	21.341	
107 2,3,4,6-Tetrachlorophenol	232.0	8.259	8.259	0.000	375152	20.000	19.690	
47 Diethylphthalate	149.0	8.291	8.291	0.000	1647910	20.000	21.753	
49 4-Chlorophenyl-phenylether	204.0	8.429	8.429	0.000	827803	20.000	21.951	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1560377	20.000	22.206	
50 4-Nitroaniline	138.0	8.472	8.472	0.000	484865	20.000	24.440	
48 Fluorene	166.0	8.462	8.462	0.000	1833303	20.000	22.090	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	392469	20.000	21.025	
51 4,6-Dinitro-2-methylphenol	198.0	8.478	8.478	0.000	374240	20.000	20.820	
52 N-Nitrosodiphenylamine	169.0	8.526	8.526	0.000	1478535	20.000	21.365	
54 4-Bromophenyl-phenylether	248.0	8.851	8.851	0.000	466077	20.000	19.855	
55 Hexachlorobenzene	284.0	8.932	8.932	0.000	554217	20.000	19.725	
56 Atrazine	200.0	8.942	8.942	0.000	527748	20.000	21.018	
57 Pentachlorophenol	266.0	9.092	9.092	0.000	322093	20.000	18.509	
* 58 Phenanthrene-d10	188.0	9.274	9.274	0.000	2050956	20.000	20.000	
59 Phenanthrene	178.0	9.295	9.295	0.000	2452539	20.000	21.475	
$ 103 Anthracene-d10	188.0	9.322	9.322	0.000	2229842	20.000	21.326	
60 Anthracene	178.0	9.338	9.338	0.000	2587144	20.000	22.414	
106 Carbazole	167.0	9.450	9.450	0.000	2100904	20.000	20.832	
62 Di-n-butylphthalate	149.0	9.669	9.669	0.000	2806154	20.000	22.435	
63 Fluoranthene	202.0	10.401	10.401	0.000	2577157	20.000	21.206	
$ 104 Pyrene-d10	212.0	10.641	10.641	0.000	2175890	20.000	20.902	
64 Pyrene	202.0	10.663	10.663	0.000	2749382	20.000	21.842	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
66 Butylbenzylphthalate	149.0	11.277	11.277	0.000	1217328	20.000	22.007	
71 bis(2-Ethylhexyl)phthalate	149.0	12.009	12.009	0.000	1773543	20.000	22.801	
68 3,3'-Dichlorobenzidine	252.0	12.073	12.073	0.000	890921	20.000	20.438	
67 Benzo(a)anthracene	228.0	12.164	12.164	0.000	2583460	20.000	20.602	
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	2385768	20.000	20.000	
70 Chrysene	228.0	12.222	12.222	0.000	2474035	20.000	20.879	
72 Di-n-octylphthalate	149.0	12.992	12.992	0.000	3030221	20.000	23.113	
73 Benzo(b)fluoranthene	252.0	13.814	13.814	0.000	2517070	20.000	20.039	
74 Benzo(k)fluoranthene	252.0	13.857	13.857	0.000	2503578	20.000	20.075	
$ 105 Benzo(a)pyrene-d12	264.0	14.322	14.322	0.000	2056387	20.000	19.499	
75 Benzo(a)pyrene	252.0	14.375	14.375	0.000	2508992	20.000	19.845	
* 76 Perylene-d12	264.0	14.466	14.466	0.000	2175537	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.630	16.630	0.000	2693026	20.000	19.560	
78 Dibenzo(a,h)anthracene	278.0	16.635	16.635	0.000	2454302	20.000	19.692	
79 Benzo(g,h,i)perylene	276.0	17.271	17.271	0.000	1944417	20.000	18.975	

Report Date: 23-Dec-2015 16:08:25 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122302.D				
Injection Date:	23-Dec-2015 08:51:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020OZ	Lab ID:	SSTD020OZ		
Sample Info:	12122315.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/23/2015 Time: 1759

Lab File ID: 12122321 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020PA Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
1,4-Dioxane	0.805	0.712	0.010	-11.5	40.0
Benzaldehyde	1.292	1.254	0.100	-3.0	40.0
Phenol	1.990	2.008	0.080	0.9	20.0
Bis(2-Chloroethyl) ether	1.497	1.466	0.100	-2.1	20.0
2-Chlorophenol	1.533	1.546	0.200	0.8	20.0
2-Methylphenol	1.347	1.314	0.010	-2.5	20.0
2,2'-Oxybis(1-chloropropane)	2.781	2.475	0.010	-11.0	25.0
Acetophenone	2.039	1.968	0.060	-3.5	20.0
4-Methylphenol	1.461	1.393	0.010	-4.6	20.0
N-Nitroso-di-n propylamine	1.279	1.220	0.080	-4.6	25.0
Hexachloroethane	0.630	0.606	0.100	-3.7	20.0
Nitrobenzene	0.435	0.411	0.090	-5.6	20.0
Isophorone	0.740	0.719	0.100	-2.9	20.0
2-Nitrophenol	0.200	0.206	0.060	3.3	20.0
2,4-Dimethylphenol	0.377	0.374	0.050	-0.8	25.0
Bis(2-chloroethoxy)methane	0.413	0.411	0.080	-0.5	20.0
2,4-Dichlorophenol	0.289	0.294	0.060	1.8	20.0
Naphthalene	1.078	1.167	0.200	8.3	20.0
4-Chloroaniline	0.597	0.618	0.010	3.4	40.0
Hexachlorobutadiene	0.179	0.171	0.040	-4.0	20.0
Caprolactam	0.081	0.078	0.010	-3.9	30.0
4-Chloro-3-methylphenol	0.310	0.299	0.040	-3.3	20.0
2-Methylnaphthalene	0.696	0.734	0.100	5.5	20.0
Hexachlorocyclo-pentadiene	0.385	0.265	0.010	-31.3	40.0
2,4,6-Trichlorophenol	0.364	0.359	0.090	-1.4	20.0
2,4,5-Trichlorophenol	0.383	0.383	0.100	0.2	20.0
1,1'-Biphenyl	1.473	1.612	0.200	9.5	20.0
2-Chloronaphthalene	1.132	1.195	0.300	5.5	20.0
2-Nitroaniline	0.434	0.427	0.060	-1.5	25.0
Dimethylphthalate	1.319	1.409	0.300	6.8	20.0
2,6-Dinitrotoluene	0.300	0.318	0.080	6.0	20.0
Acenaphthylene	1.804	1.996	0.400	10.6	20.0
3-Nitroaniline	0.314	0.329	0.010	4.8	25.0
Acenaphthene	1.251	1.370	0.200	9.5	20.0
2,4-Dinitrophenol	0.209	0.211	0.010	1.3	50.0
4-Nitrophenol	0.221	0.195	0.010	-11.8	40.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/23/2015 Time: 1759

Lab File ID: 12122321 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020PA Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
Dibenzofuran	1.597	1.691	0.300	5.9	20.0
2,4-Dinitrotoluene	0.410	0.436	0.070	6.4	20.0
Diethylphthalate	1.321	1.437	0.300	8.8	20.0
1,2,4,5-Tetrachlorobenzene	0.563	0.578	0.100	2.6	20.0
4-Chlorophenyl-phenyl ether	0.658	0.728	0.100	10.7	20.0
Fluorene	1.448	1.598	0.200	10.4	20.0
4-Nitroaniline	0.346	0.373	0.010	7.7	40.0
4,6-Dinitro-2-methylphenol	0.175	0.163	0.010	-6.9	30.0
4-Bromophenyl-phenylether	0.229	0.226	0.070	-1.1	20.0
N-Nitrosodiphenylamine	0.675	0.700	0.100	3.7	20.0
Hexachlorobenzene	0.274	0.272	0.050	-0.7	20.0
Atrazine	0.245	0.252	0.010	2.8	25.0
Pentachlorophenol	0.170	0.152	0.010	-10.4	40.0
Phenanthrene	1.114	1.177	0.200	5.6	20.0
Anthracene	1.126	1.238	0.200	10.0	20.0
Carbazole	0.983	0.987	0.050	0.3	20.0
Di-n-butylphthalate	1.220	1.353	0.500	10.9	20.0
Fluoranthene	1.185	1.258	0.100	6.2	20.0
Pyrene	1.055	1.170	0.400	10.9	25.0
Butylbenzylphthalate	0.464	0.513	0.100	10.6	25.0
3,3'-Dichlorobenzidine	0.365	0.360	0.010	-1.6	40.0
Benzo(a)anthracene	1.051	1.085	0.300	3.2	20.0
Chrysene	0.993	1.052	0.200	5.9	20.0
Bis(2-ethylhexyl)phthalate	0.652	0.744	0.200	14.1	25.0
Di-n-octylphthalate	1.205	1.330	0.010	10.4	40.0
Benzo(b)fluoranthene	1.155	1.111	0.010	-3.8	25.0
Benzo(k)fluoranthene	1.146	1.195	0.010	4.3	25.0
Benzo(a)pyrene	1.162	1.156	0.010	-0.5	20.0
Indeno(1,2,3-cd)pyrene	1.266	1.146	0.010	-9.5	25.0
Dibenzo(a,h)anthracene	1.146	1.048	0.010	-8.6	25.0
Benzo(g,h,i)perylene	0.942	0.808	0.010	-14.3	30.0
2,3,4,6-Tetrachlorophenol	0.332	0.334	0.040	0.4	20.0
1,4-Dioxane-d8	0.670	0.640	0.010	-4.5	25.0
Phenol-d5	1.832	1.844	0.010	0.7	25.0
Bis-(2-chloroethyl)ether-d8	1.236	1.145	0.100	-7.3	20.0
2-Chlorophenol-d4	1.212	1.208	0.200	-0.3	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/23/2015 Time: 1759

Lab File ID: 12122321 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020PA Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	$\overline{\text{RRF}}$	RRF 20	MIN RRF	%D	MAX %D
4-Methylphenol-d8	1.331	1.295	0.010	-2.6	20.0
4-Chloroaniline-d4	0.438	0.454	0.010	3.6	40.0
Nitrobenzene-d5	0.173	0.173	0.050	0.0	20.0
2-Nitrophenol-d4	0.198	0.211	0.050	6.4	20.0
2,4-Dichlorophenol-d3	0.291	0.298	0.060	2.5	20.0
Dimethylphthalate-d6	1.306	1.390	0.300	6.4	20.0
Acenaphthylene-d8	1.728	1.872	0.400	8.3	20.0
4-Nitrophenol-d4	0.319	0.315	0.010	-1.4	40.0
Fluorene-d10	1.226	1.367	0.100	11.5	20.0
4,6-Dinitro-2-methylphenol-d2	0.182	0.174	0.010	-4.7	30.0
Anthracene-d10	1.020	1.061	0.300	4.1	20.0
Pyrene-d10	0.873	0.921	0.300	5.6	25.0
Benzo(a)pyrene-d12	0.970	0.949	0.010	-2.1	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122321.D
Lab Sample ID: SSTD020PA Client Sample ID: SSTD020PA
Injection Date: 23-Dec-2015 17:59:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12122315.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12122315.b\SOMBNA-end.m
Method Date: 23-Dec-2015 18:27:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
2 Benzaldehyde	1.292249	1.253742	0.1	-3	40	97
$ 3 Phenol-d5	1.831928	1.844305	0.01	0.7	25	101
4 Phenol	1.990394	2.0076	0.08	0.9	20	101
5 bis(2-Chloroethyl)Ether	1.49731	1.466158	0.1	-2.1	20	98
$ 6 2-Chlorophenol-d4	1.212021	1.207983	0.2	-0.3	20	100
7 2-Chlorophenol	1.532837	1.545505	0.2	0.8	20	101
10 2-Methylphenol	1.346697	1.313654	0.01	-2.5	20	98
11 2,2'-oxybis(1-Chloroprop	2.780997	2.47462	0.01	-11	25	89
12 Acetophenone	2.038836	1.96835	0.06	-3.5	20	97
13 N-Nitroso-di-n-propylami	1.278818	1.219665	0.08	-4.6	25	95
14 4-Methylphenol	1.461029	1.393352	0.01	-4.6	20	95
15 Hexachloroethane	0.629926	0.606454	0.1	-3.7	20	96
$ 16 Nitrobenzene-d5	0.172905	0.172894	0.05	0	20	100
17 Nitrobenzene	0.435173	0.410957	0.09	-5.6	20	94
18 Isophorone	0.739821	0.718727	0.1	-2.9	20	97
19 2-Nitrophenol	0.199661	0.206294	0.06	3.3	20	103
20 2,4-Dimethylphenol	0.377242	0.374109	0.05	-0.8	25	99
21 bis(2-Chloroethoxy)metha	0.413262	0.411028	0.08	-0.5	20	99
22 2,4-Dichlorophenol	0.288758	0.293908	0.06	1.8	20	102
24 Naphthalene	1.078025	1.167285	0.2	8.3	20	108
25 4-Chloroaniline	0.597483	0.617636	0.01	3.4	40	103
26 Hexachlorobutadiene	0.178661	0.171492	0.04	-4	20	96
27 Caprolactam	0.081321	0.078117	0.01	-3.9	30	96
28 4-Chloro-3-methylphenol	0.309611	0.299312	0.04	-3.3	20	97
29 2-Methylnaphthalene	0.69563	0.734134	0.1	5.5	20	106
30 Hexachlorocyclopentadien	0.385099	0.264538	0.01	-31.3	40	69
31 2,4,6-Trichlorophenol	0.364046	0.358826	0.09	-1.4	20	99
32 2,4,5-Trichlorophenol	0.382601	0.383348	0.1	0.2	20	100
34 1,1'-Biphenyl	1.473039	1.612334	0.2	9.5	20	109
35 2-Chloronaphthalene	1.132399	1.195132	0.3	5.5	20	106
36 2-Nitroaniline	0.433793	0.427389	0.06	-1.5	25	99
37 Dimethylphthalate	1.318765	1.408798	0.3	6.8	20	107
38 Acenaphthylene	1.80366	1.995541	0.4	10.6	20	111
39 2,6-Dinitrotoluene	0.299788	0.317701	0.08	6	20	106
40 3-Nitroaniline	0.314048	0.329223	0.01	4.8	25	105

Report Date: 23-Dec-2015 18:27:19 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122321.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Acenaphthene	1.250858	1.370063	0.2	9.5	20	110
43 2,4-Dinitrophenol	0.208592	0.211263	0.01	1.3	50	101
44 4-Nitrophenol	0.220779	0.194623	0.01	-11.8	40	88
45 Dibenzofuran	1.597254	1.690774	0.3	5.9	20	106
46 2,4-Dinitrotoluene	0.409737	0.43578	0.07	6.4	20	106
47 Diethylphthalate	1.321358	1.437229	0.3	8.8	20	109
92 1,2,4,5-Tetrachlorobenze	0.563295	0.577782	0.1	2.6	20	103
48 Fluorene	1.447601	1.597692	0.2	10.4	20	110
49 4-Chlorophenyl-phenyleth	0.657798	0.727987	0.1	10.7	20	111
50 4-Nitroaniline	0.346048	0.37285	0.01	7.7	40	108
51 4,6-Dinitro-2-methylphen	0.175287	0.163259	0.01	-6.9	30	93
52 N-Nitrosodiphenylamine	0.674839	0.699781	0.1	3.7	20	104
54 4-Bromophenyl-phenylethe	0.228913	0.226484	0.07	-1.1	20	99
55 Hexachlorobenzene	0.273986	0.272133	0.05	-0.7	20	99
56 Atrazine	0.244859	0.251616	0.01	2.8	25	103
57 Pentachlorophenol	0.169693	0.152026	0.01	-10.4	40	90
59 Phenanthrene	1.113655	1.176515	0.2	5.6	20	106
60 Anthracene	1.125577	1.237668	0.2	10	20	110
62 Di-n-butylphthalate	1.21971	1.352649	0.5	10.9	20	111
63 Fluoranthene	1.185101	1.25835	0.1	6.2	20	106
64 Pyrene	1.055238	1.170087	0.4	10.9	25	111
66 Butylbenzylphthalate	0.463706	0.513011	0.1	10.6	25	111
67 Benzo(a)anthracene	1.051229	1.085098	0.3	3.2	20	103
68 3,3'-Dichlorobenzidine	0.365424	0.359599	0.01	-1.6	40	98
70 Chrysene	0.993336	1.051621	0.2	5.9	20	106
71 bis(2-Ethylhexyl)phthala	0.652065	0.74369	0.2	14.1	25	114
72 Di-n-octylphthalate	1.205285	1.33032	0.01	10.4	40	110
73 Benzo(b)fluoranthene	1.154726	1.111074	0.01	-3.8	25	96
74 Benzo(k)fluoranthene	1.146463	1.195449	0.01	4.3	25	104
75 Benzo(a)pyrene	1.162294	1.155987	0.01	-0.5	20	99
77 Indeno(1,2,3-cd)pyrene	1.2657	1.145631	0.01	-9.5	25	91
78 Dibenzo(a,h)anthracene	1.145756	1.047637	0.01	-8.6	25	91
79 Benzo(g,h,i)perylene	0.94203	0.807657	0.01	-14.3	30	86
$ 93 bis-(2-Chloroethyl)ether	1.235609	1.144932	0.1	-7.3	20	93
$ 94 4-Methylphenol-d8	1.330674	1.295488	0.01	-2.6	20	97
$ 95 2-Nitrophenol-d4	0.198006	0.210605	0.05	6.4	20	106
$ 96 2,4-Dichlorophenol-d3	0.290671	0.297834	0.06	2.5	20	102
$ 97 4-Chloroaniline-d4	0.438177	0.453874	0.01	3.6	40	104
$ 98 Dimethylphthalate-d6	1.306354	1.390173	0.3	6.4	20	106
$ 99 Acenaphthylene-d8	1.728495	1.872078	0.4	8.3	20	108
$ 100 4-Nitrophenol-d4	0.319389	0.314882	0.01	-1.4	40	99
$ 101 Fluorene-d10	1.225675	1.366689	0.1	11.5	20	112
$ 102 4,6-Dinitro-2-methylphen	0.182033	0.173533	0.01	-4.7	30	95
$ 103 Anthracene-d10	1.019638	1.061037	0.3	4.1	20	104
$ 104 Pyrene-d10	0.872662	0.921305	0.3	5.6	25	106
$ 105 Benzo(a)pyrene-d12	0.969526	0.949425	0.01	-2.1	20	98
106 Carbazole	0.983462	0.986813	0.05	0.3	20	100

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Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122321.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
107 2,3,4,6-Tetrachloropheno	0.332328	0.3338	0.04	0.4	20	100
108 1,4-Dioxane	0.804964	0.712387	0.01	-11.5	40	88
$ 109 1,4-Dioxane-d8	0.670057	0.640101	0.01	-4.5	25	96

Shealy Environmental Services
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122321.D
Lab Sample ID: SSTD020PA Client Sample ID: SSTD020PA
Injection Date: 23-Dec-2015 17:59:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12122315.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12122315.b\SOMBNA-end.m
Method Date: 23-Dec-2015 18:27:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1: Zebron ZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: jcg Review Date: 23-Dec-2015 18:27:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	1029364	20.000	20.135	
108 1,4-Dioxane	88.0	3.333	3.333	0.000	159042	8.0000	7.0799	
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	142904	8.0000	7.6423	
4 Phenol	94.0	5.134	5.134	0.000	1120504	20.000	20.173	
2 Benzaldehyde	77.0	5.139	5.139	0.000	699752	20.000	19.404	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	639022	20.000	18.532	
5 bis(2-Chloroethyl)Ether	93.0	5.230	5.230	0.000	818308	20.000	19.584	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	674213	20.000	19.933	
7 2-Chlorophenol	128.0	5.310	5.310	0.000	862594	20.000	20.165	
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	558131	20.000	20.000	
10 2-Methylphenol	108.0	5.609	5.609	0.000	733191	20.000	19.509	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.646	5.646	0.000	1381162	20.000	17.797	
$ 94 4-Methylphenol-d8	113.0	5.711	5.711	0.000	723052	20.000	19.471	
14 4-Methylphenol	108.0	5.737	5.737	0.000	777673	20.000	19.074	
13 N-Nitroso-di-n-propylamine	70.0	5.764	5.764	0.000	680733	20.000	19.075	
12 Acetophenone	105.0	5.780	5.780	0.000	1098597	20.000	19.309	
15 Hexachloroethane	117.0	5.892	5.892	0.000	338481	20.000	19.255	
$ 16 Nitrobenzene-d5	128.0	5.914	5.914	0.000	395928	20.000	19.999	
17 Nitrobenzene	77.0	5.930	5.930	0.000	941092	20.000	18.887	
18 Isophorone	82.0	6.117	6.117	0.000	1645884	20.000	19.430	
20 2,4-Dimethylphenol	107.0	6.170	6.170	0.000	856710	20.000	19.834	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	482286	20.000	21.273	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	472413	20.000	20.664	
21 bis(2-Chloroethoxy)methane	93.0	6.250	6.250	0.000	941254	20.000	19.892	
$ 96 2,4-Dichlorophenol-d3	165.0	6.368	6.368	0.000	682040	20.000	20.493	

Report Date: 23-Dec-2015 18:27:19 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122321.D

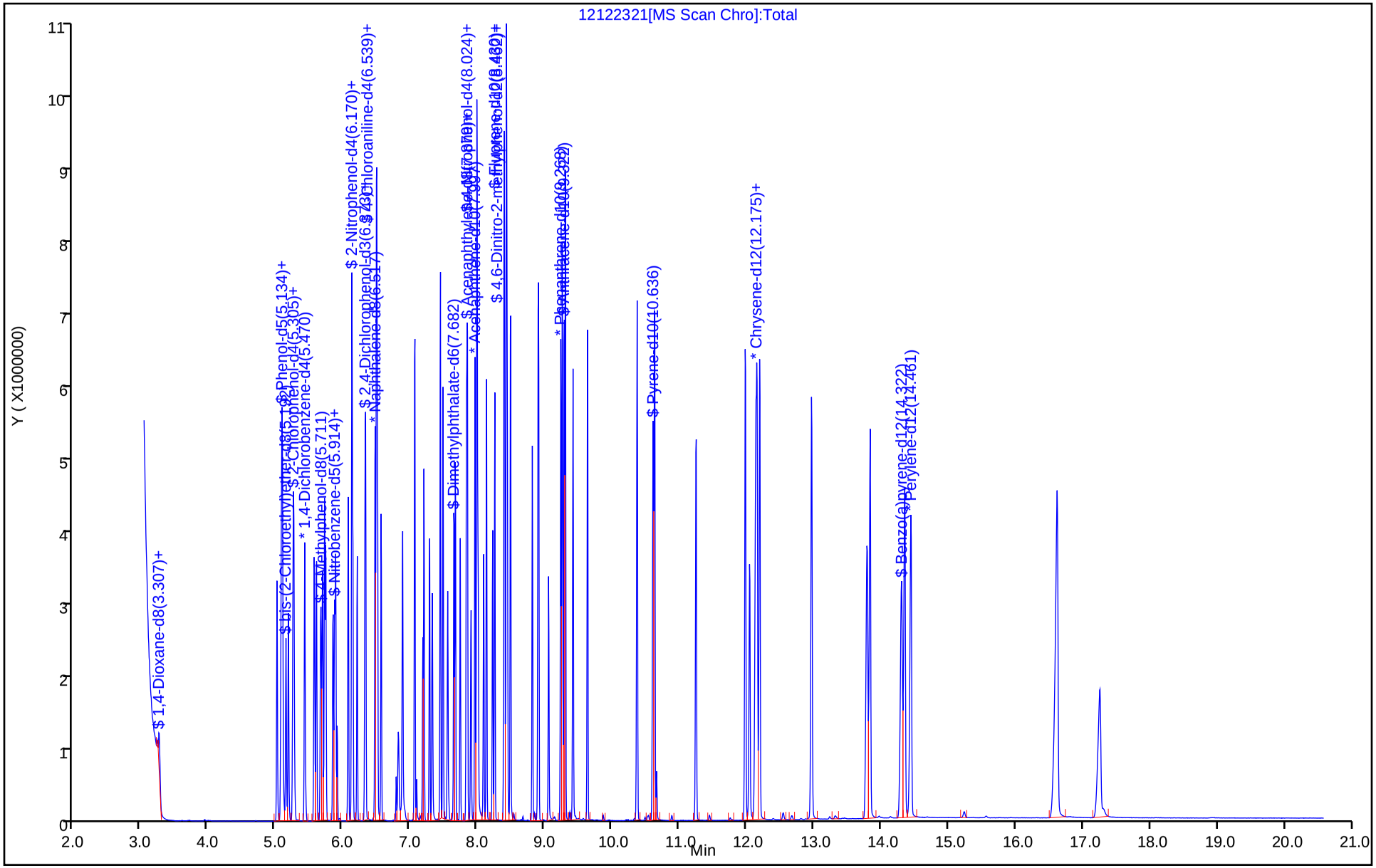
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 2,4-Dichlorophenol	162.0	6.373	6.373	0.000	673049	20.000	20.357	
* 23 Naphthalene-d8	136.0	6.517	6.517	0.000	2289999	20.000	20.000	
24 Naphthalene	128.0	6.533	6.533	0.000	2673082	20.000	21.656	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	1039372	20.000	20.717	
25 4-Chloroaniline	127.0	6.549	6.549	0.000	1414385	20.000	20.675	
26 Hexachlorobutadiene	225.0	6.603	6.603	0.000	392716	20.000	19.197	
27 Caprolactam	113.0	6.859	6.859	0.000	178887	20.000	19.212	
28 4-Chloro-3-methylphenol	107.0	6.923	6.923	0.000	685424	20.000	19.335	
29 2-Methylnaphthalene	142.0	7.105	7.105	0.000	1681167	20.000	21.107	
30 Hexachlorocyclopentadiene	237.0	7.222	7.222	0.000	314871	20.000	13.739	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.238	7.238	0.000	687715	20.000	20.514	
31 2,4,6-Trichlorophenol	196.0	7.324	7.324	0.000	427099	20.000	19.713	
32 2,4,5-Trichlorophenol	196.0	7.361	7.361	0.000	456287	20.000	20.039	
34 1,1'-Biphenyl	154.0	7.484	7.484	0.000	1919109	20.000	21.891	
35 2-Chloronaphthalene	162.0	7.522	7.522	0.000	1422527	20.000	21.108	
36 2-Nitroaniline	65.0	7.591	7.591	0.000	508708	20.000	19.705	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	1654679	20.000	21.283	
37 Dimethylphthalate	163.0	7.703	7.703	0.000	1676847	20.000	21.365	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	378149	20.000	21.195	
$ 99 Acenaphthylene-d8	160.0	7.869	7.869	0.000	2228274	20.000	21.661	
38 Acenaphthylene	152.0	7.885	7.885	0.000	2375229	20.000	22.128	
40 3-Nitroaniline	138.0	7.938	7.938	0.000	391864	20.000	20.966	
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	1190268	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.018	8.018	0.000	251459	20.000	20.256	
42 Acenaphthene	153.0	8.024	8.024	0.000	1630742	20.000	21.906	
$ 100 4-Nitrophenol-d4	143.0	8.034	8.034	0.000	374794	20.000	19.718	
44 4-Nitrophenol	109.0	8.045	8.045	0.000	231653	20.000	17.631	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	518695	20.000	21.271	
45 Dibenzofuran	168.0	8.168	8.168	0.000	2012474	20.000	21.171	
107 2,3,4,6-Tetrachlorophenol	232.0	8.259	8.259	0.000	397312	20.000	20.089	
47 Diethylphthalate	149.0	8.291	8.291	0.000	1710688	20.000	21.754	
49 4-Chlorophenyl-phenylether	204.0	8.424	8.424	0.000	866500	20.000	22.134	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1626726	20.000	22.301	
50 4-Nitroaniline	138.0	8.467	8.467	0.000	443791	20.000	21.549	
48 Fluorene	166.0	8.462	8.462	0.000	1901682	20.000	22.074	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	377346	20.000	19.066	
51 4,6-Dinitro-2-methylphenol	198.0	8.478	8.478	0.000	355007	20.000	18.628	
52 N-Nitrosodiphenylamine	169.0	8.526	8.526	0.000	1521671	20.000	20.739	
54 4-Bromophenyl-phenylether	248.0	8.846	8.846	0.000	492489	20.000	19.788	
55 Hexachlorobenzene	284.0	8.932	8.932	0.000	591752	20.000	19.865	
56 Atrazine	200.0	8.943	8.943	0.000	547138	20.000	20.552	
57 Pentachlorophenol	266.0	9.087	9.087	0.000	330581	20.000	17.918	
* 58 Phenanthrene-d10	188.0	9.268	9.268	0.000	2174497	20.000	20.000	
59 Phenanthrene	178.0	9.290	9.290	0.000	2558329	20.000	21.129	
$ 103 Anthracene-d10	188.0	9.322	9.322	0.000	2307221	20.000	20.812	
60 Anthracene	178.0	9.338	9.338	0.000	2691305	20.000	21.992	
106 Carbazole	167.0	9.450	9.450	0.000	2145821	20.000	20.068	
62 Di-n-butylphthalate	149.0	9.664	9.664	0.000	2941332	20.000	22.180	
63 Fluoranthene	202.0	10.401	10.401	0.000	2736278	20.000	21.236	
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2300296	20.000	21.115	
64 Pyrene	202.0	10.663	10.663	0.000	2921451	20.000	22.177	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
66 Butylbenzylphthalate	149.0	11.277	11.277	0.000	1280875	20.000	22.127	
71 bis(2-Ethylhexyl)phthalate	149.0	12.004	12.004	0.000	1856831	20.000	22.810	
68 3,3'-Dichlorobenzidine	252.0	12.073	12.073	0.000	897840	20.000	19.681	
67 Benzo(a)anthracene	228.0	12.159	12.159	0.000	2709250	20.000	20.644	
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	2496780	20.000	20.000	
70 Chrysene	228.0	12.217	12.217	0.000	2625666	20.000	21.174	
72 Di-n-octylphthalate	149.0	12.987	12.987	0.000	3195609	20.000	22.075	
73 Benzo(b)fluoranthene	252.0	13.809	13.809	0.000	2668949	20.000	19.244	
74 Benzo(k)fluoranthene	252.0	13.857	13.857	0.000	2871631	20.000	20.855	
$ 105 Benzo(a)pyrene-d12	264.0	14.322	14.322	0.000	2280648	20.000	19.585	
75 Benzo(a)pyrene	252.0	14.370	14.370	0.000	2776838	20.000	19.891	
* 76 Perylene-d12	264.0	14.461	14.461	0.000	2402135	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.625	16.625	0.000	2751960	20.000	18.103	
78 Dibenzo(a,h)anthracene	278.0	16.630	16.630	0.000	2516565	20.000	18.287	
79 Benzo(g,h,i)perylene	276.0	17.266	17.266	0.000	1940101	20.000	17.147	

Report Date: 23-Dec-2015 18:27:19 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122321.D				
Injection Date:	23-Dec-2015 17:59:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020PA	Lab ID:	SSTD020PA		
Sample Info:	12122315.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/31/2015 Time: 0844

Lab File ID: 12123102 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020PD Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
1,4-Dioxane	0.805	0.696	0.010	-13.6	40.0
Benzaldehyde	1.292	1.456	0.100	12.7	40.0
Phenol	1.990	2.042	0.080	2.6	20.0
Bis(2-Chloroethyl) ether	1.497	1.461	0.100	-2.4	20.0
2-Chlorophenol	1.533	1.568	0.200	2.3	20.0
2-Methylphenol	1.347	1.278	0.010	-5.1	20.0
2,2'-Oxybis(1-chloropropane)	2.781	2.304	0.010	-17.2	25.0
Acetophenone	2.039	1.972	0.060	-3.3	20.0
4-Methylphenol	1.461	1.383	0.010	-5.4	20.0
N-Nitroso-di-n propylamine	1.279	1.193	0.080	-6.7	25.0
Hexachloroethane	0.630	0.624	0.100	-0.9	20.0
Nitrobenzene	0.435	0.411	0.090	-5.6	20.0
Isophorone	0.740	0.707	0.100	-4.4	20.0
2-Nitrophenol	0.200	0.209	0.060	4.7	20.0
2,4-Dimethylphenol	0.377	0.377	0.050	0.0	25.0
Bis(2-chloroethoxy)methane	0.413	0.397	0.080	-3.9	20.0
2,4-Dichlorophenol	0.289	0.281	0.060	-2.7	20.0
Naphthalene	1.078	1.156	0.200	7.3	20.0
4-Chloroaniline	0.597	0.574	0.010	-3.9	40.0
Hexachlorobutadiene	0.179	0.169	0.040	-5.6	20.0
Caprolactam	0.081	0.086	0.010	5.5	30.0
4-Chloro-3-methylphenol	0.310	0.286	0.040	-7.7	20.0
2-Methylnaphthalene	0.696	0.738	0.100	6.1	20.0
Hexachlorocyclo-pentadiene	0.385	0.280	0.010	-27.3	40.0
2,4,6-Trichlorophenol	0.364	0.343	0.090	-5.9	20.0
2,4,5-Trichlorophenol	0.383	0.374	0.100	-2.3	20.0
1,1'-Biphenyl	1.473	1.602	0.200	8.7	20.0
2-Chloronaphthalene	1.132	1.195	0.300	5.5	20.0
2-Nitroaniline	0.434	0.432	0.060	-0.5	25.0
Dimethylphthalate	1.319	1.390	0.300	5.4	20.0
2,6-Dinitrotoluene	0.300	0.330	0.080	10.1	20.0
Acenaphthylene	1.804	1.930	0.400	7.0	20.0
3-Nitroaniline	0.314	0.348	0.010	10.7	25.0
Acenaphthene	1.251	1.281	0.200	2.4	20.0
2,4-Dinitrophenol	0.209	0.198	0.010	-5.3	50.0
4-Nitrophenol	0.221	0.199	0.010	-10.0	40.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/31/2015 Time: 0844

Lab File ID: 12123102 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020PD Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
Dibenzofuran	1.597	1.693	0.300	6.0	20.0
2,4-Dinitrotoluene	0.410	0.451	0.070	10.0	20.0
Diethylphthalate	1.321	1.460	0.300	10.5	20.0
1,2,4,5-Tetrachlorobenzene	0.563	0.522	0.100	-7.3	20.0
4-Chlorophenyl-phenyl ether	0.658	0.680	0.100	3.4	20.0
Fluorene	1.448	1.474	0.200	1.8	20.0
4-Nitroaniline	0.346	0.356	0.010	3.0	40.0
4,6-Dinitro-2-methylphenol	0.175	0.158	0.010	-9.6	30.0
4-Bromophenyl-phenylether	0.229	0.217	0.070	-5.3	20.0
N-Nitrosodiphenylamine	0.675	0.690	0.100	2.3	20.0
Hexachlorobenzene	0.274	0.247	0.050	-10.0	20.0
Atrazine	0.245	0.235	0.010	-4.2	25.0
Pentachlorophenol	0.170	0.130	0.010	-23.7	40.0
Phenanthrene	1.114	1.144	0.200	2.7	20.0
Anthracene	1.126	1.176	0.200	4.5	20.0
Carbazole	0.983	1.040	0.050	5.8	20.0
Di-n-butylphthalate	1.220	1.366	0.500	12.0	20.0
Fluoranthene	1.185	1.254	0.100	5.8	20.0
Pyrene	1.055	1.191	0.400	12.8	25.0
Butylbenzylphthalate	0.464	0.559	0.100	20.6	25.0
3,3'-Dichlorobenzidine	0.365	0.394	0.010	7.8	40.0
Benzo(a)anthracene	1.051	1.117	0.300	6.3	20.0
Chrysene	0.993	1.091	0.200	9.8	20.0
Bis(2-ethylhexyl)phthalate	0.652	0.795	0.200	21.9	25.0
Di-n-octylphthalate	1.205	1.431	0.010	18.8	40.0
Benzo(b)fluoranthene	1.155	1.132	0.010	-2.0	25.0
Benzo(k)fluoranthene	1.146	1.179	0.010	2.8	25.0
Benzo(a)pyrene	1.162	1.152	0.010	-0.9	20.0
Indeno(1,2,3-cd)pyrene	1.266	1.137	0.010	-10.2	25.0
Dibenzo(a,h)anthracene	1.146	1.047	0.010	-8.7	25.0
Benzo(g,h,i)perylene	0.942	0.781	0.010	-17.1	30.0
2,3,4,6-Tetrachlorophenol	0.332	0.314	0.040	-5.7	20.0
1,4-Dioxane-d8	0.670	0.619	0.010	-7.6	25.0
Phenol-d5	1.832	1.929	0.010	5.3	25.0
Bis-(2-chloroethyl)ether-d8	1.236	1.141	0.100	-7.7	20.0
2-Chlorophenol-d4	1.212	1.236	0.200	1.9	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/31/2015 Time: 0844

Lab File ID: 12123102 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020PD Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
4-Methylphenol-d8	1.331	1.230	0.010	-7.6	20.0
4-Chloroaniline-d4	0.438	0.425	0.010	-3.1	40.0
Nitrobenzene-d5	0.173	0.172	0.050	-0.8	20.0
2-Nitrophenol-d4	0.198	0.211	0.050	6.4	20.0
2,4-Dichlorophenol-d3	0.291	0.286	0.060	-1.6	20.0
Dimethylphthalate-d6	1.306	1.411	0.300	8.0	20.0
Acenaphthylene-d8	1.728	1.858	0.400	7.5	20.0
4-Nitrophenol-d4	0.319	0.275	0.010	-14.0	40.0
Fluorene-d10	1.226	1.271	0.100	3.7	20.0
4,6-Dinitro-2-methylphenol-d2	0.182	0.161	0.010	-11.6	30.0
Anthracene-d10	1.020	1.040	0.300	2.0	20.0
Pyrene-d10	0.873	0.960	0.300	10.0	25.0
Benzo(a)pyrene-d12	0.970	0.959	0.010	-1.1	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123102.D
Lab Sample ID: SSTD020PD Client Sample ID: SSTD020PD
Injection Date: 31-Dec-2015 08:44:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12123115.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m
Method Date: 31-Dec-2015 11:19:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
2 Benzaldehyde	1.292249	1.455918	0.1	12.7	40	113
$ 3 Phenol-d5	1.831928	1.928994	0.01	5.3	25	105
4 Phenol	1.990394	2.04205	0.08	2.6	20	103
5 bis(2-Chloroethyl)Ether	1.49731	1.461087	0.1	-2.4	20	98
$ 6 2-Chlorophenol-d4	1.212021	1.235601	0.2	1.9	20	102
7 2-Chlorophenol	1.532837	1.568361	0.2	2.3	20	102
10 2-Methylphenol	1.346697	1.277907	0.01	-5.1	20	95
11 2,2'-oxybis(1-Chloroprop	2.780997	2.30351	0.01	-17.2	25	83
12 Acetophenone	2.038836	1.972022	0.06	-3.3	20	97
13 N-Nitroso-di-n-propylami	1.278818	1.192599	0.08	-6.7	25	93
14 4-Methylphenol	1.461029	1.38257	0.01	-5.4	20	95
15 Hexachloroethane	0.629926	0.624104	0.1	-0.9	20	99
$ 16 Nitrobenzene-d5	0.172905	0.171566	0.05	-0.8	20	99
17 Nitrobenzene	0.435173	0.411011	0.09	-5.6	20	94
18 Isophorone	0.739821	0.707276	0.1	-4.4	20	96
19 2-Nitrophenol	0.199661	0.209047	0.06	4.7	20	105
20 2,4-Dimethylphenol	0.377242	0.377188	0.05	0	25	100
21 bis(2-Chloroethoxy)metha	0.413262	0.397317	0.08	-3.9	20	96
22 2,4-Dichlorophenol	0.288758	0.281069	0.06	-2.7	20	97
24 Naphthalene	1.078025	1.156407	0.2	7.3	20	107
25 4-Chloroaniline	0.597483	0.574322	0.01	-3.9	40	96
26 Hexachlorobutadiene	0.178661	0.168601	0.04	-5.6	20	94
27 Caprolactam	0.081321	0.085774	0.01	5.5	30	105
28 4-Chloro-3-methylphenol	0.309611	0.285713	0.04	-7.7	20	92
29 2-Methylnaphthalene	0.69563	0.738126	0.1	6.1	20	106
30 Hexachlorocyclopentadien	0.385099	0.279853	0.01	-27.3	40	73
31 2,4,6-Trichlorophenol	0.364046	0.342649	0.09	-5.9	20	94
32 2,4,5-Trichlorophenol	0.382601	0.373767	0.1	-2.3	20	98
34 1,1'-Biphenyl	1.473039	1.60167	0.2	8.7	20	109
35 2-Chloronaphthalene	1.132399	1.19486	0.3	5.5	20	106
36 2-Nitroaniline	0.433793	0.431554	0.06	-0.5	25	99
37 Dimethylphthalate	1.318765	1.390209	0.3	5.4	20	105
38 Acenaphthylene	1.80366	1.929826	0.4	7	20	107
39 2,6-Dinitrotoluene	0.299788	0.330214	0.08	10.1	20	110
40 3-Nitroaniline	0.314048	0.347588	0.01	10.7	25	111

Report Date: 04-Jan-2016 10:27:25 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123102.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Acenaphthene	1.250858	1.28091	0.2	2.4	20	102
43 2,4-Dinitrophenol	0.208592	0.19757	0.01	-5.3	50	95
44 4-Nitrophenol	0.220779	0.198648	0.01	-10	40	90
45 Dibenzofuran	1.597254	1.693093	0.3	6	20	106
46 2,4-Dinitrotoluene	0.409737	0.450812	0.07	10	20	110
47 Diethylphthalate	1.321358	1.460449	0.3	10.5	20	111
92 1,2,4,5-Tetrachlorobenze	0.563295	0.522128	0.1	-7.3	20	93
48 Fluorene	1.447601	1.473615	0.2	1.8	20	102
49 4-Chlorophenyl-phenyleth	0.657798	0.679881	0.1	3.4	20	103
50 4-Nitroaniline	0.346048	0.356421	0.01	3	40	103
51 4,6-Dinitro-2-methylphen	0.175287	0.158473	0.01	-9.6	30	90
52 N-Nitrosodiphenylamine	0.674839	0.690346	0.1	2.3	20	102
54 4-Bromophenyl-phenylethe	0.228913	0.216783	0.07	-5.3	20	95
55 Hexachlorobenzene	0.273986	0.246615	0.05	-10	20	90
56 Atrazine	0.244859	0.234649	0.01	-4.2	25	96
57 Pentachlorophenol	0.169693	0.129536	0.01	-23.7	40	76
59 Phenanthrene	1.113655	1.143749	0.2	2.7	20	103
60 Anthracene	1.125577	1.176238	0.2	4.5	20	105
62 Di-n-butylphthalate	1.21971	1.365807	0.5	12	20	112
63 Fluoranthene	1.185101	1.254392	0.1	5.8	20	106
64 Pyrene	1.055238	1.190603	0.4	12.8	25	113
66 Butylbenzylphthalate	0.463706	0.559367	0.1	20.6	25	121
67 Benzo(a)anthracene	1.051229	1.117285	0.3	6.3	20	106
68 3,3'-Dichlorobenzidine	0.365424	0.394037	0.01	7.8	40	108
70 Chrysene	0.993336	1.090819	0.2	9.8	20	110
71 bis(2-Ethylhexyl)phthala	0.652065	0.794748	0.2	21.9	25	122
72 Di-n-octylphthalate	1.205285	1.431346	0.01	18.8	40	119
73 Benzo(b)fluoranthene	1.154726	1.131514	0.01	-2	25	98
74 Benzo(k)fluoranthene	1.146463	1.178968	0.01	2.8	25	103
75 Benzo(a)pyrene	1.162294	1.151527	0.01	-0.9	20	99
77 Indeno(1,2,3-cd)pyrene	1.2657	1.136858	0.01	-10.2	25	90
78 Dibenzo(a,h)anthracene	1.145756	1.046517	0.01	-8.7	25	91
79 Benzo(g,h,i)perylene	0.94203	0.781325	0.01	-17.1	30	83
$ 93 bis-(2-Chloroethyl)ether	1.235609	1.140651	0.1	-7.7	20	92
$ 94 4-Methylphenol-d8	1.330674	1.229792	0.01	-7.6	20	92
$ 95 2-Nitrophenol-d4	0.198006	0.210699	0.05	6.4	20	106
$ 96 2,4-Dichlorophenol-d3	0.290671	0.286062	0.06	-1.6	20	98
$ 97 4-Chloroaniline-d4	0.438177	0.424781	0.01	-3.1	40	97
$ 98 Dimethylphthalate-d6	1.306354	1.411033	0.3	8	20	108
$ 99 Acenaphthylene-d8	1.728495	1.858325	0.4	7.5	20	108
$ 100 4-Nitrophenol-d4	0.319389	0.274616	0.01	-14	40	86
$ 101 Fluorene-d10	1.225675	1.271223	0.1	3.7	20	104
$ 102 4,6-Dinitro-2-methylphen	0.182033	0.160967	0.01	-11.6	30	88
$ 103 Anthracene-d10	1.019638	1.039758	0.3	2	20	102
$ 104 Pyrene-d10	0.872662	0.960133	0.3	10	25	110
$ 105 Benzo(a)pyrene-d12	0.969526	0.958778	0.01	-1.1	20	99
106 Carbazole	0.983462	1.040407	0.05	5.8	20	106

Report Date: 04-Jan-2016 10:27:25 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123102.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
107 2,3,4,6-Tetrachloropheno	0.332328	0.313527	0.04	-5.7	20	94
108 1,4-Dioxane	0.804964	0.695621	0.01	-13.6	40	86
$ 109 1,4-Dioxane-d8	0.670057	0.618974	0.01	-7.6	25	92

Report Date: 04-Jan-2016 10:27:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123102.D		
Lab Sample ID:	SSTD020PD	Client Sample ID:	SSTD020PD
Injection Date:	31-Dec-2015 08:44:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, SVMS 1673		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	31-Dec-2015 11:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.133	5.133	0.000	1050044	20.000	21.060	
108 1,4-Dioxane	88.0	3.322	3.322	0.000	151464	8.0000	6.9133	
$ 109 1,4-Dioxane-d8	96.0	3.301	3.301	0.000	134775	8.0000	7.3901	
4 Phenol	94.0	5.144	5.144	0.000	1111586	20.000	20.519	
2 Benzaldehyde	77.0	5.138	5.138	0.000	792526	20.000	22.533	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	620911	20.000	18.463	
5 bis(2-Chloroethyl)Ether	93.0	5.229	5.229	0.000	795340	20.000	19.516	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	672597	20.000	20.389	
7 2-Chlorophenol	128.0	5.309	5.309	0.000	853734	20.000	20.464	
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	544348	20.000	20.000	
10 2-Methylphenol	108.0	5.619	5.619	0.000	695626	20.000	18.978	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.641	5.641	0.000	1253911	20.000	16.566	
$ 94 4-Methylphenol-d8	113.0	5.721	5.721	0.000	669435	20.000	18.484	
14 4-Methylphenol	108.0	5.742	5.742	0.000	752599	20.000	18.926	
13 N-Nitroso-di-n-propylamine	70.0	5.763	5.763	0.000	649189	20.000	18.652	
12 Acetophenone	105.0	5.779	5.779	0.000	1073466	20.000	19.345	
15 Hexachloroethane	117.0	5.886	5.886	0.000	339730	20.000	19.815	
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	380546	20.000	19.845	
17 Nitrobenzene	77.0	5.929	5.929	0.000	911655	20.000	18.890	
18 Isophorone	82.0	6.116	6.116	0.000	1568793	20.000	19.120	
20 2,4-Dimethylphenol	107.0	6.175	6.175	0.000	836633	20.000	19.997	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	467346	20.000	21.282	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	463682	20.000	20.940	
21 bis(2-Chloroethoxy)methane	93.0	6.244	6.244	0.000	881280	20.000	19.228	
$ 96 2,4-Dichlorophenol-d3	165.0	6.372	6.372	0.000	634507	20.000	19.683	

Report Date: 04-Jan-2016 10:27:26 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123102.D

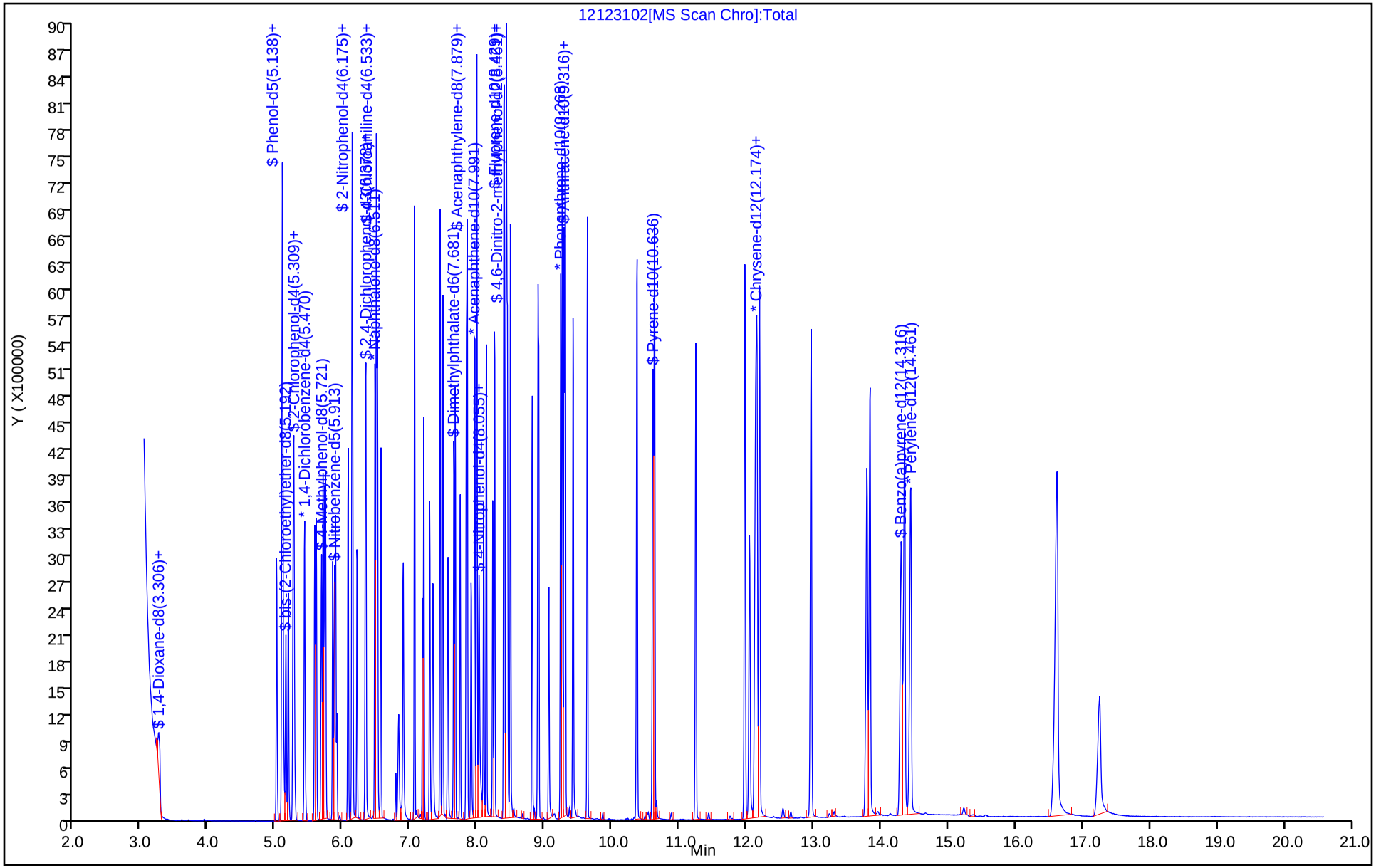
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 2,4-Dichlorophenol	162.0	6.378	6.378	0.000	623434	20.000	19.467	
* 23 Naphthalene-d8	136.0	6.511	6.511	0.000	2218078	20.000	20.000	
24 Naphthalene	128.0	6.533	6.533	0.000	2565002	20.000	21.454	
$ 97 4-Chloroaniline-d4	131.0	6.543	6.543	0.000	942198	20.000	19.389	
25 4-Chloroaniline	127.0	6.533	6.533	0.000	1273890	20.000	19.225	
26 Hexachlorobutadiene	225.0	6.602	6.602	0.000	373971	20.000	18.874	
27 Caprolactam	113.0	6.864	6.864	0.000	190254	20.000	21.095	
28 4-Chloro-3-methylphenol	107.0	6.933	6.933	0.000	633733	20.000	18.456	
29 2-Methylnaphthalene	142.0	7.099	7.099	0.000	1637220	20.000	21.222	
30 Hexachlorocyclopentadiene	237.0	7.222	7.222	0.000	345919	20.000	14.534	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.238	7.238	0.000	645388	20.000	18.538	
31 2,4,6-Trichlorophenol	196.0	7.323	7.323	0.000	423539	20.000	18.824	
32 2,4,5-Trichlorophenol	196.0	7.371	7.371	0.000	462003	20.000	19.538	
34 1,1'-Biphenyl	154.0	7.478	7.478	0.000	1979781	20.000	21.746	
35 2-Chloronaphthalene	162.0	7.521	7.521	0.000	1476934	20.000	21.103	
36 2-Nitroaniline	65.0	7.596	7.596	0.000	533432	20.000	19.897	
$ 98 Dimethylphthalate-d6	166.0	7.681	7.681	0.000	1744140	20.000	21.603	
37 Dimethylphthalate	163.0	7.703	7.703	0.000	1718400	20.000	21.084	
39 2,6-Dinitrotoluene	165.0	7.777	7.777	0.000	408168	20.000	22.030	
$ 99 Acenaphthylene-d8	160.0	7.868	7.868	0.000	2297025	20.000	21.502	
38 Acenaphthylene	152.0	7.884	7.884	0.000	2385406	20.000	21.399	
40 3-Nitroaniline	138.0	7.938	7.938	0.000	429644	20.000	22.136	
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	1236073	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.023	8.023	0.000	244211	20.000	18.943	
42 Acenaphthene	153.0	8.023	8.023	0.000	1583298	20.000	20.480	
$ 100 4-Nitrophenol-d4	143.0	8.055	8.055	0.000	339446	20.000	17.196	
44 4-Nitrophenol	109.0	8.061	8.061	0.000	245544	20.000	17.995	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	557236	20.000	22.005	
45 Dibenzofuran	168.0	8.167	8.167	0.000	2092787	20.000	21.200	
107 2,3,4,6-Tetrachlorophenol	232.0	8.258	8.258	0.000	387542	20.000	18.869	
47 Diethylphthalate	149.0	8.285	8.285	0.000	1805222	20.000	22.105	
49 4-Chlorophenyl-phenylether	204.0	8.424	8.424	0.000	840382	20.000	20.671	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1571325	20.000	20.743	
50 4-Nitroaniline	138.0	8.472	8.472	0.000	440562	20.000	20.600	
48 Fluorene	166.0	8.461	8.461	0.000	1821496	20.000	20.359	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	364601	20.000	17.686	
51 4,6-Dinitro-2-methylphenol	198.0	8.483	8.483	0.000	358952	20.000	18.082	
52 N-Nitrosodiphenylamine	169.0	8.520	8.520	0.000	1563678	20.000	20.460	
54 4-Bromophenyl-phenylether	248.0	8.846	8.846	0.000	491028	20.000	18.940	
55 Hexachlorobenzene	284.0	8.931	8.931	0.000	558599	20.000	18.002	
56 Atrazine	200.0	8.942	8.942	0.000	531494	20.000	19.166	
57 Pentachlorophenol	266.0	9.092	9.092	0.000	293407	20.000	15.267	
* 58 Phenanthrene-d10	188.0	9.268	9.268	0.000	2265063	20.000	20.000	
59 Phenanthrene	178.0	9.289	9.289	0.000	2590664	20.000	20.540	
$ 103 Anthracene-d10	188.0	9.316	9.316	0.000	2355117	20.000	20.395	
60 Anthracene	178.0	9.337	9.337	0.000	2664253	20.000	20.900	
106 Carbazole	167.0	9.450	9.450	0.000	2356588	20.000	21.158	
62 Di-n-butylphthalate	149.0	9.663	9.663	0.000	3093639	20.000	22.396	
63 Fluoranthene	202.0	10.401	10.401	0.000	2841278	20.000	21.169	
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2393809	20.000	22.005	
64 Pyrene	202.0	10.657	10.657	0.000	2968418	20.000	22.566	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
66 Butylbenzylphthalate	149.0	11.271	11.271	0.000	1394618	20.000	24.126	
71 bis(2-Ethylhexyl)phthalate	149.0	11.998	11.998	0.000	1981470	20.000	24.376	
68 3,3'-Dichlorobenzidine	252.0	12.067	12.067	0.000	982415	20.000	21.566	
67 Benzo(a)anthracene	228.0	12.158	12.158	0.000	2785621	20.000	21.257	
* 69 Chrysene-d12	240.0	12.179	12.179	0.000	2493206	20.000	20.000	
70 Chrysene	228.0	12.217	12.217	0.000	2719637	20.000	21.963	
72 Di-n-octylphthalate	149.0	12.981	12.981	0.000	3463818	20.000	23.751	
73 Benzo(b)fluoranthene	252.0	13.809	13.809	0.000	2738234	20.000	19.598	
74 Benzo(k)fluoranthene	252.0	13.857	13.857	0.000	2853070	20.000	20.567	
$ 105 Benzo(a)pyrene-d12	264.0	14.316	14.316	0.000	2320218	20.000	19.778	
75 Benzo(a)pyrene	252.0	14.370	14.370	0.000	2786665	20.000	19.815	
* 76 Perylene-d12	264.0	14.461	14.461	0.000	2419973	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.624	16.624	0.000	2751166	20.000	17.964	
78 Dibenzo(a,h)anthracene	278.0	16.630	16.630	0.000	2532542	20.000	18.268	
79 Benzo(g,h,i)perylene	276.0	17.260	17.260	0.000	1890785	20.000	16.588	

Report Date: 04-Jan-2016 10:27:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123102.D				
Injection Date:	31-Dec-2015 08:44:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020PD	Lab ID:	SSTD020PD		
Sample Info:	12123115.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/31/2015 Time: 1316

Lab File ID: 12123111 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020PG Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
1,4-Dioxane	0.805	0.694	0.010	-13.8	40.0
Benzaldehyde	1.292	1.343	0.100	4.0	40.0
Phenol	1.990	1.964	0.080	-1.3	20.0
Bis(2-Chloroethyl) ether	1.497	1.413	0.100	-5.6	20.0
2-Chlorophenol	1.533	1.527	0.200	-0.4	20.0
2-Methylphenol	1.347	1.259	0.010	-6.5	20.0
2,2'-Oxybis(1-chloropropane)	2.781	2.250	0.010	-19.1	25.0
Acetophenone	2.039	1.935	0.060	-5.1	20.0
4-Methylphenol	1.461	1.354	0.010	-7.3	20.0
N-Nitroso-di-n propylamine	1.279	1.167	0.080	-8.8	25.0
Hexachloroethane	0.630	0.614	0.100	-2.6	20.0
Nitrobenzene	0.435	0.404	0.090	-7.2	20.0
Isophorone	0.740	0.706	0.100	-4.6	20.0
2-Nitrophenol	0.200	0.212	0.060	6.3	20.0
2,4-Dimethylphenol	0.377	0.370	0.050	-2.0	25.0
Bis(2-chloroethoxy)methane	0.413	0.396	0.080	-4.1	20.0
2,4-Dichlorophenol	0.289	0.279	0.060	-3.5	20.0
Naphthalene	1.078	1.146	0.200	6.3	20.0
4-Chloroaniline	0.597	0.557	0.010	-6.7	40.0
Hexachlorobutadiene	0.179	0.170	0.040	-4.8	20.0
Caprolactam	0.081	0.086	0.010	5.2	30.0
4-Chloro-3-methylphenol	0.310	0.287	0.040	-7.4	20.0
2-Methylnaphthalene	0.696	0.742	0.100	6.7	20.0
Hexachlorocyclo-pentadiene	0.385	0.278	0.010	-27.7	40.0
2,4,6-Trichlorophenol	0.364	0.338	0.090	-7.1	20.0
2,4,5-Trichlorophenol	0.383	0.353	0.100	-7.7	20.0
1,1'-Biphenyl	1.473	1.621	0.200	10.0	20.0
2-Chloronaphthalene	1.132	1.178	0.300	4.1	20.0
2-Nitroaniline	0.434	0.418	0.060	-3.6	25.0
Dimethylphthalate	1.319	1.423	0.300	7.9	20.0
2,6-Dinitrotoluene	0.300	0.316	0.080	5.4	20.0
Acenaphthylene	1.804	2.022	0.400	12.1	20.0
3-Nitroaniline	0.314	0.304	0.010	-3.1	25.0
Acenaphthene	1.251	1.383	0.200	10.6	20.0
2,4-Dinitrophenol	0.209	0.206	0.010	-1.1	50.0
4-Nitrophenol	0.221	0.192	0.010	-12.8	40.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/31/2015 Time: 1316

Lab File ID: 12123111 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020PG Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	RRF	RRF 20	MIN RRF	%D	MAX %D
Dibenzofuran	1.597	1.691	0.300	5.8	20.0
2,4-Dinitrotoluene	0.410	0.431	0.070	5.2	20.0
Diethylphthalate	1.321	1.497	0.300	13.3	20.0
1,2,4,5-Tetrachlorobenzene	0.563	0.562	0.100	-0.2	20.0
4-Chlorophenyl-phenyl ether	0.658	0.735	0.100	11.7	20.0
Fluorene	1.448	1.587	0.200	9.6	20.0
4-Nitroaniline	0.346	0.364	0.010	5.1	40.0
4,6-Dinitro-2-methylphenol	0.175	0.170	0.010	-2.9	30.0
4-Bromophenyl-phenylether	0.229	0.223	0.070	-2.5	20.0
N-Nitrosodiphenylamine	0.675	0.712	0.100	5.5	20.0
Hexachlorobenzene	0.274	0.261	0.050	-4.6	20.0
Atrazine	0.245	0.243	0.010	-0.8	25.0
Pentachlorophenol	0.170	0.117	0.010	-30.8	40.0
Phenanthrene	1.114	1.200	0.200	7.7	20.0
Anthracene	1.126	1.256	0.200	11.6	20.0
Carbazole	0.983	1.013	0.050	3.0	20.0
Di-n-butylphthalate	1.220	1.429	0.500	17.2	20.0
Fluoranthene	1.185	1.257	0.100	6.0	20.0
Pyrene	1.055	1.205	0.400	14.2	25.0
Butylbenzylphthalate	0.464	0.539	0.100	16.2	25.0
3,3'-Dichlorobenzidine	0.365	0.259	0.010	-29.2	40.0
Benzo(a)anthracene	1.051	1.073	0.300	2.0	20.0
Chrysene	0.993	1.040	0.200	4.7	20.0
Bis(2-ethylhexyl)phthalate	0.652	0.778	0.200	19.3	25.0
Di-n-octylphthalate	1.205	1.570	0.010	30.3	40.0
Benzo(b)fluoranthene	1.155	1.173	0.010	1.6	25.0
Benzo(k)fluoranthene	1.146	1.253	0.010	9.3	25.0
Benzo(a)pyrene	1.162	1.192	0.010	2.5	20.0
Indeno(1,2,3-cd)pyrene	1.266	1.110	0.010	-12.3	25.0
Dibenzo(a,h)anthracene	1.146	1.005	0.010	-12.2	25.0
Benzo(g,h,i)perylene	0.942	0.731	0.010	-22.4	30.0
2,3,4,6-Tetrachlorophenol	0.332	0.297	0.040	-10.5	20.0
1,4-Dioxane-d8	0.670	0.606	0.010	-9.6	25.0
Phenol-d5	1.832	1.869	0.010	2.0	25.0
Bis-(2-chloroethyl)ether-d8	1.236	1.103	0.100	-10.7	20.0
2-Chlorophenol-d4	1.212	1.208	0.200	-0.3	20.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: Low

Instrument ID: Agilent MSD12 Calibration Date: 12/31/2015 Time: 1316

Lab File ID: 12123111 Init. Calib. Date(s): 12/11/2015 12/11/2015

EPA Sample No.: SSTD020PG Init. Calib. Time(s): 0848 1042

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) _____ Purge Volume: _____ (mL)

COMPOUND	$\overline{RRF}$	RRF 20	MIN RRF	%D	MAX %D
4-Methylphenol-d8	1.331	1.222	0.010	-8.2	20.0
4-Chloroaniline-d4	0.438	0.407	0.010	-7.0	40.0
Nitrobenzene-d5	0.173	0.169	0.050	-2.5	20.0
2-Nitrophenol-d4	0.198	0.211	0.050	6.7	20.0
2,4-Dichlorophenol-d3	0.291	0.289	0.060	-0.4	20.0
Dimethylphthalate-d6	1.306	1.393	0.300	6.6	20.0
Acenaphthylene-d8	1.728	1.872	0.400	8.3	20.0
4-Nitrophenol-d4	0.319	0.221	0.010	-30.7	40.0
Fluorene-d10	1.226	1.397	0.100	14.0	20.0
4,6-Dinitro-2-methylphenol-d2	0.182	0.182	0.010	-0.1	30.0
Anthracene-d10	1.020	1.088	0.300	6.7	20.0
Pyrene-d10	0.873	0.924	0.300	5.9	25.0
Benzo(a)pyrene-d12	0.970	0.972	0.010	0.3	20.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123111.D
Lab Sample ID: SSTD020PG Client Sample ID: SSTD020PG
Injection Date: 31-Dec-2015 13:16:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12123115.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12123115.b\SOMBNA-end.m
Method Date: 31-Dec-2015 13:38:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
2 Benzaldehyde	1.292249	1.343401	0.1	4	40	104
$ 3 Phenol-d5	1.831928	1.868712	0.01	2	25	102
4 Phenol	1.990394	1.963685	0.08	-1.3	20	99
5 bis(2-Chloroethyl)Ether	1.49731	1.412851	0.1	-5.6	20	94
$ 6 2-Chlorophenol-d4	1.212021	1.208449	0.2	-0.3	20	100
7 2-Chlorophenol	1.532837	1.526814	0.2	-0.4	20	100
10 2-Methylphenol	1.346697	1.259092	0.01	-6.5	20	93
11 2,2'-oxybis(1-Chloroprop	2.780997	2.249973	0.01	-19.1	25	81
12 Acetophenone	2.038836	1.934886	0.06	-5.1	20	95
13 N-Nitroso-di-n-propylami	1.278818	1.166776	0.08	-8.8	25	91
14 4-Methylphenol	1.461029	1.353883	0.01	-7.3	20	93
15 Hexachloroethane	0.629926	0.613507	0.1	-2.6	20	97
$ 16 Nitrobenzene-d5	0.172905	0.168631	0.05	-2.5	20	98
17 Nitrobenzene	0.435173	0.404014	0.09	-7.2	20	93
18 Isophorone	0.739821	0.705792	0.1	-4.6	20	95
19 2-Nitrophenol	0.199661	0.212175	0.06	6.3	20	106
20 2,4-Dimethylphenol	0.377242	0.369702	0.05	-2	25	98
21 bis(2-Chloroethoxy)metha	0.413262	0.396136	0.08	-4.1	20	96
22 2,4-Dichlorophenol	0.288758	0.278572	0.06	-3.5	20	96
24 Naphthalene	1.078025	1.146065	0.2	6.3	20	106
25 4-Chloroaniline	0.597483	0.557453	0.01	-6.7	40	93
26 Hexachlorobutadiene	0.178661	0.170104	0.04	-4.8	20	95
27 Caprolactam	0.081321	0.085537	0.01	5.2	30	105
28 4-Chloro-3-methylphenol	0.309611	0.28661	0.04	-7.4	20	93
29 2-Methylnaphthalene	0.69563	0.742073	0.1	6.7	20	107
30 Hexachlorocyclopentadien	0.385099	0.27837	0.01	-27.7	40	72
31 2,4,6-Trichlorophenol	0.364046	0.338368	0.09	-7.1	20	93
32 2,4,5-Trichlorophenol	0.382601	0.353097	0.1	-7.7	20	92
34 1,1'-Biphenyl	1.473039	1.621004	0.2	10	20	110
35 2-Chloronaphthalene	1.132399	1.178482	0.3	4.1	20	104
36 2-Nitroaniline	0.433793	0.418	0.06	-3.6	25	96
37 Dimethylphthalate	1.318765	1.423469	0.3	7.9	20	108
38 Acenaphthylene	1.80366	2.022396	0.4	12.1	20	112
39 2,6-Dinitrotoluene	0.299788	0.315851	0.08	5.4	20	105
40 3-Nitroaniline	0.314048	0.304352	0.01	-3.1	25	97

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
42 Acenaphthene	1.250858	1.383161	0.2	10.6	20	111
43 2,4-Dinitrophenol	0.208592	0.206312	0.01	-1.1	50	99
44 4-Nitrophenol	0.220779	0.192431	0.01	-12.8	40	87
45 Dibenzofuran	1.597254	1.690574	0.3	5.8	20	106
46 2,4-Dinitrotoluene	0.409737	0.431244	0.07	5.2	20	105
47 Diethylphthalate	1.321358	1.497396	0.3	13.3	20	113
92 1,2,4,5-Tetrachlorobenze	0.563295	0.56241	0.1	-0.2	20	100
48 Fluorene	1.447601	1.586662	0.2	9.6	20	110
49 4-Chlorophenyl-phenyleth	0.657798	0.734956	0.1	11.7	20	112
50 4-Nitroaniline	0.346048	0.363667	0.01	5.1	40	105
51 4,6-Dinitro-2-methylphen	0.175287	0.170175	0.01	-2.9	30	97
52 N-Nitrosodiphenylamine	0.674839	0.712173	0.1	5.5	20	106
54 4-Bromophenyl-phenylethe	0.228913	0.223202	0.07	-2.5	20	98
55 Hexachlorobenzene	0.273986	0.261347	0.05	-4.6	20	95
56 Atrazine	0.244859	0.242867	0.01	-0.8	25	99
57 Pentachlorophenol	0.169693	0.117468	0.01	-30.8	40	69
59 Phenanthrene	1.113655	1.199762	0.2	7.7	20	108
60 Anthracene	1.125577	1.256428	0.2	11.6	20	112
62 Di-n-butylphthalate	1.21971	1.428963	0.5	17.2	20	117
63 Fluoranthene	1.185101	1.256635	0.1	6	20	106
64 Pyrene	1.055238	1.204585	0.4	14.2	25	114
66 Butylbenzylphthalate	0.463706	0.538618	0.1	16.2	25	116
67 Benzo(a)anthracene	1.051229	1.072562	0.3	2	20	102
68 3,3'-Dichlorobenzidine	0.365424	0.258772	0.01	-29.2	40	71
70 Chrysene	0.993336	1.040268	0.2	4.7	20	105
71 bis(2-Ethylhexyl)phthala	0.652065	0.778202	0.2	19.3	25	119
72 Di-n-octylphthalate	1.205285	1.570459	0.01	30.3	40	130
73 Benzo(b)fluoranthene	1.154726	1.173116	0.01	1.6	25	102
74 Benzo(k)fluoranthene	1.146463	1.253355	0.01	9.3	25	109
75 Benzo(a)pyrene	1.162294	1.191609	0.01	2.5	20	103
77 Indeno(1,2,3-cd)pyrene	1.2657	1.109946	0.01	-12.3	25	88
78 Dibenzo(a,h)anthracene	1.145756	1.005457	0.01	-12.2	25	88
79 Benzo(g,h,i)perylene	0.94203	0.731283	0.01	-22.4	30	78
$ 93 bis-(2-Chloroethyl)ether	1.235609	1.103281	0.1	-10.7	20	89
$ 94 4-Methylphenol-d8	1.330674	1.221752	0.01	-8.2	20	92
$ 95 2-Nitrophenol-d4	0.198006	0.211356	0.05	6.7	20	107
$ 96 2,4-Dichlorophenol-d3	0.290671	0.289431	0.06	-0.4	20	100
$ 97 4-Chloroaniline-d4	0.438177	0.40732	0.01	-7	40	93
$ 98 Dimethylphthalate-d6	1.306354	1.392852	0.3	6.6	20	107
$ 99 Acenaphthylene-d8	1.728495	1.871882	0.4	8.3	20	108
$ 100 4-Nitrophenol-d4	0.319389	0.221482	0.01	-30.7	40	69
$ 101 Fluorene-d10	1.225675	1.397135	0.1	14	20	114
$ 102 4,6-Dinitro-2-methylphen	0.182033	0.181924	0.01	-0.1	30	100
$ 103 Anthracene-d10	1.019638	1.087945	0.3	6.7	20	107
$ 104 Pyrene-d10	0.872662	0.924088	0.3	5.9	25	106
$ 105 Benzo(a)pyrene-d12	0.969526	0.972141	0.01	0.3	20	100
106 Carbazole	0.983462	1.012884	0.05	3	20	103

Report Date: 04-Jan-2016 10:27:36 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123111.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
107 2,3,4,6-Tetrachloropheno	0.332328	0.297365	0.04	-10.5	20	89
108 1,4-Dioxane	0.804964	0.693735	0.01	-13.8	40	86
$ 109 1,4-Dioxane-d8	0.670057	0.605825	0.01	-9.6	25	90

Shealy Environmental Services
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123111.D
Lab Sample ID: SSTD020PG Client Sample ID: SSTD020PG
Injection Date: 31-Dec-2015 13:16:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd12.i
Sample Info: 12123115.b, SVMS 1673
Method: \\Organics\HH\chem\msd12.i\12123115.b\SOMBNA-end.m
Method Date: 31-Dec-2015 13:38:30 Quant Method: ISTD
Calib Date: 11-Dec-2015 10:42:30 Calib File: 12121106.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1: Zebron ZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: rbh Review Date: 31-Dec-2015 13:38:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 3 Phenol-d5	99.0	5.133	5.133	0.000	986964	20.000	20.402	
108 1,4-Dioxane	88.0	3.317	3.317	0.000	146559	8.0000	6.8946	
$ 109 1,4-Dioxane-d8	96.0	3.296	3.296	0.000	127987	8.0000	7.2331	
4 Phenol	94.0	5.144	5.144	0.000	1037124	20.000	19.732	
2 Benzaldehyde	77.0	5.139	5.139	0.000	709520	20.000	20.792	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	582700	20.000	17.858	
5 bis(2-Chloroethyl)Ether	93.0	5.230	5.230	0.000	746200	20.000	18.872	
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	638245	20.000	19.941	
7 2-Chlorophenol	128.0	5.310	5.310	0.000	806390	20.000	19.921	
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	528152	20.000	20.000	
10 2-Methylphenol	108.0	5.620	5.620	0.000	664992	20.000	18.699	
11 2,2'-oxybis(1-Chloropropane)	45.0	5.641	5.641	0.000	1188328	20.000	16.181	
$ 94 4-Methylphenol-d8	113.0	5.721	5.721	0.000	645271	20.000	18.363	
14 4-Methylphenol	108.0	5.742	5.742	0.000	715056	20.000	18.533	
13 N-Nitroso-di-n-propylamine	70.0	5.764	5.764	0.000	616235	20.000	18.248	
12 Acetophenone	105.0	5.780	5.780	0.000	1021914	20.000	18.980	
15 Hexachloroethane	117.0	5.887	5.887	0.000	324025	20.000	19.479	
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	358725	20.000	19.506	
17 Nitrobenzene	77.0	5.929	5.929	0.000	859450	20.000	18.568	
18 Isophorone	82.0	6.116	6.116	0.000	1501415	20.000	19.080	
20 2,4-Dimethylphenol	107.0	6.175	6.175	0.000	786459	20.000	19.600	
$ 95 2-Nitrophenol-d4	143.0	6.175	6.175	0.000	449614	20.000	21.348	
19 2-Nitrophenol	139.0	6.186	6.186	0.000	451356	20.000	21.254	
21 bis(2-Chloroethoxy)methane	93.0	6.245	6.245	0.000	842692	20.000	19.171	
$ 96 2,4-Dichlorophenol-d3	165.0	6.373	6.373	0.000	615700	20.000	19.915	

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Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
22 2,4-Dichlorophenol	162.0	6.378	6.378	0.000	592600	20.000	19.295	
* 23 Naphthalene-d8	136.0	6.512	6.512	0.000	2127278	20.000	20.000	
24 Naphthalene	128.0	6.533	6.533	0.000	2437998	20.000	21.262	
$ 97 4-Chloroaniline-d4	131.0	6.544	6.544	0.000	866482	20.000	18.592	
25 4-Chloroaniline	127.0	6.533	6.533	0.000	1185858	20.000	18.660	
26 Hexachlorobutadiene	225.0	6.602	6.602	0.000	361859	20.000	19.042	
27 Caprolactam	113.0	6.870	6.870	0.000	181962	20.000	21.037	
28 4-Chloro-3-methylphenol	107.0	6.934	6.934	0.000	609700	20.000	18.514	
29 2-Methylnaphthalene	142.0	7.099	7.099	0.000	1578595	20.000	21.335	
30 Hexachlorocyclopentadiene	237.0	7.217	7.217	0.000	304436	20.000	14.457	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.238	7.238	0.000	615072	20.000	19.969	
31 2,4,6-Trichlorophenol	196.0	7.324	7.324	0.000	370052	20.000	18.589	
32 2,4,5-Trichlorophenol	196.0	7.372	7.372	0.000	386160	20.000	18.458	
34 1,1'-Biphenyl	154.0	7.479	7.479	0.000	1772790	20.000	22.009	
35 2-Chloronaphthalene	162.0	7.521	7.521	0.000	1288831	20.000	20.814	
36 2-Nitroaniline	65.0	7.596	7.596	0.000	457140	20.000	19.272	
$ 98 Dimethylphthalate-d6	166.0	7.687	7.687	0.000	1523275	20.000	21.324	
37 Dimethylphthalate	163.0	7.703	7.703	0.000	1556758	20.000	21.588	
39 2,6-Dinitrotoluene	165.0	7.778	7.778	0.000	345426	20.000	21.072	
$ 99 Acenaphthylene-d8	160.0	7.869	7.869	0.000	2047159	20.000	21.659	
38 Acenaphthylene	152.0	7.885	7.885	0.000	2211767	20.000	22.425	
40 3-Nitroaniline	138.0	7.943	7.943	0.000	332851	20.000	19.383	
* 41 Acenaphthene-d10	164.0	7.997	7.997	0.000	1093637	20.000	20.000	
43 2,4-Dinitrophenol	184.0	8.024	8.024	0.000	225630	20.000	19.781	
42 Acenaphthene	153.0	8.024	8.024	0.000	1512676	20.000	22.115	
$ 100 4-Nitrophenol-d4	143.0	8.056	8.056	0.000	242221	20.000	13.869	
44 4-Nitrophenol	109.0	8.061	8.061	0.000	210450	20.000	17.432	
46 2,4-Dinitrotoluene	165.0	8.125	8.125	0.000	471624	20.000	21.050	
45 Dibenzofuran	168.0	8.168	8.168	0.000	1848874	20.000	21.169	
107 2,3,4,6-Tetrachlorophenol	232.0	8.259	8.259	0.000	325209	20.000	17.896	
47 Diethylphthalate	149.0	8.291	8.291	0.000	1637608	20.000	22.665	
49 4-Chlorophenyl-phenylether	204.0	8.424	8.424	0.000	803775	20.000	22.346	
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1527959	20.000	22.798	
50 4-Nitroaniline	138.0	8.472	8.472	0.000	397720	20.000	21.018	
48 Fluorene	166.0	8.462	8.462	0.000	1735232	20.000	21.921	
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.472	8.472	0.000	358766	20.000	19.988	
51 4,6-Dinitro-2-methylphenol	198.0	8.483	8.483	0.000	335597	20.000	19.417	
52 N-Nitrosodiphenylamine	169.0	8.526	8.526	0.000	1404453	20.000	21.106	
54 4-Bromophenyl-phenylether	248.0	8.846	8.846	0.000	440169	20.000	19.501	
55 Hexachlorobenzene	284.0	8.932	8.932	0.000	515393	20.000	19.077	
56 Atrazine	200.0	8.942	8.942	0.000	478950	20.000	19.837	
57 Pentachlorophenol	266.0	9.092	9.092	0.000	231655	20.000	13.845	
* 58 Phenanthrene-d10	188.0	9.268	9.268	0.000	1972066	20.000	20.000	
59 Phenanthrene	178.0	9.290	9.290	0.000	2366009	20.000	21.546	
$ 103 Anthracene-d10	188.0	9.316	9.316	0.000	2145499	20.000	21.340	
60 Anthracene	178.0	9.338	9.338	0.000	2477758	20.000	22.325	
106 Carbazole	167.0	9.455	9.455	0.000	1997475	20.000	20.598	
62 Di-n-butylphthalate	149.0	9.664	9.664	0.000	2818010	20.000	23.431	
63 Fluoranthene	202.0	10.401	10.401	0.000	2478167	20.000	21.207	
$ 104 Pyrene-d10	212.0	10.636	10.636	0.000	2073027	20.000	21.179	
64 Pyrene	202.0	10.657	10.657	0.000	2702270	20.000	22.831	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
66 Butylbenzylphthalate	149.0	11.272	11.272	0.000	1208294	20.000	23.231	
71 bis(2-Ethylhexyl)phthalate	149.0	11.998	11.998	0.000	1745758	20.000	23.869	
68 3,3'-Dichlorobenzidine	252.0	12.068	12.068	0.000	580508	20.000	14.163	
67 Benzo(a)anthracene	228.0	12.158	12.158	0.000	2406100	20.000	20.406	
* 69 Chrysene-d12	240.0	12.180	12.180	0.000	2243321	20.000	20.000	
70 Chrysene	228.0	12.217	12.217	0.000	2333656	20.000	20.945	
72 Di-n-octylphthalate	149.0	12.981	12.981	0.000	2988589	20.000	26.060	
73 Benzo(b)fluoranthene	252.0	13.809	13.809	0.000	2232444	20.000	20.319	
74 Benzo(k)fluoranthene	252.0	13.857	13.857	0.000	2385139	20.000	21.865	
$ 105 Benzo(a)pyrene-d12	264.0	14.317	14.317	0.000	1849988	20.000	20.054	
75 Benzo(a)pyrene	252.0	14.370	14.370	0.000	2267637	20.000	20.504	
* 76 Perylene-d12	264.0	14.461	14.461	0.000	1903004	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0	16.614	16.614	0.000	2112232	20.000	17.539	
78 Dibenzo(a,h)anthracene	278.0	16.625	16.625	0.000	1913389	20.000	17.551	
79 Benzo(g,h,i)perylene	276.0	17.250	17.250	0.000	1391634	20.000	15.526	

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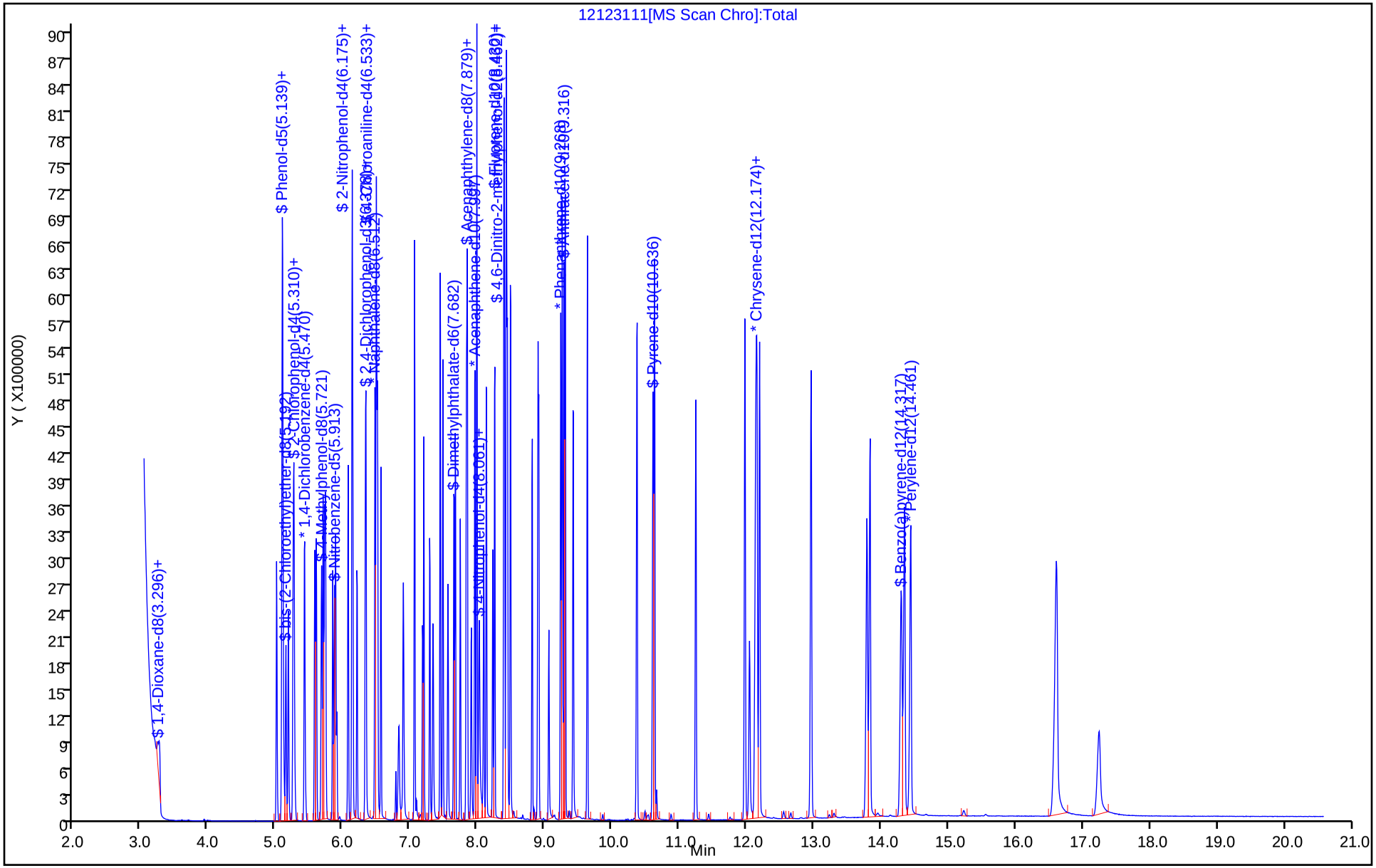
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123111.D				
Injection Date:	31-Dec-2015 13:16:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SSTD020PG	Lab ID:	SSTD020PG		
Sample Info:	12123115.b, SVMS 1673				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



SEMIVOLATILE RAW QC DATA

DFTPP Data

Blank Data

Matrix Spike / Matrix Spike Duplicate-optional

Laboratory Control Sample Data-optional

DFTPP Data

DFTPPs are arranged in chronological order by instrument

-Reconstructed Total Ion Chromatogram

-Bar Graph Spectrum & Tabulated Relative Abundances

-Mass Listing

Report Date: 11-Dec-2015 16:07:57 AIM Revision: 1.0 26-May-2015 13:41:26

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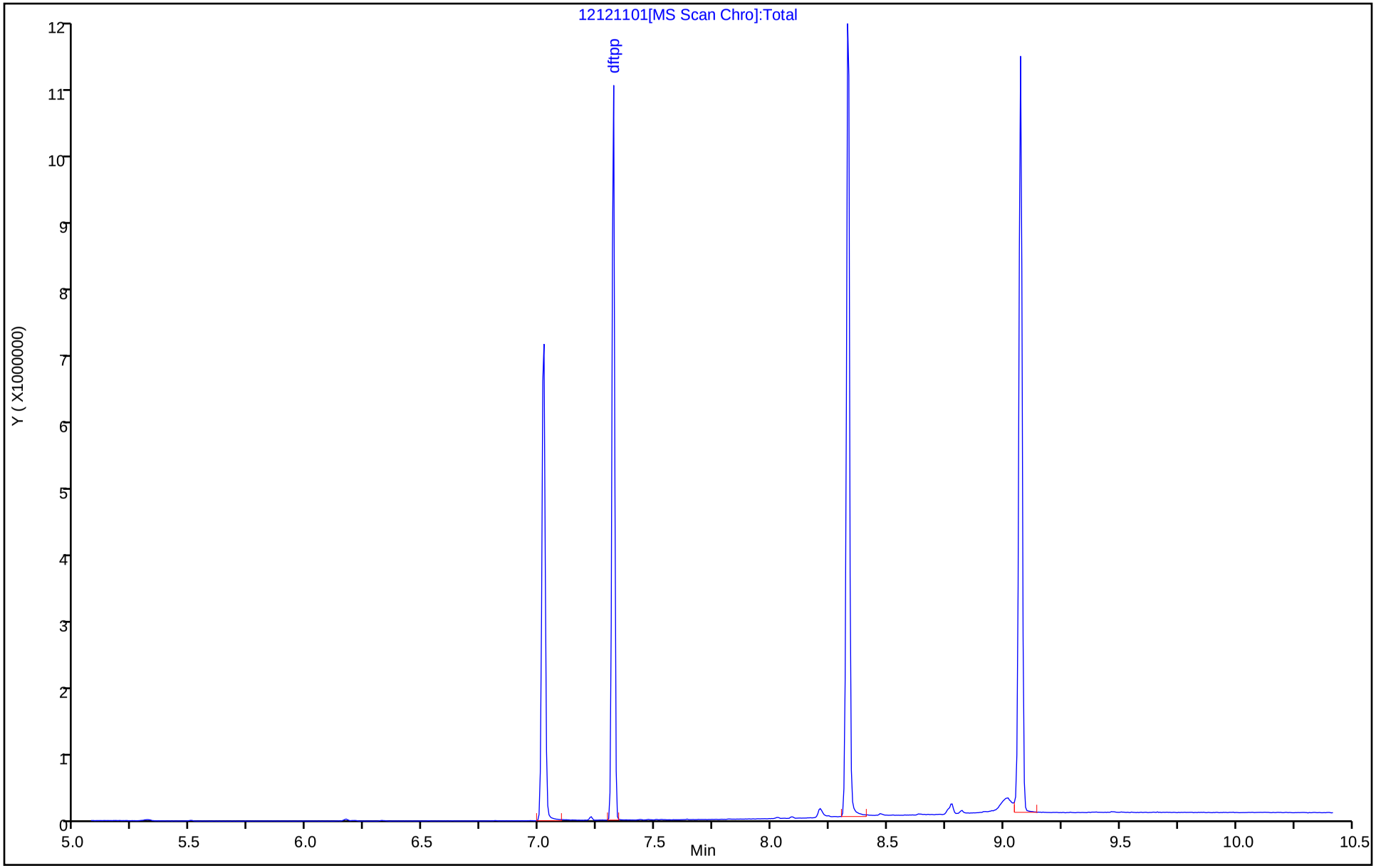
Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121101.D				
Injection Date:	11-Dec-2015 08:13:30	Inst. ID:	msd12.i	Operator:	JCG
Client ID:	DFTPPNF	Lab ID:	SVMS 1608		
Sample Info:	12121115.b, SVMS 1608				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 11-Dec-2015 16:07:57 AIM Revision: 1.0 26-May-2015 13:41:26

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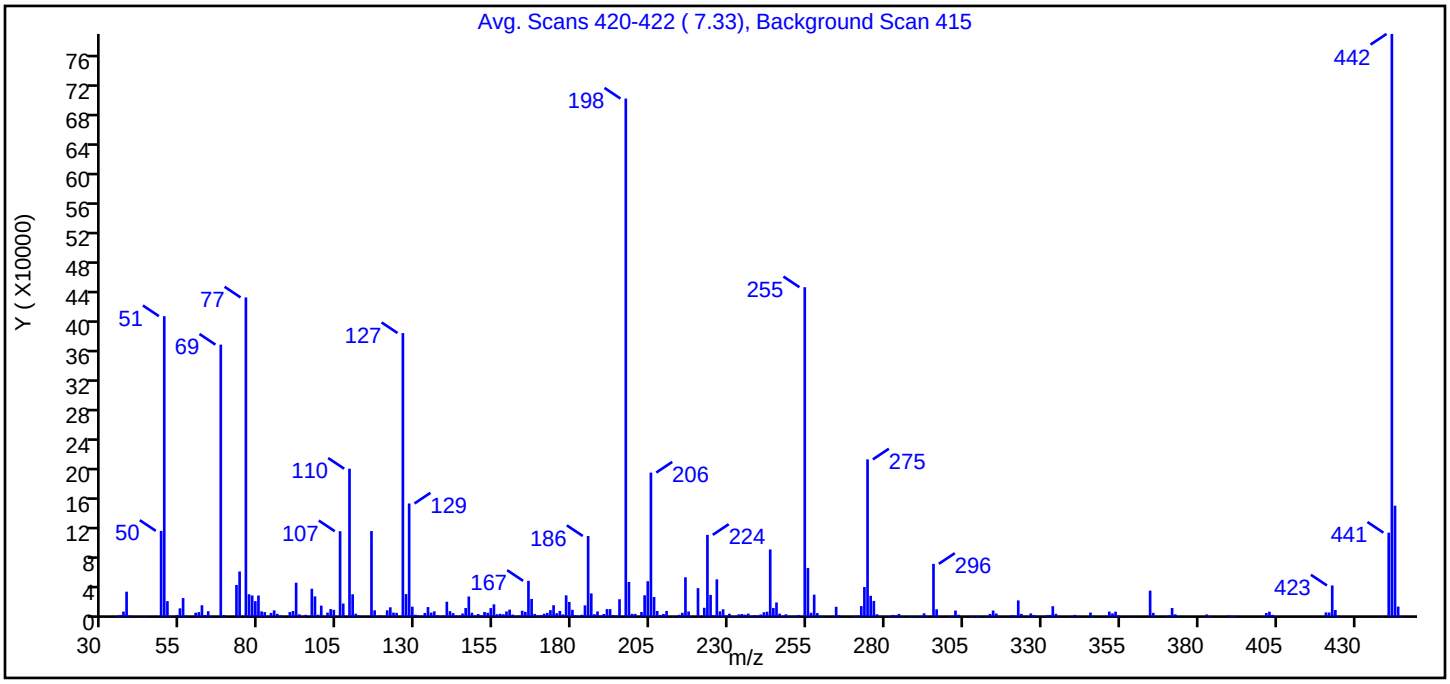
MS Tune Report

Data File:	\\Organics\HH\chem\msd12.i\12121115.b\12121101.D		
Injection Date:	11-Dec-2015 08:13:30	Inst. ID:	msd12.i
Client ID:	DFTPPNF	Lab ID:	SVMS 1608
Sample Info:	12121115.b, SVMS 1608		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
51	10.00 - 80.00% of mass 198	58.0
68	Less than 2.00% of mass 69	0.0 (0.0)
69	Present	52.5
70	Less than 2.00% of mass 69	0.3 (0.6)
127	10.00 - 80.00% of mass 198	54.7
197	Less than 2.00% of mass 198	0.0
199	5.00 - 9.00% of mass 198	6.7
275	10.00 - 60.00% of mass 198	30.3
365	Greater than 1.00% of mass 198	5.0
441	0.01 - 99.99% of mass 443	16.2 (75.7)
442	Greater than 50.00% of mass 198	112.5
443	15.00 - 24.00% of mass 442	21.4 (19.0)

Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121101.D
Injection Date: 11-Dec-2015 08:13:30
Spectrum: Avg. Scans 420-422 (7.33), Background Scan 415
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	205	132.00	1423	223.00	11945	313.00	688
36.00	1134	133.00	732	224.00	110584	314.00	3653
37.00	2246	134.00	4924	225.00	29344	315.00	8228
38.00	6811	135.00	12928	226.00	1730	316.00	4176
39.00	33688	136.00	5409	227.00	50400	317.00	869
40.00	1529	137.00	7098	228.00	7127	319.00	115
41.00	659	138.00	1593	229.00	9961	320.00	269
42.00	231	139.00	955	230.00	1479	321.00	2048
43.00	326	140.00	1329	231.00	3906	322.00	1241
44.00	397	141.00	20128	232.00	823	323.00	21920
45.00	566	142.00	7365	233.00	850	324.00	3659
47.00	166	143.00	4733	234.00	3085	325.00	457
48.00	101	144.00	1214	235.00	3514	326.00	489
50.00	115976	145.00	1092	236.00	2629	327.00	4304
51.00	406400	146.00	4127	237.00	4035	328.00	2086
52.00	20880	147.00	11623	238.00	616	329.00	430
53.00	971	148.00	27168	239.00	1923	330.00	87
55.00	2244	149.00	5200	240.00	1474	332.00	1850
56.00	11210	150.00	1452	241.00	2861	333.00	2253
57.00	25048	151.00	3535	242.00	5917	334.00	14029
58.00	1188	152.00	1614	243.00	6604	335.00	3767
59.00	222	153.00	6240	244.00	90864	336.00	602
60.00	79	154.00	5126	245.00	11688	339.00	390
61.00	5192	155.00	11500	246.00	19136	340.00	361
62.00	6036	156.00	16592	247.00	4017	341.00	2360
63.00	15356	157.00	3227	248.00	955	342.00	732
64.00	2192	158.00	3847	249.00	3136	343.00	60
65.00	7273	159.00	3180	250.00	626	346.00	5457
66.00	678	160.00	6948	251.00	926	347.00	963
67.00	205	161.00	9433	252.00	894	348.00	71
69.00	367872	162.00	2740	253.00	2158	350.00	212
70.00	2137	163.00	650	255.00	445568	351.00	470
71.00	271	164.00	1246	256.00	65824	352.00	6772

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Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121101.D
Injection Date: 11-Dec-2015 08:13:30
Spectrum: Avg. Scans 420-422 (7.33), Background Scan 415
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	59	165.00	8006	257.00	5190	353.00	4377
73.00	103	166.00	6478	258.00	29664	354.00	6716
74.00	42832	167.00	48376	259.00	4786	355.00	1414
75.00	61032	168.00	23880	260.00	897	356.00	193
77.00	431744	169.00	3623	261.00	692	358.00	165
78.00	30232	170.00	1495	262.00	70	359.00	551
79.00	28592	171.00	2033	263.00	309	360.00	59
80.00	20904	172.00	3933	264.00	518	361.00	58
81.00	28520	173.00	5002	265.00	13294	363.00	63
82.00	7063	174.00	8713	266.00	1829	365.00	35120
83.00	6095	175.00	15405	267.00	237	366.00	5096
84.00	830	176.00	4547	268.00	175	367.00	285
85.00	4994	177.00	7638	269.00	139	370.00	642
86.00	8441	178.00	2976	270.00	565	371.00	1687
87.00	3722	179.00	28768	271.00	935	372.00	11653
88.00	1586	180.00	19832	272.00	1391	373.00	3088
89.00	548	181.00	9159	273.00	14196	374.00	363
90.00	165	182.00	1533	274.00	40032	377.00	307
91.00	6163	183.00	752	275.00	212672	383.00	2930
92.00	7604	184.00	2465	276.00	28168	384.00	862
93.00	45824	185.00	15229	277.00	21200	385.00	272
94.00	3082	186.00	109016	278.00	3197	389.00	58
95.00	625	187.00	31360	279.00	788	390.00	1510
96.00	2364	188.00	3245	280.00	210	391.00	1099
98.00	37704	189.00	6944	281.00	355	392.00	835
99.00	27328	190.00	1448	282.00	580	393.00	66
100.00	2512	191.00	3541	283.00	2251	395.00	63
101.00	14870	192.00	10148	284.00	1637	397.00	54
102.00	581	193.00	10143	285.00	3620	401.00	705
103.00	5358	194.00	2155	286.00	670	402.00	4840
104.00	10134	195.00	1209	287.00	63	403.00	6640
105.00	9129	196.00	23504	288.00	249	404.00	2395
107.00	115504	198.00	700736	289.00	854	405.00	453
108.00	17680	199.00	46856	290.00	686	408.00	68

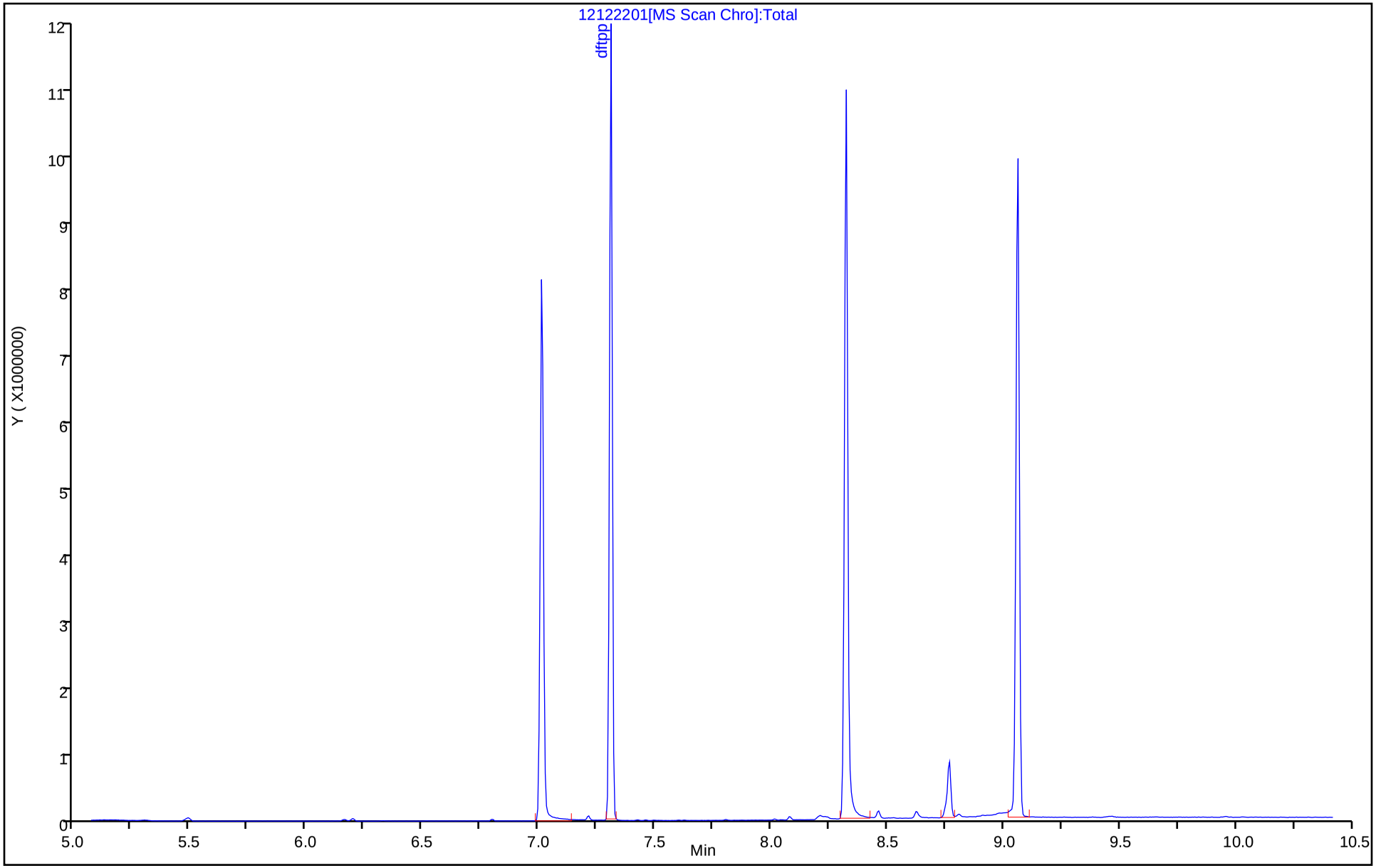
Report Date: 11-Dec-2015 16:07:57 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12121115.b\12121101.D
Injection Date: 11-Dec-2015 08:13:30
Spectrum: Avg. Scans 420-422 (7.33), Background Scan 415
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	200064	200.00	3779	291.00	559	409.00	51
111.00	30176	201.00	3696	292.00	848	410.00	106
112.00	3932	203.00	6212	293.00	4487	415.00	226
113.00	1444	204.00	28864	294.00	985	420.00	58
114.00	214	205.00	47840	296.00	71336	421.00	5619
115.00	148	206.00	194816	297.00	9936	422.00	5576
117.00	115712	207.00	26496	298.00	780	423.00	42152
118.00	8466	208.00	7544	299.00	105	424.00	8934
119.00	960	209.00	2207	301.00	749	425.00	941
120.00	1492	210.00	3593	302.00	1136	434.00	59
121.00	473	211.00	7666	303.00	8183	436.00	133
122.00	8538	212.00	296	304.00	2475	437.00	168
123.00	12583	213.00	681	305.00	251	438.00	289
124.00	5399	214.00	248	306.00	57	439.00	663
125.00	5009	215.00	2423	307.00	110	441.00	113536
127.00	383552	216.00	5168	308.00	908	442.00	788160
128.00	30472	217.00	53184	309.00	670	443.00	150016
129.00	153024	218.00	6988	310.00	900	444.00	13551
130.00	13434	219.00	760	311.00	257	445.00	860
131.00	2467	221.00	38512	312.00	328		

Report Date: 23-Dec-2015 09:57:52 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122201.D				
Injection Date:	22-Dec-2015 08:25:30	Inst. ID:	msd12.i	Operator:	JCG
Client ID:	DFTPPOU	Lab ID:	SVMS 1608		
Sample Info:	12122215.b, SVMS 1608				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



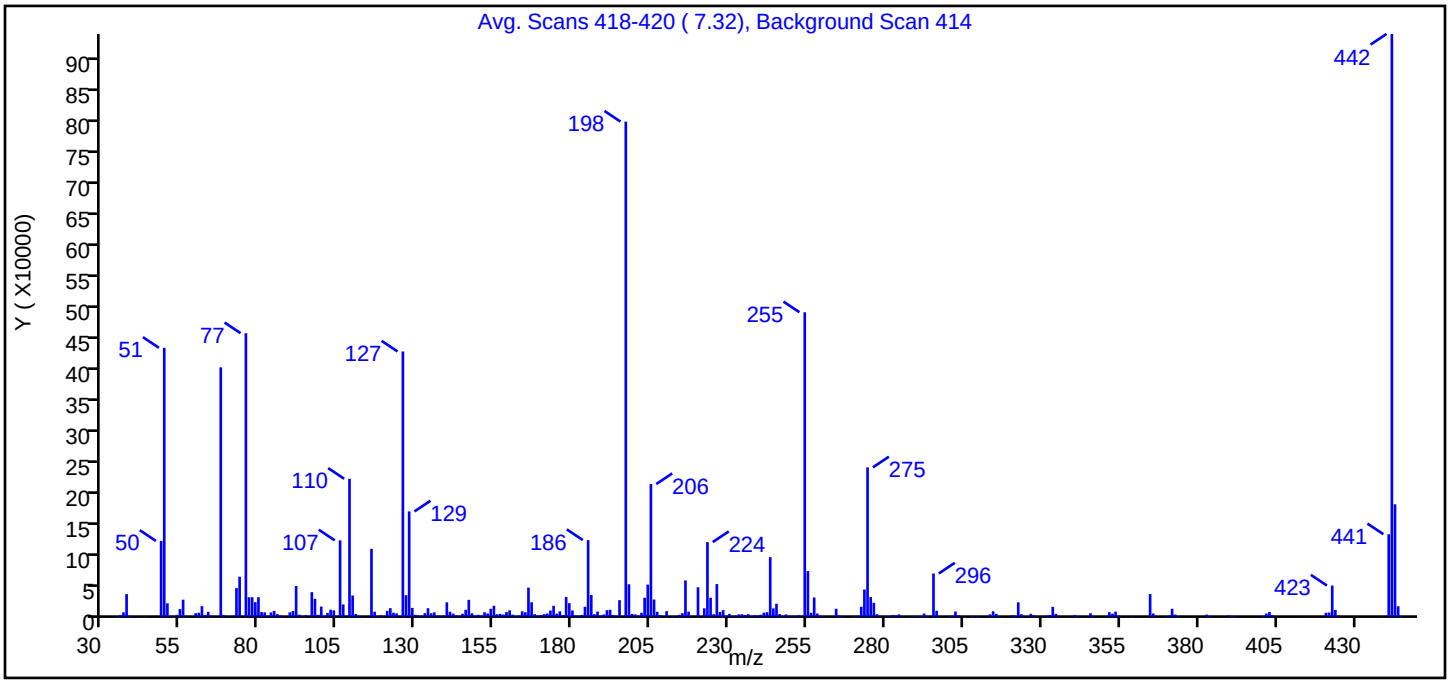
Report Date: 23-Dec-2015 09:57:52 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\HH\chem\msd12.i\12122215.b\12122201.D		
Injection Date:	22-Dec-2015 08:25:30	Inst. ID:	msd12.i
Client ID:	DFTPPOU	Lab ID:	SVMS 1608
Sample Info:	12122215.b, SVMS 1608		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
51	10.00 - 80.00% of mass 198	54.3
68	Less than 2.00% of mass 69	0.0 (0.0)
69	Present	50.4
70	Less than 2.00% of mass 69	0.3 (0.5)
127	10.00 - 80.00% of mass 198	53.6
197	Less than 2.00% of mass 198	0.0
199	5.00 - 9.00% of mass 198	6.5
275	10.00 - 60.00% of mass 198	30.1
365	Greater than 1.00% of mass 198	4.6
441	0.01 - 99.99% of mass 443	16.6 (73.3)
442	Greater than 50.00% of mass 198	117.7
443	15.00 - 24.00% of mass 442	22.7 (19.3)

Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122201.D
Injection Date: 22-Dec-2015 08:25:30
Spectrum: Avg. Scans 418-420 (7.32), Background Scan 414
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	94	133.00	830	225.00	30160	314.00	3595
36.00	325	134.00	5469	226.00	3795	315.00	8547
37.00	2365	135.00	13492	227.00	52312	316.00	4297
38.00	6983	136.00	5368	228.00	7398	317.00	888
39.00	36144	137.00	6810	229.00	10434	319.00	59
40.00	1579	138.00	1260	230.00	1440	320.00	375
41.00	794	139.00	887	231.00	4322	321.00	2177
42.00	291	140.00	1416	232.00	782	322.00	1446
43.00	66	141.00	22904	233.00	1147	323.00	22992
44.00	232	142.00	7841	234.00	3563	324.00	3853
45.00	649	143.00	4843	235.00	3794	325.00	554
46.00	66	144.00	1493	236.00	2550	326.00	468
47.00	223	145.00	1286	237.00	3928	327.00	4512
50.00	121696	146.00	4552	238.00	686	328.00	2166
51.00	431936	147.00	10972	239.00	2306	329.00	485
52.00	21336	148.00	26912	240.00	1817	330.00	60
53.00	977	149.00	5373	241.00	2928	331.00	104
55.00	2806	150.00	1530	242.00	6370	332.00	1716
56.00	12117	151.00	2859	243.00	7128	333.00	2671
57.00	27152	152.00	1278	244.00	95512	334.00	15710
58.00	1240	153.00	6953	245.00	13168	335.00	4367
59.00	209	154.00	4993	246.00	20608	336.00	636
60.00	117	155.00	12591	247.00	4176	339.00	403
61.00	5449	156.00	17528	248.00	984	340.00	272
62.00	6109	157.00	3790	249.00	3494	341.00	2702
63.00	16784	158.00	4388	250.00	638	342.00	771
64.00	2739	159.00	3335	251.00	967	343.00	115
65.00	7680	160.00	7280	252.00	846	344.00	55
66.00	646	161.00	10080	253.00	2087	345.00	50
67.00	176	162.00	3091	255.00	489088	346.00	5344
69.00	400576	163.00	922	256.00	73160	347.00	1075
70.00	2163	164.00	1445	257.00	6081	348.00	120
71.00	252	165.00	8432	258.00	30736	350.00	218

Report Date: 23-Dec-2015 09:57:52 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122201.D
Injection Date: 22-Dec-2015 08:25:30
Spectrum: Avg. Scans 418-420 (7.32), Background Scan 414
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	290	166.00	7034	259.00	4949	351.00	433
73.00	539	167.00	46568	260.00	723	352.00	7019
74.00	45800	168.00	23056	261.00	763	353.00	4631
75.00	64032	169.00	3938	262.00	151	354.00	7983
77.00	455424	170.00	1556	263.00	176	355.00	1631
78.00	31112	171.00	2193	264.00	334	356.00	147
79.00	31176	172.00	3925	265.00	12596	357.00	113
80.00	23200	173.00	5051	266.00	1839	358.00	125
81.00	31208	174.00	9663	267.00	431	359.00	525
82.00	7297	175.00	17336	268.00	63	361.00	277
83.00	6732	176.00	4751	269.00	199	365.00	36240
84.00	904	177.00	8452	270.00	512	366.00	5060
85.00	6711	178.00	2295	271.00	1031	367.00	324
86.00	9113	179.00	31528	272.00	1478	370.00	690
87.00	4133	180.00	21536	273.00	15754	371.00	1786
88.00	1758	181.00	9788	274.00	43512	372.00	12626
89.00	432	182.00	1523	275.00	239808	373.00	3327
91.00	6881	183.00	984	276.00	31456	374.00	383
92.00	9143	184.00	2707	277.00	22240	377.00	304
93.00	49136	185.00	15704	278.00	3916	378.00	60
94.00	3092	186.00	123000	279.00	807	383.00	3210
95.00	622	187.00	34592	280.00	161	384.00	1049
96.00	2450	188.00	3804	281.00	468	385.00	353
98.00	39328	189.00	8033	282.00	747	389.00	67
99.00	28528	190.00	1381	283.00	2446	390.00	1714
100.00	2860	191.00	3443	284.00	1779	391.00	1167
101.00	16110	192.00	10357	285.00	3533	392.00	813
102.00	1164	193.00	11026	286.00	677	393.00	136
103.00	5988	194.00	2418	287.00	62	395.00	92
104.00	11087	195.00	561	288.00	225	397.00	85
105.00	10034	196.00	26432	289.00	851	401.00	779
107.00	122504	198.00	795456	290.00	735	402.00	4908
108.00	19496	199.00	51936	291.00	487	403.00	7447
110.00	221504	200.00	4263	292.00	1039	404.00	2467

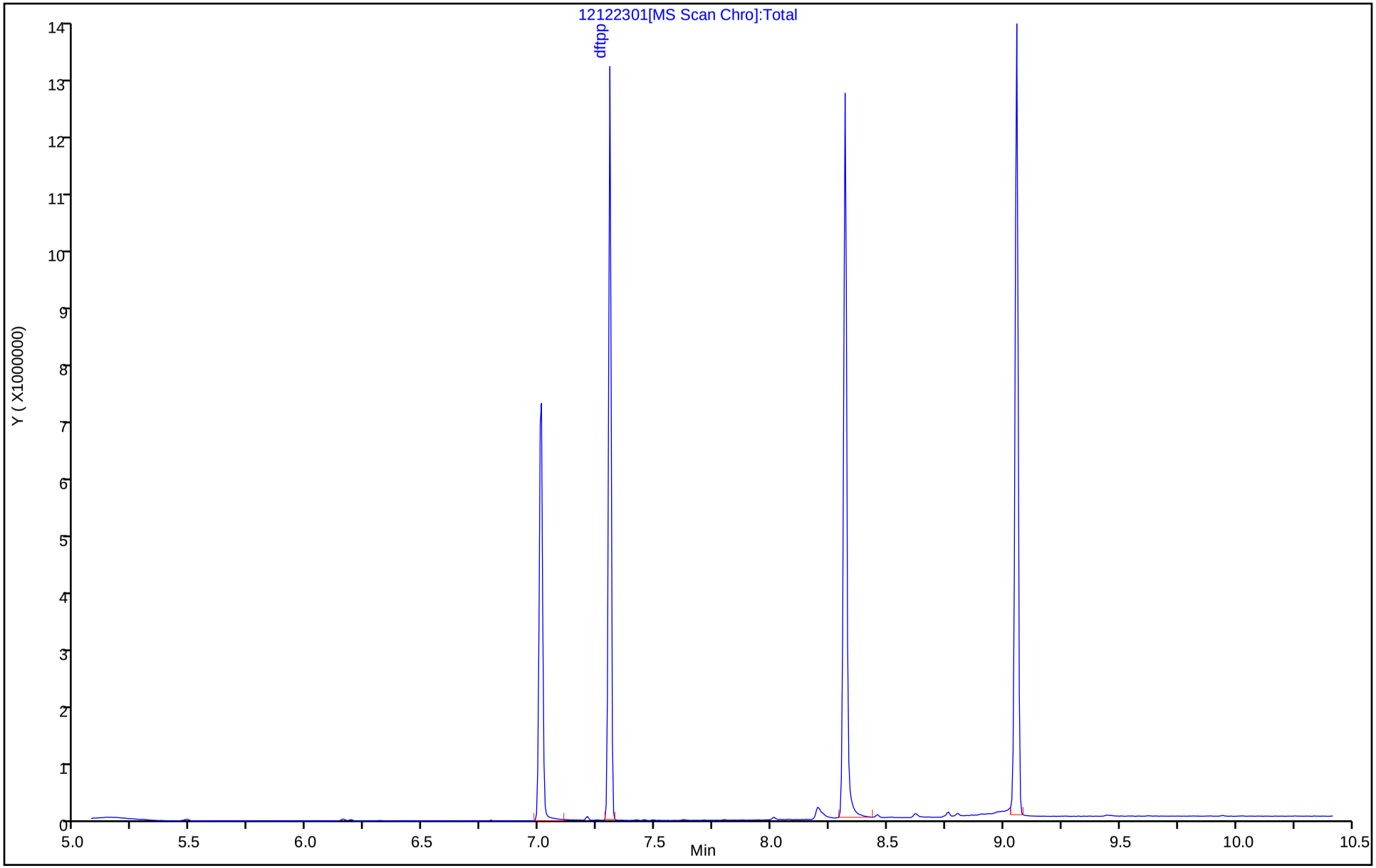
Report Date: 23-Dec-2015 09:57:52 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122215.b\12122201.D
Injection Date: 22-Dec-2015 08:25:30
Spectrum: Avg. Scans 418-420 (7.32), Background Scan 414
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 347

m/z	Y	m/z	Y	m/z	Y	m/z	Y
111.00	33848	201.00	3543	293.00	4889	405.00	437
112.00	4180	202.00	1229	294.00	1054	410.00	275
113.00	1283	203.00	6141	296.00	69296	415.00	439
114.00	499	204.00	30288	297.00	9343	420.00	54
115.00	188	205.00	51440	298.00	708	421.00	6151
117.00	108872	206.00	212992	299.00	218	422.00	6499
118.00	7846	207.00	27456	300.00	56	423.00	49920
119.00	787	208.00	7693	301.00	958	424.00	10715
120.00	1758	209.00	2512	302.00	1415	425.00	1268
121.00	455	211.00	8825	303.00	8197	426.00	124
122.00	9232	213.00	738	304.00	2150	432.00	50
123.00	13551	214.00	255	305.00	299	437.00	146
124.00	6188	215.00	2791	306.00	60	438.00	301
125.00	5193	216.00	5449	307.00	61	439.00	494
127.00	426048	217.00	58112	308.00	993	441.00	132352
128.00	34416	218.00	7924	309.00	747	442.00	936320
129.00	169024	219.00	550	310.00	823	443.00	180480
130.00	13929	221.00	47184	311.00	294	444.00	16576
131.00	2808	223.00	13283	312.00	272	445.00	941
132.00	1728	224.00	119744	313.00	608		

Report Date: 23-Dec-2015 16:08:24 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122301.D				
Injection Date:	23-Dec-2015 08:33:30	Inst. ID:	msd12.i	Operator:	JCG
Client ID:	DFTPPOY	Lab ID:	SVMS 1608		
Sample Info:	12122315.b, SVMS 1608				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



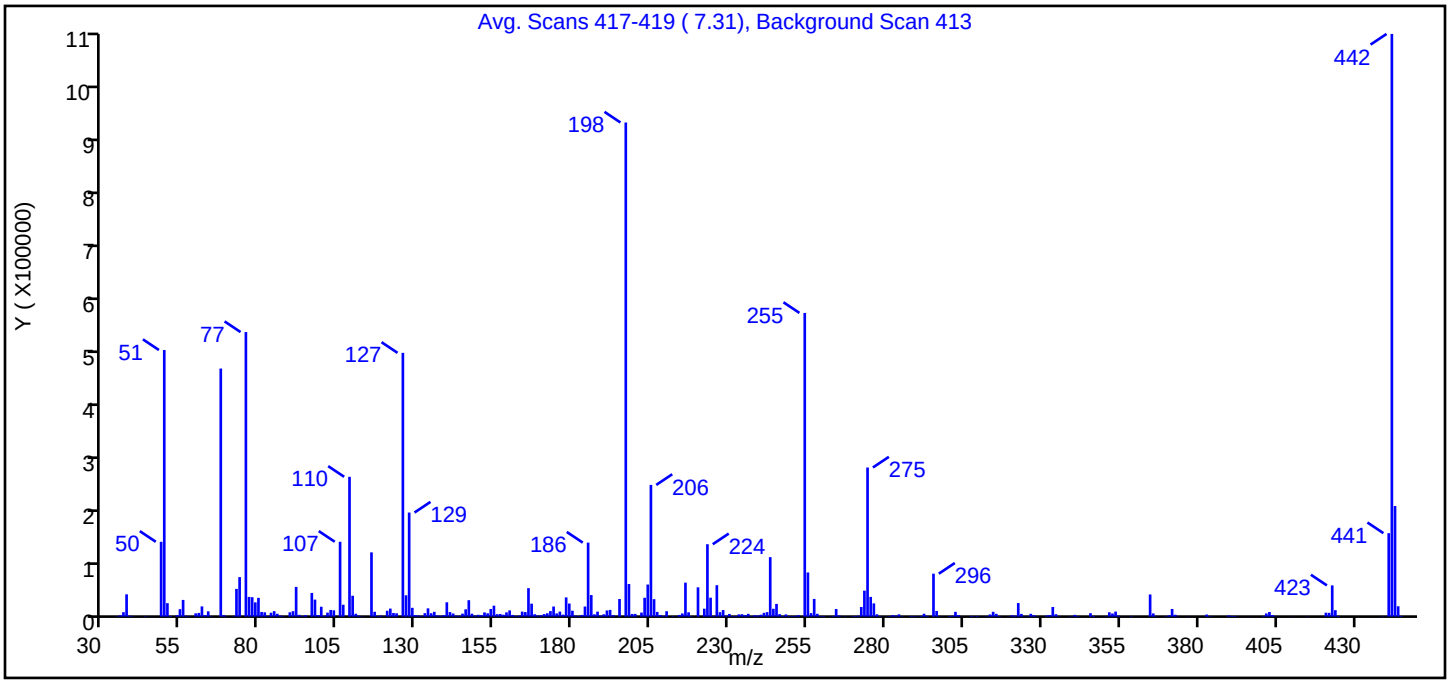
Report Date: 23-Dec-2015 16:08:24 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122301.D		
Injection Date:	23-Dec-2015 08:33:30	Inst. ID:	msd12.i
Client ID:	DFTPPOY	Lab ID:	SVMS 1608
Sample Info:	12122315.b, SVMS 1608		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
51	10.00 - 80.00% of mass 198	54.0
68	Less than 2.00% of mass 69	0.0 (0.0)
69	Present	50.2
70	Less than 2.00% of mass 69	0.3 (0.6)
127	10.00 - 80.00% of mass 198	53.4
197	Less than 2.00% of mass 198	0.0
199	5.00 - 9.00% of mass 198	6.6
275	10.00 - 60.00% of mass 198	30.2
365	Greater than 1.00% of mass 198	4.5
441	0.01 - 99.99% of mass 443	16.9 (75.4)
442	Greater than 50.00% of mass 198	117.9
443	15.00 - 24.00% of mass 442	22.4 (19.0)

Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122301.D
Injection Date: 23-Dec-2015 08:33:30
Spectrum: Avg. Scans 417-419 (7.31), Background Scan 413
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 346

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	71	136.00	6107	229.00	11846	319.00	77
36.00	573	137.00	8628	230.00	1674	320.00	360
37.00	2323	138.00	1993	231.00	4804	321.00	2300
38.00	8010	139.00	1449	232.00	909	322.00	1619
39.00	40336	140.00	2719	233.00	1126	323.00	24528
40.00	1761	141.00	25936	234.00	4009	324.00	4932
41.00	731	142.00	8212	235.00	4331	325.00	467
42.00	81	143.00	5617	236.00	2842	326.00	635
44.00	147	144.00	1526	237.00	4981	327.00	5030
45.00	645	145.00	1276	238.00	666	328.00	2441
46.00	166	146.00	5381	239.00	2386	329.00	484
47.00	269	147.00	13175	240.00	1918	330.00	87
50.00	135424	148.00	29696	241.00	3383	332.00	1984
51.00	482560	149.00	5244	242.00	6830	333.00	2852
52.00	24344	150.00	1727	243.00	8087	334.00	17408
53.00	1094	151.00	3274	244.00	107632	335.00	4344
55.00	2377	152.00	2468	245.00	14166	336.00	577
56.00	13424	153.00	7555	246.00	23024	339.00	337
57.00	30192	154.00	5990	247.00	4475	340.00	511
58.00	1487	155.00	13802	248.00	1069	341.00	3139
59.00	646	156.00	19736	249.00	3986	342.00	1001
61.00	5813	157.00	4433	250.00	919	343.00	55
62.00	6680	158.00	4757	251.00	1058	345.00	64
63.00	18464	159.00	3418	252.00	1344	346.00	6166
64.00	2782	160.00	7696	253.00	2417	347.00	1113
65.00	9530	161.00	11242	255.00	549696	348.00	129
66.00	522	162.00	3045	256.00	79896	350.00	194
69.00	449024	163.00	1100	257.00	6271	351.00	532
70.00	2597	164.00	1681	258.00	31992	352.00	7811
71.00	280	165.00	9036	259.00	5095	353.00	5648
72.00	136	166.00	8132	260.00	920	354.00	9075
73.00	513	167.00	51464	261.00	1140	355.00	1798
74.00	50152	168.00	23440	262.00	126	356.00	182

Report Date: 23-Dec-2015 16:08:24 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122301.D
Injection Date: 23-Dec-2015 08:33:30
Spectrum: Avg. Scans 417-419 (7.31), Background Scan 413
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 346

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	71496	169.00	4264	263.00	384	357.00	137
77.00	515072	170.00	1964	264.00	1012	358.00	144
78.00	35576	171.00	2308	265.00	13769	359.00	771
79.00	35144	172.00	4584	266.00	2035	360.00	90
80.00	25760	173.00	6023	267.00	258	361.00	136
81.00	33960	174.00	9982	268.00	446	365.00	40056
82.00	8444	175.00	18280	269.00	214	366.00	5728
83.00	7750	176.00	5800	270.00	673	367.00	638
84.00	1002	177.00	9003	271.00	1072	370.00	730
85.00	6950	178.00	3522	272.00	1589	371.00	2153
86.00	9879	179.00	34752	273.00	17360	372.00	13813
87.00	5128	180.00	23656	274.00	46976	373.00	3390
88.00	1813	181.00	10624	275.00	269888	374.00	423
89.00	767	182.00	1780	276.00	35664	377.00	358
91.00	7772	183.00	1111	277.00	23936	378.00	119
92.00	9825	184.00	3021	278.00	4161	382.00	153
93.00	53728	185.00	18232	279.00	842	383.00	3739
94.00	3164	186.00	133888	280.00	117	384.00	854
95.00	951	187.00	38968	281.00	325	385.00	313
96.00	2617	188.00	4128	282.00	884	389.00	113
98.00	42808	189.00	8993	283.00	2581	390.00	2016
99.00	30744	190.00	1623	284.00	1787	391.00	1248
100.00	2815	191.00	4183	285.00	4076	392.00	1051
101.00	17864	192.00	11087	286.00	637	393.00	167
102.00	1140	193.00	12103	287.00	50	395.00	105
103.00	7220	194.00	2652	288.00	313	396.00	71
104.00	12009	196.00	31872	289.00	1024	397.00	219
105.00	11414	198.00	894400	290.00	833	401.00	853
107.00	135488	199.00	58952	291.00	486	402.00	5716
108.00	21456	200.00	4801	292.00	1155	403.00	8298
110.00	253056	201.00	4885	293.00	5211	404.00	2792
111.00	37792	203.00	7312	294.00	1294	405.00	469
112.00	5144	204.00	34120	296.00	77696	406.00	56
113.00	1758	205.00	58048	297.00	10251	409.00	58

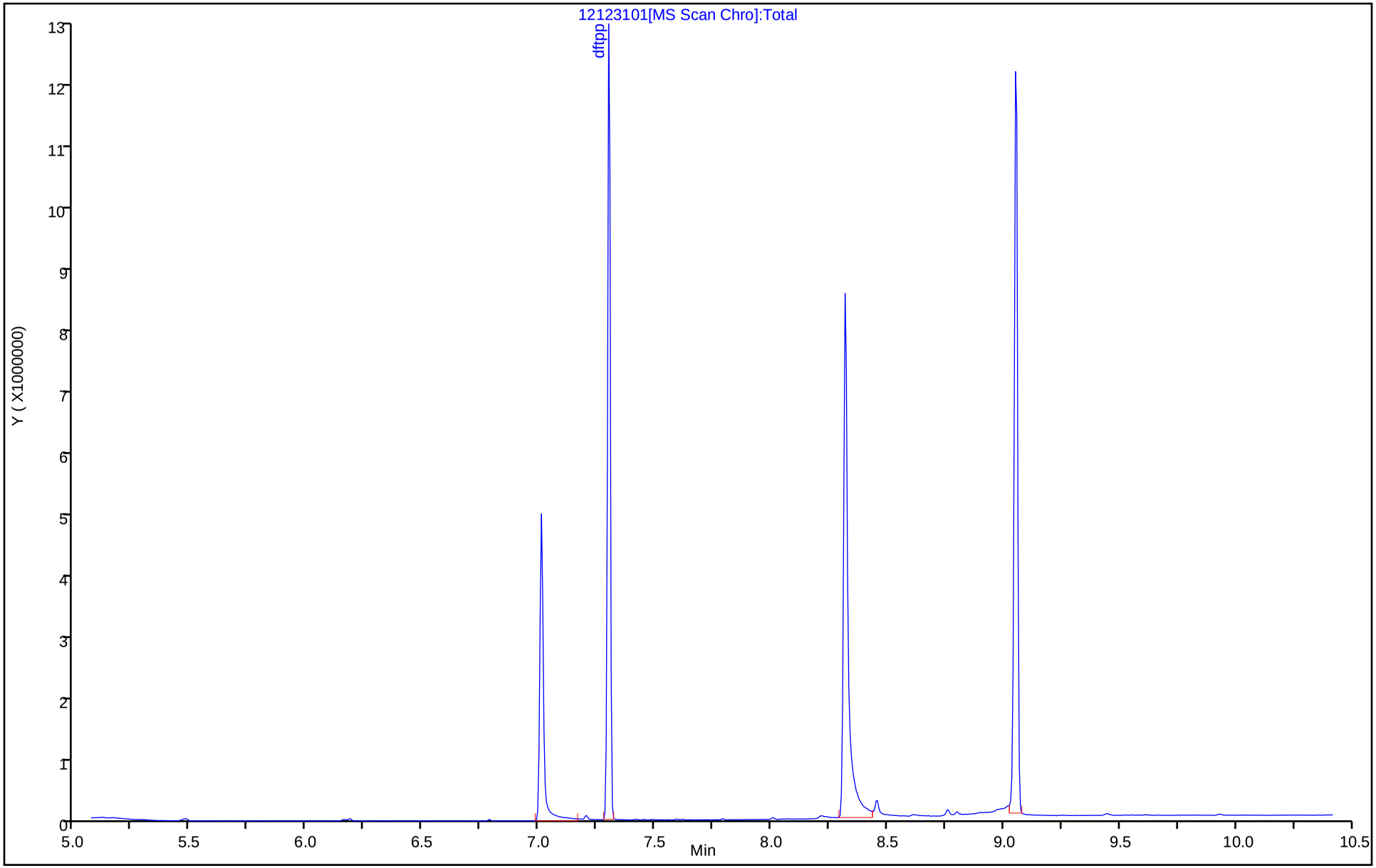
Report Date: 23-Dec-2015 16:08:24 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12122315.b\12122301.D
Injection Date: 23-Dec-2015 08:33:30
Spectrum: Avg. Scans 417-419 (7.31), Background Scan 413
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 346

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	518	206.00	238400	298.00	610	410.00	203
115.00	230	207.00	31544	299.00	233	411.00	67
117.00	116264	208.00	8449	300.00	58	415.00	388
118.00	8726	209.00	2940	301.00	1056	420.00	198
119.00	1162	210.00	1208	302.00	1474	421.00	7055
120.00	1868	211.00	9733	303.00	8657	422.00	6828
121.00	367	213.00	767	304.00	2667	423.00	56472
122.00	10574	214.00	394	305.00	326	424.00	11617
123.00	14484	215.00	3024	307.00	138	425.00	1129
124.00	6554	216.00	5683	308.00	1067	437.00	64
125.00	6006	217.00	61448	309.00	698	438.00	127
127.00	477440	218.00	7785	310.00	983	439.00	573
128.00	38568	219.00	807	311.00	248	440.00	224
129.00	188352	221.00	52992	312.00	280	441.00	151040
130.00	15916	223.00	14306	313.00	734	442.00	1054720
131.00	2884	224.00	130992	314.00	3869	443.00	200192
132.00	1982	225.00	34208	315.00	8718	444.00	18704
133.00	790	226.00	1038	316.00	5064	445.00	1218
134.00	6213	227.00	56864	317.00	974		
135.00	14937	228.00	8011	318.00	63		

Report Date: 04-Jan-2016 10:27:24 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123101.D				
Injection Date:	31-Dec-2015 08:26:30	Inst. ID:	msd12.i	Operator:	JCG
Client ID:	DFTPPPC	Lab ID:	SVMS 1608		
Sample Info:	12123115.b, SVMS 1608				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



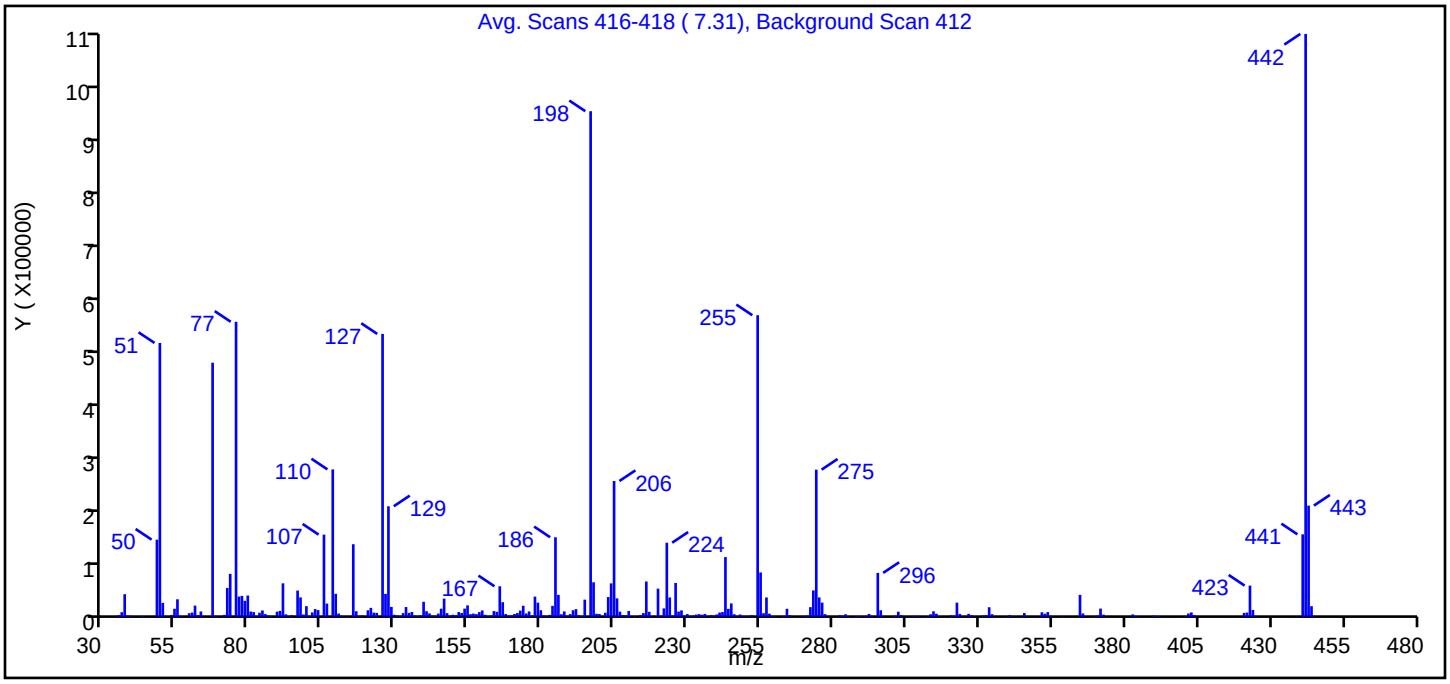
Report Date: 04-Jan-2016 10:27:24 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123101.D		
Injection Date:	31-Dec-2015 08:26:30	Inst. ID:	msd12.i
Client ID:	DFTPPPC	Lab ID:	SVMS 1608
Sample Info:	12123115.b, SVMS 1608		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
51	10.00 - 80.00% of mass 198	54.1
68	Less than 2.00% of mass 69	0.0 (0.0)
69	Present	50.2
70	Less than 2.00% of mass 69	0.2 (0.3)
127	10.00 - 80.00% of mass 198	55.9
197	Less than 2.00% of mass 198	0.0
199	5.00 - 9.00% of mass 198	6.8
275	10.00 - 60.00% of mass 198	29.1
365	Greater than 1.00% of mass 198	4.3
441	0.01 - 99.99% of mass 443	16.3 (74.1)
442	Greater than 50.00% of mass 198	115.3
443	15.00 - 24.00% of mass 442	22.0 (19.0)

Report Date: 04-Jan-2016 10:27:24 AIM Revision: 1.0 26-May-2015 13:41:26

Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123101.D
Injection Date: 31-Dec-2015 08:26:30
Spectrum: Avg. Scans 416-418 (7.31), Background Scan 412
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 357

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	745	137.00	8478	231.00	4629	324.00	4926
37.00	2642	138.00	1919	232.00	1013	325.00	549
38.00	8075	139.00	1298	233.00	1520	326.00	547
39.00	41128	140.00	2088	234.00	3675	327.00	5053
40.00	1965	141.00	27200	235.00	4472	328.00	2488
41.00	1339	142.00	9900	236.00	3400	329.00	511
42.00	269	143.00	5818	237.00	4772	330.00	58
43.00	336	144.00	1631	238.00	758	331.00	68
44.00	373	145.00	1462	239.00	2690	332.00	2075
45.00	1052	146.00	5553	240.00	1978	333.00	2611
46.00	59	147.00	14514	241.00	3870	334.00	17168
47.00	92	148.00	32952	242.00	7440	335.00	4412
48.00	400	149.00	6387	243.00	8315	336.00	411
50.00	141184	150.00	1970	244.00	109160	337.00	57
51.00	502080	151.00	3411	245.00	14192	339.00	433
52.00	25184	152.00	2615	246.00	24216	340.00	499
53.00	1226	153.00	8366	247.00	4346	341.00	2858
55.00	3029	154.00	6564	248.00	1033	342.00	763
56.00	14363	155.00	14667	249.00	3861	343.00	337
57.00	31784	156.00	20584	250.00	890	344.00	108
58.00	1373	157.00	4492	251.00	1014	345.00	138
59.00	472	158.00	5645	252.00	1146	346.00	6534
60.00	96	159.00	4463	253.00	2754	347.00	1131
61.00	6183	160.00	8284	255.00	552960	348.00	147
62.00	7400	161.00	11298	256.00	80944	350.00	200
63.00	20152	162.00	3405	257.00	6290	351.00	300
64.00	2822	163.00	1123	258.00	35136	352.00	8003
65.00	9367	164.00	1539	259.00	5397	353.00	5267
66.00	411	165.00	10136	260.00	1036	354.00	8338
69.00	465792	166.00	8828	261.00	914	355.00	1668
70.00	1561	167.00	55632	262.00	268	356.00	204
71.00	364	168.00	26424	263.00	466	357.00	160
72.00	269	169.00	4753	264.00	1399	358.00	213

Report Date: 04-Jan-2016 10:27:24 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123101.D
Injection Date: 31-Dec-2015 08:26:30
Spectrum: Avg. Scans 416-418 (7.31), Background Scan 412
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 357

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	3120	170.00	2119	265.00	14341	359.00	644
74.00	52544	171.00	2307	266.00	2684	361.00	187
75.00	78376	172.00	4764	267.00	342	363.00	93
77.00	540928	173.00	6461	268.00	562	365.00	39952
78.00	36736	174.00	11021	269.00	238	366.00	5787
79.00	37984	175.00	19832	270.00	754	367.00	378
80.00	29008	176.00	5788	271.00	1237	369.00	60
81.00	38656	177.00	9429	272.00	1903	370.00	757
82.00	9274	178.00	2230	273.00	17392	371.00	1846
83.00	8252	179.00	36664	274.00	48016	372.00	14722
84.00	1056	180.00	25600	275.00	269632	373.00	3645
85.00	7133	181.00	11681	276.00	35192	374.00	484
86.00	11301	182.00	1954	277.00	25664	377.00	336
87.00	4593	183.00	946	278.00	4523	379.00	56
88.00	1835	184.00	3106	279.00	798	382.00	56
89.00	1091	185.00	19744	280.00	113	383.00	4029
91.00	9071	186.00	145600	281.00	319	384.00	1093
92.00	10493	187.00	39968	282.00	666	385.00	325
93.00	61080	188.00	4341	283.00	2857	390.00	1779
94.00	4166	189.00	9497	284.00	1724	391.00	1157
95.00	971	190.00	1444	285.00	4303	392.00	1046
96.00	2789	191.00	4575	286.00	855	393.00	184
98.00	47784	192.00	11618	287.00	70	395.00	141
99.00	35192	193.00	13715	288.00	369	396.00	113
100.00	3823	194.00	2656	289.00	1026	397.00	173
101.00	19160	195.00	1105	290.00	1080	401.00	876
102.00	1149	196.00	31096	291.00	508	402.00	5641
103.00	7674	198.00	927296	292.00	1138	403.00	7634
104.00	13792	199.00	63016	293.00	4906	404.00	2944
105.00	11972	200.00	5242	294.00	1309	405.00	535
107.00	150400	201.00	4800	296.00	80128	406.00	57
108.00	23888	203.00	7102	297.00	11605	409.00	54
110.00	270080	204.00	35864	298.00	873	410.00	205
111.00	41832	205.00	60968	299.00	114	415.00	395

Report Date: 04-Jan-2016 10:27:24 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123101.D
Injection Date: 31-Dec-2015 08:26:30
Spectrum: Avg. Scans 416-418 (7.31), Background Scan 412
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 357

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	5611	206.00	248768	301.00	1104	416.00	134
113.00	1558	207.00	33408	302.00	1625	417.00	53
114.00	457	208.00	9058	303.00	8985	419.00	125
115.00	897	209.00	2885	304.00	2576	421.00	6812
117.00	132800	210.00	2511	305.00	455	422.00	7390
118.00	9879	211.00	10305	306.00	172	423.00	56864
119.00	1365	213.00	922	307.00	100	424.00	12215
120.00	2128	214.00	359	308.00	1269	425.00	1225
121.00	111	215.00	2936	309.00	792	426.00	78
122.00	11601	216.00	6433	310.00	908	429.00	73
123.00	16018	217.00	64384	311.00	193	430.00	51
124.00	7294	218.00	8772	312.00	388	437.00	129
125.00	6872	219.00	818	313.00	755	438.00	121
127.00	518656	221.00	51296	314.00	4243	439.00	455
128.00	41704	222.00	1407	315.00	9719	441.00	150976
129.00	202432	223.00	15074	316.00	5264	442.00	1069056
130.00	17744	224.00	135552	317.00	894	443.00	203648
131.00	3354	225.00	35120	318.00	69	444.00	19144
132.00	1857	226.00	1766	319.00	201	445.00	1060
133.00	1126	227.00	61704	320.00	216	475.00	68
134.00	6319	228.00	9239	321.00	2490		
135.00	17568	229.00	11427	322.00	1610		
136.00	6728	230.00	1816	323.00	25624		

Blank Data

Blanks are arranged by type of blank
(Method, Storage, Instrument)

Listed in Chronological Order by instrument.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK47

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QQ92747-001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 12122303

% Solids: _____ Date Received: _____

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	2.0	U
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	2.8	J
111-44-4	Bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	8.2	J
108-60-1	2,2'-Oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	4.2	J
621-64-7	N-Nitroso-di-n propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.3	
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclo-pentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK47

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QQ92747-001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 12122303

% Solids: _____ Date Received: _____

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	5.0	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
7005-72-3	4-Chlorophenyl-phenyl ether	5.0	U
86-73-7	Fluorene	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	10	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK47

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QQ92747-001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 12122303

% Solids: _____ Date Received: _____

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/23/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK47

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QQ92747-001
Sample wt/vol: 1000 (g/mL) mL
Lab File ID: 12122303
% Solids:
Date Received:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/23/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	4.27	2.0	J
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122303.D		
Lab Sample ID:	QQ92747-001	Client Sample ID:	SBLK47
Injection Date:	23-Dec-2015 09:20:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QQ92747-001		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	BLANK	ALS Bottle:	1
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 14:12:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.123	5.123	0.000	892454	29.735	29.735	
108 1,4-Dioxane	88.0		3.333		ND			
$ 109 1,4-Dioxane-d8	96.0	3.312	3.312	0.000	48431	4.4116	4.4116	
4 Phenol	94.0	5.133	5.133	0.000	91753	2.8136	2.8136	Qe
2 Benzaldehyde	77.0		5.144		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.192	5.192	0.000	604446	29.858	29.858	
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.293	5.299	-0.006	724314	36.476	36.476	
7 2-Chlorophenol	128.0		5.310		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.470	5.470	0.000	327675	20.000	20.000	
10 2-Methylphenol	108.0	5.609	5.614	-0.005	181781	8.2388	8.2388	e
11 2,2'-oxybis(1-Chloropropane)	45.0		5.646		ND			
$ 94 4-Methylphenol-d8	113.0	5.705	5.710	-0.005	709763	32.556	32.556	
14 4-Methylphenol	108.0	5.726	5.737	-0.011	100697	4.2067	4.2067	e
13 N-Nitroso-di-n-propylamine	70.0		5.764		ND			
12 Acetophenone	105.0		5.785		ND			
15 Hexachloroethane	117.0		5.892		ND			
$ 16 Nitrobenzene-d5	128.0	5.913	5.913	0.000	372595	31.621	31.621	
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0	6.164	6.170	-0.006	134976	5.2504	5.2504	
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	400274	29.664	29.664	
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.250		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.367	-0.005	578879	29.224	29.224	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.512	6.517	-0.005	1362945	20.000	20.000	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.538	6.544	-0.006	747583	25.036	25.036	
25 4-Chloroaniline	127.0		6.554		ND			
26 Hexachlorobutadiene	225.0		6.608		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.923		ND			
29 2-Methylnaphthalene	142.0		7.105		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.243		ND			
31 2,4,6-Trichlorophenol	196.0		7.324		ND			
32 2,4,5-Trichlorophenol	196.0		7.361		ND			
34 1,1'-Biphenyl	154.0		7.484		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.591		ND			
$ 98 Dimethylphthalate-d6	166.0	7.681	7.687	-0.006	1633782	34.743	34.743	
37 Dimethylphthalate	163.0		7.708		ND			
39 2,6-Dinitrotoluene	165.0		7.778		ND			
$ 99 Acenaphthylene-d8	160.0	7.868	7.874	-0.006	2106686	33.858	33.858	
38 Acenaphthylene	152.0		7.885		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.991	7.997	-0.006	719940	20.000	20.000	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.029		ND			
$ 100 4-Nitrophenol-d4	143.0	8.023	8.039	-0.016	305467	26.569	26.569	Q
44 4-Nitrophenol	109.0		8.045		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.168		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.259		ND			
47 Diethylphthalate	149.0		8.291		ND			
49 4-Chlorophenyl-phenylether	204.0		8.429		ND			
$ 101 Fluorene-d10	176.0	8.435	8.435	0.000	1377561	31.223	31.223	
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.462		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.461	8.472	-0.011	281506	25.893	25.893	Q
51 4,6-Dinitro-2-methylphenol	198.0		8.478		ND			
52 N-Nitrosodiphenylamine	169.0		8.526		ND			
54 4-Bromophenyl-phenylether	248.0		8.851		ND			
55 Hexachlorobenzene	284.0		8.932		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.274	-0.011	1194507	20.000	20.000	
59 Phenanthrene	178.0		9.295		ND			
$ 103 Anthracene-d10	188.0	9.316	9.322	-0.006	2395829	39.342	39.342	
60 Anthracene	178.0		9.338		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.669		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.636	10.641	-0.005	2649408	44.612	44.612	
64 Pyrene	202.0		10.663		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
66 Butylbenzylphthalate	149.0		11.277		ND			
71 bis(2-Ethylhexyl)phthalate	149.0		12.009		ND			
68 3,3'-Dichlorobenzidine	252.0		12.073		ND			
67 Benzo(a)anthracene	228.0		12.164		ND			
* 69 Chrysene-d12	240.0	12.169	12.180	-0.011	1361067	20.000	20.000	
70 Chrysene	228.0		12.222		ND			
72 Di-n-octylphthalate	149.0		12.992		ND			
73 Benzo(b)fluoranthene	252.0		13.814		ND			
74 Benzo(k)fluoranthene	252.0		13.857		ND			
$ 105 Benzo(a)pyrene-d12	264.0	14.322	14.322	0.000	2295265	36.242	36.242	
75 Benzo(a)pyrene	252.0		14.375		ND			
* 76 Perylene-d12	264.0	14.450	14.466	-0.016	1306441	20.000	20.000	
77 Indeno(1,2,3-cd)pyrene	276.0		16.630		ND			
78 Dibenzo(a,h)anthracene	278.0		16.635		ND			
79 Benzo(g,h,i)perylene	276.0		17.271		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

Q - Qualifier Signal(s) Fails Ratio Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122303.D		
Lab Sample ID:	QQ92747-001	Client Sample ID:	SBLK47
Injection Date:	23-Dec-2015 09:20:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12122315.b, QQ92747-001		
Method:	\\Organics\HH\chem\msd12.i\12122315.b\SOMBNA.m		
Method Date:	23-Dec-2015 10:01:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	BLANK	ALS Bottle:	1
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	23-Dec-2015 14:12:30

Tentative Identified Compound Results

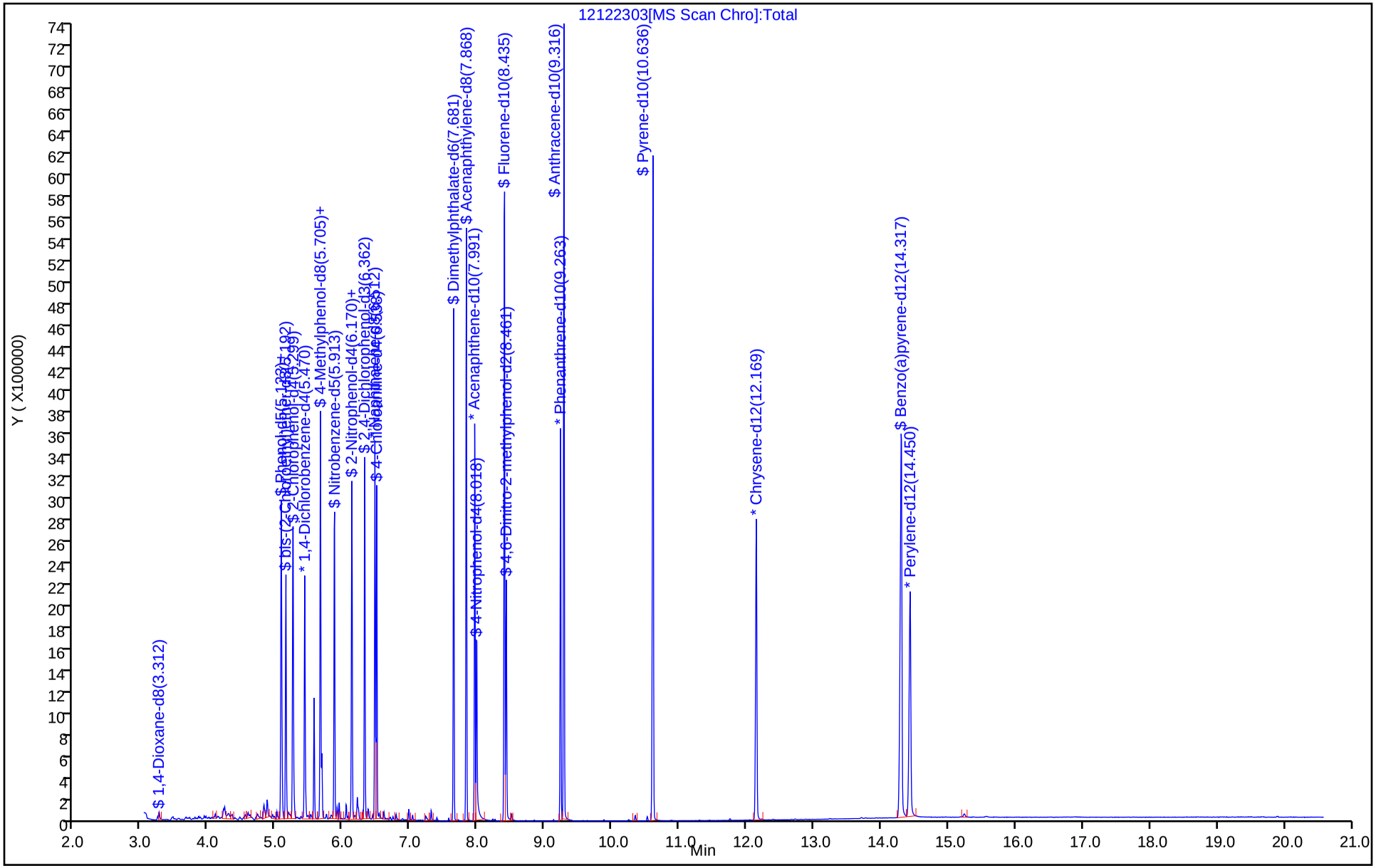
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
	Unknown							
4.268	229695	2.0375	2.0375	8				

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.470	2254699	20.000

Report Date: 23-Dec-2015 16:08:27 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122303.D				
Injection Date:	23-Dec-2015 09:20:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SBLK47	Lab ID:	QQ92747-001		
Sample Info:	12122315.b, QQ92747-001				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

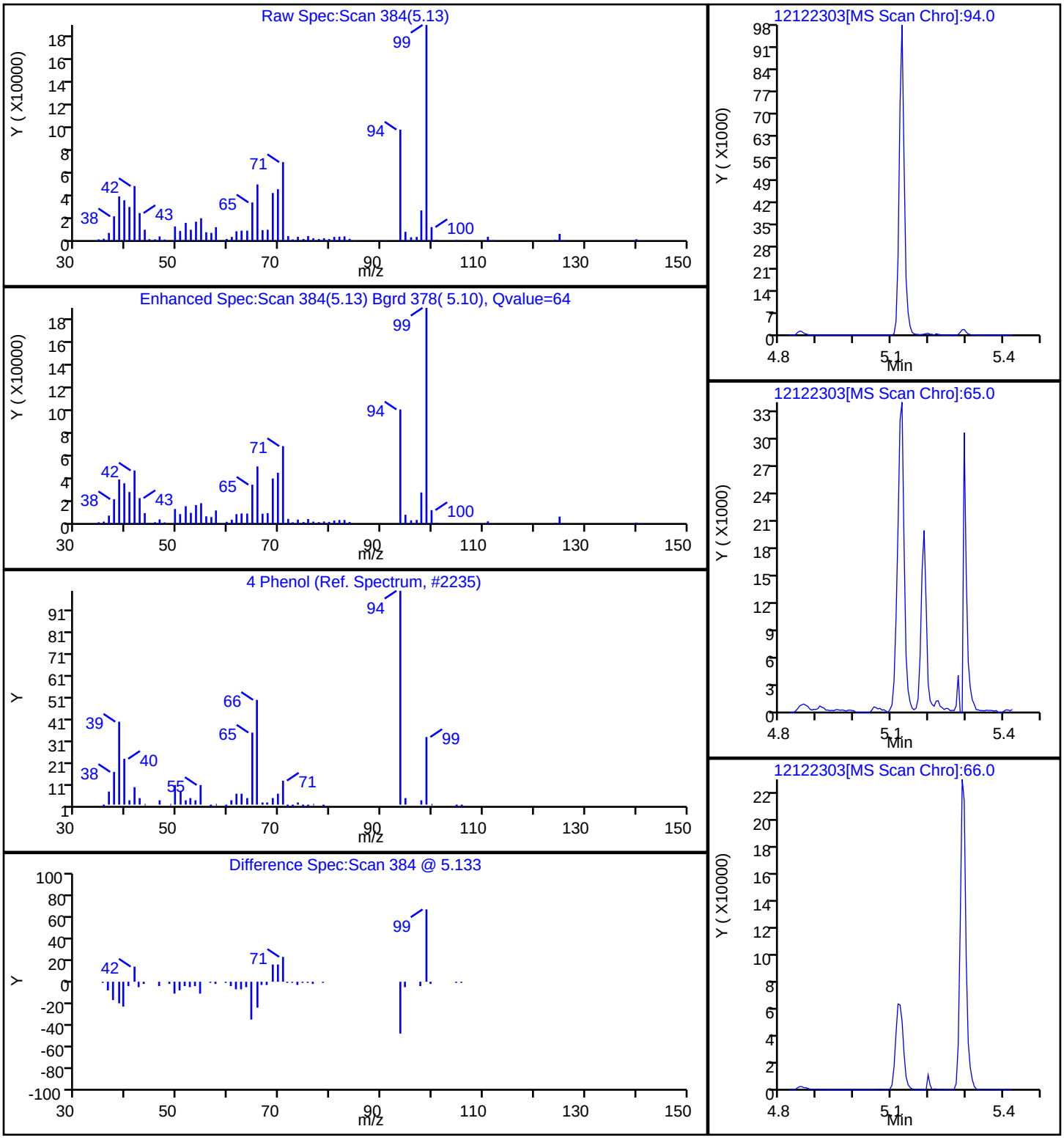


Report Date: 23-Dec-2015 16:08:27 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122303.D		
Injection Date:	23-Dec-2015 09:20:30	Inst. ID:	msd12.i
Client ID:	SBLK47	Lab ID:	QQ92747-001
Sample Info:	12122315.b, QQ92747-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

4 Phenol

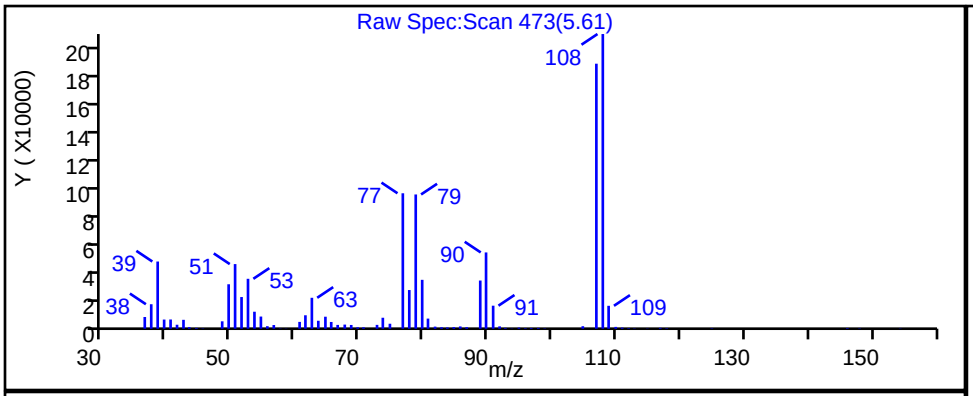


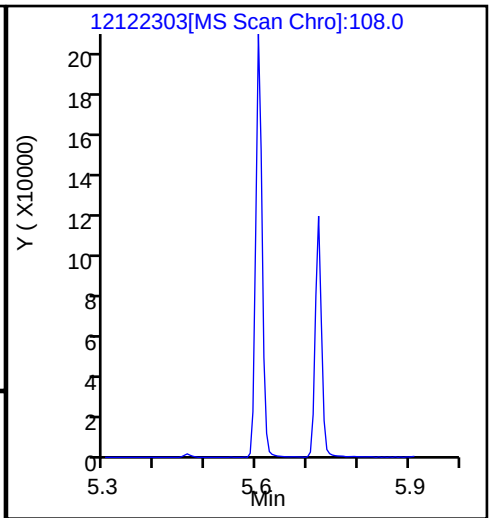
Report Date: 23-Dec-2015 16:08:27 AIM Revision: 1.0 26-May-2015 13:41:26

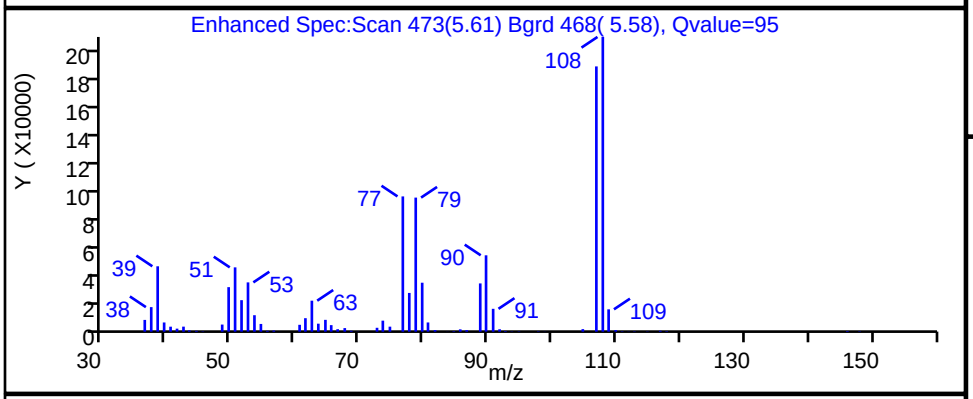
Shealy Environmental Services

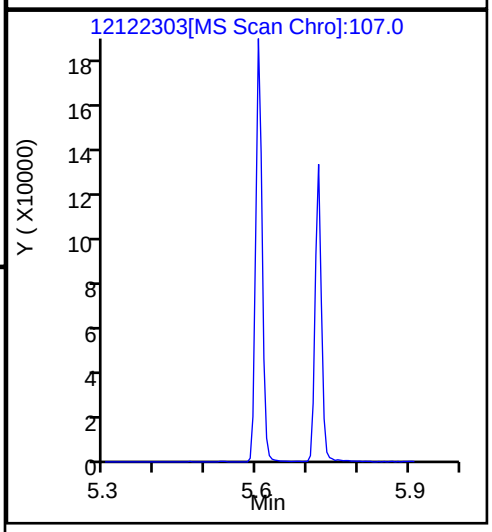
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122303.D		
Injection Date:	23-Dec-2015 09:20:30	Inst. ID:	msd12.i
Client ID:	SBLK47	Lab ID:	QQ92747-001
Sample Info:	12122315.b, QQ92747-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

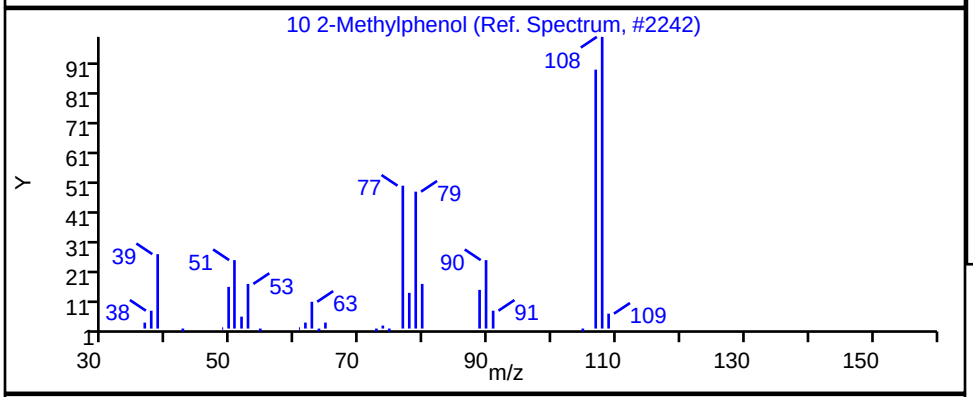
10 2-Methylphenol

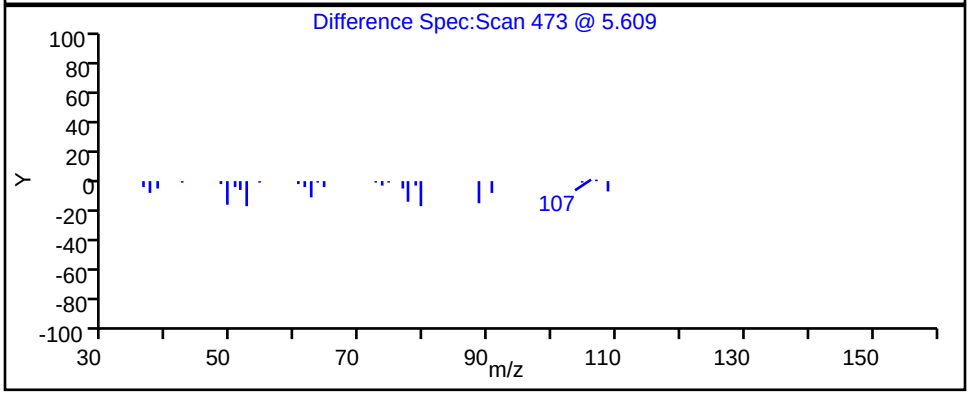










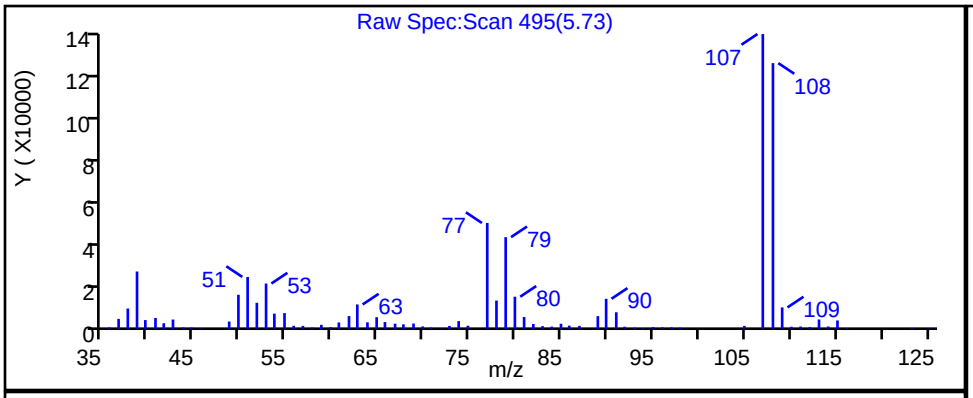


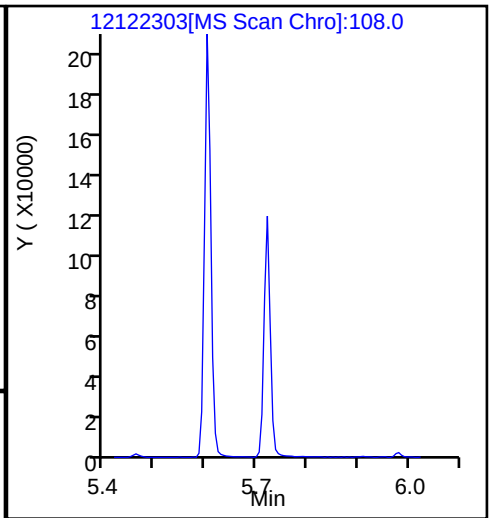
Report Date: 23-Dec-2015 16:08:27 AIM Revision: 1.0 26-May-2015 13:41:26

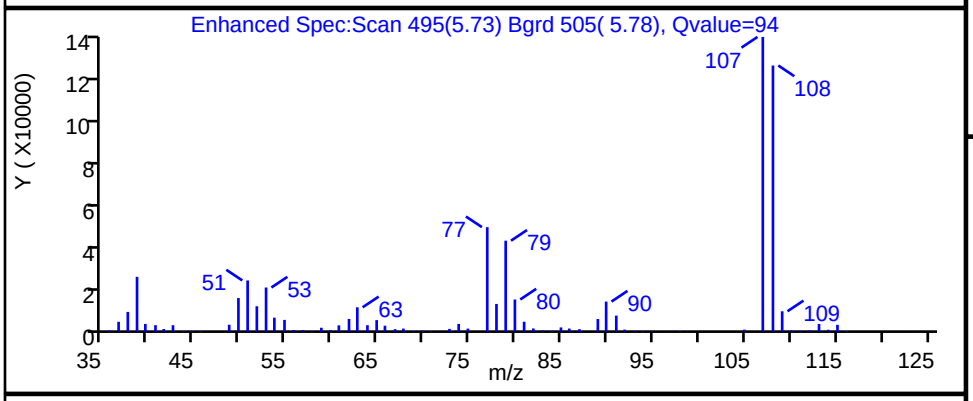
Shealy Environmental Services

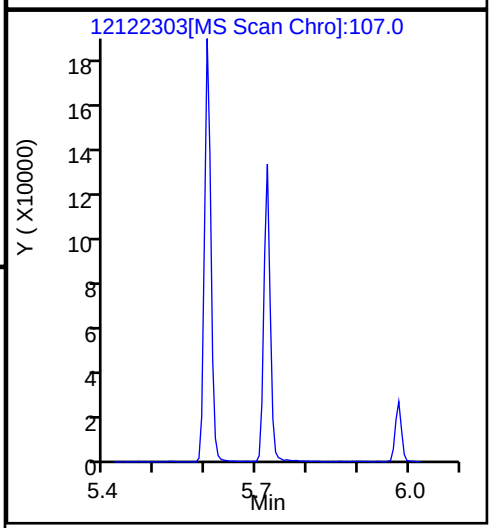
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122303.D		
Injection Date:	23-Dec-2015 09:20:30	Inst. ID:	msd12.i
Client ID:	SBLK47	Lab ID:	QQ92747-001
Sample Info:	12122315.b, QQ92747-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

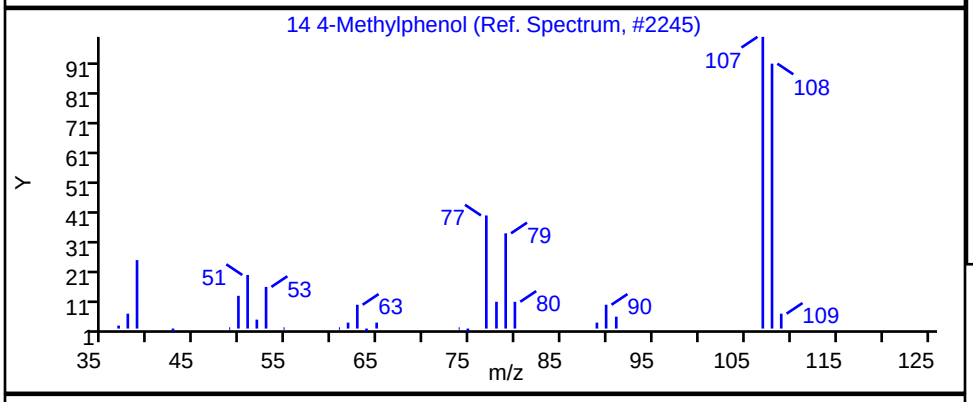
14 4-Methylphenol

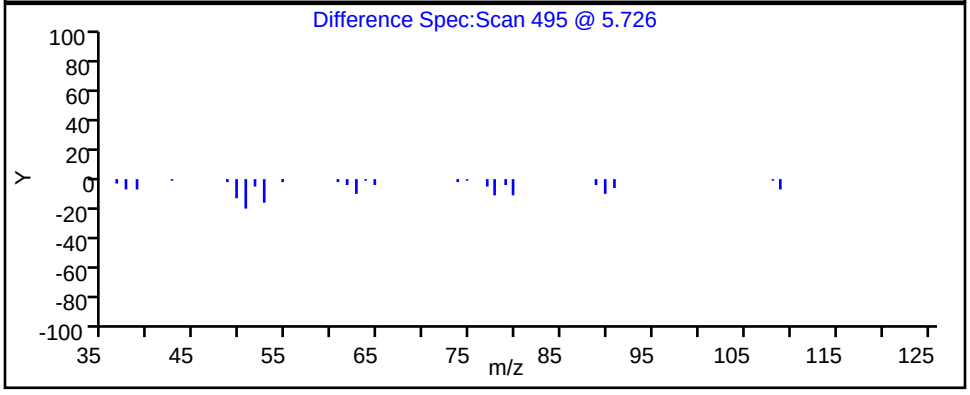










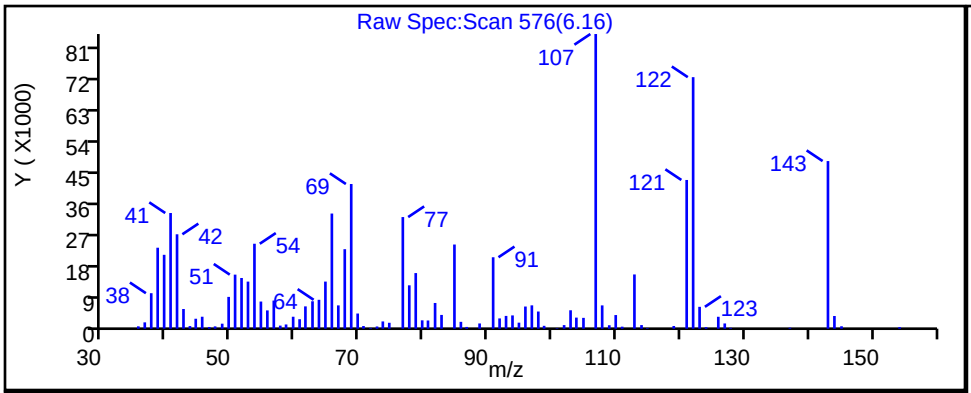


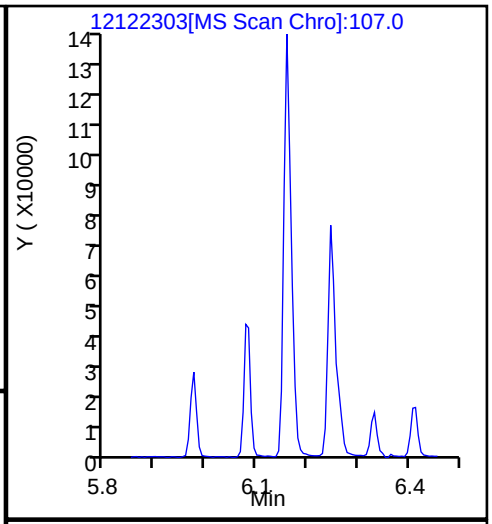
Report Date: 23-Dec-2015 16:08:27 AIM Revision: 1.0 26-May-2015 13:41:26

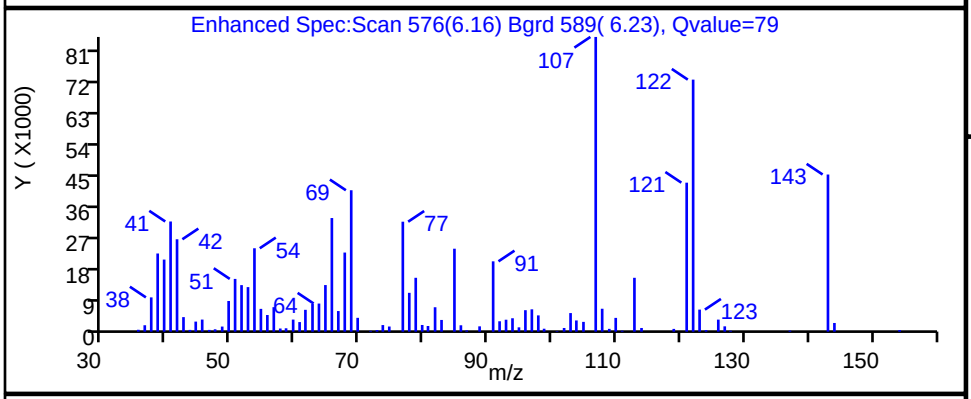
Shealy Environmental Services

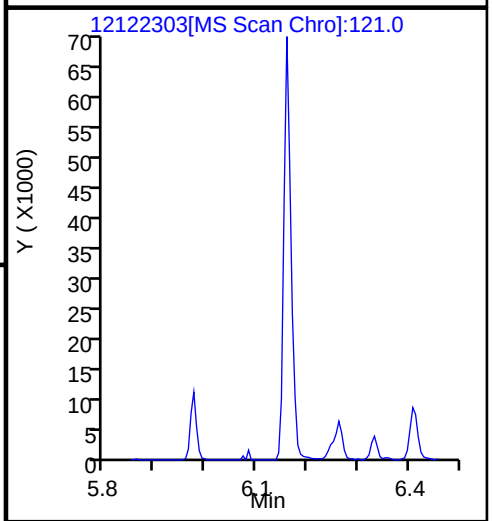
Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122303.D		
Injection Date:	23-Dec-2015 09:20:30	Inst. ID:	msd12.i
Client ID:	SBLK47	Lab ID:	QQ92747-001
Sample Info:	12122315.b, QQ92747-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

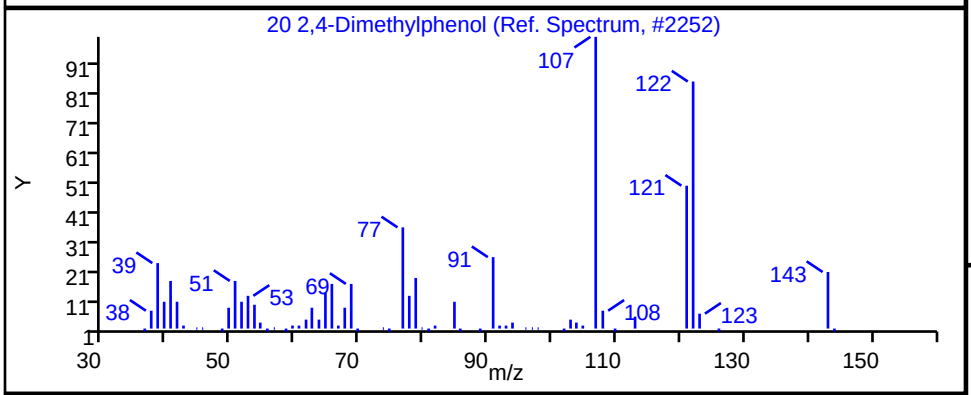
20 2,4-Dimethylphenol

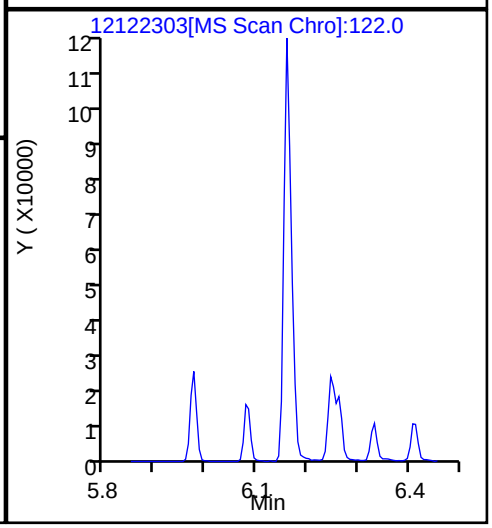


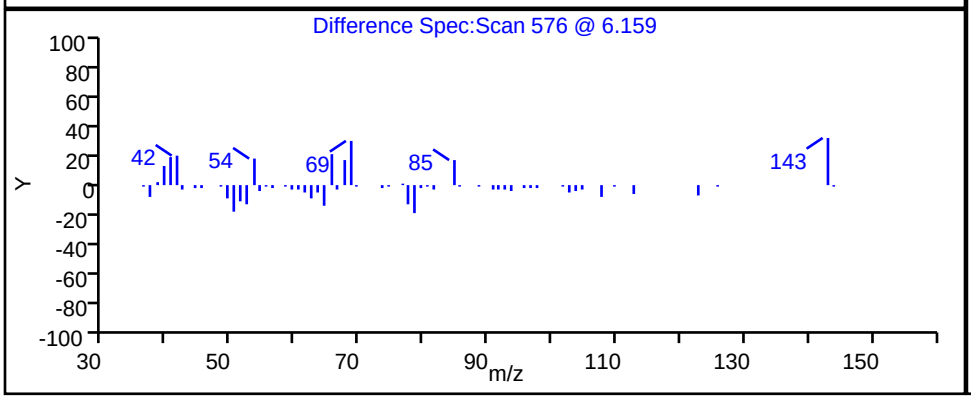












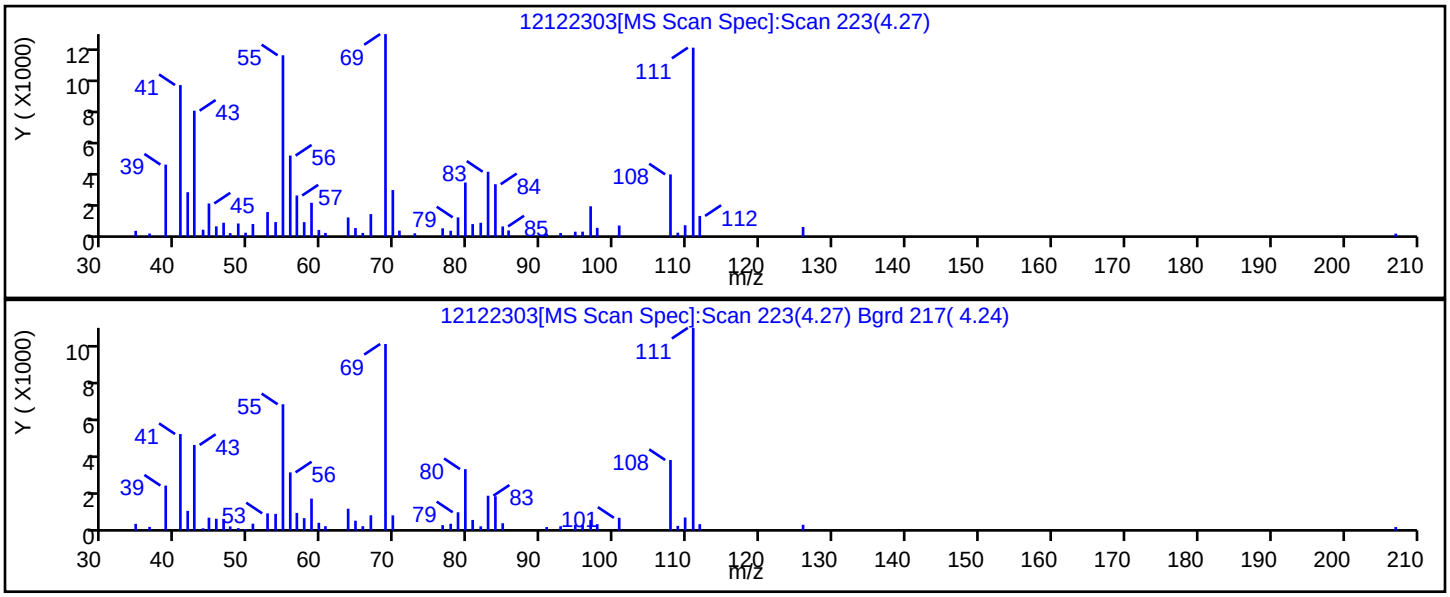
Report Date: 23-Dec-2015 16:08:27 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12122315.b\12122303.D		
Injection Date:	23-Dec-2015 09:20:30	Inst. ID:	msd12.i
Client ID:	SBLK47	Lab ID:	QQ92747-001
Sample Info:	12122315.b, QQ92747-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.268

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK44

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QQ92944-001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 12123103

% Solids: _____ Date Received: _____

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	2.0	U
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	Bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclo-pentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK44

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QQ92944-001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 12123103

% Solids: _____ Date Received: _____

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	5.0	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U
51-28-5	2,4-Dinitrophenol	10	U
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
7005-72-3	4-Chlorophenyl-phenyl ether	5.0	U
86-73-7	Fluorene	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	10	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK44

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: _____ SDG No.: F6R29

Analytical Method: SVOA Level: LOW

Matrix: Water Lab Sample ID: QQ92944-001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 12123103

% Solids: _____ Date Received: _____

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/23/2015

GC Column: _____ ID: _____ (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) _____ Extract Volume: 1000 (uL)

Soil Aliquot (VOA): _____ (uL) Extraction Type: CLLE

Heated Purge: (Y/N) _____ Injection Volume: 1.0 (uL)

Purge Volume: _____ (mL) pH: _____ Dilution Factor: 1.0

Cleanup Types: _____ Cleanup Factor: _____

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK44

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI Case No.: 45671
MA No.: SDG No.: F6R29
Analytical Method: SVOA
Level: LOW
Matrix: Water
Lab Sample ID: QQ92944-001
Sample wt/vol: 1000 (g/mL) mL
Lab File ID: 12123103
% Solids:
Date Received:
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/23/2015
Extract Concentrated: (Y/N)
Date Analyzed: 12/31/2015
Soil Aliquot (VOA): (uL)
Extract Volume: 1000 (uL)
Heated Purge: (Y/N)
Extraction Type: CLLE
Purge Volume: (mL)
Injection Volume: 1.0
Cleanup Types:
pH: Dilution Factor: 1.0
Concentration Units (ug/L, ug/Kg): ug/L
Cleanup Factor:

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	141-79-7	3-Penten-2-one, 4-methyl-	3.95	10	NJ
02		Unknown-01	4.03	2.3	J
03		Unknown-02	7.01	4.5	J
04	85-44-9	Phthalic anhydride	7.14	2.2	NJ
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[2]	Total Alkanes	N/A		

[2]EPA-designated Registry Number.

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123103.D		
Lab Sample ID:	QQ92944-001	Client Sample ID:	SBLK44
Injection Date:	31-Dec-2015 09:17:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QQ92944-001		
Misc. Info:	92944		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	BLANK	ALS Bottle:	1
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	31-Dec-2015 11:29:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 3 Phenol-d5	99.0	5.128	5.133	-0.005	384188	13.031	13.031	Q
108 1,4-Dioxane	88.0		3.322		ND			
$ 109 1,4-Dioxane-d8	96.0	3.295	3.301	-0.006	49011	4.5450	4.5450	
4 Phenol	94.0		5.144		ND			
2 Benzaldehyde	77.0		5.138		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.187	5.192	-0.005	563223	28.324	28.324	
5 bis(2-Chloroethyl)Ether	93.0		5.229		ND			
$ 6 2-Chlorophenol-d4	132.0	5.299	5.299	0.000	682085	34.969	34.969	
7 2-Chlorophenol	128.0		5.309		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	5.464	5.470	-0.006	321870	20.000	20.000	
10 2-Methylphenol	108.0		5.619		ND			
11 2,2'-oxybis(1-Chloropropane)	45.0		5.641		ND			
$ 94 4-Methylphenol-d8	113.0	5.710	5.721	-0.011	474159	22.141	22.141	Q
14 4-Methylphenol	108.0		5.742		ND			
13 N-Nitroso-di-n-propylamine	70.0		5.763		ND			
12 Acetophenone	105.0		5.779		ND			
15 Hexachloroethane	117.0		5.886		ND			
$ 16 Nitrobenzene-d5	128.0	5.908	5.913	-0.005	362202	31.910	31.910	
17 Nitrobenzene	77.0		5.929		ND			
18 Isophorone	82.0		6.116		ND			
20 2,4-Dimethylphenol	107.0		6.175		ND			
$ 95 2-Nitrophenol-d4	143.0	6.170	6.175	-0.005	374826	28.836	28.836	
19 2-Nitrophenol	139.0		6.186		ND			
21 bis(2-Chloroethoxy)methane	93.0		6.244		ND			

Report Date: 04-Jan-2016 10:27:26 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd12.i\12123115.b\12123103.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 96 2,4-Dichlorophenol-d3	165.0	6.362	6.372	-0.010	502120	26.314	26.314	
22 2,4-Dichlorophenol	162.0		6.378		ND			
* 23 Naphthalene-d8	136.0	6.511	6.511	0.000	1312936	20.000	20.000	
24 Naphthalene	128.0		6.533		ND			
$ 97 4-Chloroaniline-d4	131.0	6.538	6.543	-0.005	39569	1.3756	1.3756	Qe
25 4-Chloroaniline	127.0		6.533		ND			
26 Hexachlorobutadiene	225.0		6.602		ND			
27 Caprolactam	113.0		6.864		ND			
28 4-Chloro-3-methylphenol	107.0		6.933		ND			
29 2-Methylnaphthalene	142.0		7.099		ND			
30 Hexachlorocyclopentadiene	237.0		7.222		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.238		ND			
31 2,4,6-Trichlorophenol	196.0		7.323		ND			
32 2,4,5-Trichlorophenol	196.0		7.371		ND			
34 1,1'-Biphenyl	154.0		7.478		ND			
35 2-Chloronaphthalene	162.0		7.521		ND			
36 2-Nitroaniline	65.0		7.596		ND			
$ 98 Dimethylphthalate-d6	166.0	7.676	7.681	-0.005	1244253	27.007	27.007	
37 Dimethylphthalate	163.0		7.703		ND			
39 2,6-Dinitrotoluene	165.0		7.777		ND			
$ 99 Acenaphthylene-d8	160.0	7.863	7.868	-0.005	101727	1.6688	1.6688	QeR
38 Acenaphthylene	152.0		7.884		ND			
40 3-Nitroaniline	138.0		7.938		ND			
* 41 Acenaphthene-d10	164.0	7.991	7.997	-0.006	705332	20.000	20.000	
43 2,4-Dinitrophenol	184.0		8.023		ND			
42 Acenaphthene	153.0		8.023		ND			
$ 100 4-Nitrophenol-d4	143.0	8.045	8.055	-0.010	299452	26.585	26.585	
44 4-Nitrophenol	109.0		8.061		ND			
46 2,4-Dinitrotoluene	165.0		8.125		ND			
45 Dibenzofuran	168.0		8.167		ND			
107 2,3,4,6-Tetrachlorophenol	232.0		8.258		ND			
47 Diethylphthalate	149.0		8.285		ND			
49 4-Chlorophenyl-phenylether	204.0		8.424		ND			
$ 101 Fluorene-d10	176.0	8.429	8.435	-0.006	993699	22.989	22.989	Q
50 4-Nitroaniline	138.0		8.472		ND			
48 Fluorene	166.0		8.461		ND			
$ 102 4,6-Dinitro-2-methylphenol-d2	200.0	8.461	8.472	-0.011	262824	24.480	24.480	Q
51 4,6-Dinitro-2-methylphenol	198.0		8.483		ND			
52 N-Nitrosodiphenylamine	169.0		8.520		ND			
54 4-Bromophenyl-phenylether	248.0		8.846		ND			
55 Hexachlorobenzene	284.0		8.931		ND			
56 Atrazine	200.0		8.942		ND			
57 Pentachlorophenol	266.0		9.092		ND			
* 58 Phenanthrene-d10	188.0	9.263	9.268	-0.005	1179592	20.000	20.000	
59 Phenanthrene	178.0		9.289		ND			
$ 103 Anthracene-d10	188.0	9.311	9.316	-0.005	253650	4.2178	4.2178	QeR
60 Anthracene	178.0		9.337		ND			
106 Carbazole	167.0		9.450		ND			
62 Di-n-butylphthalate	149.0		9.663		ND			
63 Fluoranthene	202.0		10.401		ND			
$ 104 Pyrene-d10	212.0	10.630	10.636	-0.006	489742	10.230	10.230	Q

	Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
	64 Pyrene	202.0		10.657		ND			
	66 Butylbenzylphthalate	149.0		11.271		ND			
	71 bis(2-Ethylhexyl)phthalate	149.0		11.998		ND			
	68 3,3'-Dichlorobenzidine	252.0		12.067		ND			
	67 Benzo(a)anthracene	228.0		12.158		ND			
*	69 Chrysene-d12	240.0	12.164	12.179	-0.015	1097164	20.000	20.000	I
	70 Chrysene	228.0		12.217		ND			
	72 Di-n-octylphthalate	149.0		12.981		ND			
	73 Benzo(b)fluoranthene	252.0		13.809		ND			
	74 Benzo(k)fluoranthene	252.0		13.857		ND			
$	105 Benzo(a)pyrene-d12	264.0	14.306	14.316	-0.010	152828	3.2549	3.2549	QeR
	75 Benzo(a)pyrene	252.0		14.370		ND			
*	76 Perylene-d12	264.0	14.445	14.461	-0.016	968575	20.000	20.000	I
	77 Indeno(1,2,3-cd)pyrene	276.0		16.624		ND			
	78 Dibenzo(a,h)anthracene	278.0		16.630		ND			
	79 Benzo(g,h,i)perylene	276.0		17.260		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit
Q - Qualifier Signal(s) Fails Ratio Test
R - Spike/Surrogte Fails %Recovery Test
I - Istd Fails Area Recovery Test

Shealy Environmental Services
Tentatively Identified Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123103.D		
Lab Sample ID:	QQ92944-001	Client Sample ID:	SBLK44
Injection Date:	31-Dec-2015 09:17:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd12.i
Sample Info:	12123115.b, QQ92944-001		
Misc. Info:	92944		
Method:	\\Organics\HH\chem\msd12.i\12123115.b\SOMBNA.m		
Method Date:	31-Dec-2015 11:19:30	Quant Method:	ISTD
Calib Date:	11-Dec-2015 10:42:30	Calib File:	12121106.D
Sample Type:	BLANK	ALS Bottle:	1
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	31-Dec-2015 11:29:30

Tentative Identified Compound Results

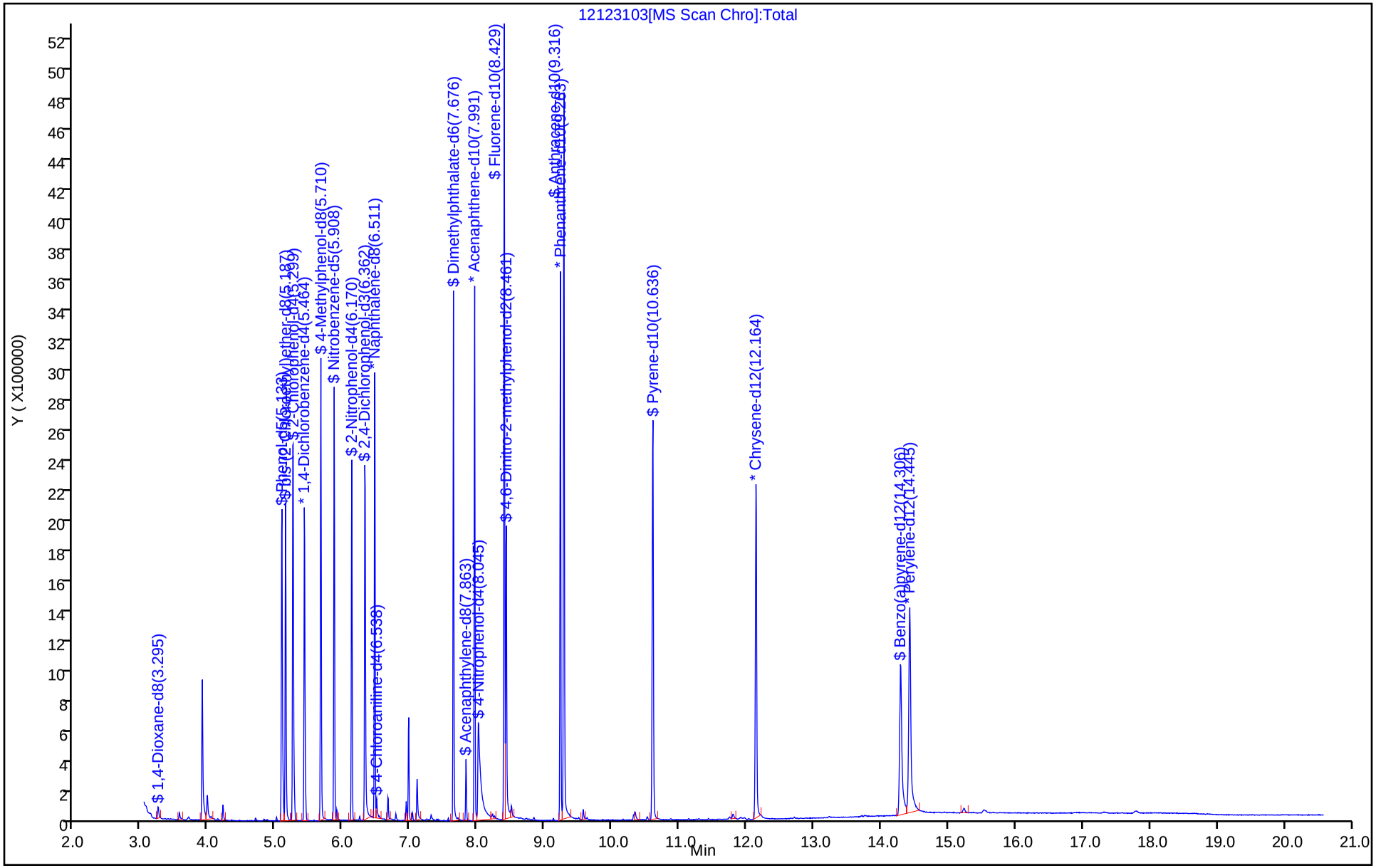
RT	Response	Amount ng/ul	Final Conc ug/L	Quant Cpnd	Qual	Lib Entry	Molecular Formula	Mol. Weight
141-79-7	3-Penten-2-one, 4-methyl-							
3.953	1112662	10.442	10.442	8	95	3246	C6H10O	98
	Unknown							
4.027	247410	2.3220	2.3220	8				
	Unknown							
7.014	611486	4.4816	4.4816	23				
85-44-9	Phthalic anhydride							
7.137	302335	2.2158	2.2158	23	97	23152	C8H4O3	148

Quant. Compounds	RT	Response	Amount ng/ul
* 8 1,4-Dichlorobenzene-d4	5.464	2131028	20.000
* 23 Naphthalene-d8	6.511	2728862	20.000

Report Date: 04-Jan-2016 10:27:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123103.D				
Injection Date:	31-Dec-2015 09:17:30	Inst. ID:	msd12.i	Operator:	RBH
Client ID:	SBLK44	Lab ID:	QQ92944-001		
Sample Info:	12123115.b, QQ92944-001				
Injection Vol.	1.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



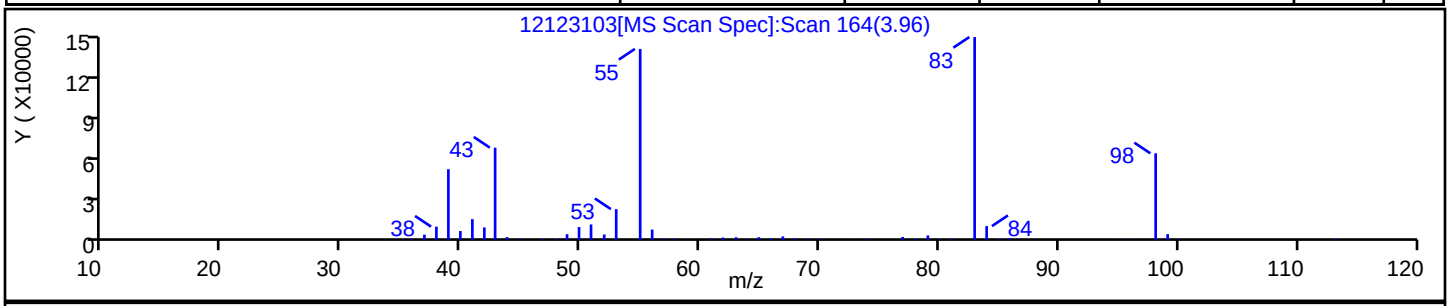
Report Date: 04-Jan-2016 10:27:26 AIM Revision: 1.0 26-May-2015 13:41:26

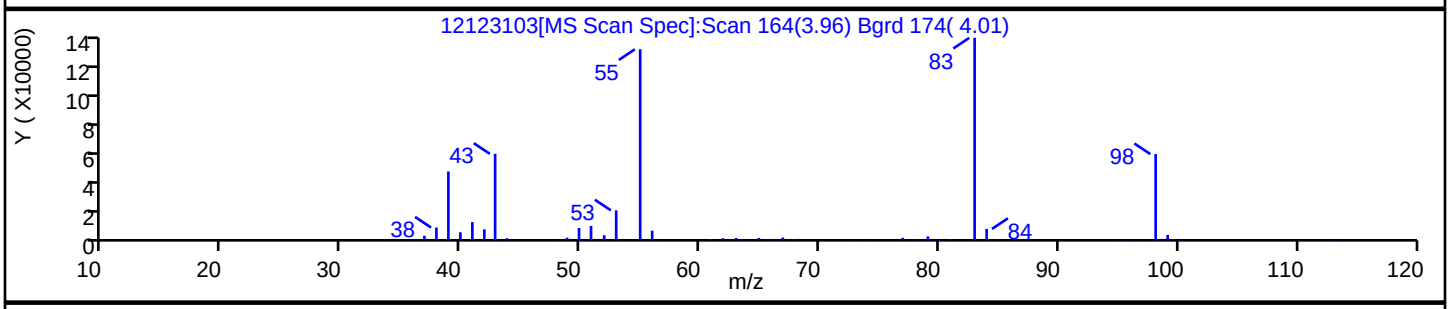
Shealy Environmental Services

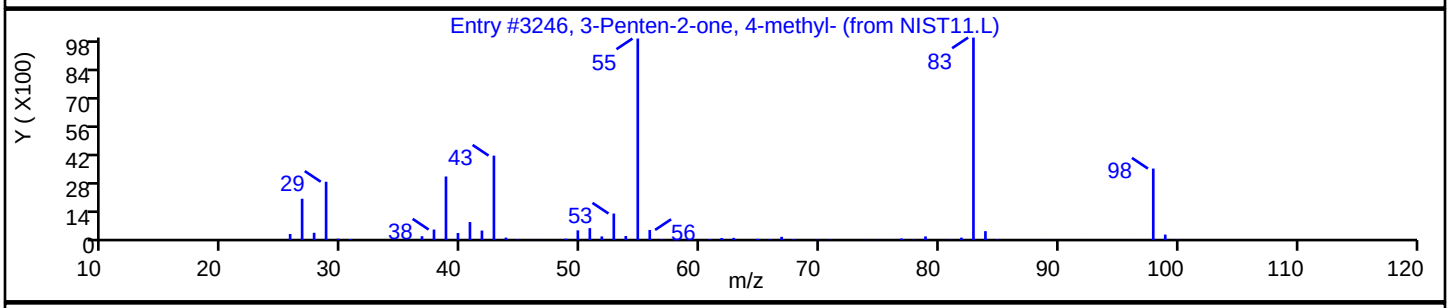
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123103.D		
Injection Date:	31-Dec-2015 09:17:30	Inst. ID:	msd12.i
Client ID:	SBLK44	Lab ID:	QQ92944-001
Sample Info:	12123115.b, QQ92944-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

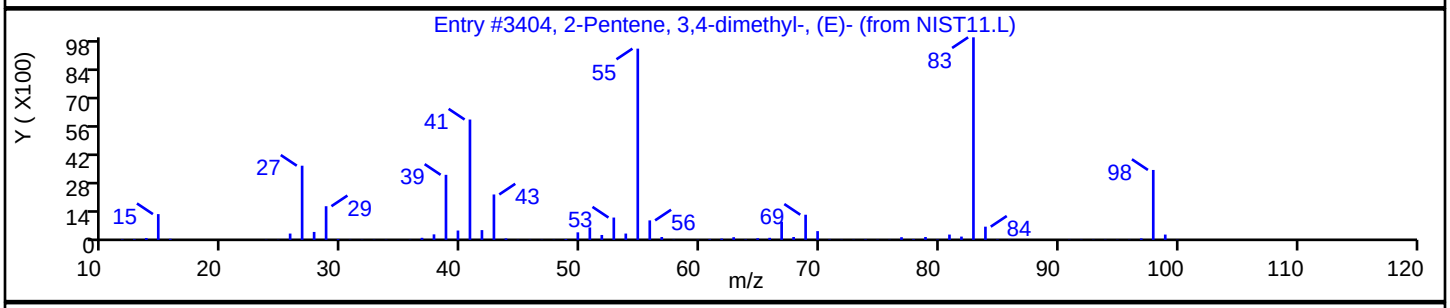
TIC @ 3.953

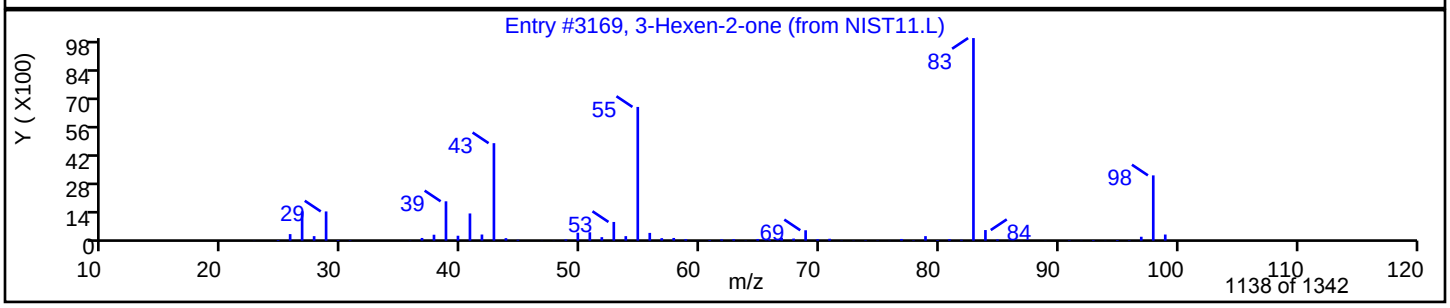
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
3-Penten-2-one, 4-methyl-	141-79-7	NIST11	3246	C6H10O	98	95
2-Pentene, 3,4-dimethyl-, (E)-	4914-92-5	NIST11	3404	C7H14	98	90
3-Hexen-2-one	763-93-9	NIST11	3169	C6H10O	98	87











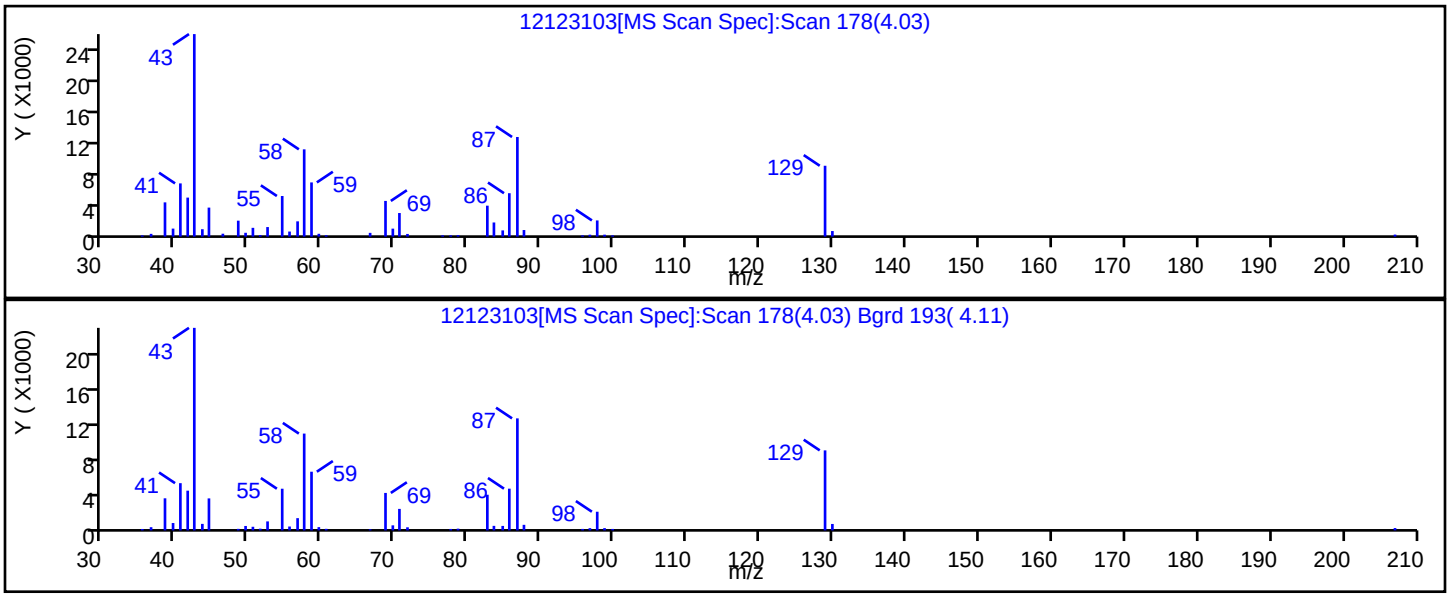
Report Date: 04-Jan-2016 10:27:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123103.D		
Injection Date:	31-Dec-2015 09:17:30	Inst. ID:	msd12.i
Client ID:	SBLK44	Lab ID:	QQ92944-001
Sample Info:	12123115.b, QQ92944-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 4.027

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



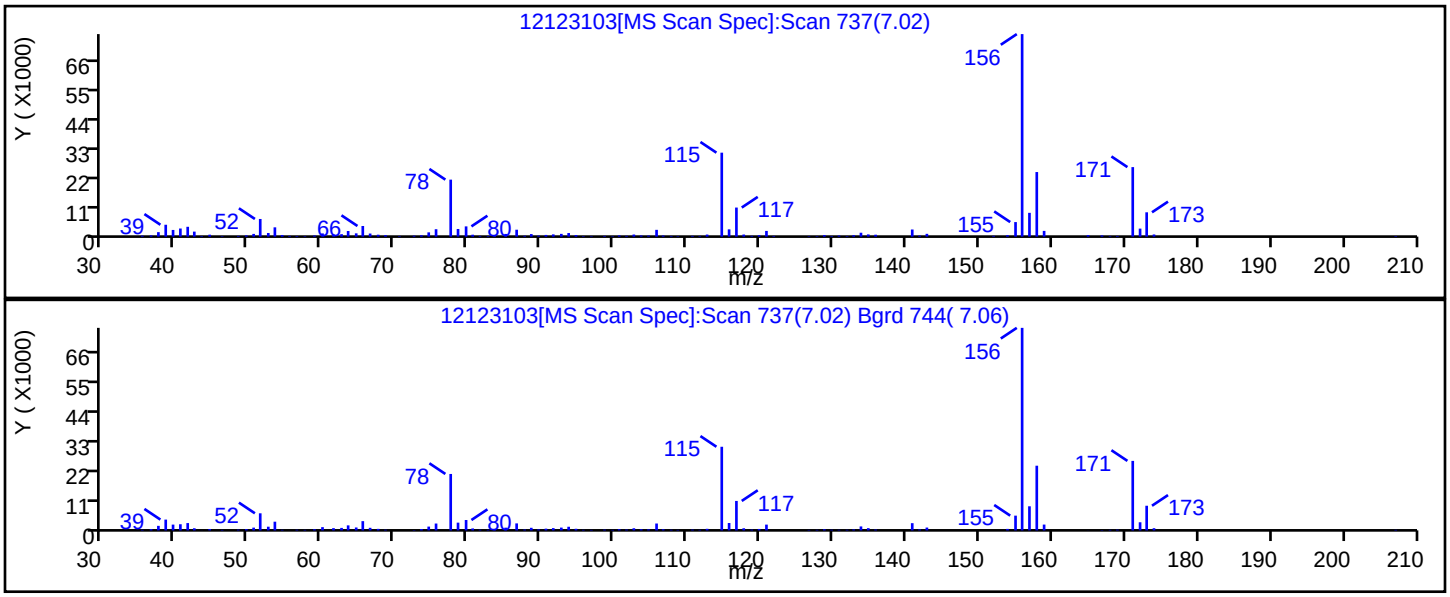
Report Date: 04-Jan-2016 10:27:26 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123103.D		
Injection Date:	31-Dec-2015 09:17:30	Inst. ID:	msd12.i
Client ID:	SBLK44	Lab ID:	QQ92944-001
Sample Info:	12123115.b, QQ92944-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

TIC @ 7.014

Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Unknown		NIST11				



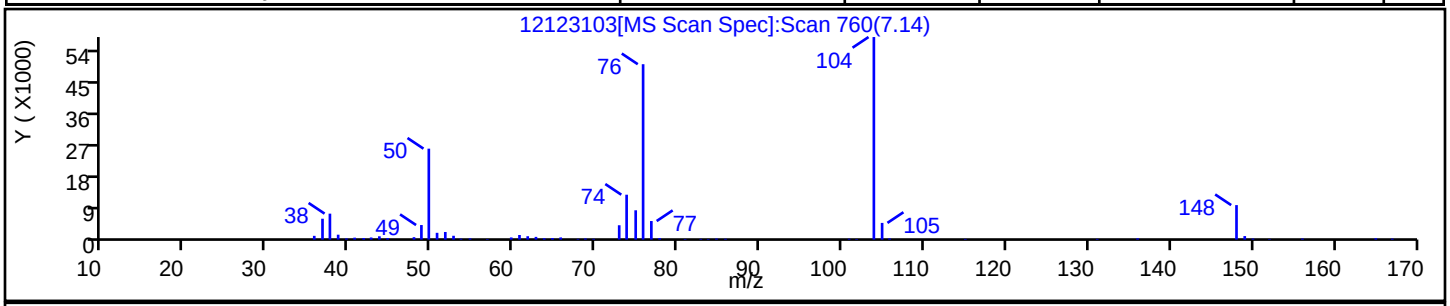
Report Date: 04-Jan-2016 10:27:27 AIM Revision: 1.0 26-May-2015 13:41:26

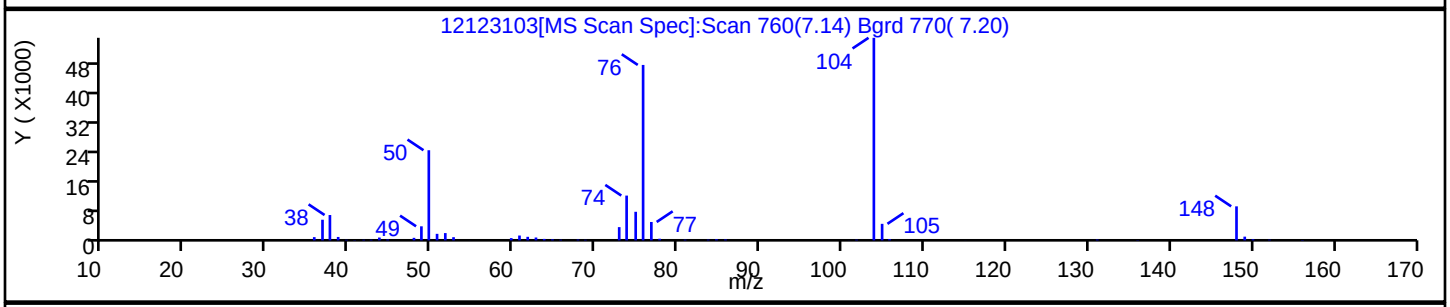
Shealy Environmental Services

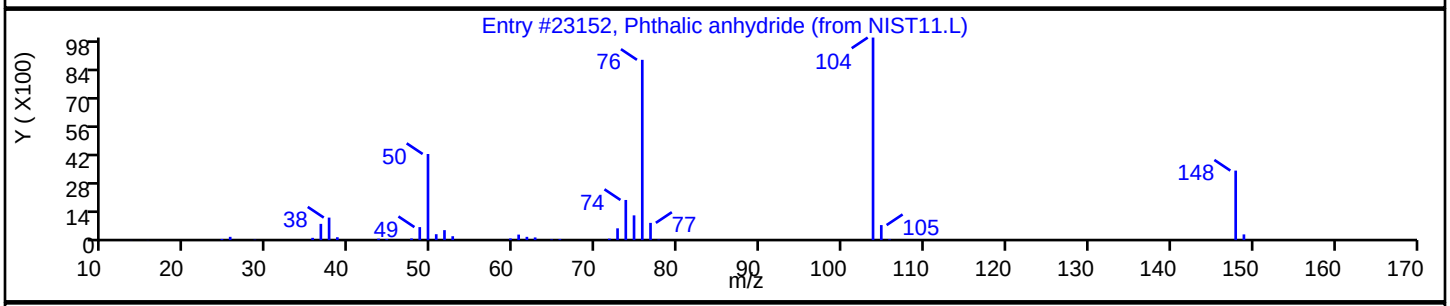
Data File:	\\Organics\HH\chem\msd12.i\12123115.b\12123103.D		
Injection Date:	31-Dec-2015 09:17:30	Inst. ID:	msd12.i
Client ID:	SBLK44	Lab ID:	QQ92944-001
Sample Info:	12123115.b, QQ92944-001		
Injection Vol.	1.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

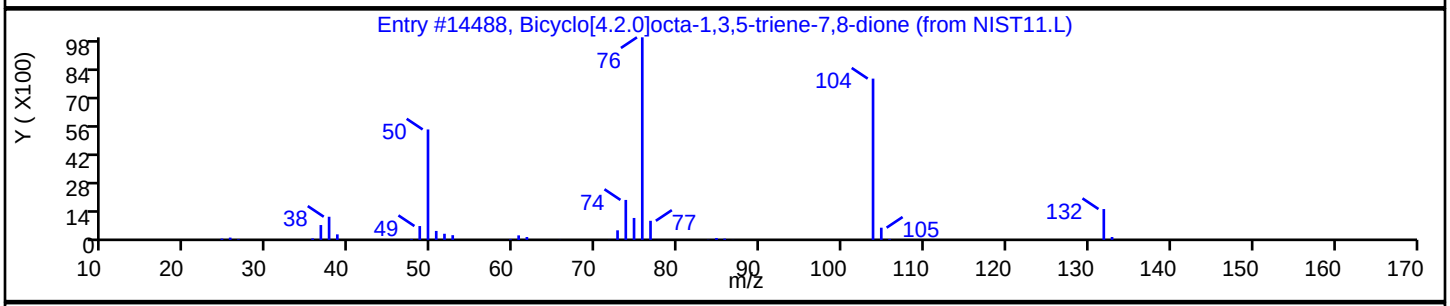
TIC @ 7.137

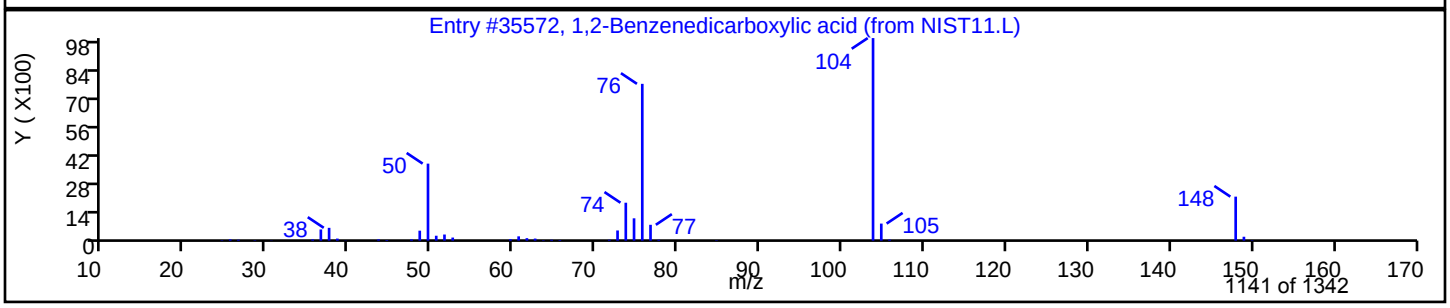
Library Search Compound Match	CAS#	Library	Entry	Formula	Weight	Q
Phthalic anhydride	85-44-9	NIST11	23152	C8H4O3	148	97
Bicyclo[4.2.0]octa-1,3,5-triene-7,8-dion	6383-11-5	NIST11	14488	C8H4O2	132	91
1,2-Benzenedicarboxylic acid	88-99-3	NIST11	35572	C8H6O4	166	91











SEMIVOLATILE
Miscellaneous Data

Run Logs

Standard Preparation Logs

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd12.i\12121115.b
Inst. ID: msd12.i Method: SOMBNA
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	ICal Lvl	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	11-Dec-2015 08:13:30	12121101.D	DFTPP		DFTPPNF	Water	1	all			Yes					SOMDFTPP
1	SSTD005NG	11-Dec-2015 08:48:30	12121102.D	Ical	1	SSTD005NG	Water	1	std		Yes					SVMS 1680	SOMBNA
2	SSTD010NG	11-Dec-2015 09:16:30	12121103.D	Ical	2	SSTD010NG	Water	1	std		Yes					SVMS 1681	SOMBNA
3	SSTD020NG	11-Dec-2015 09:44:30	12121104.D	Ical	3	SSTD020NG	Water	1	std		Yes					SVMS 1673	SOMBNA
4	SSTD040NG	11-Dec-2015 10:13:30	12121105.D	Ical	4	SSTD040NG	Water	1	std		Yes					SVMS 1682	SOMBNA
5	SSTD080NG	11-Dec-2015 10:42:30	12121106.D	Ical	5	SSTD080NG	Water	1	std		Yes					SVMS 1683	SOMBNA

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd12.i\12122215.b
Inst. ID: msd12.i Method: SOMBNA
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	22-Dec-2015 08:25:30	12122201.D	DFTPP	DFTPPOU	Water	1	all			Yes				IS:SVMS 1644	SOMDFTPP
97	SSTD020OV	22-Dec-2015 08:47:30	12122202.D	Ccv	SSTD020OV	Water	1	std		Yes					SVMS 1673	SOMBNA
1	QL11018-015	22-Dec-2015 10:16:30	12122203.D	Client	F6R06DL	Soil	100	std		Yes						SOMBNA
2	GPCBLK12	22-Dec-2015 10:46:30	12122204.D	Client	GPCBLK12	Water	1	std		Yes						SOMBNA
3	QQ92512-001	22-Dec-2015 11:14:30	12122205.D	BLANK	SBLK12	Soil	1	std		Yes					92798	SOMBNA
4	QL12004-001	22-Dec-2015 11:43:30	12122206.D	Client	F6R18	Soil	20	std		Yes					rr-1X	SOMBNA
5	QL12004-002	22-Dec-2015 12:11:30	12122207.D	Client	F6R20	Soil	20	std		Yes						SOMBNA
6	QL12004-003	22-Dec-2015 12:40:30	12122208.D	Client	F6R21	Soil	20	std		Yes					rr-10X	SOMBNA
7	QL12004-004	22-Dec-2015 13:08:30	12122209.D	Client	F6R23	Soil	20	std		Yes						SOMBNA
8	QL12004-005	22-Dec-2015 13:37:30	12122210.D	Client	F6R24	Soil	20	std		Yes						SOMBNA
9	QL12004-006	22-Dec-2015 14:05:30	12122211.D	Client	F6R25	Soil	20	std		Yes						SOMBNA
10	QL12004-007	22-Dec-2015 14:34:30	12122212.D	Client	F6R26	Soil	20	std		Yes						SOMBNA
11	QL12004-008	22-Dec-2015 15:02:30	12122213.D	Client	F6R27	Soil	20	std		Yes					rr-5X	SOMBNA
12	QL12004-009	22-Dec-2015 15:31:30	12122214.D	Client	F6R28	Soil	20	std		Yes					rr-1X	SOMBNA
97	SSTD020OW	22-Dec-2015 16:00:30	12122215.D	Ccv	SSTD020OW	Water	1	std		Yes					SVMS 1673	SOMBNA
13	QQ92747-001	22-Dec-2015 16:43:30	12122216.D	Client		Water	1	std		Yes					IS	SOMBNA
14	QL16010-001	22-Dec-2015 17:12:30	12122217.D	Client	F6R29	Water	1	std		Yes						SOMBNA
15	QL16010-005	22-Dec-2015 17:40:30	12122218.D	Client	F6R35	Water	1	std		Yes						SOMBNA
16	QL16010-006	22-Dec-2015 18:08:30	12122219.D	Client	F6R36	Water	1	std		Yes						SOMBNA
17	QL16010-009	22-Dec-2015 18:37:30	12122220.D	Client	F6R30	Water	10	std		Yes						SOMBNA
18	QL16010-003	22-Dec-2015 19:05:30	12122221.D	Client	F6R33	Water	20	std		Yes						SOMBNA
19	QL16010-004	22-Dec-2015 19:34:30	12122222.D	Client	F6R34	Water	20	std		Yes						SOMBNA
20	QL16010-002	22-Dec-2015 20:02:30	12122223.D	Client	F6R32	Water	20	std		Yes					rr-1000X	SOMBNA
97	SSTD020OX	22-Dec-2015 20:30:30	12122224.D	Ccv	SSTD020OX	Water	1	std		Yes					SVMS 1673	SOMBNA-end

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd12.i\12122315.b
Inst. ID: msd12.i Method: SOMBNA
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	23-Dec-2015 08:33:30	12122301.D	DFTPP	DFTPPOY	Water	1	all			Yes				IS: svms1644	SOMDFTPP
97	SSTD020OZ	23-Dec-2015 08:51:30	12122302.D	Ccv	SSTD020OZ	Water	1	std		Yes					svms-1673	SOMBNA
1	QQ92747-001	23-Dec-2015 09:20:30	12122303.D	BLANK	SBLK47	Water	1	std		Yes						SOMBNA
3	GPCBLK46	23-Dec-2015 09:49:30	12122304.D	Client	GPCBLK46	Water	1	std		Yes						SOMBNA
4	QQ92846-001	23-Dec-2015 10:17:30	12122305.D	BLANK	SBLK46	Soil	1	std		Yes						SOMBNA
5	QL11018-015	23-Dec-2015 10:46:30	12122306.D	Client	F6R06RX	Soil	1	std		Yes					92926	SOMBNA
6	QL11018-010	23-Dec-2015 11:15:30	12122307.D	Client	F6R14	Soil	1	std		Yes					na	SOMBNA
15	QL11018-015	23-Dec-2015 11:44:30	12122308.D	Client	F6R06RX	Soil	5	std		Yes						SOMBNA
11	QL12004-001	23-Dec-2015 12:13:30	12122309.D	Client	F6R18	Soil	1	std		Yes						SOMBNA
12	QL12004-003	23-Dec-2015 12:41:30	12122310.D	Client	F6R21	Soil	10	std		Yes						SOMBNA
13	QL12004-008	23-Dec-2015 13:10:30	12122311.D	Client	F6R27	Soil	5	std		Yes						SOMBNA
14	QL12004-009	23-Dec-2015 13:38:30	12122312.D	Client	F6R28	Soil	1	std		Yes						SOMBNA
2	QL16010-002	23-Dec-2015 14:07:30	12122313.D	Client	F6R32DL	Water	1000	std		Yes					rr-2000X	SOMBNA
16	QL11018-010	23-Dec-2015 14:36:30	12122314.D	Client	F6R14	Soil	1	std		Yes					na	SOMBNA
17	QL11018-011	23-Dec-2015 15:04:30	12122315.D	Client	F6R15	Soil	1	std		Yes						SOMBNA
18	QL11018-013	23-Dec-2015 15:34:30	12122316.D	Client	F6R17	Soil	1	std		Yes						SOMBNA
19	QL11018-016	23-Dec-2015 16:04:30	12122317.D	Client	F6R07	Soil	1	std		Yes						SOMBNA
20	QL11018-017	23-Dec-2015 16:33:30	12122318.D	Client	F6R08	Soil	5	std		Yes						SOMBNA
22	QL11018-010	23-Dec-2015 17:02:30	12122319.D	Client	F6R14	Soil	1	std		Yes						SOMBNA
21	QL16010-002	23-Dec-2015 17:31:30	12122320.D	Client	F6R32DL2	Water	2000	std		Yes						SOMBNA
97	SSTD020PA	23-Dec-2015 17:59:30	12122321.D	Ccv	SSTD020PA	Water	1	std		Yes					svms-1673	SOMBNA-end

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd12.i\12123115.b
Inst. ID: msd12.i Method: SOMBNA
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	31-Dec-2015 08:26:30	12123101.D	DFTPP	DFTPPPC	Water	1	all			Yes				IS:SVMS 1644	SOMDFTPP
97	SSTD020PD	31-Dec-2015 08:44:30	12123102.D	Ccv	SSTD020PD	Water	1	std		Yes					SVMS 1673	SOMBNA
1	QQ92944-001	31-Dec-2015 09:17:30	12123103.D	BLANK	SBLK44	Water	1	std		Yes					IS, SS NCM	SOMBNA
2	QL16010-001	31-Dec-2015 09:46:30	12123104.D	Client	F6R29RX	Water	1	std		Yes					93427	SOMBNA
8	QQ92944-001	31-Dec-2015 10:21:30	12123105.D	Client		Water	1	std		Yes					NA	SOMBNA
3	QL16010-003	31-Dec-2015 10:49:30	12123106.D	Client	F6R33RX	Water	20	std		Yes						SOMBNA
4	QL16010-004	31-Dec-2015 11:18:30	12123107.D	Client	F6R34RX	Water	20	std		Yes						SOMBNA
5	QL16010-005	31-Dec-2015 11:47:30	12123108.D	Client	F6R35RX	Water	1	std		Yes						SOMBNA
6	QL16010-006	31-Dec-2015 12:15:30	12123109.D	Client	F6R36RX	Water	1	std		Yes						SOMBNA
7	QL16010-009	31-Dec-2015 12:44:30	12123110.D	Client	F6R30RX	Water	10	std		Yes						SOMBNA
97	SSTD020PG	31-Dec-2015 13:16:30	12123111.D	Ccv	SSTD020PG	Water	1	std		Yes					SVMS 1673	SOMBNA-end

Working Standards Prep Log - GC/MS Semi-volatiles

Initials: RBH
Prep Date: 12/08/15
Exp Date: 02/04/16

Mix #: SVMS 1673
Solvent Lot #: 15-1267
Solvent: CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM L-3 2.2							
SOM Intermediate	SVMS 1637	200	100.0	1.0	20		5/19/2016
SV Addition	15-325	1,000	20.0	1.0	20		2/4/2016
Internal Standard	15-882	4,000	5.0	1.0	20		5/19/2025
1,4 Dioxane	15-463	1,000	8.0	1.0	8		4/19/2016
1,4 Dioxane d8	15-462	1,000	8.0	1.0	8		4/19/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1680
Prep Date:	12/09/15	Solvent Lot #:	15-1267
Exp Date:	02/04/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM L-1 2.2							
SOM Intermediate	SVMS 1637	200	25.0	1.0	5		5/19/2016
SV Addition	15-325	1,000	5.0	1.0	5		2/4/2016
Internal Standard	15-882	4,000	5.0	1.0	20		5/19/2025
1,4 Dioxane	15-463	1,000	2.0	1.0	2		4/19/2016
1,4 Dioxane d8	15-462	1,000	2.0	1.0	2		4/19/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1681
Prep Date:	12/09/15	Solvent Lot #:	15-1267
Exp Date:	02/04/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM L-2 2.2							
SOM Intermediate	SVMS 1637	200	50.0	1.0	10		5/19/2016
SV Addition	15-325	1,000	10.0	1.0	10		2/14/2016
Internal Standard	15-882	4,000	5.0	1.0	20		5/19/2025
1,4 Dioxane	15-463	1,000	4.0	1.0	4		4/19/2016
1,4 Dioxane d8	15-462	1,000	4.0	1.0	4		4/19/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1682
Prep Date:	12/09/15	Solvent Lot #:	15-1267
Exp Date:	02/04/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM L-4 2.2							
SOM Intermediate	SVMS 1637	200	200.0	1.0	40		5/19/2016
SV Addition	15-325	1,000	40.0	1.0	40		2/4/2016
Internal Standard	15-882	4,000	5.0	1.0	20		5/19/2025
1,4 Dioxane	15-463	1,000	16.0	1.0	16		4/19/2016
1,4 Dioxane d8	15-462	1,000	16.0	1.0	16		4/19/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1683
Prep Date:	12/09/15	Solvent Lot #:	15-1267
Exp Date:	02/04/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM L-5 2.2							
SOM Intermediate	SVMS 1637	200	400.0	1.0	80		5/19/2016
SV Addition	15-325	1,000	80.0	1.0	80		2/4/2016
Internal Standard	15-882	4,000	5.0	1.0	20		5/19/2025
1,4 Dioxane	15-463	1,000	32.0	1.0	32		4/19/2016
1,4 Dioxane d8	15-462	1,000	32.0	1.0	32		4/19/2016

Refer to COA for specific compound concentrations for mixed standards.

SHEALY ENVIRONMENTAL SERVICES

SOM02.3 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

SEMIVOLATILE-sim

QC Summary
- Deuterated Monitoring Compound Recovery (Form 2)
- Matrix Spike/Matrix Spike Duplicate Recovery (Form 3) optional
- Laboratory Control Sample Recovery (Form 3) optional
- Method Blank Summary (Form 4)
- GC/MS Instrument Performance Check (Form 5)
- Internal Standard Area & RT Summary (Form 8)

Sample Data

Standards Data
- Initial Calibration (Form 6)
- Continuing Calibration Verification Data (Form 7)

Raw QC Data
- DFTPP Data
- Blank Data
- MS/MSD Data (optional)
- LCS Data (optional)

Miscellaneous Data
- Run Logs
- Standard Preparation Logs

SEMIVOLATILE-sim QC SUMMARY

Includes:

Deuterated Monitoring Compound Recovery (Form 2)

Matrix Spike/Matrix Spike Duplicate (Form 3A)

Laboratory Control Sample Recovery (From 3B)

Method Blank Summary (Form 4)

GC/MS Instrument Performance Check (Form 5)

Internal Standard Area and RT Summary (Form 8)

Deuterated Monitoring Compound Recovery

FORM 2A-OR
DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

AnalyticalMethod: SVOA SIM Level: LOW

Matrix: Water

EPA SAMPLE NO.	DMC1	DMC2	DMC3	DMC4	DMC5	DMC6			TOT OUT
F6R29	128 *	147 *	82	52	82	67			2
F6R32	3494 D	0 D	0 D	0 D	4969 D	2081 D			0
F6R32RE	4533 D	0 D	0 D	0 D	5449 D	0 D			0
F6R33	368 D	6825 D	608 D	12 D	65	16 D			0
F6R33RE	518 D	6738 D	594 D	12 D	98	15 D			0
F6R34	84	16603 D	10924 D	1023 D	121	4150 D			0
F6R35	71	100	112	74	80	82			0
F6R36	75	94	95	75	79	76			0
F6R30	159 D	1793 D	414 D	66	20 D	75			0
SBLK45	204 *	79	60	59	69	69			1

	QC LIMITS
DMC1 = 1,4-Dioxane-d8	40-110
DMC2 = Bis(2-Chloroethyl)ether-d8	25-120
DMC3 = Nitrobenzene-d5	20-125
DMC4 = 2,4-Dichlorophenol-d3	20-120
DMC5 = Fluoranthene-d10	30-130
DMC6 = 2-Methylnaphthalene-d10	30-130

* Values outside of contract required QC limits
D DMC diluted out

Method Blank Summary

FORM 4-OR
METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK45

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QQ92745-001

Instrument ID: Agilent MSD4 Lab File ID: 41231D07

Extraction Type: CLLE Date Extracted: 12/21/2015

GC Column(1): Zebron ZB-SV ID: 0.25 (mm) Date Analyzed: 12/31/2015

GC Column(2): ID: (mm) Time Analyzed: 14:53/14:53

Heated Purge:(Y/N) Cleanup:(Y/N) Cleanup Types:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE/TIME ANALYZED
F6R29	QL16010-001	41231D04	13:33/13:33
F6R32	QL16010-002	41231D05	13:59/13:59
F6R32RE	QL16010-002	41231D12	17:06/17:06
F6R33	QL16010-003	41231D06	14:26/14:26
F6R33RE	QL16010-003	41231D13	17:33/17:33
F6R34	QL16010-004	41231D08	15:19/15:19
F6R35	QL16010-005	41231D09	15:46/15:46
F6R36	QL16010-006	41231D10	16:13/16:13
F6R30	QL16010-009	41231D11	16:39/16:39

Instrument Performance Check

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPOM

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Lab File ID: 41218B01

Instrument ID: Agilent MSD4 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/18/2015 Injection Time: 1410

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	
68	Less than 2.0% of mass 69	() 1
69	Mass 69 relative abundance	
70	Less than 2.0% of mass 69	() 1
127	10.0 - 80.0% of mass 198	
197	Less than 2.0% of mass 198	
198	Base Peak, 100% relative abundance	
199	5.0 - 9.0% of mass 198	
275	10.0 - 60.0% of mass 198	
365	Greater than 1.0% of mass 198	
441	Present, but less than mass 443	
442	50.0 - 100% of mass 198	
443	15.0 - 24.0% of mass 442	() 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD.05ON	SSTD.05ON	41218B02	12/18/2015	1425
SSTD0.1ON	SSTD0.1ON	41218B03	12/18/2015	1451
SSTD0.2ON	SSTD0.2ON	41218B04	12/18/2015	1517
SSTD0.4ON	SSTD0.4ON	41218B05	12/18/2015	1544
SSTD0.8ON	SSTD0.8ON	41218B06	12/18/2015	1610
SSTD1.6ON	SSTD1.6ON	41218B07	12/18/2015	1636

Form 5-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

EPA SAMPLE NO.

DFTPPPE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Lab File ID: 41231D01

Instrument ID: Agilent MSD4 BFB/DFTPP: DFTPP

GC Column: Zebron ZB-SV ID: 0.25 (mm)

Injection Date: 12/31/2015 Injection Time: 1211

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	
68	Less than 2.0% of mass 69	() 1
69	Mass 69 relative abundance	
70	Less than 2.0% of mass 69	() 1
127	10.0 - 80.0% of mass 198	
197	Less than 2.0% of mass 198	
198	Base Peak, 100% relative abundance	
199	5.0 - 9.0% of mass 198	
275	10.0 - 60.0% of mass 198	
365	Greater than 1.0% of mass 198	
441	Present, but less than mass 443	
442	50.0 - 100% of mass 198	
443	15.0 - 24.0% of mass 442	() 2

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD0.2PF	SSTD0.2PF	41231D02	12/31/2015	1227
F6R29	QL16010-001	41231D04	12/31/2015	1333
F6R32	QL16010-002	41231D05	12/31/2015	1359
F6R33	QL16010-003	41231D06	12/31/2015	1426
SBLK45	QQ92745-001	41231D07	12/31/2015	1453
F6R34	QL16010-004	41231D08	12/31/2015	1519
F6R35	QL16010-005	41231D09	12/31/2015	1546
F6R36	QL16010-006	41231D10	12/31/2015	1613
F6R30	QL16010-009	41231D11	12/31/2015	1639
F6R32RE	QL16010-002	41231D12	12/31/2015	1706
F6R33RE	QL16010-003	41231D13	12/31/2015	1733
SSTD0.2PH	SSTD0.2PH	41231D16	12/31/2015	1853

Internal Standard & RT Summary

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: Low

EPA Sample No.: SSTD0.2PF Lab File ID (Standard): 41231D02

Instrument ID: Agilent MSD4 Init. Calib. Date(s): 12/18/2015 12/18/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Analyzed: 12/31/2015

Heated Purge: (Y/N) Time Analyzed: 1227

	IS1 AREA	RT	IS2 AREA	RT	IS3 AREA	RT
12 HOUR STD	348534	7.05	119553	8.53	281010	9.80
UPPER LIMIT	697068	7.55	239106	9.03	562020	10.30
LOWER LIMIT	174267	6.55	59777	8.03	140505	9.30
EPA SAMPLE NO.						
F6R29	485286	7.05	158415	8.53	333262	9.80
F6R32	7530980 *	7.06	344914 *	8.55	384725	9.81
F6R32RE	7239514 *	7.07	287833 *	8.55	374118	9.81
F6R33	3179762 *	7.06	168881	8.53	368012	9.80
F6R33RE	3154724 *	7.06	166631	8.53	349084	9.80
F6R34	395395	7.05	178735	8.53	390851	9.80
F6R35	342997	7.05	116867	8.53	286323	9.80
F6R36	368103	7.05	134017	8.53	304077	9.80
F6R30	424528	7.05	151287	8.53	370890	9.80
SBLK45	376093	7.05	127119	8.53	318799	9.80

IS1 = Naphthalene-d8
IS2 = Acenaphthene-d10
IS3 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% internal standard area

AREA LOWER LIMIT = 50% internal standard area

RT UPPER LIMIT = + 0.50 minutes of internal standard RT

RT LOWER LIMIT = - 0.50 minutes of internal standard RT

FORM 8A-OR
INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: Low

EPA Sample No.: SSTD0.2PF Lab File ID (Standard): 41231D02

Instrument ID: Agilent MSD4 Init. Calib. Date(s): 12/18/2015 12/18/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Analyzed: 12/31/2015

Heated Purge: (Y/N) Time Analyzed: 1227

	IS4 AREA	RT	IS5 AREA	RT		
12 HOUR STD	304867	12.75	252712	15.07		
UPPER LIMIT	609734	13.25	505424	15.57		
LOWER LIMIT	152434	12.25	126356	14.57		
EPA SAMPLE NO.						
F6R29	353767	12.75	293482	15.08		
F6R32	467616	12.75	369027	15.08		
F6R32RE	456557	12.75	325252	15.08		
F6R33	376891	12.75	351051	15.08		
F6R33RE	371513	12.75	322795	15.08		
F6R34	407183	12.75	393100	15.08		
F6R35	297250	12.75	245254	15.08		
F6R36	335521	12.75	284424	15.08		
F6R30	394141	12.75	344839	15.08		
SBLK45	351173	12.75	304789	15.07		

IS4 = Chrysene-d12
IS5 = Perylene-d12

AREA UPPER LIMIT = 200% internal standard area
AREA LOWER LIMIT = 50% internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

SEMIVOLATILE-sim SAMPLE DATA

Sample data shall be arranged in packets with the Volatile Analysis Data Sheet (Form 1A-OR), followed by the raw data for the VOA samples. These sample packets shall be placed in increasing EPA sample number order, considering both letters and numbers.

-Target Compound Results (Form 1A-OR)
-Quantitation Report showing calculation for TCL Analytes
-Reconstructed Total Ion Chromatograms
-Raw Spectra & background subtracted mass spectra of TCL Analytes identified in the sample
-Mass Spectra of organic compounds not listed in Exhibit C with associated best match spectra
-Printout of Manual Integrations

Spectra shall be labeled as follows:

EPA Sample ID number, Sample ID number, Lab file ID, Date & Time of analysis and Instrument ID.
The compound name must be clearly marked.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R29

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-001

Sample wt/vol: 1010 (g/mL) mL Lab File ID: 41231D04

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	0.066	JB
91-20-3	Naphthalene	0.021	J
91-57-6	2-Methylnaphthalene	0.050	U
208-96-8	Acenaphthylene	0.050	U
83-32-9	Acenaphthene	0.050	U
86-73-7	Fluorene	0.050	U
87-86-5	Pentachlorophenol	0.20	U
85-01-8	Phenanthrene	0.050	U
120-12-7	Anthracene	0.053	
206-44-0	Fluoranthene	0.050	U
129-00-0	Pyrene	0.050	U
56-55-3	Benzo(a)anthracene	0.0044	J
218-01-9	Chrysene	0.050	U
205-99-2	Benzo(b)fluoranthene	0.050	U
207-08-9	Benzo(k)fluoranthene	0.050	U
50-32-8	Benzo(a)pyrene	0.050	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.050	U
53-70-3	Dibenzo(a,h)anthracene	0.050	U
191-24-2	Benzo(g,h,i)perylene	0.050	U
132-64-9	Dibenzofuran	0.044	J
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.099	U
111-44-4	bis(2-Chloroethyl)ether	0.099	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.099	U
621-64-7	N-Nitrosodi-n-propylamine	0.050	U
67-72-1	Hexachloroethane	0.099	U
98-95-3	Nitrobenzene	0.099	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R29

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-001

Sample wt/vol: 1010 (g/mL) mL Lab File ID: 41231D04

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	0.099	U
88-06-2	2,4,6-Trichlorophenol	0.099	U
92-52-4	1,1'-Biphenyl	0.050	U
606-20-2	2,6-Dinitrotoluene	0.050	U
51-28-5	2,4-Dinitrophenol	0.99	U
121-14-2	2,4-Dinitrotoluene	0.050	U
534-52-1	4,6-Dinitro-2-methylphenol	0.099	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.099	U
1912-24-9	Atrazine	0.099	U
91-94-1	3,3'-Dichlorobenzidine	0.099	U

Report Date: 06-Jan-2016 10:12:40 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd4.i\4123115D.b\41231D04.D
Lab Sample ID: QL16010-001 Client Sample ID: F6R29
Injection Date: 31-Dec-2015 13:33:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd4.i
Sample Info: 4123115D, QL16010-001
Method: \\Organics\HH\chem\msd4.i\4123115D.b\Sim2544.m
Method Date: 04-Jan-2016 17:23:30 Quant Method: ISTD
Calib Date: 18-Dec-2015 16:36:30 Calib File: 41218B07.D
Sample Type: Client ALS Bottle: 2
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1010.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1: Zebron ZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: rbh Review Date: 31-Dec-2015 14:28:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 109 1,4-Dioxane-d8	96.0	3.753	3.744	0.009	12983	0.12762	0.12636	
108 1,4-Dioxane	88.0	3.779	3.770	0.009	7004	0.06709	0.06642	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.718	5.718	0.000	28204	0.14742	0.14596	
5 bis(2-Chloroethyl)Ether	93.0		5.753		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	70885	0.40000	0.39604	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.278		ND			
15 Hexachloroethane	117.0		6.424		ND			
$ 16 Nitrobenzene-d5	128.0	6.446	6.445	0.001	10889	0.08211	0.08129	e
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.909	6.917	-0.008	28878	0.10305	0.10203	
* 23 Naphthalene-d8	136.0	7.048	7.048	0.000	485286	0.40000	0.39604	
24 Naphthalene	128.0	7.066	7.066	0.000	26574	0.02111	0.02090	e
25 4-Chloroaniline	127.0		7.083		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.604	7.604	0.000	45120	0.06724	0.06658	
29 2-Methylnaphthalene	142.0		7.636		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.865		ND			
34 1,1'-Biphenyl	154.0		8.010		ND			
39 2,6-Dinitrotoluene	165.0		8.301		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	158415	0.40000	0.39604	
42 Acenaphthene	153.0		8.548		ND			
43 2,4-Dinitrophenol	184.0		8.548		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0	8.703	8.703	0.000	35180	0.04430	0.04386	eM
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.463		ND			
57 Pentachlorophenol	266.0		9.629		ND			
* 58 Phenanthrene-d10	188.0	9.796	9.796	0.000	333262	0.40000	0.39604	
59 Phenanthrene	178.0		9.817		ND			
60 Anthracene	178.0	9.859	9.859	0.000	47168	0.05349	0.05296	
$ 116 Flouranthene-d10	212.0	10.924	10.924	0.000	72260	0.08223	0.08142	
63 Fluoranthene	202.0		10.941		ND			
64 Pyrene	202.0		11.203		ND			
68 3,3'-Dichlorobenzidine	252.0		12.644		ND			
67 Benzo(a)anthracene	228.0	12.731	12.731	0.000	3972	0.004523	0.004478	e
* 69 Chrysene-d12	240.0	12.749	12.748	0.001	353767	0.40000	0.39604	
70 Chrysene	228.0		12.783		ND			
73 Benzo(b)fluoranthene	252.0		14.407		ND			
74 Benzo(k)fluoranthene	252.0		14.447		ND			
75 Benzo(a)pyrene	252.0		14.974		ND			
* 76 Perylene-d12	264.0	15.077	15.073	0.004	293482	0.40000	0.39604	
77 Indeno(1,2,3-cd)pyrene	276.0		17.305		ND			
78 Dibenzo(a,h)anthracene	278.0		17.323		ND			
79 Benzo(g,h,i)perylene	276.0		17.986		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

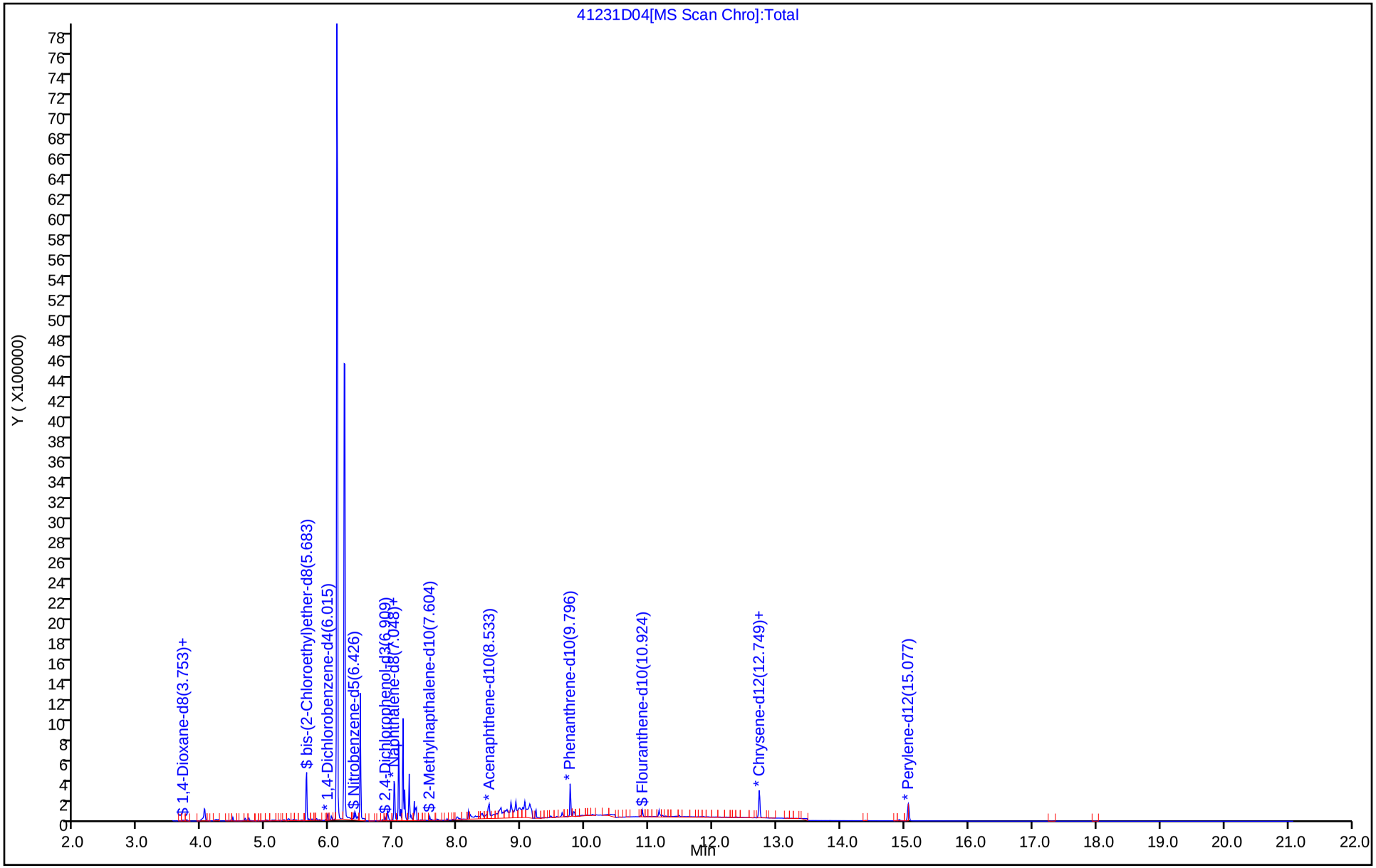
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 06-Jan-2016 10:12:40 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D04.D				
Injection Date:	31-Dec-2015 13:33:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R29	Lab ID:	QL16010-001		
Sample Info:	4123115D, QL16010-001				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

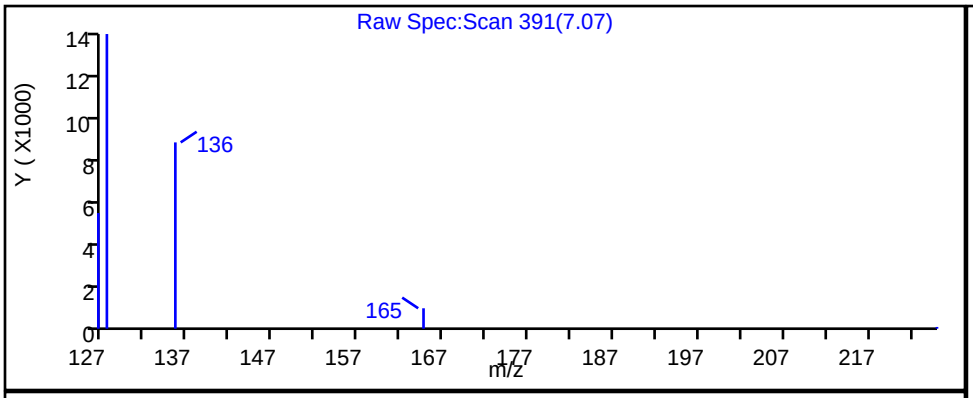


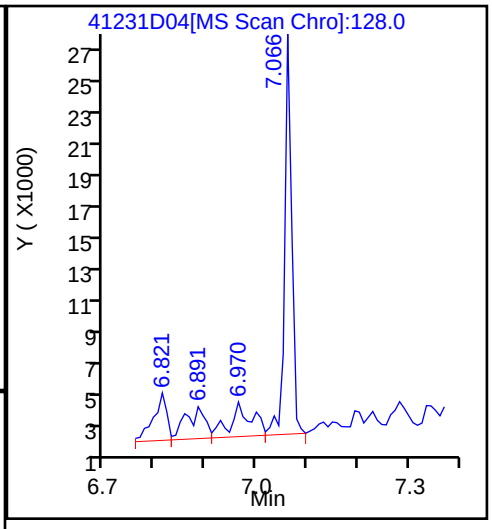
Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

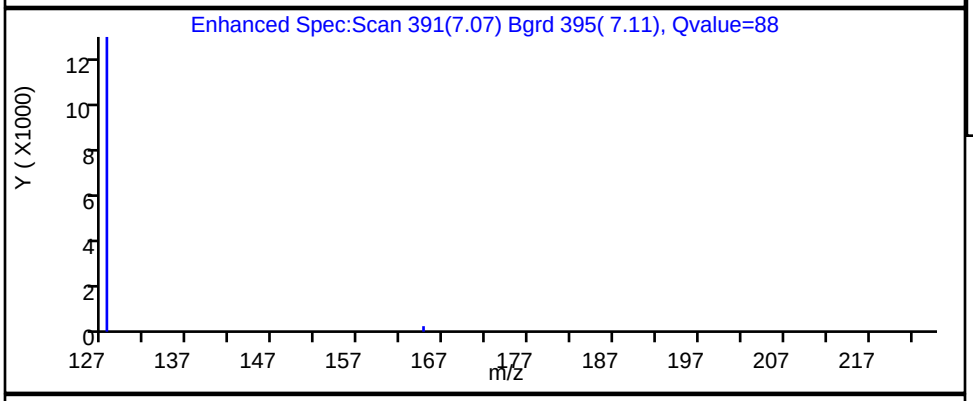
Shealy Environmental Services

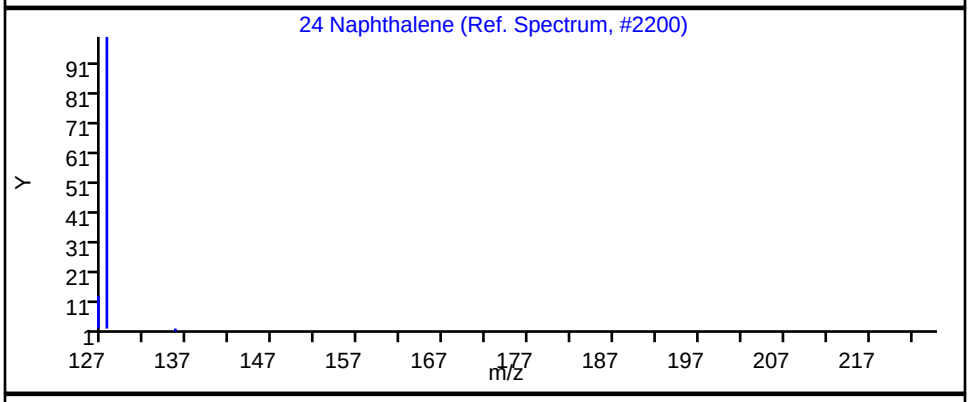
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D04.D		
Injection Date:	31-Dec-2015 13:33:30	Inst. ID:	msd4.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	4123115D, QL16010-001		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

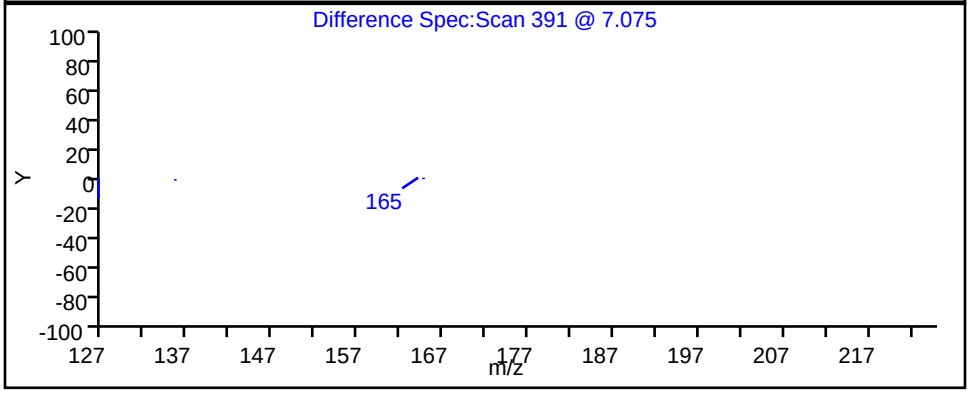
24 Naphthalene











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Shealy Environmental Services

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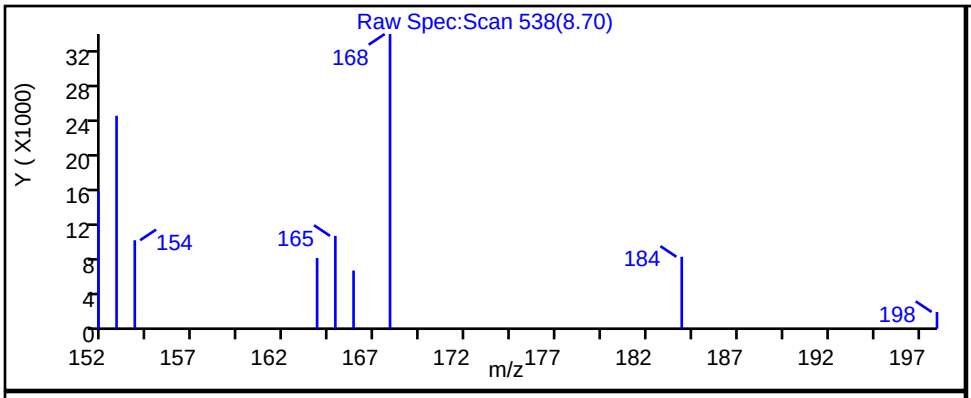
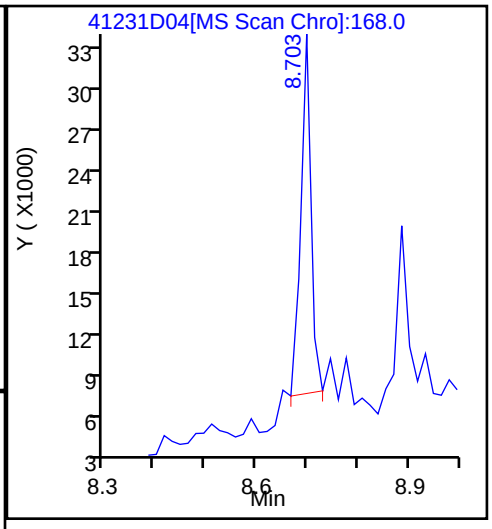
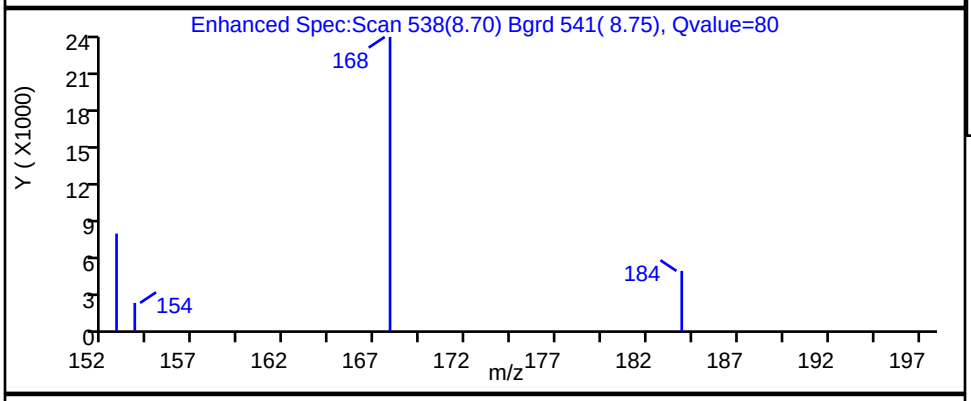
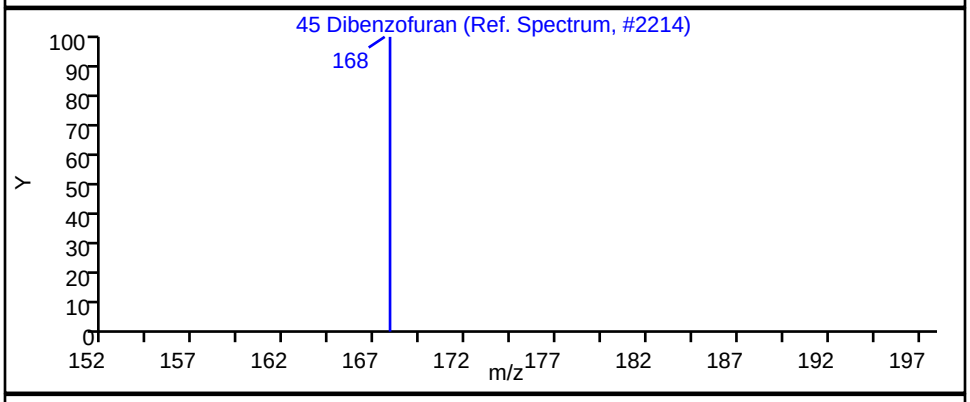
Injection Date:	31-Dec-2015 13:33:30	Inst. ID:	msd4.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	4123115D, QL16010-001		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

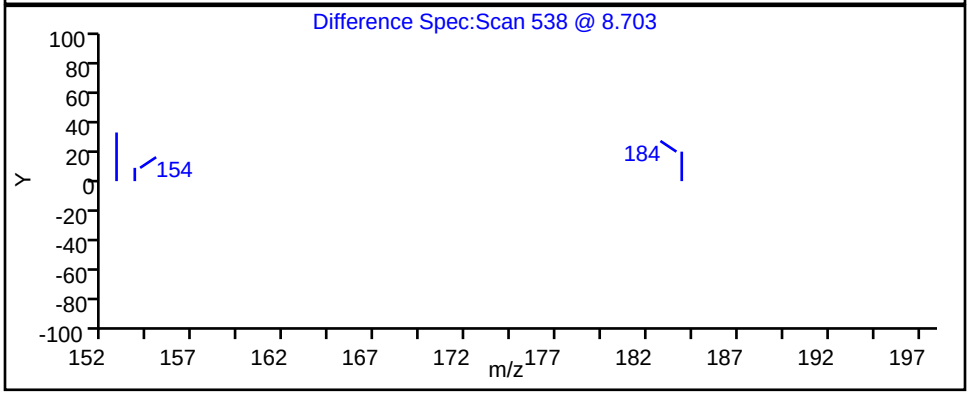
45 Dibenzofuran











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Shealy Environmental Services

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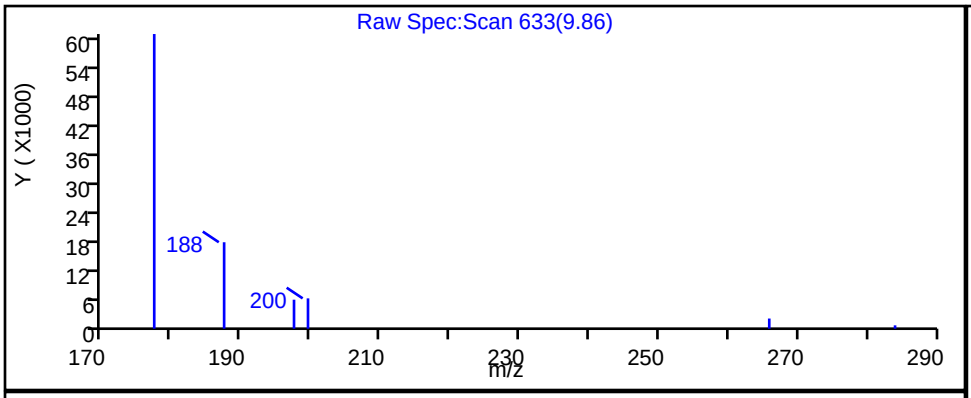
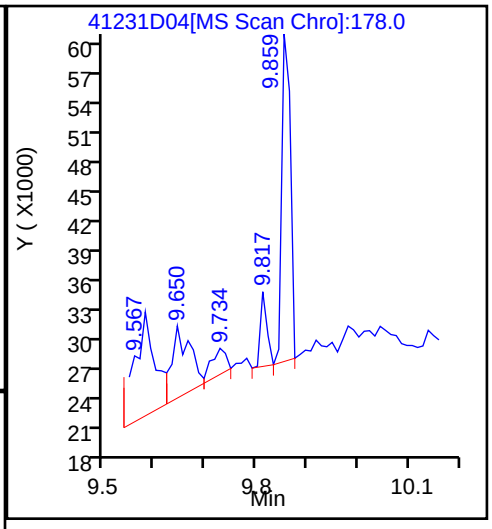
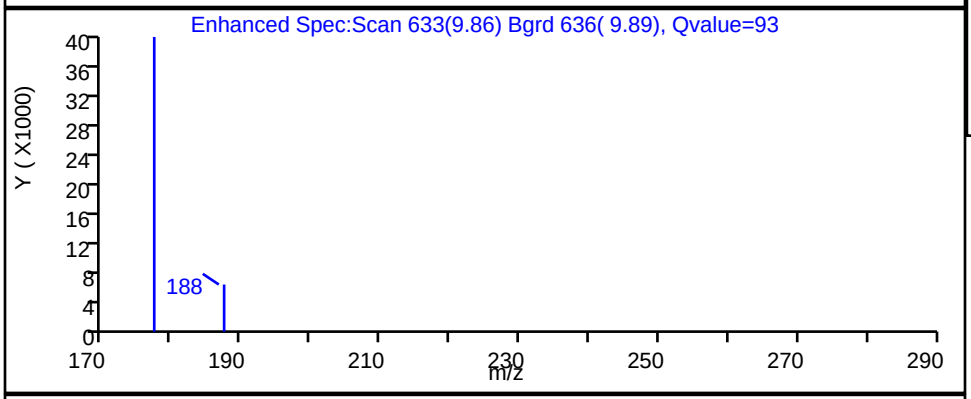
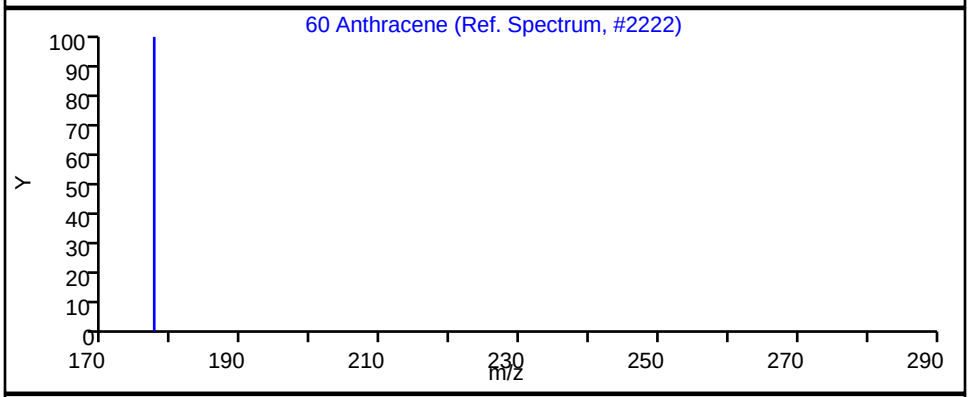
Injection Date:	31-Dec-2015 13:33:30	Inst. ID:	msd4.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	4123115D, QL16010-001		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

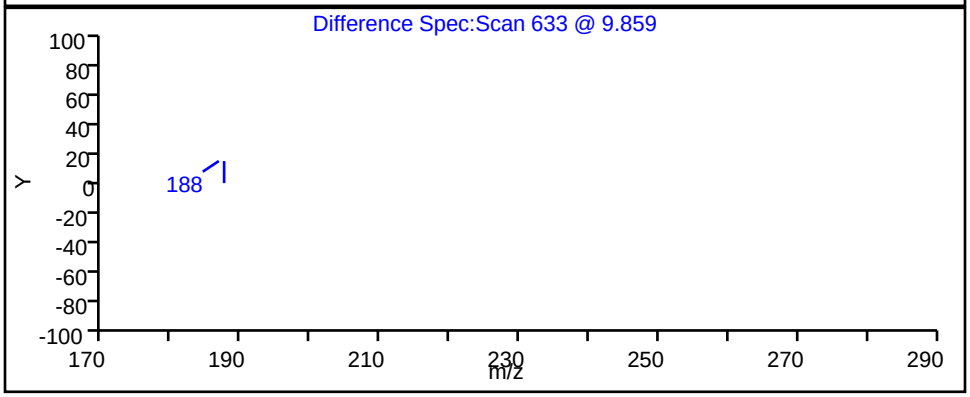
60 Anthracene









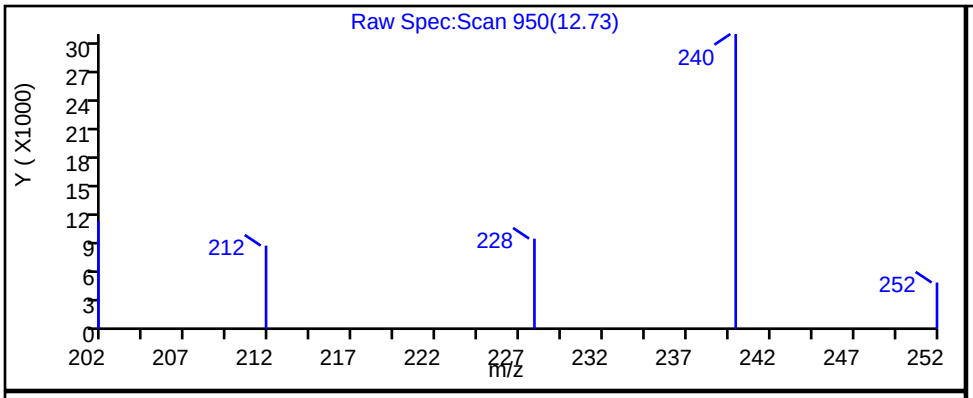


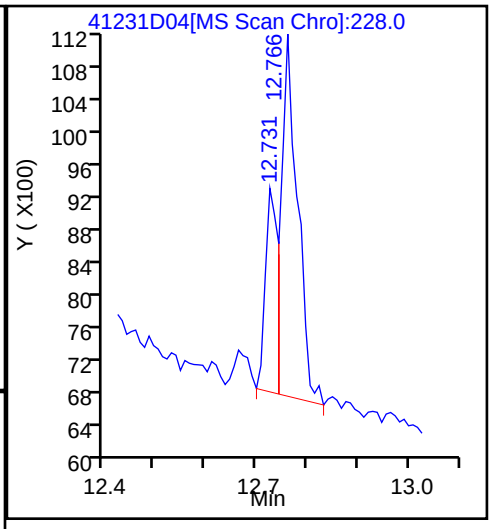
Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

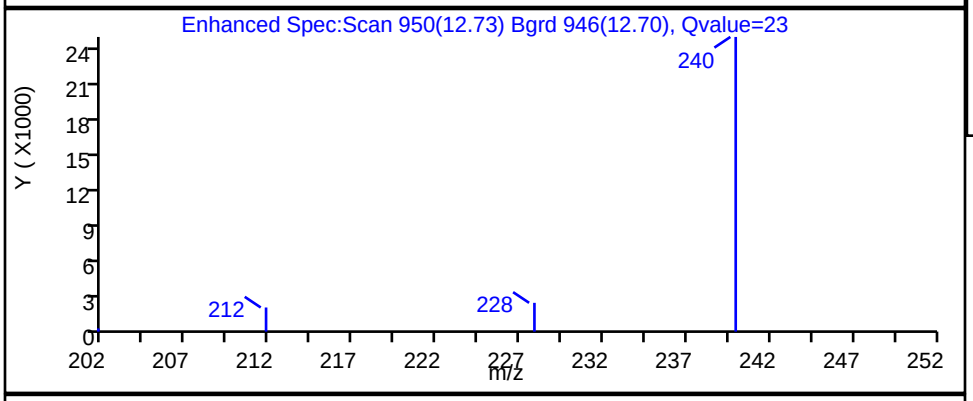
Shealy Environmental Services

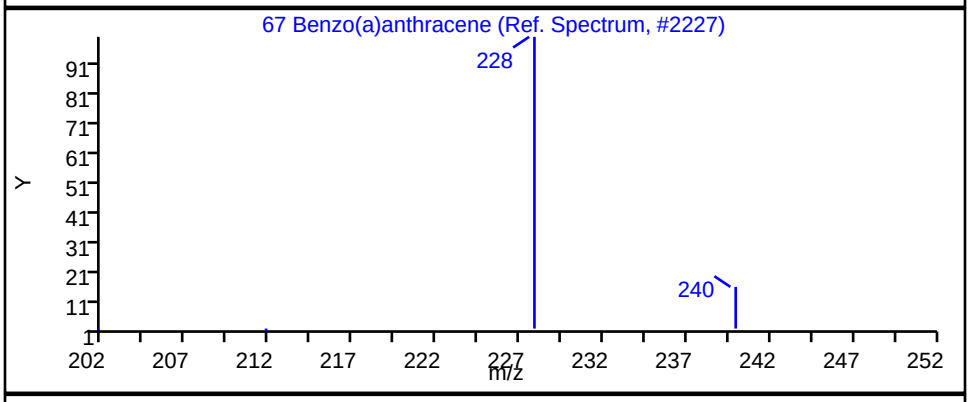
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D04.D		
Injection Date:	31-Dec-2015 13:33:30	Inst. ID:	msd4.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	4123115D, QL16010-001		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

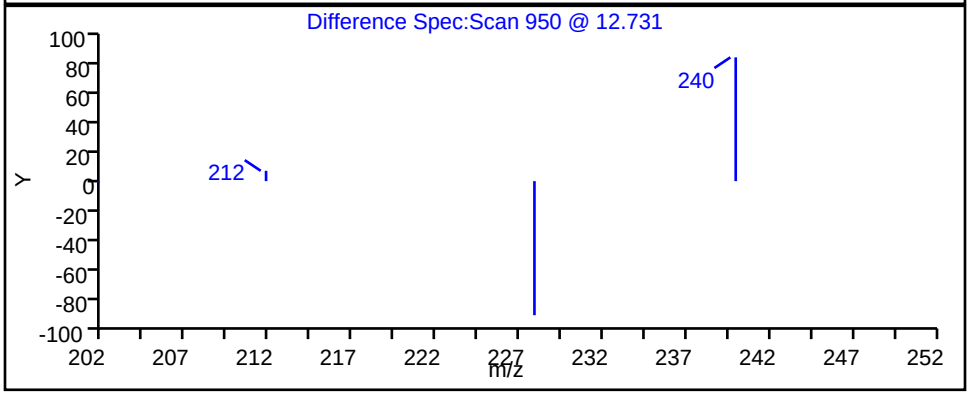
67 Benzo(a)anthracene









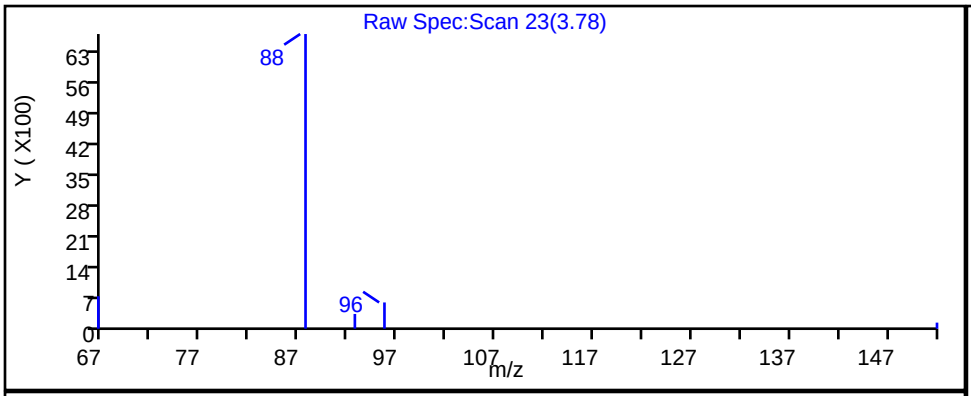


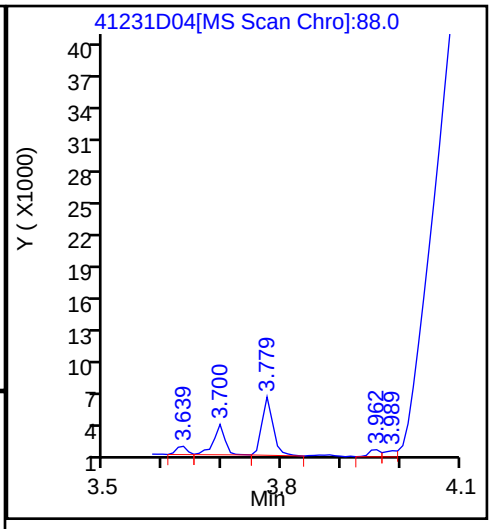
Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

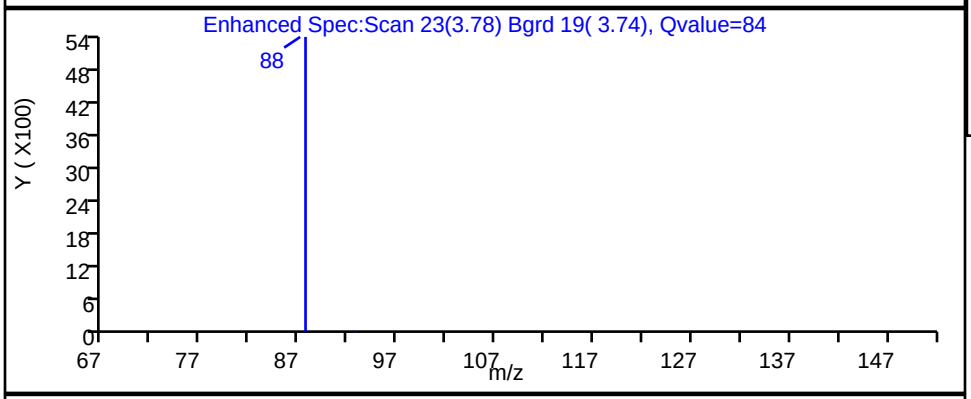
Shealy Environmental Services

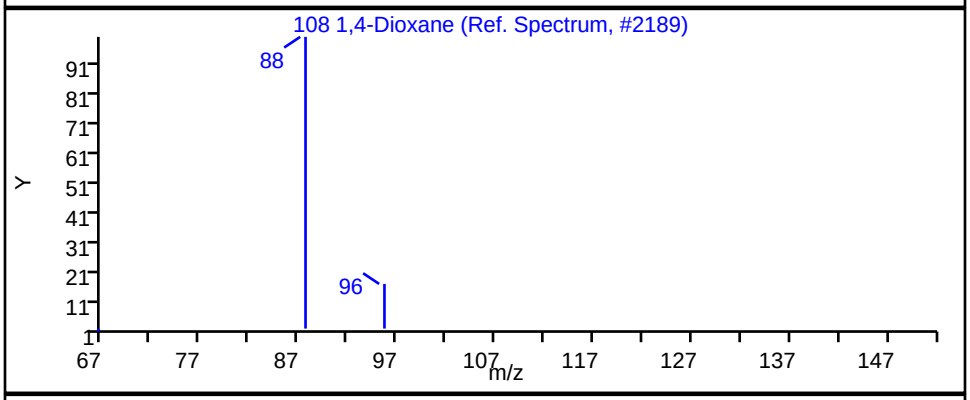
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D04.D		
Injection Date:	31-Dec-2015 13:33:30	Inst. ID:	msd4.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	4123115D, QL16010-001		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

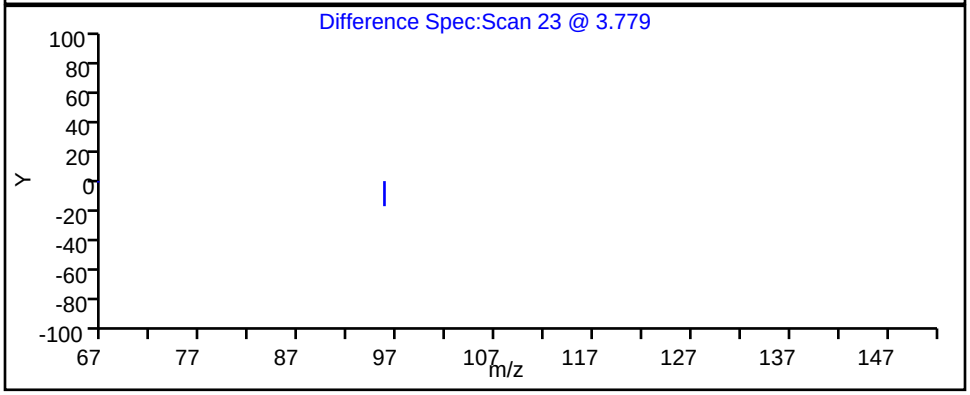
108 1,4-Dioxane











Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

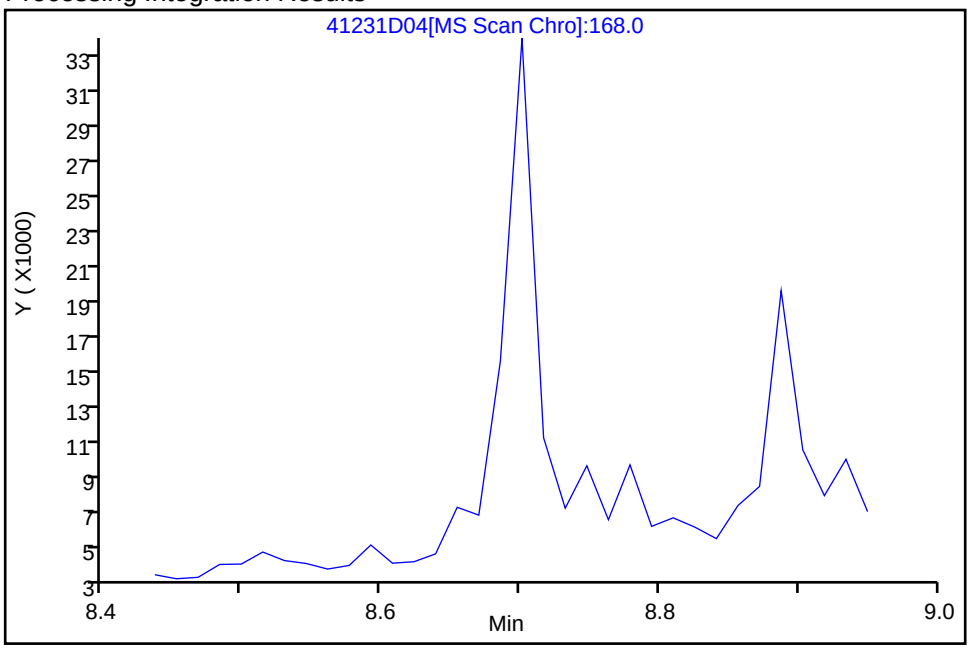
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D04.D		
Injection Date:	31-Dec-2015 13:33:30	Inst. ID:	msd4.i
Client ID:	F6R29	Lab ID:	QL16010-001
Sample Info:	4123115D, QL16010-001		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

45 Dibenzofuran, CAS: 132-64-9

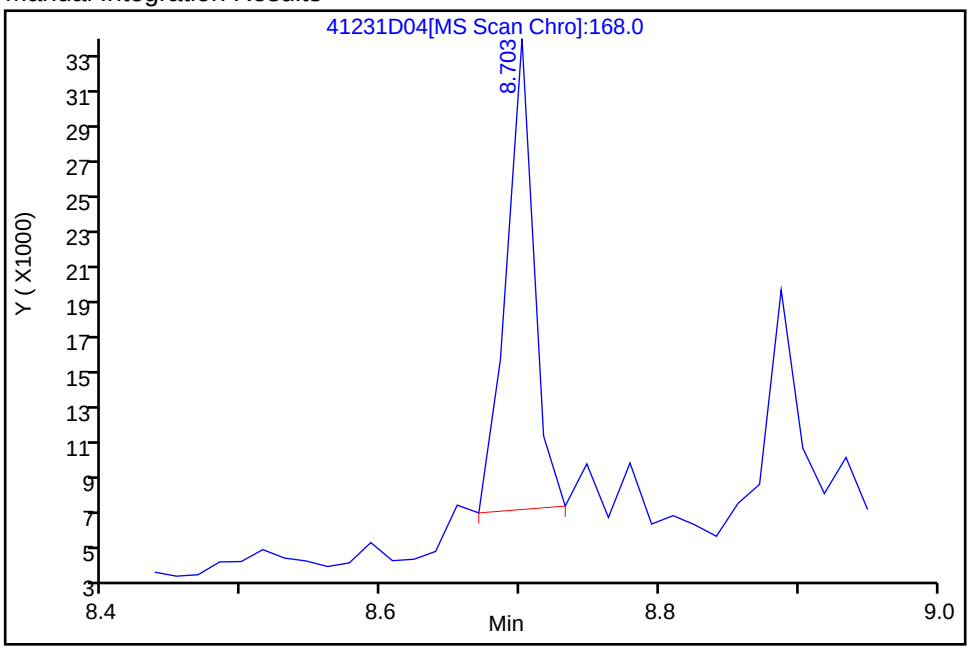
Not Detected
8.703

Processing Integration Results



Manual Integration Results

RT:	8.703
Area:	35180
Conc:	0.04386
Conc Units:	ug/L



Data Editor: rbh, 31-Dec-2015 14:28:30
Audit Action: Mint
Audit Reason: MA

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R30

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-009

Sample wt/vol: 1040 (g/mL) mL Lab File ID: 41231D11

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 10.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	0.96	U
91-20-3	Naphthalene	1.1	
91-57-6	2-Methylnaphthalene	1.4	
208-96-8	Acenaphthylene	0.48	U
83-32-9	Acenaphthene	0.48	U
86-73-7	Fluorene	0.48	U
87-86-5	Pentachlorophenol	1.9	U
85-01-8	Phenanthrene	0.59	
120-12-7	Anthracene	0.48	U
206-44-0	Fluoranthene	0.48	U
129-00-0	Pyrene	0.28	J
56-55-3	Benzo(a)anthracene	0.48	U
218-01-9	Chrysene	0.48	U
205-99-2	Benzo(b)fluoranthene	0.48	U
207-08-9	Benzo(k)fluoranthene	0.48	U
50-32-8	Benzo(a)pyrene	0.48	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.48	U
53-70-3	Dibenzo(a,h)anthracene	0.48	U
191-24-2	Benzo(g,h,i)perylene	0.48	U
132-64-9	Dibenzofuran	0.48	U
118-74-1	Hexachlorobenzene	0.48	U
87-68-3	Hexachlorobutadiene	0.96	U
111-44-4	bis(2-Chloroethyl)ether	0.96	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.96	U
621-64-7	N-Nitrosodi-n-propylamine	0.48	U
67-72-1	Hexachloroethane	0.96	U
98-95-3	Nitrobenzene	0.96	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R30

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-009

Sample wt/vol: 1040 (g/mL) mL Lab File ID: 41231D11

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 10.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	0.96	U
88-06-2	2,4,6-Trichlorophenol	0.96	U
92-52-4	1,1'-Biphenyl	0.48	U
606-20-2	2,6-Dinitrotoluene	0.48	U
51-28-5	2,4-Dinitrophenol	9.6	U
121-14-2	2,4-Dinitrotoluene	0.48	U
534-52-1	4,6-Dinitro-2-methylphenol	0.96	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.96	U
1912-24-9	Atrazine	0.96	U
91-94-1	3,3'-Dichlorobenzidine	0.96	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D11.D		
Lab Sample ID:	QL16010-009	Client Sample ID:	F6R30
Injection Date:	31-Dec-2015 16:39:30	Dil. Factor:	10.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4123115D, QL16010-009		
Misc. Info:	10X		
Method:	\\Organics\HH\chem\msd4.i\4123115D.b\Sim2544.m		
Method Date:	04-Jan-2016 17:23:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	8
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	10.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1040.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	04-Jan-2016 17:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 109 1,4-Dioxane-d8	96.0	3.744	3.744	0.000	1816	0.01593	0.15313	eR
108 1,4-Dioxane	88.0		3.770		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.683	5.718	-0.035	38447	0.17927	1.7237	R
5 bis(2-Chloroethyl)Ether	93.0		5.753		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	79459	0.40000	3.8462	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.278		ND			
15 Hexachloroethane	117.0		6.424		ND			
$ 16 Nitrobenzene-d5	128.0	6.446	6.445	0.001	4805	0.04142	0.39823	eR
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.909	6.917	-0.008	3247	0.01324	0.12735	e
* 23 Naphthalene-d8	136.0	7.048	7.048	0.000	424528	0.40000	3.8462	
24 Naphthalene	128.0	7.066	7.066	0.000	122671	0.11142	1.0713	
25 4-Chloroaniline	127.0		7.083		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.605	7.604	0.000	4408	0.007510	0.07221	e
29 2-Methylnaphthalene	142.0	7.636	7.636	0.000	95215	0.14646	1.4083	
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.865		ND			
34 1,1'-Biphenyl	154.0		8.010		ND			
39 2,6-Dinitrotoluene	165.0		8.301		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	151287	0.40000	3.8462	
42 Acenaphthene	153.0		8.548		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
43 2,4-Dinitrophenol	184.0		8.548		ND			
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0		8.703		ND			
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.463		ND			
57 Pentachlorophenol	266.0		9.629		ND			
* 58 Phenanthrene-d10	188.0	9.796	9.796	0.000	370890	0.40000	3.8462	
59 Phenanthrene	178.0	9.817	9.817	0.000	61924	0.06131	0.58947	
60 Anthracene	178.0		9.859		ND			
$ 116 Flouranthene-d10	212.0	10.924	10.924	0.000	1982	0.002027	0.01949	e
63 Fluoranthene	202.0		10.941		ND			
64 Pyrene	202.0	11.203	11.203	0.000	31050	0.02873	0.27627	e
68 3,3'-Dichlorobenzidine	252.0		12.644		ND			
67 Benzo(a)anthracene	228.0		12.731		ND			
* 69 Chrysene-d12	240.0	12.749	12.748	0.001	394141	0.40000	3.8462	
70 Chrysene	228.0		12.783		ND			
73 Benzo(b)fluoranthene	252.0		14.407		ND			
74 Benzo(k)fluoranthene	252.0		14.447		ND			
75 Benzo(a)pyrene	252.0		14.974		ND			
* 76 Perylene-d12	264.0	15.077	15.073	0.004	344839	0.40000	3.8462	
77 Indeno(1,2,3-cd)pyrene	276.0		17.305		ND			
78 Dibenzo(a,h)anthracene	278.0		17.323		ND			
79 Benzo(g,h,i)perylene	276.0		17.986		ND			

QC Flag Legend

Processing Flags

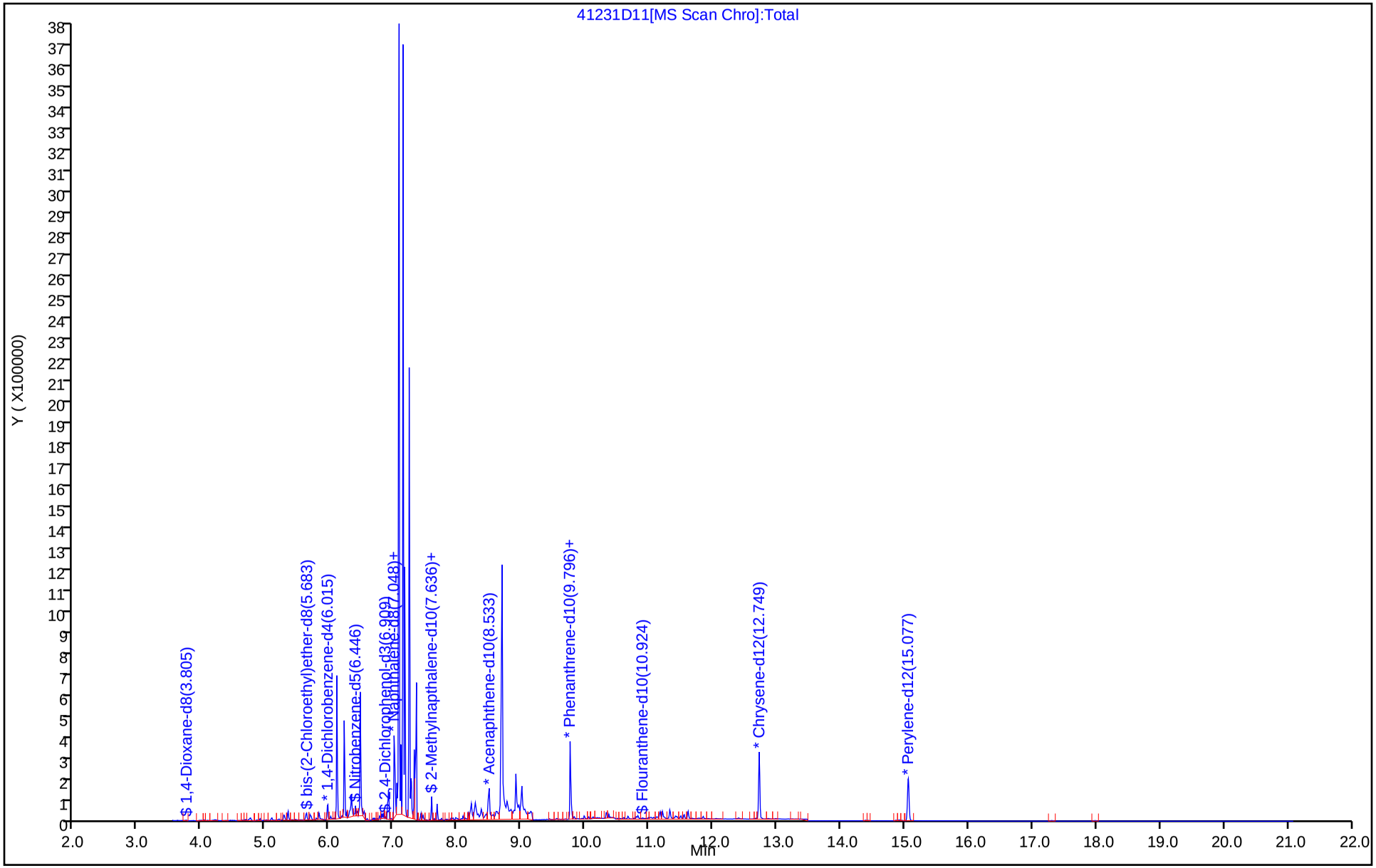
e - Compound Concentration Below Quantitation Limit

R - Spike/Surrogte Fails %Recovery Test

Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D11.D				
Injection Date:	31-Dec-2015 16:39:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R30	Lab ID:	QL16010-009		
Sample Info:	4123115D, QL16010-009				
Injection Vol.	2.00 1	Dil. Factor:	10.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

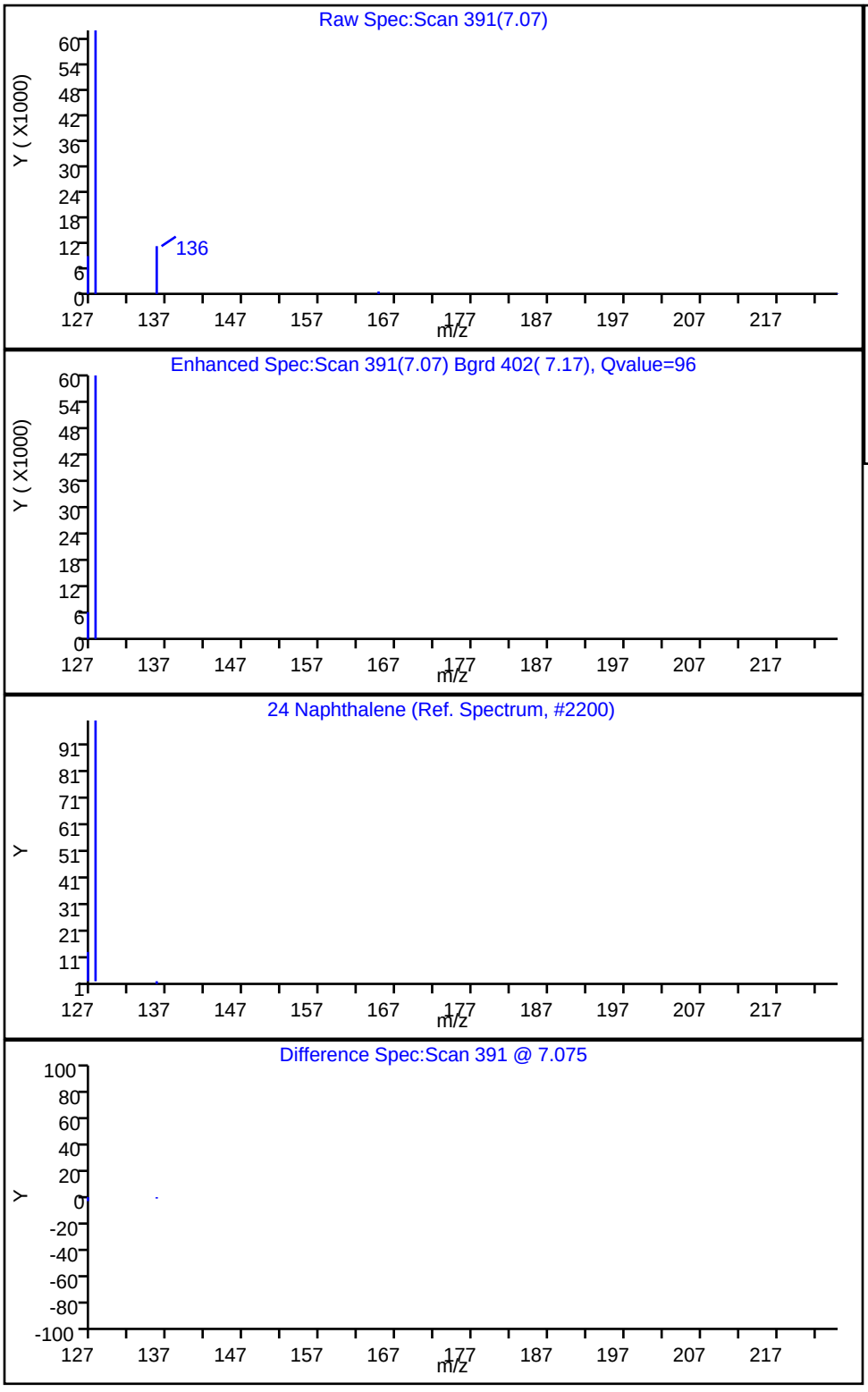


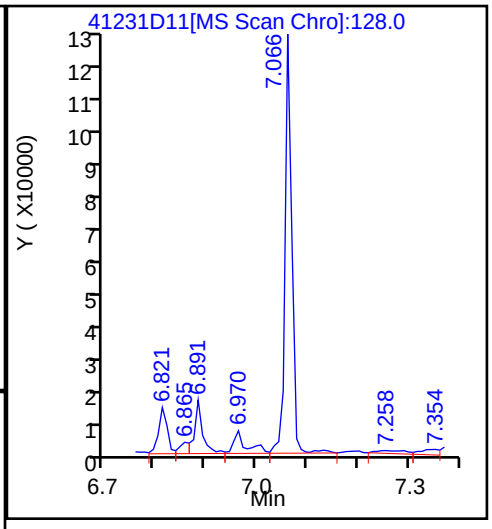
Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D11.D		
Injection Date:	31-Dec-2015 16:39:30	Inst. ID:	msd4.i
Client ID:	F6R30	Lab ID:	QL16010-009
Sample Info:	4123115D, QL16010-009		
Injection Vol.	2.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

24 Naphthalene



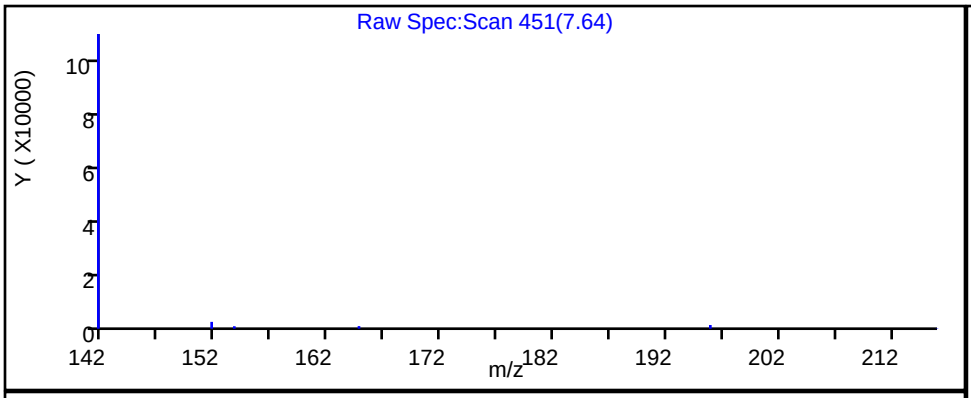


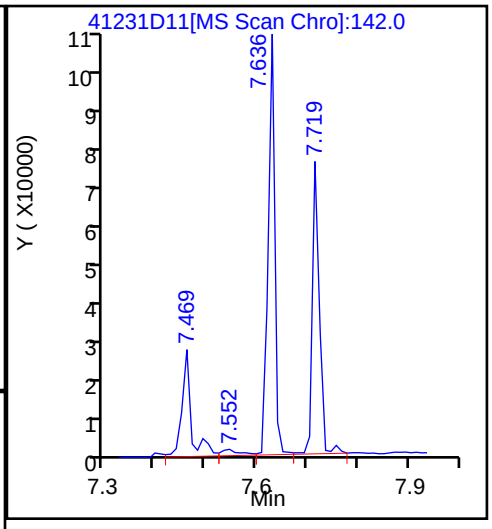
Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

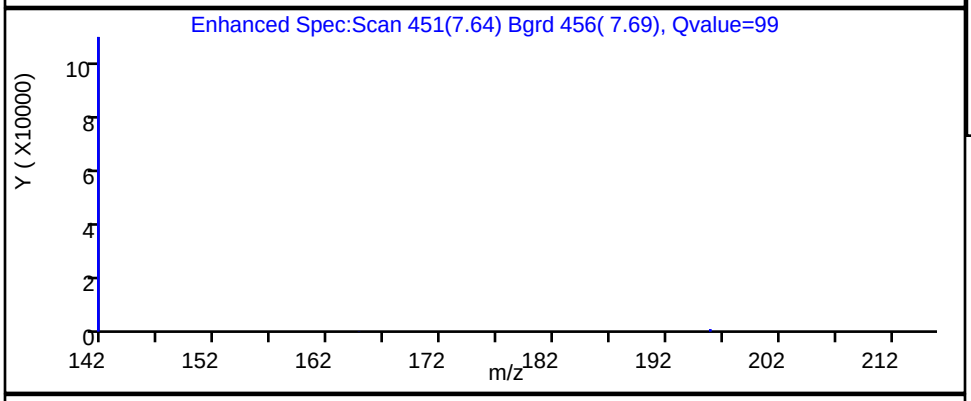
Shealy Environmental Services

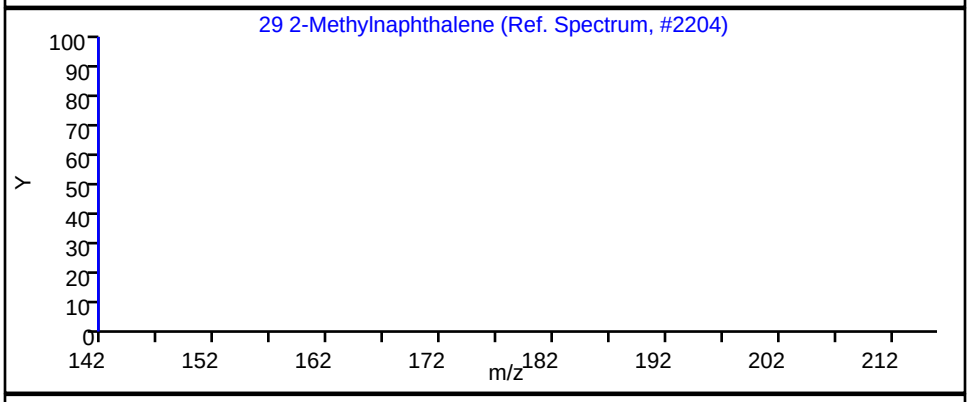
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D11.D		
Injection Date:	31-Dec-2015 16:39:30	Inst. ID:	msd4.i
Client ID:	F6R30	Lab ID:	QL16010-009
Sample Info:	4123115D, QL16010-009		
Injection Vol.	2.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

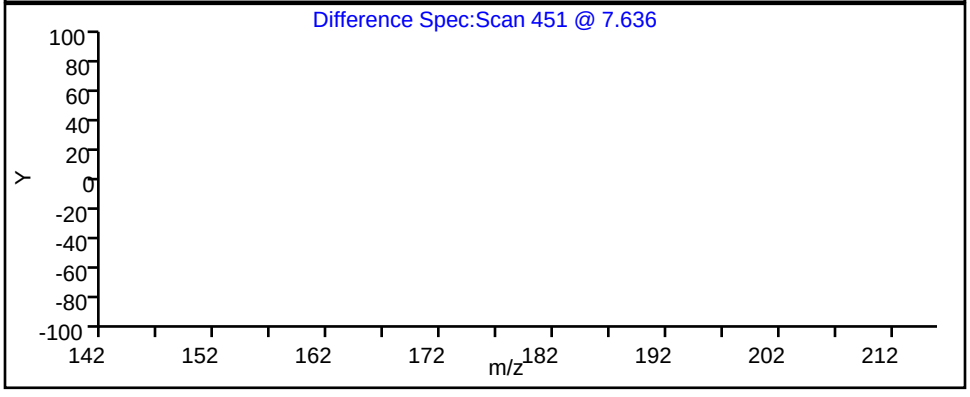
29 2-Methylnaphthalene









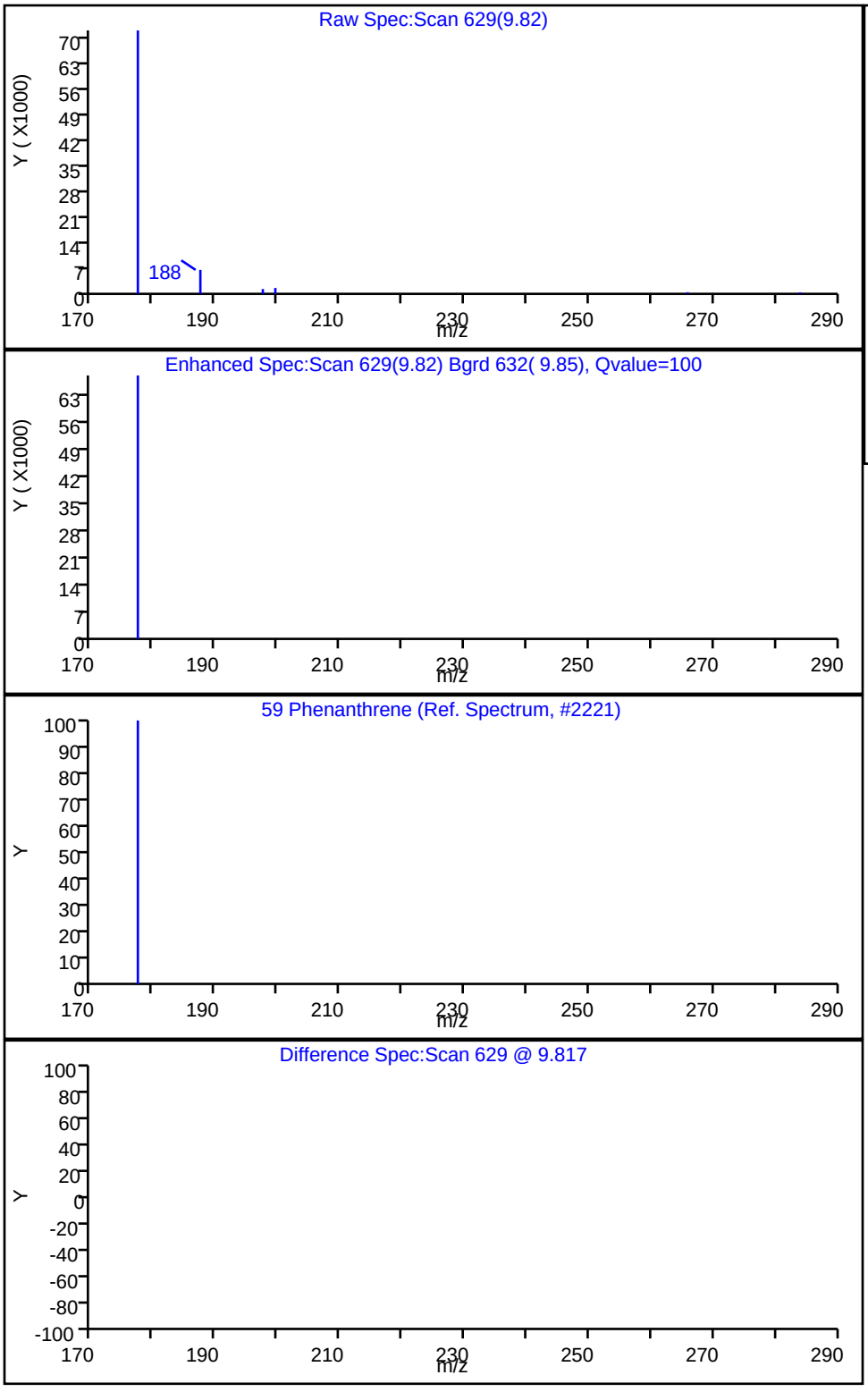


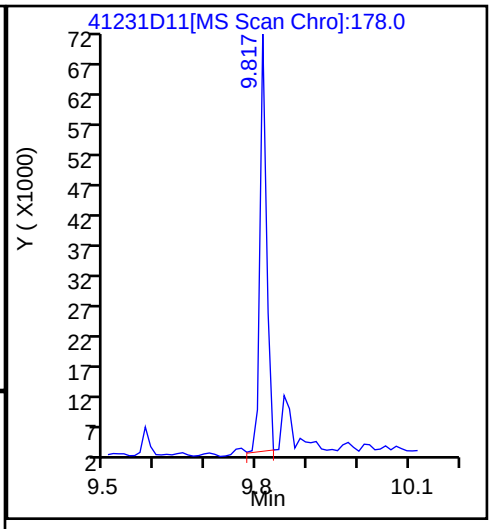
Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D11.D		
Injection Date:	31-Dec-2015 16:39:30	Inst. ID:	msd4.i
Client ID:	F6R30	Lab ID:	QL16010-009
Sample Info:	4123115D, QL16010-009		
Injection Vol.	2.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

59 Phenanthrene



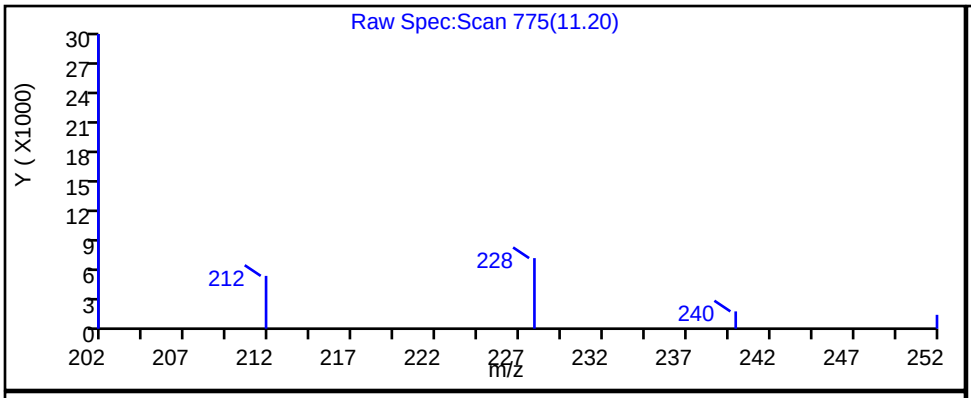


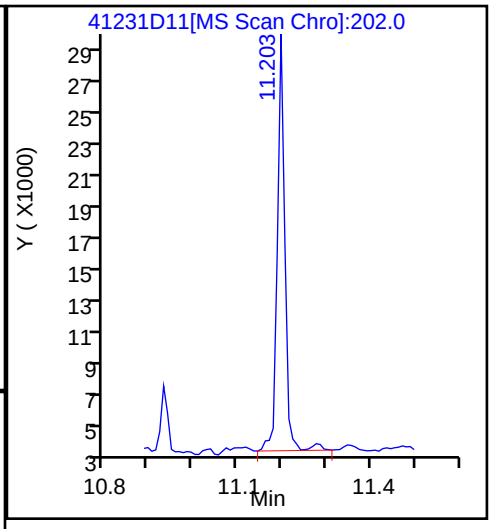
Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

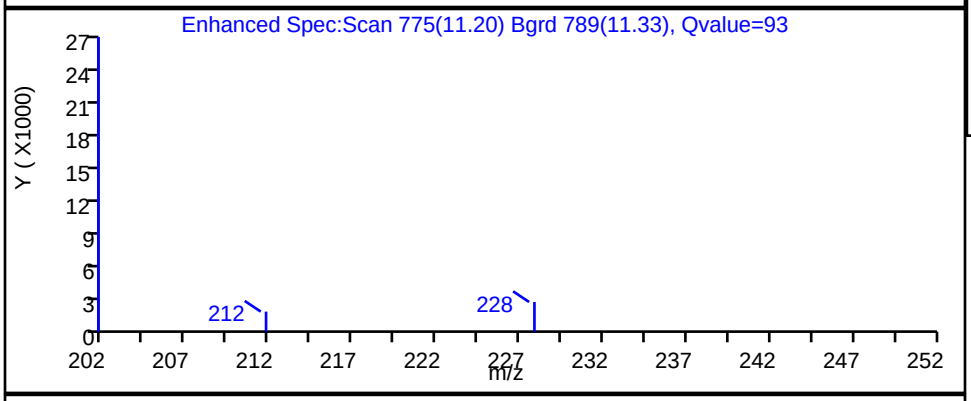
Shealy Environmental Services

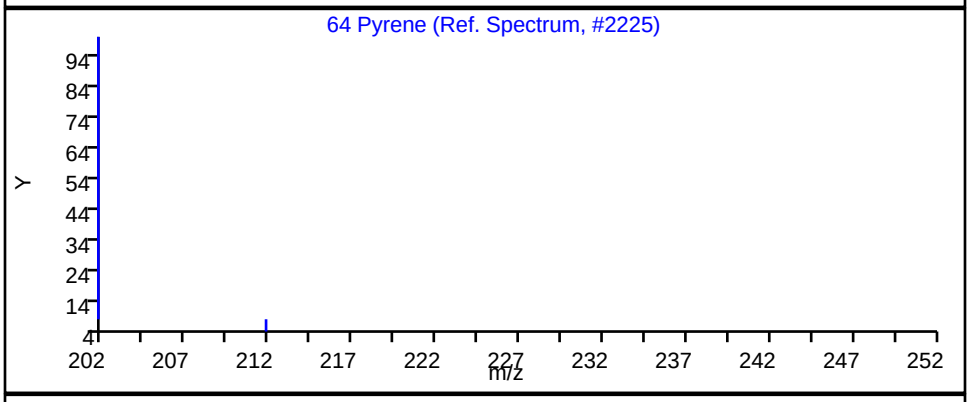
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D11.D		
Injection Date:	31-Dec-2015 16:39:30	Inst. ID:	msd4.i
Client ID:	F6R30	Lab ID:	QL16010-009
Sample Info:	4123115D, QL16010-009		
Injection Vol.	2.00 1	Dil. Factor:	10.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

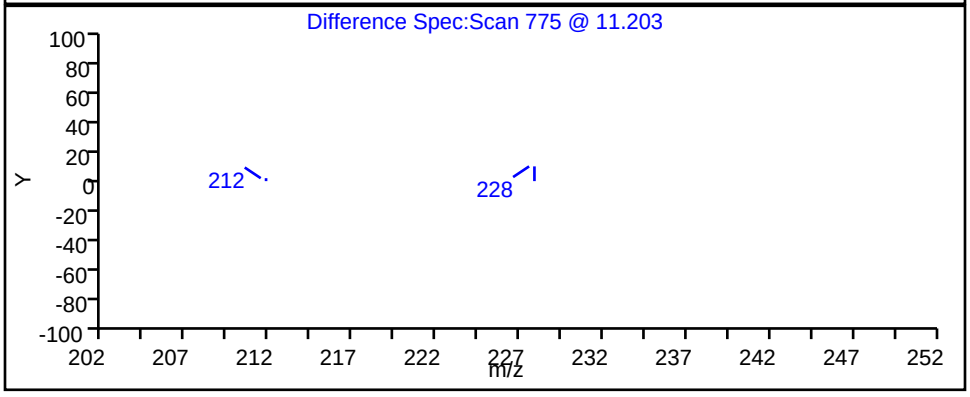
64 Pyrene











FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 800 (g/mL) mL Lab File ID: 41231D05

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 15000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 20.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	38	U
91-20-3	Naphthalene	19	U
91-57-6	2-Methylnaphthalene	19	U
208-96-8	Acenaphthylene	19	U
83-32-9	Acenaphthene	19	U
86-73-7	Fluorene	19	U
87-86-5	Pentachlorophenol	75	U
85-01-8	Phenanthrene	19	U
120-12-7	Anthracene	19	U
206-44-0	Fluoranthene	19	U
129-00-0	Pyrene	19	U
56-55-3	Benzo(a)anthracene	19	U
218-01-9	Chrysene	19	U
205-99-2	Benzo(b)fluoranthene	19	U
207-08-9	Benzo(k)fluoranthene	19	U
50-32-8	Benzo(a)pyrene	19	U
193-39-5	Indeno(1,2,3-cd)pyrene	19	U
53-70-3	Dibenzo(a,h)anthracene	19	U
191-24-2	Benzo(g,h,i)perylene	19	U
132-64-9	Dibenzofuran	19	U
118-74-1	Hexachlorobenzene	19	U
87-68-3	Hexachlorobutadiene	38	U
111-44-4	bis(2-Chloroethyl)ether	38	U
108-60-1	2,2'-Oxybis(1-chloropropane)	38	U
621-64-7	N-Nitrosodi-n-propylamine	19	U
67-72-1	Hexachloroethane	38	U
98-95-3	Nitrobenzene	38	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 800 (g/mL) mL Lab File ID: 41231D05

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 15000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 20.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	38	U
88-06-2	2,4,6-Trichlorophenol	38	U
92-52-4	1,1'-Biphenyl	19	U
606-20-2	2,6-Dinitrotoluene	19	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	19	U
534-52-1	4,6-Dinitro-2-methylphenol	38	U
95-94-3	1,2,4,5-Tetrachlorobenzene	38	U
1912-24-9	Atrazine	38	U
91-94-1	3,3'-Dichlorobenzidine	38	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D05.D		
Lab Sample ID:	QL16010-002	Client Sample ID:	F6R32
Injection Date:	31-Dec-2015 13:59:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4123115D, QL16010-002		
Misc. Info:	20X		
Method:	\\Organics\HH\chem\msd4.i\4123115D.b\Sim2544.m		
Method Date:	04-Jan-2016 17:23:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	15000	Volume of final extract (uL)
Vo	800.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	04-Jan-2016 17:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 109 1,4-Dioxane-d8	96.0	3.727	3.744	-0.017	1427	0.01165	4.3672	eR
108 1,4-Dioxane	88.0		3.770		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.718		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.753		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	85382	0.40000	150.00	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.278		ND			
15 Hexachloroethane	117.0		6.424		ND			
$ 16 Nitrobenzene-d5	128.0		6.445		ND			
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0		6.917		ND			
* 23 Naphthalene-d8	136.0	7.057	7.048	0.009	7530980	0.40000	150.00	I
24 Naphthalene	128.0		7.066		ND			
25 4-Chloroaniline	127.0		7.083		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.605	7.604	0.000	72216	0.006935	2.6008	eR
29 2-Methylnaphthalene	142.0		7.636		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.865		ND			
34 1,1'-Biphenyl	154.0		8.010		ND			
39 2,6-Dinitrotoluene	165.0		8.301		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.548	8.533	0.015	344914	0.40000	150.00	I
42 Acenaphthene	153.0		8.548		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
43 2,4-Dinitrophenol	184.0		8.548		ND			
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0		8.703		ND			
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.463		ND			
57 Pentachlorophenol	266.0		9.629		ND			
* 58 Phenanthrene-d10	188.0	9.807	9.796	0.011	384725	0.40000	150.00	
59 Phenanthrene	178.0		9.817		ND			
60 Anthracene	178.0		9.859		ND			
$ 116 Flouranthene-d10	212.0	10.924	10.924	0.000	16803	0.01656	6.2115	eR
63 Fluoranthene	202.0		10.941		ND			
64 Pyrene	202.0		11.203		ND			
68 3,3'-Dichlorobenzidine	252.0		12.644		ND			
67 Benzo(a)anthracene	228.0		12.731		ND			
* 69 Chrysene-d12	240.0	12.749	12.748	0.001	467616	0.40000	150.00	
70 Chrysene	228.0		12.783		ND			
73 Benzo(b)fluoranthene	252.0		14.407		ND			
74 Benzo(k)fluoranthene	252.0		14.447		ND			
75 Benzo(a)pyrene	252.0		14.974		ND			
* 76 Perylene-d12	264.0	15.077	15.073	0.004	369027	0.40000	150.00	
77 Indeno(1,2,3-cd)pyrene	276.0		17.305		ND			
78 Dibenzo(a,h)anthracene	278.0		17.323		ND			
79 Benzo(g,h,i)perylene	276.0		17.986		ND			

QC Flag Legend

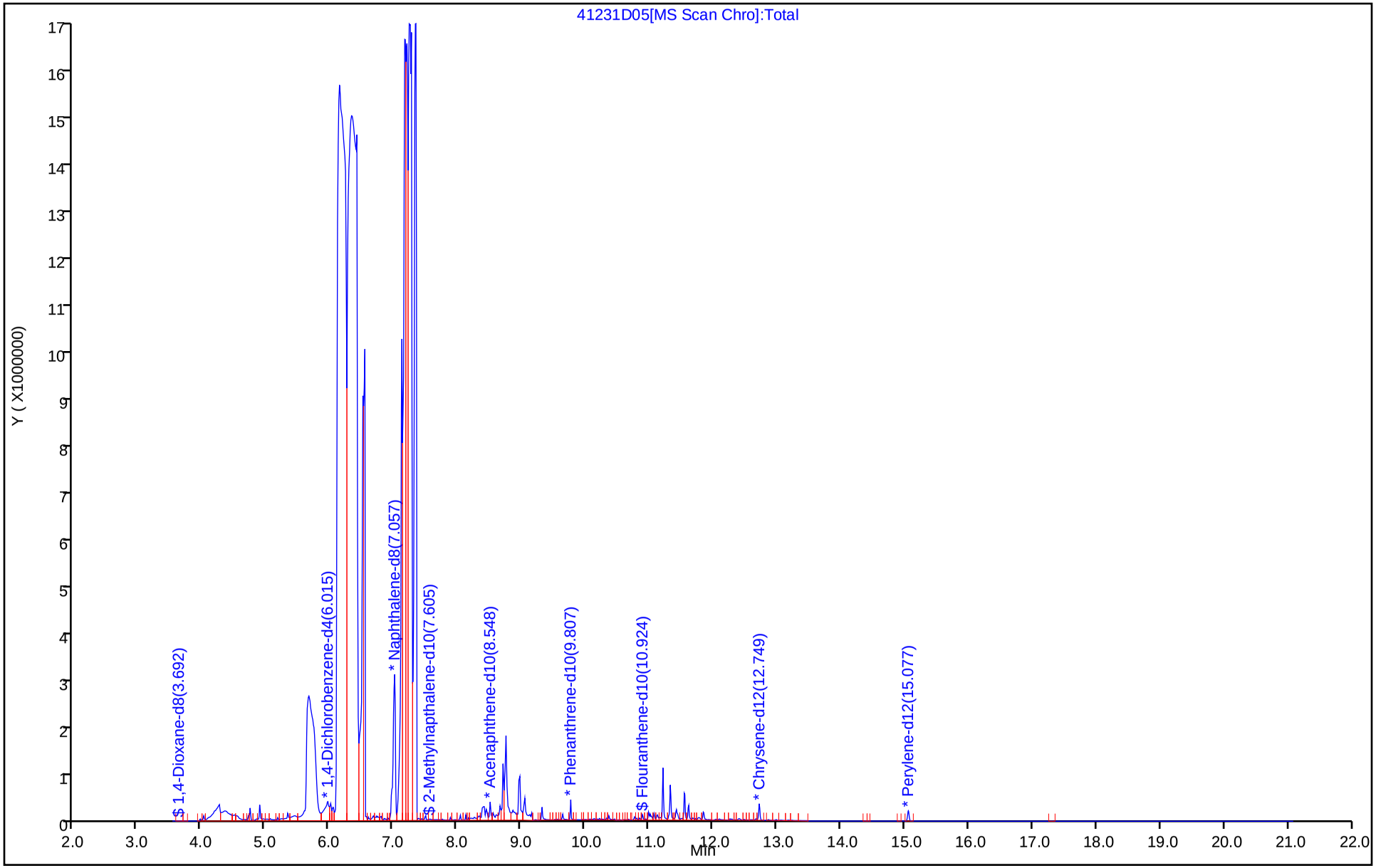
Processing Flags

e - Compound Concentration Below Quantitation Limit
R - Spike/Surrogte Fails %Recovery Test
I - Istd Fails Area Recovery Test

Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D05.D				
Injection Date:	31-Dec-2015 13:59:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R32	Lab ID:	QL16010-002		
Sample Info:	4123115D, QL16010-002				
Injection Vol.	2.00 1	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32RE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-002

Sample wt/vol: 800 (g/mL) mL Lab File ID: 41231D12

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 15000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 20.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	38	U
91-20-3	Naphthalene	19	U
91-57-6	2-Methylnaphthalene	19	U
208-96-8	Acenaphthylene	19	U
83-32-9	Acenaphthene	19	U
86-73-7	Fluorene	19	U
87-86-5	Pentachlorophenol	75	U
85-01-8	Phenanthrene	19	U
120-12-7	Anthracene	19	U
206-44-0	Fluoranthene	19	U
129-00-0	Pyrene	19	U
56-55-3	Benzo(a)anthracene	19	U
218-01-9	Chrysene	19	U
205-99-2	Benzo(b)fluoranthene	19	U
207-08-9	Benzo(k)fluoranthene	19	U
50-32-8	Benzo(a)pyrene	19	U
193-39-5	Indeno(1,2,3-cd)pyrene	19	U
53-70-3	Dibenzo(a,h)anthracene	19	U
191-24-2	Benzo(g,h,i)perylene	19	U
132-64-9	Dibenzofuran	19	U
118-74-1	Hexachlorobenzene	19	U
87-68-3	Hexachlorobutadiene	38	U
111-44-4	bis(2-Chloroethyl)ether	38	U
108-60-1	2,2'-Oxybis(1-chloropropane)	38	U
621-64-7	N-Nitrosodi-n-propylamine	19	U
67-72-1	Hexachloroethane	38	U
98-95-3	Nitrobenzene	38	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R32RE

Lab Name: Shealy Environmental Services, Inc.
Contract: EP-W-14035
Lab Code: EQI
Case No.: 45671
MA No.: 2544.1
SDG No.: F6R29
Analytical Method: SVOA SIM
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-002
Sample wt/vol: 800 (g/mL) mL
Lab File ID: 41231D12
% Solids:
Date Received: 12/16/2015
GC Column: Zebron ZB-SV ID: 0.25 (mm)
Date Extracted: 12/21/2015
GC Column: ID: (mm)
Date Analyzed: 12/31/2015
Extract Concentrated: (Y/N)
Extract Volume: 15000 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: CLLE
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: 2
Dilution Factor: 20.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	38	U
88-06-2	2,4,6-Trichlorophenol	38	U
92-52-4	1,1'-Biphenyl	19	U
606-20-2	2,6-Dinitrotoluene	19	U
51-28-5	2,4-Dinitrophenol	380	U
121-14-2	2,4-Dinitrotoluene	19	U
534-52-1	4,6-Dinitro-2-methylphenol	38	U
95-94-3	1,2,4,5-Tetrachlorobenzene	38	U
1912-24-9	Atrazine	38	U
91-94-1	3,3'-Dichlorobenzidine	38	U

Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D12.D		
Lab Sample ID:	QL16010-002	Client Sample ID:	F6R32RE
Injection Date:	31-Dec-2015 17:06:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4123115D, QL16010-002		
Misc. Info:	20X		
Method:	\\Organics\HH\chem\msd4.i\4123115D.b\Sim2544.m		
Method Date:	04-Jan-2016 17:23:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	15000	Volume of final extract (uL)
Vo	800.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	04-Jan-2016 17:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 109 1,4-Dioxane-d8	96.0	3.726	3.744	-0.018	1728	0.01511	5.6662	eR
108 1,4-Dioxane	88.0		3.770		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.718		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.753		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	79688	0.40000	150.00	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.278		ND			
15 Hexachloroethane	117.0		6.424		ND			
$ 16 Nitrobenzene-d5	128.0		6.445		ND			
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0		6.917		ND			
* 23 Naphthalene-d8	136.0	7.066	7.048	0.018	7239514	0.40000	150.00	I
24 Naphthalene	128.0		7.066		ND			
25 4-Chloroaniline	127.0		7.083		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0		7.604		ND			
29 2-Methylnaphthalene	142.0		7.636		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.865		ND			
34 1,1'-Biphenyl	154.0		8.010		ND			
39 2,6-Dinitrotoluene	165.0		8.301		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.548	8.533	0.015	287833	0.40000	150.00	I
42 Acenaphthene	153.0		8.548		ND			

	Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
	43 2,4-Dinitrophenol	184.0		8.548		ND			
	46 2,4-Dinitrotoluene	165.0		8.656		ND			
	45 Dibenzofuran	168.0		8.703		ND			
	48 Fluorene	166.0		8.996		ND			
	51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
	55 Hexachlorobenzene	284.0		9.473		ND			
	56 Atrazine	200.0		9.463		ND			
	57 Pentachlorophenol	266.0		9.629		ND			
*	58 Phenanthrene-d10	188.0	9.807	9.796	0.011	374118	0.40000	150.00	
	59 Phenanthrene	178.0		9.817		ND			
	60 Anthracene	178.0		9.859		ND			
$	116 Flouranthene-d10	212.0	10.932	10.924	0.008	17918	0.01816	6.8115	eR
	63 Fluoranthene	202.0		10.941		ND			
	64 Pyrene	202.0		11.203		ND			
	68 3,3'-Dichlorobenzidine	252.0		12.644		ND			
	67 Benzo(a)anthracene	228.0		12.731		ND			
*	69 Chrysene-d12	240.0	12.748	12.748	0.000	456557	0.40000	150.00	
	70 Chrysene	228.0		12.783		ND			
	73 Benzo(b)fluoranthene	252.0		14.407		ND			
	74 Benzo(k)fluoranthene	252.0		14.447		ND			
	75 Benzo(a)pyrene	252.0		14.974		ND			
*	76 Perylene-d12	264.0	15.081	15.073	0.008	325252	0.40000	150.00	
	77 Indeno(1,2,3-cd)pyrene	276.0		17.305		ND			
	78 Dibenzo(a,h)anthracene	278.0		17.323		ND			
	79 Benzo(g,h,i)perylene	276.0		17.986		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

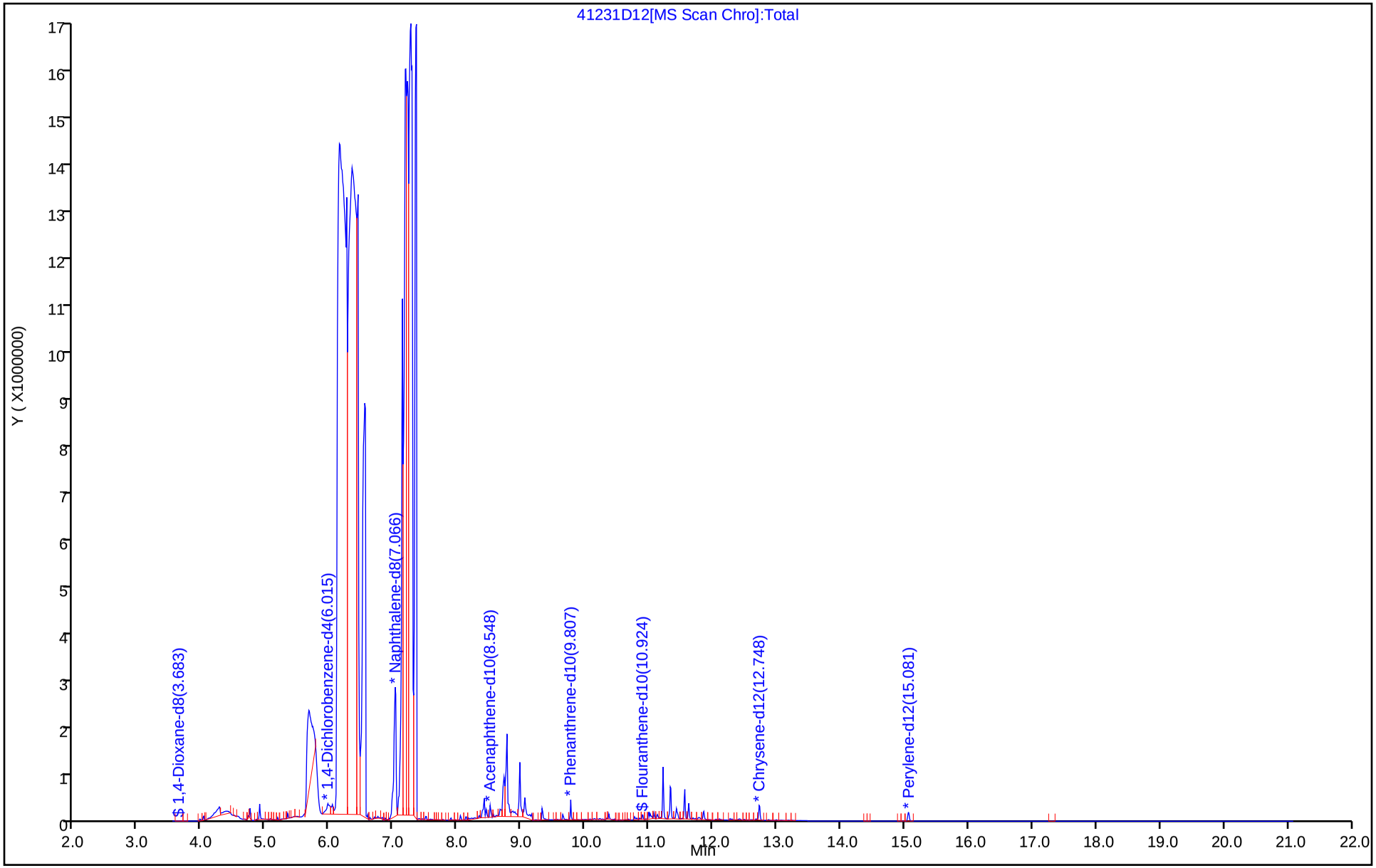
R - Spike/Surrogte Fails %Recovery Test

I - Istd Fails Area Recovery Test

Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D12.D				
Injection Date:	31-Dec-2015 17:06:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R32RE	Lab ID:	QL16010-002		
Sample Info:	4123115D, QL16010-002				
Injection Vol.	2.00 1	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 1020 (g/mL) mL Lab File ID: 41231D06

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 20.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	2.0	U
91-20-3	Naphthalene	4.6	
91-57-6	2-Methylnaphthalene	3.0	
208-96-8	Acenaphthylene	0.98	U
83-32-9	Acenaphthene	0.65	J
86-73-7	Fluorene	0.98	U
87-86-5	Pentachlorophenol	3.9	U
85-01-8	Phenanthrene	3.0	
120-12-7	Anthracene	0.98	U
206-44-0	Fluoranthene	0.98	U
129-00-0	Pyrene	0.98	U
56-55-3	Benzo(a)anthracene	0.98	U
218-01-9	Chrysene	0.98	U
205-99-2	Benzo(b)fluoranthene	0.98	U
207-08-9	Benzo(k)fluoranthene	0.98	U
50-32-8	Benzo(a)pyrene	0.98	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.98	U
53-70-3	Dibenzo(a,h)anthracene	0.98	U
191-24-2	Benzo(g,h,i)perylene	0.98	U
132-64-9	Dibenzofuran	1.3	
118-74-1	Hexachlorobenzene	0.98	U
87-68-3	Hexachlorobutadiene	2.0	U
111-44-4	bis(2-Chloroethyl)ether	2.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2.0	U
621-64-7	N-Nitrosodi-n-propylamine	0.98	U
67-72-1	Hexachloroethane	2.0	U
98-95-3	Nitrobenzene	2.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 1020 (g/mL) mL Lab File ID: 41231D06

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 20.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U
92-52-4	1,1'-Biphenyl	0.59	J
606-20-2	2,6-Dinitrotoluene	0.98	U
51-28-5	2,4-Dinitrophenol	20	U
121-14-2	2,4-Dinitrotoluene	0.98	U
534-52-1	4,6-Dinitro-2-methylphenol	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U
1912-24-9	Atrazine	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U

Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D06.D		
Lab Sample ID:	QL16010-003	Client Sample ID:	F6R33
Injection Date:	31-Dec-2015 14:26:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4123115D, QL16010-003		
Misc. Info:	20X		
Method:	\\Organics\HH\chem\msd4.i\4123115D.b\Sim2544.m		
Method Date:	04-Jan-2016 17:23:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	4
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1020.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	04-Jan-2016 09:12:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 109 1,4-Dioxane-d8	96.0	3.735	3.744	-0.009	2000	0.01842	0.36119	eR
108 1,4-Dioxane	88.0		3.770		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.683	5.718	-0.035	69678	0.34123	6.6907	R
5 bis(2-Chloroethyl)Ether	93.0		5.753		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	75655	0.40000	7.8431	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.278		ND			
15 Hexachloroethane	117.0		6.424		ND			
$ 16 Nitrobenzene-d5	128.0	6.426	6.445	-0.019	26421	0.03040	0.59616	eR
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.908	6.917	-0.009	2294	0.001249	0.02450	e
* 23 Naphthalene-d8	136.0	7.057	7.048	0.009	3179762	0.40000	7.8431	I
24 Naphthalene	128.0	7.066	7.066	0.000	1914340	0.23213	4.5516	
25 4-Chloroaniline	127.0		7.083		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.604	7.604	0.000	3429	0.000780	0.01529	e
29 2-Methylnaphthalene	142.0	7.636	7.636	0.000	744505	0.15290	2.9980	
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.865		ND			
34 1,1'-Biphenyl	154.0	8.011	8.010	0.001	28787	0.03028	0.59382	e
39 2,6-Dinitrotoluene	165.0		8.301		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	168881	0.40000	7.8431	
42 Acenaphthene	153.0	8.548	8.548	0.000	21709	0.03301	0.64722	eM

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
43 2,4-Dinitrophenol	184.0		8.548		ND			
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0	8.703	8.703	0.000	57080	0.06742	1.3220	
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.463		ND			
57 Pentachlorophenol	266.0		9.629		ND			
* 58 Phenanthrene-d10	188.0	9.796	9.796	0.000	368012	0.40000	7.8431	
59 Phenanthrene	178.0	9.817	9.817	0.000	151283	0.15094	2.9596	
60 Anthracene	178.0		9.859		ND			
$ 116 Flouranthene-d10	212.0	10.924	10.924	0.000	3176	0.003273	0.06418	e
63 Fluoranthene	202.0		10.941		ND			
64 Pyrene	202.0		11.203		ND			
68 3,3'-Dichlorobenzidine	252.0		12.644		ND			
67 Benzo(a)anthracene	228.0		12.731		ND			
* 69 Chrysene-d12	240.0	12.748	12.748	0.000	376891	0.40000	7.8431	
70 Chrysene	228.0		12.783		ND			
73 Benzo(b)fluoranthene	252.0		14.407		ND			
74 Benzo(k)fluoranthene	252.0		14.447		ND			
75 Benzo(a)pyrene	252.0		14.974		ND			
* 76 Perylene-d12	264.0	15.077	15.073	0.004	351051	0.40000	7.8431	
77 Indeno(1,2,3-cd)pyrene	276.0		17.305		ND			
78 Dibenzo(a,h)anthracene	278.0		17.323		ND			
79 Benzo(g,h,i)perylene	276.0		17.986		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

R - Spike/Surrogte Fails %Recovery Test

I - Istd Fails Area Recovery Test

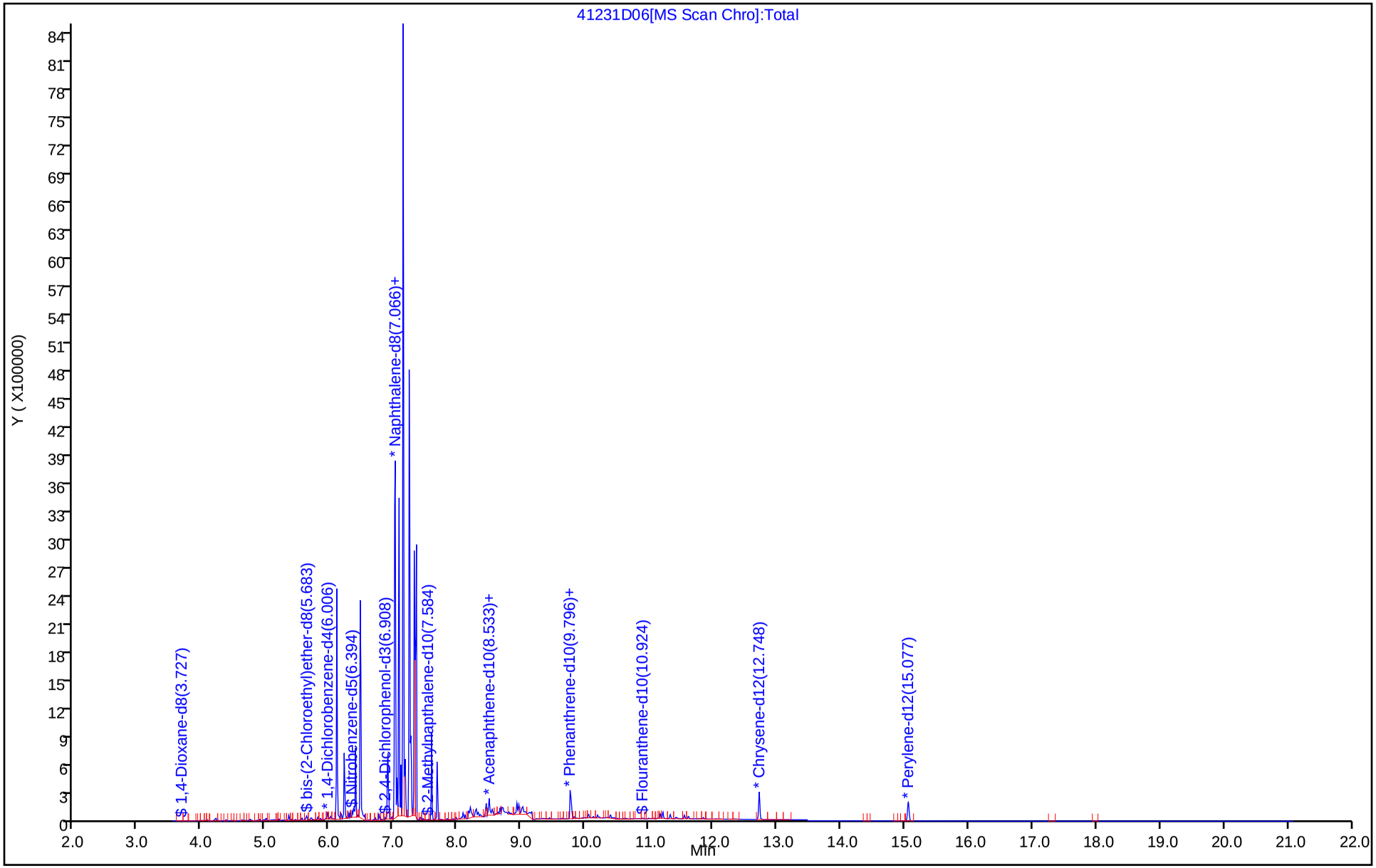
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D06.D				
Injection Date:	31-Dec-2015 14:26:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R33	Lab ID:	QL16010-003		
Sample Info:	4123115D, QL16010-003				
Injection Vol.	2.00 1	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

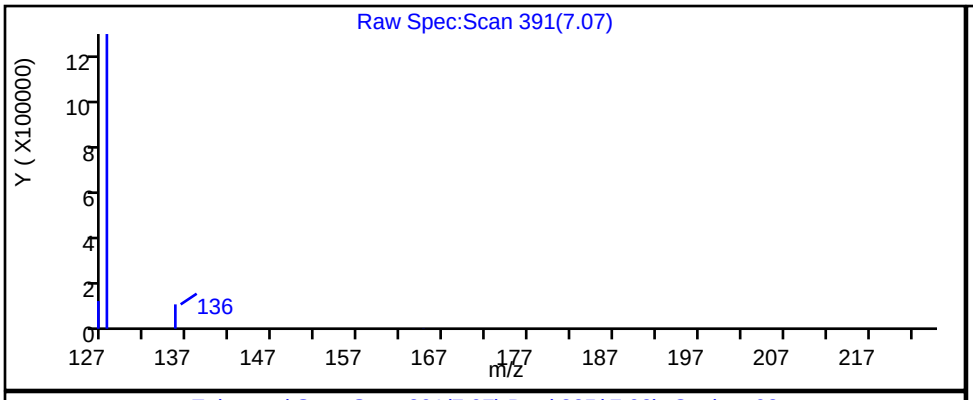


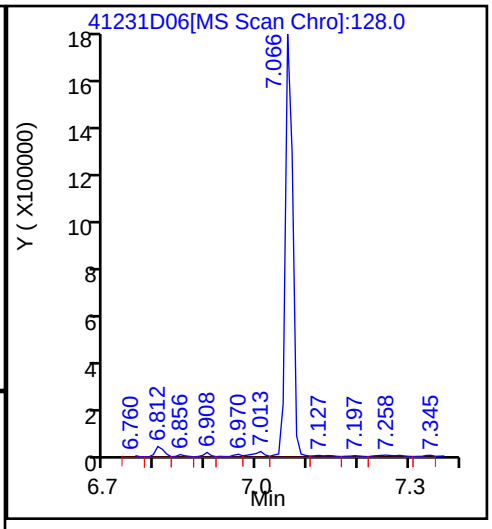
Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

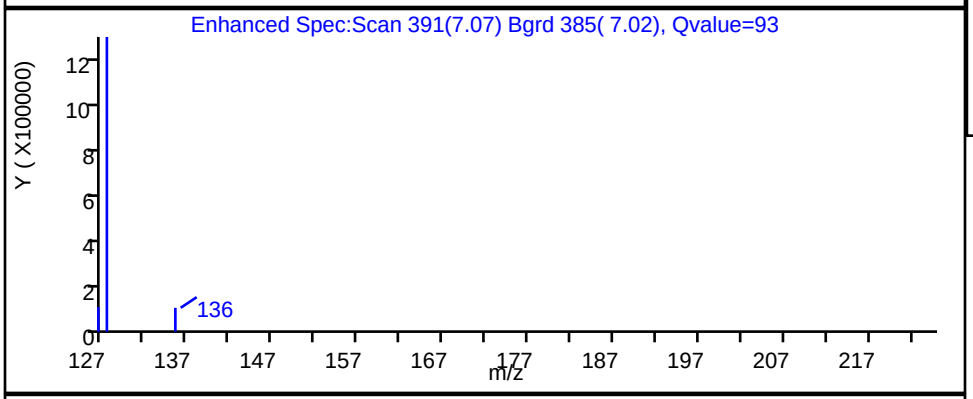
Shealy Environmental Services

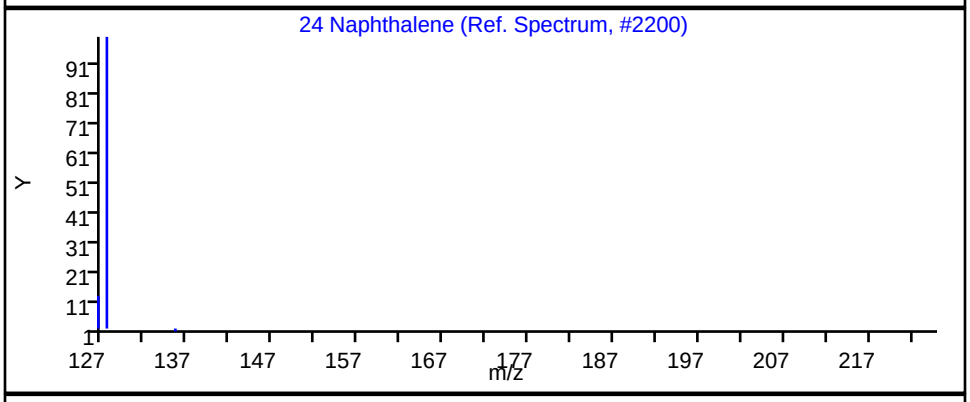
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D06.D		
Injection Date:	31-Dec-2015 14:26:30	Inst. ID:	msd4.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

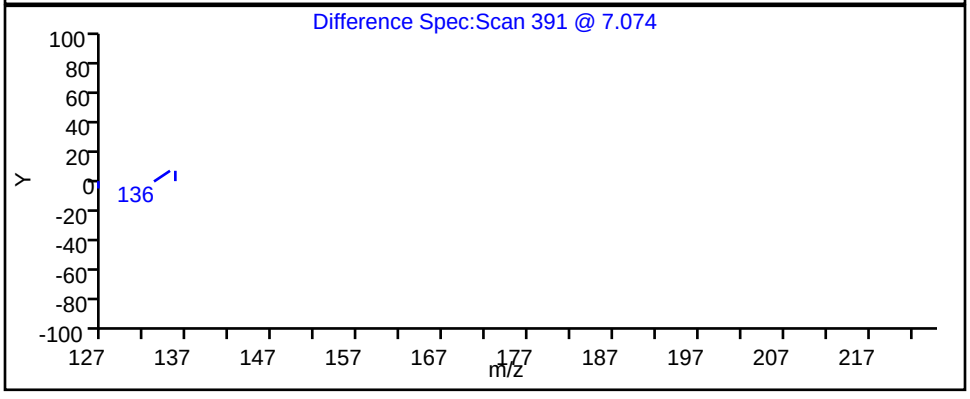
24 Naphthalene









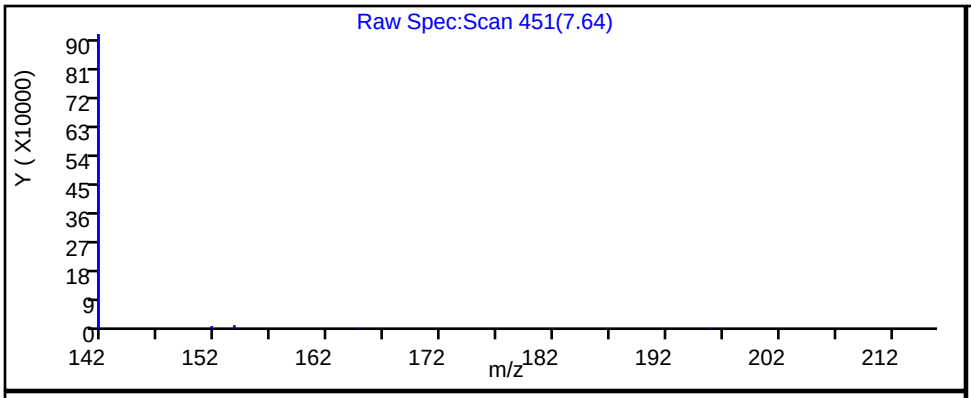


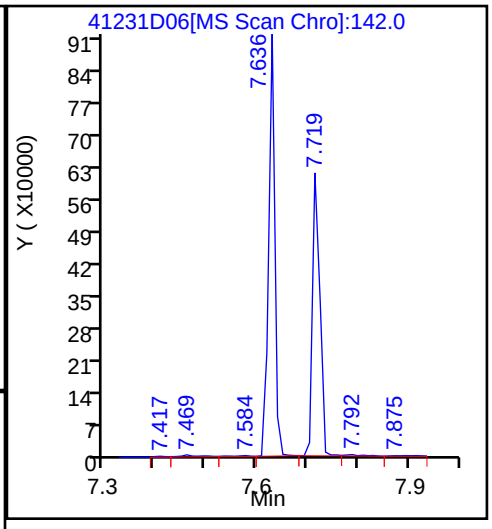
Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

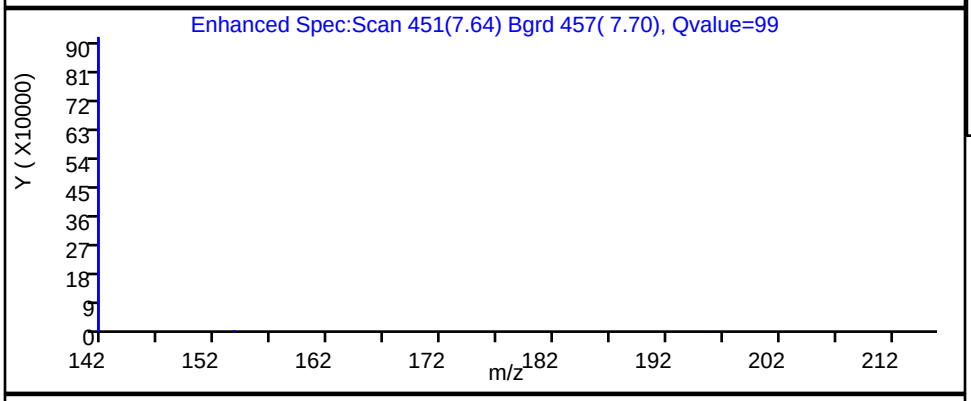
Shealy Environmental Services

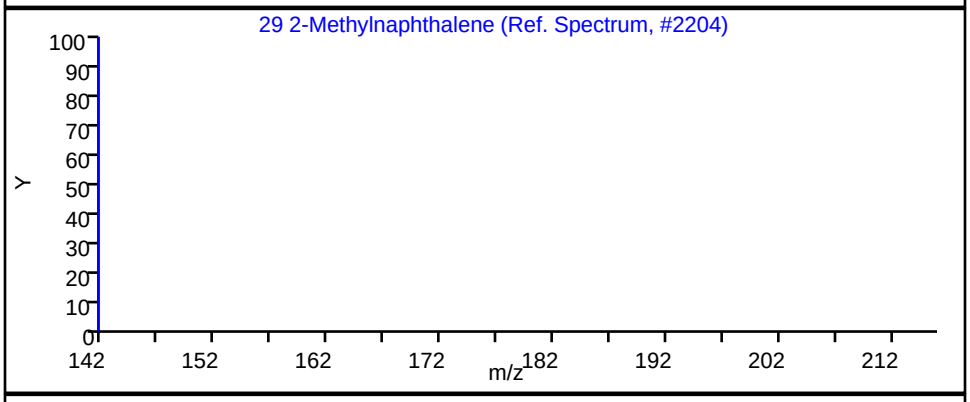
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D06.D		
Injection Date:	31-Dec-2015 14:26:30	Inst. ID:	msd4.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

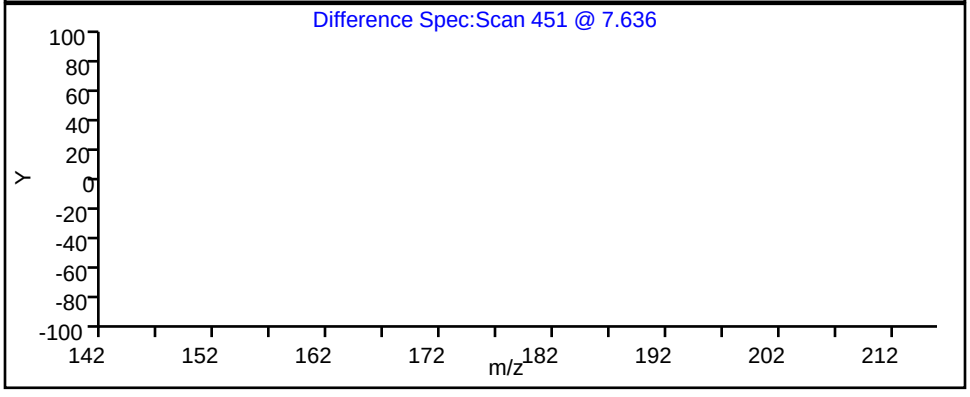
29 2-Methylnaphthalene









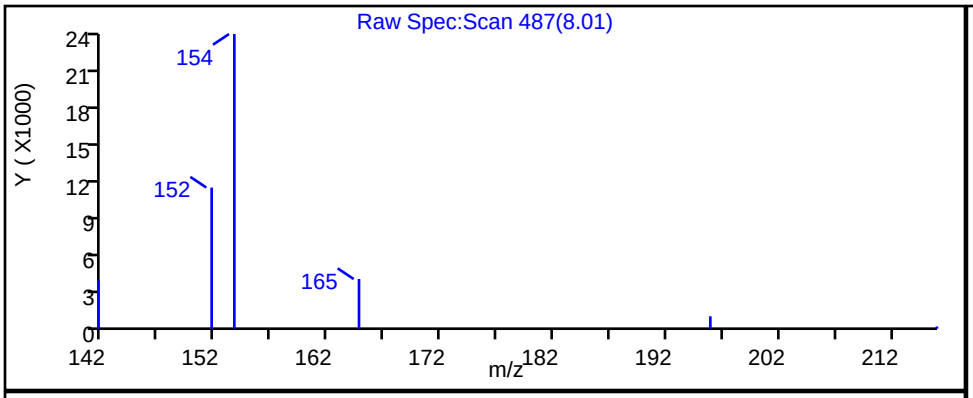


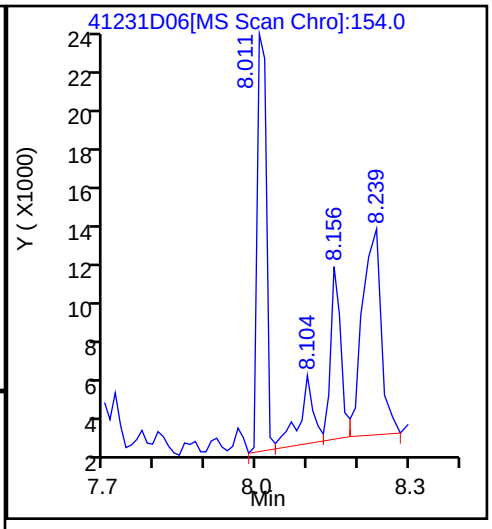
Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

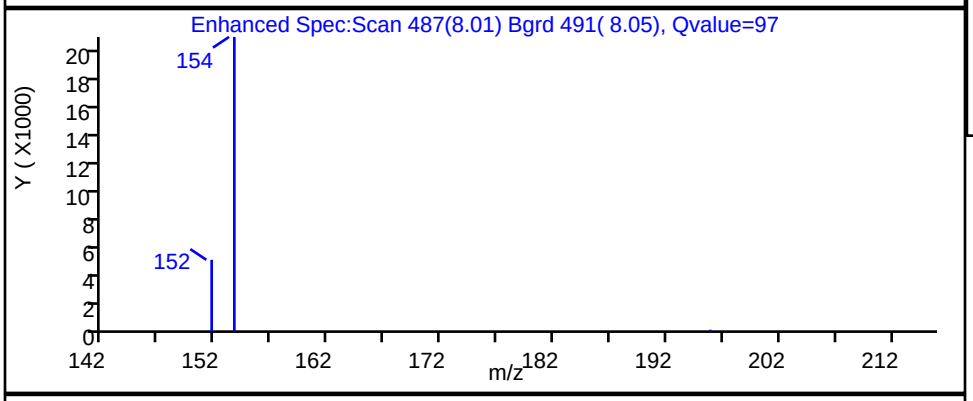
Shealy Environmental Services

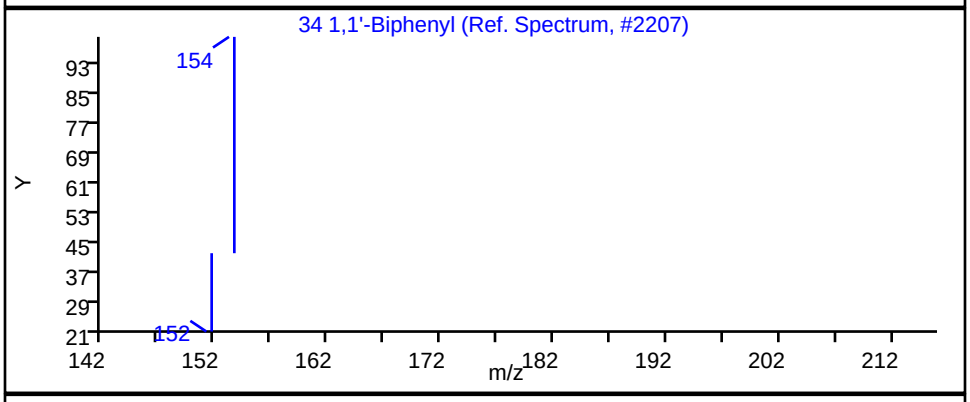
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D06.D		
Injection Date:	31-Dec-2015 14:26:30	Inst. ID:	msd4.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

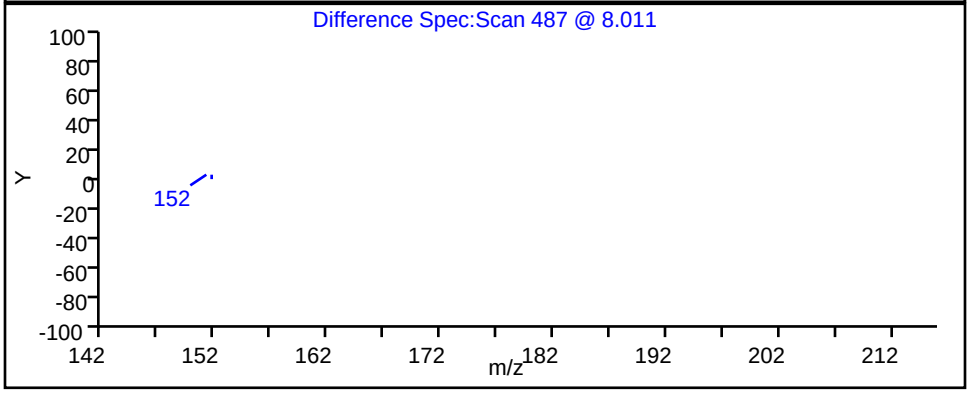
34 1,1'-Biphenyl









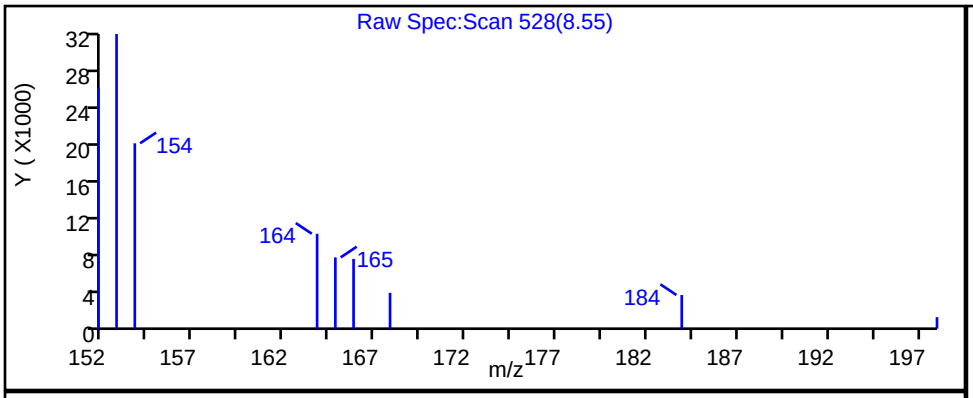


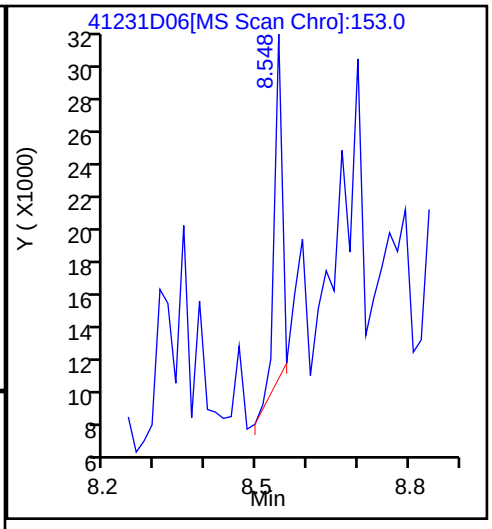
Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

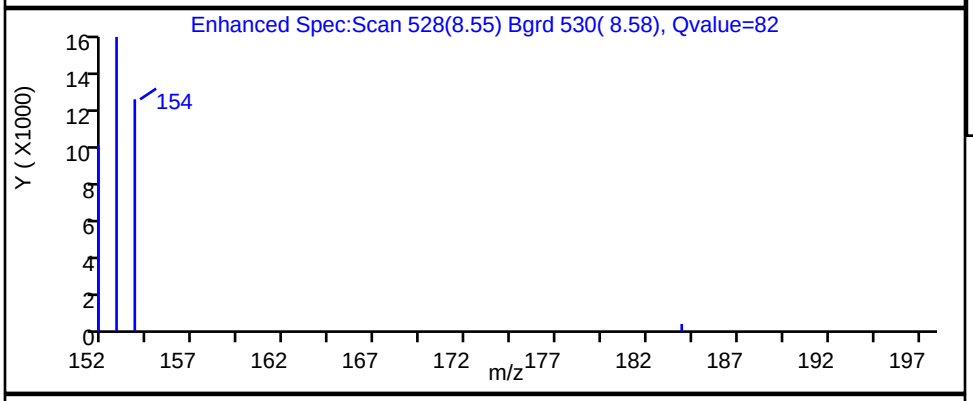
Shealy Environmental Services

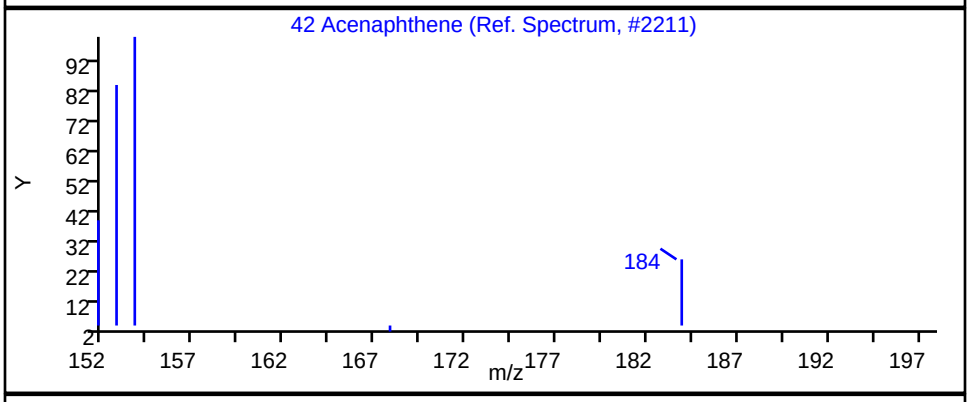
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D06.D		
Injection Date:	31-Dec-2015 14:26:30	Inst. ID:	msd4.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

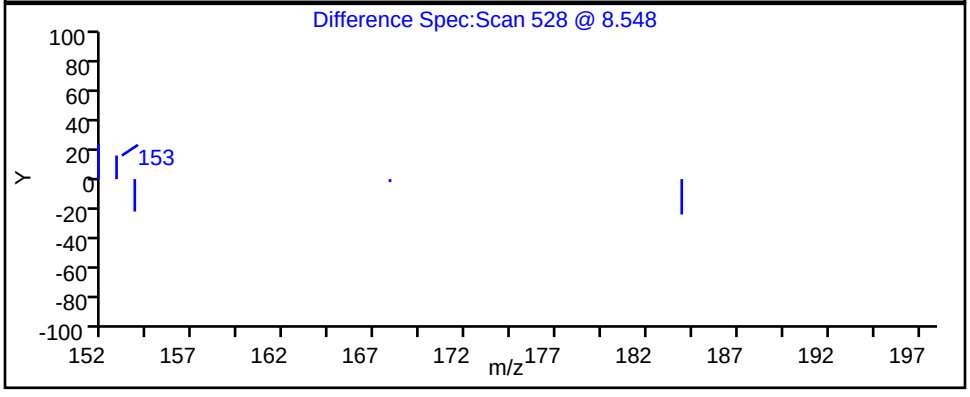
42 Acenaphthene









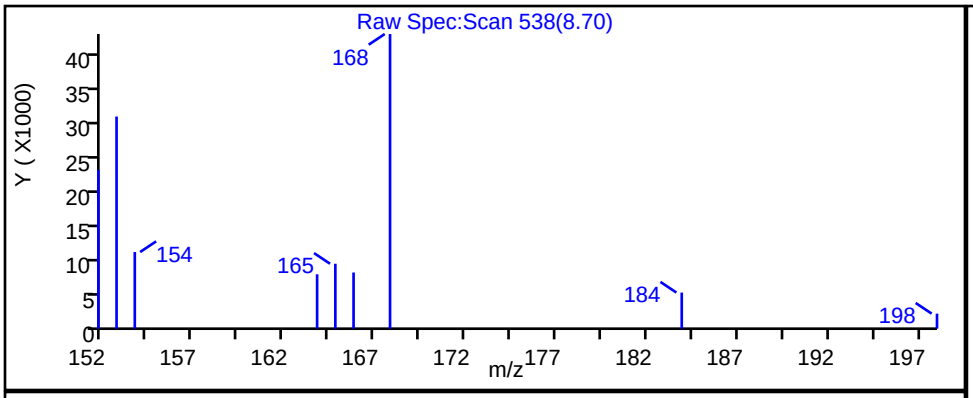


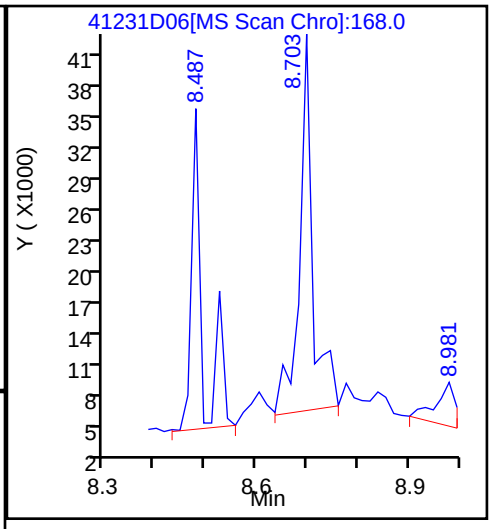
Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

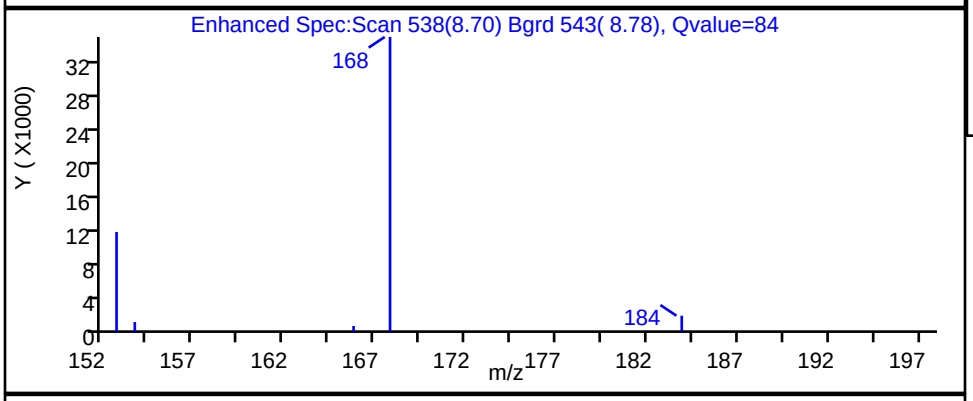
Shealy Environmental Services

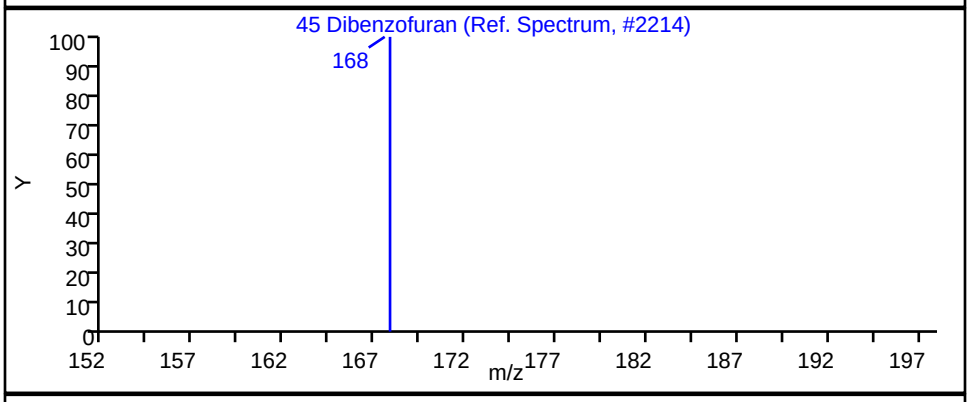
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D06.D		
Injection Date:	31-Dec-2015 14:26:30	Inst. ID:	msd4.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

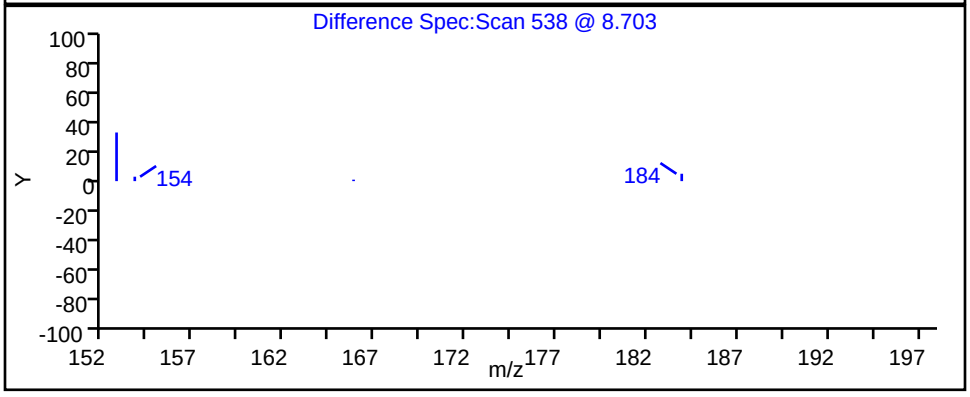
45 Dibenzofuran









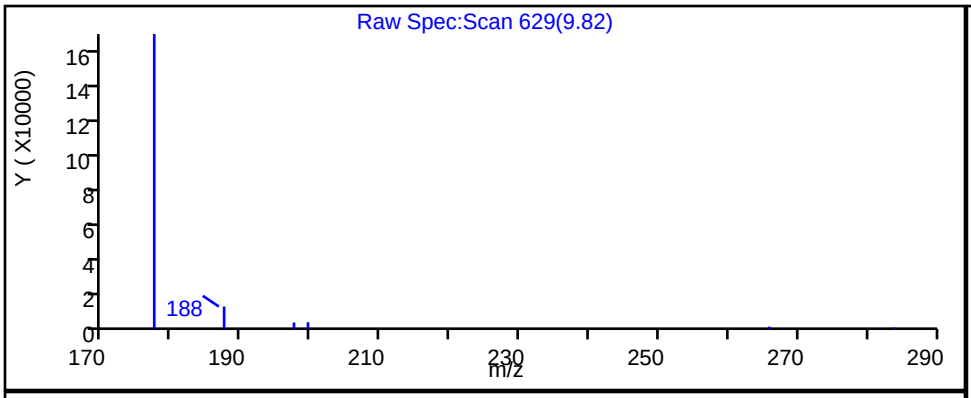


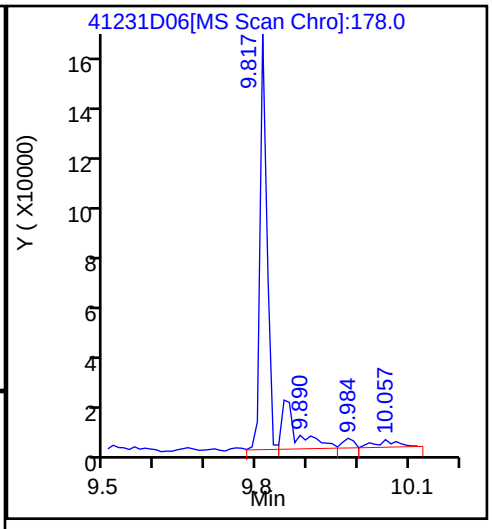
Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

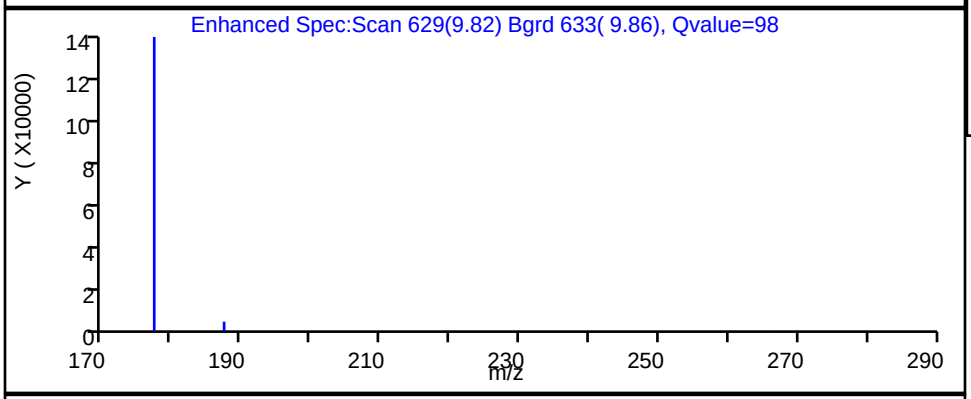
Shealy Environmental Services

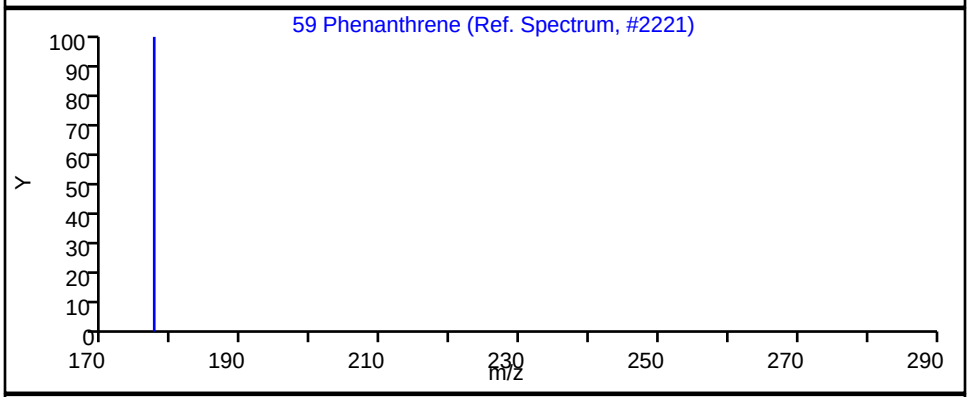
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D06.D		
Injection Date:	31-Dec-2015 14:26:30	Inst. ID:	msd4.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

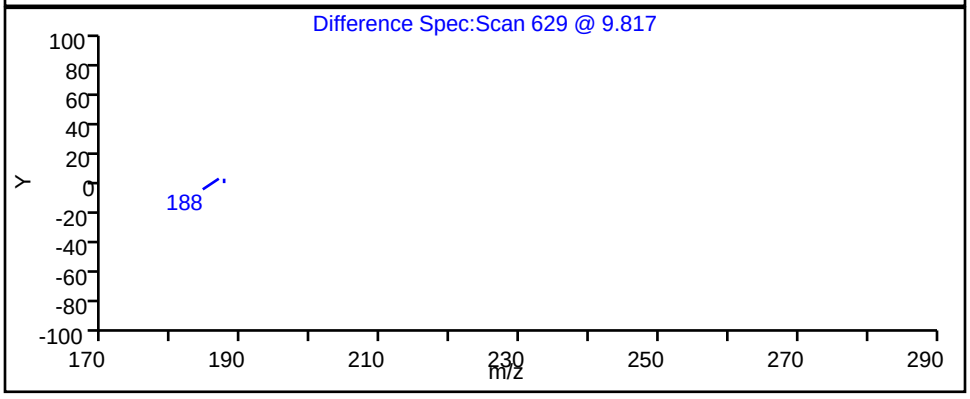
59 Phenanthrene











Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

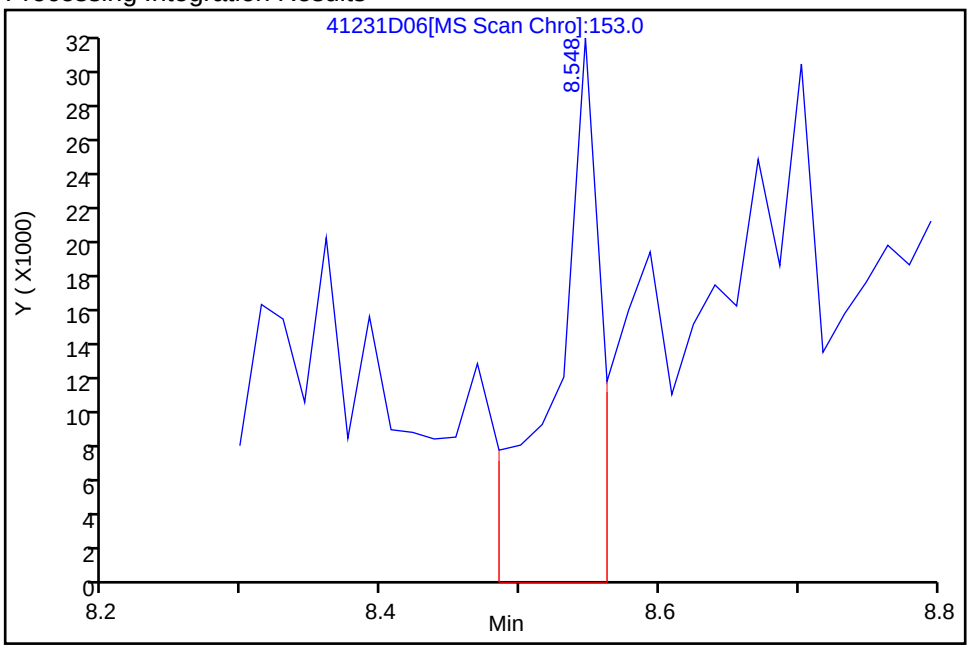
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D06.D		
Injection Date:	31-Dec-2015 14:26:30	Inst. ID:	msd4.i
Client ID:	F6R33	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

42 Acenaphthene, CAS: 83-32-9

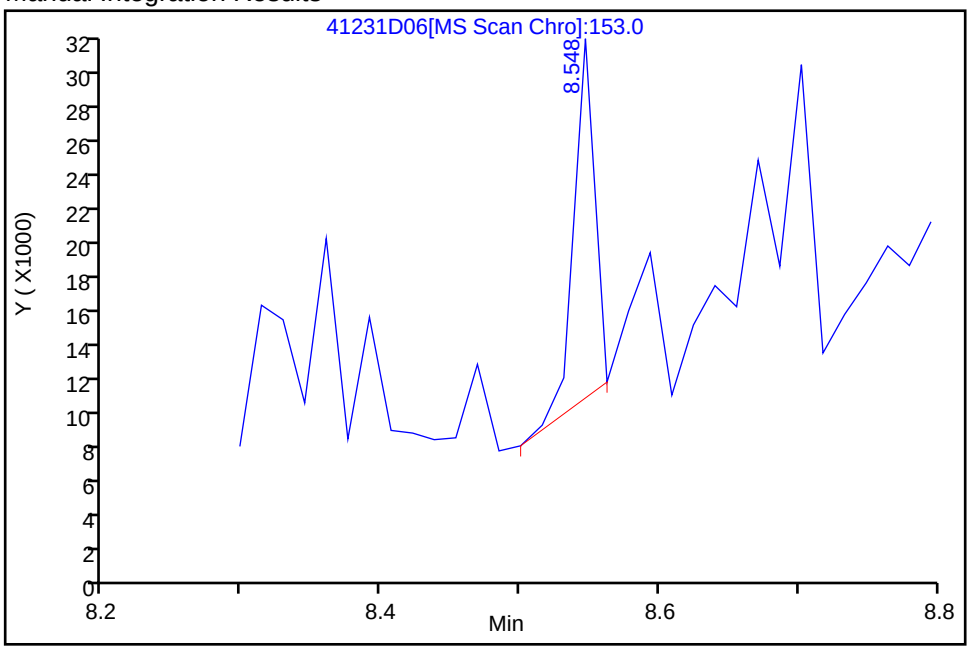
Processing Integration Results

RT: 8.548
Area: 56711
Conc: 0.84538
Conc Units: ug/L
Conc:



Manual Integration Results

RT: 8.548
Area: 21709
Conc: 0.64722
Conc Units: ug/L



Data Editor: rbh, 04-Jan-2016 09:12:30
Audit Action: Mint
Audit Reason: IAI

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R33RE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-003

Sample wt/vol: 1020 (g/mL) mL Lab File ID: 41231D13

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 20.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	2.0	U
91-20-3	Naphthalene	4.4	
91-57-6	2-Methylnaphthalene	3.0	
208-96-8	Acenaphthylene	0.98	U
83-32-9	Acenaphthene	0.56	J
86-73-7	Fluorene	0.98	U
87-86-5	Pentachlorophenol	3.9	U
85-01-8	Phenanthrene	2.9	
120-12-7	Anthracene	0.98	U
206-44-0	Fluoranthene	0.98	U
129-00-0	Pyrene	0.98	J
56-55-3	Benzo(a)anthracene	0.11	J
218-01-9	Chrysene	0.21	J
205-99-2	Benzo(b)fluoranthene	0.099	J
207-08-9	Benzo(k)fluoranthene	0.064	J
50-32-8	Benzo(a)pyrene	0.098	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.98	U
53-70-3	Dibenzo(a,h)anthracene	0.98	U
191-24-2	Benzo(g,h,i)perylene	0.98	U
132-64-9	Dibenzofuran	1.7	
118-74-1	Hexachlorobenzene	0.98	U
87-68-3	Hexachlorobutadiene	2.0	U
111-44-4	bis(2-Chloroethyl)ether	2.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	2.0	U
621-64-7	N-Nitrosodi-n-propylamine	0.98	U
67-72-1	Hexachloroethane	2.0	U
98-95-3	Nitrobenzene	2.0	U

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Analytical Method: SVOA SIM
Level: LOW
Matrix: Water
Lab Sample ID: QL16010-003
Sample wt/vol: 1020 (g/mL) mL
Lab File ID: 41231D13
% Solids:
Date Received: 12/16/2015
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Extract Volume: 1000 (uL)
Soil Aliquot (VOA): (uL)
Extraction Type: CLLE
Heated Purge: (Y/N)
Injection Volume: 1.0 (uL)
Purge Volume: (mL)
pH: 2 Dilution Factor: 20.0
Cleanup Types:
Cleanup Factor:
Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U
92-52-4	1,1'-Biphenyl	0.58	J
606-20-2	2,6-Dinitrotoluene	0.98	U
51-28-5	2,4-Dinitrophenol	20	U
121-14-2	2,4-Dinitrotoluene	0.98	U
534-52-1	4,6-Dinitro-2-methylphenol	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U
1912-24-9	Atrazine	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U

Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd4.i\4123115D.b\41231D13.D
Lab Sample ID: QL16010-003 Client Sample ID: F6R33RE
Injection Date: 31-Dec-2015 17:33:30 Dil. Factor: 20.0
Operator: RBH Inst. ID: msd4.i
Sample Info: 4123115D, QL16010-003
Misc. Info: 20X
Method: \\Organics\HH\chem\msd4.i\4123115D.b\Sim2544.m
Method Date: 04-Jan-2016 17:23:30 Quant Method: ISTD
Calib Date: 18-Dec-2015 16:36:30 Calib File: 41218B07.D
Sample Type: Client ALS Bottle: 4
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1020.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1: Zebron ZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: rbh Review Date: 04-Jan-2016 09:21:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 109 1,4-Dioxane-d8	96.0	3.709	3.744	-0.035	2727	0.02592	0.50816	eR
108 1,4-Dioxane	88.0		3.770		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.683	5.718	-0.035	66675	0.33692	6.6062	R
5 bis(2-Chloroethyl)Ether	93.0		5.753		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	73321	0.40000	7.8431	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.278		ND			
15 Hexachloroethane	117.0		6.424		ND			
$ 16 Nitrobenzene-d5	128.0	6.424	6.445	-0.021	25623	0.02972	0.58274	eR
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.891	6.917	-0.026	2222	0.001220	0.02392	e
* 23 Naphthalene-d8	136.0	7.057	7.048	0.009	3154724	0.40000	7.8431	I
24 Naphthalene	128.0	7.065	7.066	-0.001	1839208	0.22479	4.4077	
25 4-Chloroaniline	127.0		7.083		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.604	7.604	0.000	3210	0.000736	0.01443	e
29 2-Methylnaphthalene	142.0	7.635	7.636	-0.001	749773	0.15520	3.0432	
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.865		ND			
34 1,1'-Biphenyl	154.0	8.021	8.010	0.011	27903	0.02975	0.58336	e
39 2,6-Dinitrotoluene	165.0		8.301		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	166631	0.40000	7.8431	
42 Acenaphthene	153.0	8.548	8.548	0.000	18560	0.02860	0.56081	eM

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Data File: \\Organics\HH\chem\msd4.i\4123115D.b\41231D13.D

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
43 2,4-Dinitrophenol	184.0		8.548		ND			
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0	8.703	8.703	0.000	71419	0.08550	1.6764	
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.463		ND			
57 Pentachlorophenol	266.0		9.629		ND			
* 58 Phenanthrene-d10	188.0	9.796	9.796	0.000	349084	0.40000	7.8431	
59 Phenanthrene	178.0	9.817	9.817	0.000	142868	0.15028	2.9466	
60 Anthracene	178.0		9.859		ND			
$ 116 Flouranthene-d10	212.0	10.923	10.924	-0.001	4490	0.004878	0.09565	e
63 Fluoranthene	202.0		10.941		ND			
64 Pyrene	202.0	11.203	11.203	0.000	50878	0.04995	0.97937	e
68 3,3'-Dichlorobenzidine	252.0		12.644		ND			
67 Benzo(a)anthracene	228.0	12.731	12.731	0.000	5249	0.005692	0.11160	e
* 69 Chrysene-d12	240.0	12.748	12.748	0.000	371513	0.40000	7.8431	
70 Chrysene	228.0	12.792	12.783	0.009	9624	0.01051	0.20614	e
73 Benzo(b)fluoranthene	252.0	14.410	14.407	0.003	4918	0.005056	0.09914	e
74 Benzo(k)fluoranthene	252.0	14.454	14.447	0.007	3173	0.003281	0.06433	e
75 Benzo(a)pyrene	252.0	14.981	14.974	0.007	4465	0.005014	0.09831	e
* 76 Perylene-d12	264.0	15.077	15.073	0.004	322795	0.40000	7.8431	
77 Indeno(1,2,3-cd)pyrene	276.0		17.305		ND			
78 Dibenzo(a,h)anthracene	278.0		17.323		ND			
79 Benzo(g,h,i)perylene	276.0		17.986		ND			

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

R - Spike/Surrogte Fails %Recovery Test

I - Istd Fails Area Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

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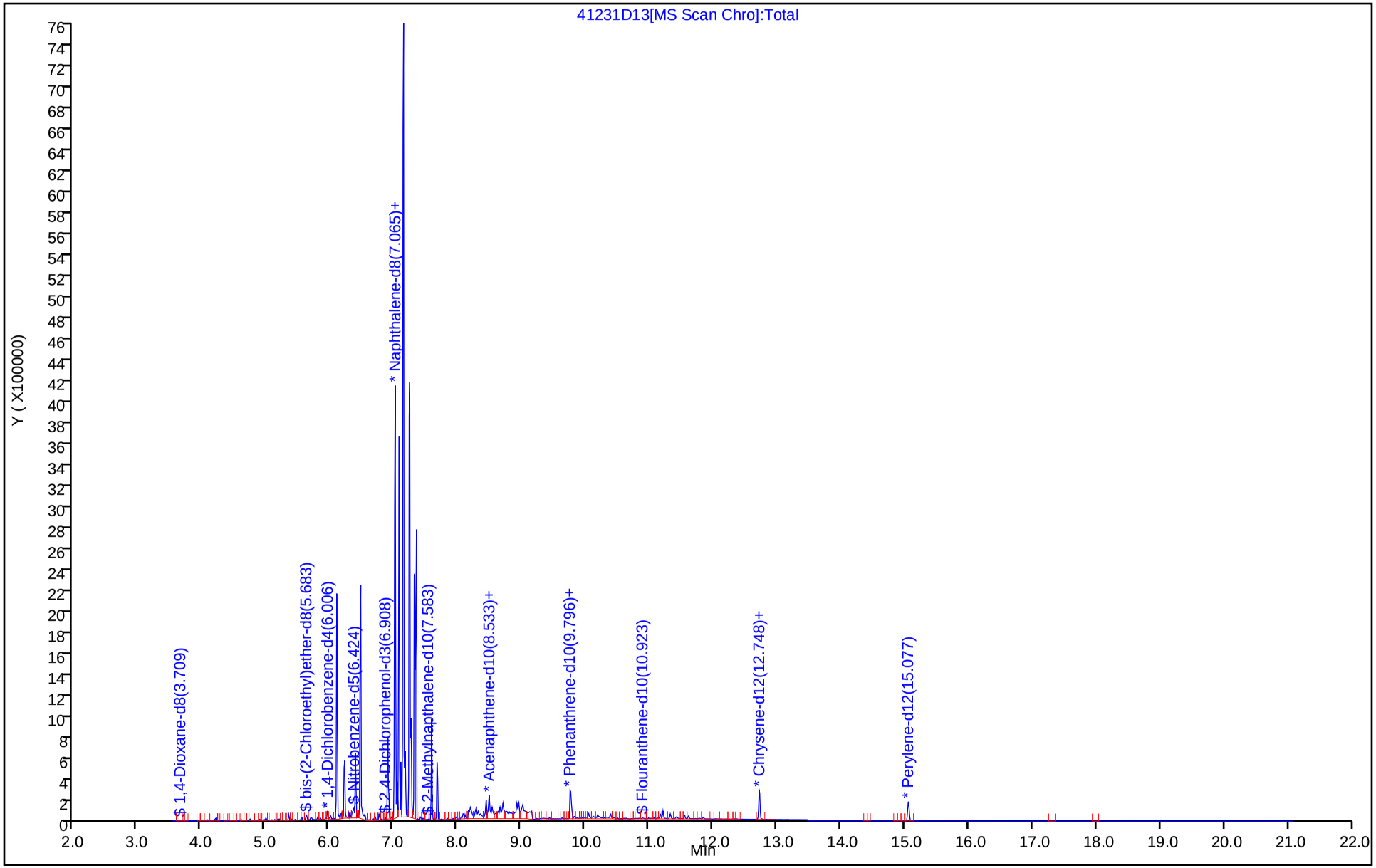
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D13.D				
Injection Date:	31-Dec-2015 17:33:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R33RE	Lab ID:	QL16010-003		
Sample Info:	4123115D, QL16010-003				
Injection Vol.	2.00 1	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



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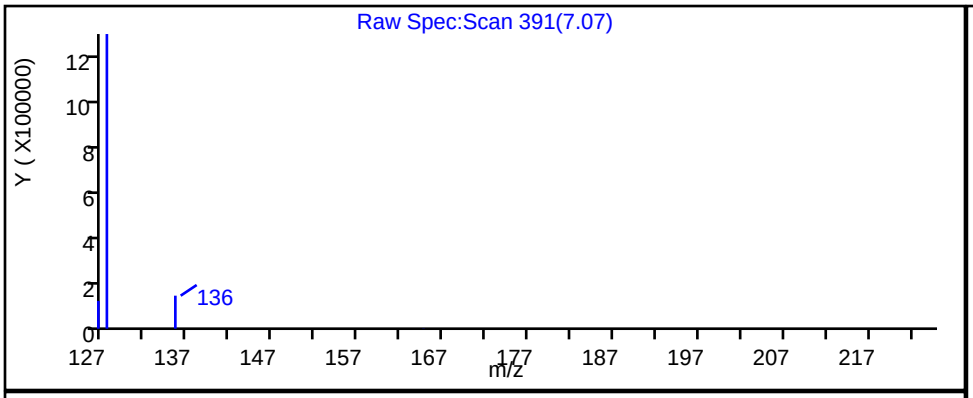
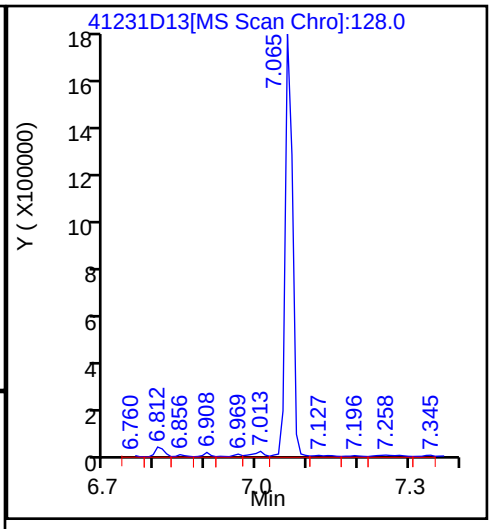
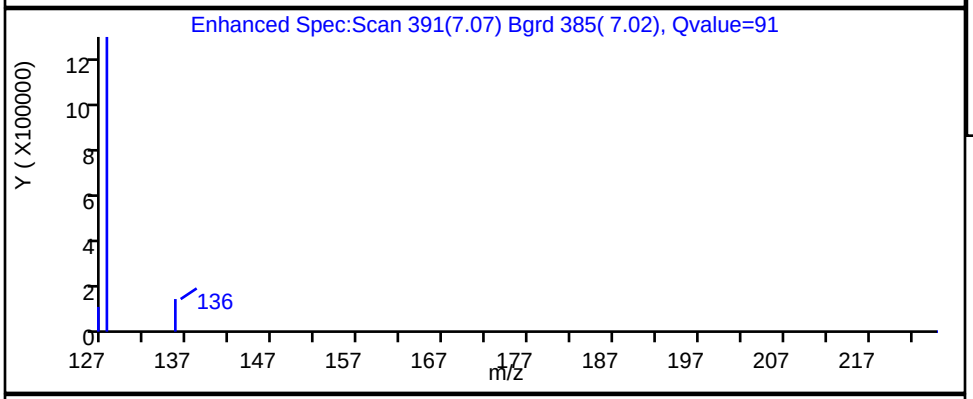
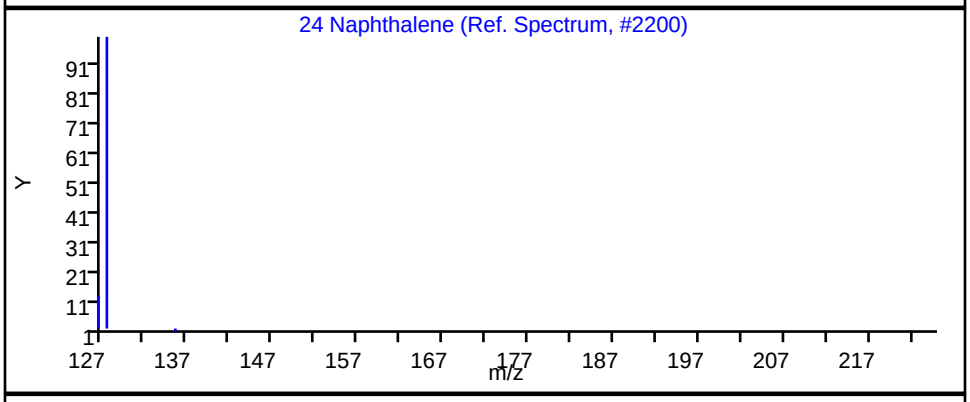
Client ID:	F6R33RE	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

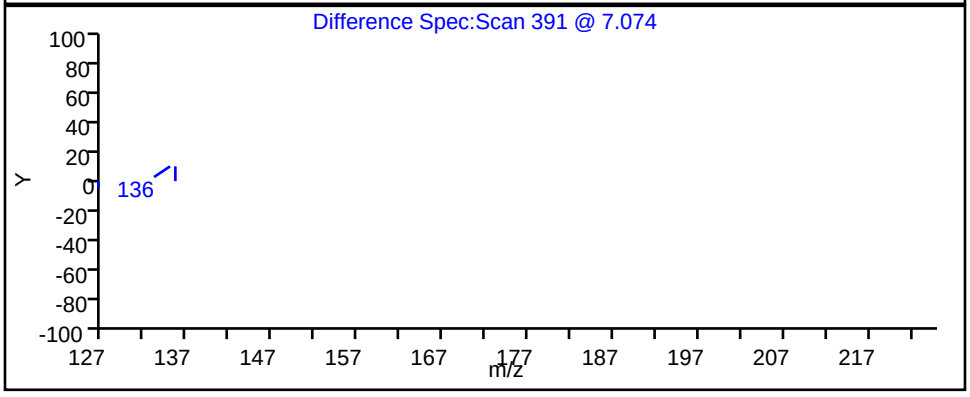
24 Naphthalene











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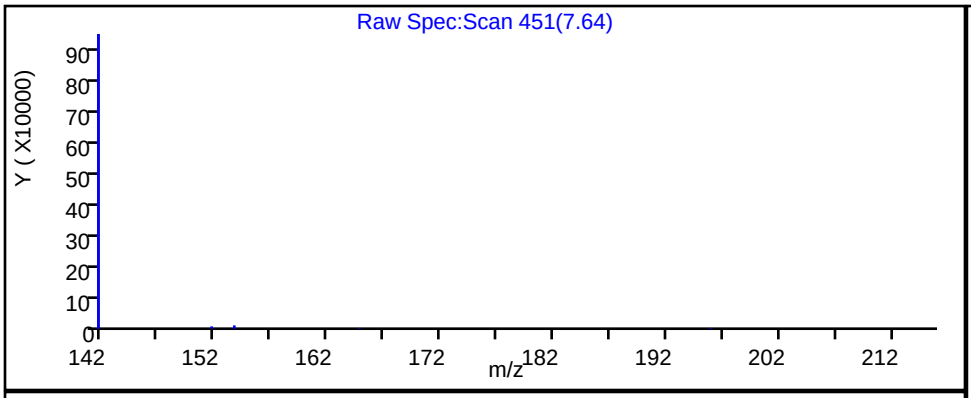
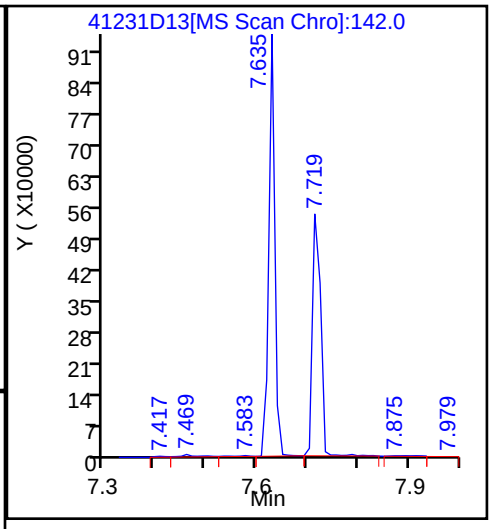
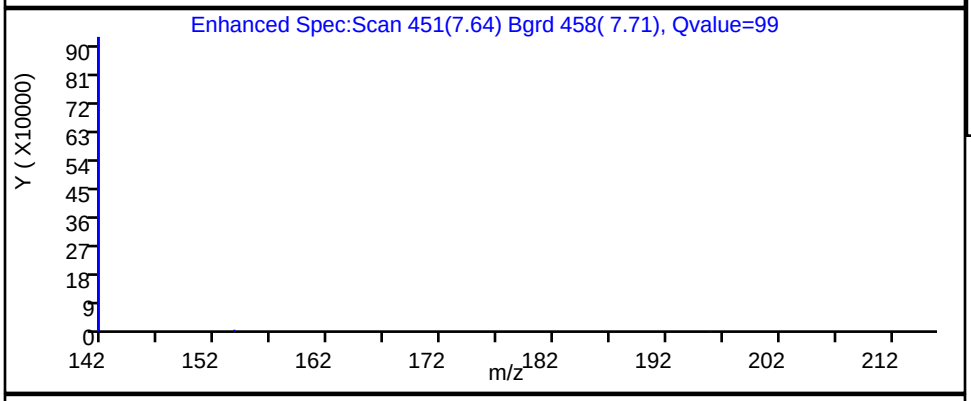
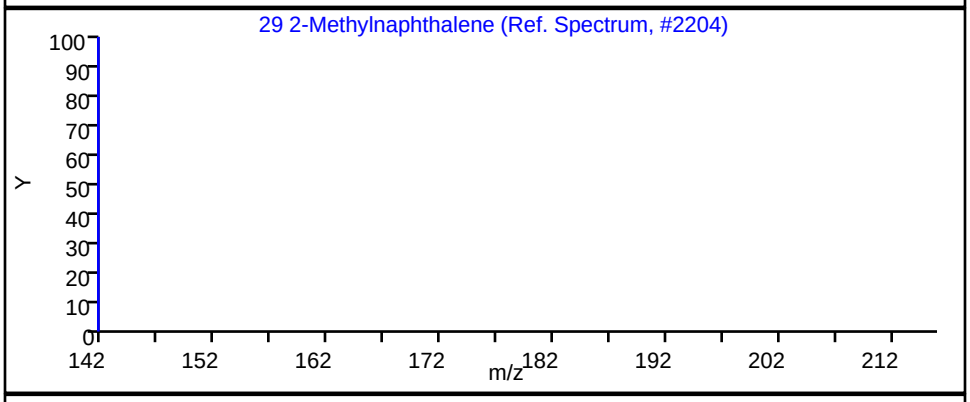
Client ID:	F6R33RE	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

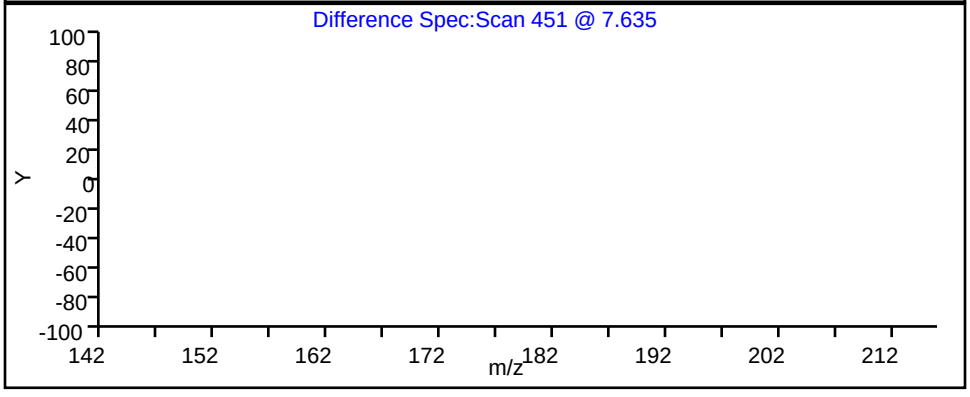
29 2-Methylnaphthalene











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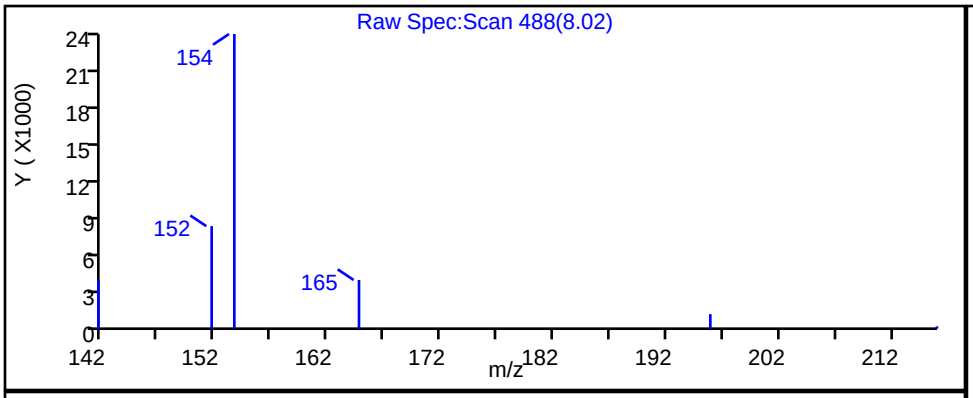
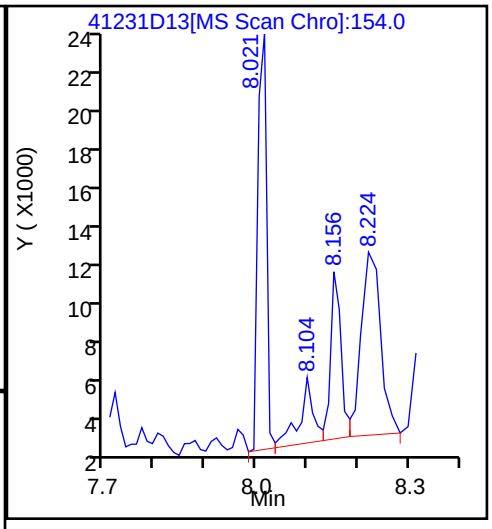
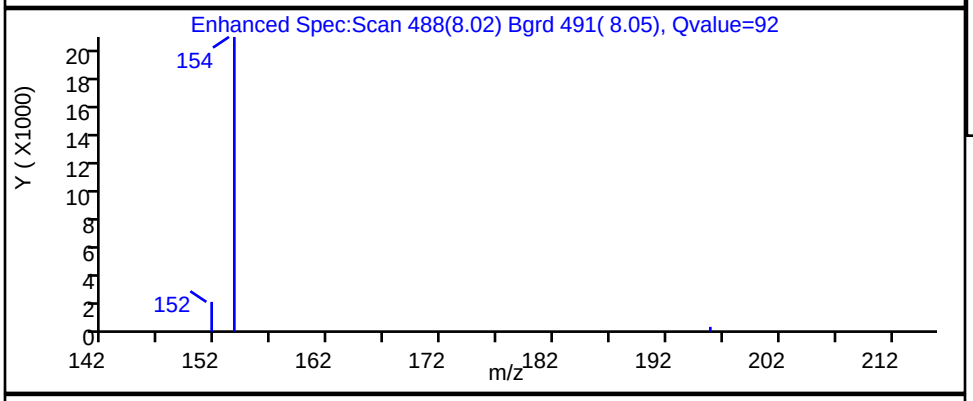
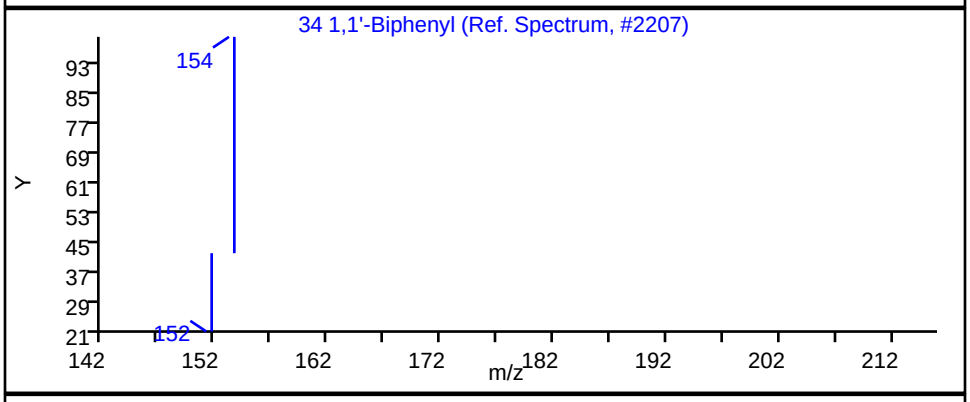
Client ID:	F6R33RE	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

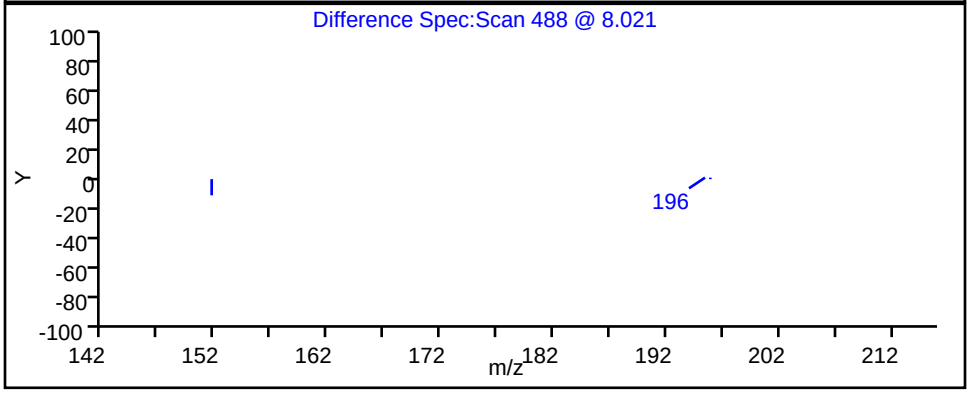
34 1,1'-Biphenyl











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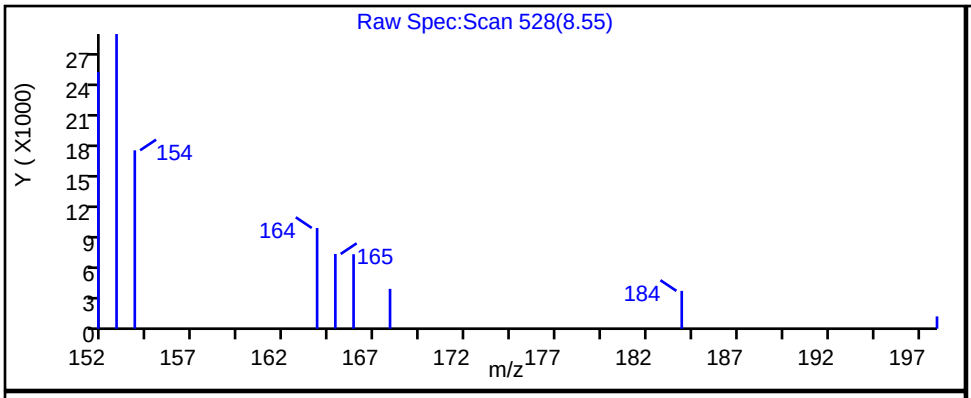
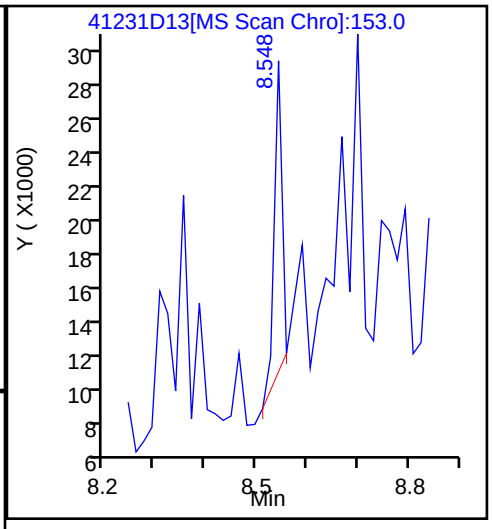
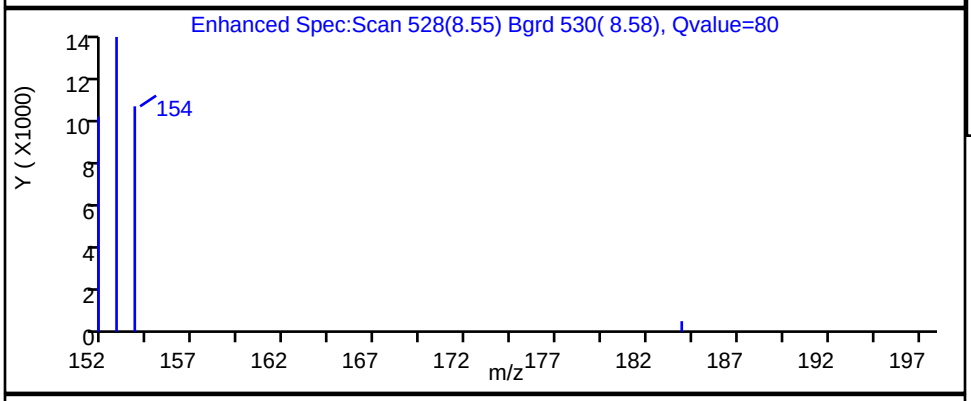
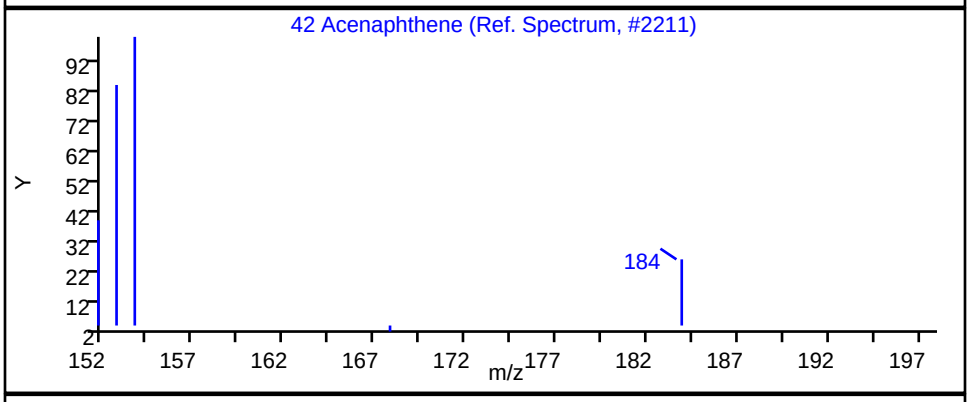
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

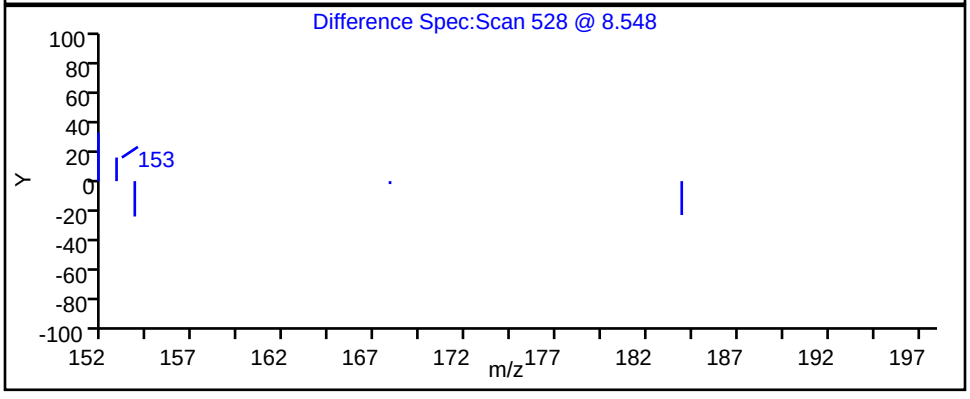
42 Acenaphthene











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Shealy Environmental Services

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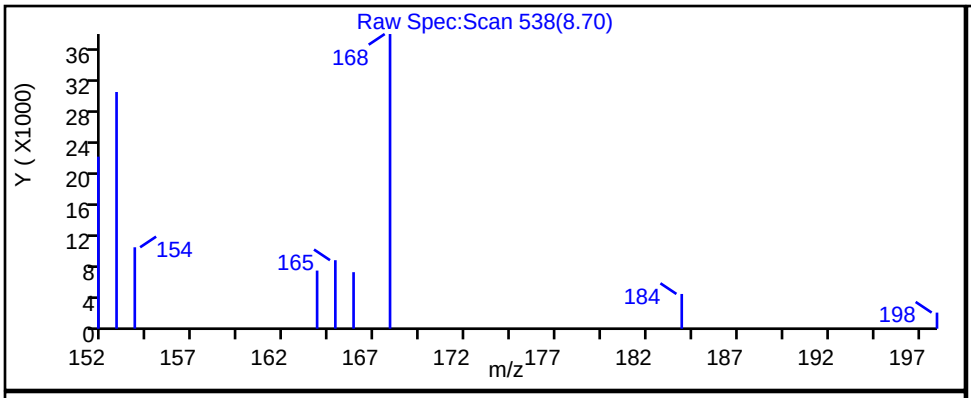
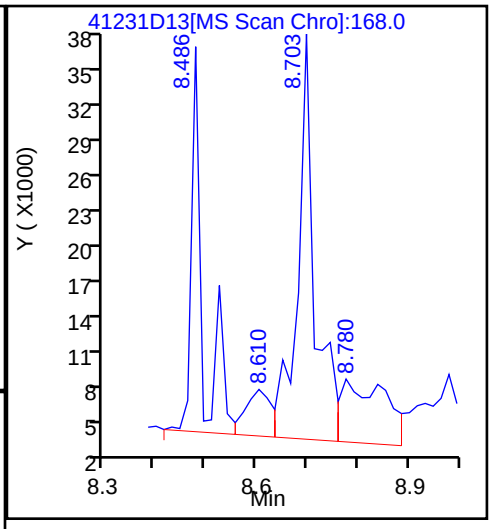
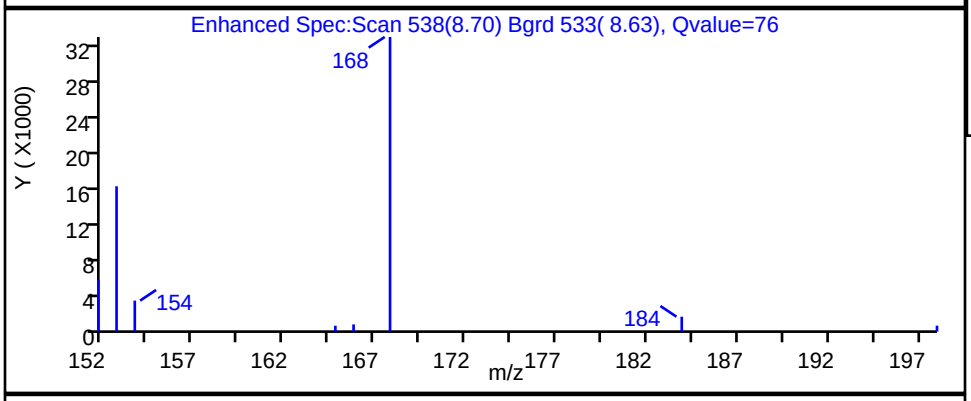
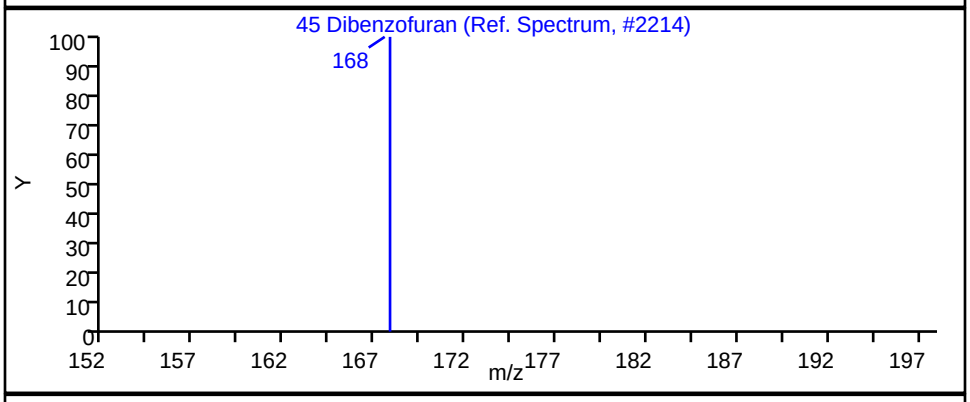
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

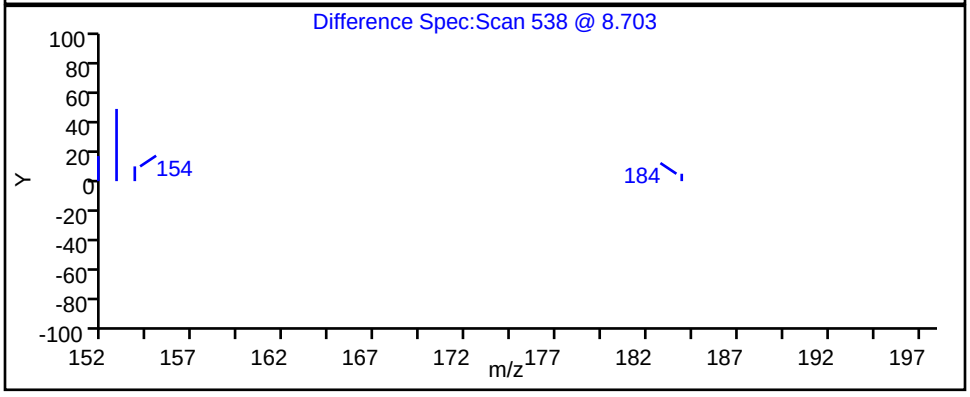
45 Dibenzofuran









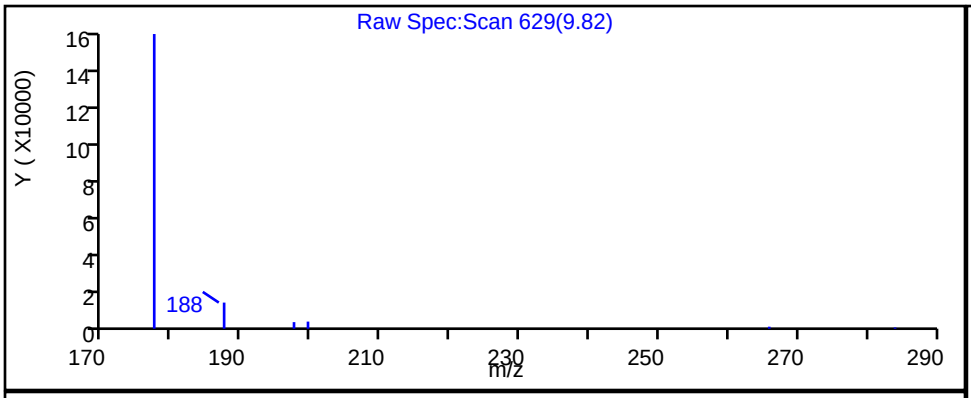


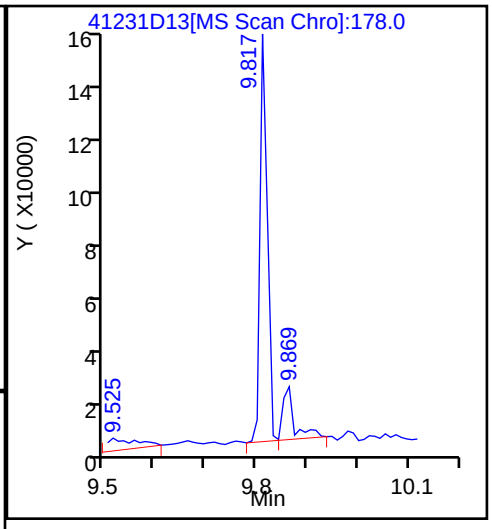
Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

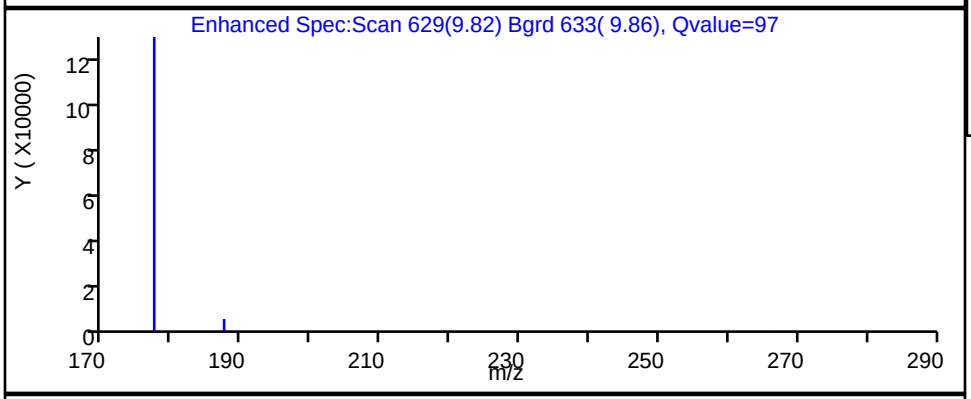
Shealy Environmental Services

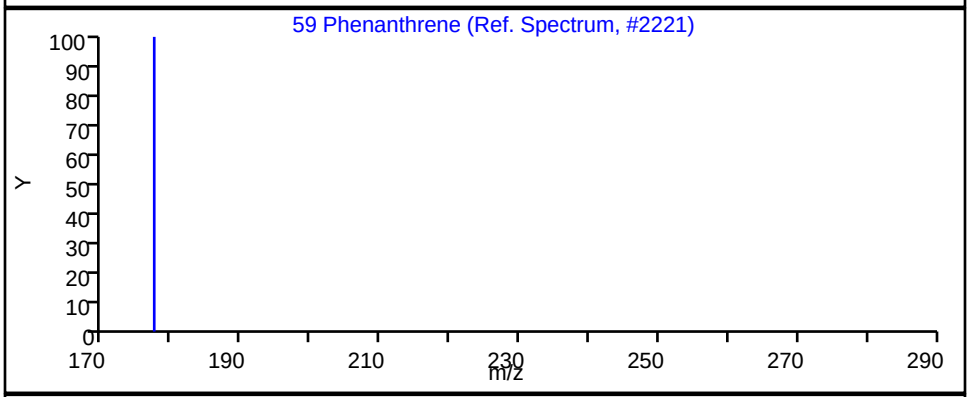
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D13.D		
Injection Date:	31-Dec-2015 17:33:30	Inst. ID:	msd4.i
Client ID:	F6R33RE	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

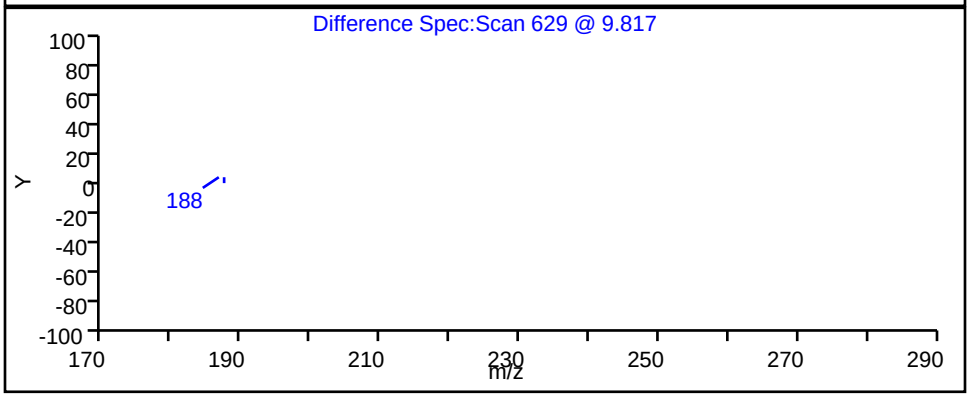
59 Phenanthrene









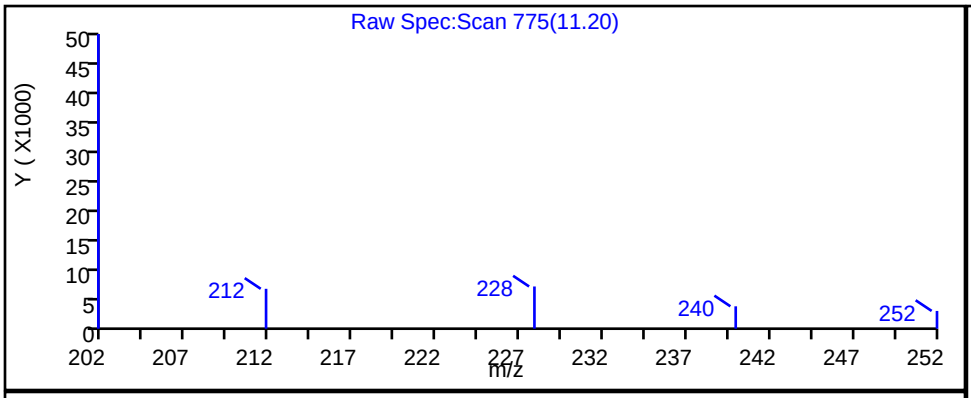


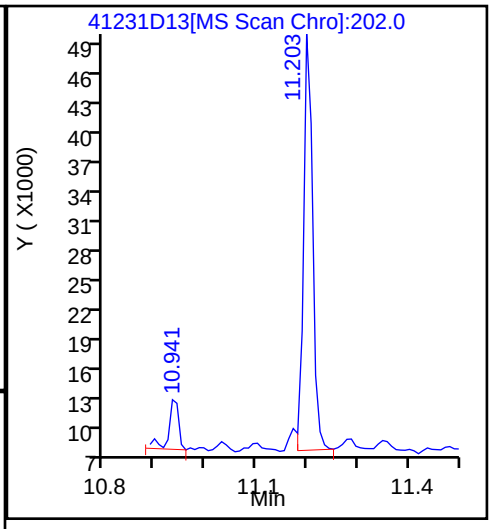
Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

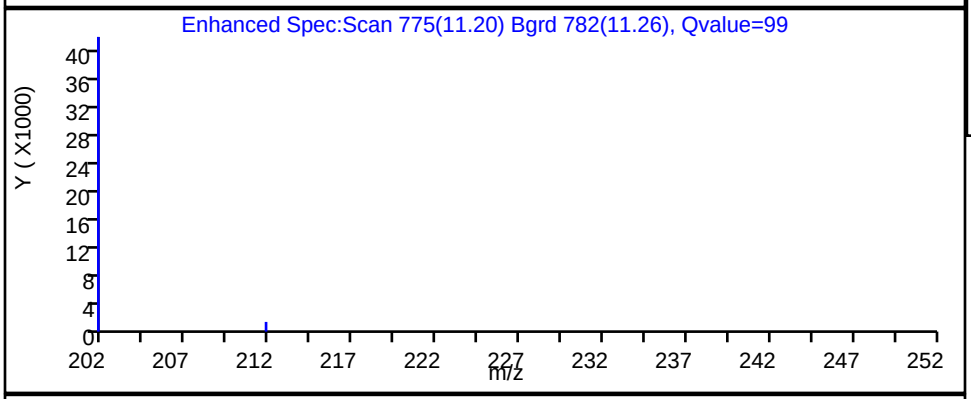
Shealy Environmental Services

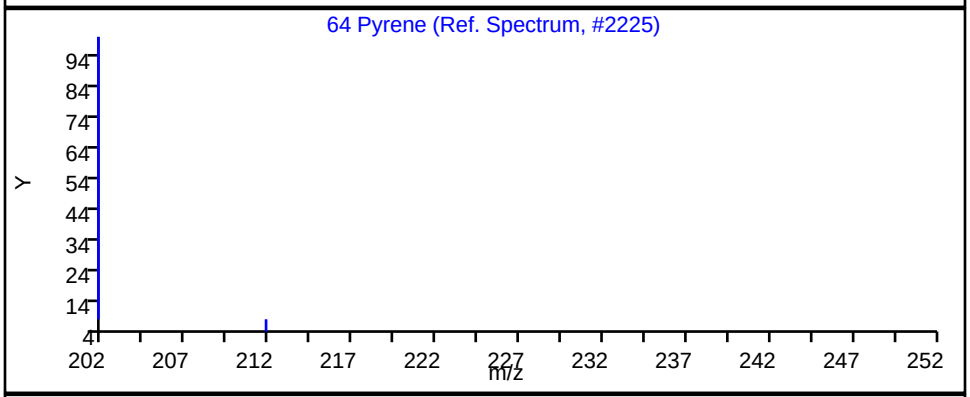
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D13.D		
Injection Date:	31-Dec-2015 17:33:30	Inst. ID:	msd4.i
Client ID:	F6R33RE	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

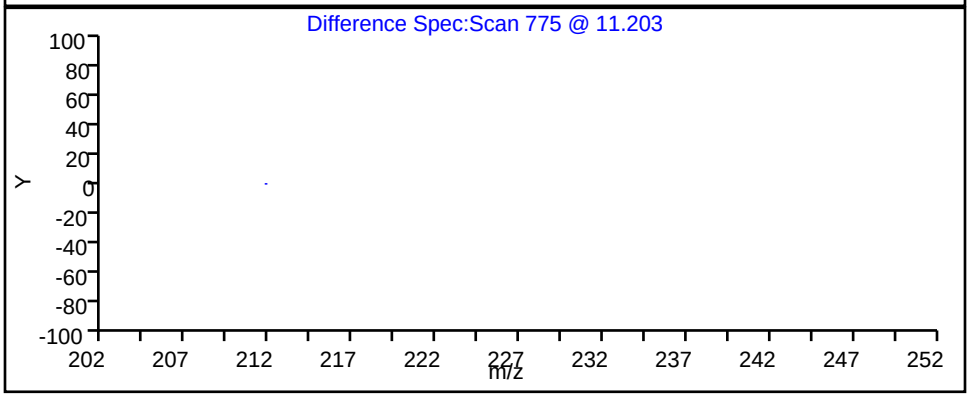
64 Pyrene











Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

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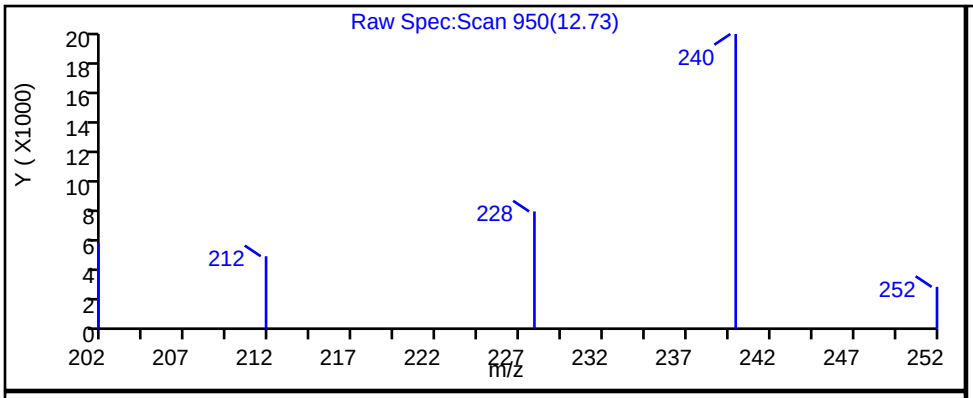
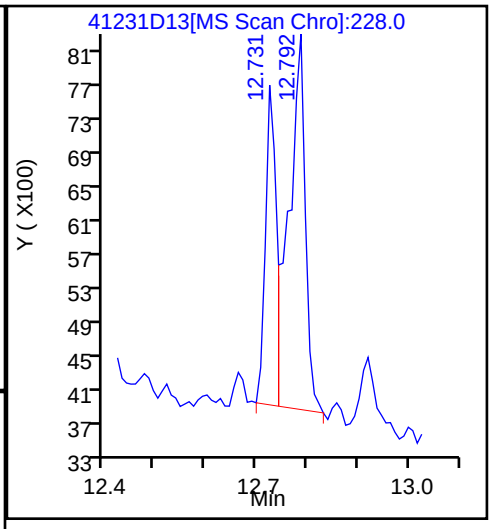
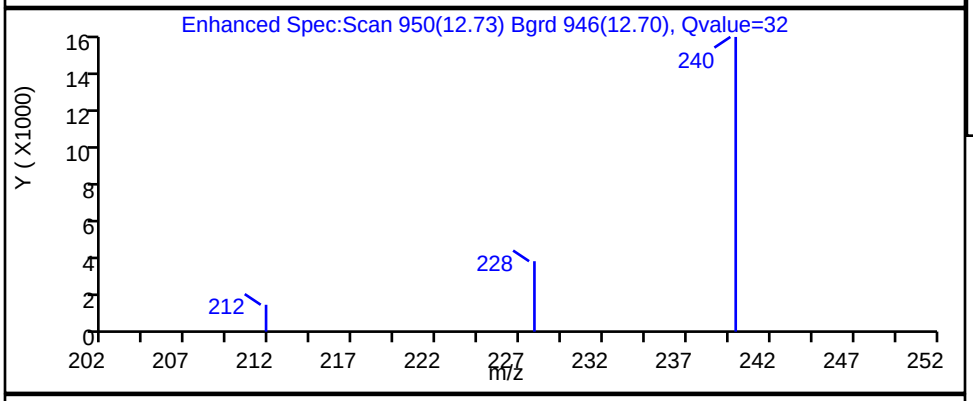
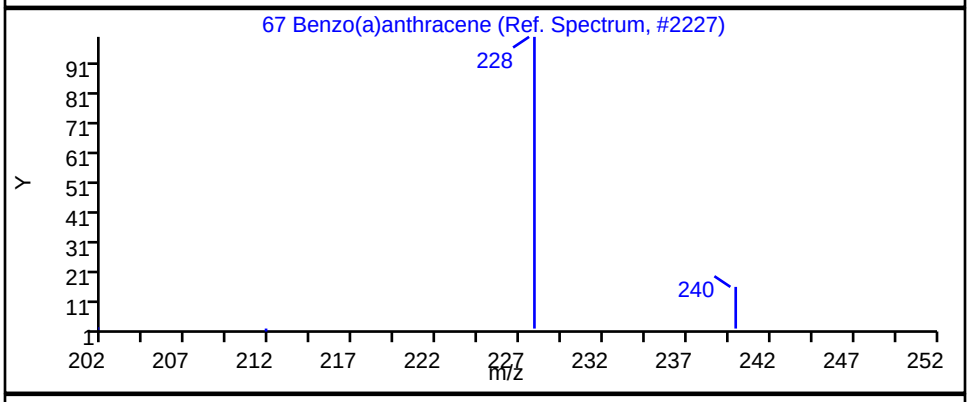
Injection Date:	31-Dec-2015 17:33:30	Inst. ID:	msd4.i
Client ID:	F6R33RE	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

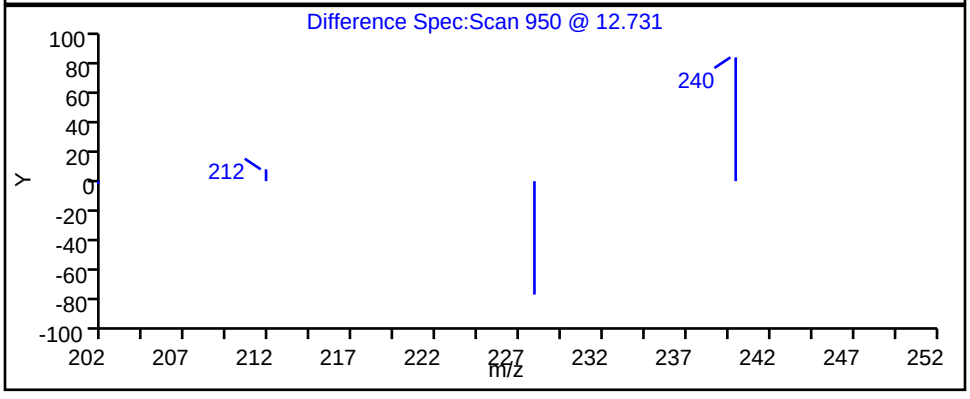
67 Benzo(a)anthracene









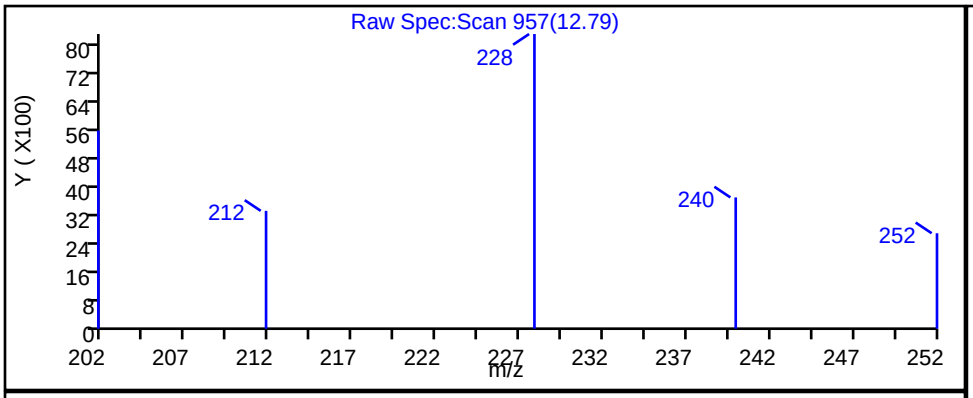


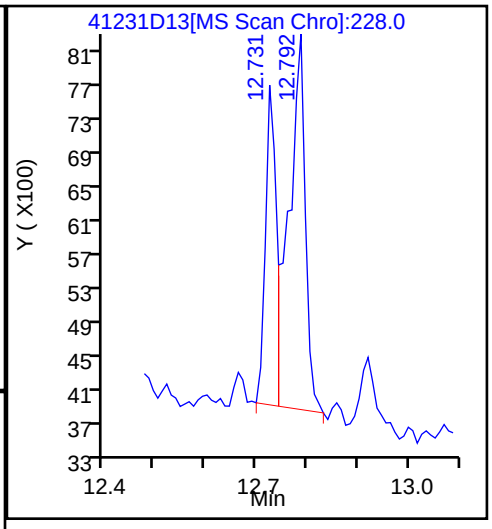
Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

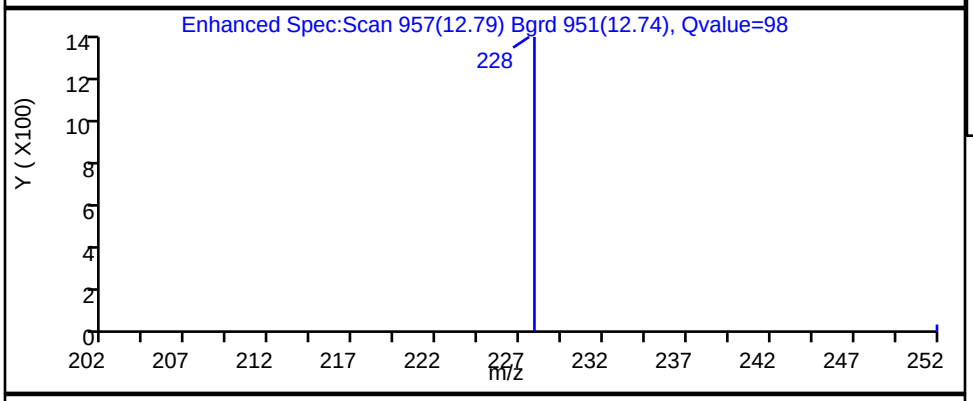
Shealy Environmental Services

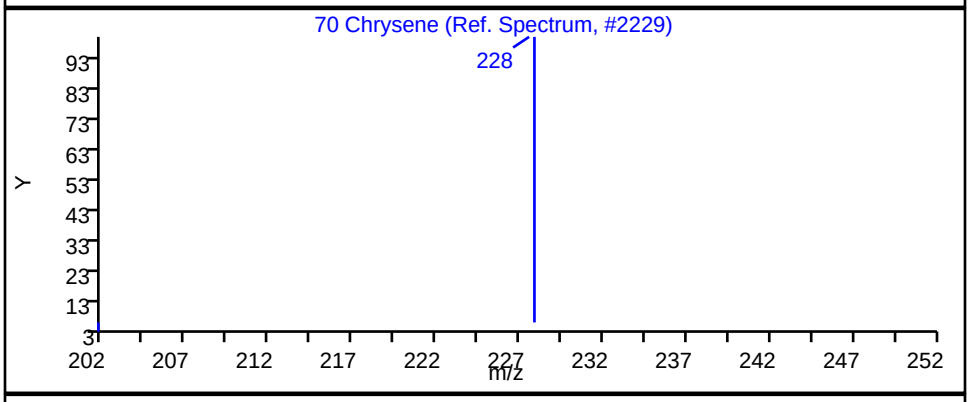
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D13.D		
Injection Date:	31-Dec-2015 17:33:30	Inst. ID:	msd4.i
Client ID:	F6R33RE	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

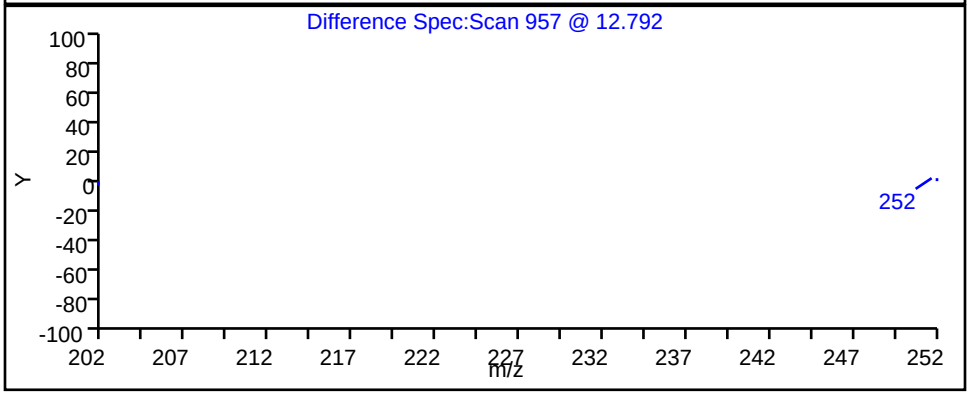
70 Chrysene











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Shealy Environmental Services

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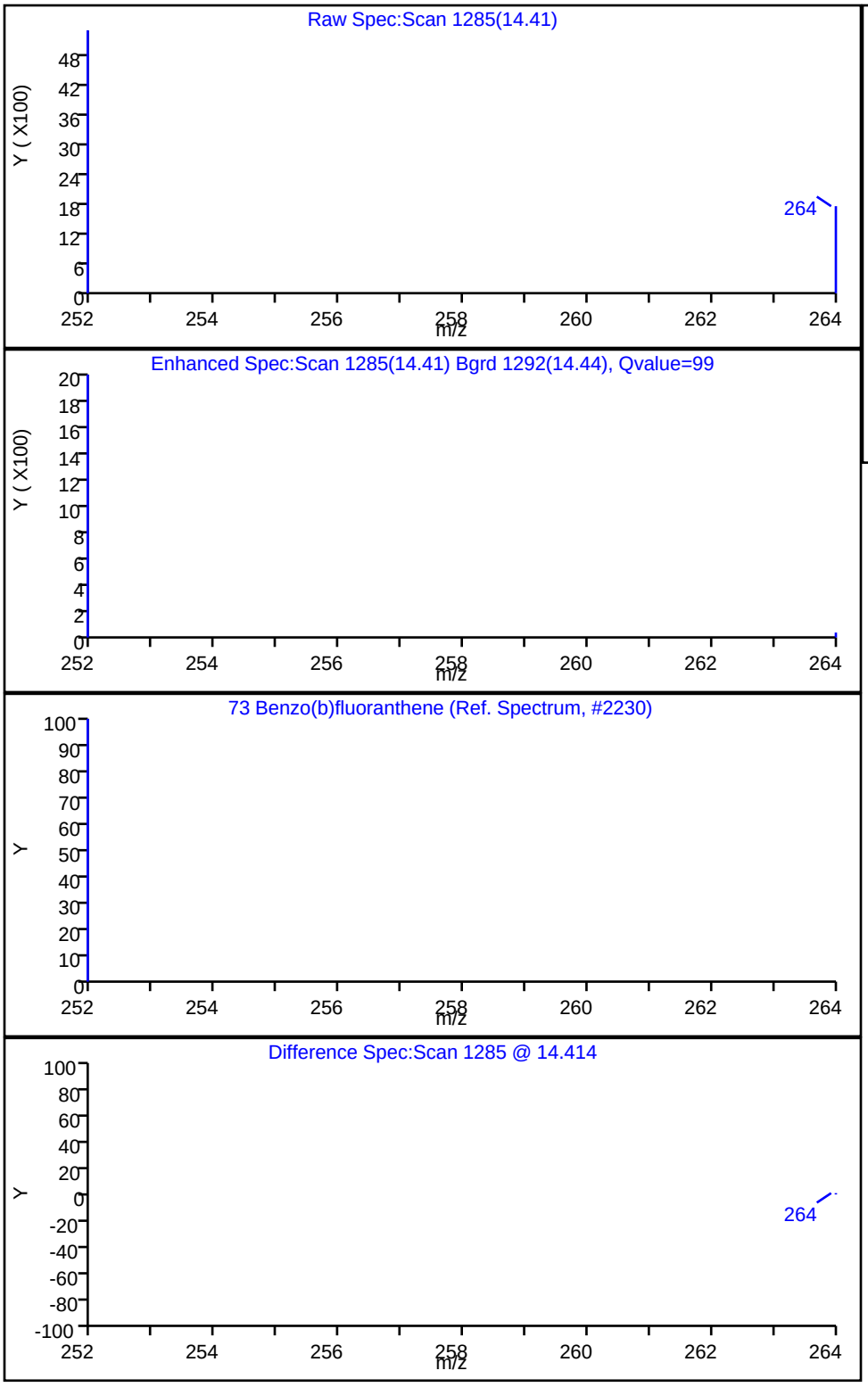
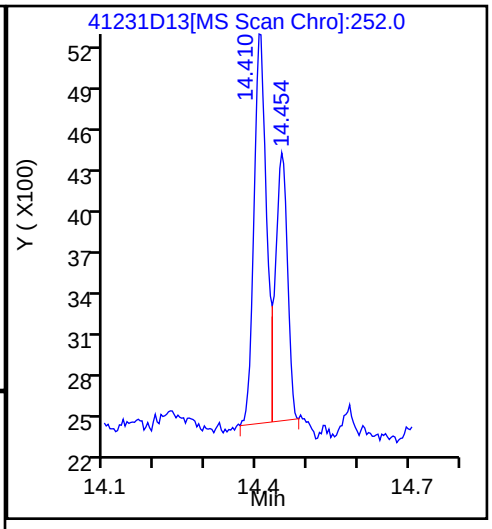
Injection Date:	31-Dec-2015 17:33:30	Inst. ID:	msd4.i
Client ID:	F6R33RE	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

73 Benzo(b)fluoranthene





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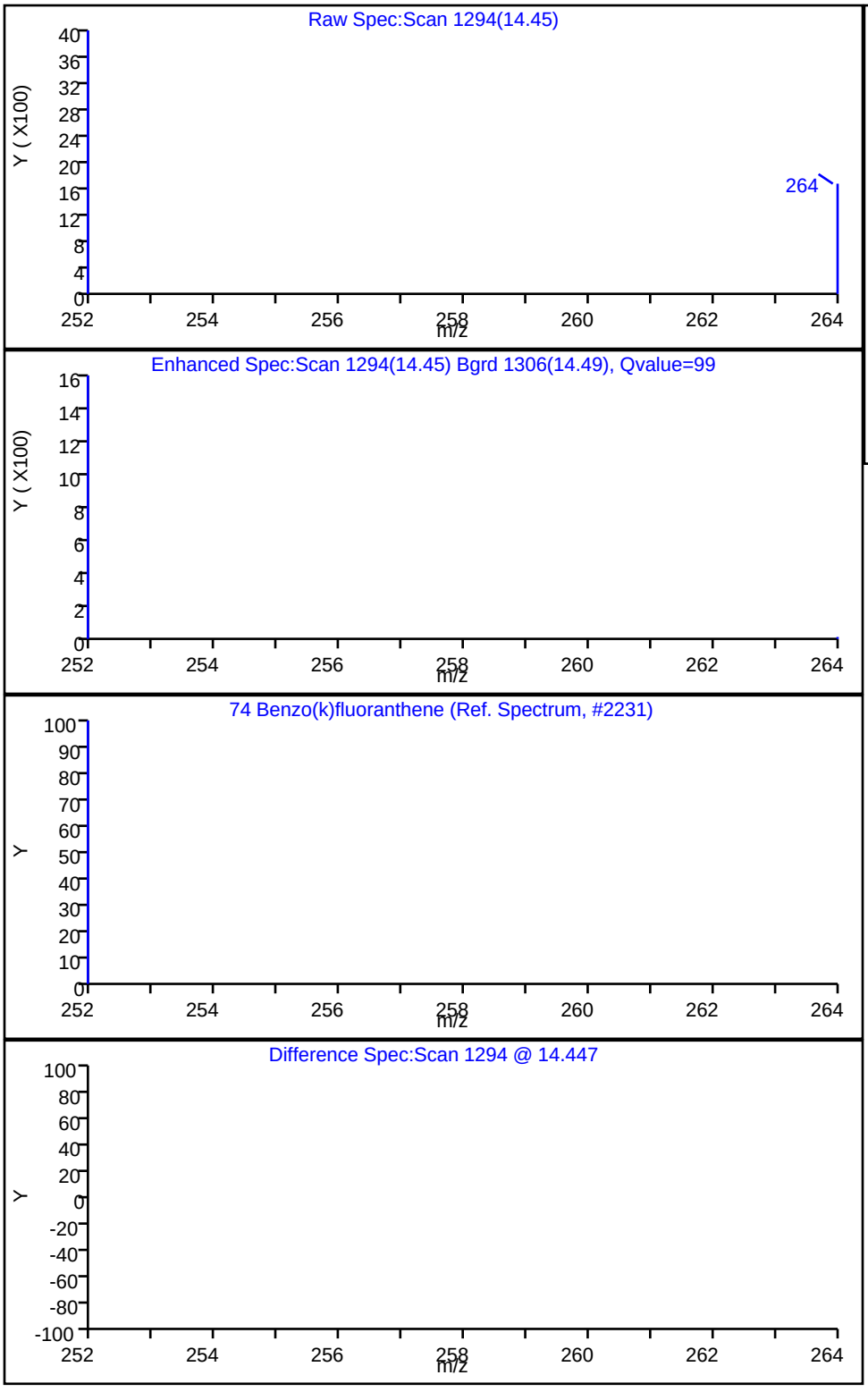
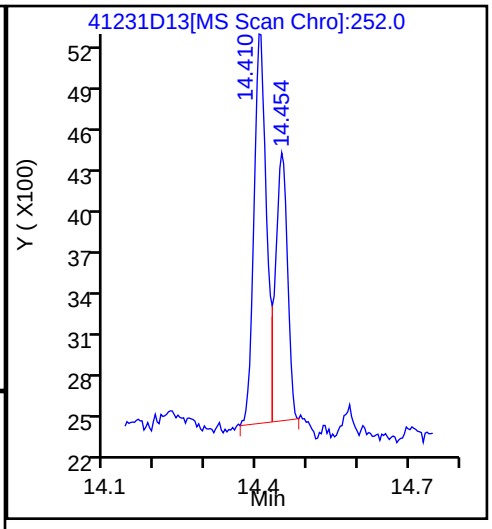
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D13.D		
Injection Date:	31-Dec-2015 17:33:30	Inst. ID:	msd4.i
Client ID:	F6R33RE	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

74 Benzo(k)fluoranthene



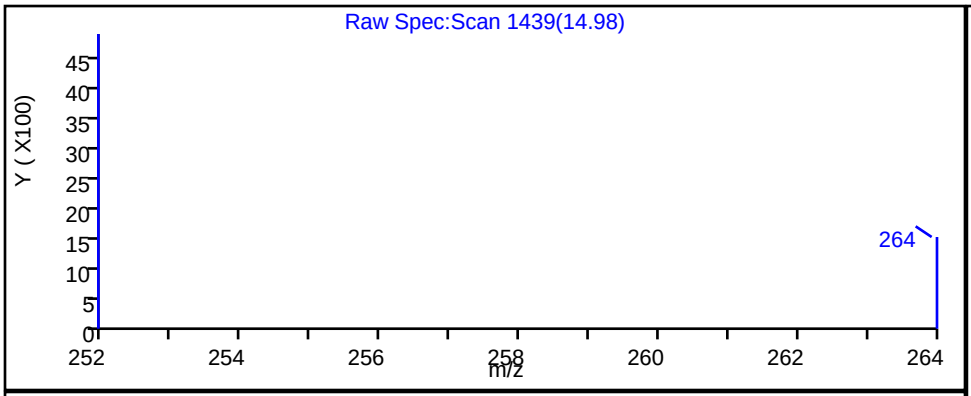


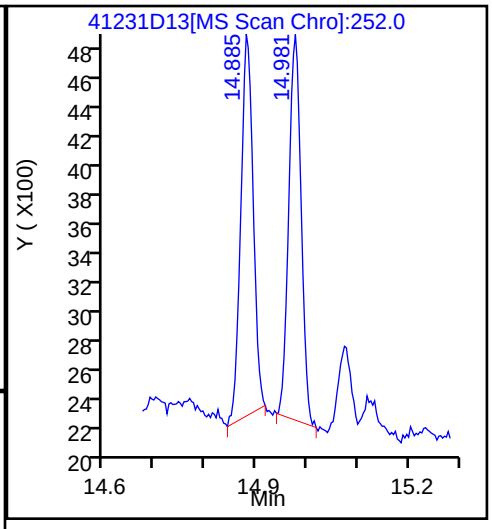
Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

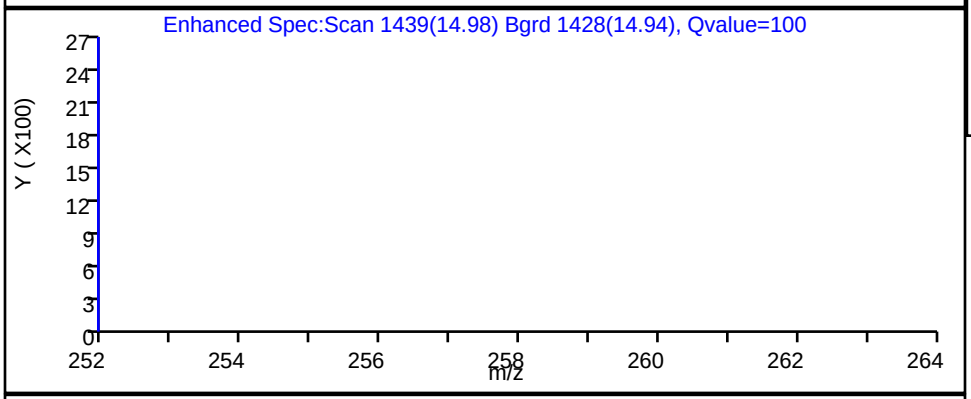
Shealy Environmental Services

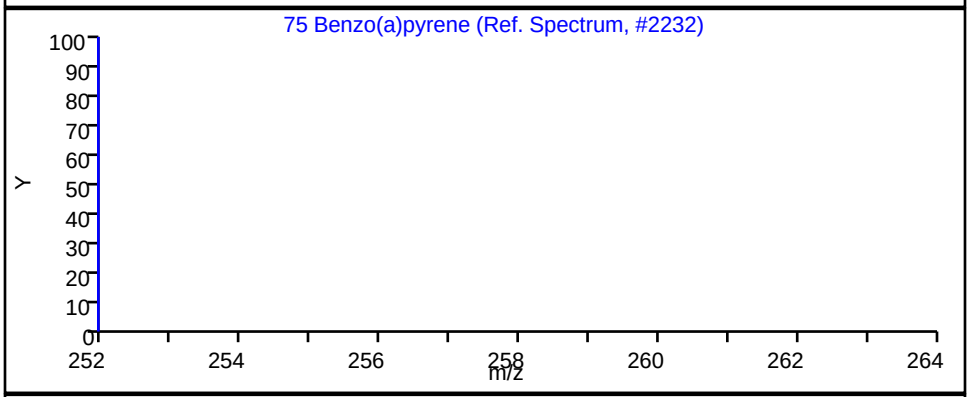
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D13.D		
Injection Date:	31-Dec-2015 17:33:30	Inst. ID:	msd4.i
Client ID:	F6R33RE	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

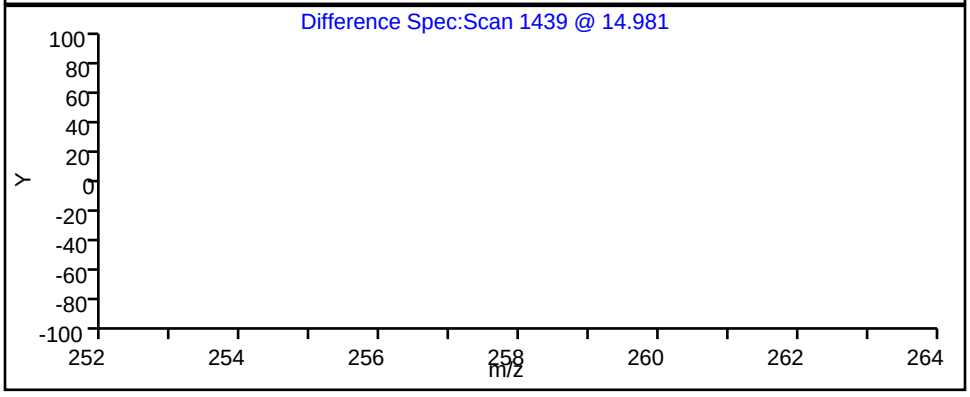
75 Benzo(a)pyrene











Report Date: 06-Jan-2016 10:12:43 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

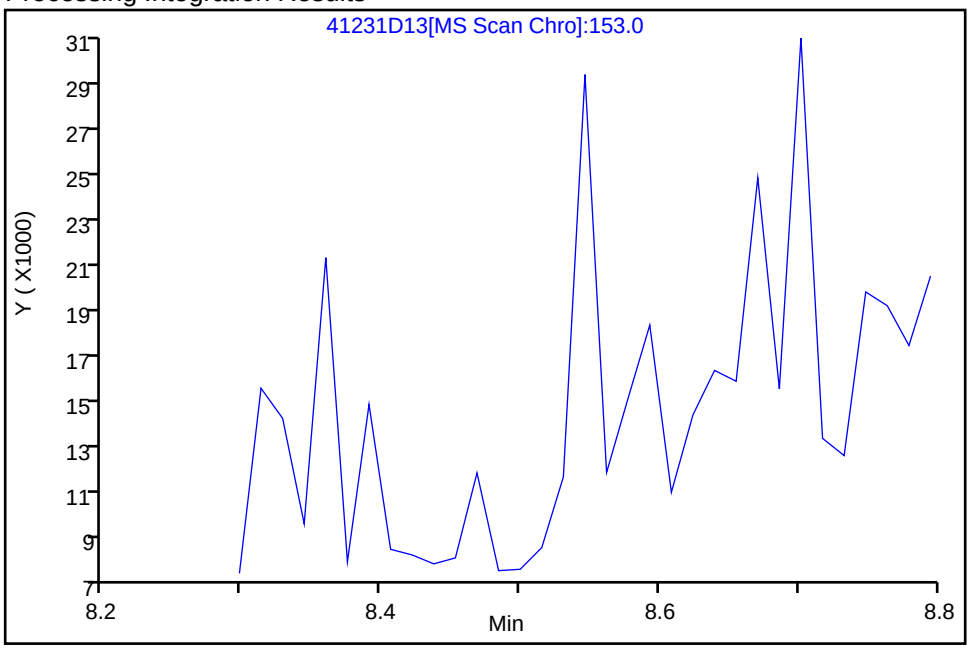
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D13.D		
Injection Date:	31-Dec-2015 17:33:30	Inst. ID:	msd4.i
Client ID:	F6R33RE	Lab ID:	QL16010-003
Sample Info:	4123115D, QL16010-003		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

42 Acenaphthene, CAS: 83-32-9

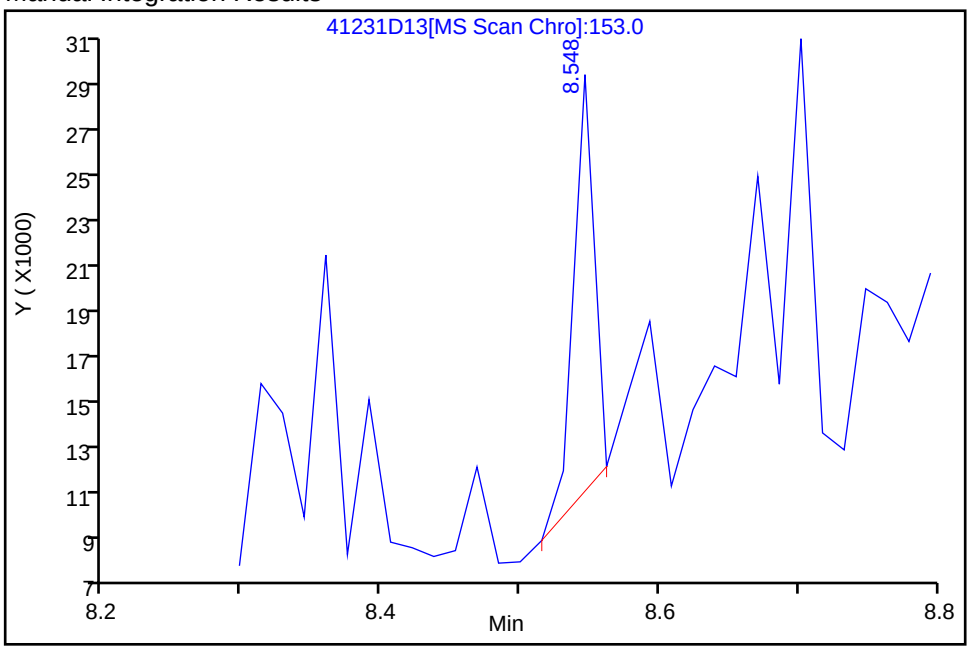
Not Detected
8.548

Processing Integration Results



Manual Integration Results

RT:	8.548
Area:	18560
Conc:	0.56081
Conc Units:	ug/L



Data Editor: rbh, 04-Jan-2016 09:21:30
Audit Action: Mint
Audit Reason: IAI

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R34

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-004

Sample wt/vol: 1030 (g/mL) mL Lab File ID: 41231D08

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 20.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	1.9	U
91-20-3	Naphthalene	16	
91-57-6	2-Methylnaphthalene	35	
208-96-8	Acenaphthylene	0.97	U
83-32-9	Acenaphthene	0.97	U
86-73-7	Fluorene	3.8	
87-86-5	Pentachlorophenol	3.9	U
85-01-8	Phenanthrene	4.0	
120-12-7	Anthracene	0.97	U
206-44-0	Fluoranthene	0.40	J
129-00-0	Pyrene	0.62	J
56-55-3	Benzo(a)anthracene	0.17	J
218-01-9	Chrysene	0.65	J
205-99-2	Benzo(b)fluoranthene	0.16	J
207-08-9	Benzo(k)fluoranthene	0.97	U
50-32-8	Benzo(a)pyrene	0.97	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.11	J
53-70-3	Dibenzo(a,h)anthracene	0.97	U
191-24-2	Benzo(g,h,i)perylene	0.17	J
132-64-9	Dibenzofuran	1.7	
118-74-1	Hexachlorobenzene	0.97	U
87-68-3	Hexachlorobutadiene	1.9	U
111-44-4	bis(2-Chloroethyl)ether	1.9	U
108-60-1	2,2'-Oxybis(1-chloropropane)	1.9	U
621-64-7	N-Nitrosodi-n-propylamine	0.97	U
67-72-1	Hexachloroethane	1.9	U
98-95-3	Nitrobenzene	1.9	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R34

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-004

Sample wt/vol: 1030 (g/mL) mL Lab File ID: 41231D08

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 20.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	1.9	U
88-06-2	2,4,6-Trichlorophenol	1.9	U
92-52-4	1,1'-Biphenyl	0.97	U
606-20-2	2,6-Dinitrotoluene	0.97	U
51-28-5	2,4-Dinitrophenol	19	U
121-14-2	2,4-Dinitrotoluene	0.97	U
534-52-1	4,6-Dinitro-2-methylphenol	1.9	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1.9	U
1912-24-9	Atrazine	1.9	U
91-94-1	3,3'-Dichlorobenzidine	1.9	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D08.D		
Lab Sample ID:	QL16010-004	Client Sample ID:	F6R34
Injection Date:	31-Dec-2015 15:19:30	Dil. Factor:	20.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4123115D, QL16010-004		
Misc. Info:	20X		
Method:	\\Organics\HH\chem\msd4.i\4123115D.b\Sim2544.m		
Method Date:	04-Jan-2016 17:23:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	20.000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1030.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	04-Jan-2016 09:14:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 109 1,4-Dioxane-d8	96.0	3.744	3.744	0.000	477	0.004182	0.08120	e
108 1,4-Dioxane	88.0		3.770		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.718	5.718	0.000	178090	0.83017	16.120	R
5 bis(2-Chloroethyl)Ether	93.0		5.753		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	79480	0.40000	7.7670	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.278		ND			
15 Hexachloroethane	117.0		6.424		ND			
$ 16 Nitrobenzene-d5	128.0	6.426	6.445	-0.019	59019	0.54619	10.606	R
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.935	6.917	0.018	23365	0.10233	1.9870	R
* 23 Naphthalene-d8	136.0	7.048	7.048	0.000	395395	0.40000	7.7670	
24 Naphthalene	128.0	7.066	7.066	0.000	858291	0.83698	16.252	
25 4-Chloroaniline	127.0		7.083		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.584	7.604	-0.020	113445	0.20751	4.0293	R
29 2-Methylnaphthalene	142.0	7.636	7.636	0.000	1102108	1.8202	35.344	
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.865		ND			
34 1,1'-Biphenyl	154.0		8.010		ND			
39 2,6-Dinitrotoluene	165.0		8.301		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	178735	0.40000	7.7670	
42 Acenaphthene	153.0		8.548		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
43 2,4-Dinitrophenol	184.0		8.548		ND			
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0	8.703	8.703	0.000	76610	0.08550	1.6602	M
48 Fluorene	166.0	8.997	8.996	0.000	122501	0.19380	3.7630	
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.463		ND			
57 Pentachlorophenol	266.0		9.629		ND			
* 58 Phenanthrene-d10	188.0	9.796	9.796	0.000	390851	0.40000	7.7670	
59 Phenanthrene	178.0	9.817	9.817	0.000	217211	0.20406	3.9623	
60 Anthracene	178.0		9.859		ND			
$ 116 Flouranthene-d10	212.0	10.872	10.924	-0.052	6216	0.006032	0.11712	e
63 Fluoranthene	202.0	10.941	10.941	0.000	23716	0.02053	0.39863	e
64 Pyrene	202.0	11.203	11.203	0.000	35447	0.03175	0.61651	e
68 3,3'-Dichlorobenzidine	252.0		12.644		ND			
67 Benzo(a)anthracene	228.0	12.731	12.731	0.000	8858	0.008763	0.17016	e
* 69 Chrysene-d12	240.0	12.748	12.748	0.000	407183	0.40000	7.7670	
70 Chrysene	228.0	12.766	12.783	-0.017	33747	0.03364	0.65312	e
73 Benzo(b)fluoranthene	252.0	14.410	14.407	0.003	9464	0.007989	0.15513	e
74 Benzo(k)fluoranthene	252.0		14.447		ND			
75 Benzo(a)pyrene	252.0		14.974		ND			
* 76 Perylene-d12	264.0	15.077	15.073	0.004	393100	0.40000	7.7670	I
77 Indeno(1,2,3-cd)pyrene	276.0	17.309	17.305	0.003	7033	0.005759	0.11182	e
78 Dibenzo(a,h)anthracene	278.0		17.323		ND			
79 Benzo(g,h,i)perylene	276.0	17.993	17.986	0.007	8824	0.008622	0.16742	e

QC Flag Legend

Processing Flags

e - Compound Concentration Below Quantitation Limit

R - Spike/Surrogte Fails %Recovery Test

I - Istd Fails Area Recovery Test

Review Flags

M - Compound Hit/Peak Manually Integrated

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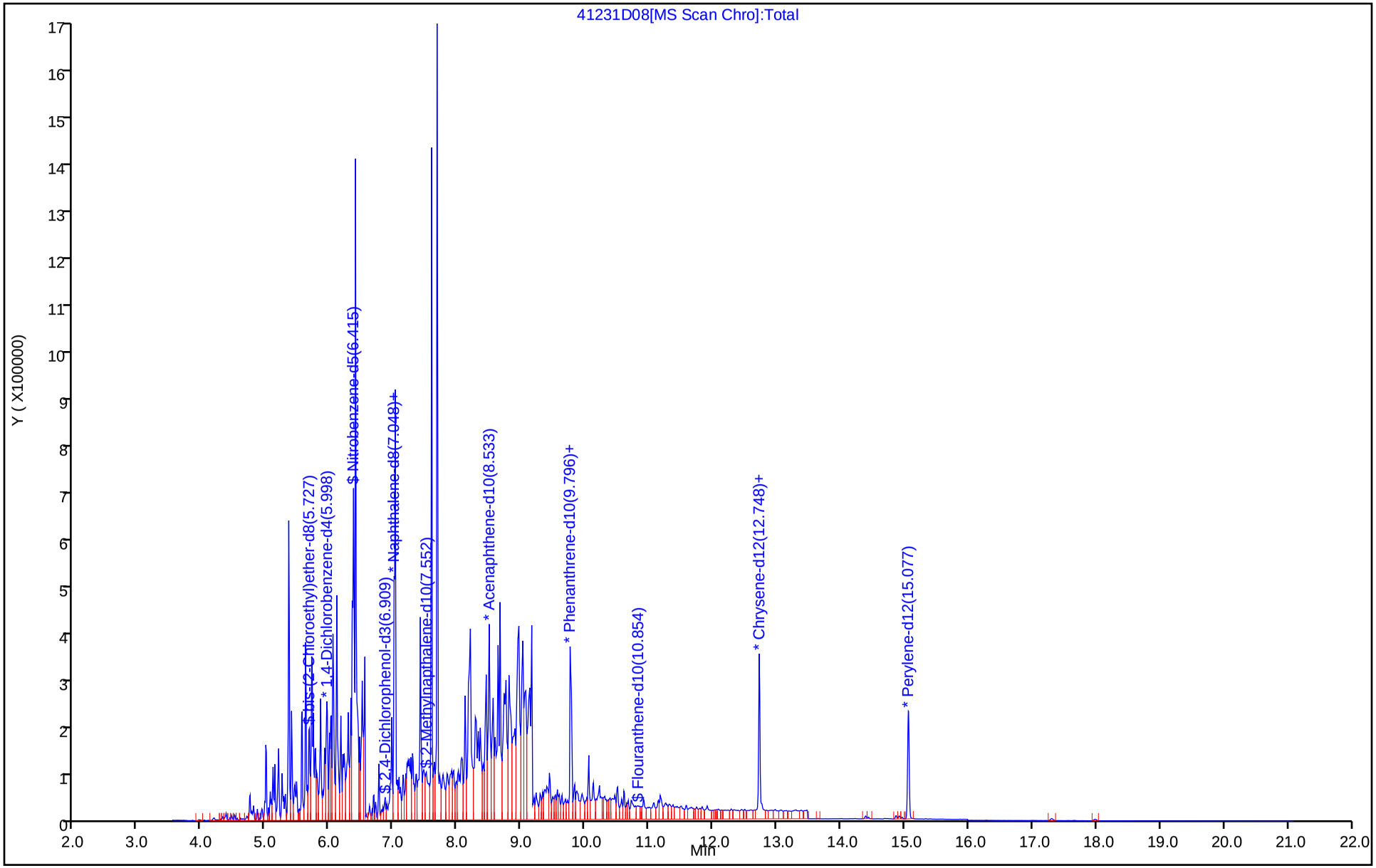
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D08.D				
Injection Date:	31-Dec-2015 15:19:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R34	Lab ID:	QL16010-004		
Sample Info:	4123115D, QL16010-004				
Injection Vol.	2.00 1	Dil. Factor:	20.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



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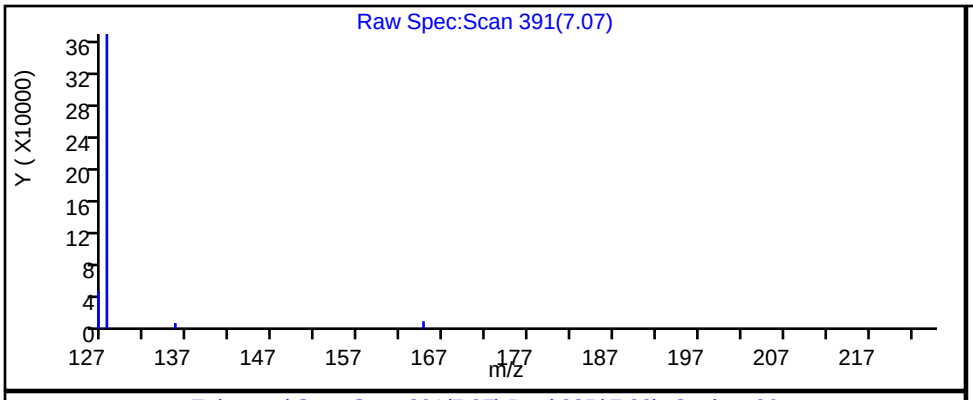
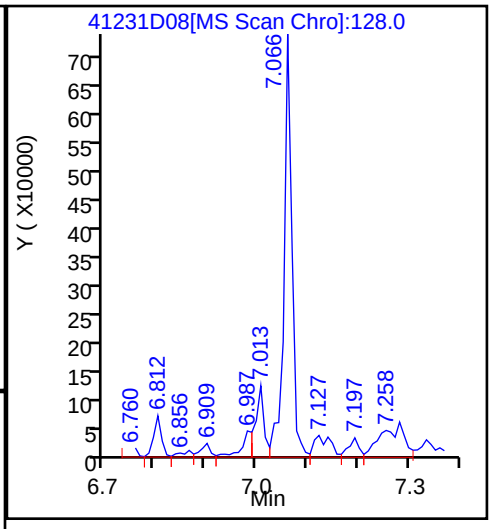
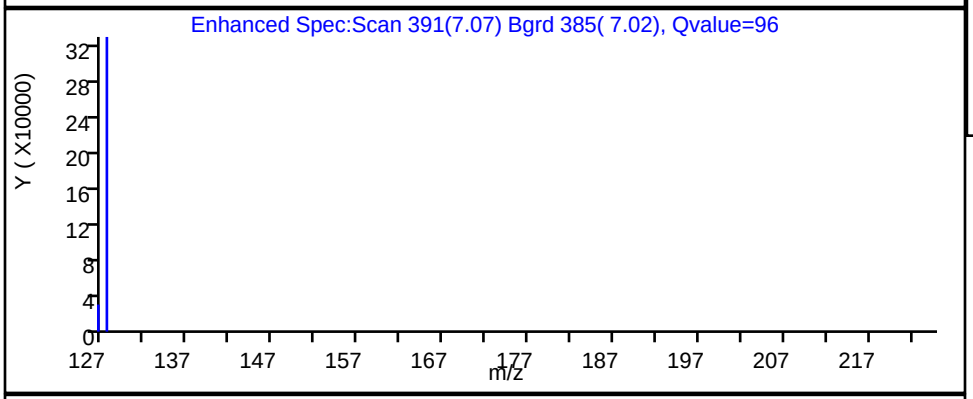
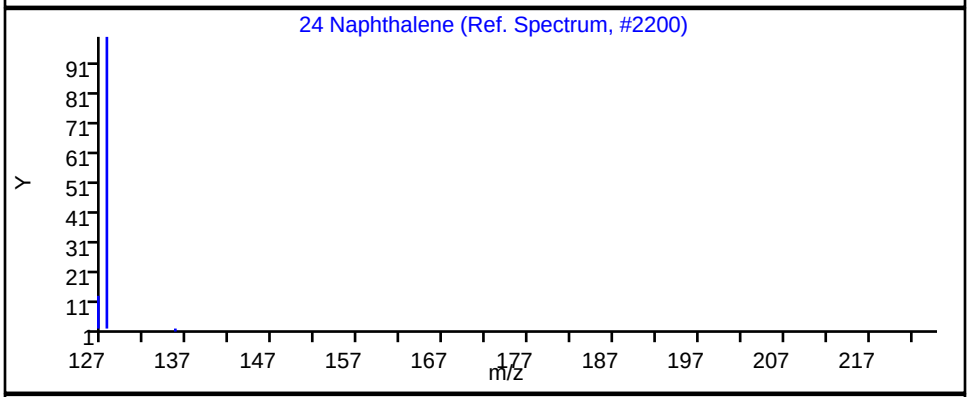
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

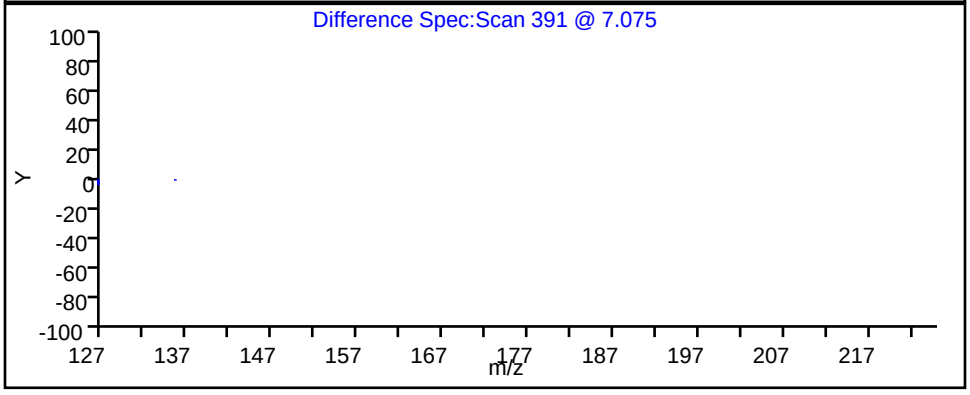
24 Naphthalene











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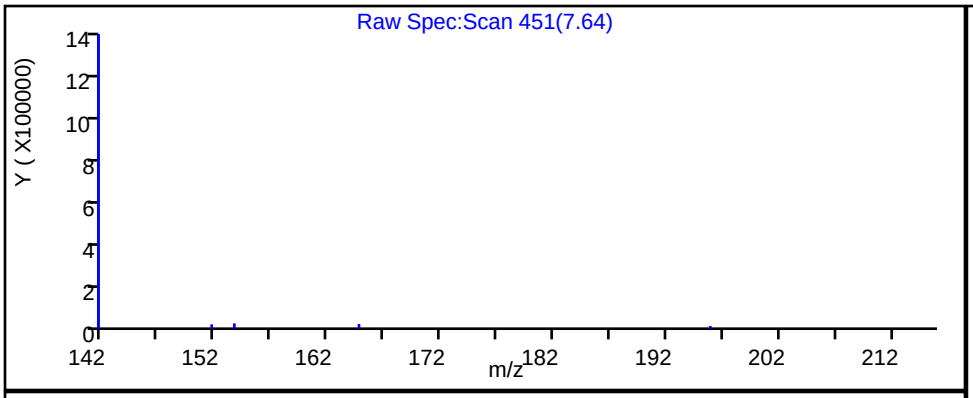
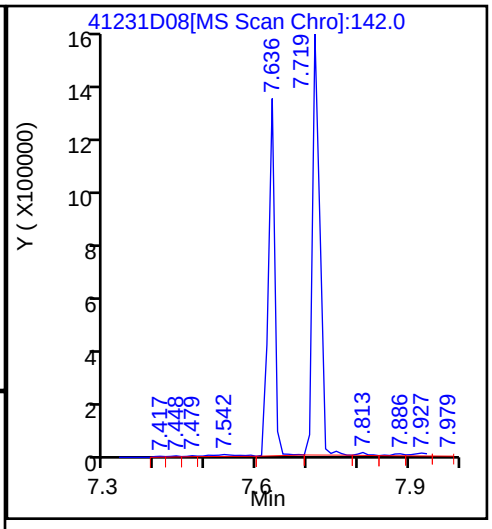
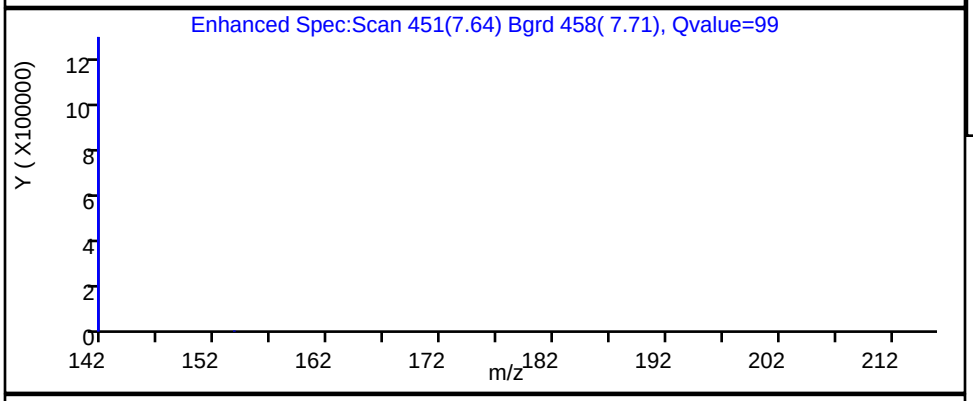
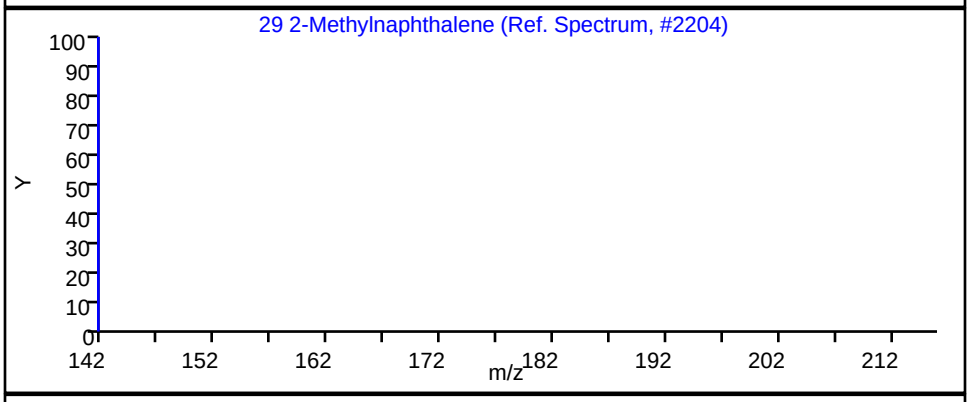
Sample Info:	4123115D, QL16010-004		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

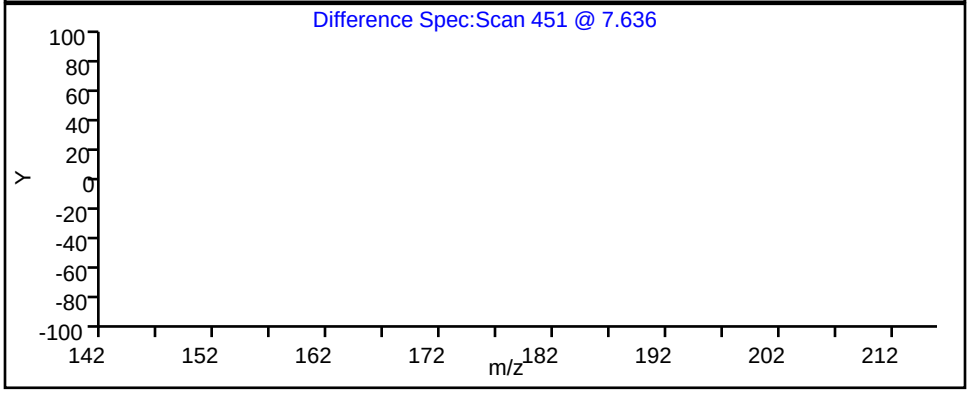
29 2-Methylnaphthalene











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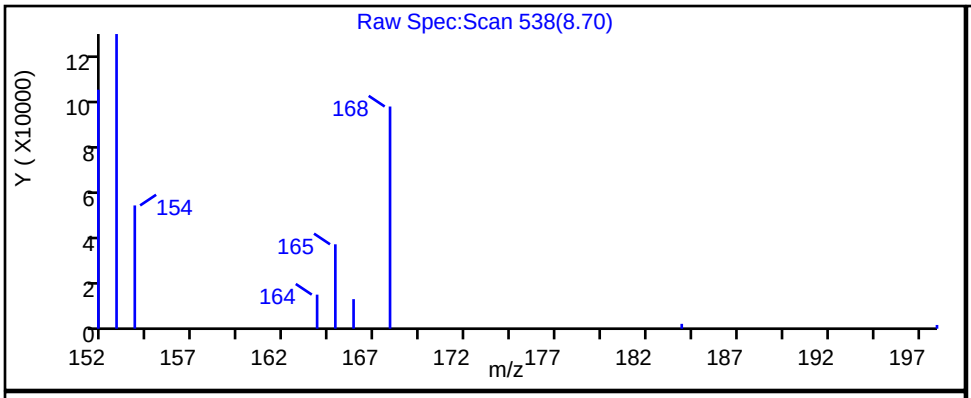
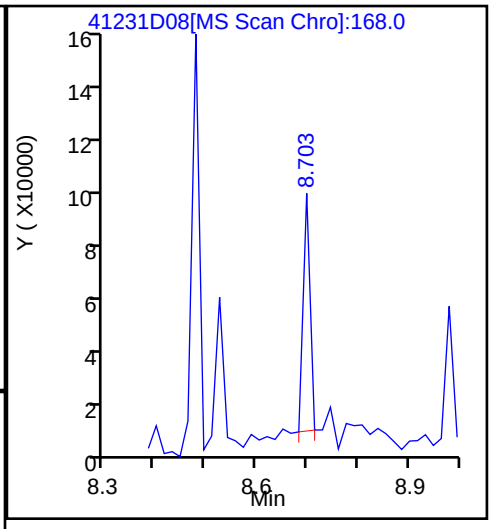
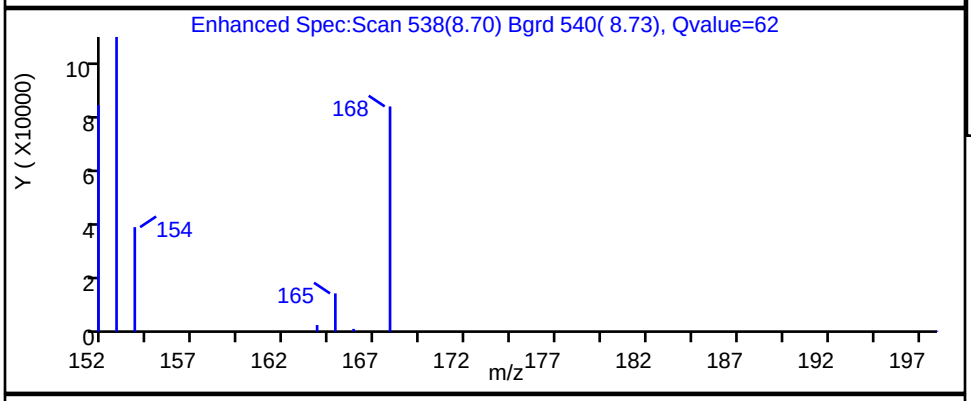
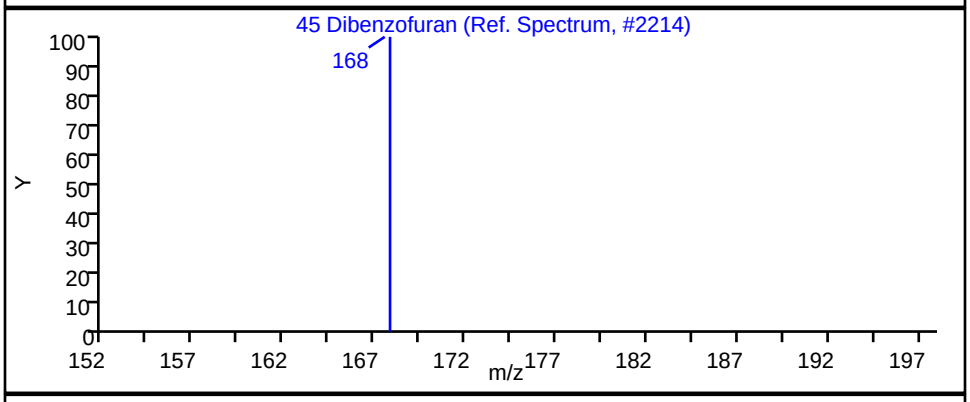
Sample Info:	4123115D, QL16010-004		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

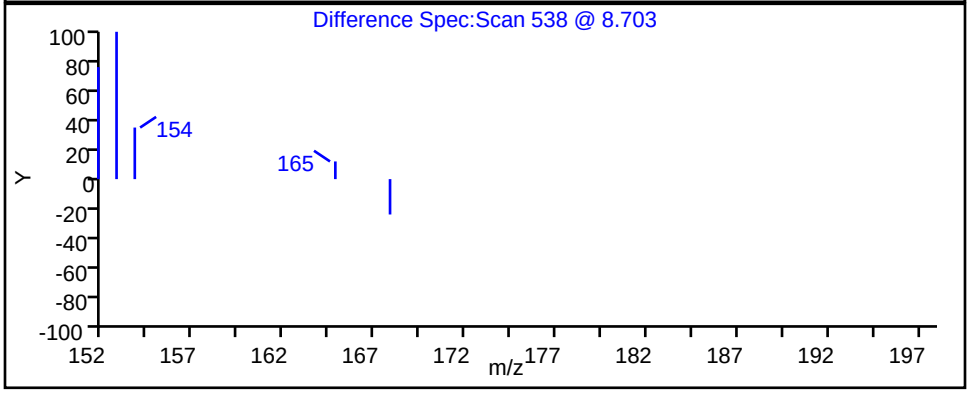
45 Dibenzofuran











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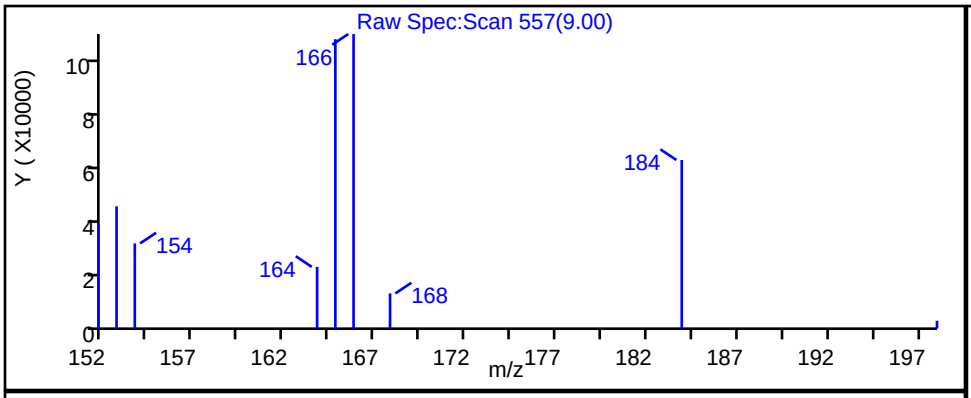
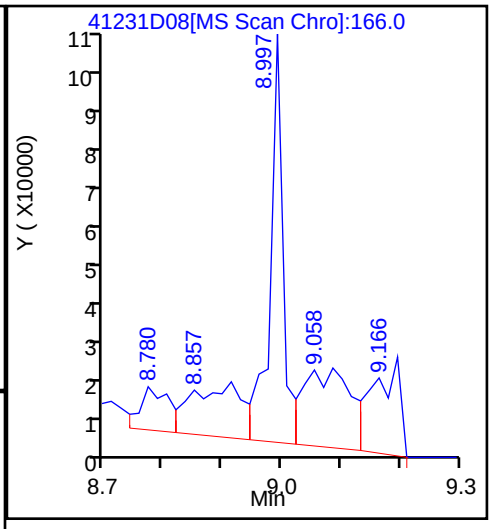
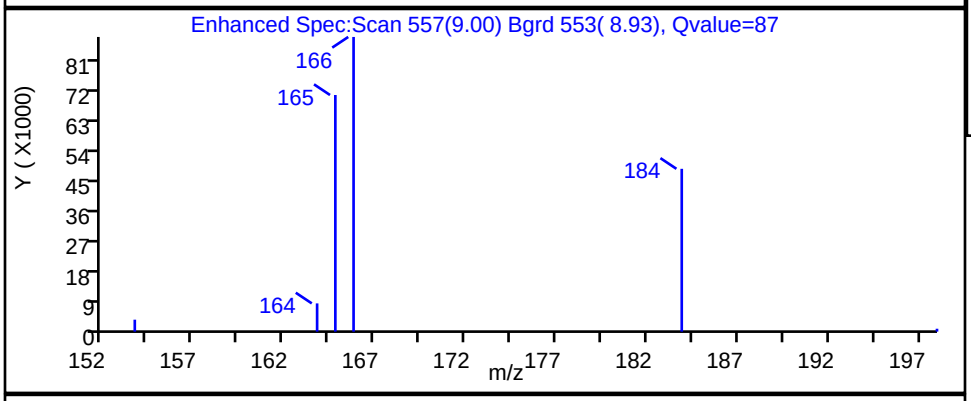
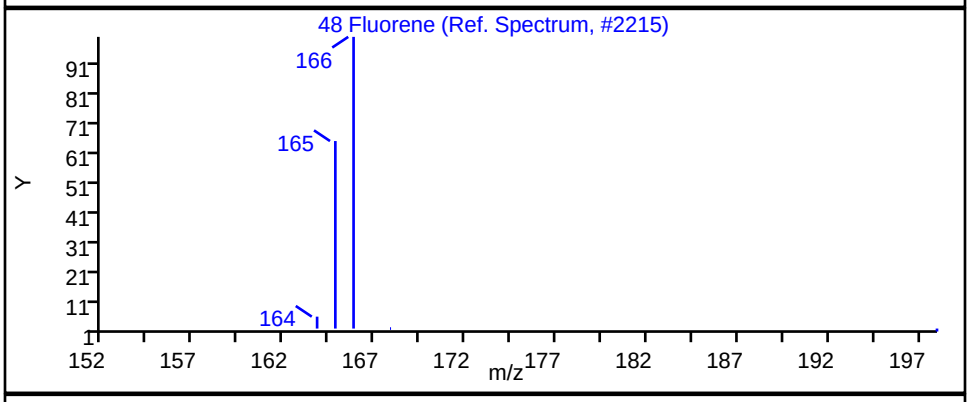
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

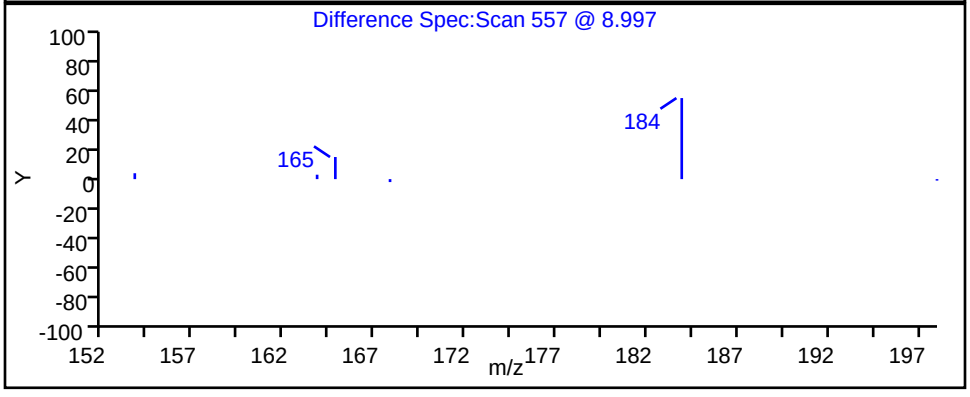
48 Fluorene











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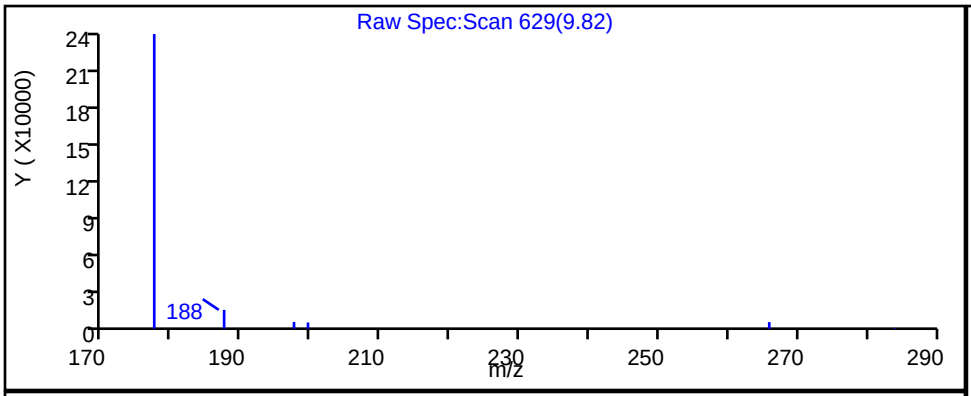
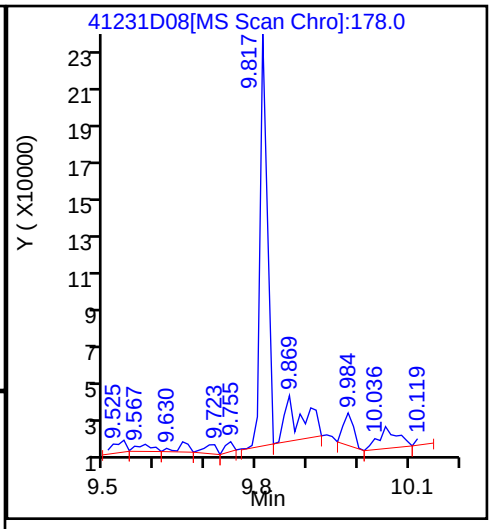
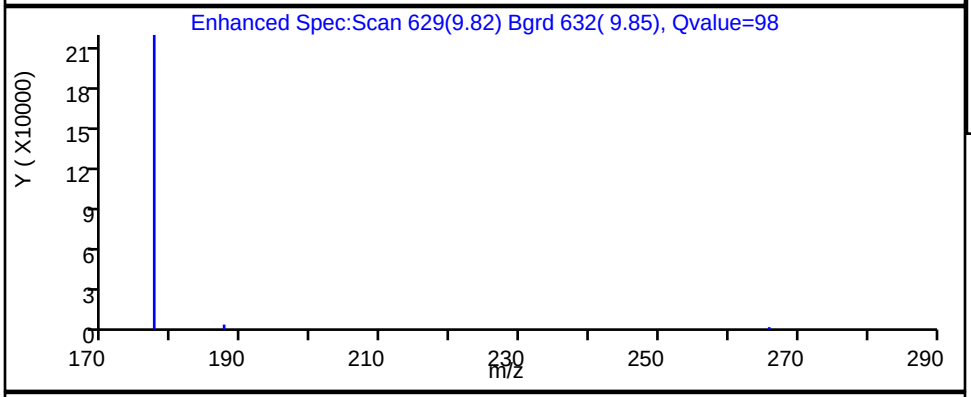
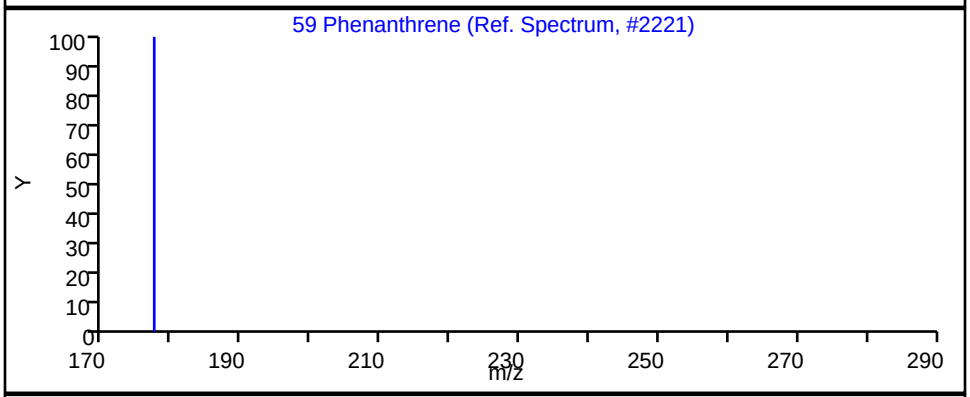
Sample Info:	4123115D, QL16010-004		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

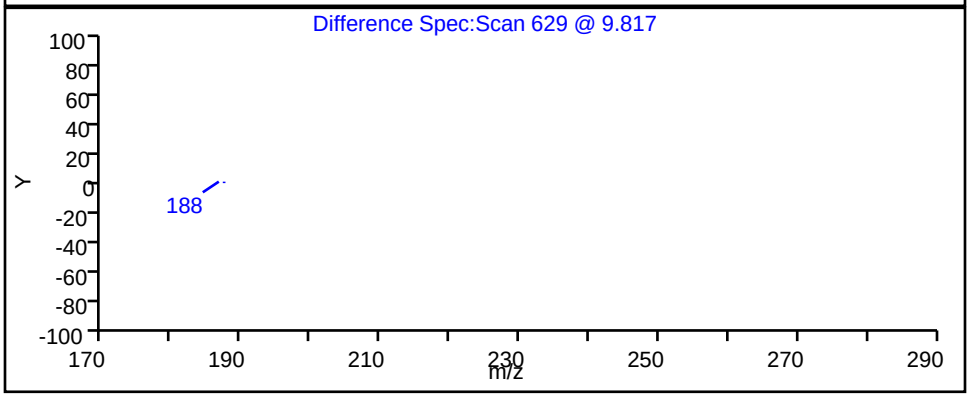
59 Phenanthrene











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Shealy Environmental Services

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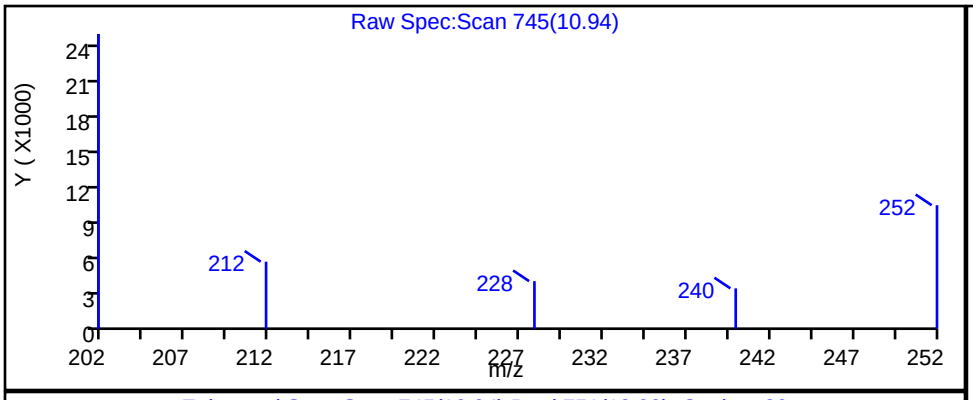
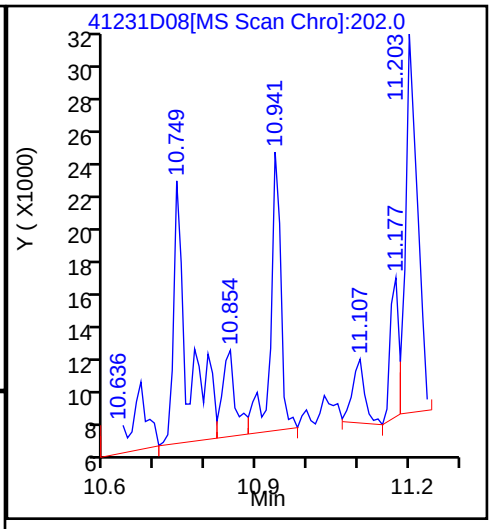
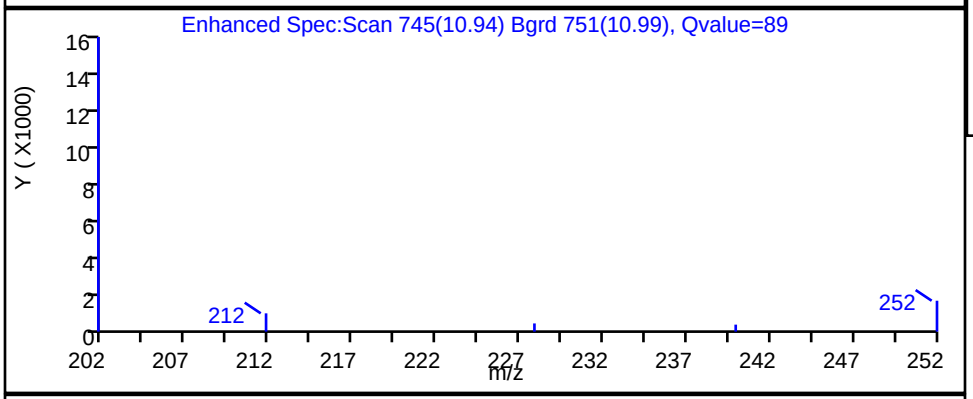
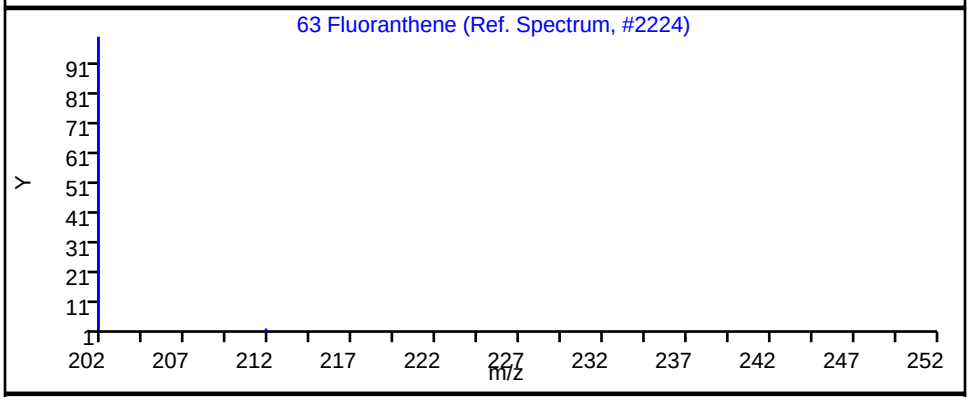
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

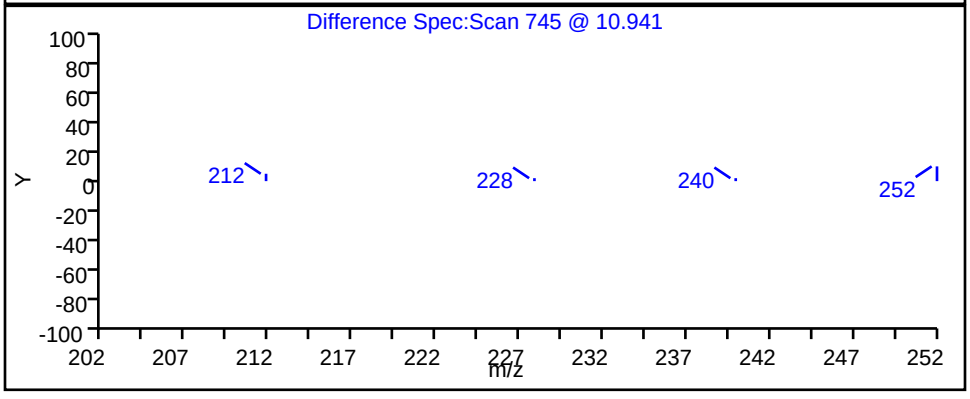
63 Fluoranthene











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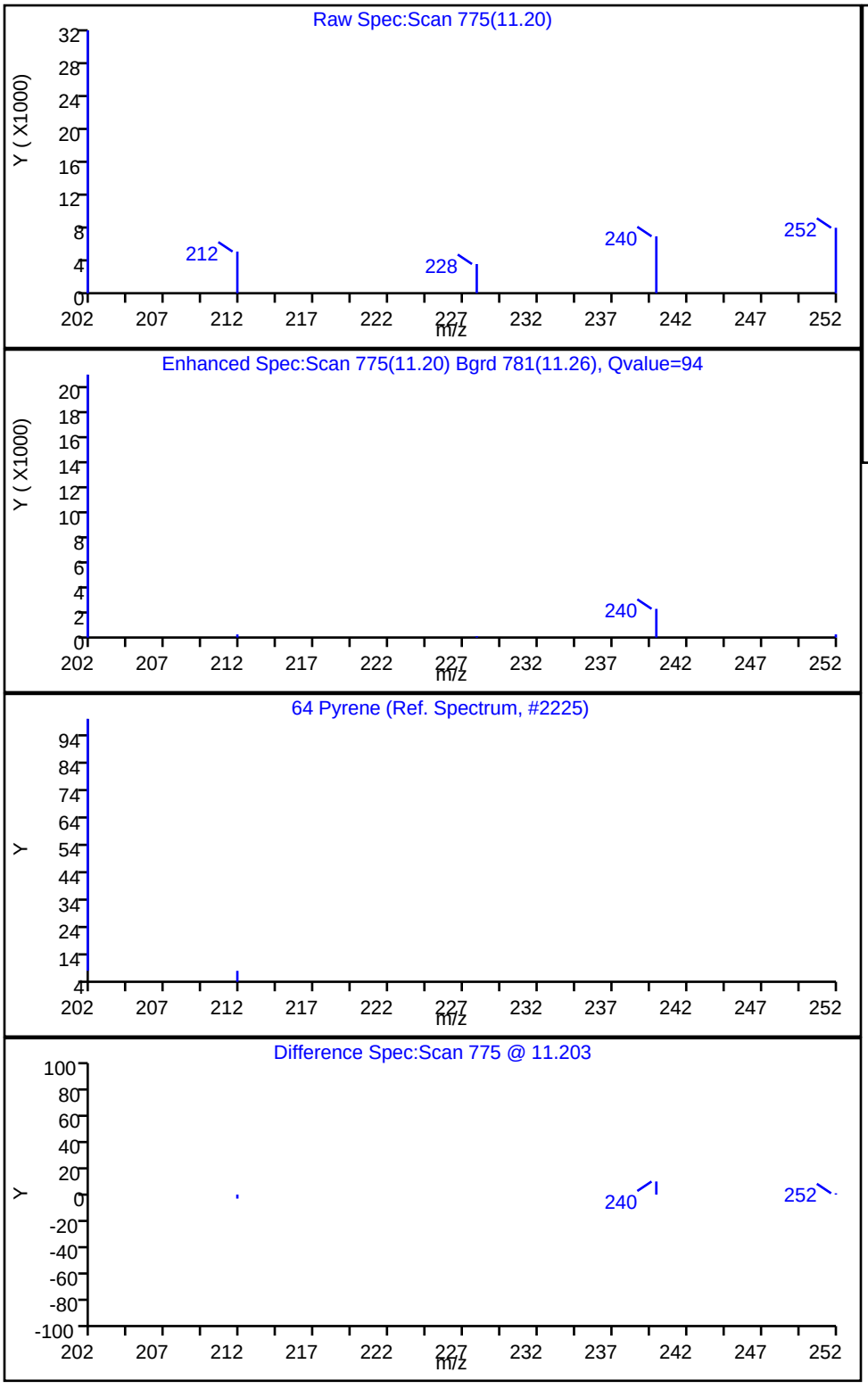
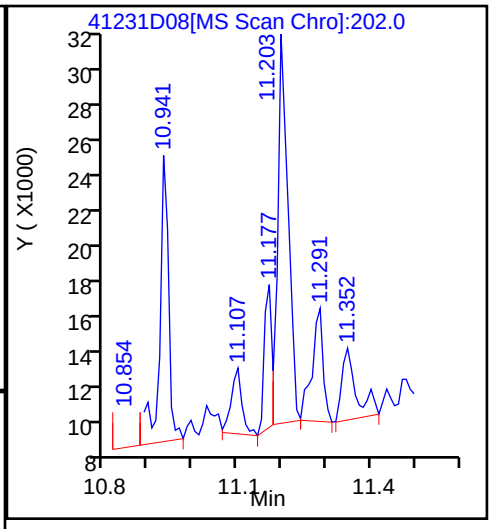
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

64 Pyrene





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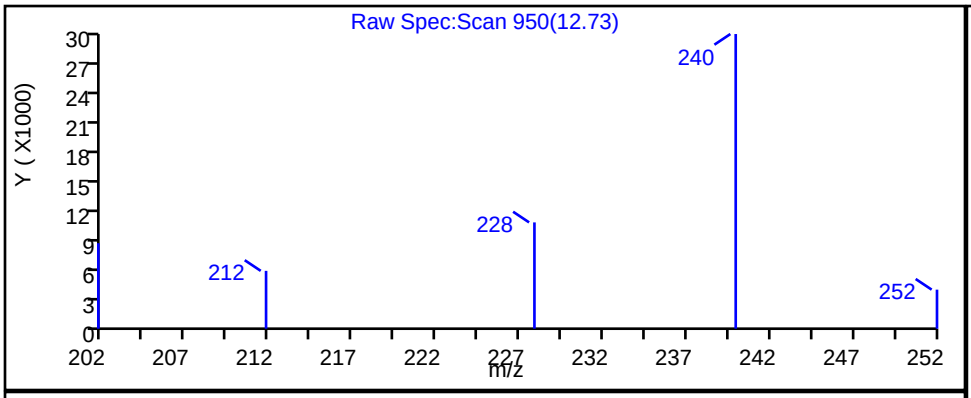
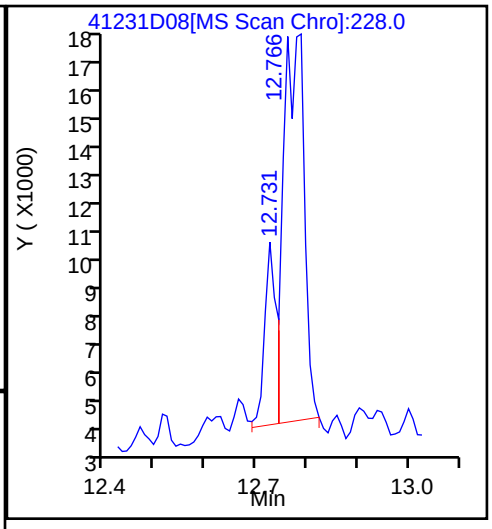
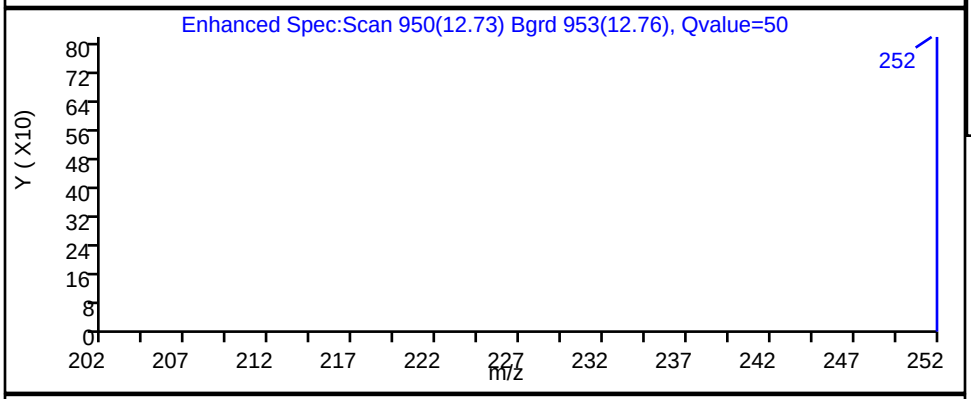
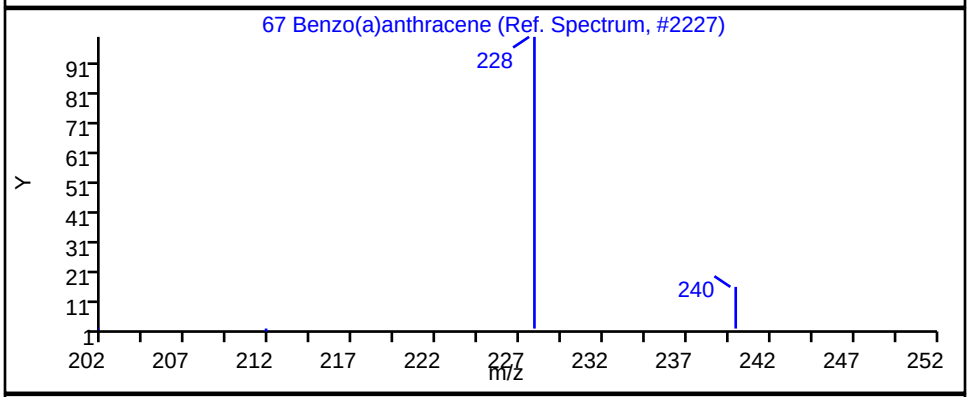
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

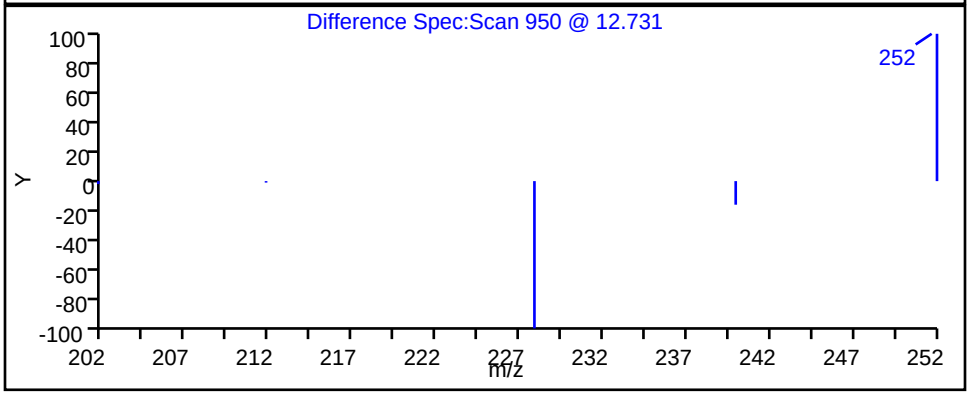
67 Benzo(a)anthracene









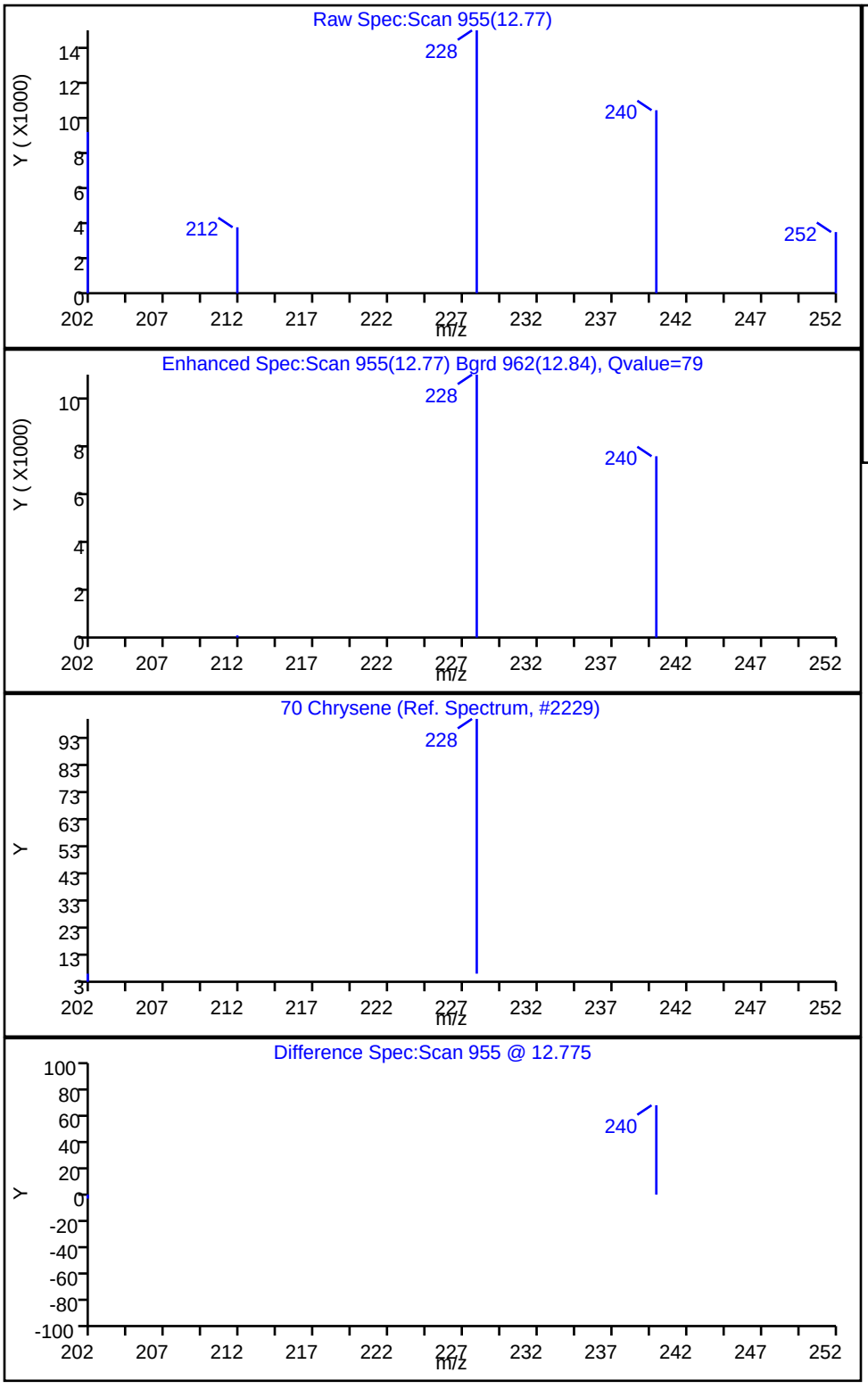


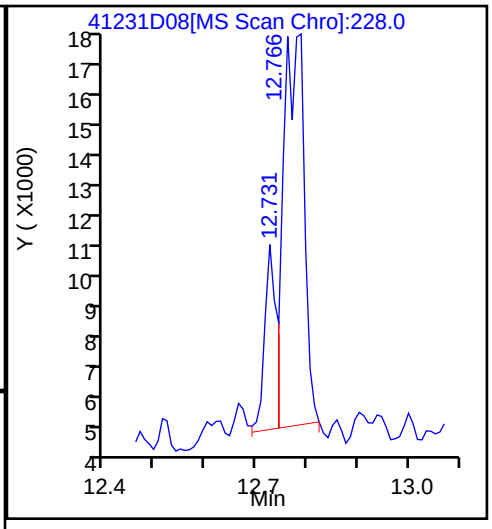
Report Date: 06-Jan-2016 10:12:42 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D08.D		
Injection Date:	31-Dec-2015 15:19:30	Inst. ID:	msd4.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	4123115D, QL16010-004		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

70 Chrysene





Report Date: 06-Jan-2016 10:12:42 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

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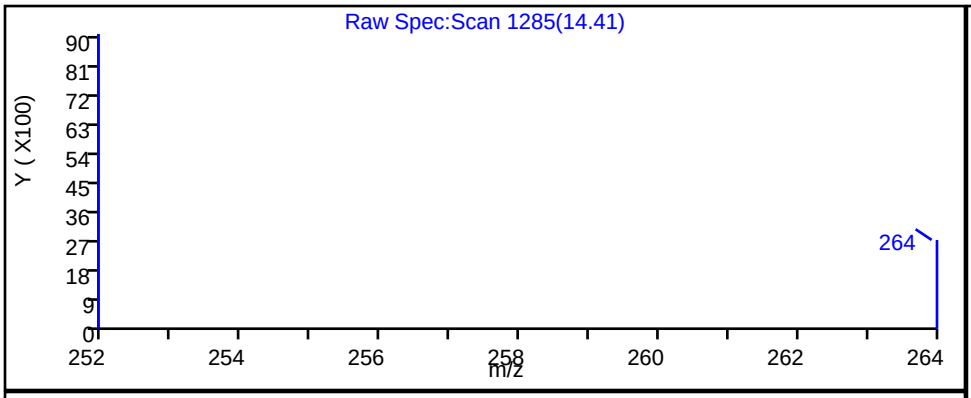
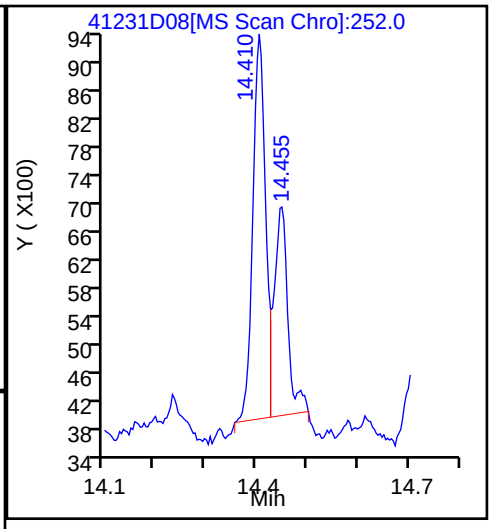
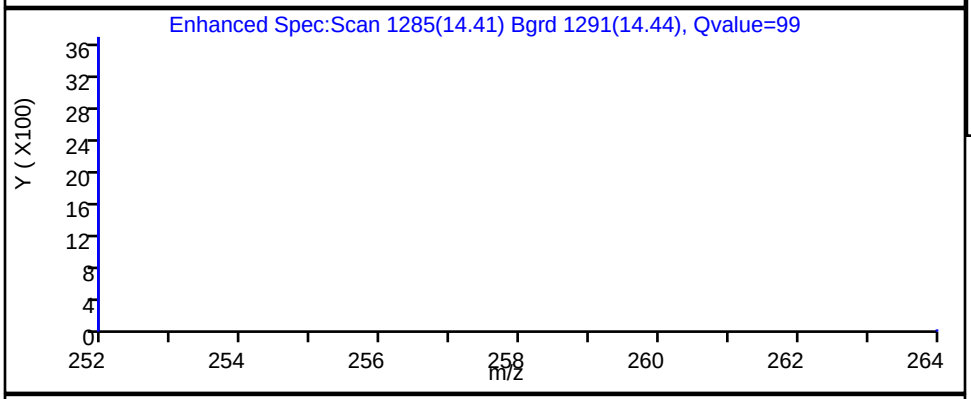
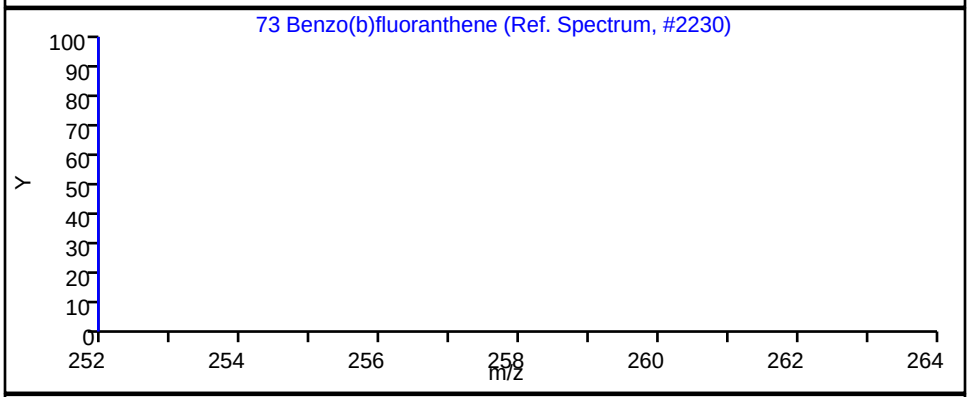
Injection Date:	31-Dec-2015 15:19:30	Inst. ID:	msd4.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	4123115D, QL16010-004		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

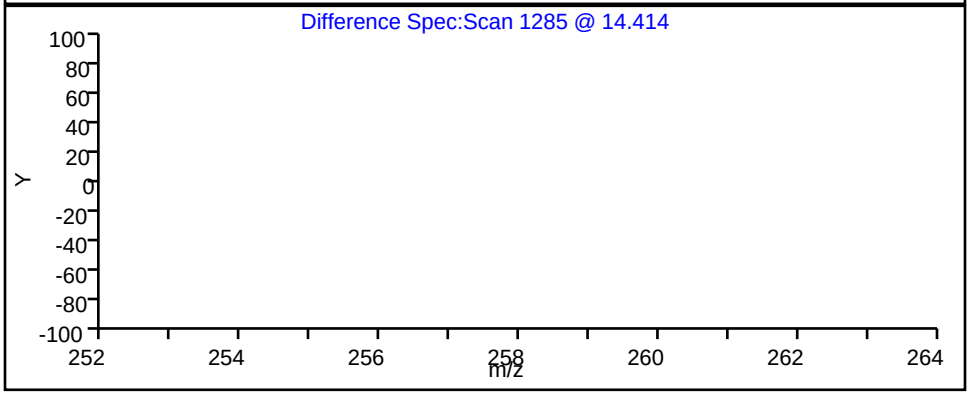
73 Benzo(b)fluoranthene









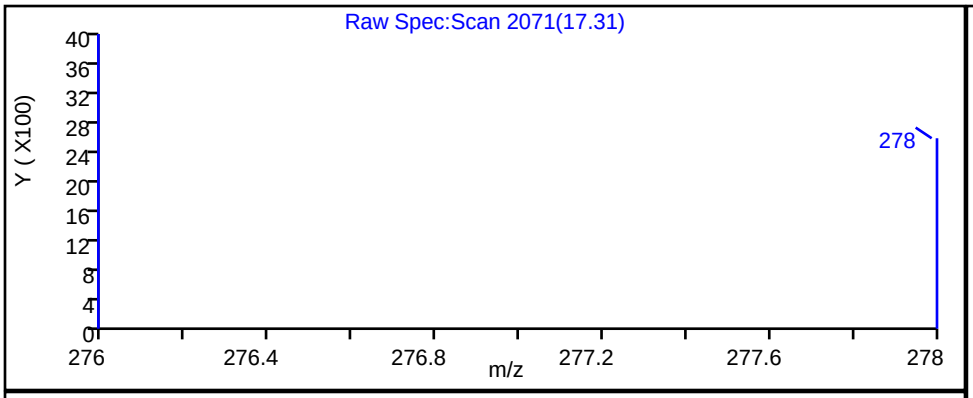


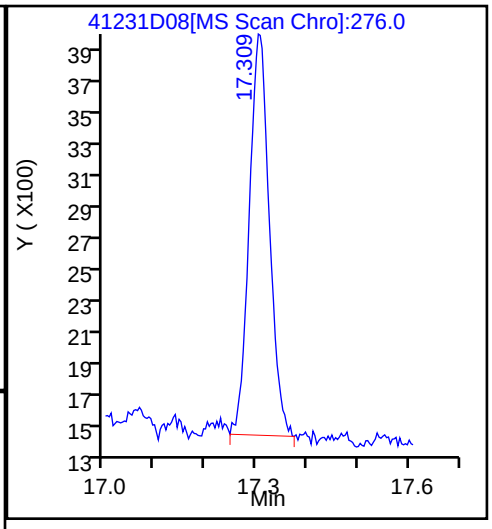
Report Date: 06-Jan-2016 10:12:42 AIM Revision: 1.0 26-May-2015 13:41:26

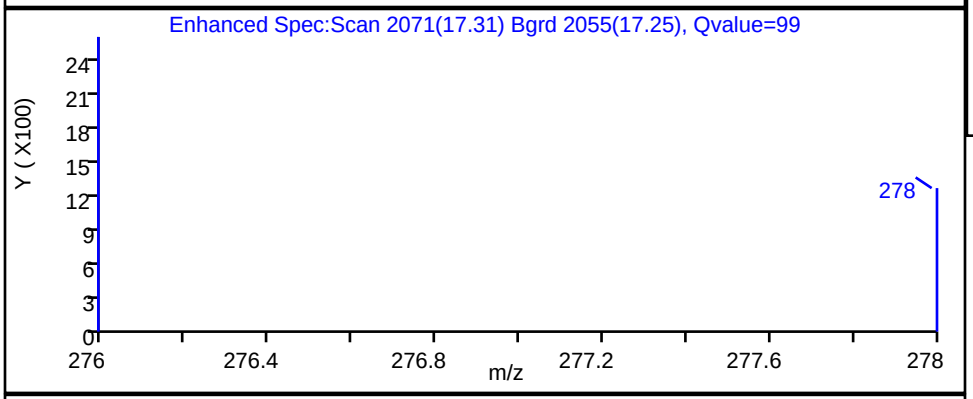
Shealy Environmental Services

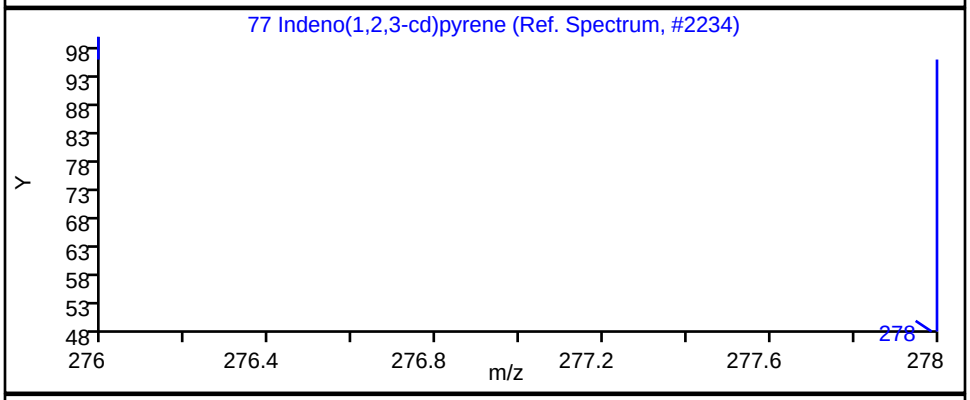
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D08.D		
Injection Date:	31-Dec-2015 15:19:30	Inst. ID:	msd4.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	4123115D, QL16010-004		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

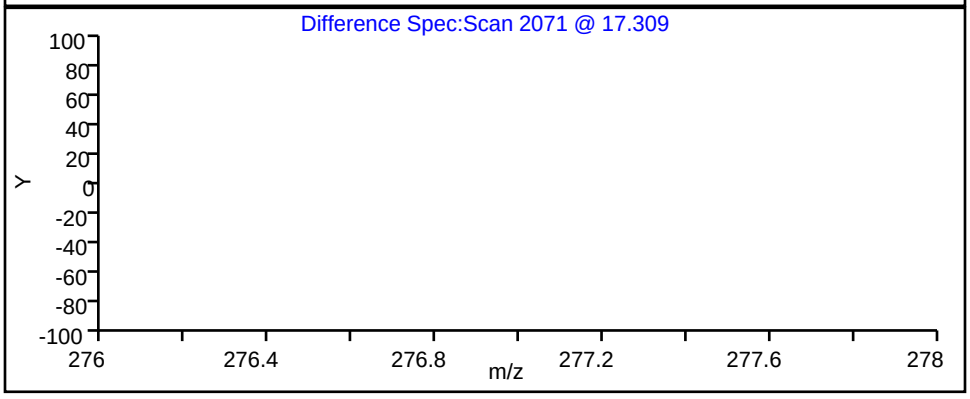
77 Indeno(1,2,3-cd)pyrene









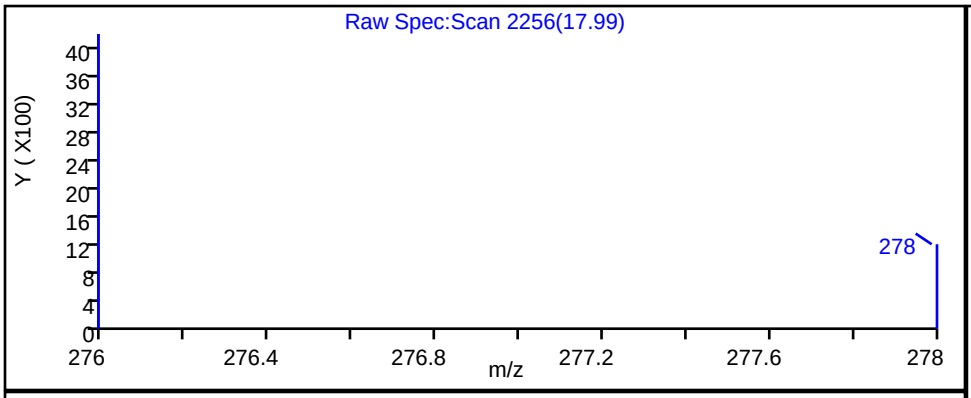


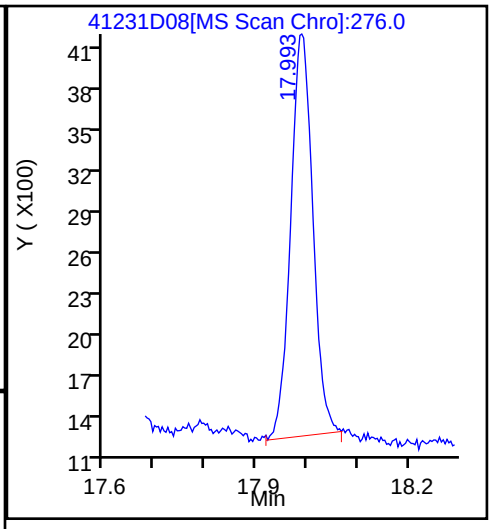
Report Date: 06-Jan-2016 10:12:42 AIM Revision: 1.0 26-May-2015 13:41:26

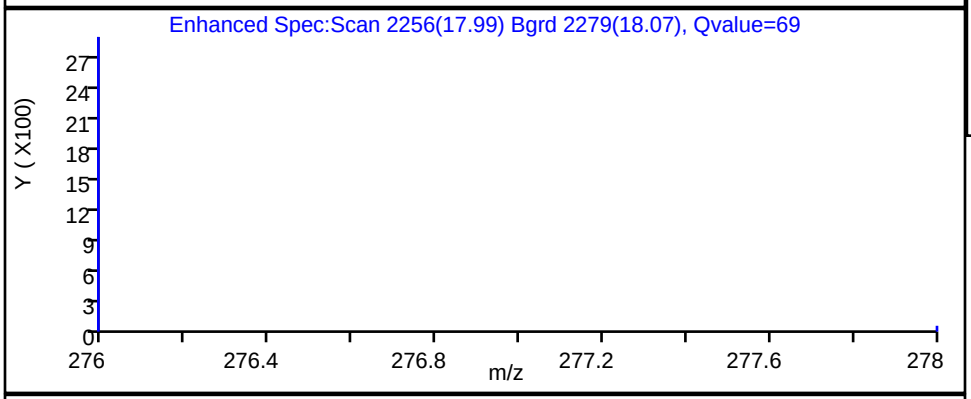
Shealy Environmental Services

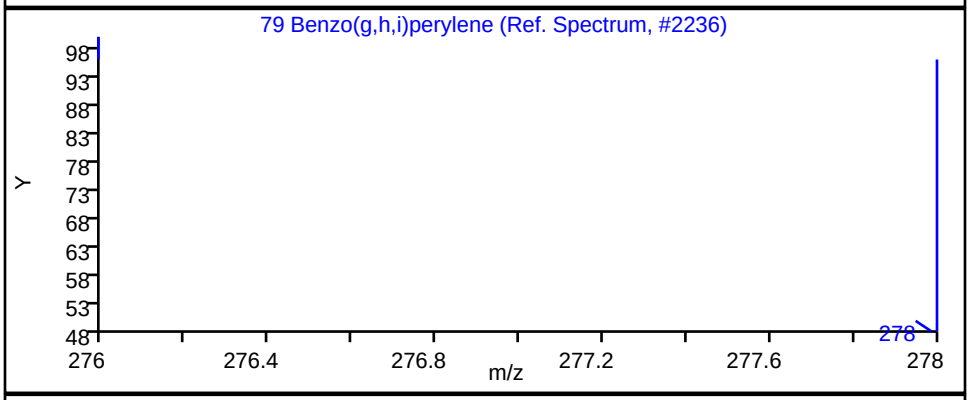
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D08.D		
Injection Date:	31-Dec-2015 15:19:30	Inst. ID:	msd4.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	4123115D, QL16010-004		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

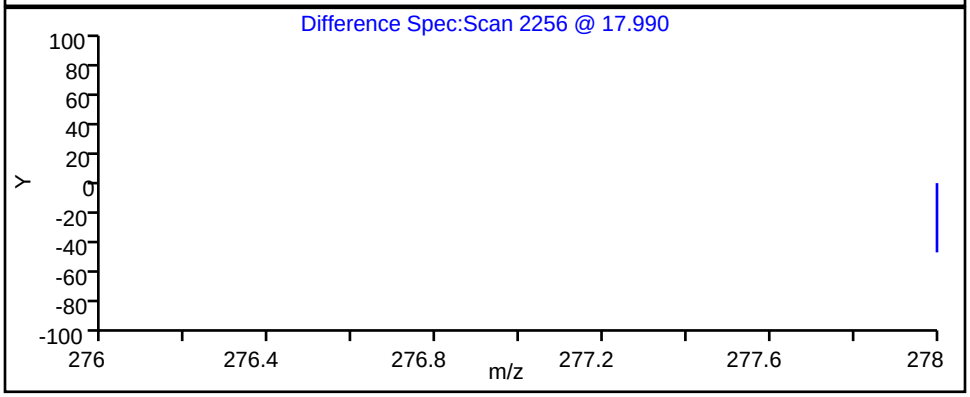
79 Benzo(g,h,i)perylene











Report Date: 06-Jan-2016 10:12:42 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

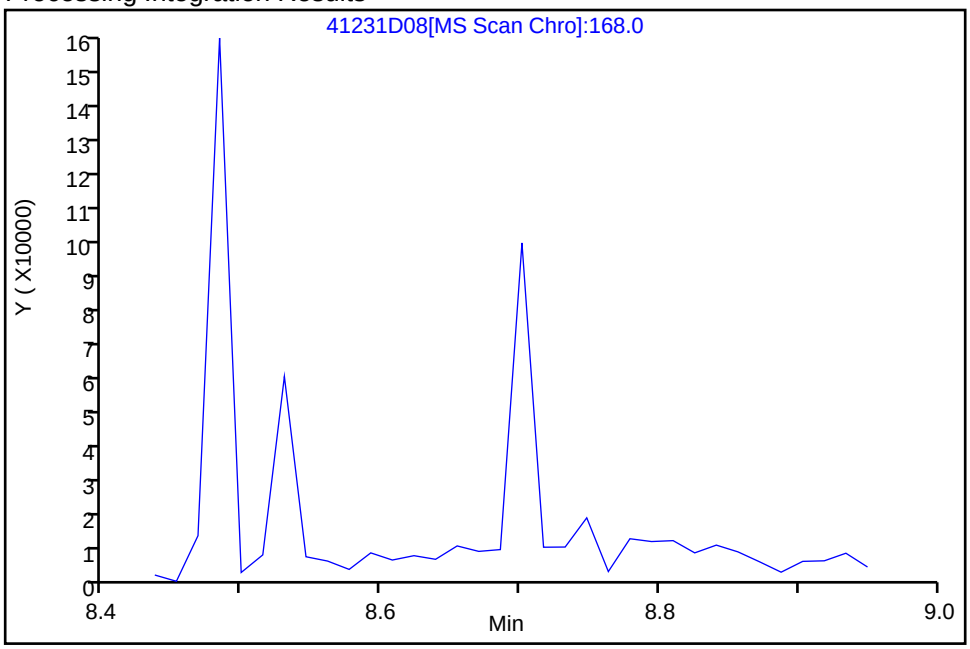
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D08.D		
Injection Date:	31-Dec-2015 15:19:30	Inst. ID:	msd4.i
Client ID:	F6R34	Lab ID:	QL16010-004
Sample Info:	4123115D, QL16010-004		
Injection Vol.	2.00 1	Dil. Factor:	20.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

45 Dibenzofuran, CAS: 132-64-9

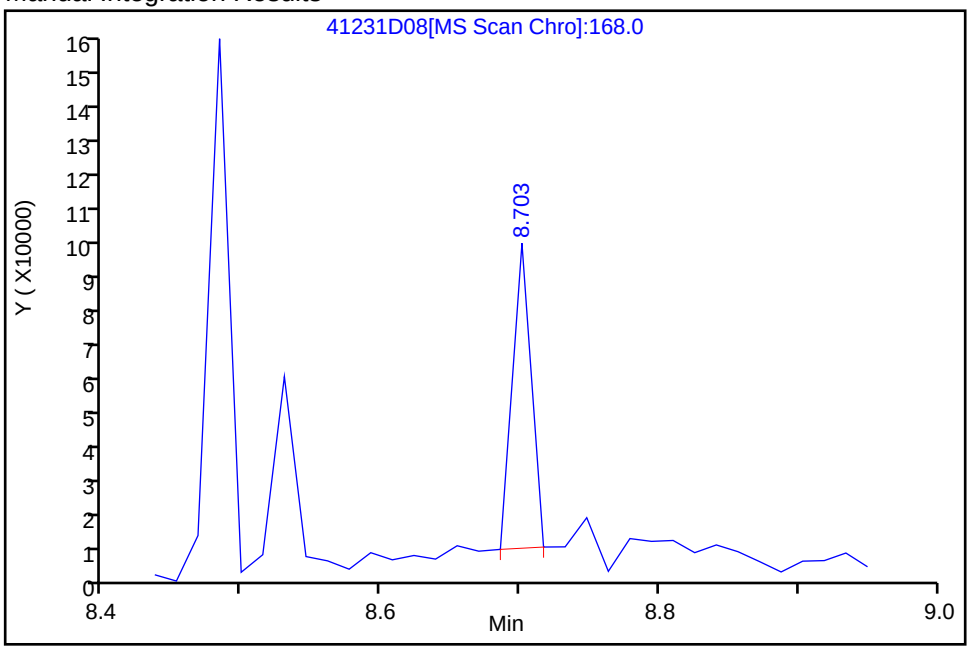
Not Detected
8.703

Processing Integration Results



Manual Integration Results

RT: 8.703
Area: 76610
Conc: 1.6602
Conc Units: ug/L



Data Editor: rbh, 04-Jan-2016 09:14:30
Audit Action: Mint
Audit Reason: IAI

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R35

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-005

Sample wt/vol: 1030 (g/mL) mL Lab File ID: 41231D09

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	0.097	U
91-20-3	Naphthalene	0.015	J
91-57-6	2-Methylnaphthalene	0.049	U
208-96-8	Acenaphthylene	0.049	U
83-32-9	Acenaphthene	0.049	U
86-73-7	Fluorene	0.049	U
87-86-5	Pentachlorophenol	0.19	U
85-01-8	Phenanthrene	0.049	U
120-12-7	Anthracene	0.049	U
206-44-0	Fluoranthene	0.049	U
129-00-0	Pyrene	0.049	U
56-55-3	Benzo(a)anthracene	0.049	U
218-01-9	Chrysene	0.049	U
205-99-2	Benzo(b)fluoranthene	0.049	U
207-08-9	Benzo(k)fluoranthene	0.049	U
50-32-8	Benzo(a)pyrene	0.049	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.049	U
53-70-3	Dibenzo(a,h)anthracene	0.049	U
191-24-2	Benzo(g,h,i)perylene	0.049	U
132-64-9	Dibenzofuran	0.028	J
118-74-1	Hexachlorobenzene	0.049	U
87-68-3	Hexachlorobutadiene	0.097	U
111-44-4	bis(2-Chloroethyl)ether	0.097	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.097	U
621-64-7	N-Nitrosodi-n-propylamine	0.049	U
67-72-1	Hexachloroethane	0.097	U
98-95-3	Nitrobenzene	0.097	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R35

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-005

Sample wt/vol: 1030 (g/mL) mL Lab File ID: 41231D09

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	0.097	U
88-06-2	2,4,6-Trichlorophenol	0.097	U
92-52-4	1,1'-Biphenyl	0.049	U
606-20-2	2,6-Dinitrotoluene	0.049	U
51-28-5	2,4-Dinitrophenol	0.97	U
121-14-2	2,4-Dinitrotoluene	0.049	U
534-52-1	4,6-Dinitro-2-methylphenol	0.097	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.097	U
1912-24-9	Atrazine	0.097	U
91-94-1	3,3'-Dichlorobenzidine	0.097	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D09.D		
Lab Sample ID:	QL16010-005	Client Sample ID:	F6R35
Injection Date:	31-Dec-2015 15:46:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4123115D, QL16010-005		
Method:	\\Organics\HH\chem\msd4.i\4123115D.b\Sim2544.m		
Method Date:	04-Jan-2016 17:23:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	6
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1030.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	04-Jan-2016 17:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 109 1,4-Dioxane-d8	96.0	3.761	3.744	0.017	6964	0.07059	0.06853	
108 1,4-Dioxane	88.0		3.770		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.718	5.718	0.000	18600	0.10025	0.09733	
5 bis(2-Chloroethyl)Ether	93.0		5.753		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	68743	0.40000	0.38835	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.278		ND			
15 Hexachloroethane	117.0		6.424		ND			
$ 16 Nitrobenzene-d5	128.0	6.446	6.445	0.001	10470	0.11170	0.10844	
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.908	6.917	-0.009	29285	0.14785	0.14355	
* 23 Naphthalene-d8	136.0	7.048	7.048	0.000	342997	0.40000	0.38835	
24 Naphthalene	128.0	7.066	7.066	0.000	13578	0.01526	0.01482	e
25 4-Chloroaniline	127.0		7.083		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.604	7.604	0.000	38661	0.08152	0.07915	
29 2-Methylnaphthalene	142.0		7.636		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.865		ND			
34 1,1'-Biphenyl	154.0		8.010		ND			
39 2,6-Dinitrotoluene	165.0		8.301		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	116867	0.40000	0.38835	
42 Acenaphthene	153.0		8.548		ND			
43 2,4-Dinitrophenol	184.0		8.548		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0	8.687	8.703	-0.016	16798	0.02867	0.02784	e
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.463		ND			
57 Pentachlorophenol	266.0		9.629		ND			
* 58 Phenanthrene-d10	188.0	9.796	9.796	0.000	286323	0.40000	0.38835	
59 Phenanthrene	178.0		9.817		ND			
60 Anthracene	178.0		9.859		ND			
$ 116 Flouranthene-d10	212.0	10.924	10.924	0.000	60703	0.08041	0.07806	
63 Fluoranthene	202.0		10.941		ND			
64 Pyrene	202.0		11.203		ND			
68 3,3'-Dichlorobenzidine	252.0		12.644		ND			
67 Benzo(a)anthracene	228.0		12.731		ND			
* 69 Chrysene-d12	240.0	12.748	12.748	0.000	297250	0.40000	0.38835	
70 Chrysene	228.0		12.783		ND			
73 Benzo(b)fluoranthene	252.0		14.407		ND			
74 Benzo(k)fluoranthene	252.0		14.447		ND			
75 Benzo(a)pyrene	252.0		14.974		ND			
* 76 Perylene-d12	264.0	15.077	15.073	0.004	245254	0.40000	0.38835	
77 Indeno(1,2,3-cd)pyrene	276.0		17.305		ND			
78 Dibenzo(a,h)anthracene	278.0		17.323		ND			
79 Benzo(g,h,i)perylene	276.0		17.986		ND			

QC Flag Legend

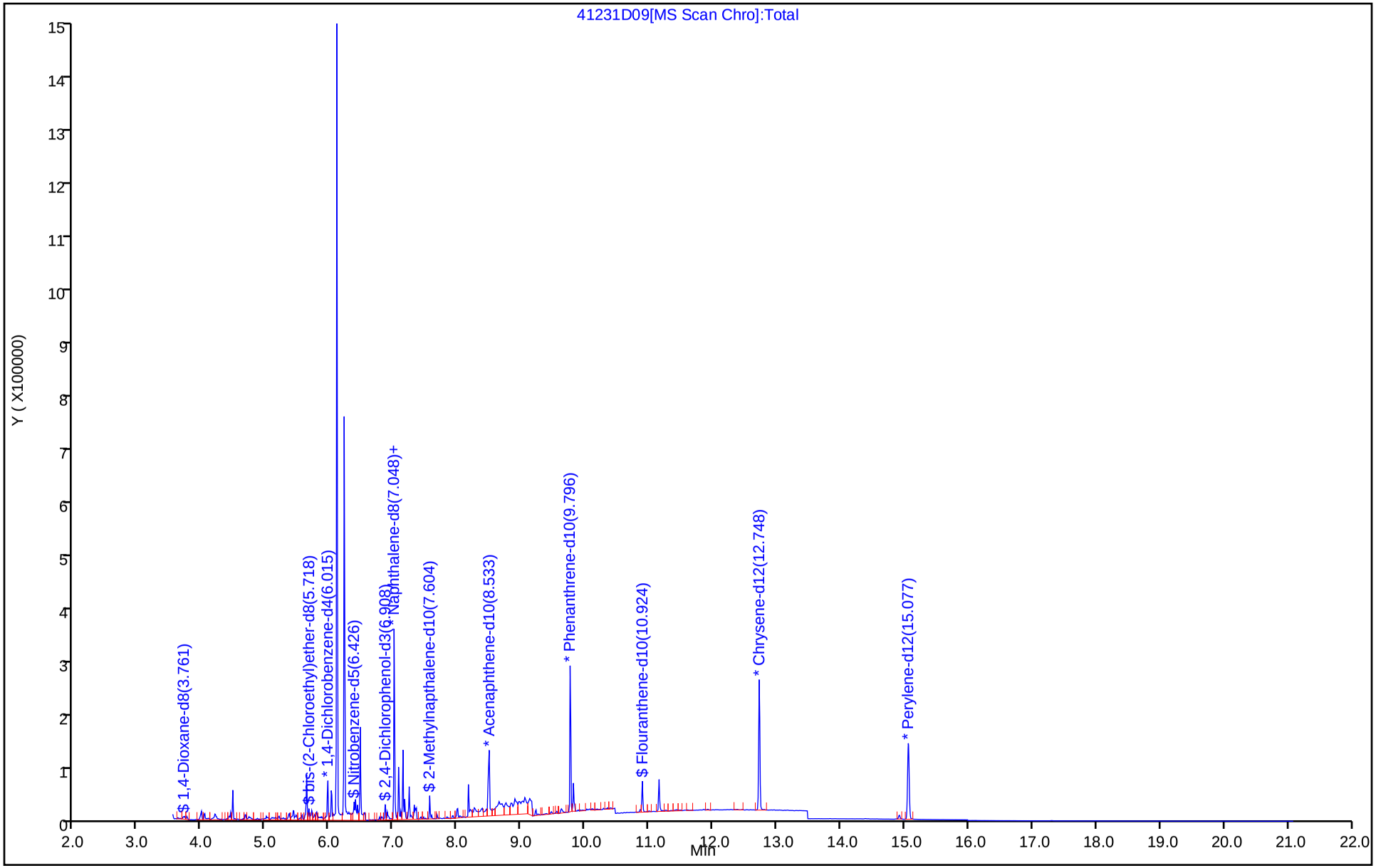
Processing Flags

e - Compound Concentration Below Quantitation Limit

Report Date: 06-Jan-2016 10:12:42 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D09.D				
Injection Date:	31-Dec-2015 15:46:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R35	Lab ID:	QL16010-005		
Sample Info:	4123115D, QL16010-005				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

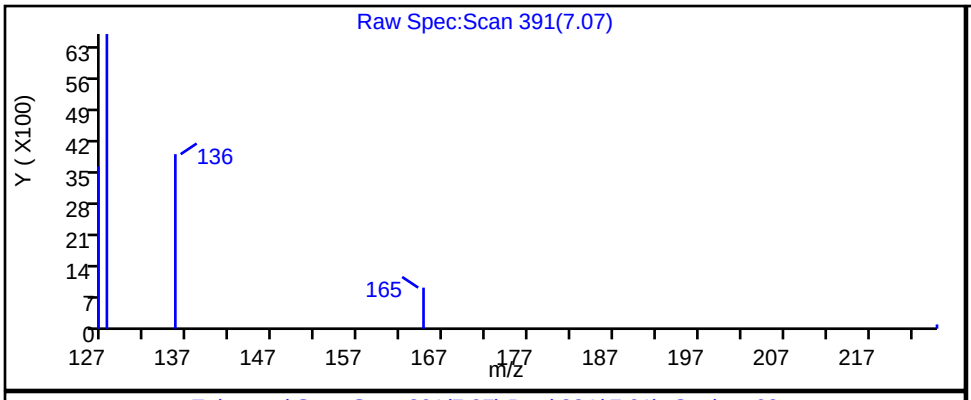


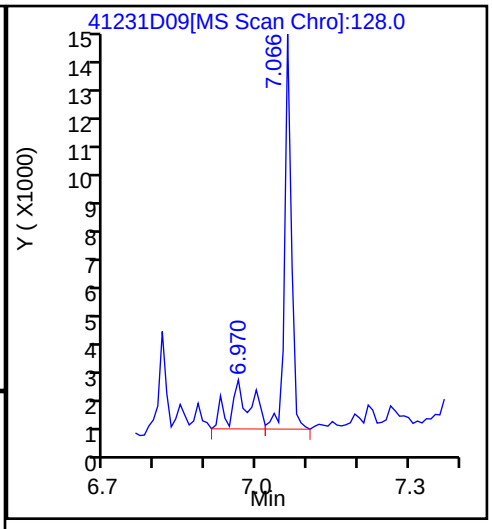
Report Date: 06-Jan-2016 10:12:42 AIM Revision: 1.0 26-May-2015 13:41:26

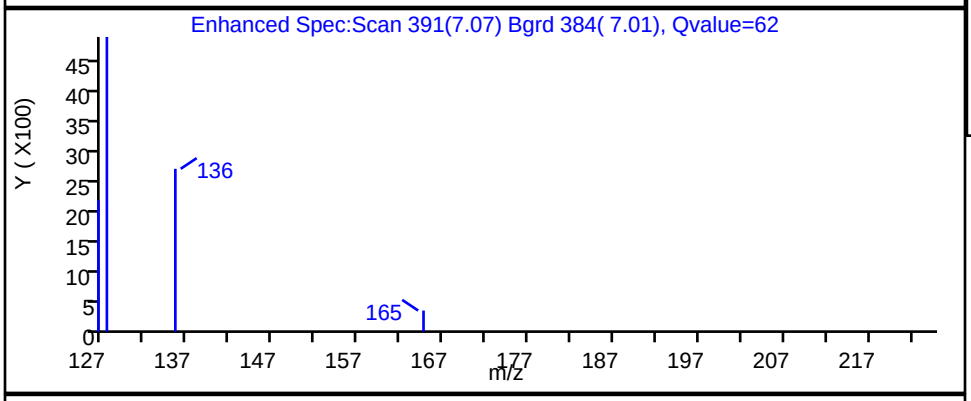
Shealy Environmental Services

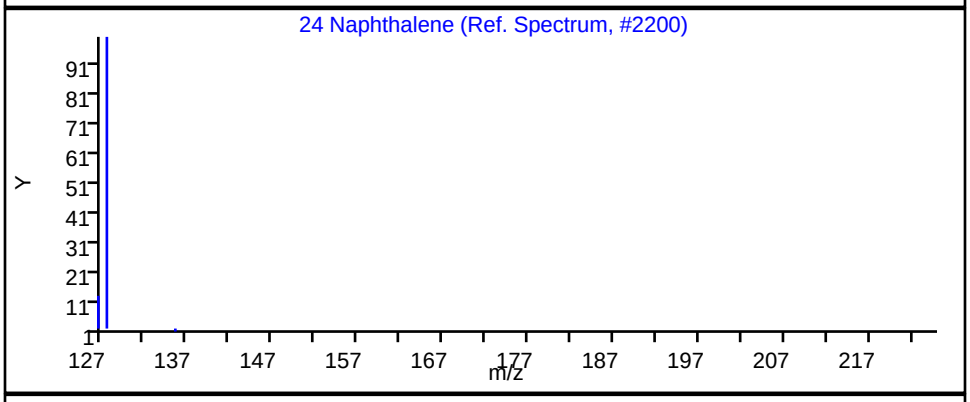
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D09.D		
Injection Date:	31-Dec-2015 15:46:30	Inst. ID:	msd4.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	4123115D, QL16010-005		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

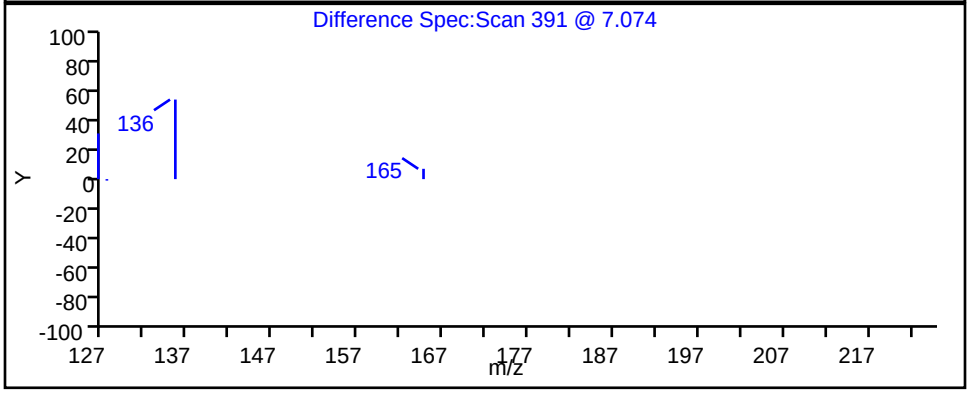
24 Naphthalene









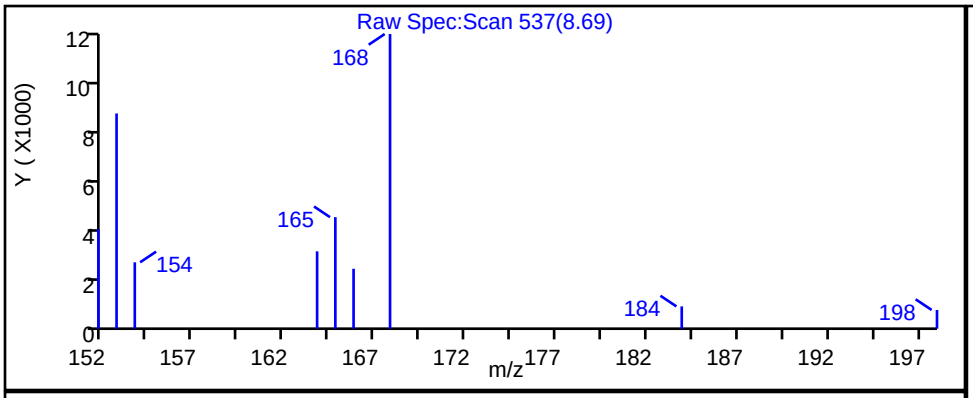


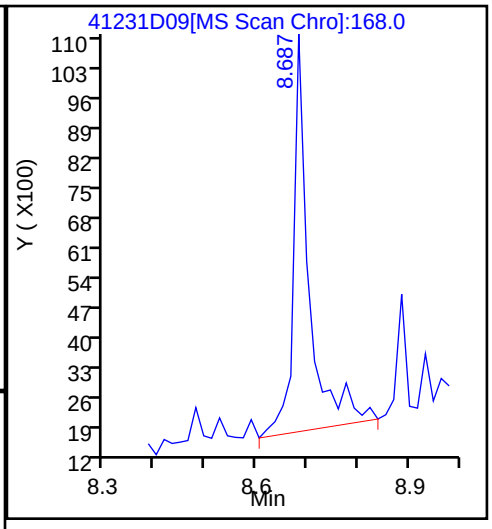
Report Date: 06-Jan-2016 10:12:42 AIM Revision: 1.0 26-May-2015 13:41:26

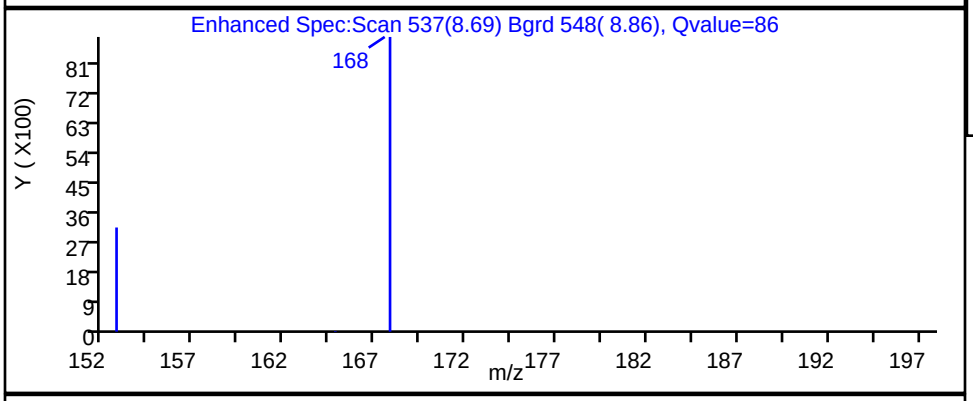
Shealy Environmental Services

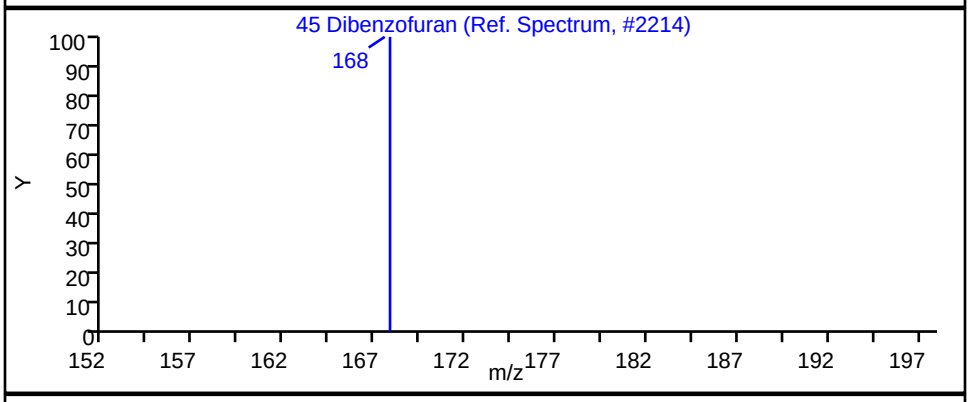
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D09.D		
Injection Date:	31-Dec-2015 15:46:30	Inst. ID:	msd4.i
Client ID:	F6R35	Lab ID:	QL16010-005
Sample Info:	4123115D, QL16010-005		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

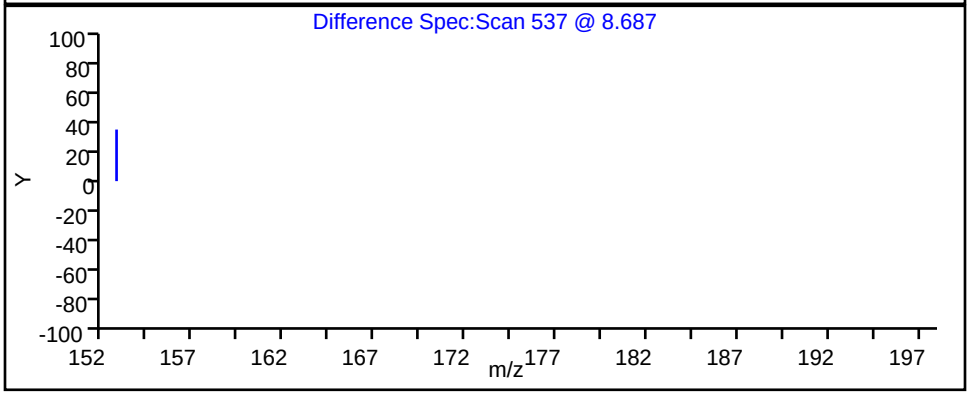
45 Dibenzofuran











FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R36

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-006

Sample wt/vol: 1030 (g/mL) mL Lab File ID: 41231D10

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	0.097	U
91-20-3	Naphthalene	0.0095	J
91-57-6	2-Methylnaphthalene	0.049	U
208-96-8	Acenaphthylene	0.049	U
83-32-9	Acenaphthene	0.049	U
86-73-7	Fluorene	0.049	U
87-86-5	Pentachlorophenol	0.19	U
85-01-8	Phenanthrene	0.049	U
120-12-7	Anthracene	0.049	U
206-44-0	Fluoranthene	0.049	U
129-00-0	Pyrene	0.049	U
56-55-3	Benzo(a)anthracene	0.049	U
218-01-9	Chrysene	0.049	U
205-99-2	Benzo(b)fluoranthene	0.049	U
207-08-9	Benzo(k)fluoranthene	0.049	U
50-32-8	Benzo(a)pyrene	0.049	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.049	U
53-70-3	Dibenzo(a,h)anthracene	0.049	U
191-24-2	Benzo(g,h,i)perylene	0.049	U
132-64-9	Dibenzofuran	0.049	U
118-74-1	Hexachlorobenzene	0.049	U
87-68-3	Hexachlorobutadiene	0.097	U
111-44-4	bis(2-Chloroethyl)ether	0.097	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.097	U
621-64-7	N-Nitrosodi-n-propylamine	0.049	U
67-72-1	Hexachloroethane	0.097	U
98-95-3	Nitrobenzene	0.097	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
F6R36

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QL16010-006

Sample wt/vol: 1030 (g/mL) mL Lab File ID: 41231D10

% Solids: Date Received: 12/16/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: 2 Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	0.097	U
88-06-2	2,4,6-Trichlorophenol	0.097	U
92-52-4	1,1'-Biphenyl	0.049	U
606-20-2	2,6-Dinitrotoluene	0.049	U
51-28-5	2,4-Dinitrophenol	0.97	U
121-14-2	2,4-Dinitrotoluene	0.049	U
534-52-1	4,6-Dinitro-2-methylphenol	0.097	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.097	U
1912-24-9	Atrazine	0.097	U
91-94-1	3,3'-Dichlorobenzidine	0.097	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D10.D		
Lab Sample ID:	QL16010-006	Client Sample ID:	F6R36
Injection Date:	31-Dec-2015 16:13:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4123115D, QL16010-006		
Method:	\\Organics\HH\chem\msd4.i\4123115D.b\Sim2544.m		
Method Date:	04-Jan-2016 17:23:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Client	ALS Bottle:	7
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1030.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	04-Jan-2016 17:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 109 1,4-Dioxane-d8	96.0	3.753	3.744	0.009	8126	0.07509	0.07291	
108 1,4-Dioxane	88.0		3.770		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.718	5.718	0.000	19145	0.09407	0.09133	e
5 bis(2-Chloroethyl)Ether	93.0		5.753		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	75402	0.40000	0.38835	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.278		ND			
15 Hexachloroethane	117.0		6.424		ND			
$ 16 Nitrobenzene-d5	128.0	6.445	6.445	0.000	9595	0.09538	0.09260	e
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.917	6.917	0.000	31854	0.14985	0.14549	
* 23 Naphthalene-d8	136.0	7.048	7.048	0.000	368103	0.40000	0.38835	
24 Naphthalene	128.0	7.066	7.066	0.000	9364	0.009809	0.009523	e
25 4-Chloroaniline	127.0		7.083		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.604	7.604	0.000	38459	0.07556	0.07336	
29 2-Methylnaphthalene	142.0		7.636		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.865		ND			
34 1,1'-Biphenyl	154.0		8.010		ND			
39 2,6-Dinitrotoluene	165.0		8.301		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	134017	0.40000	0.38835	
42 Acenaphthene	153.0		8.548		ND			
43 2,4-Dinitrophenol	184.0		8.548		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0		8.703		ND			
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.463		ND			
57 Pentachlorophenol	266.0		9.629		ND			
* 58 Phenanthrene-d10	188.0	9.796	9.796	0.000	304077	0.40000	0.38835	
59 Phenanthrene	178.0		9.817		ND			
60 Anthracene	178.0		9.859		ND			
$ 116 Flouranthene-d10	212.0	10.924	10.924	0.000	62995	0.07857	0.07628	
63 Fluoranthene	202.0		10.941		ND			
64 Pyrene	202.0		11.203		ND			
68 3,3'-Dichlorobenzidine	252.0		12.644		ND			
67 Benzo(a)anthracene	228.0		12.731		ND			
* 69 Chrysene-d12	240.0	12.748	12.748	0.000	335521	0.40000	0.38835	
70 Chrysene	228.0		12.783		ND			
73 Benzo(b)fluoranthene	252.0		14.407		ND			
74 Benzo(k)fluoranthene	252.0		14.447		ND			
75 Benzo(a)pyrene	252.0		14.974		ND			
* 76 Perylene-d12	264.0	15.081	15.073	0.008	284424	0.40000	0.38835	
77 Indeno(1,2,3-cd)pyrene	276.0		17.305		ND			
78 Dibenzo(a,h)anthracene	278.0		17.323		ND			
79 Benzo(g,h,i)perylene	276.0		17.986		ND			

QC Flag Legend

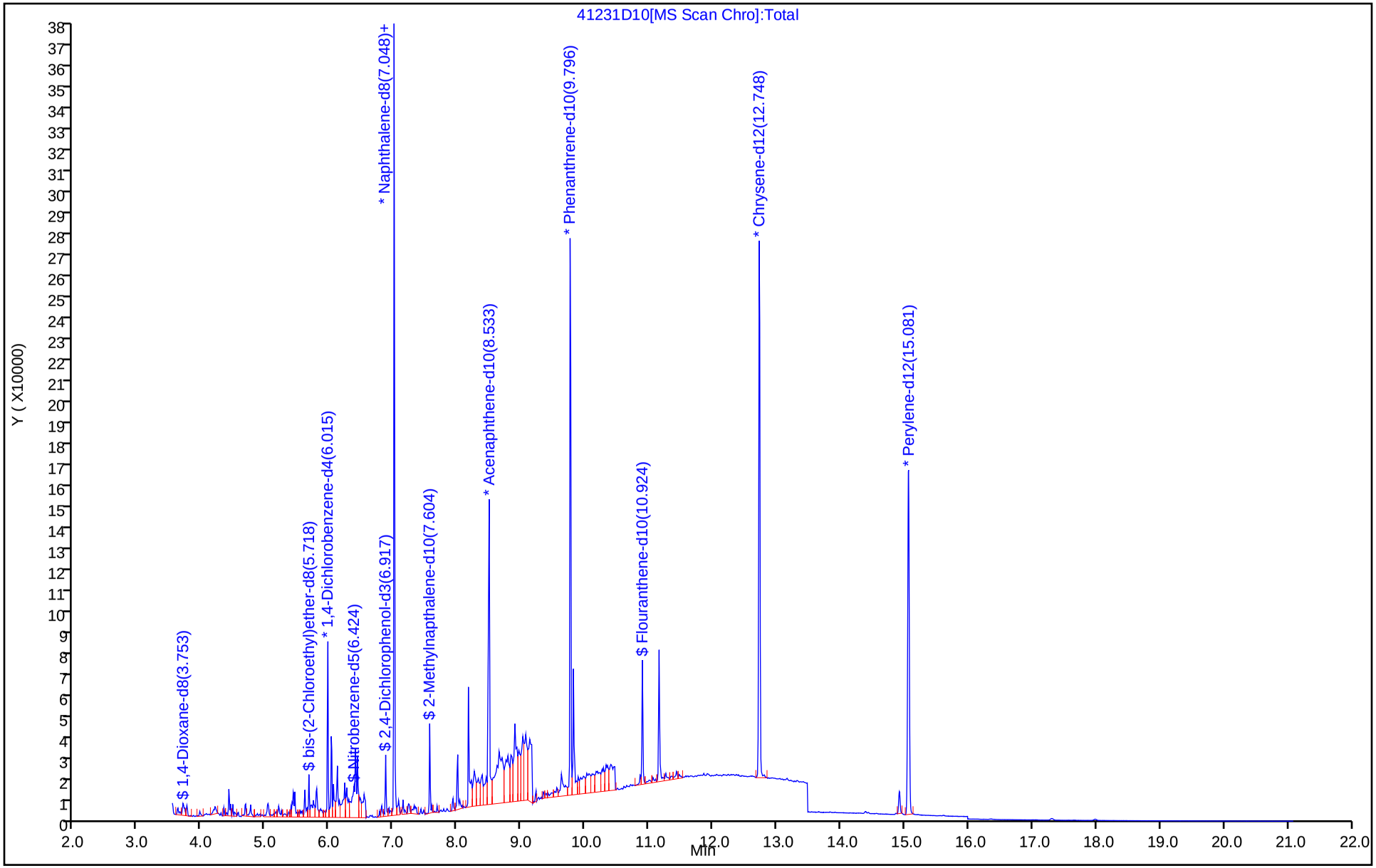
Processing Flags

e - Compound Concentration Below Quantitation Limit

Report Date: 06-Jan-2016 10:12:42 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D10.D				
Injection Date:	31-Dec-2015 16:13:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	F6R36	Lab ID:	QL16010-006		
Sample Info:	4123115D, QL16010-006				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

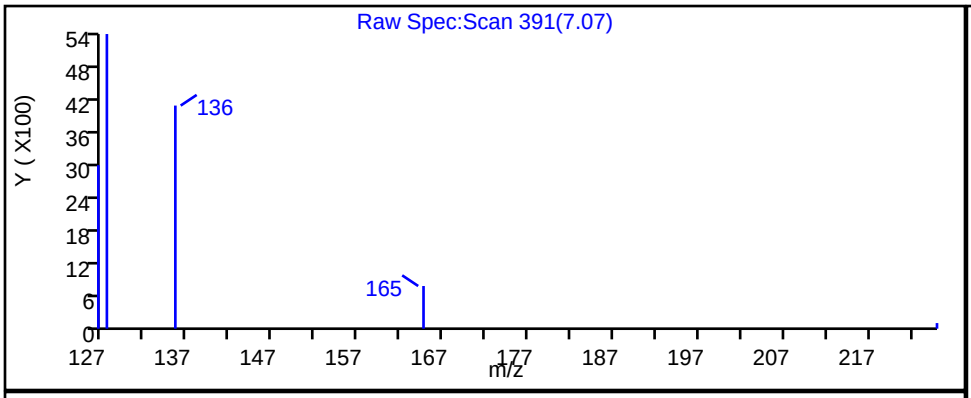


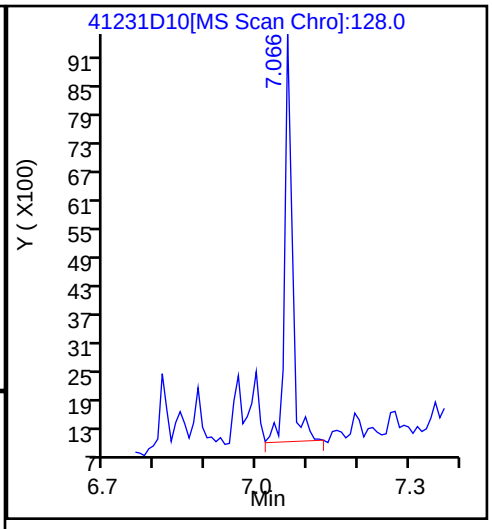
Report Date: 06-Jan-2016 10:12:42 AIM Revision: 1.0 26-May-2015 13:41:26

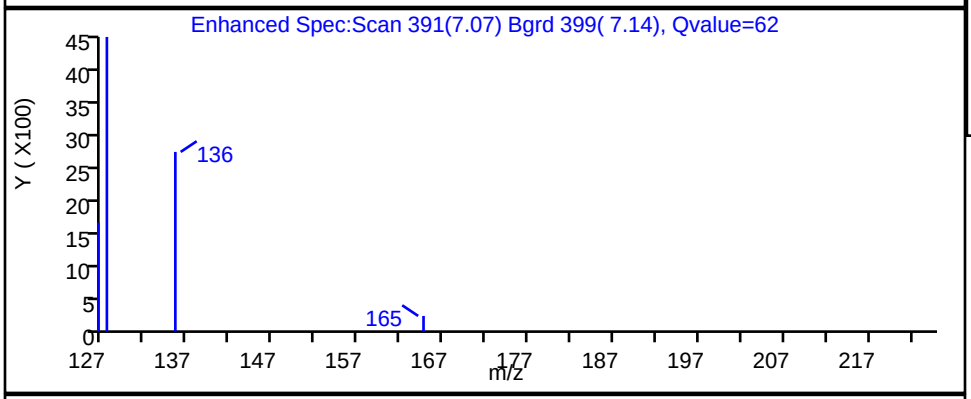
Shealy Environmental Services

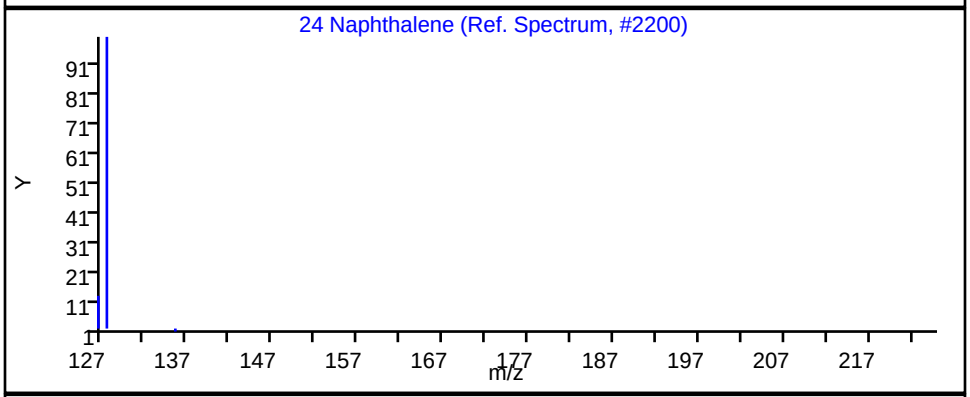
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D10.D		
Injection Date:	31-Dec-2015 16:13:30	Inst. ID:	msd4.i
Client ID:	F6R36	Lab ID:	QL16010-006
Sample Info:	4123115D, QL16010-006		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

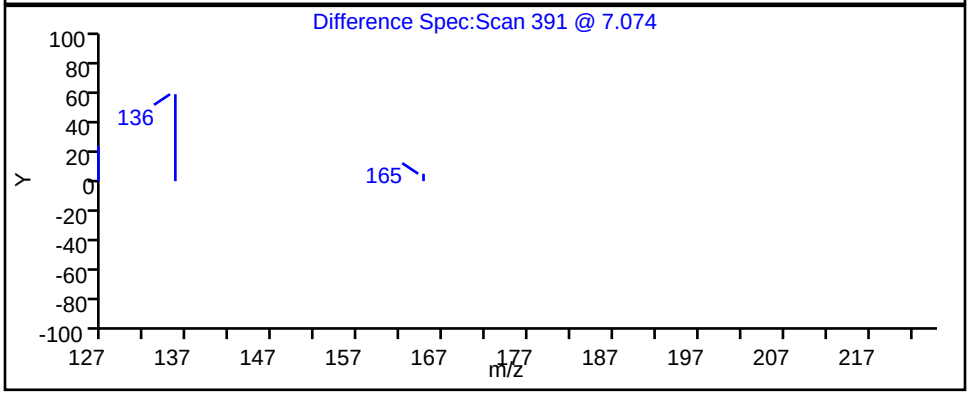
24 Naphthalene











SEMIVOLATILE-sim STANDARDS DATA

-Initial Calibration Data Form 6A-OR

-Continuing Calibration Verification Data Form 7A-OR

Initial Calibration

FORM 6A-OR MODIFIED
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date(s): 12/18/2015 12/18/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Calibration Time(s): 1425 1636

Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

LAB FILE ID: 41218B02 RRF 0.1 = 41218B02 RRF 0.1 = 41218B03 RRF 0.2 = 41218B04
RRF 0.4 = 41218B05 RRF 0.8 = 41218B06 RRF 1.6 = 41218B07

COMPOUND	RRF 0.1	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.6	$\overline{RRF}$	%RSD
1,4-Dioxane		0.606	0.630	0.569	0.576	0.5650	0.589	4.7
Naphthalene	1.081	1.021	1.048	1.049	1.009	1.0160	1.037	2.6
2-Methylnaphthalene	0.623	0.591	0.621	0.630	0.604	0.6070	0.613	2.3
Acenaphthylene	2.010	1.708	1.931	1.894	1.958	2.0440	1.924	6.2
Acenaphthene	1.586	1.470	1.577	1.532	1.592	1.5890	1.558	3.1
Fluorene	1.835	1.307	1.335	1.311	1.310	1.3910	1.415	14.7
Pentachlorophenol		0.048	0.045	0.058	0.062	0.0780	0.058	22.7
Phenanthrene	1.219	1.039	1.116	1.085	1.032	1.0450	1.089	6.5
Anthracene	1.093	0.953	1.069	1.095	1.065	1.0750	1.058	5.0
Fluoranthene	1.192	1.050	1.177	1.183	1.223	1.2680	1.182	6.2
Pyrene	1.190	1.027	1.096	1.101	1.072	1.0930	1.097	4.9
Benzo(a)anthracene	1.053	0.910	0.976	1.007	0.997	1.0150	0.993	4.8
Chrysene	1.136	0.945	0.972	0.979	0.942	0.9400	0.986	7.6
Benzo(b)fluoranthene	1.314	1.134	1.179	1.244	1.185	1.1770	1.205	5.3
Benzo(k)fluoranthene	1.339	1.121	1.160	1.231	1.178	1.1620	1.198	6.5
Benzo(a)pyrene	1.159	1.010	1.067	1.139	1.117	1.1290	1.104	5.0
Indeno(1,2,3-cd)pyrene	1.335	1.143	1.211	1.294	1.233	1.2410	1.243	5.4
Dibenzo(a,h)anthracene	1.155	0.993	1.055	1.131	1.075	1.0790	1.081	5.3
Benzo(g,h,i)perylene	1.155	0.978	1.028	1.080	1.011	0.9970	1.041	6.3
Dibenzofuran	2.417	1.908	1.972	1.959	1.921	1.8550	2.005	10.3
Hexachlorobenzene	0.256	0.217	0.233	0.236	0.231	0.2230	0.233	5.7
Hexachlorobutadiene		0.143	0.148	0.150	0.145	0.1460	0.146	1.9
bis(2-Chloroethyl)ether		1.382	1.417	1.391	1.345	1.2820	1.363	3.8
2,2'-Oxybis(1-chloropropane)		1.556	1.572	1.564	1.460	1.4400	1.518	4.1
N-Nitrosodi-n-propylamine	0.846	0.855	0.933	0.637	0.614	0.7660	0.775	16.4
Hexachloroethane		0.388	0.406	0.416	0.398	0.4050	0.403	2.6
Nitrobenzene		0.263	0.286	0.285	0.278	0.2820	0.279	3.4
4-Chloroaniline		0.348	0.453	0.462	0.444	0.3600	0.413	13.2
2,4,6-Trichlorophenol		0.308	0.347	0.349	0.371	0.3810	0.351	8.0
1,1'-Biphenyl	2.471	2.174	2.295	2.178	2.215	2.1760	2.251	5.2
2,6-Dinitrotoluene	0.193	0.212	0.223	0.254	0.292	0.3060	0.247	18.3
2,4-Dinitrophenol		0.084	0.119	0.161	0.205	0.2450	0.163	39.7
2,4-Dinitrotoluene	0.234	0.215	0.251	0.275	0.276	0.3100	0.260	13.0
4,6-Dinitro-2-methylphenol		0.031	0.044	0.051	0.057	0.0650	0.050	26.1
1,2,4,5-Tetrachlorobenzene		0.648	0.682	0.658	0.672	0.6600	0.664	2.0

FORM 6A-OR MODIFIED
GC/MS INITIAL CALIBRATION DATA

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date(s): 12/18/2015 12/18/2015

GC Column: Zebron ZB-SV ID: 0.25 (mm) Calibration Time(s): 1425 1636

Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

LAB FILE ID: 41218B02 RRF 0.1 = 41218B02 RRF 0.1 = 41218B03 RRF 0.2 = 41218B04

RRF 0.4 = 41218B05 RRF 0.8 = 41218B06 RRF 1.6 = 41218B07

COMPOUND	RRF 0.1	RRF 0.1	RRF 0.2	RRF 0.4	RRF 0.8	RRF 1.6	$\overline{RRF}$	%RSD
Atrazine		0.171	0.205	0.191	0.216	0.2260	0.202	10.7
3,3'-Dichlorobenzidine		0.232	0.196	0.269	0.279	0.2890	0.253	15.2
1,4-Dioxane-d8		0.579	0.618	0.555	0.562	0.5560	0.574	4.6
Bis(2-Chloroethyl)ether-d8		1.119	1.125	1.064	1.063	1.0270	1.080	3.8
Nitrobenzene-d5		0.101	0.110	0.109	0.110	0.1170	0.109	5.3
2,4-Dichlorophenol-d3		0.219	0.235	0.231	0.233	0.2370	0.231	3.0
Fluoranthene-d10	0.934	0.981	1.038	1.043	1.160	1.1720	1.055	9.0
2-Methylnaphthalene-d10	0.527	0.557	0.546	0.563	0.569	0.5560	0.553	2.7

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B02.D		
Lab Sample ID:	SSTD.05ON	Client Sample ID:	SSTD.05ON
Injection Date:	18-Dec-2015 14:25:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4121815B, SVMS 1700		
Method:	\\Organics\HH\chem\msd4.i\4121815B.b\Sim2544.m		
Method Date:	29-Dec-2015 17:08:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Ical, Level: 1	ALS Bottle:	1
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	18-Dec-2015 16:52:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0		3.779		ND			
108 1,4-Dioxane	88.0		3.796		ND			
$ 93 bis-(2-Chloroethyl)ether-d8	67.0		5.727		ND			
5 bis(2-Chloroethyl)Ether	93.0		5.771		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	105556	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.186		ND			
13 N-Nitroso-di-n-propylamine	70.0	6.290	6.290	0.000	22331	0.10000	0.10915	
15 Hexachloroethane	117.0		6.436		ND			
$ 16 Nitrobenzene-d5	128.0		6.457		ND			
17 Nitrobenzene	77.0		6.478		ND			
$ 96 2,4-Dichlorophenol-d3	165.0		6.943		ND			
* 23 Naphthalene-d8	136.0	7.066	7.066	0.000	483402	0.40000	0.40000	
24 Naphthalene	128.0	7.083	7.083	0.000	130604	0.10000	0.10417	
25 4-Chloroaniline	127.0		7.101		ND			
26 Hexachlorobutadiene	225.0		7.153		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.625	7.625	0.000	63740	0.10000	0.09537	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	75230	0.10000	0.10163	
92 1,2,4,5-Tetrachlorobenzene	216.0		7.792		ND			
31 2,4,6-Trichlorophenol	196.0		7.886		ND			
34 1,1'-Biphenyl	154.0	8.031	8.031	0.000	103705	0.10000	0.10976	
39 2,6-Dinitrotoluene	165.0	8.317	8.317	0.000	8099	0.10000	0.07826	M
38 Acenaphthylene	152.0	8.425	8.425	0.000	84366	0.10000	0.10448	
* 41 Acenaphthene-d10	164.0	8.548	8.548	0.000	167871	0.40000	0.40000	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	66578	0.10000	0.10184	
43 2,4-Dinitrophenol	184.0		8.564		ND			
46 2,4-Dinitrotoluene	165.0	8.672	8.672	0.000	9833	0.10000	0.09005	
45 Dibenzofuran	168.0	8.718	8.718	0.000	101428	0.10000	0.12052	
48 Fluorene	166.0	9.012	9.012	0.000	76992	0.10000	0.12968	
51 4,6-Dinitro-2-methylphenol	198.0		9.027		ND			
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	23868	0.10000	0.10997	
56 Atrazine	200.0		9.484		ND			
57 Pentachlorophenol	266.0	9.661	9.661	0.000	9028	0.20000	0.16587	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	373376	0.40000	0.40000	
59 Phenanthrene	178.0	9.838	9.838	0.000	113797	0.10000	0.11191	
60 Anthracene	178.0	9.880	9.880	0.000	102026	0.10000	0.10327	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	87187	0.10000	0.08856	
63 Fluoranthene	202.0	10.967	10.967	0.000	111305	0.10000	0.10086	
64 Pyrene	202.0	11.229	11.229	0.000	113471	0.10000	0.10854	
68 3,3'-Dichlorobenzidine	252.0		12.670		ND			
67 Benzo(a)anthracene	228.0	12.757	12.757	0.000	100334	0.10000	0.10600	
* 69 Chrysene-d12	240.0	12.775	12.775	0.000	381291	0.40000	0.40000	
70 Chrysene	228.0	12.810	12.810	0.000	108270	0.10000	0.11524	
73 Benzo(b)fluoranthene	252.0	14.440	14.440	0.000	104439	0.10000	0.10902	
74 Benzo(k)fluoranthene	252.0	14.480	14.480	0.000	106395	0.10000	0.11172	
75 Benzo(a)pyrene	252.0	15.011	15.011	0.000	92120	0.10000	0.10504	
* 76 Perylene-d12	264.0	15.110	15.110	0.000	317891	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.367	17.367	0.000	106058	0.10000	0.10739	
78 Dibenzo(a,h)anthracene	278.0	17.386	17.386	0.000	91828	0.10000	0.10685	
79 Benzo(g,h,i)perylene	276.0	18.052	18.052	0.000	91761	0.10000	0.11087	

QC Flag Legend

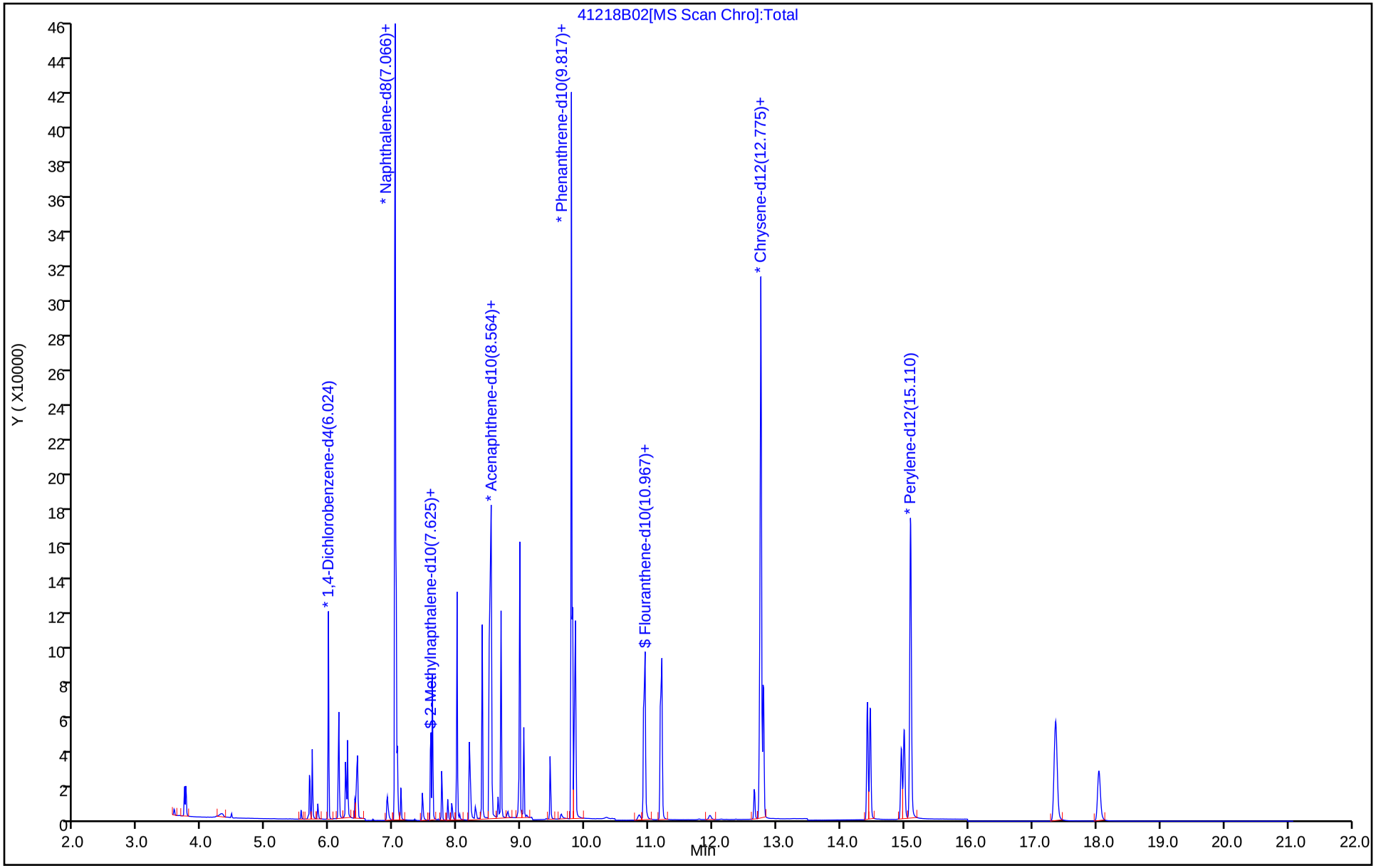
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 29-Dec-2015 17:40:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B02.D				
Injection Date:	18-Dec-2015 14:25:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD.05ON	Lab ID:	SSTD.05ON		
Sample Info:	4121815B, SVMS 1700				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 29-Dec-2015 17:40:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

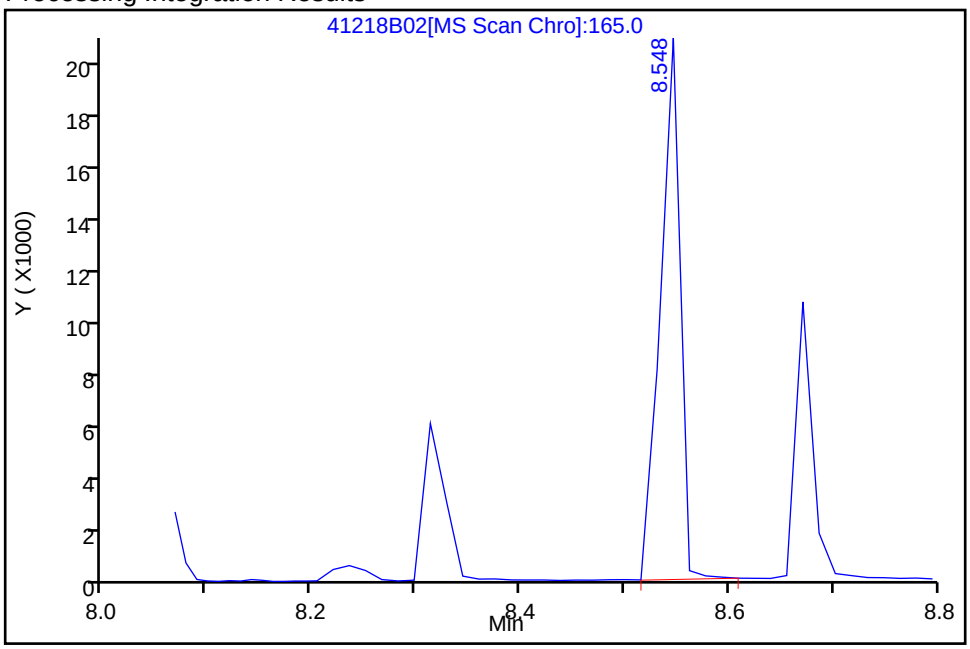
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B02.D		
Injection Date:	18-Dec-2015 14:25:30	Inst. ID:	msd4.i
Client ID:	SSTD.05ON	Lab ID:	SSTD.05ON
Sample Info:	4121815B, SVMS 1700		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

39 2,6-Dinitrotoluene, CAS: 606-20-2

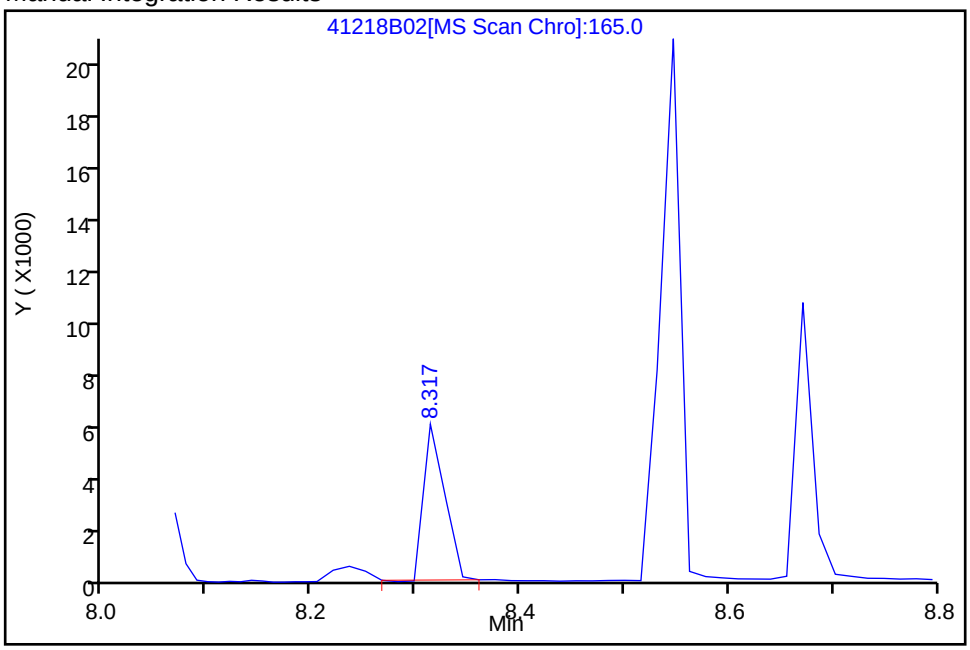
Processing Integration Results

RT: 8.548
Area: 21589
Amount: 0.13265
Amount Units: ng/ul
Conc:



Manual Integration Results

RT: 8.317
Area: 8099
Amount: 0.07826
Amount Units: ng/ul



Data Editor: jcg, 18-Dec-2015 16:52:30
Audit Action: Mint
Audit Reason: MA

Report Date: 29-Dec-2015 17:40:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B03.D		
Lab Sample ID:	SSTD0.1ON	Client Sample ID:	SSTD0.1ON
Injection Date:	18-Dec-2015 14:51:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4121815B, SVMS 1701		
Method:	\\Organics\HH\chem\msd4.i\4121815B.b\Sim2544.m		
Method Date:	29-Dec-2015 17:08:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Ical, Level: 2	ALS Bottle:	2
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	18-Dec-2015 16:53:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.779	3.779	0.000	29087	0.20000	0.20175	
108 1,4-Dioxane	88.0	3.797	3.797	0.000	30426	0.20000	0.20564	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	56228	0.20000	0.20737	
5 bis(2-Chloroethyl)Ether	93.0	5.771	5.771	0.000	69404	0.20000	0.20270	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	100460	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.186	6.186	0.000	78134	0.20000	0.20489	
13 N-Nitroso-di-n-propylamine	70.0	6.290	6.290	0.000	42943	0.20000	0.22054	
15 Hexachloroethane	117.0	6.436	6.436	0.000	19472	0.20000	0.19262	
$ 16 Nitrobenzene-d5	128.0	6.457	6.457	0.000	22985	0.20000	0.18394	
17 Nitrobenzene	77.0	6.478	6.478	0.000	60105	0.20000	0.18856	
$ 96 2,4-Dichlorophenol-d3	165.0	6.935	6.935	0.000	50108	0.20000	0.18977	
* 23 Naphthalene-d8	136.0	7.066	7.066	0.000	457237	0.40000	0.40000	
24 Naphthalene	128.0	7.075	7.075	0.000	233314	0.20000	0.19675	
25 4-Chloroaniline	127.0	7.101	7.101	0.000	79591	0.20000	0.16844	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	32698	0.20000	0.19559	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	127289	0.20000	0.20134	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	135217	0.20000	0.19312	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	54273	0.20000	0.19512	
31 2,4,6-Trichlorophenol	196.0	7.886	7.886	0.000	25820	0.20000	0.17545	
34 1,1'-Biphenyl	154.0	8.032	8.032	0.000	182086	0.20000	0.19308	
39 2,6-Dinitrotoluene	165.0	8.317	8.317	0.000	17789	0.20000	0.17223	M
38 Acenaphthylene	152.0	8.425	8.425	0.000	143047	0.20000	0.17749	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	167550	0.40000	0.40000	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	123151	0.20000	0.18874	
43 2,4-Dinitrophenol	184.0	8.579	8.579	0.000	35131	1.0000	0.51531	
46 2,4-Dinitrotoluene	165.0	8.672	8.672	0.000	17988	0.20000	0.16505	
45 Dibenzofuran	168.0	8.718	8.718	0.000	159809	0.20000	0.19026	
48 Fluorene	166.0	9.012	9.012	0.000	109469	0.20000	0.18474	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	5647	0.20000	0.12520	
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	39400	0.20000	0.18671	
56 Atrazine	200.0	9.484	9.484	0.000	30973	0.20000	0.16913	
57 Pentachlorophenol	266.0	9.650	9.650	0.000	16309	0.40000	0.30819	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	363029	0.40000	0.40000	
59 Phenanthrene	178.0	9.838	9.838	0.000	188513	0.20000	0.19067	
60 Anthracene	178.0	9.880	9.880	0.000	172969	0.20000	0.18007	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	178112	0.20000	0.18607	
63 Fluoranthene	202.0	10.959	10.959	0.000	190650	0.20000	0.17768	
64 Pyrene	202.0	11.221	11.221	0.000	193138	0.20000	0.18731	
68 3,3'-Dichlorobenzidine	252.0	12.670	12.670	0.000	43570	0.20000	0.18322	
67 Benzo(a)anthracene	228.0	12.757	12.757	0.000	171074	0.20000	0.18325	
* 69 Chrysene-d12	240.0	12.775	12.775	0.000	376065	0.40000	0.40000	
70 Chrysene	228.0	12.810	12.810	0.000	177698	0.20000	0.19177	
73 Benzo(b)fluoranthene	252.0	14.436	14.436	0.000	176099	0.20000	0.18816	
74 Benzo(k)fluoranthene	252.0	14.480	14.480	0.000	174035	0.20000	0.18704	
75 Benzo(a)pyrene	252.0	15.007	15.007	0.000	156836	0.20000	0.18304	
* 76 Perylene-d12	264.0	15.110	15.110	0.000	310576	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.360	17.360	0.000	177429	0.20000	0.18389	
78 Dibenzo(a,h)anthracene	278.0	17.382	17.382	0.000	154260	0.20000	0.18372	
79 Benzo(g,h,i)perylene	276.0	18.045	18.045	0.000	151899	0.20000	0.18786	

QC Flag Legend

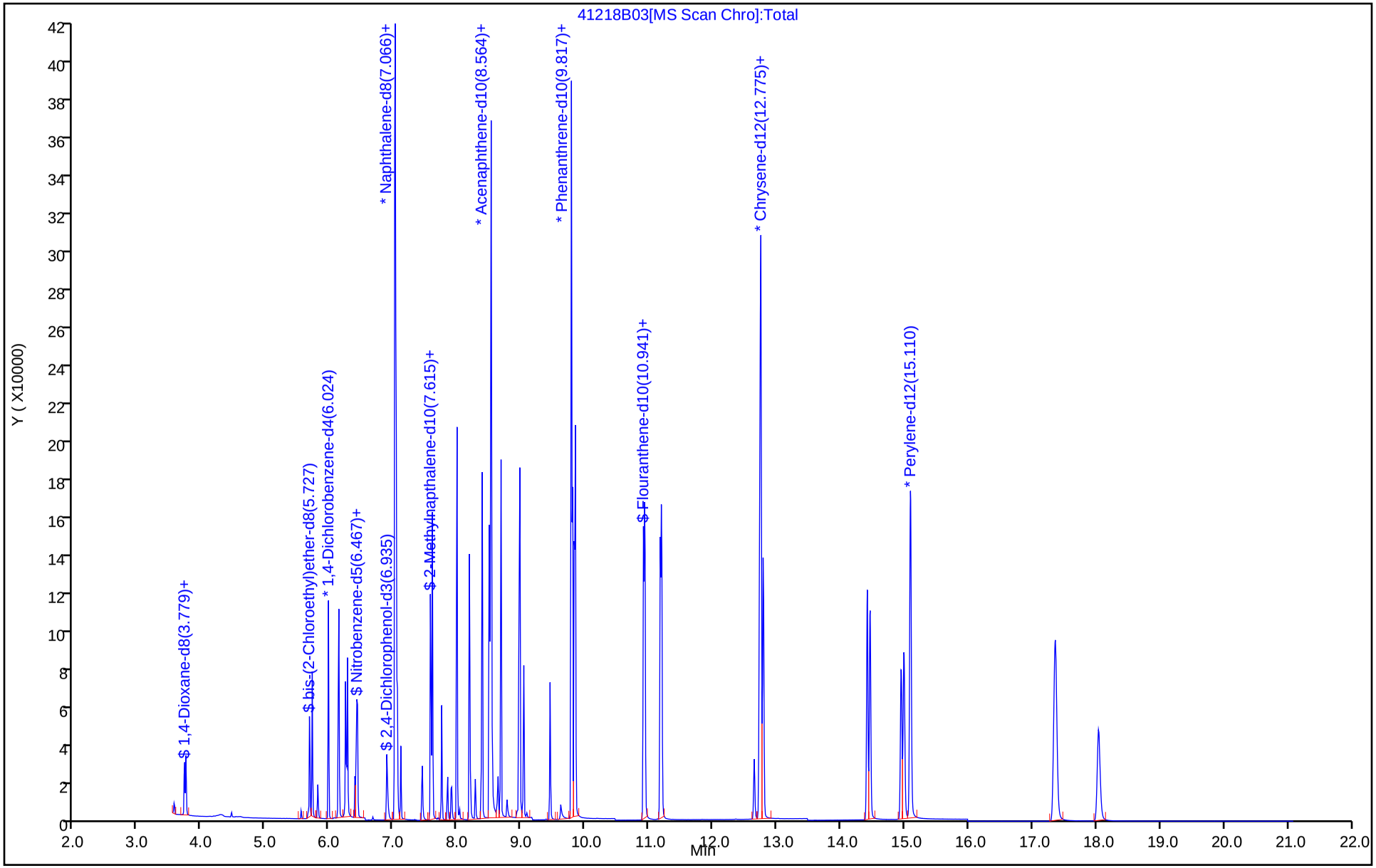
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 29-Dec-2015 17:40:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B03.D				
Injection Date:	18-Dec-2015 14:51:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.1ON	Lab ID:	SSTD0.1ON		
Sample Info:	4121815B, SVMS 1701				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 29-Dec-2015 17:40:56 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

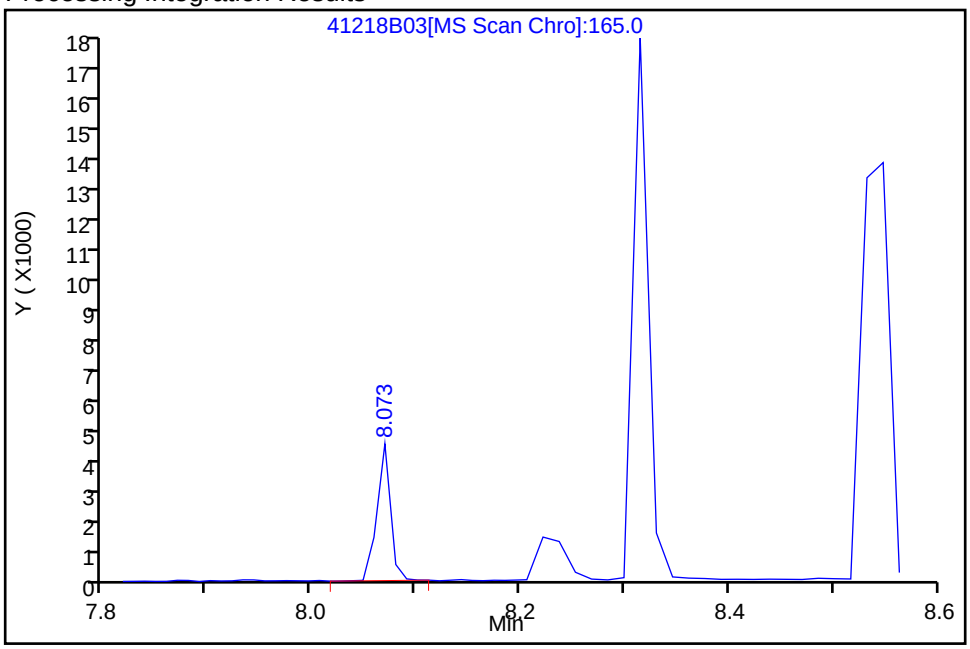
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B03.D		
Injection Date:	18-Dec-2015 14:51:30	Inst. ID:	msd4.i
Client ID:	SSTD0.1ON	Lab ID:	SSTD0.1ON
Sample Info:	4121815B, SVMS 1701		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

39 2,6-Dinitrotoluene, CAS: 606-20-2

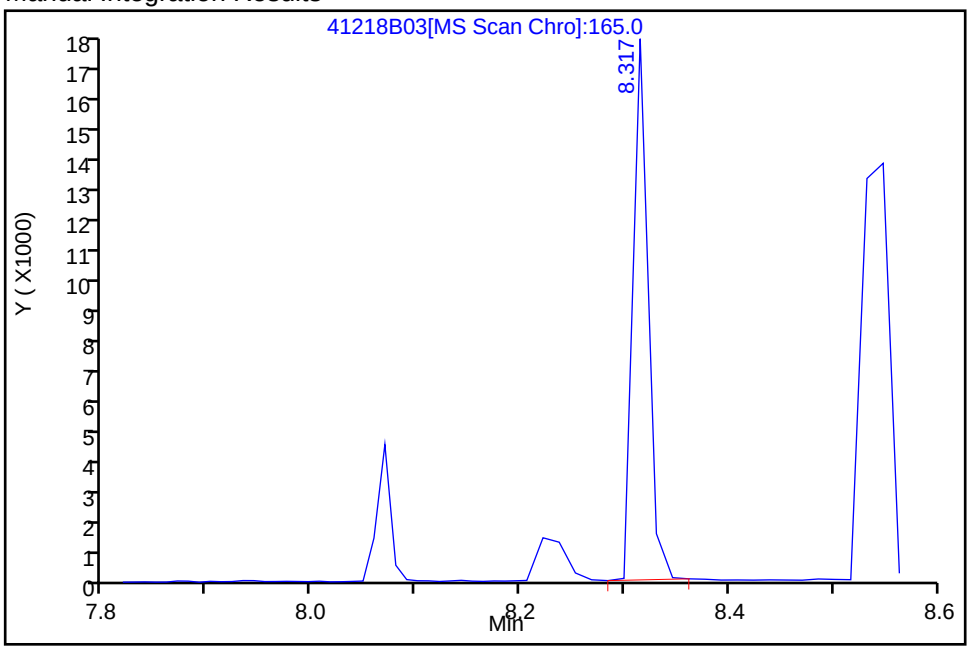
Processing Integration Results

RT: 8.073
Area: 4879
Amount: 0
Amount Units: ng/ul
Conc:



Manual Integration Results

RT: 8.317
Area: 17789
Amount: 0.17223
Amount Units: ng/ul



Data Editor: jcg, 18-Dec-2015 16:53:30
Audit Action: Mint
Audit Reason: MA

Report Date: 29-Dec-2015 17:40:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B04.D		
Lab Sample ID:	SSTD0.2ON	Client Sample ID:	SSTD0.2ON
Injection Date:	18-Dec-2015 15:17:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4121815B, SVMS 1702		
Method:	\\Organics\HH\chem\msd4.i\4121815B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:08:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Ical, Level: 3	ALS Bottle:	3
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	21-Dec-2015 08:46:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.770	3.770	0.000	61724	0.40000	0.43080	
108 1,4-Dioxane	88.0	3.796	3.796	0.000	62905	0.40000	0.42781	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	112287	0.40000	0.41670	
5 bis(2-Chloroethyl)Ether	93.0	5.770	5.770	0.000	141483	0.40000	0.41578	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	99837	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.184	6.184	0.000	156934	0.40000	0.41409	
13 N-Nitroso-di-n-propylamine	70.0	6.288	6.288	0.000	93142	0.40000	0.48132	
15 Hexachloroethane	117.0	6.445	6.445	0.000	40521	0.40000	0.40334	
$ 16 Nitrobenzene-d5	128.0	6.455	6.455	0.000	50226	0.40000	0.40274	
17 Nitrobenzene	77.0	6.476	6.476	0.000	130418	0.40000	0.40996	
$ 96 2,4-Dichlorophenol-d3	165.0	6.935	6.935	0.000	107318	0.40000	0.40725	
* 23 Naphthalene-d8	136.0	7.066	7.066	0.000	456334	0.40000	0.40000	
24 Naphthalene	128.0	7.083	7.083	0.000	478384	0.40000	0.40421	
25 4-Chloroaniline	127.0	7.074	7.074	0.000	206889	0.40000	0.43871	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	67441	0.40000	0.40420	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	249142	0.40000	0.39487	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	283215	0.40000	0.40528	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	112047	0.40000	0.41111	
31 2,4,6-Trichlorophenol	196.0	7.885	7.885	0.000	56914	0.40000	0.39468	
34 1,1'-Biphenyl	154.0	8.031	8.031	0.000	376830	0.40000	0.40780	
39 2,6-Dinitrotoluene	165.0	8.316	8.316	0.000	36599	0.40000	0.36163	
38 Acenaphthylene	152.0	8.425	8.425	0.000	317046	0.40000	0.40147	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	164174	0.40000	0.40000	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	258931	0.40000	0.40499	
43 2,4-Dinitrophenol	184.0	8.579	8.579	0.000	97304	2.0000	1.4566	
46 2,4-Dinitrotoluene	165.0	8.672	8.672	0.000	41265	0.40000	0.38641	
45 Dibenzofuran	168.0	8.718	8.718	0.000	323813	0.40000	0.39344	
48 Fluorene	166.0	9.012	9.012	0.000	219223	0.40000	0.37757	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	15392	0.40000	0.35487	
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	81185	0.40000	0.40006	
56 Atrazine	200.0	9.484	9.484	0.000	71671	0.40000	0.40698	
57 Pentachlorophenol	266.0	9.650	9.650	0.000	40215	0.80000	0.79024	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	349104	0.40000	0.40000	
59 Phenanthrene	178.0	9.838	9.838	0.000	389609	0.40000	0.40979	
60 Anthracene	178.0	9.879	9.879	0.000	373243	0.40000	0.40406	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	362446	0.40000	0.39375	
63 Fluoranthene	202.0	10.959	10.959	0.000	411017	0.40000	0.39834	
64 Pyrene	202.0	11.221	11.221	0.000	417508	0.40000	0.39989	
68 3,3'-Dichlorobenzidine	252.0	12.670	12.670	0.000	74682	0.40000	0.31015	
67 Benzo(a)anthracene	228.0	12.757	12.757	0.000	371834	0.40000	0.39336	
* 69 Chrysene-d12	240.0	12.775	12.775	0.000	380791	0.40000	0.40000	
70 Chrysene	228.0	12.809	12.809	0.000	369940	0.40000	0.39428	
73 Benzo(b)fluoranthene	252.0	14.436	14.436	0.000	379299	0.40000	0.39112	
74 Benzo(k)fluoranthene	252.0	14.480	14.480	0.000	373297	0.40000	0.38718	
75 Benzo(a)pyrene	252.0	15.007	15.007	0.000	343343	0.40000	0.38671	
* 76 Perylene-d12	264.0	15.106	15.106	0.000	321818	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.356	17.356	0.000	389798	0.40000	0.38988	
78 Dibenzo(a,h)anthracene	278.0	17.375	17.375	0.000	339430	0.40000	0.39013	
79 Benzo(g,h,i)perylene	276.0	18.045	18.045	0.000	330809	0.40000	0.39483	

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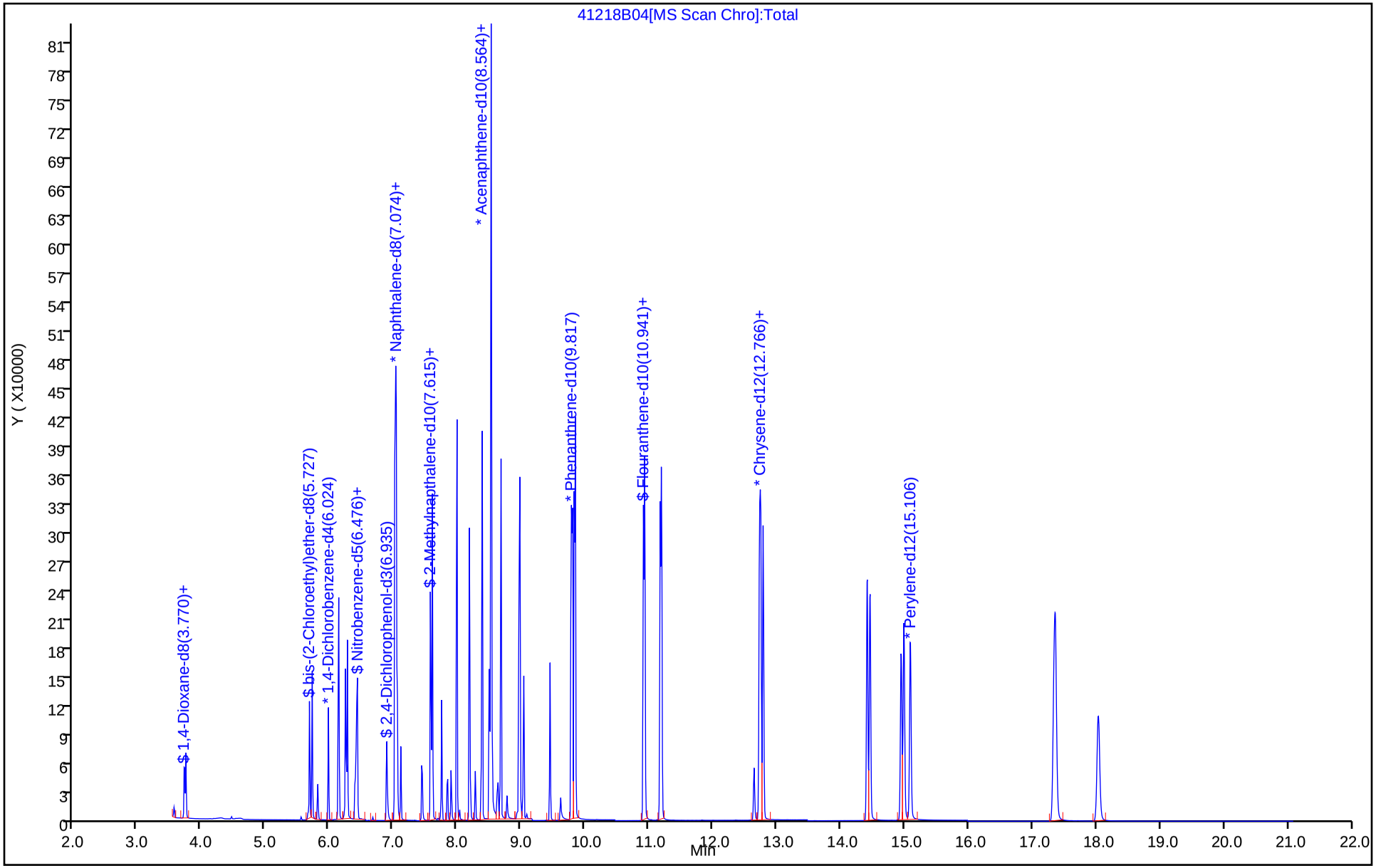
Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B04.D				
Injection Date:	18-Dec-2015 15:17:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.2ON	Lab ID:	SSTD0.2ON		
Sample Info:	4121815B, SVMS 1702				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 29-Dec-2015 17:40:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B05.D		
Lab Sample ID:	SSTD0.4ON	Client Sample ID:	SSTD0.4ON
Injection Date:	18-Dec-2015 15:44:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4121815B, SVMS 1703		
Method:	\\Organics\HH\chem\msd4.i\4121815B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:08:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Ical, Level: 4	ALS Bottle:	4
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	21-Dec-2015 08:46:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.770	3.770	0.000	111982	0.80000	0.77377	
108 1,4-Dioxane	88.0	3.797	3.797	0.000	114789	0.80000	0.77287	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	214572	0.80000	0.78833	
5 bis(2-Chloroethyl)Ether	93.0	5.771	5.771	0.000	280561	0.80000	0.81627	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	100844	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.186	6.186	0.000	315520	0.80000	0.82423	
13 N-Nitroso-di-n-propylamine	70.0	6.290	6.290	0.000	128541	0.80000	0.65762	
15 Hexachloroethane	117.0	6.436	6.436	0.000	83877	0.80000	0.82657	
$ 16 Nitrobenzene-d5	128.0	6.457	6.457	0.000	99910	0.80000	0.80124	
17 Nitrobenzene	77.0	6.467	6.467	0.000	260336	0.80000	0.81846	
$ 96 2,4-Dichlorophenol-d3	165.0	6.935	6.935	0.000	210572	0.80000	0.79918	
* 23 Naphthalene-d8	136.0	7.057	7.057	0.000	456275	0.40000	0.40000	
24 Naphthalene	128.0	7.075	7.075	0.000	957707	0.80000	0.80931	
25 4-Chloroaniline	127.0	7.075	7.075	0.000	421243	0.80000	0.89336	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	136824	0.80000	0.82015	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	513594	0.80000	0.81411	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	574948	0.80000	0.82286	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	224634	0.80000	0.79245	
31 2,4,6-Trichlorophenol	196.0	7.875	7.875	0.000	119182	0.80000	0.79465	
34 1,1'-Biphenyl	154.0	8.032	8.032	0.000	743774	0.80000	0.77389	
39 2,6-Dinitrotoluene	165.0	8.317	8.317	0.000	86656	0.80000	0.82325	
38 Acenaphthylene	152.0	8.425	8.425	0.000	646729	0.80000	0.78738	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	170754	0.40000	0.40000	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	523109	0.80000	0.78666	
43 2,4-Dinitrophenol	184.0	8.564	8.564	0.000	275729	4.0000	3.9686	
46 2,4-Dinitrotoluene	165.0	8.657	8.657	0.000	94085	0.80000	0.84706	
45 Dibenzofuran	168.0	8.718	8.718	0.000	669143	0.80000	0.78169	
48 Fluorene	166.0	9.012	9.012	0.000	447699	0.80000	0.74136	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	35756	0.80000	0.82083	
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	165465	0.80000	0.81187	
56 Atrazine	200.0	9.484	9.484	0.000	134121	0.80000	0.75832	
57 Pentachlorophenol	266.0	9.651	9.651	0.000	87180	1.6000	1.7058	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	350609	0.40000	0.40000	
59 Phenanthrene	178.0	9.838	9.838	0.000	760755	0.80000	0.79672	
60 Anthracene	178.0	9.880	9.880	0.000	767507	0.80000	0.82732	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	731088	0.80000	0.79082	
63 Fluoranthene	202.0	10.959	10.959	0.000	829464	0.80000	0.80043	
64 Pyrene	202.0	11.221	11.221	0.000	847730	0.80000	0.80332	
68 3,3'-Dichlorobenzidine	252.0	12.670	12.670	0.000	207214	0.80000	0.85139	
67 Benzo(a)anthracene	228.0	12.757	12.757	0.000	775278	0.80000	0.81144	
* 69 Chrysene-d12	240.0	12.775	12.775	0.000	384883	0.40000	0.40000	
70 Chrysene	228.0	12.810	12.810	0.000	753559	0.80000	0.79459	
73 Benzo(b)fluoranthene	252.0	14.436	14.436	0.000	748208	0.80000	0.82563	
74 Benzo(k)fluoranthene	252.0	14.477	14.477	0.000	740214	0.80000	0.82159	
75 Benzo(a)pyrene	252.0	15.011	15.011	0.000	684863	0.80000	0.82547	
* 76 Perylene-d12	264.0	15.110	15.110	0.000	300727	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.353	17.353	0.000	778123	0.80000	0.83288	
78 Dibenzo(a,h)anthracene	278.0	17.375	17.375	0.000	680175	0.80000	0.83660	
79 Benzo(g,h,i)perylene	276.0	18.045	18.045	0.000	649850	0.80000	0.83001	

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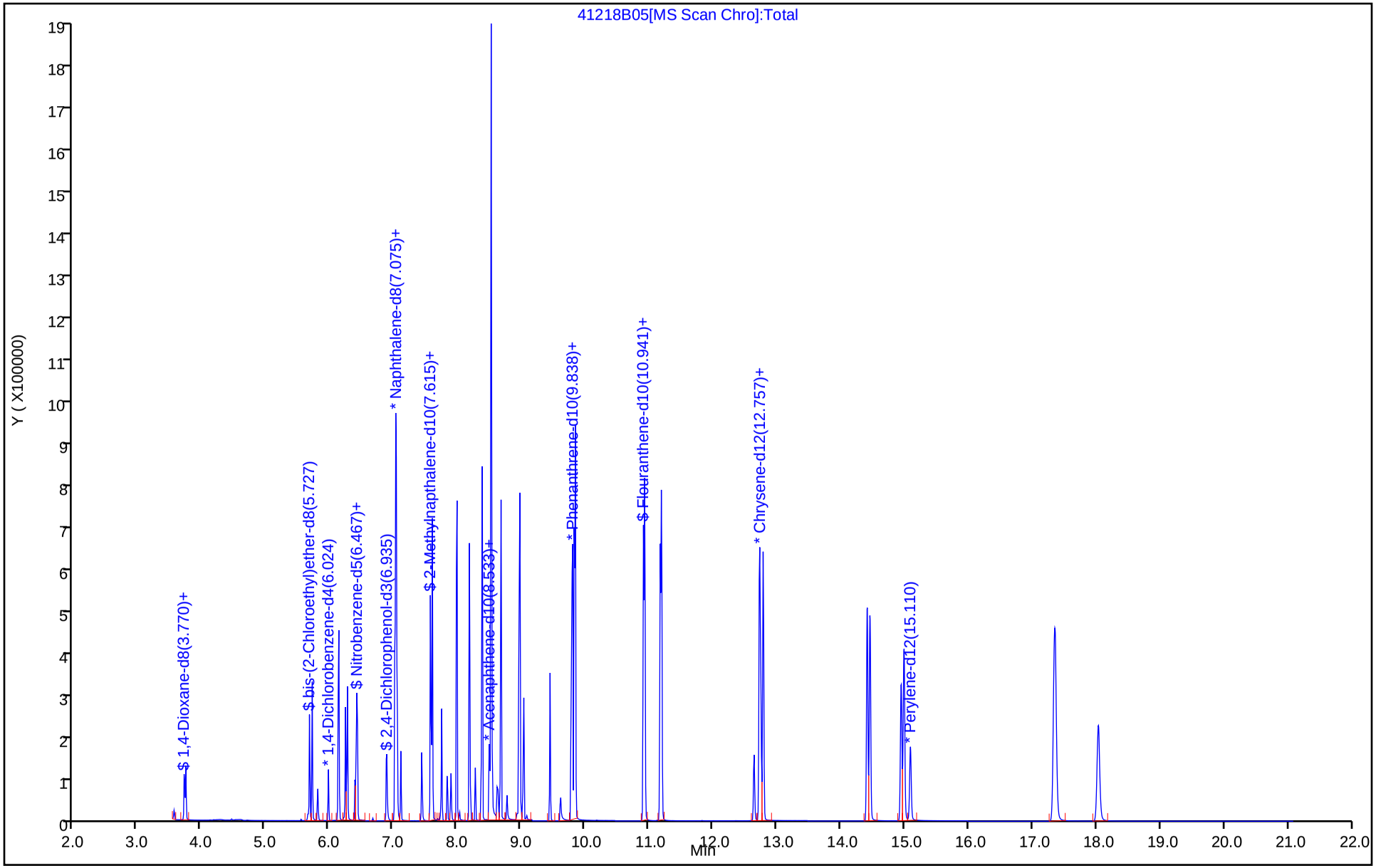
Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B05.D				
Injection Date:	18-Dec-2015 15:44:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.4ON	Lab ID:	SSTD0.4ON		
Sample Info:	4121815B, SVMS 1703				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 29-Dec-2015 17:40:57 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B06.D		
Lab Sample ID:	SSTD0.8ON	Client Sample ID:	SSTD0.8ON
Injection Date:	18-Dec-2015 16:10:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4121815B, SVMS 1704		
Method:	\\Organics\HH\chem\msd4.i\4121815B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:08:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Ical, Level: 5	ALS Bottle:	5
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	21-Dec-2015 08:46:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.770	3.770	0.000	222127	1.6000	1.5651	
108 1,4-Dioxane	88.0	3.796	3.796	0.000	227829	1.6000	1.5642	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	420550	1.6000	1.5755	
5 bis(2-Chloroethyl)Ether	93.0	5.770	5.770	0.000	531909	1.6000	1.5780	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	98896	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.184	6.184	0.000	577463	1.6000	1.5382	
13 N-Nitroso-di-n-propylamine	70.0	6.288	6.288	0.000	242921	1.6000	1.2673	
15 Hexachloroethane	117.0	6.444	6.444	0.000	157598	1.6000	1.5837	
$ 16 Nitrobenzene-d5	128.0	6.455	6.455	0.000	197034	1.6000	1.6046	
17 Nitrobenzene	77.0	6.476	6.476	0.000	499973	1.6000	1.5962	
$ 96 2,4-Dichlorophenol-d3	165.0	6.926	6.926	0.000	418196	1.6000	1.6118	
* 23 Naphthalene-d8	136.0	7.066	7.066	0.000	449316	0.40000	0.40000	
24 Naphthalene	128.0	7.083	7.083	0.000	1813257	1.6000	1.5560	
25 4-Chloroaniline	127.0	7.074	7.074	0.000	797112	1.6000	1.7167	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	259764	1.6000	1.5812	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	1023509	1.6000	1.6475	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	1085359	1.6000	1.5774	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	425843	1.6000	1.6191	
31 2,4,6-Trichlorophenol	196.0	7.875	7.875	0.000	235318	1.6000	1.6910	
34 1,1'-Biphenyl	154.0	8.031	8.031	0.000	1403469	1.6000	1.5739	
39 2,6-Dinitrotoluene	165.0	8.316	8.316	0.000	184877	1.6000	1.8930	
38 Acenaphthylene	152.0	8.425	8.425	0.000	1240548	1.6000	1.6278	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	158430	0.40000	0.40000	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	1008670	1.6000	1.6348	
43 2,4-Dinitrophenol	184.0	8.564	8.564	0.000	648965	8.0000	10.067	
46 2,4-Dinitrotoluene	165.0	8.656	8.656	0.000	174619	1.6000	1.6944	
45 Dibenzofuran	168.0	8.718	8.718	0.000	1217146	1.6000	1.5325	
48 Fluorene	166.0	9.012	9.012	0.000	829953	1.6000	1.4813	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	76339	1.6000	1.8429	
55 Hexachlorobenzene	284.0	9.483	9.483	0.000	308329	1.6000	1.5909	
56 Atrazine	200.0	9.483	9.483	0.000	287817	1.6000	1.7113	
57 Pentachlorophenol	266.0	9.650	9.650	0.000	209376	3.2000	4.3081	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	333404	0.40000	0.40000	
59 Phenanthrene	178.0	9.838	9.838	0.000	1376888	1.6000	1.5164	
60 Anthracene	178.0	9.879	9.879	0.000	1420821	1.6000	1.6106	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	1547175	1.6000	1.7599	
63 Fluoranthene	202.0	10.959	10.959	0.000	1630981	1.6000	1.6551	
64 Pyrene	202.0	11.220	11.220	0.000	1657002	1.6000	1.5639	
68 3,3'-Dichlorobenzidine	252.0	12.670	12.670	0.000	431135	1.6000	1.7644	
67 Benzo(a)anthracene	228.0	12.757	12.757	0.000	1540690	1.6000	1.6061	
* 69 Chrysene-d12	240.0	12.774	12.774	0.000	386421	0.40000	0.40000	
70 Chrysene	228.0	12.809	12.809	0.000	1456488	1.6000	1.5297	
73 Benzo(b)fluoranthene	252.0	14.436	14.436	0.000	1497264	1.6000	1.5725	
74 Benzo(k)fluoranthene	252.0	14.480	14.480	0.000	1488722	1.6000	1.5727	
75 Benzo(a)pyrene	252.0	15.007	15.007	0.000	1412235	1.6000	1.6201	
* 76 Perylene-d12	264.0	15.110	15.110	0.000	315968	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.356	17.356	0.000	1558152	1.6000	1.5873	
78 Dibenzo(a,h)anthracene	278.0	17.375	17.375	0.000	1358787	1.6000	1.5907	
79 Benzo(g,h,i)perylene	276.0	18.045	18.045	0.000	1277341	1.6000	1.5528	

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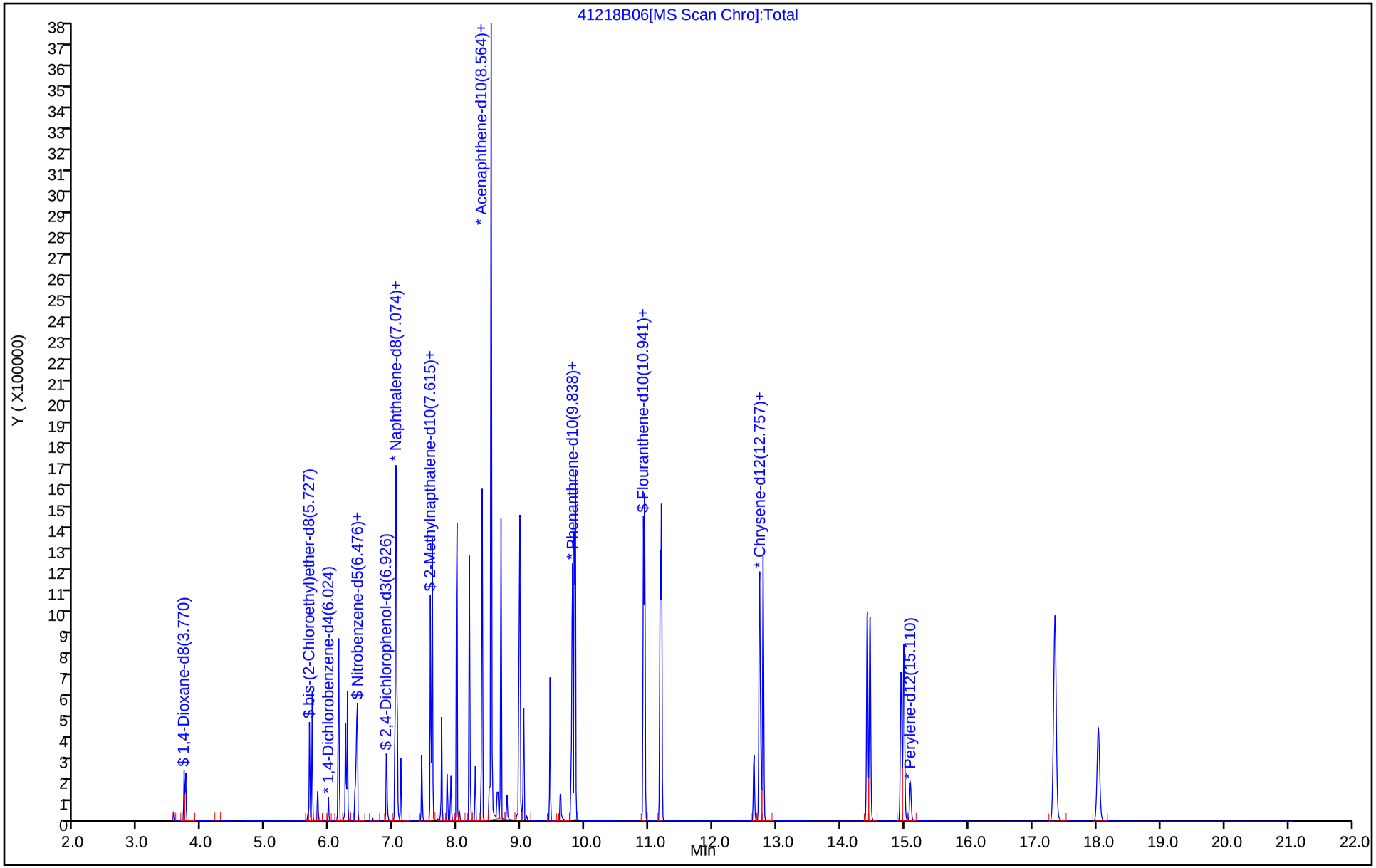
Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B06.D				
Injection Date:	18-Dec-2015 16:10:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.8ON	Lab ID:	SSTD0.8ON		
Sample Info:	4121815B, SVMS 1704				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 29-Dec-2015 17:40:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B07.D		
Lab Sample ID:	SSTD1.6ON	Client Sample ID:	SSTD1.6ON
Injection Date:	18-Dec-2015 16:36:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4121815B, SVMS 1705		
Method:	\\Organics\HH\chem\msd4.i\4121815B.b\SIM2544.m		
Method Date:	29-Dec-2015 17:08:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	Ical, Level: 6	ALS Bottle:	6
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rz	Review Date:	29-Dec-2015 16:56:30

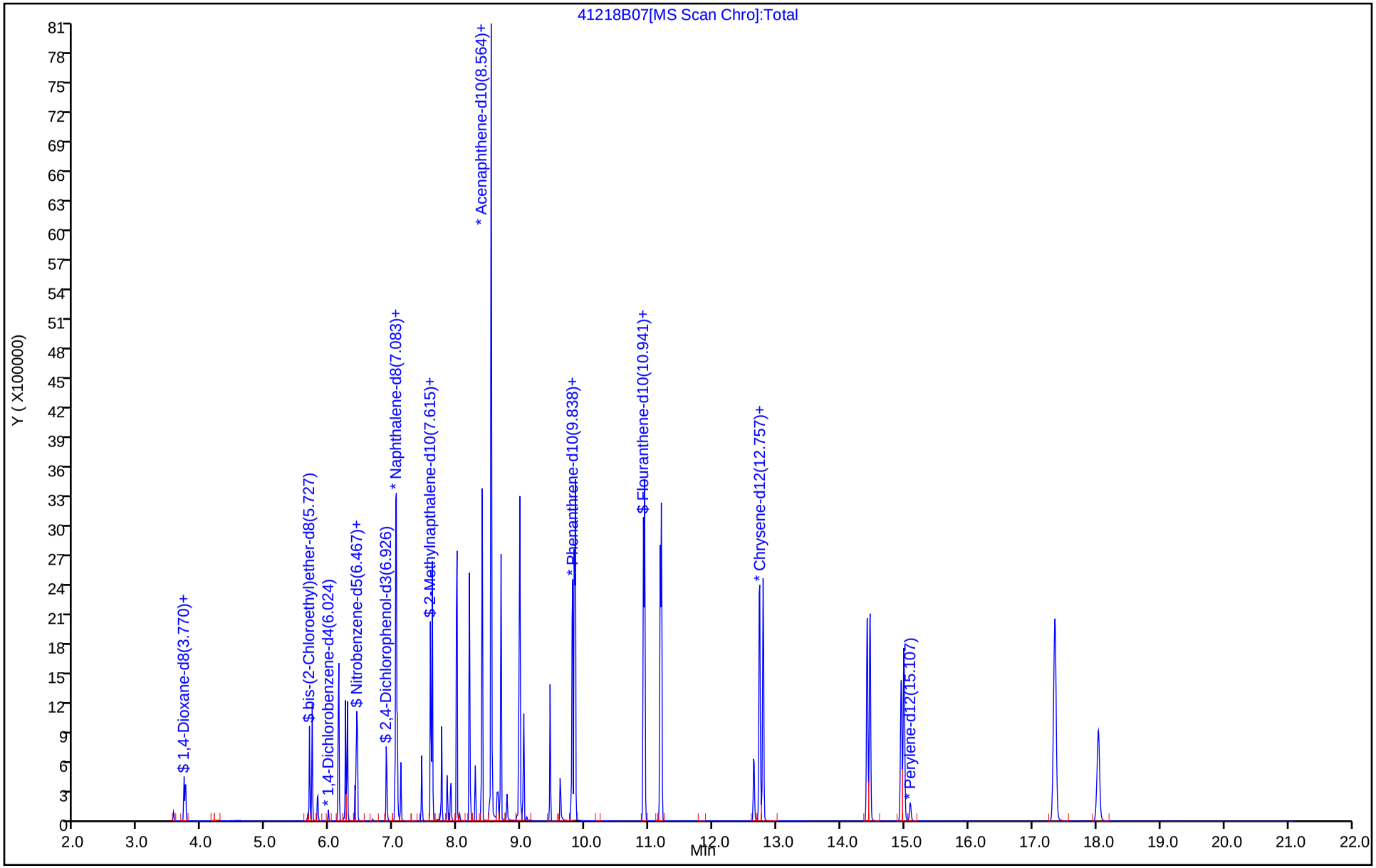
Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.770	3.770	0.000	445391	3.2000	3.1003	
108 1,4-Dioxane	88.0	3.797	3.797	0.000	452226	3.2000	3.0674	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.727	5.727	0.000	822471	3.2000	3.0441	
5 bis(2-Chloroethyl)Ether	93.0	5.771	5.771	0.000	1026796	3.2000	3.0095	
* 8 1,4-Dichlorobenzene-d4	152.0	6.024	6.024	0.000	100103	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.186	6.186	0.000	1153554	3.2000	3.0357	
13 N-Nitroso-di-n-propylamine	70.0	6.290	6.290	0.000	613737	3.2000	3.1631	
15 Hexachloroethane	117.0	6.436	6.436	0.000	324120	3.2000	3.2177	
$ 16 Nitrobenzene-d5	128.0	6.457	6.457	0.000	418128	3.2000	3.4208	
17 Nitrobenzene	77.0	6.467	6.467	0.000	1009297	3.2000	3.2371	
$ 96 2,4-Dichlorophenol-d3	165.0	6.926	6.926	0.000	848531	3.2000	3.2854	
* 23 Naphthalene-d8	136.0	7.066	7.066	0.000	447258	0.40000	0.40000	
24 Naphthalene	128.0	7.083	7.083	0.000	3637088	3.2000	3.1355	
25 4-Chloroaniline	127.0	7.101	7.101	0.000	1288873	3.2000	2.7885	
26 Hexachlorobutadiene	225.0	7.153	7.153	0.000	522323	3.2000	3.1940	
$ 115 2-Methylnapthalene-d10	152.0	7.615	7.615	0.000	1989047	3.2000	3.2164	
29 2-Methylnaphthalene	142.0	7.646	7.646	0.000	2170828	3.2000	3.1695	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.792	7.792	0.000	841200	3.2000	3.1811	
31 2,4,6-Trichlorophenol	196.0	7.875	7.875	0.000	486142	3.2000	3.4747	
34 1,1'-Biphenyl	154.0	8.031	8.031	0.000	2772786	3.2000	3.0927	
39 2,6-Dinitrotoluene	165.0	8.317	8.317	0.000	389611	3.2000	3.9678	
38 Acenaphthylene	152.0	8.425	8.425	0.000	2605177	3.2000	3.4001	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	159288	0.40000	0.40000	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.564	8.564	0.000	2025399	3.2000	3.2651	
43 2,4-Dinitrophenol	184.0	8.564	8.564	0.000	1561585	16.000	24.094	
46 2,4-Dinitrotoluene	165.0	8.657	8.657	0.000	394701	3.2000	3.8094	
45 Dibenzofuran	168.0	8.718	8.718	0.000	2363643	3.2000	2.9600	
48 Fluorene	166.0	9.012	9.012	0.000	1772171	3.2000	3.1458	
51 4,6-Dinitro-2-methylphenol	198.0	9.027	9.027	0.000	180208	3.2000	4.1887	
55 Hexachlorobenzene	284.0	9.484	9.484	0.000	616737	3.2000	3.0639	
56 Atrazine	200.0	9.484	9.484	0.000	625744	3.2000	3.5822	
57 Pentachlorophenol	266.0	9.640	9.640	0.000	525223	6.4000	10.405	
* 58 Phenanthrene-d10	188.0	9.817	9.817	0.000	346278	0.40000	0.40000	
59 Phenanthrene	178.0	9.838	9.838	0.000	2895463	3.2000	3.0703	
60 Anthracene	178.0	9.880	9.880	0.000	2979007	3.2000	3.2513	
$ 116 Flouranthene-d10	212.0	10.941	10.941	0.000	3246598	3.2000	3.5558	
63 Fluoranthene	202.0	10.959	10.959	0.000	3511436	3.2000	3.4309	
64 Pyrene	202.0	11.221	11.221	0.000	3490104	3.2000	3.1895	
68 3,3'-Dichlorobenzidine	252.0	12.661	12.661	0.000	921933	3.2000	3.6531	
67 Benzo(a)anthracene	228.0	12.757	12.757	0.000	3240679	3.2000	3.2710	
* 69 Chrysene-d12	240.0	12.775	12.775	0.000	399093	0.40000	0.40000	
70 Chrysene	228.0	12.810	12.810	0.000	3001264	3.2000	3.0520	
73 Benzo(b)fluoranthene	252.0	14.436	14.436	0.000	3134340	3.2000	3.1242	
74 Benzo(k)fluoranthene	252.0	14.480	14.480	0.000	3095165	3.2000	3.1032	
75 Benzo(a)pyrene	252.0	15.007	15.007	0.000	3007535	3.2000	3.2745	
* 76 Perylene-d12	264.0	15.107	15.107	0.000	332919	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.356	17.356	0.000	3305442	3.2000	3.1959	
78 Dibenzo(a,h)anthracene	278.0	17.371	17.371	0.000	2873587	3.2000	3.1927	
79 Benzo(g,h,i)perylene	276.0	18.045	18.045	0.000	2654118	3.2000	3.0621	

Report Date: 29-Dec-2015 17:40:58 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B07.D				
Injection Date:	18-Dec-2015 16:36:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD1.6ON	Lab ID:	SSTD1.6ON		
Sample Info:	4121815B, SVMS 1705				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Continuing Calibration Data

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/31/2015 Time: 1227

Lab File ID: 41231D02 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2PF Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
1,4-Dioxane	0.589	0.638	0.010	8.3	40.0
Naphthalene	1.037	1.032	0.200	-0.5	20.0
2-Methylnaphthalene	0.613	0.615	0.100	0.4	20.0
Acenaphthylene	1.924	2.328	0.400	21.0	20.0
Acenaphthene	1.558	1.498	0.200	-3.8	20.0
Fluorene	1.415	1.614	0.200	14.1	20.0
Pentachlorophenol	0.058	0.086	0.010	48.0	50.0
Phenanthrene	1.089	1.101	0.200	1.1	20.0
Anthracene	1.058	1.057	0.200	-0.1	20.0
Fluoranthene	1.182	1.168	0.100	-1.2	20.0
Pyrene	1.097	1.081	0.400	-1.4	25.0
Benzo(a)anthracene	0.993	0.989	0.300	-0.4	20.0
Chrysene	0.986	0.959	0.200	-2.7	20.0
Benzo(b)fluoranthene	1.205	1.180	0.010	-2.1	25.0
Benzo(k)fluoranthene	1.198	1.185	0.010	-1.1	25.0
Benzo(a)pyrene	1.104	1.078	0.010	-2.3	20.0
Indeno(1,2,3-cd)pyrene	1.243	1.265	0.010	1.8	25.0
Dibenzo(a,h)anthracene	1.081	1.111	0.010	2.7	25.0
Benzo(g,h,i)perylene	1.041	1.067	0.010	2.4	30.0
Dibenzofuran	2.005	2.308	0.300	15.1	20.0
Hexachlorobenzene	0.233	0.234	0.050	0.6	20.0
Hexachlorobutadiene	0.146	0.154	0.040	5.0	20.0
bis(2-Chloroethyl)ether	1.363	1.381	0.100	1.3	20.0
2,2'-Oxybis(1-chloropropane)	1.518	1.594	0.010	5.0	25.0
N-Nitrosodi-n-propylamine	0.775	0.976	0.080	25.9	50.0
Hexachloroethane	0.403	0.440	0.100	9.2	20.0
Nitrobenzene	0.279	0.264	0.090	-5.5	20.0
4-Chloroaniline	0.413	0.463	0.010	12.0	40.0
2,4,6-Trichlorophenol	0.351	0.377	0.090	7.3	20.0
1,1'-Biphenyl	2.251	2.384	0.200	5.9	20.0
2,6-Dinitrotoluene	0.247	0.244	0.080	-1.2	20.0
2,4-Dinitrophenol	0.163	0.135	0.010	-16.8	50.0
2,4-Dinitrotoluene	0.260	0.276	0.070	6.2	20.0
4,6-Dinitro-2-methylphenol	0.050	0.044	0.010	-10.6	30.0
1,2,4,5-Tetrachlorobenzene	0.664	0.725	0.100	9.2	20.0
Atrazine	0.202	0.210	0.010	4.3	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/31/2015 Time: 1227

Lab File ID: 41231D02 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2PF Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
3,3'-Dichlorobenzidine	0.253	0.241	0.010	-4.7	40.0
1,4-Dioxane-d8	0.574	0.645	0.010	12.4	25.0
Bis(2-Chloroethyl)ether-d8	1.080	1.100	0.100	1.8	20.0
Nitrobenzene-d5	0.109	0.106	0.050	-3.4	20.0
2,4-Dichlorophenol-d3	0.231	0.227	0.060	-1.7	20.0
Fluoranthene-d10	1.055	1.037	0.010	-1.6	25.0
2-Methylnaphthalene-d10	0.553	0.558	0.010	0.9	25.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd4.i\4123115D.b\41231D02.D
Lab Sample ID: SSTD0.2PF Client Sample ID: SSTD0.2PF
Injection Date: 31-Dec-2015 12:27:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd4.i
Sample Info: 4123115D, SVMS 1702
Method: \\Organics\HH\chem\msd4.i\4123115D.b\SIM2544.m
Method Date: 04-Jan-2016 17:23:30 Quant Method: ISTD
Calib Date: 18-Dec-2015 16:36:30 Calib File: 41218B07.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
$ 115 2-Methylnapthalene-d10	0.55306	0.558287	0.01	0.9	25	101
$ 116 Flouranthene-d10	1.054701	1.037411	0.01	-1.6	25	98
5 bis(2-Chloroethyl)Ether	1.363344	1.380941	0.1	1.3	20	101
11 2,2'-oxybis(1-Chloroprop	1.518411	1.593729	0.01	5	25	105
13 N-Nitroso-di-n-propylami	0.775314	0.976418	0.08	25.9	50	126
15 Hexachloroethane	0.402506	0.439586	0.1	9.2	20	109
$ 16 Nitrobenzene-d5	0.109315	0.105554	0.05	-3.4	20	97
17 Nitrobenzene	0.27885	0.263575	0.09	-5.5	20	95
24 Naphthalene	1.037407	1.031868	0.2	-0.5	20	99
25 4-Chloroaniline	0.41337	0.463077	0.01	12	40	112
26 Hexachlorobutadiene	0.146252	0.153575	0.04	5	20	105
29 2-Methylnaphthalene	0.612539	0.615082	0.1	0.4	20	100
31 2,4,6-Trichlorophenol	0.351337	0.37682	0.09	7.3	20	107
34 1,1'-Biphenyl	2.251395	2.383545	0.2	5.9	20	106
38 Acenaphthylene	1.924105	2.32757	0.4	* 21	20	121
39 2,6-Dinitrotoluene	0.246579	0.243641	0.08	-1.2	20	99
42 Acenaphthene	1.557741	1.498172	0.2	-3.8	20	96
43 2,4-Dinitrophenol	0.162757	0.135431	0.01	-16.8	50	83
45 Dibenzofuran	2.005275	2.308282	0.3	15.1	20	115
46 2,4-Dinitrotoluene	0.260192	0.276338	0.07	6.2	20	106
92 1,2,4,5-Tetrachlorobenze	0.66404	0.725235	0.1	9.2	20	109
48 Fluorene	1.414643	1.613627	0.2	14.1	20	114
51 4,6-Dinitro-2-methylphen	0.049697	0.04445	0.01	-10.6	30	89
55 Hexachlorobenzene	0.232518	0.233821	0.05	0.6	20	101
56 Atrazine	0.201781	0.210466	0.01	4.3	25	104
57 Pentachlorophenol	0.058309	0.086308	0.01	48	50	148
59 Phenanthrene	1.089376	1.101206	0.2	1.1	20	101
60 Anthracene	1.058395	1.057023	0.2	-0.1	20	100
63 Fluoranthene	1.182254	1.167905	0.1	-1.2	20	99
64 Pyrene	1.096733	1.081062	0.4	-1.4	25	99
67 Benzo(a)anthracene	0.992967	0.989005	0.3	-0.4	20	100
68 3,3'-Dichlorobenzidine	0.252943	0.240994	0.01	-4.7	40	95
70 Chrysene	0.985606	0.959451	0.2	-2.7	20	97
73 Benzo(b)fluoranthene	1.20538	1.179501	0.01	-2.1	25	98
74 Benzo(k)fluoranthene	1.198365	1.184803	0.01	-1.1	25	99

Report Date: 06-Jan-2016 10:12:40 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4123115D.b\41231D02.D

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
75 Benzo(a)pyrene	1.103548	1.078204	0.01	-2.3	20	98
77 Indeno(1,2,3-cd)pyrene	1.242666	1.26497	0.01	1.8	25	102
78 Dibenzo(a,h)anthracene	1.081415	1.110893	0.01	2.7	25	103
79 Benzo(g,h,i)perylene	1.041399	1.066882	0.01	2.4	30	102
$ 93 bis-(2-Chloroethyl)ether	1.079628	1.099585	0.1	1.8	20	102
$ 96 2,4-Dichlorophenol-d3	0.230987	0.227146	0.06	-1.7	20	98
108 1,4-Dioxane	0.589117	0.637895	0.01	8.3	40	108
$ 109 1,4-Dioxane-d8	0.574046	0.645182	0.01	12.4	25	112

Report Date: 06-Jan-2016 10:12:40 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D02.D		
Lab Sample ID:	SSTD0.2PF	Client Sample ID:	SSTD0.2PF
Injection Date:	31-Dec-2015 12:27:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4123115D, SVMS 1702		
Method:	\\Organics\HH\chem\msd4.i\4123115D.b\SIM2544.m		
Method Date:	04-Jan-2016 17:23:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	CCV	ALS Bottle:	97
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	rbh	Review Date:	31-Dec-2015 12:57:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.744	3.744	0.000	47988	0.40000	0.44957	
108 1,4-Dioxane	88.0	3.770	3.770	0.000	47446	0.40000	0.43312	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.718	5.718	0.000	81786	0.40000	0.40739	
5 bis(2-Chloroethyl)Ether	93.0	5.753	5.753	0.000	102713	0.40000	0.40516	
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	74379	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.174	6.174	0.000	118540	0.40000	0.41984	
13 N-Nitroso-di-n-propylamine	70.0	6.278	6.278	0.000	72625	0.40000	0.50375	
15 Hexachloroethane	117.0	6.424	6.424	0.000	32696	0.40000	0.43685	
$ 16 Nitrobenzene-d5	128.0	6.445	6.445	0.000	36789	0.40000	0.38624	
17 Nitrobenzene	77.0	6.465	6.465	0.000	91865	0.40000	0.37809	
$ 96 2,4-Dichlorophenol-d3	165.0	6.917	6.917	0.000	79168	0.40000	0.39335	
* 23 Naphthalene-d8	136.0	7.048	7.048	0.000	348534	0.40000	0.40000	
24 Naphthalene	128.0	7.066	7.066	0.000	359641	0.40000	0.39786	
25 4-Chloroaniline	127.0	7.083	7.083	0.000	161398	0.40000	0.44810	
26 Hexachlorobutadiene	225.0	7.144	7.144	0.000	53526	0.40000	0.42003	
$ 115 2-Methylnapthalene-d10	152.0	7.604	7.604	0.000	194582	0.40000	0.40378	
29 2-Methylnaphthalene	142.0	7.636	7.636	0.000	214377	0.40000	0.40166	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.781	7.781	0.000	86704	0.40000	0.43686	
31 2,4,6-Trichlorophenol	196.0	7.865	7.865	0.000	45050	0.40000	0.42901	
34 1,1'-Biphenyl	154.0	8.010	8.010	0.000	284960	0.40000	0.42348	
39 2,6-Dinitrotoluene	165.0	8.301	8.301	0.000	29128	0.40000	0.39523	M
38 Acenaphthylene	152.0	8.409	8.409	0.000	278268	0.40000	0.48388	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	119553	0.40000	0.40000	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.548	8.548	0.000	179111	0.40000	0.38470	
43 2,4-Dinitrophenol	184.0	8.548	8.548	0.000	80956	2.0000	1.6642	
46 2,4-Dinitrotoluene	165.0	8.656	8.656	0.000	33037	0.40000	0.42482	
45 Dibenzofuran	168.0	8.703	8.703	0.000	275962	0.40000	0.46044	
48 Fluorene	166.0	8.996	8.996	0.000	192914	0.40000	0.45626	
51 4,6-Dinitro-2-methylphenol	198.0	9.012	9.012	0.000	12491	0.40000	0.35777	
55 Hexachlorobenzene	284.0	9.473	9.473	0.000	65706	0.40000	0.40224	
56 Atrazine	200.0	9.463	9.463	0.000	59143	0.40000	0.41722	
57 Pentachlorophenol	266.0	9.629	9.629	0.000	48507	0.80000	1.1842	
* 58 Phenanthrene-d10	188.0	9.796	9.796	0.000	281010	0.40000	0.40000	
59 Phenanthrene	178.0	9.817	9.817	0.000	309450	0.40000	0.40434	
60 Anthracene	178.0	9.859	9.859	0.000	297034	0.40000	0.39948	
$ 116 Flouranthene-d10	212.0	10.924	10.924	0.000	291523	0.40000	0.39344	
63 Fluoranthene	202.0	10.941	10.941	0.000	328193	0.40000	0.39515	
64 Pyrene	202.0	11.203	11.203	0.000	329580	0.40000	0.39428	
68 3,3'-Dichlorobenzidine	252.0	12.644	12.644	0.000	73471	0.40000	0.38110	
67 Benzo(a)anthracene	228.0	12.731	12.731	0.000	301515	0.40000	0.39840	
* 69 Chrysene-d12	240.0	12.748	12.748	0.000	304867	0.40000	0.40000	
70 Chrysene	228.0	12.783	12.783	0.000	292505	0.40000	0.38939	
73 Benzo(b)fluoranthene	252.0	14.407	14.407	0.000	298074	0.40000	0.39141	
74 Benzo(k)fluoranthene	252.0	14.447	14.447	0.000	299414	0.40000	0.39547	
75 Benzo(a)pyrene	252.0	14.974	14.974	0.000	272475	0.40000	0.39081	
* 76 Perylene-d12	264.0	15.073	15.073	0.000	252712	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.305	17.305	0.000	319673	0.40000	0.40718	
78 Dibenzo(a,h)anthracene	278.0	17.323	17.323	0.000	280736	0.40000	0.41090	
79 Benzo(g,h,i)perylene	276.0	17.986	17.986	0.000	269614	0.40000	0.40979	

QC Flag Legend

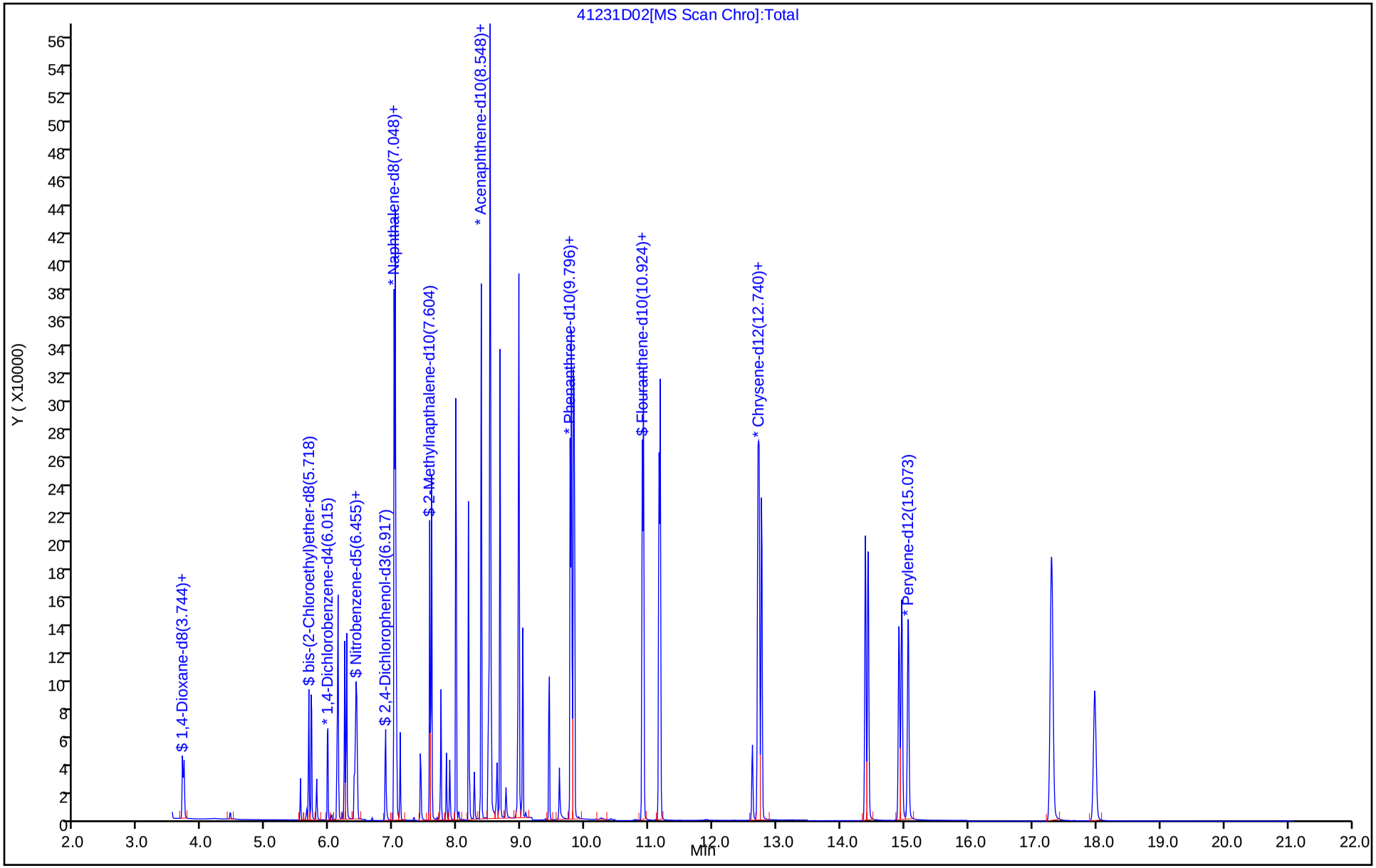
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 06-Jan-2016 10:12:40 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D02.D				
Injection Date:	31-Dec-2015 12:27:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.2PF	Lab ID:	SSTD0.2PF		
Sample Info:	4123115D, SVMS 1702				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 06-Jan-2016 10:12:40 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

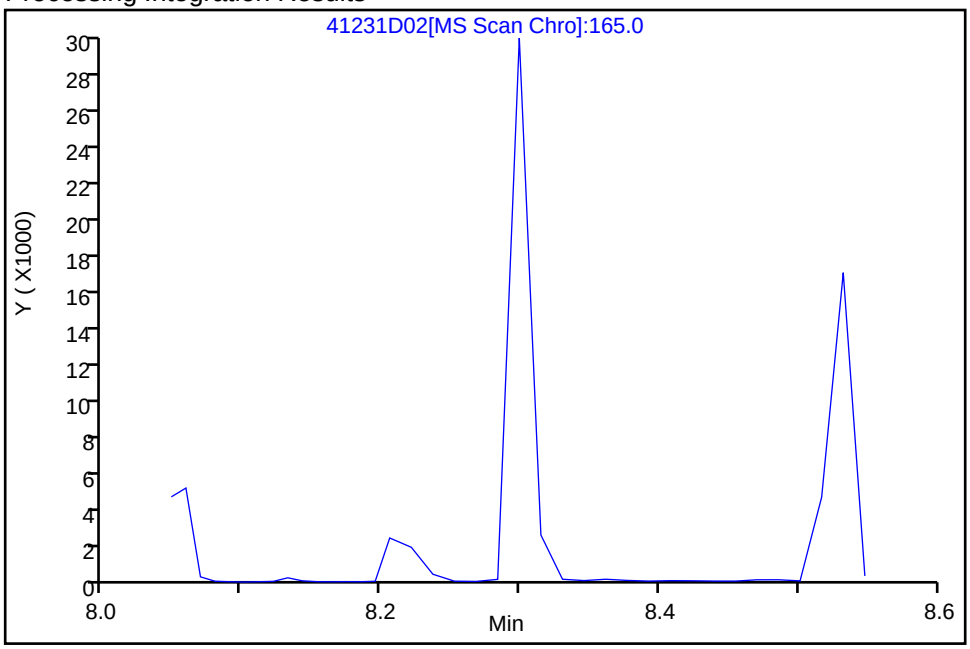
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D02.D		
Injection Date:	31-Dec-2015 12:27:30	Inst. ID:	msd4.i
Client ID:	SSTD0.2PF	Lab ID:	SSTD0.2PF
Sample Info:	4123115D, SVMS 1702		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

39 2,6-Dinitrotoluene, CAS: 606-20-2

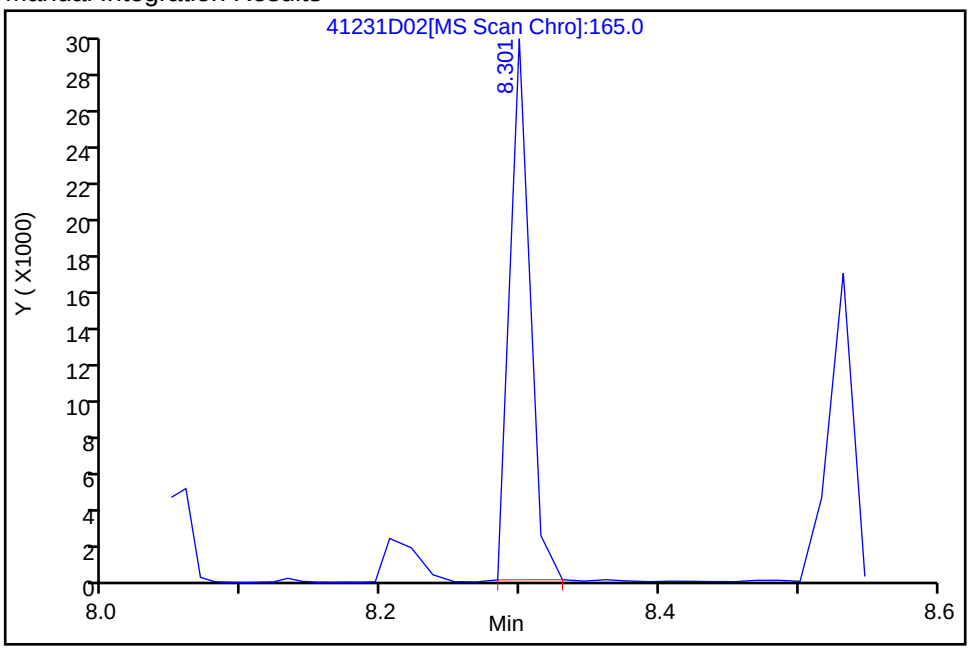
Not Detected
8.301

Processing Integration Results



Manual Integration Results

RT:	8.301
Area:	29128
Amount:	0.39523
Amount Units:	ng/ul



Data Editor: rbh, 31-Dec-2015 12:57:30
Audit Action: Mint
Audit Reason: MA

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/31/2015 Time: 1853

Lab File ID: 41231D16 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2PH Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
1,4-Dioxane	0.589	0.615	0.010	4.4	40.0
Naphthalene	1.037	1.011	0.200	-2.5	20.0
2-Methylnaphthalene	0.613	0.606	0.100	-1.0	20.0
Acenaphthylene	1.924	2.299	0.400	19.5	20.0
Acenaphthene	1.558	1.420	0.200	-8.9	20.0
Fluorene	1.415	1.620	0.200	14.6	20.0
Pentachlorophenol	0.058	0.084	0.010	43.5	50.0
Phenanthrene	1.089	1.064	0.200	-2.3	20.0
Anthracene	1.058	1.074	0.200	1.4	20.0
Fluoranthene	1.182	1.136	0.100	-3.9	20.0
Pyrene	1.097	1.065	0.400	-2.9	25.0
Benzo(a)anthracene	0.993	1.038	0.300	4.5	20.0
Chrysene	0.986	1.000	0.200	1.5	20.0
Benzo(b)fluoranthene	1.205	1.265	0.010	4.9	25.0
Benzo(k)fluoranthene	1.198	1.264	0.010	5.5	25.0
Benzo(a)pyrene	1.104	1.120	0.010	1.5	20.0
Indeno(1,2,3-cd)pyrene	1.243	0.973	0.010	-21.7	25.0
Dibenzo(a,h)anthracene	1.081	0.840	0.010	-22.3	25.0
Benzo(g,h,i)perylene	1.041	0.766	0.010	-26.5	30.0
Dibenzofuran	2.005	2.174	0.300	8.4	20.0
Hexachlorobenzene	0.233	0.236	0.050	1.5	20.0
Hexachlorobutadiene	0.146	0.156	0.040	6.6	20.0
bis(2-Chloroethyl)ether	1.363	1.328	0.100	-2.6	20.0
2,2'-Oxybis(1-chloropropane)	1.518	1.489	0.010	-1.9	25.0
N-Nitrosodi-n-propylamine	0.775	0.994	0.080	28.2	50.0
Hexachloroethane	0.403	0.461	0.100	14.5	20.0
Nitrobenzene	0.279	0.277	0.090	-0.5	20.0
4-Chloroaniline	0.413	0.421	0.010	1.8	40.0
2,4,6-Trichlorophenol	0.351	0.402	0.090	14.4	20.0
1,1'-Biphenyl	2.251	2.264	0.200	0.6	20.0
2,6-Dinitrotoluene	0.247	0.275	0.080	11.7	50.0
2,4-Dinitrophenol	0.163	0.144	0.010	-11.6	50.0
2,4-Dinitrotoluene	0.260	0.341	0.070	31.2	50.0
4,6-Dinitro-2-methylphenol	0.050	0.053	0.010	7.2	30.0
1,2,4,5-Tetrachlorobenzene	0.664	0.713	0.100	7.4	20.0
Atrazine	0.202	0.207	0.010	2.5	25.0

FORM 7A-OR
CONTINUING CALIBRATION DATA FOR GC/MS

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: Low

Instrument ID: Agilent MSD4 Calibration Date: 12/31/2015 Time: 1853

Lab File ID: 41231D16 Init. Calib. Date(s): 12/18/2015 12/18/2015

EPA Sample No.: SSTD0.2PH Init. Calib. Time(s): 1425 1636

GC Column: Zebron ZB-SV ID: 0.25 (mm) Length: 30 (m)

Heated Purge: (Y/N) Purge Volume: (mL)

COMPOUND	$\overline{RRF}$	RRF 0.2	MIN RRF	%D	MAX %D
3,3'-Dichlorobenzidine	0.253	0.205	0.010	-18.9	40.0
1,4-Dioxane-d8	0.574	0.631	0.010	9.9	25.0
Bis(2-Chloroethyl)ether-d8	1.080	1.041	0.100	-3.6	20.0
Nitrobenzene-d5	0.109	0.121	0.050	10.9	20.0
2,4-Dichlorophenol-d3	0.231	0.243	0.060	5.3	20.0
Fluoranthene-d10	1.055	1.040	0.010	-1.3	25.0
2-Methylnaphthalene-d10	0.553	0.555	0.010	0.4	25.0

Shealy Environmental Services
Continuing Calibration Verification Report

Data File: \\Organics\HH\chem\msd4.i\4123115D.b\41231D16.D
Lab Sample ID: SSTD0.2PH Client Sample ID: SSTD0.2PH
Injection Date: 31-Dec-2015 18:53:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd4.i
Sample Info: 4123115D, SVMS 1702
Method: \\Organics\HH\chem\msd4.i\4123115D.b\Sim2544-end.m
Method Date: 04-Jan-2016 17:24:30 Quant Method: ISTD
Calib Date: 18-Dec-2015 16:36:30 Calib File: 41218B07.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
$ 115 2-Methylnapthalene-d10	0.55306	0.55518	0.01	0.4	25	100
$ 116 Flouranthene-d10	1.054701	1.040489	0.01	-1.3	25	99
5 bis(2-Chloroethyl)Ether	1.363344	1.327679	0.1	-2.6	20	97
11 2,2'-oxybis(1-Chloroprop	1.518411	1.489484	0.01	-1.9	25	98
13 N-Nitroso-di-n-propylami	0.775314	0.99389	0.08	28.2	50	128
15 Hexachloroethane	0.402506	0.460795	0.1	14.5	20	114
$ 16 Nitrobenzene-d5	0.109315	0.121266	0.05	10.9	20	111
17 Nitrobenzene	0.27885	0.277323	0.09	-0.5	20	99
24 Naphthalene	1.037407	1.011061	0.2	-2.5	20	97
25 4-Chloroaniline	0.41337	0.420822	0.01	1.8	40	102
26 Hexachlorobutadiene	0.146252	0.15592	0.04	6.6	20	107
29 2-Methylnaphthalene	0.612539	0.606173	0.1	-1	20	99
31 2,4,6-Trichlorophenol	0.351337	0.401793	0.09	14.4	20	114
34 1,1'-Biphenyl	2.251395	2.264043	0.2	0.6	20	101
38 Acenaphthylene	1.924105	2.299036	0.4	19.5	20	119
39 2,6-Dinitrotoluene	0.246579	0.275482	0.08	11.7	50	112
42 Acenaphthene	1.557741	1.419542	0.2	-8.9	20	91
43 2,4-Dinitrophenol	0.162757	0.143915	0.01	-11.6	50	88
45 Dibenzofuran	2.005275	2.174039	0.3	8.4	20	108
46 2,4-Dinitrotoluene	0.260192	0.34132	0.07	31.2	50	131
92 1,2,4,5-Tetrachlorobenze	0.66404	0.713249	0.1	7.4	20	107
48 Fluorene	1.414643	1.620474	0.2	14.6	20	115
51 4,6-Dinitro-2-methylphen	0.049697	0.05327	0.01	7.2	30	107
55 Hexachlorobenzene	0.232518	0.236065	0.05	1.5	20	102
56 Atrazine	0.201781	0.206913	0.01	2.5	25	103
57 Pentachlorophenol	0.058309	0.083699	0.01	43.5	50	144
59 Phenanthrene	1.089376	1.064082	0.2	-2.3	20	98
60 Anthracene	1.058395	1.073618	0.2	1.4	20	101
63 Fluoranthene	1.182254	1.13578	0.1	-3.9	20	96
64 Pyrene	1.096733	1.064825	0.4	-2.9	25	97
67 Benzo(a)anthracene	0.992967	1.037597	0.3	4.5	20	104
68 3,3'-Dichlorobenzidine	0.252943	0.20518	0.01	-18.9	40	81
70 Chrysene	0.985606	1.000483	0.2	1.5	20	102
73 Benzo(b)fluoranthene	1.20538	1.264625	0.01	4.9	25	105
74 Benzo(k)fluoranthene	1.198365	1.264355	0.01	5.5	25	106

Compound	Standard RRF	Ccal RF	Min. RRF	%D	Max. %D	%Rec
75 Benzo(a)pyrene	1.103548	1.120143	0.01	1.5	20	102
77 Indeno(1,2,3-cd)pyrene	1.242666	0.973009	0.01	-21.7	25	78
78 Dibenzo(a,h)anthracene	1.081415	0.840056	0.01	-22.3	25	78
79 Benzo(g,h,i)perylene	1.041399	0.765553	0.01	-26.5	30	74
$ 93 bis-(2-Chloroethyl)ether	1.079628	1.040549	0.1	-3.6	20	96
$ 96 2,4-Dichlorophenol-d3	0.230987	0.243336	0.06	5.3	20	105
108 1,4-Dioxane	0.589117	0.614943	0.01	4.4	40	104
$ 109 1,4-Dioxane-d8	0.574046	0.630947	0.01	9.9	25	110

Report Date: 06-Jan-2016 10:12:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services
Target Compound Quantitation Report

Data File: \\Organics\HH\chem\msd4.i\4123115D.b\41231D16.D
Lab Sample ID: SSTD0.2PH Client Sample ID: SSTD0.2PH
Injection Date: 31-Dec-2015 18:53:30 Dil. Factor: 1.0
Operator: RBH Inst. ID: msd4.i
Sample Info: 4123115D, SVMS 1702
Method: \\Organics\HH\chem\msd4.i\4123115D.b\Sim2544-end.m
Method Date: 04-Jan-2016 17:24:30 Quant Method: ISTD
Calib Date: 18-Dec-2015 16:36:30 Calib File: 41218B07.D
Sample Type: CCV ALS Bottle: 97
Cpnd Sublist: std.sub
Sample Matrix: Water Matrix Level: Low
Target 4.14 Integrator: falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo/Vi * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Vi	2.0000	Injection Volume (uL)
Vi	2.0000	Injection Volume (uL)
Cpnd Variable		Local Cpnd Variable

Column1: Zebron ZB-SV (0.25 mm) Detector: MS Scan
Data Reviewer: rbh Review Date: 04-Jan-2016 08:11:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
$ 109 1,4-Dioxane-d8	96.0	3.744	3.744	0.000	42028	0.40000	0.43965	
108 1,4-Dioxane	88.0	3.770	3.770	0.000	40962	0.40000	0.41754	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.718	5.718	0.000	69312	0.40000	0.38552	
5 bis(2-Chloroethyl)Ether	93.0	5.753	5.753	0.000	88438	0.40000	0.38954	
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	66611	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0	6.175	6.175	0.000	99216	0.40000	0.39238	
13 N-Nitroso-di-n-propylamine	70.0	6.280	6.280	0.000	66204	0.40000	0.51277	
15 Hexachloroethane	117.0	6.425	6.425	0.000	30694	0.40000	0.45793	
$ 16 Nitrobenzene-d5	128.0	6.446	6.446	0.000	38328	0.40000	0.44373	
17 Nitrobenzene	77.0	6.457	6.457	0.000	87652	0.40000	0.39781	
$ 96 2,4-Dichlorophenol-d3	165.0	6.917	6.917	0.000	76910	0.40000	0.42138	
* 23 Naphthalene-d8	136.0	7.048	7.048	0.000	316065	0.40000	0.40000	
24 Naphthalene	128.0	7.066	7.066	0.000	319561	0.40000	0.38984	
25 4-Chloroaniline	127.0	7.066	7.066	0.000	133007	0.40000	0.40721	
26 Hexachlorobutadiene	225.0	7.144	7.144	0.000	49281	0.40000	0.42644	
$ 115 2-Methylnapthalene-d10	152.0	7.604	7.604	0.000	175473	0.40000	0.40153	
29 2-Methylnaphthalene	142.0	7.636	7.636	0.000	191590	0.40000	0.39584	
92 1,2,4,5-Tetrachlorobenzene	216.0	7.781	7.781	0.000	79247	0.40000	0.42964	
31 2,4,6-Trichlorophenol	196.0	7.865	7.865	0.000	44642	0.40000	0.45744	
34 1,1'-Biphenyl	154.0	8.011	8.011	0.000	251551	0.40000	0.40225	
39 2,6-Dinitrotoluene	165.0	8.301	8.301	0.000	30608	0.40000	0.44689	M
38 Acenaphthylene	152.0	8.409	8.409	0.000	255439	0.40000	0.47794	
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	111107	0.40000	0.40000	

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
42 Acenaphthene	153.0	8.548	8.548	0.000	157721	0.40000	0.36451	
43 2,4-Dinitrophenol	184.0	8.564	8.564	0.000	79950	2.0000	1.7685	
46 2,4-Dinitrotoluene	165.0	8.656	8.656	0.000	37923	0.40000	0.52472	
45 Dibenzofuran	168.0	8.703	8.703	0.000	241551	0.40000	0.43366	
48 Fluorene	166.0	8.996	8.996	0.000	180046	0.40000	0.45820	
51 4,6-Dinitro-2-methylphenol	198.0	9.012	9.012	0.000	13396	0.40000	0.42876	
55 Hexachlorobenzene	284.0	9.473	9.473	0.000	59364	0.40000	0.40610	
56 Atrazine	200.0	9.473	9.473	0.000	52033	0.40000	0.41017	
57 Pentachlorophenol	266.0	9.630	9.630	0.000	42096	0.80000	1.1484	
* 58 Phenanthrene-d10	188.0	9.796	9.796	0.000	251473	0.40000	0.40000	
59 Phenanthrene	178.0	9.817	9.817	0.000	267588	0.40000	0.39071	
60 Anthracene	178.0	9.859	9.859	0.000	269986	0.40000	0.40575	
$ 116 Flouranthene-d10	212.0	10.924	10.924	0.000	261655	0.40000	0.39461	
63 Fluoranthene	202.0	10.941	10.941	0.000	285618	0.40000	0.38428	
64 Pyrene	202.0	11.203	11.203	0.000	289082	0.40000	0.38836	
68 3,3'-Dichlorobenzidine	252.0	12.644	12.644	0.000	55703	0.40000	0.32447	
67 Benzo(a)anthracene	228.0	12.731	12.731	0.000	281690	0.40000	0.41798	
* 69 Chrysene-d12	240.0	12.748	12.748	0.000	271483	0.40000	0.40000	
70 Chrysene	228.0	12.792	12.792	0.000	271614	0.40000	0.40604	
73 Benzo(b)fluoranthene	252.0	14.407	14.407	0.000	247993	0.40000	0.41966	
74 Benzo(k)fluoranthene	252.0	14.451	14.451	0.000	247940	0.40000	0.42203	
75 Benzo(a)pyrene	252.0	14.977	14.977	0.000	219660	0.40000	0.40601	
* 76 Perylene-d12	264.0	15.077	15.077	0.000	196100	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0	17.316	17.316	0.000	190807	0.40000	0.31320	
78 Dibenzo(a,h)anthracene	278.0	17.331	17.331	0.000	164735	0.40000	0.31072	
79 Benzo(g,h,i)perylene	276.0	17.997	17.997	0.000	150125	0.40000	0.29405	

QC Flag Legend

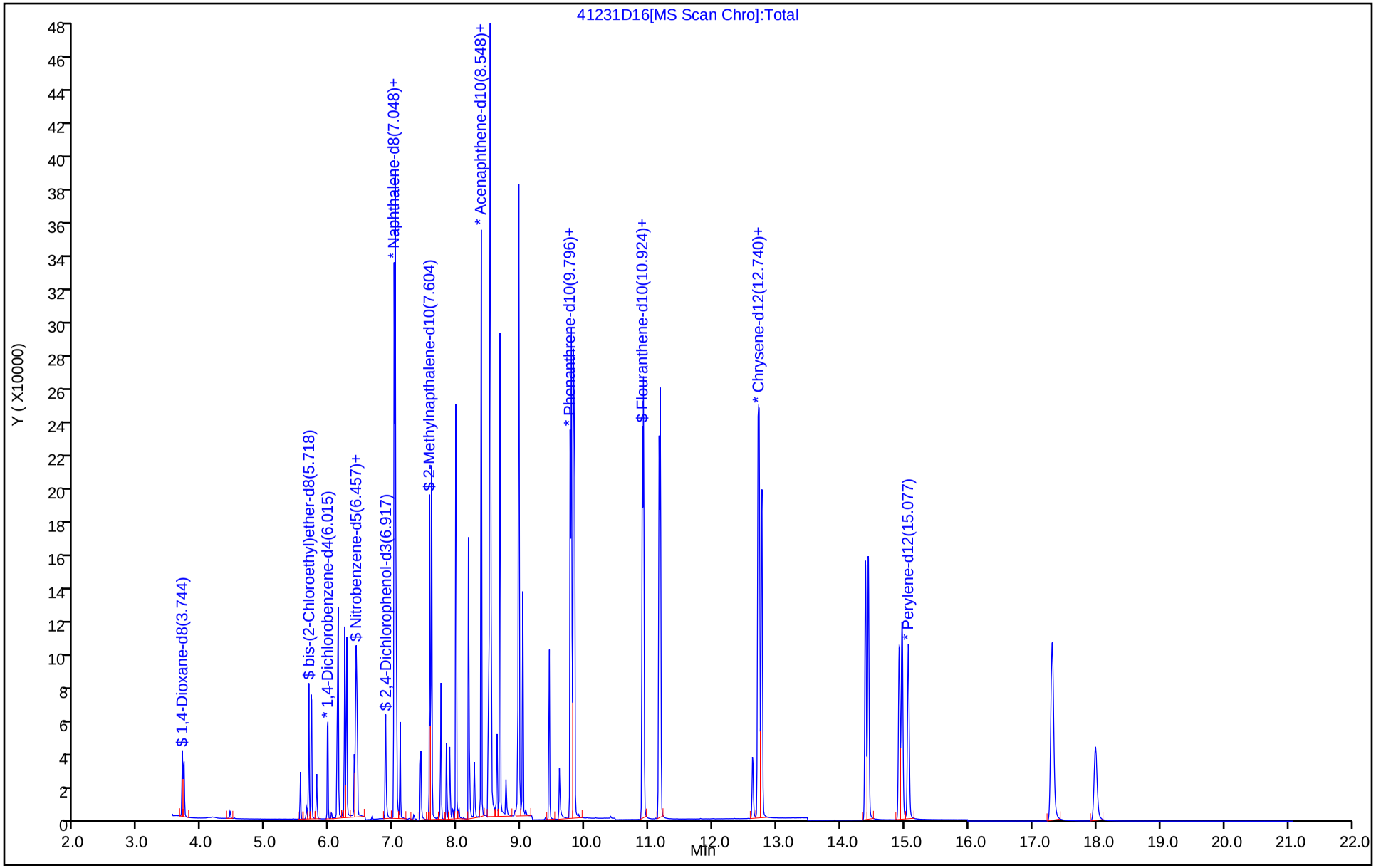
Review Flags

M - Compound Hit/Peak Manually Integrated

Report Date: 06-Jan-2016 10:12:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D16.D				
Injection Date:	31-Dec-2015 18:53:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SSTD0.2PH	Lab ID:	SSTD0.2PH		
Sample Info:	4123115D, SVMS 1702				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 06-Jan-2016 10:12:46 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

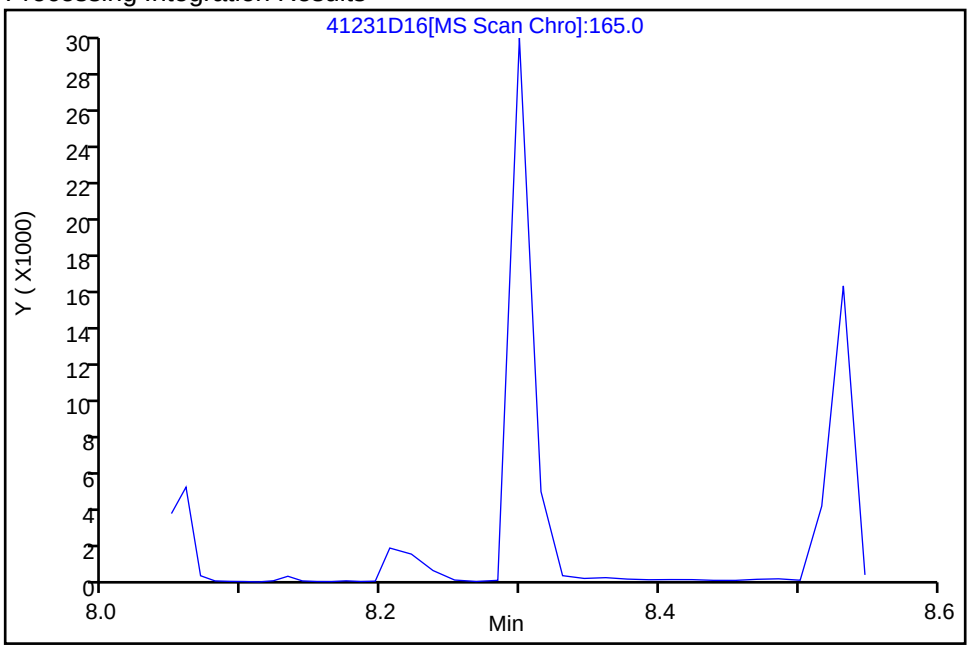
Manual Integration Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D16.D		
Injection Date:	31-Dec-2015 18:53:30	Inst. ID:	msd4.i
Client ID:	SSTD0.2PH	Lab ID:	SSTD0.2PH
Sample Info:	4123115D, SVMS 1702		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

39 2,6-Dinitrotoluene, CAS: 606-20-2

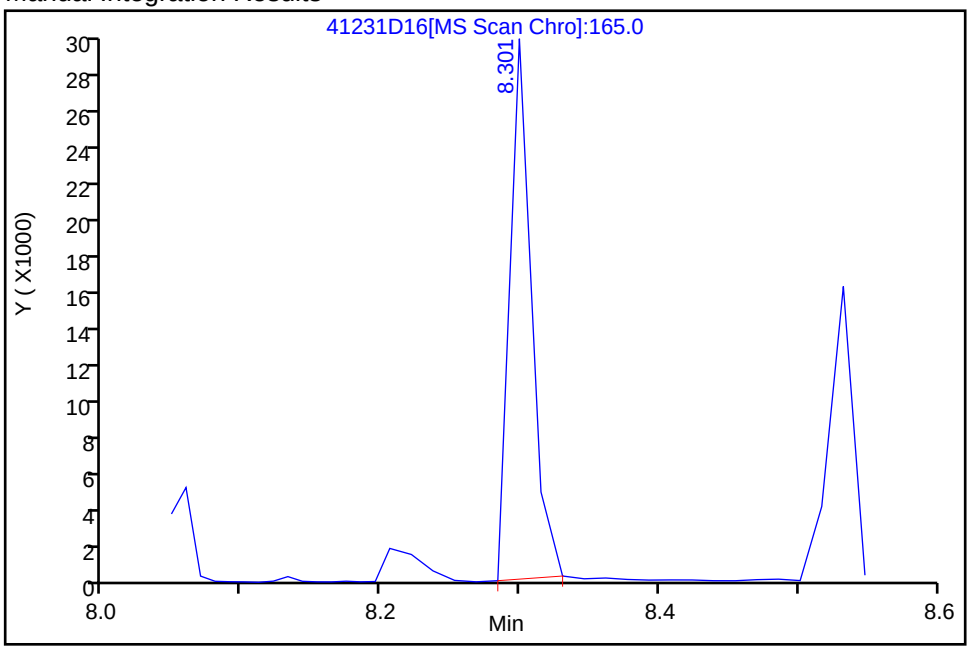
Not Detected
8.301

Processing Integration Results



Manual Integration Results

RT:	8.301
Area:	30608
Amount:	0.44689
Amount Units:	ng/ul



Data Editor: rbh, 04-Jan-2016 08:11:30
Audit Action: Mint
Audit Reason: MA

SEMIVOLATILE-sim
RAW QC DATA

DFTPP Data

Blank Data

Matrix Spike / Matrix Spike Duplicate-optional

Laboratory Control Sample Data-optional

DFTPP Data

DFTPPs are arranged in chronological order by instrument

-Reconstructed Total Ion Chromatogram

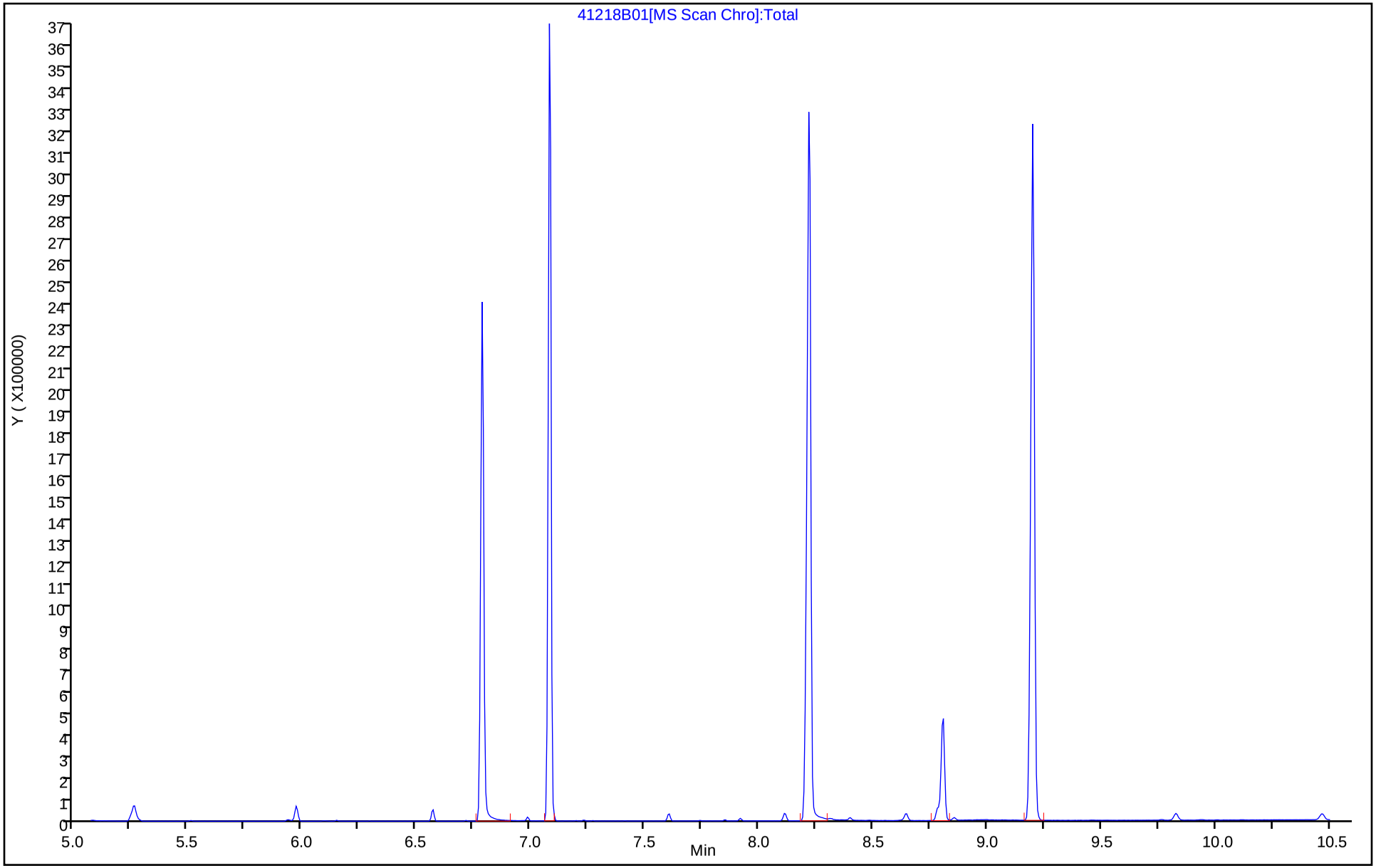
-Bar Graph Spectrum & Tabulated Relative Abundances

-Mass Listing

Report Date: 29-Dec-2015 17:40:54 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

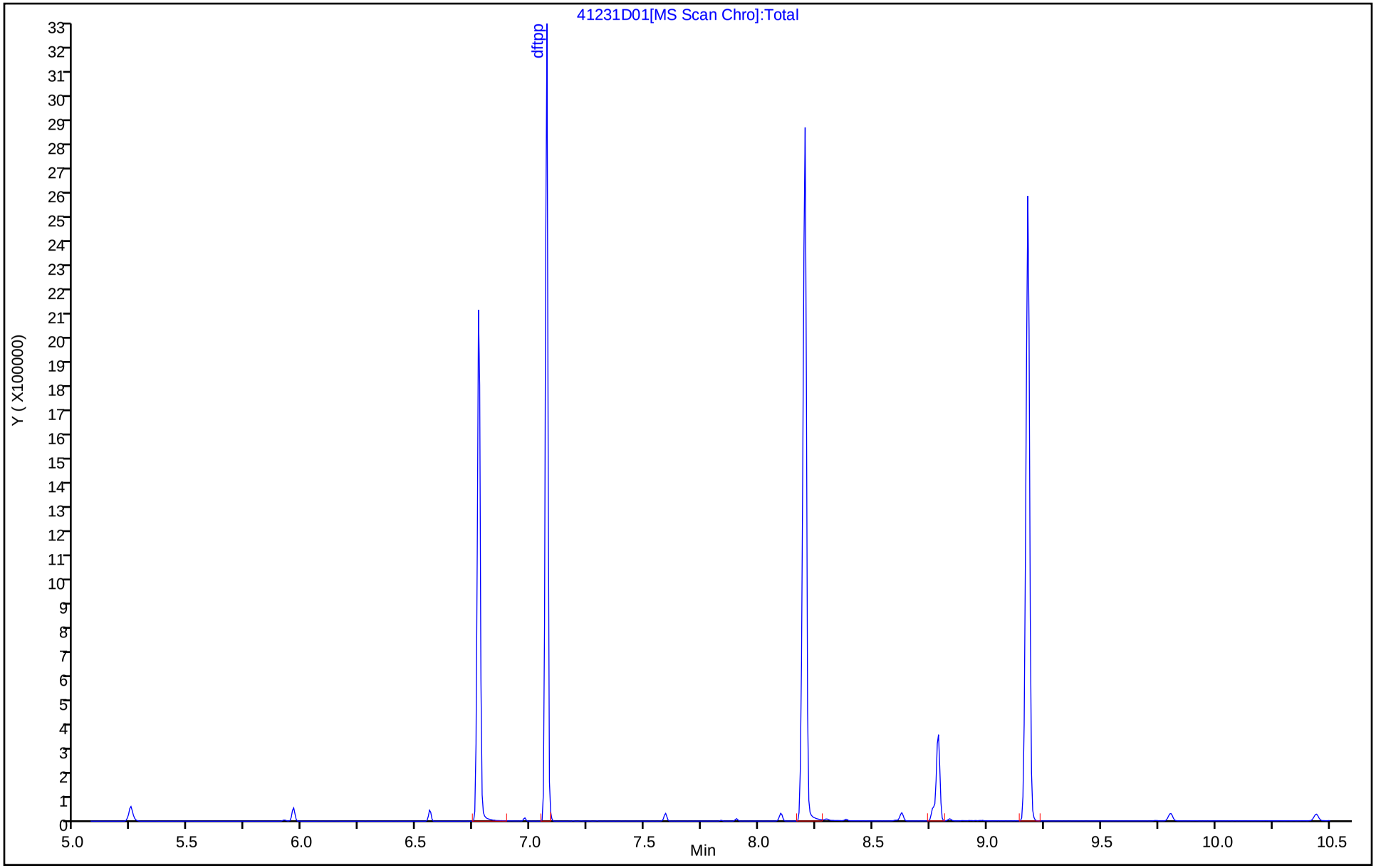
Data File:	\\Organics\HH\chem\msd4.i\4121815B.b\41218B01.D				
Injection Date:	18-Dec-2015 14:10:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	DFTPPOM	Lab ID:	SVMS 1608		
Sample Info:	4121815B, SVMS 1608				
Injection Vol.	2.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



Report Date: 06-Jan-2016 10:12:39 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D01.D				
Injection Date:	31-Dec-2015 12:11:30	Inst. ID:	msd4.i	Operator:	JCG
Client ID:	DFTPPPE	Lab ID:	SVMS 1608		
Sample Info:	4123115D, SVMS 1608				
Injection Vol.	1.00	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		



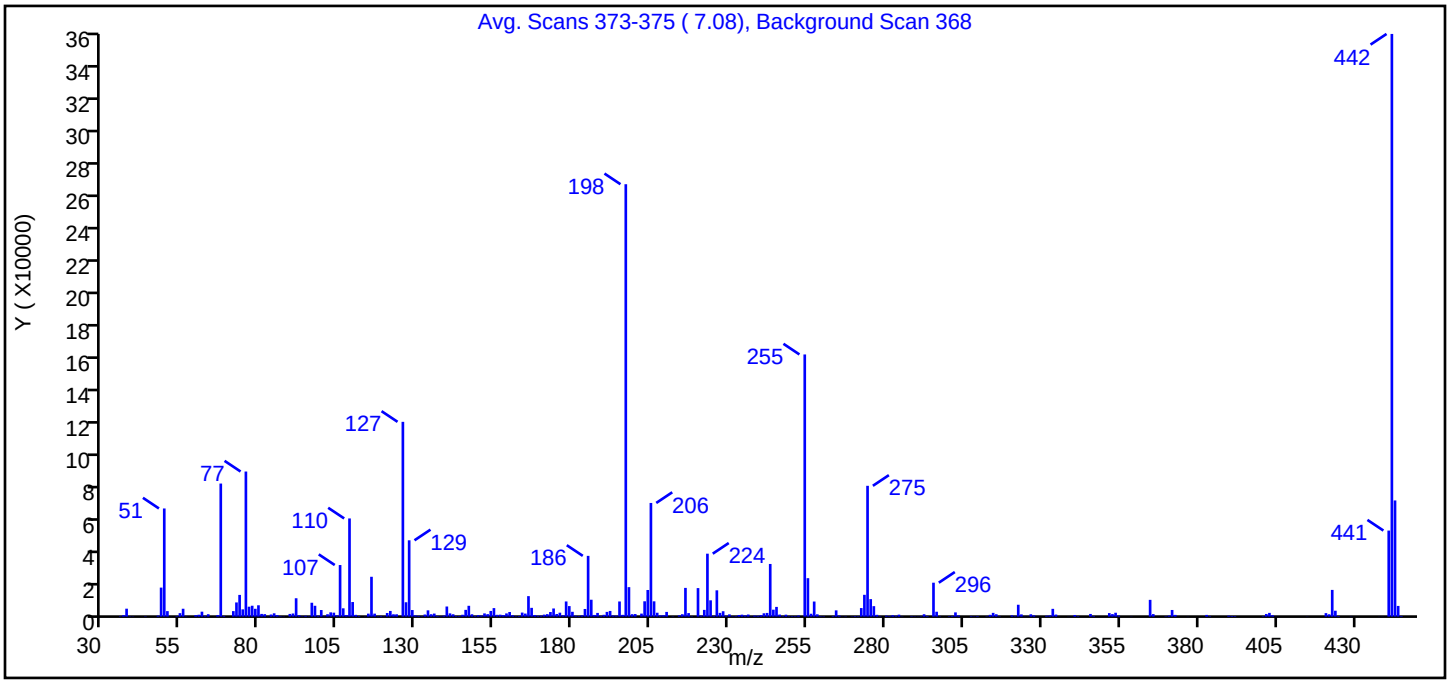
Report Date: 06-Jan-2016 10:12:39 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

MS Tune Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D01.D		
Injection Date:	31-Dec-2015 12:11:30	Inst. ID:	msd4.i
Client ID:	DFTPPPE	Lab ID:	SVMS 1608
Sample Info:	4123115D, SVMS 1608		
Injection Vol.	1.00	Dil. Factor:	1.0
Operator:	JCG		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

1 dftpp



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.0
51	10.00 - 80.00% of mass 198	25.0
68	Less than 2.00% of mass 69	0.4 (1.1)
69	Present	30.8
70	Less than 2.00% of mass 69	0.1 (0.5)
127	10.00 - 80.00% of mass 198	45.0
197	Less than 2.00% of mass 198	0.4
199	5.00 - 9.00% of mass 198	6.8
275	10.00 - 60.00% of mass 198	30.2
365	Greater than 1.00% of mass 198	3.9
441	0.01 - 99.99% of mass 443	19.9 (74.1)
442	Greater than 50.00% of mass 198	134.8
443	15.00 - 24.00% of mass 442	26.9 (19.9)

Data File: \\Organics\HH\chem\msd4.i\4123115D.b\41231D01.D
Injection Date: 31-Dec-2015 12:11:30
Spectrum: Avg. Scans 373-375 (7.08), Background Scan 368
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 306

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	251	127.00	117448	205.00	16048	292.00	208
38.00	876	128.00	8654	206.00	68536	293.00	1424
39.00	4774	129.00	46008	207.00	9212	294.00	392
40.00	189	130.00	3972	208.00	2336	296.00	20448
41.00	134	131.00	767	209.00	737	297.00	2936
44.00	13	132.00	463	210.00	850	298.00	209
45.00	188	133.00	230	211.00	2829	301.00	251
49.00	589	134.00	1258	213.00	166	302.00	423
50.00	17488	135.00	3777	215.00	732	303.00	2541
51.00	65208	136.00	1439	216.00	1426	304.00	658
52.00	3303	137.00	1836	217.00	17312	308.00	299
53.00	56	138.00	405	218.00	2118	309.00	150
55.00	315	139.00	219	219.00	212	310.00	305
56.00	2082	140.00	600	221.00	17192	313.00	205
57.00	4739	141.00	6089	222.00	582	314.00	1060
58.00	175	142.00	1953	223.00	4048	315.00	2255
59.00	64	143.00	1415	224.00	37944	316.00	1419
61.00	881	144.00	369	225.00	9822	317.00	226
62.00	1125	145.00	342	226.00	405	321.00	762
63.00	2970	146.00	1111	227.00	15852	322.00	250
64.00	426	147.00	4065	228.00	2246	323.00	7148
65.00	1434	148.00	6519	229.00	3237	324.00	1338
67.00	53	149.00	1405	230.00	438	325.00	122
68.00	922	150.00	402	231.00	1340	326.00	111
69.00	80232	151.00	892	232.00	210	327.00	1401
70.00	390	152.00	574	233.00	306	328.00	724
73.00	3312	153.00	1930	234.00	968	329.00	54
74.00	8541	154.00	1484	235.00	1166	332.00	533
75.00	13086	155.00	3411	236.00	756	333.00	704
76.00	4367	156.00	5124	237.00	1249	334.00	4682
77.00	87488	157.00	1075	238.00	147	335.00	1225
78.00	5972	158.00	1153	239.00	627	336.00	63
79.00	6557	159.00	915	240.00	490	339.00	67

Report Date: 06-Jan-2016 10:12:39 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4123115D.b\41231D01.D
Injection Date: 31-Dec-2015 12:11:30
Spectrum: Avg. Scans 373-375 (7.08), Background Scan 368
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 306

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	4715	160.00	1924	241.00	897	340.00	59
81.00	6824	161.00	2766	242.00	2001	341.00	970
82.00	1621	162.00	801	243.00	2213	342.00	268
83.00	1481	163.00	237	244.00	31744	346.00	1601
84.00	125	164.00	369	245.00	4172	347.00	312
85.00	1256	165.00	2425	246.00	5852	352.00	2125
86.00	1988	166.00	1825	247.00	1227	353.00	1507
87.00	893	167.00	12343	248.00	290	354.00	2333
88.00	269	168.00	5282	249.00	1158	355.00	609
89.00	136	169.00	970	250.00	251	359.00	81
91.00	1613	170.00	518	251.00	294	365.00	10103
92.00	1872	171.00	566	252.00	293	366.00	1509
93.00	11069	172.00	1191	253.00	631	370.00	222
94.00	818	173.00	1485	255.00	158080	371.00	592
95.00	203	174.00	2762	256.00	23176	372.00	3995
96.00	506	175.00	4901	257.00	1729	373.00	1032
97.00	200	176.00	1559	258.00	9091	374.00	52
98.00	8355	177.00	2361	259.00	1380	377.00	55
99.00	6528	178.00	769	260.00	282	383.00	1028
100.00	553	179.00	9132	261.00	217	384.00	294
101.00	3970	180.00	6340	264.00	390	390.00	547
102.00	198	181.00	2900	265.00	3766	391.00	369
103.00	1432	182.00	523	266.00	595	392.00	307
104.00	2568	183.00	336	267.00	74	401.00	266
105.00	2371	184.00	767	268.00	172	402.00	1587
106.00	806	185.00	4602	270.00	152	403.00	2245
107.00	31096	186.00	36624	271.00	340	404.00	808
108.00	4996	187.00	10173	272.00	255	405.00	56
109.00	976	188.00	998	273.00	5151	415.00	76
110.00	59192	189.00	2225	274.00	13145	421.00	2102
111.00	8784	190.00	408	275.00	78872	422.00	1398
112.00	1063	191.00	1086	276.00	10543	423.00	16097
113.00	344	192.00	2839	277.00	6299	424.00	3542
115.00	114	193.00	3409	278.00	1074	425.00	336

Report Date: 06-Jan-2016 10:12:39 AIM Revision: 1.0 26-May-2015 13:41:26
Data File: \\Organics\HH\chem\msd4.i\4123115D.b\41231D01.D
Injection Date: 31-Dec-2015 12:11:30
Spectrum: Avg. Scans 373-375 (7.08), Background Scan 368
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 306

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	1783	194.00	673	279.00	227	429.00	101
117.00	24016	195.00	500	281.00	582	438.00	53
118.00	1793	196.00	9127	282.00	317	439.00	66
119.00	240	197.00	1052	283.00	837	441.00	51880
120.00	421	198.00	260736	284.00	489	442.00	351360
121.00	156	199.00	17760	285.00	1168	443.00	70048
122.00	2163	200.00	1450	286.00	134	444.00	6437
123.00	3408	201.00	1541	289.00	251	445.00	382
124.00	1402	203.00	1812	290.00	148		
125.00	1399	204.00	9234	291.00	115		

Blank Data

Blanks are arranged by type of blank
(Method, Storage, Instrument)

Listed in Chronological Order by instrument.

MS / MSD Data

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK45

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QQ92745-001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 41231D07

% Solids: Date Received:

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
123-91-1	1,4-Dioxane	0.15	
91-20-3	Naphthalene	0.050	U
91-57-6	2-Methylnaphthalene	0.050	U
208-96-8	Acenaphthylene	0.050	U
83-32-9	Acenaphthene	0.050	U
86-73-7	Fluorene	0.050	U
87-86-5	Pentachlorophenol	0.20	U
85-01-8	Phenanthrene	0.050	U
120-12-7	Anthracene	0.050	U
206-44-0	Fluoranthene	0.050	U
129-00-0	Pyrene	0.050	U
56-55-3	Benzo(a)anthracene	0.050	U
218-01-9	Chrysene	0.050	U
205-99-2	Benzo(b)fluoranthene	0.050	U
207-08-9	Benzo(k)fluoranthene	0.050	U
50-32-8	Benzo(a)pyrene	0.050	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.050	U
53-70-3	Dibenzo(a,h)anthracene	0.050	U
191-24-2	Benzo(g,h,i)perylene	0.050	U
132-64-9	Dibenzofuran	0.050	U
118-74-1	Hexachlorobenzene	0.050	U
87-68-3	Hexachlorobutadiene	0.10	U
111-44-4	bis(2-Chloroethyl)ether	0.10	U
108-60-1	2,2'-Oxybis(1-chloropropane)	0.10	U
621-64-7	N-Nitrosodi-n-propylamine	0.050	U
67-72-1	Hexachloroethane	0.10	U
98-95-3	Nitrobenzene	0.10	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
SBLK45

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-14035

Lab Code: EQI Case No.: 45671 MA No.: 2544.1 SDG No.: F6R29

Analytical Method: SVOA SIM Level: LOW

Matrix: Water Lab Sample ID: QQ92745-001

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 41231D07

% Solids: Date Received:

GC Column: Zebron ZB-SV ID: 0.25 (mm) Date Extracted: 12/21/2015

GC Column: ID: (mm) Date Analyzed: 12/31/2015

Extract Concentrated: (Y/N) Extract Volume: 1000 (uL)

Soil Aliquot (VOA): (uL) Extraction Type: CLLE

Heated Purge: (Y/N) Injection Volume: 1.0 (uL)

Purge Volume: (mL) pH: Dilution Factor: 1.0

Cleanup Types: Cleanup Factor:

Concentration Units (ug/L, mg/L, ug/Kg): ug/L

CAS NO.	COMPOUND	CONCENTRATION	Q
106-47-8	4-Chloroaniline	0.10	U
88-06-2	2,4,6-Trichlorophenol	0.10	U
92-52-4	1,1'-Biphenyl	0.050	U
606-20-2	2,6-Dinitrotoluene	0.050	U
51-28-5	2,4-Dinitrophenol	1.0	U
121-14-2	2,4-Dinitrotoluene	0.050	U
534-52-1	4,6-Dinitro-2-methylphenol	0.10	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.10	U
1912-24-9	Atrazine	0.10	U
91-94-1	3,3'-Dichlorobenzidine	0.10	U

Shealy Environmental Services
Target Compound Quantitation Report

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D07.D		
Lab Sample ID:	QQ92745-001	Client Sample ID:	SBLK45
Injection Date:	31-Dec-2015 14:53:30	Dil. Factor:	1.0
Operator:	RBH	Inst. ID:	msd4.i
Sample Info:	4123115D, QQ92745-001		
Method:	\\Organics\HH\chem\msd4.i\4123115D.b\Sim2544.m		
Method Date:	04-Jan-2016 17:23:30	Quant Method:	ISTD
Calib Date:	18-Dec-2015 16:36:30	Calib File:	41218B07.D
Sample Type:	BLANK	ALS Bottle:	9
Cpnd Sublist:	std.sub		
Sample Matrix:	Water	Matrix Level:	Low
Target 4.14		Integrator:	falcon

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.0000	Dilution Factor
Uf	1.0000	ng unit correction factor
Vt	1000.00	Volume of final extract (uL)
Vo	1000.00	Volume of sample extracted (mL)
Cpnd Variable		Local Cpnd Variable

Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan
Data Reviewer:	jcg	Review Date:	04-Jan-2016 17:19:30

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
$ 109 1,4-Dioxane-d8	96.0	3.753	3.744	0.009	23637	0.20434	0.20434	R
108 1,4-Dioxane	88.0	3.779	3.770	0.009	18103	0.15250	0.15250	
$ 93 bis-(2-Chloroethyl)ether-d8	67.0	5.718	5.718	0.000	17217	0.07914	0.07914	e
5 bis(2-Chloroethyl)Ether	93.0		5.753		ND			
* 8 1,4-Dichlorobenzene-d4	152.0	6.015	6.015	0.000	80602	0.40000	0.40000	
11 2,2'-oxybis(1-Chloropropane)	45.0		6.174		ND			
13 N-Nitroso-di-n-propylamine	70.0		6.278		ND			
15 Hexachloroethane	117.0		6.424		ND			
$ 16 Nitrobenzene-d5	128.0	6.446	6.445	0.001	6117	0.05951	0.05951	e
17 Nitrobenzene	77.0		6.465		ND			
$ 96 2,4-Dichlorophenol-d3	165.0	6.908	6.917	-0.009	25591	0.11783	0.11783	
* 23 Naphthalene-d8	136.0	7.048	7.048	0.000	376093	0.40000	0.40000	
24 Naphthalene	128.0		7.066		ND			
25 4-Chloroaniline	127.0		7.083		ND			
26 Hexachlorobutadiene	225.0		7.144		ND			
$ 115 2-Methylnapthalene-d10	152.0	7.604	7.604	0.000	35780	0.06881	0.06881	
29 2-Methylnaphthalene	142.0		7.636		ND			
92 1,2,4,5-Tetrachlorobenzene	216.0		7.781		ND			
31 2,4,6-Trichlorophenol	196.0		7.865		ND			
34 1,1'-Biphenyl	154.0		8.010		ND			
39 2,6-Dinitrotoluene	165.0		8.301		ND			
38 Acenaphthylene	152.0		8.409		ND			
* 41 Acenaphthene-d10	164.0	8.533	8.533	0.000	127119	0.40000	0.40000	
42 Acenaphthene	153.0		8.548		ND			
43 2,4-Dinitrophenol	184.0		8.548		ND			

Compound	Sig	RT (min.)	Cal RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/ul	Final Conc ug/L	Flags
46 2,4-Dinitrotoluene	165.0		8.656		ND			
45 Dibenzofuran	168.0		8.703		ND			
48 Fluorene	166.0		8.996		ND			
51 4,6-Dinitro-2-methylphenol	198.0		9.012		ND			
55 Hexachlorobenzene	284.0		9.473		ND			
56 Atrazine	200.0		9.463		ND			
57 Pentachlorophenol	266.0		9.629		ND			
* 58 Phenanthrene-d10	188.0	9.796	9.796	0.000	318799	0.40000	0.40000	
59 Phenanthrene	178.0		9.817		ND			
60 Anthracene	178.0		9.859		ND			
$ 116 Flouranthene-d10	212.0	10.924	10.924	0.000	57734	0.06868	0.06868	
63 Fluoranthene	202.0		10.941		ND			
64 Pyrene	202.0		11.203		ND			
68 3,3'-Dichlorobenzidine	252.0		12.644		ND			
67 Benzo(a)anthracene	228.0		12.731		ND			
* 69 Chrysene-d12	240.0	12.748	12.748	0.000	351173	0.40000	0.40000	
70 Chrysene	228.0		12.783		ND			
73 Benzo(b)fluoranthene	252.0		14.407		ND			
74 Benzo(k)fluoranthene	252.0		14.447		ND			
75 Benzo(a)pyrene	252.0		14.974		ND			
* 76 Perylene-d12	264.0	15.073	15.073	0.000	304789	0.40000	0.40000	
77 Indeno(1,2,3-cd)pyrene	276.0		17.305		ND			
78 Dibenzo(a,h)anthracene	278.0		17.323		ND			
79 Benzo(g,h,i)perylene	276.0		17.986		ND			

QC Flag Legend

Processing Flags

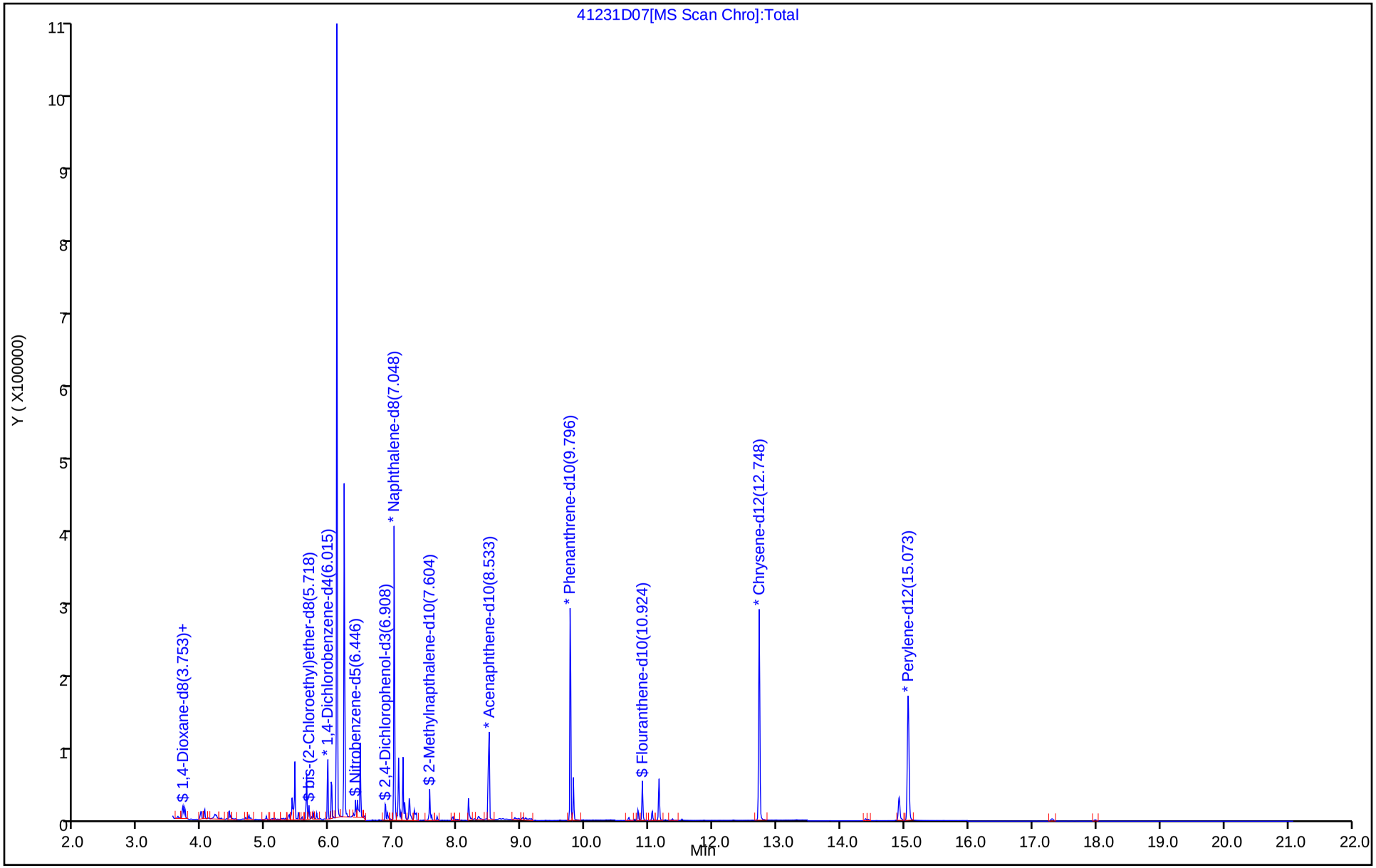
e - Compound Concentration Below Quantitation Limit

R - Spike/Surrogte Fails %Recovery Test

Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

Shealy Environmental Services

Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D07.D				
Injection Date:	31-Dec-2015 14:53:30	Inst. ID:	msd4.i	Operator:	RBH
Client ID:	SBLK45	Lab ID:	QQ92745-001		
Sample Info:	4123115D, QQ92745-001				
Injection Vol.	2.00 1	Dil. Factor:	1.0		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan		

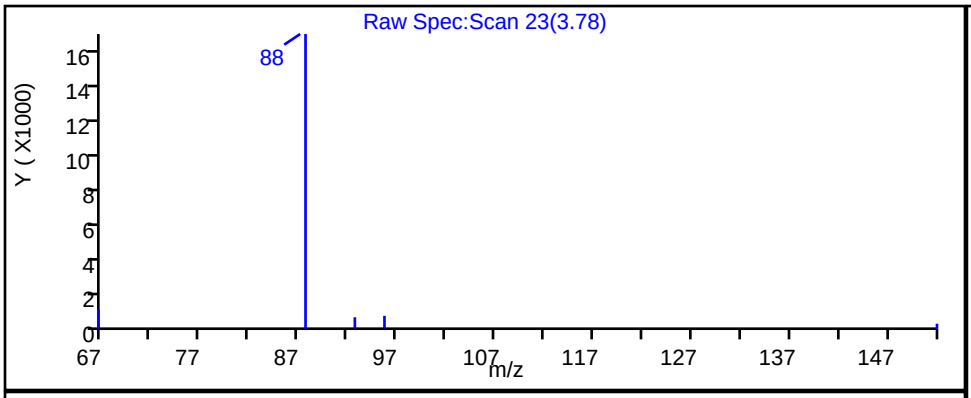


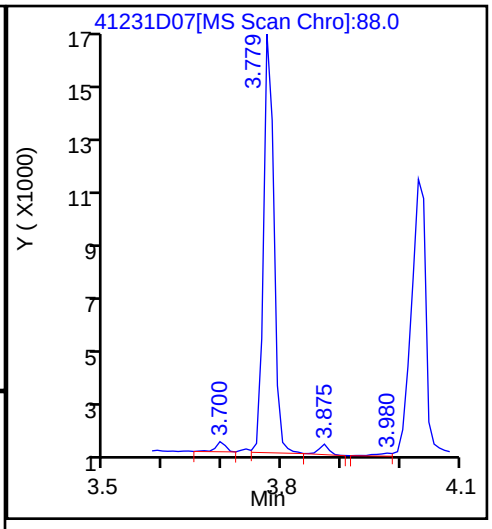
Report Date: 06-Jan-2016 10:12:41 AIM Revision: 1.0 26-May-2015 13:41:26

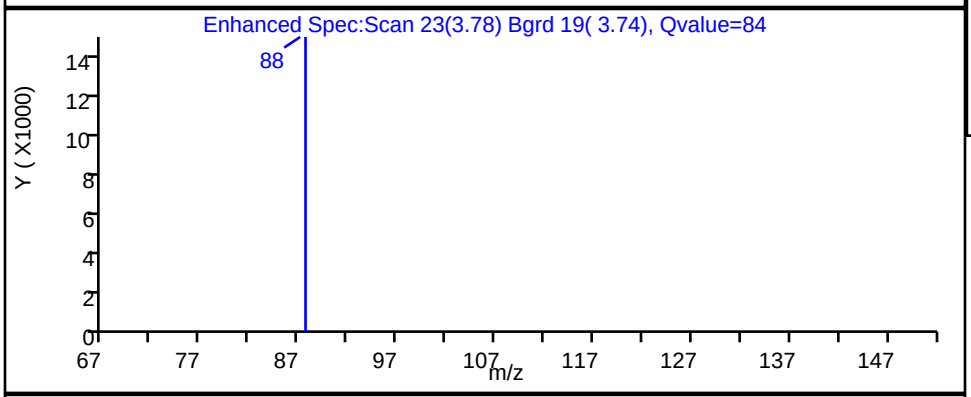
Shealy Environmental Services

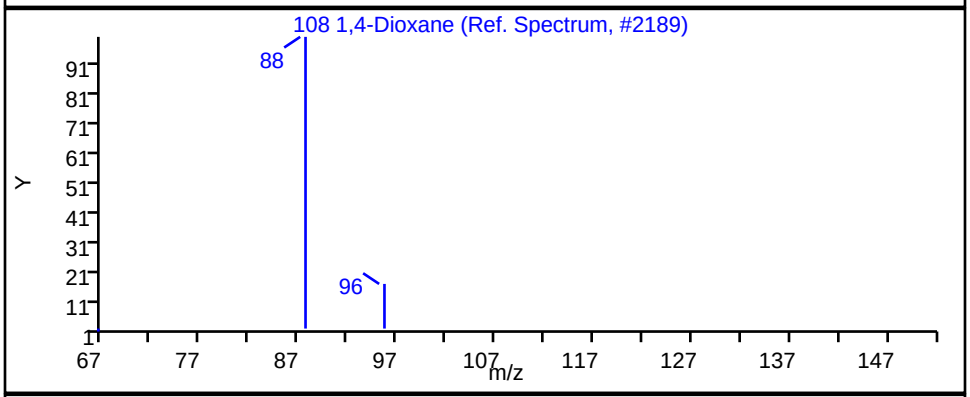
Data File:	\\Organics\HH\chem\msd4.i\4123115D.b\41231D07.D		
Injection Date:	31-Dec-2015 14:53:30	Inst. ID:	msd4.i
Client ID:	SBLK45	Lab ID:	QQ92745-001
Sample Info:	4123115D, QQ92745-001		
Injection Vol.	2.00 1	Dil. Factor:	1.0
Operator:	RBH		
Column1:	Zebron ZB-SV (0.25 mm)	Detector:	MS Scan

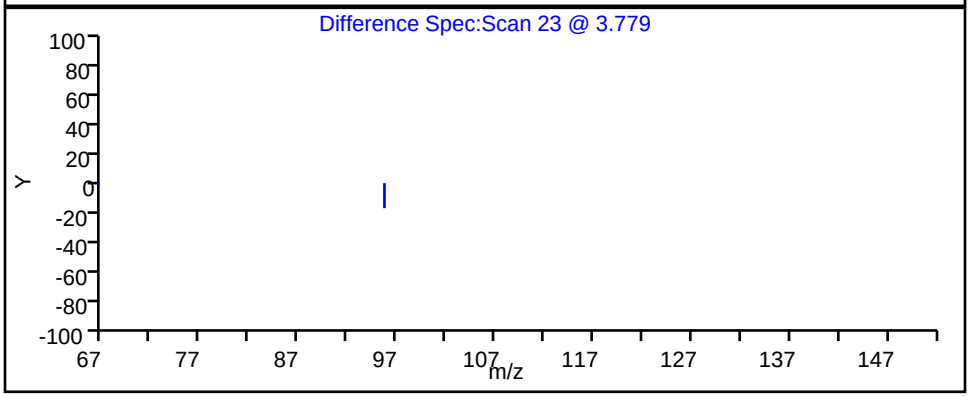
108 1,4-Dioxane











SEMIVOLATILE-sim Miscellaneous Data

Run Logs

Standard Preparation Logs

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd4.i\4121815B.b
Inst. ID: msd4.i Method: Sim2544
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	ICal Lvl	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	18-Dec-2015 14:10:30	41218B01.D	DFTPP		DFTPPOM	Water	1	all			Yes				IS:SVMS 1670	SOMDFTPP
1	SSTD.05ON	18-Dec-2015 14:25:30	41218B02.D	Ical	1	SSTD.05ON	Water	1	std		Yes					SVMS 1700	Sim2544
2	SSTD0.1ON	18-Dec-2015 14:51:30	41218B03.D	Ical	2	SSTD0.1ON	Water	1	std		Yes					SVMS 1701	Sim2544
3	SSTD0.2ON	18-Dec-2015 15:17:30	41218B04.D	Ical	3	SSTD0.2ON	Water	1	std		Yes					SVMS 1702	SIM2544
4	SSTD0.4ON	18-Dec-2015 15:44:30	41218B05.D	Ical	4	SSTD0.4ON	Water	1	std		Yes					SVMS 1703	SIM2544
5	SSTD0.8ON	18-Dec-2015 16:10:30	41218B06.D	Ical	5	SSTD0.8ON	Water	1	std		Yes					SVMS 1704	SIM2544
6	SSTD1.6ON	18-Dec-2015 16:36:30	41218B07.D	Ical	6	SSTD1.6ON	Water	1	std		Yes					SVMS 1705	SIM2544
8	QQ92102-001	18-Dec-2015 17:02:30	41218B08.D	BLANK		SBLK02	Soil	1	std		Yes					92588 IS	Sim2544
9	QL04012-001	18-Dec-2015 17:28:30	41218B09.D	Client		F6R00	Soil	20	std		Yes						Sim2544
10	QL04012-002	18-Dec-2015 17:55:30	41218B10.D	Client		F6R01	Soil	20	std		Yes					IS	SIM2544
11	QL04012-003	18-Dec-2015 18:21:30	41218B11.D	Client		F6R02	Soil	20	std		Yes						SIM2544
12	QL04012-004	18-Dec-2015 18:47:30	41218B12.D	Client		F6R03	Soil	20	std		Yes					IS	SIM2544
13	QL04012-005	18-Dec-2015 19:14:30	41218B13.D	Client		F6R04	Soil	20	std		Yes						SIM2544
14	QL11018-006	18-Dec-2015 19:40:30	41218B14.D	Client		F6R10	Soil	20	std		Yes						SIM2544
15	QL11018-007	18-Dec-2015 20:06:30	41218B15.D	Client		F6R11	Soil	20	std		Yes						SIM2544
16	QL11018-008	18-Dec-2015 20:32:30	41218B16.D	Client		F6R12	Soil	20	std		Yes						SIM2544
17	QL11018-009	18-Dec-2015 20:58:30	41218B17.D	Client		F6R13	Soil	20	std		Yes						SIM2544
18	QL11018-010	18-Dec-2015 21:24:30	41218B18.D	Client		F6R14	Soil	20	std		Yes						SIM2544
19	QL11018-011	18-Dec-2015 21:51:30	41218B19.D	Client		F6R15	Soil	20	std		Yes						SIM2544
20	QL11018-012	18-Dec-2015 22:17:30	41218B20.D	Client		F6R16	Soil	20	std		Yes						SIM2544
21	QL11018-013	18-Dec-2015 22:43:30	41218B21.D	Client		F6R17	Soil	20	std		Yes						SIM2544
22	QL11018-014	18-Dec-2015 23:09:30	41218B22.D	Client		F6R05	Soil	20	std		Yes					IS	SIM2544
23	QL11018-015	18-Dec-2015 23:35:30	41218B23.D	Client		F6R06	Soil	20	std		Yes					IS	SIM2544
24	QL11018-016	19-Dec-2015 00:01:30	41218B24.D	Client		F6R07	Soil	20	std		Yes						SIM2544
25	QL11018-017	19-Dec-2015 00:27:30	41218B25.D	Client		F6R08	Soil	20	std		Yes						SIM2544
26	QL11018-018	19-Dec-2015 00:54:30	41218B26.D	Client		F6R09	Soil	20	std		Yes						SIM2544
3	SSTD0.2OQ	19-Dec-2015 01:20:30	41218B27.D	Ccv		SSTD0.2OQ	Water	1	std		Yes					SVMS 1702	Sim2544-end
7	GPCBLK02	19-Dec-2015 01:46:30	41218B28.D	Client			Water	1	std		Yes					NA	SIM2544
3	SSTD0.2OQ	19-Dec-2015 02:13:30	41218B29.D	Ccv		SSTD0.2OQ	Water	1	std		Yes						Sim2544-end

Shealy Environmental Services
Run Log Report

Batch Path: \\Organics\HH\chem\msd4.i\4123115D.b
Inst. ID: msd4.i Method: Sim2544
Matrix: Water Operator: RBH

ALS Vial	Lab Sample ID	Injection Date/Time	Data File	Sample Type	Client Sample ID	Matrix	Dil Fact	Sublist	SpikeList	Rpt Tics	MS Tune	Inst QC	pH	Std Lot#	Comments	Method
96	SVMS 1608	31-Dec-2015 12:11:30	41231D01.D	DFTPP	DFTPPPE	Water	1	all			Yes				IS:SVMS 1670	SOMDFTPP
97	SSTD0.2PF	31-Dec-2015 12:27:30	41231D02.D	Ccv	SSTD0.2PF	Water	1	std		Yes					SVMS 1702	SIM2544
1	QQ92745-001	31-Dec-2015 13:06:30	41231D03.D	BLANK	SBLK45	Water	1	std		Yes					RR	Sim2544
2	QL16010-001	31-Dec-2015 13:33:30	41231D04.D	Client	F6R29	Water	1	std		Yes					93440	SIM2544
3	QL16010-002	31-Dec-2015 13:59:30	41231D05.D	Client	F6R32	Water	20	std		Yes					IS RR	Sim2544
4	QL16010-003	31-Dec-2015 14:26:30	41231D06.D	Client	F6R33	Water	20	std		Yes					IS RR	Sim2544
9	QQ92745-001	31-Dec-2015 14:53:30	41231D07.D	BLANK	SBLK45	Water	1	std		Yes						SIM2544
5	QL16010-004	31-Dec-2015 15:19:30	41231D08.D	Client	F6R34	Water	20	std		Yes						SIM2544
6	QL16010-005	31-Dec-2015 15:46:30	41231D09.D	Client	F6R35	Water	1	std		Yes						SIM2544
7	QL16010-006	31-Dec-2015 16:13:30	41231D10.D	Client	F6R36	Water	1	std		Yes						SIM2544
8	QL16010-009	31-Dec-2015 16:39:30	41231D11.D	Client	F6R30	Water	10	std		Yes						SIM2544
3	QL16010-002	31-Dec-2015 17:06:30	41231D12.D	Client	F6R32RE	Water	20	std		Yes					IS	SIM2544
4	QL16010-003	31-Dec-2015 17:33:30	41231D13.D	Client	F6R33RE	Water	20	std		Yes					IS	SIM2544
5	QL16010-004	31-Dec-2015 17:59:30	41231D14.D	Client	F6R34	Water	1	std		Yes					NA	SIM2544
8	QL16010-009	31-Dec-2015 18:26:30	41231D15.D	Client	F6R30	Water	1	std		Yes					NA	SIM2544
97	SSTD0.2PH	31-Dec-2015 18:53:30	41231D16.D	Ccv	SSTD0.2PH	Water	1	std		Yes					SVMS 1702	Sim2544-end

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1670
Prep Date:	12/03/15	Solvent Lot #:	15-1218
Exp Date:	06/03/16	Solvent:	CH2CL2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SIM Internal Std							
Internal Standard	15-882	4,000	20	10	8		5/19/2025

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1700
Prep Date:	12/18/15	Solvent Lot #:	15-1333
Exp Date:	04/19/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM SIM L-1 MA 2455							
SIM Internal Standard	SVMS 1670	8	25	1	0.2		6/31/2016
SOM DMC Int	SVMS 1699	20	2.5	1	0.05		7/18/2016
SOM SIM DMC	SVMS 1609	20	2.5	1	0.05		5/17/2016
SOM SIM Int	SVMS 1610	20	2.5	1	0.05		5/17/2016
Pentachlorophenol Int	SVMS 1611	20	2.5	1	0.05		5/17/2016
1,4-Dioxane Int	SVMS 1620	20	2.5	1	0.05		4/19/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1701
Prep Date:	12/18/15	Solvent Lot #:	15-1333
Exp Date:	04/19/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM SIM L-2 MA 2455							
SIM Internal Standard	SVMS 1670	8	25	1	0.2		6/31/2016
SOM DMC Int	SVMS 1699	20	5	1	0.1		7/18/2016
SOM SIM DMC	SVMS 1609	20	5	1	0.1		5/17/2016
SOM SIM Int	SVMS 1610	20	5	1	0.1		5/17/2016
Pentachlorophenol Int	SVMS 1611	20	5	1	0.1		5/17/2016
1,4-Dioxane Int	SVMS 1620	20	5	1	0.1		4/19/2016
2,4-Dinitrophenol Int	SVMS 1618	200	4.5	1	0.9		5/17/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1702
Prep Date:	12/18/15	Solvent Lot #:	15-1333
Exp Date:	04/19/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM SIM L-3 MA 2544							
SIM Internal Standard	SVMS 1670	8	25	1	0.2		6/31/2016
SOM DMC Int	SVMS 1699	20	10	1	0.2		7/18/2016
SOM SIM DMC	SVMS 1609	20	10	1	0.2		5/17/2016
SOM SIM Int	SVMS 1610	20	10	1	0.2		5/17/2016
Pentachlorophenol Int	SVMS 1611	20	10	1	0.2		5/17/2016
1,4-Dioxane Int	SVMS 1620	20	10	1	0.2		4/19/2016
2,4-Dinitrophenol Int	SVMS 1618	200	9	1	1.8		5/17/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1703
Prep Date:	12/18/15	Solvent Lot #:	15-1333
Exp Date:	04/19/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM SIM L-4 MA 2544							
SIM Internal Standard	SVMS 1670	8	25	1	0.2		6/31/2016
SOM DMC Int	SVMS 1699	20	20	1	0.4		7/18/2016
SOM SIM DMC	SVMS 1609	20	20	1	0.4		5/17/2016
SOM SIM Int	SVMS 1610	20	20	1	0.4		5/17/2016
Pentachlorophenol Int	SVMS 1611	20	20	1	0.4		5/17/2016
1,4-Dioxane Int	SVMS 1620	20	20	1	0.4		4/19/2016
2,4-Dinitrophenol Int	SVMS 1618	200	18	1	3.6		5/17/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1704
Prep Date:	12/18/15	Solvent Lot #:	15-1333
Exp Date:	04/19/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM SIM L-5 MA 2544							
SIM Internal Standard	SVMS 1670	8	25	1	0.2		6/31/2016
SOM DMC Int	SVMS 1699	20	40	1	0.8		7/18/2015
SOM SIM DMC	SVMS 1609	20	40	1	0.8		5/17/2016
SOM SIM Int	SVMS 1610	20	40	1	0.8		5/17/2016
Pentachlorophenol Int	SVMS 1611	20	40	1	0.8		5/17/2016
1,4-Dioxane Int	SVMS 1620	20	40	1	0.8		4/19/2016
2,4-Dinitrophenol Int	SVMS 1618	200	36	1	7.2		5/17/2016

Refer to COA for specific compound concentrations for mixed standards.

Working Standards Prep Log - GC/MS Semi-volatiles

Initials:	RBH	Mix #:	SVMS 1705
Prep Date:	12/18/15	Solvent Lot #:	15-1333
Exp Date:	04/19/16	Solvent:	CH2Cl2

Compound	Stock Std. #	Conc. of Stock Std.	Aliquoted Volume	Dilution Volume	Final Conc.	Foot Notes (if applicable)	MFG. Exp Date
		µg/mL	µL	mL	µg/mL		
SOM SIM L-6 MA 2544							
SIM Internal Standard	SVMS 1670	8	25	1	0.2		6/31/2016
SOM DMC Int	SVMS 1699	20	80	1	1.6		7/18/2016
SOM SIM DMC	SVMS 1609	20	80	1	1.6		5/17/2016
SOM SIM Int	SVMS 1610	20	80	1	1.6		5/17/2016
Pentachlorophenol Int	SVMS 1611	20	80	1	1.6		5/17/2016
1,4-Dioxane Int	SVMS 1620	20	80	1	1.6		4/19/2016
2,4-Dinitrophenol Int	SVMS 1618	200	72	1	14.4		5/17/2016

Refer to COA for specific compound concentrations for mixed standards.

MISCELLANEOUS

Shipping Documents (Airbills –Original)

DC-1

Internal Chain of Custody

Other Records

32

1000

fedex.com 1.800.GoFedEx 1.800.463.3339

FedEx® US Airbill

Express

8594 8322 0226 0215

Form ID No. SPH31

FedEx Copy

1 From

Date 12/14/15 Sender's FedEx Account Number 2146-1628-9

Sender's Name JON MCBURNEY Phone 609 937-9116

Company LOCKHEED MARTIN GOVT REAC

Address 2890 WOODBRIDGE AVE

Dept./Floor/Suite/Room

City EDISON State NJ ZIP 08837

2 Your Internal Billing Reference

3 To

Recipient's Name BRAD BELDING Phone 803 791-9700

Company SHEALY ENVIRONMENTAL SERVICES

Recipient's Address 106 VANTAGE POINT DRIVE

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City WEST COLUMBIA State SC ZIP 29172

0345596370

8594 8322 0226

4a Express Package Service — *Packages up to 150 lbs.*

1 [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

5 [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

6 [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

3 [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b. Express Freight Service — *Packages over 150 lbs.*

7 [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

8 [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation:

** To most locations.

5 Packaging

6 [ ] FedEx Envelope* 2 [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 [ ] FedEx Box 4 [ ] FedEx Tube 1 [X] Other

* Declared value limit $500.

6 Special Handling

Include FedEx address in Section 3.

3 [ ] **SATURDAY DELIVERY**

1 [ ] **HOLD Weekday** at FedEx Location — Not available for FedEx First Overnight.

31 [ ] **HOLD Saturday** at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

[X] No 4 [ ] Yes — As per attached Shipper's Declaration. [ ] Yes — Shipper's Declaration not required. 6 [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

1 [X] Sender — Acct. No. in Section 1 will be billed. 2 [ ] Recipient 3 [ ] Third Party 4 [ ] Credit Card 5 [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†	Total Charges
		$ .00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 *NEW* Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

[ ] No Signature Required — Package may be left without obtaining a signature for delivery.

10 [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*

34 [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

SRS

Rev. Date 11/05•Part #159279•©1994–2005 FedEx•PRINTED IN U.S.A.•SRS

1324 of 1342

29

1000

FedEx® Express US Airbill

FedEx Tracking Number [redacted]

Form ID No. 0215

Sender's Copy

1 From *Please print and press hard.*

Date 12/15/15 Sender's FedEx Account Number 2146-1628-9

Sender's Name JON McBURNEY Phone (609) 937-9116

Company LOCKHEED MARTIN GOVT REAC

Address 2890 WOODBRIDGE AVE

City EDISON State NJ ZIP 08837 Dept./Floor/Suite/Room

2 Your Internal Billing Reference
First 24 characters will appear on invoice.

OPTIONAL

3 To

Recipient's Name BRAD BELDING Phone (803) 791-9700

Company SHEALY ENVIRONMENTAL SERVICES

Recipient's Address 106 VANTAGE POINT DRIVE

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Dept./Floor/Suite/Room

To request a package be held at a specific FedEx location, print FedEx address here.

City WEST COLUMBIA State SC ZIP 29172

12/16/15

0345596370

Schedule a pickup at fedex.com
Simplify your shipping. Manage your account. Access all the tools you need.

4a Express Package Service

Packages up to 150 lbs.

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service

Packages over 150 lbs.

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling

Include FedEx address in Section 3.

- [ ] SATURDAY Delivery NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location NOT Available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
		$ .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

FedEx Use Only

8 *NEW* Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

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PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE. NO POUCH NEEDED.

fedex.com 1.800.GoFedEx 1.800.463.3339

33

1000

FedEx Express US Airbill

FedEx Tracking Number 8594 8322 0237

Form No. 0215 — Sender's Copy

1 From *Please print and press hard.*

Date 12/14/15 Sender's FedEx Account Number 2146-1628-9

Sender's Name JON MCBURNEY Phone (609) 937-9116

Company LOCKHEED MARTIN GOVT REAC

Address 2890 WOODBRIDGE AVE Dept./Floor/Suite/Room

City EDISON State NJ ZIP 08837

2 Your Internal Billing Reference OPTIONAL
First 24 characters will appear on invoice.

3 To

Recipient's Name BRAD BELDING Phone (803) 791-9700

Company SHEALY ENVIRNMENTAL SERVICES

Recipient's Address 106 VANTAGE POINT DRIVE Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address
To request a package be held at a specific FedEx location, print FedEx address here.

City WEST COLUMBIA State SC ZIP 29172

12 MCH5

0345596370

Schedule a pickup at fedex.com
Simplify your shipping. Manage your account. Access all the tools you need.

4a Express Package Service *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery NOT Available for** FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday at FedEx Location NOT Available for** FedEx First Overnight.
- [ ] **HOLD Saturday at FedEx Location Available ONLY for** FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†	
		$ .00	FedEx Use Only

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 *NEW* Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

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fedex.com 1.800.GoFedEx 1.800.463.3339

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE. NO POUCH NEEDED.

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Mariela Monge		Log-in Date 12/16/15
Case Number 45671	SDG No. FLEK29	MA No. 2544.1

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8594832202237
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	7.0
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	12/16/15
12. Time Received	1106

	EPA Sample #	Corresponding: Sample Tag #	Corresponding: Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	FLEK29	MA	QL16010-001	OK
2	FLEK35	"	-005	"
3	FLEK36	"	-006	"
4				
5				
6				
7				
8				
9				
10				
11			mcm 12/16/15	
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

* Contact SMO and attach record of resolution

Reviewed By	Logbook No. MA
Date 12/16/15	Logbook Page No. MA

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		
Received By (Print Name) Mariela Monje		Page 1 of 1
Received By (Signature)		Log-in Date 12/16/15
Case Number 45671	SDG No. FLK29	MA No. 2544.1

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	088942322 0190
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	8.6
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	12/16/15
12. Time Received	1106

	EPA Sample #	Corresponding: Sample Tag #	Corresponding: Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	FLK30	MA	QL16010 -002	OK
2	FLK32		-003	
3	FLK33		-004	
4	FLK34		-009	
5				
6				
7				
8				
9				
10				
11				
12				
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14				
15				
16				
17				
18				
19				
20				
21				
22				

12/16/15

* Contact SMO and attach record of resolution

Reviewed By MN	Logbook No. NA
Date 12/16/15	Logbook Page No. NA

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy		Page 1 of 1
Received By (Print Name) Mariela Monge		Log-in Date 12/16/15
Received By (Signature)		
Case Number 45671	SDG No. F6K29	MA No. 29415.1

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	885942322 0226
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	4.0
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	12/16/15
12. Time Received	1106

	EPA Sample #	Corresponding: Sample Tag #	Corresponding: Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	F6K29	NA	QW16010 -001	Ok
2	F6K32		-002	
3	F6K33		-003	
4	F6K34		-004	
5	F6K35		-005	
6	F6K36		-006	
7	F6K39		-007	
8				
9				
10				
11				
12				
13				
14			mcm 12/16/15	
15				
16				
17				
18				
19				
20				
21				
22				

* Contact SMO and attach record of resolution

Reviewed By MMN	Logbook No. NA
Date 12/16/15	Logbook Page No. NA

Volatile Internal Chain of Custody

Date	Time	Analyst	From	To	Lab Sample ID	Container #	Consumed Y/N
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL16010-007	1	Y
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL16009-001	1	Y
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL16009-002	1	Y
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL16009-003	1	Y
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL12005-018	1	Y
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL12005-019	1	Y
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL12005-020	1	Y
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL12005-021	1	Y
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL16010-001	1	Y
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL16010-005	1	Y
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL16010-006	1	Y
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL16010-003	1	Y
12/21/2015	8:00	ALL	Refrigerator #18	MSD8	QL16010-004	1	Y

Volatile Internal Chain of Custody

Date	Time	Analyst	From	To	Lab Sample ID	Container #	Consumed Y/N
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL12005-021	2	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL12005-020	2	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL16010-003	2	Y
12/22/2015	8:00	ALL	Walk-In #8	MSD8	QL16010-002	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL09048-005	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL16009-006	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL09045-014	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL10029-003	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL10037-002	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL12005-006	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL16010-008	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-01	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-02	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-03	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-04	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-05	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-06	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-07	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-08	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-09	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-10	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-11	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-12	1	Y
12/22/2015	8:00	ALL	Refrigerator #18	MSD8	QL21009-13	1	Y

Volatile Internal Chain of Custody

Date	Time	Analyst	From	To	Lab Sample ID	Container #	Consumed Y/N
12/22/2015	8:00	PAP	Refrigerator #18	MSD8	QL16010-001	2	Y
12/22/2015	8:00	PAP	Refrigerator #18	MSD8	QL16010-005	2	Y
12/22/2015	8:00	PAP	Refrigerator #18	MSD8	QL16010-006	2	Y
12/22/2015	8:00	PAP	Refrigerator #18	MSD8	QL16010-007	2	Y
12/22/2015	8:00	PAP	Refrigerator #18	MSD8	QL16010-003	2	Y

Volatile Internal Chain of Custody

Date	Time	Analyst	From	To	Lab Sample ID	Container #	Consumed Y/N
12/23/2015	8:00	PAP	Refrigerator #18	MSD8	QL16010-004	2	Y
12/23/2015	8:00	PAP	Walk-in #8	MSD8	QL16010-002	2	Y
12/23/2015	8:00	PAP	Refrigerator #18	MSD8	QL16010-003	3	Y

Internal Chain of Custody for SOM, GCSV, and GCMS Samples: Refrigerator #24 Extraction Prep Area

Date of Receipt	Time of Receipt	Custodian	From: EP or CP	Received To	Batch #	Batch Out Date	Batch Out Time	Custodian	Out To: SV , D , CP
12/22/15	1518	DAL	EP	Ref #24	92747 Som SV	12/22/15	1127	JBH	SV
~~12/22/15~~	~~1127~~	~~JBH~~		~~Ref #24~~					
12/22/15	1748	JBH	CP	Ref #24	92637 608 (Acid) (Horiz)	12/23/15	0750	MBM	SV
12/22/15	1752	TAC	CP	Ref #24	92774 Som AAO				
12/23/15	0218	SDW	CP	Ref #24	92847 8082A				
↓	↓	↓	↓	Ref #24	92851 ↓				
12/23/15	0918	DAL	CP	Ref #24	92846 Som SV	12/23/15	0918	DAL	SV
L	1125	L	L	Ref #24	92838 Som SV(Sin)	L	1125	L	L
12/23/15	1138	DAL	CP	Ref #24	92786/1 8082A	12/23/15	1138	DAL	SV
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					
				Ref #24					

To and From Locations: EP = Extraction Prep, CP = Cleanup Procedure, SV = SV Ref #10, D = Disposed of
Refer to the Batch Sheet for the individual lab samples assigned to each batch.

Internal Chain of Custody for SOM, GCSV, and GCMS Samples: Refrigerator #24 Extraction Prep Area

Date of Receipt	Time of Receipt	Custodian	From: EP or CP	Received To	Batch #	Batch Out Date	Batch Out Time	Custodian	Out To: SV , D , CP
12/20/15	2120	EWR	EP	Ref #24	92614 8081B	12/21/15	0746	MEM	SV
"	2144	"	"	Ref #24	92501/39 8270D	12/21/15	0810	DRB1	SV
"	"	"	"	Ref #24	92615/6 8270D	"	"	"	"
12/20/15	2151	EWR	EP	Ref #24	92513 SOMSIM	12/21/15	0916	RBH	SV
"	"	"	"	Ref #24	92499 SIM	"	"	"	"
"	"	"	"	Ref #24	92502/05 8270D	12/21/15	0810	DRB1	SV
"	"	"	"	Ref #24	92532 8081B	12/21/15	0746	MEM	SV
"	"	"	"	Ref #24	92541 8081B	"	"	"	"
12/20/15	2347	EWR	EP	Ref #24	92670 8011	"	"	"	"
12/21/15	0845	JM	EP	Ref #24	92518 LLHg	12/22/15	0934	DRB1	SV
12/4/15	1135	TAC	EP	Ref #24	92634/5 EPH	12/21/15	1340	MEM	SV
"	1544	"	"	Ref #24	92636 PAH SIM	12/21/15	1603	DRB1	SV
"	1758	"	"	Ref #24	92626 625				
12/22/15	0042	EWR	EP	Ref #24	92754 DRO	12/22/15	0758	MEM	SV
12/22/15	1012	TAC	CP	Ref #24	92512 SOMSV	12/22/15	1031	RBH	SV
"	1131	"	EP	Ref #24	92742 8270D	12/23/15	0821	DRB1	SV
"	1245	"	CP	Ref #24	92731 608/8143	12/22/15	1254	MEM	SV
12/22/15	1452	DALI	EP	Ref #24	92745 SOMSV(SIM)	12/23/15	1414	RBH	SV

To and From Locations: EP = Extraction Prep, CP = Cleanup Procedure, SV = SV Ref #10, D = Disposed of
Refer to the Batch Sheet for the individual lab samples assigned to each batch.

Internal Chain of Custody for SOM, GCSV, and GCMS Samples: Refrigerator #24 Extraction Prep Area

Date of Receipt	Time of Receipt	Custodian	From: EP or CP	Received To	Batch #	Batch Out Date	Batch Out Time	Custodian	Out To: SV , D , CP
12/14/15	1614	TAC	EP	Ref #24	92072 8270D	12/16/15	0853	DRB1	SV
↓	1750	↓	CP	Ref #24	92122 SomARO	12/15/15	0754	MEM	SV
12/14/15	2148	EWR	CP	Ref #24	92054 SomPest	↓	↓	↓	↓
12/15/15	0912	DALI	EP	Ref #24	92046 T.DNA	12/15/15	0912	DALI	SV
↓	↓	↓	↓	Ref #24	92051 T.DNA	↓	↓	↓	↓
12/15/15	1407	DALI	EP	Ref #24	92112 8081B	12/15/15	1501	DRB1	SV
12/15/15	1418	DALI	EP	Ref #24	92153/4 Som SV/Sim	12/16/15	0816	DRB1	SV
12/15/15	1618	DALI	EP	Ref #24	92207 8015C	12/16/15	0751	MEM	SV
12/15/15	1814	DALI	EP	Ref #24	92164 8081B	↓	↓	↓	↓
↓	↓	↓	CP	Ref #24	92102 Som SV(Sim)	12/16/15	0816	DRB1	SV
12/15/15	1819	EWR	EP	Ref #24	92216 8011	12/16/15	0751	MEM	SV
↓	TAC 12/15/15	↓	↓	Ref #24	92221 8011	↓	↓	↓	↓
12/15/15	H 1945	TAC	CP	Ref #24	92155 THerb	↓	↓	↓	↓
↓	↓	↓	↓	Ref #24	92157 THerb	↓	↓	↓	↓
12/16/15 ~~12/15/15~~ DALI 12/16/15	1115	DALI	EP	Ref #24	92091 8270D	12/16/15	1349	DRB1	SV
~~12/15/15~~	1235	DALI	EP	Ref #24	92240 Som SV	12/16/15	1420	JCG	SV
12/16/15	1400	DALI	EP	Ref #24	92193/92255 8270D	12/16/15	1513	DRB1	SV
12/16/15	1425	TAC	CP	Ref #24	92053 608(5/7)	12/16/15	1429	MEM	SV

To and From Locations: EP = Extraction Prep, CP = Cleanup Procedure, SV = SV Ref #10, D = Disposed of
Refer to the Batch Sheet for the individual lab samples assigned to each batch.

Internal Chain of Custody for SOM, GCSV, and GCMS Samples: Refrigerator #24 Extraction Prep Area

Date of Receipt	Time of Receipt	Custodian	From: EP or CP	Received To	Batch #	Batch Out Date	Batch Out Time	Custodian	Out To: SV , D , CP
12/10/15	1109	TAC	EP	Ref #24	91715 8270D	12/11/15	0813	DRBI	SV
"	1123	"	"	Ref #24	91692 DRO	12/10/15	1343	MEM	SV
12/10/15	1213	DAC	EP	Ref #24	91824 504	"	"	"	"
12/10/15	1606	DAC	CP	Ref #24	91730/2 EPH	12/10/15	1606	DAC	SV
12/10/15	1850	EWR	EP	Ref #24	91758 SOM23SV	12/11/15	1200	JCG	SV
12/11/15	0109	EWR	EP	Ref #24	91856 PCB	12/11/15	0756	MEM	SV
"	"	"	"	Ref #24	91857 PCB	"	"	"	"
"	"	"	"	Ref #24	91874 PCB	"	"	"	"
12/11/15	1018	TAC	EP	Ref #24	91848/53 LL8270D	12/11/15	1257	DRBI	SV
12/11/15	1123	JAC	"	Ref #24	91931 8330A	NA			
12/11/15	1220	TAC	EP	Ref #24	91693 8270D	12/11/15	1257	DRBI	SV
"	1324	"	"	Ref #24	91927 8011	12/11/15	1346	MEM	SV
"	1445	"	"	Ref #24	91795 8270D(SIM)	~~12/14/15~~	1347	JCG	SV
"	1715	"	"	Ref #24	91936/51 8270D	12/14/15	1140	DRBI	SV
"	1810	"	"	Ref #24	91895/6 SOM SV	12/14/15	0538	KBH	SV
"	1810	"	"	Ref #24	91897 LL8270	12/14/15	1140	DRBI	SV
12/11/15	1810	TAC	CP	Ref #24	91819 SOM SV	12/14/15	0838	KBH	SV
12/12/15	0135	JDW	EP	Ref #24	91968 8270D	12/15/15	1534	DRBI	SV

To and From Locations: EP = Extraction Prep, CP = Cleanup Procedure, SV = SV Ref #10, D = Disposed of
Refer to the Batch Sheet for the individual lab samples assigned to each batch.

Shealy Environmental Services, Inc.
Document Number: F-SV-055
Revision Number: 3

Page 1 of 1
Replaces Date: 04/26/12
Effective Date: 02/12/15

Pest/PCB/GCMS Internal Chain of Custody Record from Extractions Ref # 24 to Semivolatiles Ref # 23 or Disposal

*Date of Receipt	Time of Receipt	Custodian	Batch # or Sample #	Out Date	Out Time	Custodian	Out To: D=Disposal	Comments
12/9/15	1152	CMS	91448 SOMPEST					
12/9/15	1436	MBH	91596/7 Som/SimSV					
12/10/15	0755	MEM	91559 SomPest					
↓	↓	↓	91515 SomPest					
12/10/15	0841	MBH	91580 Som SV					
↓	↓	↓	91512/13 Som/SimSV					
12/11/15	1210	JCG	91758 SomSV					
~~12/13/15~~ 12/14/15	0755	MEM	92052 SomPCB					
12/14/15	0838	MBH	91819 Som SV					
↓	↓	↓	91895/6 Som/SimSV					
12/15/15	0754	MEM	92122 SomPCB					
↓	↓	↓	92054 SomPest					
12/16/15	0816	MBH	92102 SomSimSV					
↓	↓	↓	92153/4 Som/SimSV					
12/16/15	1430	JCG	92240 SomSV					
12/17/15	0757	CMS	92213 SomPCB					
↓	↓	↓	92214 SomPest					
12/17/15	1046	MBH	92296 Som SV					

* All samples are Received from Extractions Ref #24 and Received to Semivolatiles Ref #23
Refer to the Batch Sheet for the individual lab samples assigned to each batch.

VOA

LOC 18

FD-04

POND

2- GW-03

[redacted]

34-DISCH

34-01

TB-05

Robert Zhu

From: Whitlee Dean <wdean9@csgov.com>
Sent: Wednesday, December 16, 2015 4:41 PM
To: Robert Zhu
Cc: Dan Wright; Appleby.Charlie@epa.gov; Flores.Raymond@epa.gov; Humphrey.marvelyn@Epa.gov; perez.myra@epa.gov
Subject: Region 06 | Case 45671 | Lab EQI | Issue Laboratory problems | FINAL

Good afternoon Dr. Zhu,

Issue: The laboratory received vials for TVOA and TVOA SIM analysis for sample F6R32. With the caps on, the vials reek of fuel. The laboratory cannot even store these vials with the other trace samples. The laboratory would have to dilute the sample extremely highly before analysis. Please advise how the laboratory should proceed.
Resolution: Per Region 6, the laboratory should determine the appropriate dilution level and analyze the sample. The Region will not require an undiluted analysis for sample F6R32 and will approve a waiver, if submitted.

Please let me know if you have any questions or problems. To waive any defect(s) associated with this issue, please contact your Regional CLP COR.
Thanks,

WHITLEE DEAN
Environmental Coordinator- Regions 6 and 9
CSC Government Solutions LLC, A CSRA Company

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From: "Flores, Raymond" <flores.raymond@epa.gov>
To: Whitlee Dean <wdean9@csgov.com>, "Gorostiza, Sylvia" <Gorostiza.Sylvia@epa.gov>, "Perez, Myra" <perez.myra@epa.gov>
Date: 12/16/2015 04:31 PM
Subject: RE: Region 06 | Case 45671 | Lab EQI | Issue Laboratory problems

The lab should determine the appropriate dilution level and analyze the samples. The region will not require an undiluted analysis for F6R32 and will approve a waiver if submitted.

From: Whitlee Dean [mailto:wdean9@csgov.com]
Sent: Wednesday, December 16, 2015 3:24 PM
To: Gorostiza, Sylvia; Perez, Myra
Cc: Flores, Raymond
Subject: Region 06 | Case 45671 | Lab EQI | Issue Laboratory problems

Good afternoon,

EQI is reporting the following issue. Please advise how the laboratory should proceed.

Issue: The laboratory received vials for TVOA and TVOA SIM analysis for sample F6R32. With the caps on, the vials reek of fuel. The laboratory can not even store these vials with the other trace samples. The laboratory would have to dilute the sample extremely highly before analysis. Please advise how the laboratory should proceed.

Please let me know if you have any questions.
Thanks,

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From: Robert Zhu <rzhu@shealylab.com>
To: wdean9@csgov.com
Cc: Dan Wright <dwright@shealylab.com>, "Appleby, Charlie" <Appleby.Charlie@epa.gov>

Date: 12/16/2015 04:12 PM
Subject: [BULK] Trace VOA sample case 45671

Whitlee,

We received a shipment of case 45671 today. Attached is a picture of the two vials for TV and TVSIM sample F6R32. With the caps on, the sample reeks of fuel. I don't know what purpose it serves analyzing this sample by trace and trace sim methods. We cannot even store them with other trace samples. We will have to dilute it extremely high before analysis.

Robert Zhu
Technical Director
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