Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

10/28/09

Technical Report for

ERM Salt Lake City

Vertellus-Provo

Accutest Job Number: T39423

Sampling Date: 10/06/09

Report to:

ERM
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Salt Lake City, UT 84101
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ATTN: Mr. Kevin Lundmark

Total number of pages in report: **582**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Table of Contents

-1-

Section 1: Sample Summary **4**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Sample Results **7**
- **3.1:** T39423-1: MW11:1009 8
- **3.2:** T39423-2: MW26:1009 12
- **3.3:** T39423-3: MW16:1009 16
- **3.4:** T39423-4: MW36:1009 20
- **3.5:** T39423-5: PZ6 :1009 24
- **3.6:** T39423-6: PZ5 :1009 28
- **3.7:** T39423-7: PZ4 :1009 32
- **3.8:** T39423-8: TRIP BLANK 36

Section 4: Misc. Forms **37**
- **4.1:** Chain of Custody 38

Section 5: GC/MS Volatiles - QC Data Summaries **41**
- **5.1:** Method Blank Summary 42
- **5.2:** Blank Spike Summary 43
- **5.3:** Matrix Spike/Matrix Spike Duplicate Summary 44
- **5.4:** Instrument Performance Checks (BFB) 45
- **5.5:** Internal Standard Area Summaries 48
- **5.6:** Surrogate Recovery Summaries 49
- **5.7:** Initial and Continuing Calibration Summaries 50

Section 6: GC/MS Volatiles - Raw Data **68**
- **6.1:** Samples 69
- **6.2:** Method Blanks 94
- **6.3:** Blank Spikes 97
- **6.4:** Matrix Spike/Matrix Spike Duplicates 101
- **6.5:** Instrument Performance Checks (BFB) 109
- **6.6:** Initial and Continuing Calibarations 111
- **6.7:** Instrument Run Logs 179

Section 7: GC/MS Semi-volatiles - QC Data Summaries **187**
- **7.1:** Method Blank Summary 188
- **7.2:** Blank Spike/Blank Spike Duplicate Summary 190
- **7.3:** Matrix Spike/Matrix Spike Duplicate Summary 192
- **7.4:** Instrument Performance Checks (DFTPP) 193
- **7.5:** Internal Standard Area Summaries 202
- **7.6:** Surrogate Recovery Summaries 206
- **7.7:** Initial and Continuing Calibration Summaries 208

Section 8: GC/MS Semi-volatiles - Raw Data **234**
- **8.1:** Samples 235
- **8.2:** Method Blanks 311
- **8.3:** Blank Spike/Blank Spike Duplicates 321
- **8.4:** Matrix Spike/Matrix Spike Duplicates 339

Table of Contents

8.5: Instrument Performance Checks (DFTPP) 347
8.6: Initial and Continuing Calibarations 371
8.7: Instrument Run Logs 545
8.8: Prep Logs 554
Section 9: General Chemistry - QC Data Summaries 556
9.1: Method Blank and Spike Results Summary 557
9.2: Duplicate Results Summary 558
9.3: Matrix Spike Results Summary 559
9.4: Inst QC GN18368: Cyanide 560
9.5: Inst QC GN18369: Cyanide 562
Section 10: General Chemistry - Raw Data 564
10.1: Misc. General Chemistry Raw Data 565

Accutest Laboratories

Sample Summary

ERM Salt Lake City

Vertellus-Provo

Job No: T39423

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T39423-1	10/06/09	08:30	KB	10/07/09	AQ	Ground Water	MW11:1009
T39423-2	10/06/09	09:40	KB	10/07/09	AQ	Ground Water	MW26:1009
T39423-3	10/06/09	10:35	KB	10/07/09	AQ	Ground Water	MW16:1009
T39423-4	10/06/09	11:40	KB	10/07/09	AQ	Ground Water	MW36:1009
T39423-5	10/06/09	12:30	KB	10/07/09	AQ	Ground Water	PZ6 :1009
T39423-6	10/06/09	13:20	KB	10/07/09	AQ	Ground Water	PZ5 :1009
T39423-7	10/06/09	14:30	KB	10/07/09	AQ	Ground Water	PZ4 :1009
T39423-8	10/06/09	00:00	KB	10/07/09	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	ERM Salt Lake City	**Job No**	T39423
Site:	Vertellus-Provo	**Report Date**	10/28/2009 11:56:45 A

7 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 10/06/2009 and were received at Accutest on 10/07/2009 properly preserved, at 1.8 Deg. C and intact. These Samples received an Accutest job number of T39423. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** VF3596

- All samples were analyzed within the recommended method holding time.
- Sample(s) T39314-2MS, T39314-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Benzene, Chloroform, Methylene bromide, Methylene chloride are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Benzene are outside control limits. Probable cause due to matrix interference.
- VF3596-MB for Methylene chloride: Suspected laboratory contaminant. All samples associated with this MB are ND for this compound.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP13230

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T39513-1BSD, T39513-1MS, T39513-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Phenol are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 3&4-Methylphenol, Phenol are outside control limits. Probable cause due to matrix interference.
- Sample(s) OP13230-MSD have surrogates outside control limits. Probable cause due to matrix interference.
- OP13230-MS for Benzenethiol: Compounds was not spiked in the MS sample.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix AQ **Batch ID:** OP13270

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) OP13270-MB have surrogates outside control limits. Probable cause due to matrix interference.
- OP13270-BS: Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.
- OP13270-BSD: Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.

Wet Chemistry By Method EPA 335.4

Matrix AQ	**Batch ID:** GP7017

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T39314-2DUP, T39314-2MS were used as the QC samples for Cyanide.

Matrix AQ	**Batch ID:** GP7018

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T39513-1DUP, T39513-1MS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Probable cause due to matrix interference.
- RPD(s) for Duplicate for Cyanide are outside control limits for sample GP7018-D1. Probable cause due to sample homogeneity.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW11:1009		
Lab Sample ID:	T39423-1	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020670.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	1.5	2.0	0.50	ug/l	J
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	0.55 U	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	0.43 U	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	1.7 U	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		79-122%
17060-07-0	1,2-Dichloroethane-D4	103%		75-121%
2037-26-5	Toluene-D8	89%		87-119%
460-00-4	4-Bromofluorobenzene	90%		80-133%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW11:1009		
Lab Sample ID:	T39423-1	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13765.D	1	10/12/09	SC	10/09/09	OP13230	EJ632
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	1.3 U	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	0.83 U	5.0	0.83	ug/l	
	3&4-Methylphenol	1.6 U	5.0	1.6	ug/l	
108-95-2	Phenol	0.75 U	5.0	0.75	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		10-66%
4165-62-2	Phenol-d5	33%		10-53%
118-79-6	2,4,6-Tribromophenol	54%		32-128%
4165-60-0	Nitrobenzene-d5	54%		29-115%
321-60-8	2-Fluorobiphenyl	50%		34-113%
1718-51-0	Terphenyl-d14	66%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	4.62	4.3	ug/l	JN
5989-27-5	D-Limonene	4.82	18	ug/l	JN
2440-22-4	Drometrizole	13.61	4.1	ug/l	JN
	Total TIC, Semi-Volatile		26.4	ug/l	J

(a) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW11:1009		
Lab Sample ID:	T39423-1	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35555.D	1	10/22/09	SC	10/09/09	OP13270	EH1919
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.042 U	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.054 U	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.041 U	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.060 U	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.056 U	0.20	0.056	ug/l	
218-01-9	Chrysene	0.044 U	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	0.046 U	0.20	0.046	ug/l	
86-73-7	Fluorene	0.064 U	0.20	0.064	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
91-20-3	Naphthalene	0.32	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.075 U	0.20	0.075	ug/l	
129-00-0	Pyrene	0.079 U	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	90% [a]		17-131%
321-60-8	2-Fluorobiphenyl	108% [a]		15-137%
1718-51-0	Terphenyl-d14	115% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW11:1009		
Lab Sample ID:	T39423-1	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.025	0.010	0.0040	mg/l	1	10/17/09 12:43	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

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Report of Analysis

Client Sample ID:	MW26:1009		
Lab Sample ID:	T39423-2	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020671.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	0.55 U	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	0.43 U	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	1.7 U	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	101%		75-121%
2037-26-5	Toluene-D8	89%		87-119%
460-00-4	4-Bromofluorobenzene	88%		80-133%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW26:1009		
Lab Sample ID:	T39423-2	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13766.D	1	10/12/09	SC	10/09/09	OP13230	EJ632
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	1.3 U	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	0.83 U	5.0	0.83	ug/l	
	3&4-Methylphenol	1.6 U	5.0	1.6	ug/l	
108-95-2	Phenol	0.75 U	5.0	0.75	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		10-66%
4165-62-2	Phenol-d5	23%		10-53%
118-79-6	2,4,6-Tribromophenol	63%		32-128%
4165-60-0	Nitrobenzene-d5	56%		29-115%
321-60-8	2-Fluorobiphenyl	47%		34-113%
1718-51-0	Terphenyl-d14	118%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
2440-22-4	Drometrizole	13.61	4.4	ug/l	JN
	Total TIC, Semi-Volatile		4.4	ug/l	J

(a) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW26:1009		
Lab Sample ID:	T39423-2	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35556.D	1	10/22/09	SC	10/09/09	OP13270	EH1919
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.17	0.20	0.042	ug/l	J
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.054 U	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.041 U	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.060 U	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.056 U	0.20	0.056	ug/l	
218-01-9	Chrysene	0.044 U	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	0.046 U	0.20	0.046	ug/l	
86-73-7	Fluorene	0.064 U	0.20	0.064	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
91-20-3	Naphthalene	0.075 U	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.075 U	0.20	0.075	ug/l	
129-00-0	Pyrene	0.079 U	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60% [a]		17-131%
321-60-8	2-Fluorobiphenyl	74% [a]		15-137%
1718-51-0	Terphenyl-d14	100% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW26:1009		
Lab Sample ID:	T39423-2	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.053	0.010	0.0040	mg/l	1	10/17/09 12:43	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW16:1009		
Lab Sample ID:	T39423-3	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020672.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	0.55 U	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	0.43 U	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	1.7 U	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-122%
17060-07-0	1,2-Dichloroethane-D4	109%		75-121%
2037-26-5	Toluene-D8	89%		87-119%
460-00-4	4-Bromofluorobenzene	92%		80-133%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW16:1009		
Lab Sample ID:	T39423-3	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13767.D	1	10/12/09	SC	10/09/09	OP13230	EJ632
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	1.3 U	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	0.83 U	5.0	0.83	ug/l	
	3&4-Methylphenol	1.6 U	5.0	1.6	ug/l	
108-95-2	Phenol	0.75 U	5.0	0.75	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		10-66%
4165-62-2	Phenol-d5	48%		10-53%
118-79-6	2,4,6-Tribromophenol	64%		32-128%
4165-60-0	Nitrobenzene-d5	64%		29-115%
321-60-8	2-Fluorobiphenyl	56%		34-113%
1718-51-0	Terphenyl-d14	83%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
112-36-7	Ethane, 1,1'-oxybis[2-ethoxy-]	4.62	7.1	ug/l	JN
74367-33-2	Propanoic acid, 2-methyl-, 2,2-dim	7.17	5.4	ug/l	JN
	Total TIC, Semi-Volatile		12.5	ug/l	J

(a) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW16:1009		
Lab Sample ID:	T39423-3	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35557.D	1	10/22/09	SC	10/09/09	OP13270	EH1919
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.042 U	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.054 U	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.041 U	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.060 U	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.056 U	0.20	0.056	ug/l	
218-01-9	Chrysene	0.044 U	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	0.046 U	0.20	0.046	ug/l	
86-73-7	Fluorene	0.064 U	0.20	0.064	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
91-20-3	Naphthalene	0.075 U	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.075 U	0.20	0.075	ug/l	
129-00-0	Pyrene	0.079 U	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79% [a]		17-131%
321-60-8	2-Fluorobiphenyl	96% [a]		15-137%
1718-51-0	Terphenyl-d14	108% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW16:1009		
Lab Sample ID:	T39423-3	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.11	0.010	0.0040	mg/l	1	10/17/09 12:48	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW36:1009		
Lab Sample ID:	T39423-4	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020673.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	0.55 U	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	0.43 U	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	1.7 U	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	107%		75-121%
2037-26-5	Toluene-D8	88%		87-119%
460-00-4	4-Bromofluorobenzene	90%		80-133%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW36:1009		
Lab Sample ID:	T39423-4	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13768.D	1	10/12/09	SC	10/09/09	OP13230	EJ632
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	1.3 U	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	0.83 U	5.0	0.83	ug/l	
	3&4-Methylphenol	1.6 U	5.0	1.6	ug/l	
108-95-2	Phenol	0.75 U	5.0	0.75	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		10-66%
4165-62-2	Phenol-d5	44%		10-53%
118-79-6	2,4,6-Tribromophenol	63%		32-128%
4165-60-0	Nitrobenzene-d5	66%		29-115%
321-60-8	2-Fluorobiphenyl	59%		34-113%
1718-51-0	Terphenyl-d14	78%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	4.61	5.8	ug/l	JN
99-94-5	Benzoic acid, 4-methyl-	6.57	9.5	ug/l	JN
1000136-57-7	5-Fluoro-2-methylbenzoic acid	12.83	17	ug/l	JN
	Total TIC, Semi-Volatile		32.3	ug/l	J

(a) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW36:1009		
Lab Sample ID:	T39423-4	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35558.D	1	10/22/09	SC	10/09/09	OP13270	EH1919
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.042 U	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.054 U	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.041 U	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.060 U	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.056 U	0.20	0.056	ug/l	
218-01-9	Chrysene	0.044 U	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	0.046 U	0.20	0.046	ug/l	
86-73-7	Fluorene	0.064 U	0.20	0.064	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
91-20-3	Naphthalene	0.075 U	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.075 U	0.20	0.075	ug/l	
129-00-0	Pyrene	0.079 U	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72% [a]		17-131%
321-60-8	2-Fluorobiphenyl	85% [a]		15-137%
1718-51-0	Terphenyl-d14	98% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW36:1009		
Lab Sample ID:	T39423-4	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.063	0.010	0.0040	mg/l	1	10/17/09 12:50	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ6 :1009		
Lab Sample ID:	T39423-5	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020674.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	0.55 U	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	0.43 U	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	1.7 U	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-122%
17060-07-0	1,2-Dichloroethane-D4	99%		75-121%
2037-26-5	Toluene-D8	89%		87-119%
460-00-4	4-Bromofluorobenzene	92%		80-133%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ6 :1009		
Lab Sample ID:	T39423-5	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13769.D	1	10/12/09	SC	10/09/09	OP13230	EJ632
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	1.3 U	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	0.83 U	5.0	0.83	ug/l	
	3&4-Methylphenol	1.6 U	5.0	1.6	ug/l	
108-95-2	Phenol	0.75 U	5.0	0.75	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		10-66%
4165-62-2	Phenol-d5	42%		10-53%
118-79-6	2,4,6-Tribromophenol	77%		32-128%
4165-60-0	Nitrobenzene-d5	70%		29-115%
321-60-8	2-Fluorobiphenyl	66%		34-113%
1718-51-0	Terphenyl-d14	108%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	4.61	9.5	ug/l	JN
	Total TIC, Semi-Volatile		9.5	ug/l	J

(a) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ6 :1009		
Lab Sample ID:	T39423-5	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35559.D	1	10/22/09	SC	10/09/09	OP13270	EH1919
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.042 U	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.054 U	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.041 U	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.060 U	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.056 U	0.20	0.056	ug/l	
218-01-9	Chrysene	0.044 U	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	0.046 U	0.20	0.046	ug/l	
86-73-7	Fluorene	0.064 U	0.20	0.064	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
91-20-3	Naphthalene	0.075 U	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.075 U	0.20	0.075	ug/l	
129-00-0	Pyrene	0.079 U	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63% [a]		17-131%
321-60-8	2-Fluorobiphenyl	79% [a]		15-137%
1718-51-0	Terphenyl-d14	121% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ6 :1009		
Lab Sample ID:	T39423-5	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0068 B	0.010	0.0040	mg/l	1	10/17/09 12:51	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ5 :1009		
Lab Sample ID:	T39423-6	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020675.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.4	50	4.7	ug/l	J
71-43-2	Benzene	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	0.55 U	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	0.43 U	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	1.7 U	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-122%
17060-07-0	1,2-Dichloroethane-D4	105%		75-121%
2037-26-5	Toluene-D8	88%		87-119%
460-00-4	4-Bromofluorobenzene	89%		80-133%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ5 :1009		
Lab Sample ID:	T39423-6	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13770.D	1	10/12/09	SC	10/09/09	OP13230	EJ632
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	1.3 U	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	0.83 U	5.0	0.83	ug/l	
	3&4-Methylphenol	1.6 U	5.0	1.6	ug/l	
108-95-2	Phenol	0.75 U	5.0	0.75	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		10-66%
4165-62-2	Phenol-d5	31%		10-53%
118-79-6	2,4,6-Tribromophenol	76%		32-128%
4165-60-0	Nitrobenzene-d5	73%		29-115%
321-60-8	2-Fluorobiphenyl	67%		34-113%
1718-51-0	Terphenyl-d14	100%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	4.62	14	ug/l	JN
74367-33-2	Propanoic acid, 2-methyl-, 2,2-dim	7.16	4.2	ug/l	JN
	Total TIC, Semi-Volatile		18.2	ug/l	J

(a) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ5 :1009		
Lab Sample ID:	T39423-6	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35560.D	1	10/22/09	SC	10/09/09	OP13270	EH1919
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.042 U	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.054 U	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.041 U	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.060 U	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.056 U	0.20	0.056	ug/l	
218-01-9	Chrysene	0.044 U	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	0.046 U	0.20	0.046	ug/l	
86-73-7	Fluorene	0.064 U	0.20	0.064	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
91-20-3	Naphthalene	0.075 U	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.075 U	0.20	0.075	ug/l	
129-00-0	Pyrene	0.079 U	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69% [a]		17-131%
321-60-8	2-Fluorobiphenyl	89% [a]		15-137%
1718-51-0	Terphenyl-d14	113% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ5 :1009		
Lab Sample ID:	T39423-6	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.021	0.010	0.0040	mg/l	1	10/17/09 12:55	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ4 :1009		
Lab Sample ID:	T39423-7	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020676.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	0.55 U	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	0.45	2.0	0.43	ug/l	J
1330-20-7	Xylene (total)	1.7 U	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		79-122%
17060-07-0	1,2-Dichloroethane-D4	105%		75-121%
2037-26-5	Toluene-D8	88%		87-119%
460-00-4	4-Bromofluorobenzene	89%		80-133%

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ4 :1009		
Lab Sample ID:	T39423-7	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J13771.D	1	10/13/09	SC	10/09/09	OP13230	EJ632
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW-846 8270C

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	1.3 U	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	1.3 U	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	0.83 U	5.0	0.83	ug/l	
	3&4-Methylphenol	1.6 U	5.0	1.6	ug/l	
108-95-2	Phenol	0.75 U	5.0	0.75	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	51%		10-66%
4165-62-2	Phenol-d5	42%		10-53%
118-79-6	2,4,6-Tribromophenol	67%		32-128%
4165-60-0	Nitrobenzene-d5	70%		29-115%
321-60-8	2-Fluorobiphenyl	65%		34-113%
1718-51-0	Terphenyl-d14	84%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
112-36-7	Ethane, 1,1'-oxybis[2-ethoxy-]	4.61	8.5	ug/l	JN
74367-33-2	Propanoic acid, 2-methyl-, 2,2-dim	7.16	8.7	ug/l	JN
57-10-3	n-Hexadecanoic acid	12.56	5	ug/l	JN
57-11-4	Octadecanoic acid	14.21	4.2	ug/l	JN
	Total TIC, Semi-Volatile		26.4	ug/l	J

(a) Resorcinol was not detected in the sample.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	PZ4 :1009		
Lab Sample ID:	T39423-7	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
Method:	SW846 8270C BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H35561.D	1	10/22/09	SC	10/09/09	OP13270	EH1919
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.042 U	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	0.072 U	0.20	0.072	ug/l	
120-12-7	Anthracene	0.054 U	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.041 U	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	0.064 U	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	0.060 U	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	0.056 U	0.20	0.056	ug/l	
218-01-9	Chrysene	0.044 U	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.060 U	0.20	0.060	ug/l	
206-44-0	Fluoranthene	0.046 U	0.20	0.046	ug/l	
86-73-7	Fluorene	0.064 U	0.20	0.064	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
91-20-3	Naphthalene	0.075 U	0.20	0.075	ug/l	
85-01-8	Phenanthrene	0.075 U	0.20	0.075	ug/l	
129-00-0	Pyrene	0.079 U	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	67% [a]		17-131%
321-60-8	2-Fluorobiphenyl	90% [a]		15-137%
1718-51-0	Terphenyl-d14	108% [a]		10-160%

(a) Recovery was adjusted for 10x spiking.

U = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PZ4 :1009		
Lab Sample ID:	T39423-7	**Date Sampled:**	10/06/09
Matrix:	AQ - Ground Water	**Date Received:**	10/07/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.039	0.010	0.0040	mg/l	1	10/17/09 12:56	CV	EPA 335.4

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	T39423-8	**Date Sampled:**	10/06/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/07/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020660.D	1	10/09/09	AP	n/a	n/a	VF3596
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

8260 Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4.7 U	50	4.7	ug/l	
71-43-2	Benzene	0.50 U	2.0	0.50	ug/l	
67-66-3	Chloroform	0.64 U	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	0.53 U	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	0.55 U	2.0	0.55	ug/l	
74-95-3	Methylene bromide	0.65 U	2.0	0.65	ug/l	
75-09-2	Methylene chloride	0.41 U	5.0	0.41	ug/l	
78-93-3	Methyl ethyl ketone	3.9 U	10	3.9	ug/l	
108-88-3	Toluene	0.43 U	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	1.7 U	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	96%		75-121%
2037-26-5	Toluene-D8	92%		87-119%
460-00-4	4-Bromofluorobenzene	90%		80-133%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST Laboratories

10165 Harwin Dr, Ste 150 Houston, TX 77036
TEL. 713-271-4700 FAX: 713-271-4770
www.accutest.com

PAGE 1 OF 1

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T39423

Client / Reporting Information

Company Name: ERM
Street Address: 102 West 500 South, Suite 650
City: Salt Lake City State: UT Zip: 84101
Project Contact: Kevin Lundmark E-mail:
Phone #: 801 595-8400 Fax #:
Sampler(s) Name(s): Kris Benson Phone #:

Project Information

Project Name: Vertellus Provo
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analyses

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAcOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	Volatile/8260	SVOC and SIMPAH/8270	Sodium /6010	Cyanide	Sulfate	LAB USE ONLY
1	MW11:1009	10/6/09	8:30	KB	GW	6	3	1				2							X	X		X		
2	MW26:1009		9:40	KB			3	1				2							X	X		X		
3	MW16:1009		10:35	KB			3	1				2							X	X		X		
4	MW36:1009		11:40	KB			3	1				2							X	X		X		
5	PZ6:1009		12:30	KB			3	1				2							X	X		X		
6	PZ5:1009		13:20	KB			3	1				2							X	X		X		
7	PZ4:1009		14:30	KB			3	1				2							X	X		X		
8	Trip Blank																							

Turnaround Time (Business days)

- [XX] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [XX] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	10/6/09 16:00	1	2 FedEx	9/22 5:19	2
Relinquished by Sampler: 2	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # [ ] Intact [ ] Not intact	Preserved where applicable [ ]	On Ice 1.8 Cooler Temp.

4.1 4

T39423: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T39423 Client: ERM Date/Time Received: 10/7/09 0900

# of Coolers Received: 1 Thermometer #: IR-1 Temperature Adjustment Factor: +0.4

Cooler Temps: #1: 1.8 #2: 2.4 #3: ____ #4: ____ #5: ____ #6: ____ #7: ____ #8: ____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: ____

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? ____
Number of 5035 kits? ____
Number of lab-filtered metals? ____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature]

INFORMATION AND SAMPLE LABELING VERIFIED BY: EC 10.7.9

CORRECTIVE ACTIONS

Client Representative Notified: ____ **Date:** ____

By Accutest Representative: ____ **Via:** Phone Email

Client Instructions:

i:\mwalker\form\samplemanagement

4.1

4

T39423: Chain of Custody
Page 2 of 3

ACCUTEST Laboratories T39423

SAMPLE RECEIPT LOG

JOB #: T39423 DATE/TIME RECEIVED: 10/7/09 0900

CLIENT: ERM INITIALS: EF

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW 11 : 1009	10/6/09 830	W	LAG	1-2	1F	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	2	MW 26 : 1009	940		LAG	1-2	1F	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	3	MW 16 : 1009	1035		LAG	1-2	1F	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	4	MW 36 : 1009	1140		LAG	1-2	1F	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	5	PZ 6 : 1009	1230		LAG	1-2	1F	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	6	PZ ~~4~~ 5 EF : 1009	1320		LAG	1-2	1F	1 2 3 4 5 6 7 8	<2	>12
2					EF ~~40ml~~ P125	3	"	1 2 3 4 5 6 7 8	<2	>12
"					40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
1	7	PZ 4 : 1009	1430		LAG	1-2	1F	1 2 3 4 5 6 7 8	<2	>12
2					P125	3	"	1 2 3 4 5 6 7 8	<2	>12
↓			↓		40ml	4-6	VR	1 2 3 4 5 6 7 8	<2	>12
↓	8	Trip Blank	—	↓	"	1-2	VR	1 2 3 4 5 6 7 8	<2	>12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

4.1

4

T39423: Chain of Custody

Page 3 of 3

ACCUTEST Laboratories T39423

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3596-MB	F020658.D	1	10/09/09	AP	n/a	n/a	VF3596

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39423-1, T39423-2, T39423-3, T39423-4, T39423-5, T39423-6, T39423-7, T39423-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	4.7	ug/l	
71-43-2	Benzene	ND	2.0	0.50	ug/l	
67-66-3	Chloroform	ND	2.0	0.64	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.53	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
74-95-3	Methylene bromide	ND	2.0	0.65	ug/l	
75-09-2	Methylene chloride [a]	2.0	5.0	0.41	ug/l	J
78-93-3	Methyl ethyl ketone	ND	10	3.9	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	93%	75-121%
2037-26-5	Toluene-D8	93%	87-119%
460-00-4	4-Bromofluorobenzene	91%	80-133%

(a) Suspected laboratory contaminant. All samples associated with this MB are ND for this compound.

Blank Spike Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3596-BS	F020656.D	1	10/09/09	AP	n/a	n/a	VF3596

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39423-1, T39423-2, T39423-3, T39423-4, T39423-5, T39423-6, T39423-7, T39423-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	112	90	62-124
71-43-2	Benzene	25	27.5	110	76-118
67-66-3	Chloroform	25	24.3	97	75-117
75-15-0	Carbon disulfide	25	27.2	109	57-126
100-41-4	Ethylbenzene	25	23.7	95	75-112
74-95-3	Methylene bromide	25	24.7	99	68-114
75-09-2	Methylene chloride	25	27.7	111	70-113
78-93-3	Methyl ethyl ketone	125	124	99	62-117
108-88-3	Toluene	25	25.7	103	77-114
1330-20-7	Xylene (total)	75	72.0	96	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	92%	79-122%
17060-07-0	1,2-Dichloroethane-D4	87%	75-121%
2037-26-5	Toluene-D8	92%	87-119%
460-00-4	4-Bromofluorobenzene	89%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T39314-2MS	F020662.D	1	10/09/09	AP	n/a	n/a	VF3596
T39314-2MSD	F020663.D	1	10/09/09	AP	n/a	n/a	VF3596
T39314-2	F020661.D	1	10/09/09	AP	n/a	n/a	VF3596

The QC reported here applies to the following samples: **Method:** SW846 8260B

T39423-1, T39423-2, T39423-3, T39423-4, T39423-5, T39423-6, T39423-7, T39423-8

CAS No.	Compound	T39314-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50 U		125	133	106	129	103	3	62-124/21
71-43-2	Benzene	2.0 U		25	30.8	123*	29.7	119*	4	76-118/16
67-66-3	Chloroform	2.0 U		25	29.4	118*	28.3	113	4	75-117/12
75-15-0	Carbon disulfide	2.0 U		25	31.0	124	29.0	116	7	57-126/13
100-41-4	Ethylbenzene	2.0 U		25	25.8	103	25.4	102	2	75-112/12
74-95-3	Methylene bromide	2.0 U		25	29.7	119*	28.3	113	5	68-114/13
75-09-2	Methylene chloride	5.0 U		25	29.0	116*	27.3	109	6	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	93.4	75	96.3	77	3	62-117/21
108-88-3	Toluene	2.0 U		25	27.1	108	26.5	106	2	77-114/12
1330-20-7	Xylene (total)	6.0 U		75	79.5	106	77.1	103	3	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T39314-2	Limits
1868-53-7	Dibromofluoromethane	102%	98%	100%	79-122%
17060-07-0	1,2-Dichloroethane-D4	103%	99%	97%	75-121%
2037-26-5	Toluene-D8	91%	91%	90%	87-119%
460-00-4	4-Bromofluorobenzene	91%	92%	91%	80-133%

Instrument Performance Check (BFB)

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3547-BFB
Lab File ID: F019681.D
Instrument ID: GCMSF
Injection Date: 09/14/09
Injection Time: 11:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	27589	22.5		Pass
75	30.0 - 60.0% of mass 95	65813	53.6		Pass
95	Base peak, 100% relative abundance	122850	100.0		Pass
96	5.0 - 9.0% of mass 95	8327	6.8		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	101570	82.7		Pass
175	5.0 - 9.0% of mass 174	7649	6.2	(7.5) [a]	Pass
176	95.0 - 101.0% of mass 174	98674	80.3	(97.1) [a]	Pass
177	5.0 - 9.0% of mass 176	6644	5.4	(6.7) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF3547-IC3547	F019682.D	09/14/09	12:31	00:33	Initial cal 1
VF3548-IC3547	F019682.D	09/14/09	12:31	00:33	Initial cal 1
VF3547-IC3547	F019683.D	09/14/09	13:01	01:03	Initial cal 2
VF3548-IC3547	F019683.D	09/14/09	13:01	01:03	Initial cal 2
VF3547-IC3547	F019684.D	09/14/09	13:31	01:33	Initial cal 5
VF3548-IC3547	F019684.D	09/14/09	13:31	01:33	Initial cal 5
VF3547-IC3547	F019685.D	09/14/09	14:01	02:03	Initial cal 20
VF3548-IC3547	F019685.D	09/14/09	14:01	02:03	Initial cal 20
VF3547-ICC3547	F019686.D	09/14/09	14:31	02:33	Initial cal 40
VF3548-ICC3547	F019686.D	09/14/09	14:31	02:33	Initial cal 40
VF3548-IC3547	F019687.D	09/14/09	15:01	03:03	Initial cal 100
VF3547-IC3547	F019687.D	09/14/09	15:01	03:03	Initial cal 100
VF3547-IC3547	F019688.D	09/14/09	15:31	03:33	Initial cal 200
VF3548-IC3547	F019688.D	09/14/09	15:31	03:33	Initial cal 200
VF3547-ICV3547	F019690.D	09/14/09	16:31	04:33	Initial cal verification 40
VF3548-ICV3547	F019690.D	09/14/09	16:31	04:33	Initial cal verification 40
VF3548-BS	F019692.D	09/14/09	17:31	05:33	Blank Spike
VF3548-MB	F019694.D	09/14/09	18:31	06:33	Method Blank
T37033-1	F019703.D	09/14/09	23:02	11:04	(used for QC only; not part of job T39423)
T37033-1MS	F019704.D	09/14/09	23:32	11:34	Matrix Spike
T37033-1MSD	F019705.D	09/15/09	00:02	12:04	Matrix Spike Duplicate
ZZZZZZ	F019707.D	09/15/09	01:01	13:03	(unrelated sample)
ZZZZZZ	F019708.D	09/15/09	01:31	13:33	(unrelated sample)
ZZZZZZ	F019709.D	09/15/09	02:02	14:04	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample:	VF3547-BFB	**Injection Date:**	09/14/09
Lab File ID:	F019681.D	**Injection Time:**	11:58
Instrument ID:	GCMSF		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F019710.D	09/15/09	02:32	14:34	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3596-BFB
Lab File ID: F020653.D
Instrument ID: GCMSF
Injection Date: 10/09/09
Injection Time: 10:39

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	5265	20.5		Pass
75	30.0 - 60.0% of mass 95	13821	53.7		Pass
95	Base peak, 100% relative abundance	25728	100.0		Pass
96	5.0 - 9.0% of mass 95	1582	6.1		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	21096	82.0		Pass
175	5.0 - 9.0% of mass 174	1707	6.6	(8.1) [a]	Pass
176	95.0 - 101.0% of mass 174	20216	78.6	(95.8) [a]	Pass
177	5.0 - 9.0% of mass 176	1389	5.4	(6.9) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF3596-CC3547	F020655.D	10/09/09	11:52	01:13	Continuing cal 40
VF3596-BS	F020656.D	10/09/09	12:26	01:47	Blank Spike
VF3596-MB	F020658.D	10/09/09	13:30	02:51	Method Blank
ZZZZZZ	F020659.D	10/09/09	14:00	03:21	(unrelated sample)
T39423-8	F020660.D	10/09/09	14:30	03:51	TRIP BLANK
T39314-2	F020661.D	10/09/09	15:01	04:22	(used for QC only; not part of job T39423)
T39314-2MS	F020662.D	10/09/09	15:31	04:52	Matrix Spike
T39314-2MSD	F020663.D	10/09/09	16:01	05:22	Matrix Spike Duplicate
ZZZZZZ	F020665.D	10/09/09	17:02	06:23	(unrelated sample)
ZZZZZZ	F020666.D	10/09/09	17:32	06:53	(unrelated sample)
ZZZZZZ	F020667.D	10/09/09	18:02	07:23	(unrelated sample)
ZZZZZZ	F020668.D	10/09/09	18:32	07:53	(unrelated sample)
ZZZZZZ	F020669.D	10/09/09	19:02	08:23	(unrelated sample)
T39423-1	F020670.D	10/09/09	19:33	08:54	MW11:1009
T39423-2	F020671.D	10/09/09	20:03	09:24	MW26:1009
T39423-3	F020672.D	10/09/09	20:33	09:54	MW16:1009
T39423-4	F020673.D	10/09/09	21:03	10:24	MW36:1009
T39423-5	F020674.D	10/09/09	21:33	10:54	PZ6 :1009
T39423-6	F020675.D	10/09/09	22:03	11:24	PZ5 :1009
T39423-7	F020676.D	10/09/09	22:33	11:54	PZ4 :1009

Volatile Internal Standard Area Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	VF3596-CC3547	**Injection Date:**	10/09/09
Lab File ID:	F020655.D	**Injection Time:**	11:52
Instrument ID:	GCMSF	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	1000588	10.63	783381	14.60	449234	17.79
Upper Limit [a]	2001176	11.13	1566762	15.10	898468	18.29
Lower Limit [b]	500294	10.13	391691	14.10	224617	17.29

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VF3596-BS	1287154	10.64	994733	14.60	550263	17.79
VF3596-MB	1006956	10.64	764186	14.61	425878	17.79
ZZZZZZ	1012812	10.64	784029	14.60	422825	17.79
T39423-8	1003932	10.64	771059	14.61	428694	17.80
T39314-2	981653	10.64	759252	14.61	416179	17.79
T39314-2MS	917598	10.64	724780	14.62	409687	17.80
T39314-2MSD	979315	10.64	764127	14.61	428517	17.79
ZZZZZZ	967165	10.63	745551	14.60	416993	17.79
ZZZZZZ	951125	10.63	731741	14.60	407771	17.78
ZZZZZZ	914678	10.63	727711	14.60	397202	17.78
ZZZZZZ	944898	10.63	725032	14.59	400174	17.78
ZZZZZZ	1229516	10.62	947128	14.58	507146	17.77
T39423-1	1022704	10.62	758108	14.59	398264	17.77
T39423-2	898376	10.61	708176	14.58	397185	17.77
T39423-3	862083	10.61	670611	14.58	338729	17.76
T39423-4	870545	10.61	685572	14.58	364893	17.76
T39423-5	912887	10.61	705556	14.57	378962	17.76
T39423-6	854299	10.61	671403	14.57	364470	17.76
T39423-7	857323	10.60	668130	14.58	369307	17.77

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
T39423-1	F020670.D	99.0	103.0	89.0	90.0
T39423-2	F020671.D	100.0	101.0	89.0	88.0
T39423-3	F020672.D	101.0	109.0	89.0	92.0
T39423-4	F020673.D	100.0	107.0	88.0	90.0
T39423-5	F020674.D	97.0	99.0	89.0	92.0
T39423-6	F020675.D	101.0	105.0	88.0	89.0
T39423-7	F020676.D	101.0	105.0	88.0	89.0
T39423-8	F020660.D	100.0	96.0	92.0	90.0
T39314-2MS	F020662.D	102.0	103.0	91.0	91.0
T39314-2MSD	F020663.D	98.0	99.0	91.0	92.0
VF3596-BS	F020656.D	92.0	87.0	92.0	89.0
VF3596-MB	F020658.D	98.0	93.0	93.0	91.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	79-122%
S2 = 1,2-Dichloroethane-D4	75-121%
S3 = Toluene-D8	87-119%
S4 = 4-Bromofluorobenzene	80-133%

Initial Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3547-ICC3547
Lab FileID: F019686.D

Response Factor Report GC/MS F

```
Method       : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title        : SW846 8260B and EPA 624
Last Update  : Tue Sep 15 16:21:04 2009
Response via : Initial Calibration

Calibration Files
1   =F019683.D   2   =F019684.D   3   =F019685.D   4   =F019686.D
7   =F019688.D   5   =F019687.D   8   =F019682.D

   Compound             1     2     3     4     7     5     8     Avg   %RSD
-------------------------------------------------------------------------------

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.274 0.296 0.255 0.348 0.253 0.248 0.291 0.281  12.57
3)P Chloromethane     0.234 0.229 0.183 0.347 0.247 0.235 0.356 0.261  24.68
            ---- Linear regression ----  Coefficient =  0.9906
              Response Ratio = 0.00644 + 0.24473 *A

4)C Vinyl Chloride    0.199 0.211 0.168 0.280 0.207 0.194 0.233 0.213  16.63
            ---- Linear regression ----  Coefficient =  0.9924
              Response Ratio = 0.00509 + 0.20439 *A

5)  Bromomethane      0.221 0.195 0.162 0.189 0.155 0.149 0.243 0.188  18.89
            ---- Linear regression ----  Coefficient =  0.9976
              Response Ratio = 0.00600 + 0.15275 *A

6)  Chloroethane      0.132 0.132 0.117 0.138 0.134 0.124 0.157 0.134   9.39
7)  Trichlorofluorome 0.455 0.440 0.401 0.450 0.412 0.386 0.493 0.434   8.47
8)  Acrolein          0.023 0.023 0.019 0.020 0.022 0.022 0.022 0.022   6.74
9)  Ethyl Ether       0.201 0.179 0.160 0.183 0.174 0.169 0.195 0.180   7.90
10)C 1,1-Dichloroethen 0.391 0.358 0.315 0.354 0.341 0.328 0.365 0.350   7.11
11)  Freon 113        0.249 0.256 0.218 0.221 0.221 0.205 0.207 0.225   8.65
12)  Acetone          0.120 0.082 0.062 0.071 0.062 0.064 0.171 0.090  45.59
            ---- Linear regression ----  Coefficient =  0.9994
              Response Ratio = 0.01355 + 0.06190 *A

13)  Iodomethane      0.406 0.398 0.370 0.428 0.363 0.370 0.382 0.388   6.05
14)  Methyl acetate   0.170 0.146 0.125 0.144 0.145 0.145 0.217 0.156  19.26
            ---- Linear regression ----  Coefficient =  0.9998
              Response Ratio = -0.00620 + 0.14558 *A

15)  Allyl Chloride   0.288 0.331 0.329 0.234 0.189 0.227       0.266  22.03
            ---- Quadratic regression ----  Coefficient =  0.9980
              Response Ratio = 0.00907 + 0.25660 *A + -0.01757 *A^2

16)  Carbon Disulfide 0.710 0.714 0.626 0.691 0.700 0.673 0.719 0.690   4.73
17)  Acetonitrile     0.103 0.157 0.041 0.041 0.059 0.050 0.175 0.090  63.38
            ---- Quadratic regression ----  Coefficient =  0.9977
              Response Ratio = 0.01091 + 0.03549 *A + 0.00225 *A^2

18)  Methylene Chlorid 0.392 0.323 0.275 0.307 0.290 0.291 0.499 0.340  23.58
            ---- Linear regression ----  Coefficient =  0.9998
              Response Ratio = 0.00382 + 0.28922 *A

19)  Tert Butyl Alcoho 0.022 0.020 0.018 0.022 0.019 0.020 0.024 0.021   9.78
20)  trans-1,2-Dichlor 0.341 0.338 0.306 0.340 0.320 0.316 0.325 0.327   4.18
21)  Acrylonitrile    0.060 0.057 0.052 0.055 0.063 0.062 0.061 0.058   6.89
22)  Methyl Tert Butyl 0.808 0.744 0.671 0.772 0.686 0.690 0.810 0.740   7.93
```

Initial Calibration Summary

Job Number: T39423 **Sample:** VF3547-ICC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F019686.D
Project: Vertellus-Provo

23)	Hexane	0.194	0.197	0.165	0.165	0.180	0.180	0.181	0.180	7.09
24)P	1,1-Dichloroethan	0.441	0.445	0.373	0.434	0.398	0.388	0.410	0.413	6.80
25)	Vinyl acetate	0.534	0.522	0.460	0.536	0.501	0.492	0.580	0.518	7.36
26)	Di-isopropyl ethe	0.810	0.816	0.710	0.819	0.805	0.799	0.891	0.807	6.54
27)	Chloroprene	0.383	0.405	0.388	0.394	0.352	0.330	0.426	0.382	8.43
28)	Ethyl tert-butyl	0.794	0.813	0.731	0.848	0.766	0.773	0.828	0.793	5.07
29)	2,2-Dichloropropa	0.382	0.392	0.329	0.353	0.264	0.287	0.379	0.341	14.67
30)	cis-1,2-Dichloroe	0.307	0.292	0.267	0.295	0.273	0.266	0.287	0.284	5.45
31)	Ethyl Acetate	0.310	0.297	0.256	0.295	0.284	0.286	0.229	0.279	10.03
32)	2-Butanone	0.310	0.297	0.256	0.295	0.284	0.286	0.229	0.279	10.03
33)	Propionitrile	0.019	0.021	0.022	0.023	0.024	0.023	0.019	0.021	8.86
34)	Methacrylonitrile	0.209	0.173	0.168	0.177	0.163	0.164	0.260	0.188	18.90
35)	Bromochloromethan	0.147	0.143	0.136	0.154	0.139	0.140	0.125	0.141	6.37
36)C	Chloroform	0.605	0.573	0.515	0.590	0.490	0.508	0.547	0.547	8.08
37)	Tetrahydrofuran	0.119	0.088	0.125	0.145	0.119	0.120	0.175	0.127	21.05

---- Linear regression ---- Coefficient = 0.9980
Response Ratio = 0.00368 + 0.11862 *A

38)	1,1,1-Trichloroet	0.519	0.502	0.451	0.501	0.411	0.428	0.487	0.471	8.76
39)S	Dibromofluorometh	0.290	0.308	0.272	0.313	0.281	0.280	0.331	0.296	7.21
40)	Cyclohexane	0.312	0.289	0.261	0.272	0.289	0.295	0.268	0.284	6.33
41)	Isobutyl Alcohol	0.001	0.003	0.004	0.003	0.004	0.003	0.007	0.004	45.97

---- Linear regression ---- Coefficient = 0.9990
Response Ratio = -0.00176 + 0.00358 *A

42)	n-Butyl Alcohol	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.002	29.20

---- Linear regression ---- Coefficient = 0.9995
Response Ratio = -0.00186 + 0.00219 *A

43)	1,1-Dichloroprope	0.373	0.369	0.335	0.360	0.332	0.343	0.347	0.351	4.65
44)	Carbon Tetrachlor	0.448	0.444	0.392	0.430	0.362	0.372	0.427	0.411	8.51
45)S	1,2-Dichloroethan	0.427	0.448	0.378	0.439	0.363	0.369	0.492	0.417	11.54
46)	Benzene	0.855	0.853	0.755	0.821	0.810	0.837	0.811	0.820	4.18
47)	1,2-Dichloroethan	0.500	0.516	0.445	0.507	0.416	0.435	0.512	0.476	8.85
48)	tert-amyl methyl	0.783	0.754	0.672	0.759	0.708	0.730	0.825	0.747	6.66
49)	Trichloroethene	0.415	0.337	0.263	0.289	0.270	0.273	0.561	0.344	31.94

---- Linear regression ---- Coefficient = 0.9998
Response Ratio = 0.00617 + 0.26928 *A

50)	Methylcyclohexane	0.266	0.289	0.242	0.252	0.266	0.276	0.259	0.264	5.81
51)	Methyl Methacryla	0.215	0.211	0.209	0.227	0.208	0.215	0.248	0.219	6.56
52)C	1,2-Dichloropropa	0.209	0.204	0.180	0.202	0.209	0.208	0.201	0.202	5.08
53)	Dibromomethane	0.199	0.209	0.180	0.206	0.186	0.191	0.189	0.194	5.49
54)	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002		0.002	13.52
55)	Bromodichlorometh	0.484	0.500	0.429	0.496	0.432	0.448	0.515	0.472	7.42
56)	2-Nitropropane	0.116	0.103	0.095	0.103	0.081	0.087	0.112	0.100	12.73
57)	2-Chloroethyl vin	0.096	0.093	0.091	0.110	0.117	0.118	0.103	0.104	10.58
58)	1-Bromo-2-Chloroe	0.306	0.289	0.257	0.293	0.300	0.306	0.312	0.295	6.22
59)	4-Methyl-2-pentan	0.209	0.193	0.167	0.192	0.189	0.195	0.221	0.195	8.57
60)	cis-1,3-Dichlorop	0.447	0.436	0.397	0.459	0.440	0.454	0.453	0.441	4.77
61) I	Chlorobenzene-d5	----------ISTD----------								
62)S	Toluene-d8	1.178	1.230	1.023	1.139	1.217	1.154	1.449	1.199	10.81
63)C	Toluene	1.404	1.380	1.192	1.307	1.357	1.342	1.404	1.341	5.53
64)	Ethyl Methacrylat	0.405	0.412	0.424	0.438	0.456	0.440	0.418	0.428	4.17
65)	trans-1,3-Dichlor	0.598	0.589	0.527	0.601	0.580	0.588	0.589	0.582	4.34
66)	1,1,2-Trichloroet	0.262	0.253	0.221	0.247	0.256	0.257	0.261	0.251	5.62
67)	Tetrachloroethene	0.454	0.447	0.386	0.403	0.411	0.410	0.441	0.422	6.08
68)	2-hexanone	0.202	0.184	0.167	0.192	0.192	0.198	0.210	0.192	7.18
69)	1,3-Dichloropropa	0.592	0.563	0.506	0.553	0.568	0.576	0.594	0.564	5.29

Initial Calibration Summary

Job Number: T39423 **Sample:** VF3547-ICC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F019686.D
Project: Vertellus-Provo

```
 70)  Dibromochlorometh 0.439 0.442 0.396 0.455 0.436 0.436 0.426 0.433   4.26
 71)  1,2-Dibromoethane 0.369 0.352 0.320 0.355 0.363 0.362 0.347 0.353   4.59
 72)  1-Chlorohexane    0.494 0.466 0.408 0.467 0.483 0.489 0.484 0.470   6.23
 73)P Chlorobenzene     0.905 0.902 0.792 0.890 0.888 0.893 0.959 0.890   5.59
 74)  1,1,1,2-Tetrachlo 0.417 0.407 0.345 0.400 0.367 0.370 0.388 0.385   6.65
 75)C Ethylbenzene      1.828 1.723 1.455 1.674 1.587 1.610 1.813 1.670   7.92
 76)  m,p-Xylene        1.397 1.341 1.150 1.311 1.218 1.250 1.329 1.285   6.53
 77)  o-Xylene          1.445 1.372 1.183 1.374 1.287 1.313 1.384 1.337   6.36
 78)  Styrene           0.951 0.957 0.850 0.985 0.989 1.005 0.918 0.951   5.60
 79)P Bromoform         0.333 0.299 0.283 0.329 0.304 0.305 0.302 0.308   5.74

 80) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 81)  Isopropylbenzene  2.385 2.318 1.989 2.162 2.329 2.406 2.256 2.264   6.45
 82)  Cyclohexanone     0.024 0.019 0.015 0.018 0.019 0.020 0.014 0.019  18.27
             ---- Linear regression ----  Coefficient =  0.9986
               Response Ratio = -0.00109 + 0.01929 *A

 83)S 4-Bromofluorobenz 0.981 0.968 0.811 0.925 0.956 0.957 1.350 0.993  16.91
             ---- Linear regression ----  Coefficient =  0.9997
               Response Ratio = -0.01304 + 0.95902 *A

 84)  Bromobenzene      0.882 0.820 0.729 0.783 0.805 0.833 0.814 0.809   5.81
 85)P 1,1,2,2-Tetrachlo 0.668 0.585 0.528 0.596 0.628 0.654 0.672 0.619   8.50
 86)  Trans-1,4-Dichlor 0.235 0.216 0.208 0.242 0.229 0.237 0.237 0.229   5.48
 87)  1,2,3-Trichloropr 0.254 0.228 0.212 0.229 0.231 0.240 0.257 0.236   6.71
 88)  n-Propylbenzene   3.311 3.163 2.714 2.992 3.085 3.232 3.226 3.103   6.48
 89)  2-Chlorotoluene   2.495 2.397 1.997 2.208 2.210 2.298 2.540 2.306   8.17
 90)  4-Chlorotoluene   2.348 2.138 1.868 2.078 2.102 2.181 2.367 2.155   7.90
 91)  1,3,5-Trimethylbe 2.203 2.104 1.819 1.999 2.063 2.128 2.057 2.053   5.91
 92)  Pentachloroethane 0.550 0.507 0.524 0.513 0.516 0.510 0.533 0.522   2.91
 93)  sec-Butylbenzene  2.424 2.274 1.961 2.173 2.232 2.346 2.443 2.264   7.33
 94)  1,3-Dichlorobenze 1.392 1.292 1.118 1.249 1.242 1.300 1.255 1.264   6.50
 95)  4-Isopropyltoluen 1.984 1.869 1.641 1.773 1.815 1.900 1.906 1.841   6.04
 96)  1,4-Dichlorobenze 1.392 1.361 1.177 1.318 1.281 1.329 1.255 1.302   5.50
 97)  tert-Butylbenzene 0.523 0.462 0.363 0.395 0.379 0.398 0.657 0.454  23.19
             ---- Linear regression ----  Coefficient =  0.9994
               Response Ratio = 0.00764 + 0.38073 *A

 98)  n-Butylbenzene    1.868 1.758 1.533 1.805 1.688 1.785 2.041 1.782   8.75
 99)  1,2-Dichlorobenze 1.255 1.189 1.039 1.235 1.139 1.192 1.254 1.186   6.50
100)  1,2,4-Trimethylbe 2.292 2.265 1.941 2.152 2.184 2.278 2.250 2.195   5.60
101)  Hexachloroethane  0.466 0.401 0.400 0.507 0.373 0.384 0.523 0.436  14.10
102)  1,2-Dibromo-3-Chl 0.155 0.115 0.099 0.129 0.096 0.100 0.150 0.121  20.48
             ---- Linear regression ----  Coefficient =  0.9955
               Response Ratio = 0.00644 + 0.09523 *A

103)  1,2,4-Trichlorobe 0.619 0.553 0.542 0.727 0.563 0.586 0.802 0.627  15.83
             ---- Linear regression ----  Coefficient =  0.9964
               Response Ratio = 0.02420 + 0.56362 *A

104)  Hexachlorobutadie 0.365 0.293 0.264 0.327 0.244 0.267 0.518 0.325  28.98
             ---- Linear regression ----  Coefficient =  0.9950
               Response Ratio = 0.01874 + 0.24470 *A

105)  Naphthalene       0.896 0.741 0.758 1.076 0.822 0.858 1.378 0.933  24.20
             ---- Linear regression ----  Coefficient =  0.9957
               Response Ratio = 0.03437 + 0.82381 *A

106)  1,2,3-Trichlorobe 0.420 0.324 0.301 0.404 0.305 0.317 0.633 0.386  30.77
             ---- Linear regression ----  Coefficient =  0.9959
```

Initial Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3547-ICC3547
Lab FileID: F019686.D

```
                Response Ratio = 0.01703 + 0.30448 *A


107) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
108)H TPH-GRO (C6-C10)  0.865 1.185 2.152 2.237 4.987 4.850 0.117 2.342  81.40
              ---- Linear regression ----  Coefficient =  0.9567
                Response Ratio = -79.72504 + 5.16970 *A

 ---------------------------------------------------------------------------
 (#) = Out of Range

          VF3547AP9G.M        Tue Sep 15 16:56:11 2009
```

Initial Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3548-ICC3547
Lab FileID: F019686.D

Response Factor Report GC/MS F

```
Method       : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title        : SW846 8260B and EPA 624
Last Update  : Tue Sep 15 16:21:04 2009
Response via : Initial Calibration

Calibration Files
1   =F019683.D   2   =F019684.D   3   =F019685.D   4   =F019686.D
7   =F019688.D   5   =F019687.D   8   =F019682.D

   Compound             1     2     3     4     7     5     8     Avg   %RSD
-------------------------------------------------------------------------------

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.274 0.296 0.255 0.348 0.253 0.248 0.291 0.281  12.57
3)P Chloromethane     0.234 0.229 0.183 0.347 0.247 0.235 0.356 0.261  24.68
           ---- Linear regression ----  Coefficient =  0.9906
             Response Ratio = 0.00644 + 0.24473 *A

4)C Vinyl Chloride    0.199 0.211 0.168 0.280 0.207 0.194 0.233 0.213  16.63
           ---- Linear regression ----  Coefficient =  0.9924
             Response Ratio = 0.00509 + 0.20439 *A

5)  Bromomethane      0.221 0.195 0.162 0.189 0.155 0.149 0.243 0.188  18.89
           ---- Linear regression ----  Coefficient =  0.9976
             Response Ratio = 0.00600 + 0.15275 *A

6)  Chloroethane      0.132 0.132 0.117 0.138 0.134 0.124 0.157 0.134   9.39
7)  Trichlorofluorome 0.455 0.440 0.401 0.450 0.412 0.386 0.493 0.434   8.47
8)  Acrolein          0.023 0.023 0.019 0.020 0.022 0.022 0.022 0.022   6.74
9)  Ethyl Ether       0.201 0.179 0.160 0.183 0.174 0.169 0.195 0.180   7.90
10)C 1,1-Dichloroethen 0.391 0.358 0.315 0.354 0.341 0.328 0.365 0.350   7.11
11)  Freon 113        0.249 0.256 0.218 0.221 0.221 0.205 0.207 0.225   8.65
12)  Acetone          0.120 0.082 0.062 0.071 0.062 0.064 0.171 0.090  45.59
           ---- Linear regression ----  Coefficient =  0.9994
             Response Ratio = 0.01355 + 0.06190 *A

13)  Iodomethane      0.406 0.398 0.370 0.428 0.363 0.370 0.382 0.388   6.05
14)  Methyl acetate   0.170 0.146 0.125 0.144 0.145 0.145 0.217 0.156  19.26
           ---- Linear regression ----  Coefficient =  0.9998
             Response Ratio = -0.00620 + 0.14558 *A

15)  Allyl Chloride   0.288 0.331 0.329 0.234 0.189 0.227       0.266  22.03
           ---- Quadratic regression ----  Coefficient =  0.9980
             Response Ratio = 0.00907 + 0.25660 *A + -0.01757 *A^2

16)  Carbon Disulfide 0.710 0.714 0.626 0.691 0.700 0.673 0.719 0.690   4.73
17)  Acetonitrile     0.103 0.157 0.041 0.041 0.059 0.050 0.175 0.090  63.38
           ---- Quadratic regression ----  Coefficient =  0.9977
             Response Ratio = 0.01091 + 0.03549 *A + 0.00225 *A^2

18)  Methylene Chlorid 0.392 0.323 0.275 0.307 0.290 0.291 0.499 0.340  23.58
           ---- Linear regression ----  Coefficient =  0.9998
             Response Ratio = 0.00382 + 0.28922 *A

19)  Tert Butyl Alcoho 0.022 0.020 0.018 0.022 0.019 0.020 0.024 0.021   9.78
20)  trans-1,2-Dichlor 0.341 0.338 0.306 0.340 0.320 0.316 0.325 0.327   4.18
21)  Acrylonitrile    0.060 0.057 0.052 0.055 0.063 0.062 0.061 0.058   6.89
22)  Methyl Tert Butyl 0.808 0.744 0.671 0.772 0.686 0.690 0.810 0.740   7.93
```

Initial Calibration Summary

Job Number: T39423 **Sample:** VF3548-ICC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F019686.D
Project: Vertellus-Provo

23)	Hexane	0.194	0.197	0.165	0.165	0.180	0.180	0.181	0.180	7.09
24)P	1,1-Dichloroethan	0.441	0.445	0.373	0.434	0.398	0.388	0.410	0.413	6.80
25)	Vinyl acetate	0.534	0.522	0.460	0.536	0.501	0.492	0.580	0.518	7.36
26)	Di-isopropyl ethe	0.810	0.816	0.710	0.819	0.805	0.799	0.891	0.807	6.54
27)	Chloroprene	0.383	0.405	0.388	0.394	0.352	0.330	0.426	0.382	8.43
28)	Ethyl tert-butyl	0.794	0.813	0.731	0.848	0.766	0.773	0.828	0.793	5.07
29)	2,2-Dichloropropa	0.382	0.392	0.329	0.353	0.264	0.287	0.379	0.341	14.67
30)	cis-1,2-Dichloroe	0.307	0.292	0.267	0.295	0.273	0.266	0.287	0.284	5.45
31)	Ethyl Acetate	0.310	0.297	0.256	0.295	0.284	0.286	0.229	0.279	10.03
32)	2-Butanone	0.310	0.297	0.256	0.295	0.284	0.286	0.229	0.279	10.03
33)	Propionitrile	0.019	0.021	0.022	0.023	0.024	0.023	0.019	0.021	8.86
34)	Methacrylonitrile	0.209	0.173	0.168	0.177	0.163	0.164	0.260	0.188	18.90
35)	Bromochloromethan	0.147	0.143	0.136	0.154	0.139	0.140	0.125	0.141	6.37
36)C	Chloroform	0.605	0.573	0.515	0.590	0.490	0.508	0.547	0.547	8.08
37)	Tetrahydrofuran	0.119	0.088	0.125	0.145	0.119	0.120	0.175	0.127	21.05

---- Linear regression ---- Coefficient = 0.9980
Response Ratio = 0.00368 + 0.11862 *A

38)	1,1,1-Trichloroet	0.519	0.502	0.451	0.501	0.411	0.428	0.487	0.471	8.76
39)S	Dibromofluorometh	0.290	0.308	0.272	0.313	0.281	0.280	0.331	0.296	7.21
40)	Cyclohexane	0.312	0.289	0.261	0.272	0.289	0.295	0.268	0.284	6.33
41)	Isobutyl Alcohol	0.001	0.003	0.004	0.003	0.004	0.003	0.007	0.004	45.97

---- Linear regression ---- Coefficient = 0.9990
Response Ratio = -0.00176 + 0.00358 *A

42)	n-Butyl Alcohol	0.001	0.001	0.002	0.002	0.002	0.002	0.001	0.002	29.20

---- Linear regression ---- Coefficient = 0.9995
Response Ratio = -0.00186 + 0.00219 *A

43)	1,1-Dichloroprope	0.373	0.369	0.335	0.360	0.332	0.343	0.347	0.351	4.65
44)	Carbon Tetrachlor	0.448	0.444	0.392	0.430	0.362	0.372	0.427	0.411	8.51
45)S	1,2-Dichloroethan	0.427	0.448	0.378	0.439	0.363	0.369	0.492	0.417	11.54
46)	Benzene	0.855	0.853	0.755	0.821	0.810	0.837	0.811	0.820	4.18
47)	1,2-Dichloroethan	0.500	0.516	0.445	0.507	0.416	0.435	0.512	0.476	8.85
48)	tert-amyl methyl	0.783	0.754	0.672	0.759	0.708	0.730	0.825	0.747	6.66
49)	Trichloroethene	0.415	0.337	0.263	0.289	0.270	0.273	0.561	0.344	31.94

---- Linear regression ---- Coefficient = 0.9998
Response Ratio = 0.00617 + 0.26928 *A

50)	Methylcyclohexane	0.266	0.289	0.242	0.252	0.266	0.276	0.259	0.264	5.81
51)	Methyl Methacryla	0.215	0.211	0.209	0.227	0.208	0.215	0.248	0.219	6.56
52)C	1,2-Dichloropropa	0.209	0.204	0.180	0.202	0.209	0.208	0.201	0.202	5.08
53)	Dibromomethane	0.199	0.209	0.180	0.206	0.186	0.191	0.189	0.194	5.49
54)	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002		0.002	13.52
55)	Bromodichlorometh	0.484	0.500	0.429	0.496	0.432	0.448	0.515	0.472	7.42
56)	2-Nitropropane	0.116	0.103	0.095	0.103	0.081	0.087	0.112	0.100	12.73
57)	2-Chloroethyl vin	0.096	0.093	0.091	0.110	0.117	0.118	0.103	0.104	10.58
58)	1-Bromo-2-Chloroe	0.306	0.289	0.257	0.293	0.300	0.306	0.312	0.295	6.22
59)	4-Methyl-2-pentan	0.209	0.193	0.167	0.192	0.189	0.195	0.221	0.195	8.57
60)	cis-1,3-Dichlorop	0.447	0.436	0.397	0.459	0.440	0.454	0.453	0.441	4.77
61) I	Chlorobenzene-d5	----------ISTD----------								
62)S	Toluene-d8	1.178	1.230	1.023	1.139	1.217	1.154	1.449	1.199	10.81
63)C	Toluene	1.404	1.380	1.192	1.307	1.357	1.342	1.404	1.341	5.53
64)	Ethyl Methacrylat	0.405	0.412	0.424	0.438	0.456	0.440	0.418	0.428	4.17
65)	trans-1,3-Dichlor	0.598	0.589	0.527	0.601	0.580	0.588	0.589	0.582	4.34
66)	1,1,2-Trichloroet	0.262	0.253	0.221	0.247	0.256	0.257	0.261	0.251	5.62
67)	Tetrachloroethene	0.454	0.447	0.386	0.403	0.411	0.410	0.441	0.422	6.08
68)	2-hexanone	0.202	0.184	0.167	0.192	0.192	0.198	0.210	0.192	7.18
69)	1,3-Dichloropropa	0.592	0.563	0.506	0.553	0.568	0.576	0.594	0.564	5.29

Initial Calibration Summary

Job Number: T39423 **Sample:** VF3548-ICC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F019686.D
Project: Vertellus-Provo

```
 70)  Dibromochlorometh 0.439 0.442 0.396 0.455 0.436 0.436 0.426 0.433   4.26
 71)  1,2-Dibromoethane 0.369 0.352 0.320 0.355 0.363 0.362 0.347 0.353   4.59
 72)  1-Chlorohexane    0.494 0.466 0.408 0.467 0.483 0.489 0.484 0.470   6.23
 73)P Chlorobenzene     0.905 0.902 0.792 0.890 0.888 0.893 0.959 0.890   5.59
 74)  1,1,1,2-Tetrachlo 0.417 0.407 0.345 0.400 0.367 0.370 0.388 0.385   6.65
 75)C Ethylbenzene      1.828 1.723 1.455 1.674 1.587 1.610 1.813 1.670   7.92
 76)  m,p-Xylene        1.397 1.341 1.150 1.311 1.218 1.250 1.329 1.285   6.53
 77)  o-Xylene          1.445 1.372 1.183 1.374 1.287 1.313 1.384 1.337   6.36
 78)  Styrene           0.951 0.957 0.850 0.985 0.989 1.005 0.918 0.951   5.60
 79)P Bromoform         0.333 0.299 0.283 0.329 0.304 0.305 0.302 0.308   5.74

 80) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 81)  Isopropylbenzene  2.385 2.318 1.989 2.162 2.329 2.406 2.256 2.264   6.45
 82)  Cyclohexanone     0.024 0.019 0.015 0.018 0.019 0.020 0.014 0.019  18.27
             ---- Linear regression ----  Coefficient =  0.9986
               Response Ratio = -0.00109 + 0.01929 *A

 83)S 4-Bromofluorobenz 0.981 0.968 0.811 0.925 0.956 0.957 1.350 0.993  16.91
             ---- Linear regression ----  Coefficient =  0.9997
               Response Ratio = -0.01304 + 0.95902 *A

 84)  Bromobenzene      0.882 0.820 0.729 0.783 0.805 0.833 0.814 0.809   5.81
 85)P 1,1,2,2-Tetrachlo 0.668 0.585 0.528 0.596 0.628 0.654 0.672 0.619   8.50
 86)  Trans-1,4-Dichlor 0.235 0.216 0.208 0.242 0.229 0.237 0.237 0.229   5.48
 87)  1,2,3-Trichloropr 0.254 0.228 0.212 0.229 0.231 0.240 0.257 0.236   6.71
 88)  n-Propylbenzene   3.311 3.163 2.714 2.992 3.085 3.232 3.226 3.103   6.48
 89)  2-Chlorotoluene   2.495 2.397 1.997 2.208 2.210 2.298 2.540 2.306   8.17
 90)  4-Chlorotoluene   2.348 2.138 1.868 2.078 2.102 2.181 2.367 2.155   7.90
 91)  1,3,5-Trimethylbe 2.203 2.104 1.819 1.999 2.063 2.128 2.057 2.053   5.91
 92)  Pentachloroethane 0.550 0.507 0.524 0.513 0.516 0.510 0.533 0.522   2.91
 93)  sec-Butylbenzene  2.424 2.274 1.961 2.173 2.232 2.346 2.443 2.264   7.33
 94)  1,3-Dichlorobenze 1.392 1.292 1.118 1.249 1.242 1.300 1.255 1.264   6.50
 95)  4-Isopropyltoluen 1.984 1.869 1.641 1.773 1.815 1.900 1.906 1.841   6.04
 96)  1,4-Dichlorobenze 1.392 1.361 1.177 1.318 1.281 1.329 1.255 1.302   5.50
 97)  tert-Butylbenzene 0.523 0.462 0.363 0.395 0.379 0.398 0.657 0.454  23.19
             ---- Linear regression ----  Coefficient =  0.9994
               Response Ratio = 0.00764 + 0.38073 *A

 98)  n-Butylbenzene    1.868 1.758 1.533 1.805 1.688 1.785 2.041 1.782   8.75
 99)  1,2-Dichlorobenze 1.255 1.189 1.039 1.235 1.139 1.192 1.254 1.186   6.50
100)  1,2,4-Trimethylbe 2.292 2.265 1.941 2.152 2.184 2.278 2.250 2.195   5.60
101)  Hexachloroethane  0.466 0.401 0.400 0.507 0.373 0.384 0.523 0.436  14.10
102)  1,2-Dibromo-3-Chl 0.155 0.115 0.099 0.129 0.096 0.100 0.150 0.121  20.48
             ---- Linear regression ----  Coefficient =  0.9955
               Response Ratio = 0.00644 + 0.09523 *A

103)  1,2,4-Trichlorobe 0.619 0.553 0.542 0.727 0.563 0.586 0.802 0.627  15.83
             ---- Linear regression ----  Coefficient =  0.9964
               Response Ratio = 0.02420 + 0.56362 *A

104)  Hexachlorobutadie 0.365 0.293 0.264 0.327 0.244 0.267 0.518 0.325  28.98
             ---- Linear regression ----  Coefficient =  0.9950
               Response Ratio = 0.01874 + 0.24470 *A

105)  Naphthalene       0.896 0.741 0.758 1.076 0.822 0.858 1.378 0.933  24.20
             ---- Linear regression ----  Coefficient =  0.9957
               Response Ratio = 0.03437 + 0.82381 *A

106)  1,2,3-Trichlorobe 0.420 0.324 0.301 0.404 0.305 0.317 0.633 0.386  30.77
             ---- Linear regression ----  Coefficient =  0.9959
```

Initial Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3548-ICC3547
Lab FileID: F019686.D

```
                Response Ratio = 0.01703 + 0.30448 *A


107) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
108)H TPH-GRO (C6-C10)  0.865 1.185 2.152 2.237 4.987 4.850 0.117 2.342  81.40
              ---- Linear regression ----  Coefficient =  0.9567
                Response Ratio = -79.72504 + 5.16970 *A

 ---------------------------------------------------------------------------
 (#) = Out of Range

          VF3547AP9G.M        Tue Sep 15 16:56:11 2009
```

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3547-ICV3547
Lab FileID: F019690.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 16:21:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	144	0.00	10.67
2	Dichlorodifluoromethane	0.281	0.176	37.4#	73	0.00	4.67
	----------	Amount	Calc.	%Drift		----------	
3 P	Chloromethane	40.000	35.598	11.0	94	0.00	5.06
4 C	Vinyl Chloride	40.000	36.210	9.5	98	0.00	5.28
5	Bromomethane	40.000	38.529	3.7	118	0.01	5.88
	----------	AvgRF	CCRF	%Dev		----------	
6	Chloroethane	0.134	0.116	13.4	121	0.01	6.03
7	Trichlorofluoromethane	0.434	0.341	21.4#	109	0.00	6.37
8	Acrolein	0.022	0.023	-4.5	165	0.00	8.21
9	Ethyl Ether	0.180	0.152	15.6	119	0.00	6.67
10 C	1,1-Dichloroethene	0.350	0.347	0.9	141	0.00	7.12
11	Freon 113	0.225	0.225	0.0	147	0.00	7.01
	----------	Amount	Calc.	%Drift		----------	
12	Acetone	200.000	197.040	1.5	131	0.00	7.15
	----------	AvgRF	CCRF	%Dev		----------	
13	Iodomethane	0.388	0.417	-7.5	140	0.00	7.43
	----------	Amount	Calc.	%Drift		----------	
14	Methyl acetate	200.000	198.504	0.7	143	0.00	7.51
15	Allyl Chloride	40.000	35.771	10.6	141	0.00	7.56
	----------	AvgRF	CCRF	%Dev		----------	
16	Carbon Disulfide	0.690	0.757	-9.7	158	0.00	7.55
	----------	Amount	Calc.	%Drift		----------	
17	Acetonitrile	100.000	207.907	-107.9#	350	0.07	7.62
18	Methylene Chloride	40.000	39.626	0.9	136	0.00	7.79
	----------	AvgRF	CCRF	%Dev		----------	
19	Tert Butyl Alcohol	0.021	0.019	9.5	127	0.01	7.71
20	trans-1,2-Dichloroethene	0.327	0.336	-2.8	142	0.00	8.05
21	Acrylonitrile	0.058	0.063	-8.6	165	0.00	8.11
22	Methyl Tert Butyl Ether	0.740	0.704	4.9	131	0.00	7.94
23	Hexane	0.180	0.196	-8.9	172	0.01	8.22
24 P	1,1-Dichloroethane	0.413	0.398	3.6	132	0.00	8.61
25	Vinyl acetate	0.518	0.506	2.3	136	0.00	8.52
26	Di-isopropyl ether	0.807	0.806	0.1	142	0.00	8.44

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3547-ICV3547
Lab FileID: F019690.D

27		Chloroprene	0.382	0.382	0.0	140	0.01	8.68
28		Ethyl tert-butyl ether	0.793	0.756	4.7	128	0.00	8.88
29		2,2-Dichloropropane	0.341	0.292	14.4	119	0.00	9.30
30		cis-1,2-Dichloroethene	0.284	0.269	5.3	131	0.01	9.33
31		Ethyl Acetate	0.279	0.280	-0.4	136	0.00	9.21
32		2-Butanone	0.279	0.280	-0.4	136	0.00	9.21
33		Propionitrile	0.021	0.044	-109.5#	279#	0.00	9.45
34		Methacrylonitrile	0.188	1.337	-611.2#	1085#	0.00	9.60
35		Bromochloromethane	0.141	0.139	1.4	130	0.00	9.64
36	C	Chloroform	0.547	0.502	8.2	122	0.00	9.65
		----------	Amount	Calc.	%Drift	----------		
37		Tetrahydrofuran	40.000	39.305	1.7	120	0.00	9.21
		----------	AvgRF	CCRF	%Dev	----------		
38		1,1,1-Trichloroethane	0.471	0.419	11.0	120	0.01	9.92
39	S	Dibromofluoromethane	0.296	0.327	-10.5	151	0.00	9.87
40		Cyclohexane	0.284	0.307	-8.1	163	0.00	9.93
		----------	Amount	Calc.	%Drift	----------		
41		Isobutyl Alcohol	800.000	1485.968	-85.7#	284	0.01	10.02
42		n-Butyl Alcohol	800.000	1436.926	-79.6#	283	0.00	10.81
		----------	AvgRF	CCRF	%Dev	----------		
43		1,1-Dichloropropene	0.351	0.335	4.6	134	0.00	10.08
44		Carbon Tetrachloride	0.411	0.363	11.7	121	0.00	10.08
45	S	1,2-Dichloroethane-d4	0.417	0.431	-3.4	141	0.00	10.34
46		Benzene	0.820	0.832	-1.5	146	0.01	10.37
47		1,2-Dichloroethane	0.476	0.424	10.9	120	0.00	10.44
48		tert-amyl methyl ether	0.747	0.699	6.4	133	0.00	10.31
		----------	Amount	Calc.	%Drift	----------		
49		Trichloroethene	40.000	39.230	1.9	135	0.00	11.12
		----------	AvgRF	CCRF	%Dev	----------		
50		Methylcyclohexane	0.264	0.278	-5.3	159	0.00	11.30
51		Methyl Methacrylate	0.219	0.210	4.1	133	0.01	11.37
52	C	1,2-Dichloropropane	0.202	0.208	-3.0	148	0.01	11.47
53		Dibromomethane	0.194	0.185	4.6	129	0.00	11.66
54		1,4-Dioxane	0.002	0.002	0.0	146	0.00	11.54
55		Bromodichloromethane	0.472	0.415	12.1	120	0.00	11.77
56		2-Nitropropane	0.100	0.091	9.0	127	0.00	12.09
57		2-Chloroethyl vinyl ether	0.104	0.108	-3.8	141	0.00	12.01
58		1-Bromo-2-Chloroethane	0.295	0.304	-3.1	149	0.00	12.26
59		4-Methyl-2-pentanone	0.195	0.195	0.0	146	0.00	12.39
60		cis-1,3-Dichloropropene	0.441	0.436	1.1	137	0.00	12.31
61	I	Chlorobenzene-d5	1.000	1.000	0.0	140	0.00	14.64
62	S	Toluene-d8	1.199	1.411	-17.7	173	0.00	12.62
63	C	Toluene	1.341	1.348	-0.5	144	0.01	12.72
64		Ethyl Methacrylate	0.428	0.407	4.9	130	0.01	12.90
65		trans-1,3-Dichloropropene	0.582	0.593	-1.9	138	0.00	13.02
66		1,1,2-Trichloroethane	0.251	0.246	2.0	139	0.01	13.30
67		Tetrachloroethene	0.422	0.397	5.9	138	0.00	13.44
68		2-hexanone	0.192	0.188	2.1	137	0.01	13.46
69		1,3-Dichloropropane	0.564	0.541	4.1	137	0.00	13.55
70		Dibromochloromethane	0.433	0.409	5.5	126	0.00	13.86
71		1,2-Dibromoethane	0.353	0.351	0.6	139	0.00	14.10
72		1-Chlorohexane	0.470	0.478	-1.7	143	0.00	14.43
73	P	Chlorobenzene	0.890	0.890	0.0	140	0.01	14.69

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3547-ICV3547
Lab FileID: F019690.D

74		1,1,1,2-Tetrachloroethane	0.385	0.359	6.8	126	0.00	14.76
75	C	Ethylbenzene	1.670	1.583	5.2	132	0.00	14.70
76		m,p-Xylene	1.285	1.243	3.3	133	0.01	14.85
77		o-Xylene	1.337	1.347	-0.7	137	0.00	15.43
78		Styrene	0.951	0.971	-2.1	138	0.00	15.45
79	P	Bromoform	0.308	0.297	3.6	126	0.00	15.85
80	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	131	0.00	17.83
81		Isopropylbenzene	2.264	2.384	-5.3	145	0.01	15.86
		----------	Amount	Calc.	%Drift	----------		
82		Cyclohexanone	200.000	353.971	-77.0#	243	0.01	16.19
83	S	4-Bromofluorobenzene	40.000	45.977	-14.9	154	0.01	16.20
		----------	AvgRF	CCRF	%Dev	----------		
84		Bromobenzene	0.809	0.800	1.1	134	0.01	16.47
85	P	1,1,2,2-Tetrachloroethane	0.619	0.616	0.5	136	0.00	16.33
86		Trans-1,4-Dichloro-2-Bute	0.229	0.222	3.1	121	0.00	16.40
87		1,2,3-Trichloropropane	0.236	0.206	12.7	118	0.00	16.46
88		n-Propylbenzene	3.103	3.105	-0.1	136	0.00	16.40
89		2-Chlorotoluene	2.306	2.220	3.7	132	0.01	16.66
90		4-Chlorotoluene	2.155	2.096	2.7	132	0.00	16.80
91		1,3,5-Trimethylbenzene	2.053	2.061	-0.4	135	0.00	16.60
92		Pentachloroethane	0.522	0.460	11.9	118	0.00	17.27
93		sec-Butylbenzene	2.264	2.278	-0.6	137	0.01	17.40
94		1,3-Dichlorobenzene	1.264	1.252	0.9	131	0.00	17.74
95		4-Isopropyltoluene	1.841	1.809	1.7	134	0.00	17.55
96		1,4-Dichlorobenzene	1.302	1.290	0.9	128	0.00	17.87
		----------	Amount	Calc.	%Drift	----------		
97		tert-Butylbenzene	40.000	39.698	0.8	129	0.00	17.39
		----------	AvgRF	CCRF	%Dev	----------		
98		n-Butylbenzene	1.782	1.672	6.2	121	0.00	18.15
99		1,2-Dichlorobenzene	1.186	1.152	2.9	122	0.01	18.46
100		1,2,4-Trimethylbenzene	2.195	2.135	2.7	130	0.01	17.17
101		Hexachloroethane	0.436	0.423	3.0	109	0.01	18.78
		----------	Amount	Calc.	%Drift	----------		
102		1,2-Dibromo-3-Chloropropa	40.000	37.188	7.0	98	0.01	19.61
103		1,2,4-Trichlorobenzene	40.000	39.020	2.4	105	0.00	20.82
104		Hexachlorobutadiene	40.000	41.517	-3.8	111	0.00	20.90
105		Naphthalene	40.000	40.053	-0.1	106	0.01	21.29
106		1,2,3-Trichlorobenzene	40.000	41.433	-3.6	109	0.00	21.69
		----------	AvgRF	CCRF	%Dev	----------		
107	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	131	0.00	17.83
		----------	Amount	Calc.	%Drift	----------		
108	H	TPH-GRO (C6-C10)	4000.000	2610.987	34.7#	139	0.00	12.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F019686.D VF3547AP9G.M Tue Sep 15 16:55:53 2009

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3548-ICV3547
Lab FileID: F019690.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 16:21:04 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	144	0.00	10.67
2	Dichlorodifluoromethane	0.281	0.176	37.4#	73	0.00	4.67
		Amount	Calc.	%Drift			
3 P	Chloromethane	40.000	35.598	11.0	94	0.00	5.06
4 C	Vinyl Chloride	40.000	36.210	9.5	98	0.00	5.28
5	Bromomethane	40.000	38.529	3.7	118	0.01	5.88
		AvgRF	CCRF	%Dev			
6	Chloroethane	0.134	0.116	13.4	121	0.01	6.03
7	Trichlorofluoromethane	0.434	0.341	21.4#	109	0.00	6.37
8	Acrolein	0.022	0.023	-4.5	165	0.00	8.21
9	Ethyl Ether	0.180	0.152	15.6	119	0.00	6.67
10 C	1,1-Dichloroethene	0.350	0.347	0.9	141	0.00	7.12
11	Freon 113	0.225	0.225	0.0	147	0.00	7.01
		Amount	Calc.	%Drift			
12	Acetone	200.000	197.040	1.5	131	0.00	7.15
		AvgRF	CCRF	%Dev			
13	Iodomethane	0.388	0.417	-7.5	140	0.00	7.43
		Amount	Calc.	%Drift			
14	Methyl acetate	200.000	198.504	0.7	143	0.00	7.51
15	Allyl Chloride	40.000	35.771	10.6	141	0.00	7.56
		AvgRF	CCRF	%Dev			
16	Carbon Disulfide	0.690	0.757	-9.7	158	0.00	7.55
		Amount	Calc.	%Drift			
17	Acetonitrile	100.000	207.907	-107.9#	350	0.07	7.62
18	Methylene Chloride	40.000	39.626	0.9	136	0.00	7.79
		AvgRF	CCRF	%Dev			
19	Tert Butyl Alcohol	0.021	0.019	9.5	127	0.01	7.71
20	trans-1,2-Dichloroethene	0.327	0.336	-2.8	142	0.00	8.05
21	Acrylonitrile	0.058	0.063	-8.6	165	0.00	8.11
22	Methyl Tert Butyl Ether	0.740	0.704	4.9	131	0.00	7.94
23	Hexane	0.180	0.196	-8.9	172	0.01	8.22
24 P	1,1-Dichloroethane	0.413	0.398	3.6	132	0.00	8.61
25	Vinyl acetate	0.518	0.506	2.3	136	0.00	8.52
26	Di-isopropyl ether	0.807	0.806	0.1	142	0.00	8.44

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3548-ICV3547
Lab FileID: F019690.D

27		Chloroprene	0.382	0.382	0.0	140	0.01	8.68
28		Ethyl tert-butyl ether	0.793	0.756	4.7	128	0.00	8.88
29		2,2-Dichloropropane	0.341	0.292	14.4	119	0.00	9.30
30		cis-1,2-Dichloroethene	0.284	0.269	5.3	131	0.01	9.33
31		Ethyl Acetate	0.279	0.280	-0.4	136	0.00	9.21
32		2-Butanone	0.279	0.280	-0.4	136	0.00	9.21
33		Propionitrile	0.021	0.044	-109.5#	279#	0.00	9.45
34		Methacrylonitrile	0.188	1.337	-611.2#	1085#	0.00	9.60
35		Bromochloromethane	0.141	0.139	1.4	130	0.00	9.64
36	C	Chloroform	0.547	0.502	8.2	122	0.00	9.65
		----------	Amount	Calc.	%Drift	----------		
37		Tetrahydrofuran	40.000	39.305	1.7	120	0.00	9.21
		----------	AvgRF	CCRF	%Dev	----------		
38		1,1,1-Trichloroethane	0.471	0.419	11.0	120	0.01	9.92
39	S	Dibromofluoromethane	0.296	0.327	-10.5	151	0.00	9.87
40		Cyclohexane	0.284	0.307	-8.1	163	0.00	9.93
		----------	Amount	Calc.	%Drift	----------		
41		Isobutyl Alcohol	800.000	1485.968	-85.7#	284	0.01	10.02
42		n-Butyl Alcohol	800.000	1436.926	-79.6#	283	0.00	10.81
		----------	AvgRF	CCRF	%Dev	----------		
43		1,1-Dichloropropene	0.351	0.335	4.6	134	0.00	10.08
44		Carbon Tetrachloride	0.411	0.363	11.7	121	0.00	10.08
45	S	1,2-Dichloroethane-d4	0.417	0.431	-3.4	141	0.00	10.34
46		Benzene	0.820	0.832	-1.5	146	0.01	10.37
47		1,2-Dichloroethane	0.476	0.424	10.9	120	0.00	10.44
48		tert-amyl methyl ether	0.747	0.699	6.4	133	0.00	10.31
		----------	Amount	Calc.	%Drift	----------		
49		Trichloroethene	40.000	39.230	1.9	135	0.00	11.12
		----------	AvgRF	CCRF	%Dev	----------		
50		Methylcyclohexane	0.264	0.278	-5.3	159	0.00	11.30
51		Methyl Methacrylate	0.219	0.210	4.1	133	0.01	11.37
52	C	1,2-Dichloropropane	0.202	0.208	-3.0	148	0.01	11.47
53		Dibromomethane	0.194	0.185	4.6	129	0.00	11.66
54		1,4-Dioxane	0.002	0.002	0.0	146	0.00	11.54
55		Bromodichloromethane	0.472	0.415	12.1	120	0.00	11.77
56		2-Nitropropane	0.100	0.091	9.0	127	0.00	12.09
57		2-Chloroethyl vinyl ether	0.104	0.108	-3.8	141	0.00	12.01
58		1-Bromo-2-Chloroethane	0.295	0.304	-3.1	149	0.00	12.26
59		4-Methyl-2-pentanone	0.195	0.195	0.0	146	0.00	12.39
60		cis-1,3-Dichloropropene	0.441	0.436	1.1	137	0.00	12.31
61	I	Chlorobenzene-d5	1.000	1.000	0.0	140	0.00	14.64
62	S	Toluene-d8	1.199	1.411	-17.7	173	0.00	12.62
63	C	Toluene	1.341	1.348	-0.5	144	0.01	12.72
64		Ethyl Methacrylate	0.428	0.407	4.9	130	0.01	12.90
65		trans-1,3-Dichloropropene	0.582	0.593	-1.9	138	0.00	13.02
66		1,1,2-Trichloroethane	0.251	0.246	2.0	139	0.01	13.30
67		Tetrachloroethene	0.422	0.397	5.9	138	0.00	13.44
68		2-hexanone	0.192	0.188	2.1	137	0.01	13.46
69		1,3-Dichloropropane	0.564	0.541	4.1	137	0.00	13.55
70		Dibromochloromethane	0.433	0.409	5.5	126	0.00	13.86
71		1,2-Dibromoethane	0.353	0.351	0.6	139	0.00	14.10
72		1-Chlorohexane	0.470	0.478	-1.7	143	0.00	14.43
73	P	Chlorobenzene	0.890	0.890	0.0	140	0.01	14.69

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3548-ICV3547
Lab FileID: F019690.D

74		1,1,1,2-Tetrachloroethane	0.385	0.359	6.8	126	0.00	14.76
75	C	Ethylbenzene	1.670	1.583	5.2	132	0.00	14.70
76		m,p-Xylene	1.285	1.243	3.3	133	0.01	14.85
77		o-Xylene	1.337	1.347	-0.7	137	0.00	15.43
78		Styrene	0.951	0.971	-2.1	138	0.00	15.45
79	P	Bromoform	0.308	0.297	3.6	126	0.00	15.85
80	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	131	0.00	17.83
81		Isopropylbenzene	2.264	2.384	-5.3	145	0.01	15.86
		----------	Amount	Calc.	%Drift	----------		
82		Cyclohexanone	200.000	353.971	-77.0#	243	0.01	16.19
83	S	4-Bromofluorobenzene	40.000	45.977	-14.9	154	0.01	16.20
		----------	AvgRF	CCRF	%Dev	----------		
84		Bromobenzene	0.809	0.800	1.1	134	0.01	16.47
85	P	1,1,2,2-Tetrachloroethane	0.619	0.616	0.5	136	0.00	16.33
86		Trans-1,4-Dichloro-2-Bute	0.229	0.222	3.1	121	0.00	16.40
87		1,2,3-Trichloropropane	0.236	0.206	12.7	118	0.00	16.46
88		n-Propylbenzene	3.103	3.105	-0.1	136	0.00	16.40
89		2-Chlorotoluene	2.306	2.220	3.7	132	0.01	16.66
90		4-Chlorotoluene	2.155	2.096	2.7	132	0.00	16.80
91		1,3,5-Trimethylbenzene	2.053	2.061	-0.4	135	0.00	16.60
92		Pentachloroethane	0.522	0.460	11.9	118	0.00	17.27
93		sec-Butylbenzene	2.264	2.278	-0.6	137	0.01	17.40
94		1,3-Dichlorobenzene	1.264	1.252	0.9	131	0.00	17.74
95		4-Isopropyltoluene	1.841	1.809	1.7	134	0.00	17.55
96		1,4-Dichlorobenzene	1.302	1.290	0.9	128	0.00	17.87
		----------	Amount	Calc.	%Drift	----------		
97		tert-Butylbenzene	40.000	39.698	0.8	129	0.00	17.39
		----------	AvgRF	CCRF	%Dev	----------		
98		n-Butylbenzene	1.782	1.672	6.2	121	0.00	18.15
99		1,2-Dichlorobenzene	1.186	1.152	2.9	122	0.01	18.46
100		1,2,4-Trimethylbenzene	2.195	2.135	2.7	130	0.01	17.17
101		Hexachloroethane	0.436	0.423	3.0	109	0.01	18.78
		----------	Amount	Calc.	%Drift	----------		
102		1,2-Dibromo-3-Chloropropa	40.000	37.188	7.0	98	0.01	19.61
103		1,2,4-Trichlorobenzene	40.000	39.020	2.4	105	0.00	20.82
104		Hexachlorobutadiene	40.000	41.517	-3.8	111	0.00	20.90
105		Naphthalene	40.000	40.053	-0.1	106	0.01	21.29
106		1,2,3-Trichlorobenzene	40.000	41.433	-3.6	109	0.00	21.69
		----------	AvgRF	CCRF	%Dev	----------		
107	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	131	0.00	17.83
		----------	Amount	Calc.	%Drift	----------		
108	H	TPH-GRO (C6-C10)	4000.000	2610.987	34.7#	139	0.00	12.39

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F019686.D VF3547AP9G.M Tue Sep 15 16:55:53 2009

Continuing Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3596-CC3547
Lab FileID: F020655.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\2\DATA\VF3596\F020655.D Vial: 3
Acq On : 9 Oct 2009 11:52 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7097,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	105	0.01	10.63
2		Dichlorodifluoromethane	0.281	0.268	4.6	81	0.03	4.65
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	30.391	24.0#	59	0.00	5.01
4	C	Vinyl Chloride	40.000	37.137	7.2	73	0.00	5.23
5		Bromomethane	40.000	48.477	-21.2#	107	0.01	5.83
			AvgRF	CCRF	%Dev			
6		Chloroethane	0.134	0.143	-6.7	109	0.01	5.98
7		Trichlorofluoromethane	0.434	0.410	5.5	96	0.03	6.35
8		Acrolein	0.022	0.023	-4.5	119	0.02	8.18
9		Ethyl Ether	0.180	0.172	4.4	98	0.01	6.63
10	C	1,1-Dichloroethene	0.350	0.408	-16.6	121	0.00	7.07
11		Freon 113	0.225	0.258	-14.7	123	0.01	6.97
			Amount	Calc.	%Drift			
12		Acetone	200.000	189.284	5.4	92	0.01	7.11
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.388	0.465	-19.8	114	0.00	7.38
			Amount	Calc.	%Drift			
14		Methyl acetate	200.000	195.455	2.3	102	0.01	7.47
15		Allyl Chloride	40.000	43.280	-8.2	122	0.02	7.53
			AvgRF	CCRF	%Dev			
16		Carbon Disulfide	0.690	0.745	-8.0	113	0.02	7.52
			Amount	Calc.	%Drift			
17		Acetonitrile	100.000	120.267	-20.3#	141	0.02	7.53
18		Methylene Chloride	40.000	44.374	-10.9	111	0.00	7.74
			AvgRF	CCRF	%Dev			
19		Tert Butyl Alcohol	0.021	0.019	9.5	92	0.02	7.67
20		trans-1,2-Dichloroethene	0.327	0.365	-11.6	112	0.01	8.01
21		Acrylonitrile	0.058	0.053	8.6	102	0.01	8.07
22		Methyl Tert Butyl Ether	0.740	0.767	-3.6	104	0.01	7.90
23		Hexane	0.180	0.186	-3.3	118	0.02	8.18
24	P	1,1-Dichloroethane	0.413	0.435	-5.3	105	0.02	8.58
25		Vinyl acetate	0.518	0.522	-0.8	102	0.02	8.49
26		Di-isopropyl ether	0.807	0.800	0.9	102	0.01	8.40

Continuing Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3596-CC3547
Lab FileID: F020655.D

27		Chloroprene	0.382	0.393	-2.9	105	0.02	8.64
28		Ethyl tert-butyl ether	0.793	0.845	-6.6	104	0.01	8.84
29		2,2-Dichloropropane	0.341	0.327	4.1	97	0.01	9.26
30		cis-1,2-Dichloroethene	0.284	0.287	-1.1	102	0.02	9.29
31		Ethyl Acetate	0.279	0.275	1.4	98	0.01	9.17
32		2-Butanone	0.279	0.275	1.4	98	0.01	9.17
33		Propionitrile	0.021	0.022	-4.8	102	0.01	9.41
34		Methacrylonitrile	0.188	0.170	9.6	101	0.01	9.56
35		Bromochloromethane	0.141	0.156	-10.6	106	0.01	9.60
36	C	Chloroform	0.547	0.566	-3.5	100	0.01	9.61
		----------	Amount	Calc.	%Drift	----------		
37		Tetrahydrofuran	40.000	41.495	-3.7	92	0.01	9.17
		----------	AvgRF	CCRF	%Dev	----------		
38		1,1,1-Trichloroethane	0.471	0.481	-2.1	101	0.01	9.87
39	S	Dibromofluoromethane	0.296	0.290	2.0	97	0.01	9.83
40		Cyclohexane	0.284	0.295	-3.9	114	0.02	9.90
		----------	Amount	Calc.	%Drift	----------		
41		Isobutyl Alcohol	800.000	573.553	28.3#	78	0.01	9.97
42		n-Butyl Alcohol	800.000	558.943	30.1#	76	0.01	10.77
		----------	AvgRF	CCRF	%Dev	----------		
43		1,1-Dichloropropene	0.351	0.384	-9.4	112	0.01	10.04
44		Carbon Tetrachloride	0.411	0.431	-4.9	105	0.02	10.05
		----------	Amount	Calc.	%Drift	----------		
45	S	1,2-Dichloroethane-d4	40.000	40.239	-0.6	91	0.02	10.31
		----------	AvgRF	CCRF	%Dev	----------		
46		Benzene	0.820	0.893	-8.9	114	0.02	10.33
47		1,2-Dichloroethane	0.476	0.474	0.4	98	0.01	10.40
48		tert-amyl methyl ether	0.747	0.791	-5.9	109	0.01	10.27
		----------	Amount	Calc.	%Drift	----------		
49		Trichloroethene	40.000	43.328	-8.3	109	0.01	11.08
		----------	AvgRF	CCRF	%Dev	----------		
50		Methylcyclohexane	0.264	0.275	-4.2	114	0.01	11.26
51		Methyl Methacrylate	0.219	0.224	-2.3	104	0.02	11.33
52	C	1,2-Dichloropropane	0.202	0.214	-5.9	111	0.02	11.43
53		Dibromomethane	0.194	0.205	-5.7	104	0.01	11.62
54		1,4-Dioxane	0.002	0.002	0.0	99	0.02	11.51
55		Bromodichloromethane	0.472	0.466	1.3	99	0.01	11.73
56		2-Nitropropane	0.100	0.091	9.0	92	0.01	12.05
57		2-Chloroethyl vinyl ether	0.104	0.125	-20.2#	120	0.02	11.98
58		1-Bromo-2-Chloroethane	0.295	0.217	26.4#	78	0.01	12.22
59		4-Methyl-2-pentanone	0.195	0.181	7.2	99	0.01	12.35
60		cis-1,3-Dichloropropene	0.441	0.454	-2.9	104	0.02	12.28
61	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.01	14.60
		----------	Amount	Calc.	%Drift	----------		
62	S	Toluene-d8	40.000	35.864	10.3	103	0.02	12.59
		----------	AvgRF	CCRF	%Dev	----------		
63	C	Toluene	1.341	1.307	2.5	112	0.02	12.68
64		Ethyl Methacrylate	0.428	0.419	2.1	107	0.02	12.86
65		trans-1,3-Dichloropropene	0.582	0.544	6.5	101	0.01	12.98

Continuing Calibration Summary

Job Number: T39423 **Sample:** VF3596-CC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F020655.D
Project: Vertellus-Provo

66		1,1,2-Trichloroethane	0.251	0.240	4.4	109	0.02	13.26
67		Tetrachloroethene	0.422	0.403	4.5	112	0.02	13.41
68		2-hexanone	0.192	0.163	15.1	95	0.02	13.42
69		1,3-Dichloropropane	0.564	0.530	6.0	107	0.02	13.52
70		Dibromochloromethane	0.433	0.402	7.2	99	0.01	13.82
71		1,2-Dibromoethane	0.353	0.334	5.4	105	0.01	14.06
72		1-Chlorohexane	0.470	0.443	5.7	106	0.02	14.40
73	P	Chlorobenzene	0.890	0.859	3.5	108	0.02	14.65
74		1,1,1,2-Tetrachloroethane	0.385	0.360	6.5	101	0.01	14.72
75	C	Ethylbenzene	1.670	1.554	6.9	104	0.01	14.66
76		m,p-Xylene	1.285	1.199	6.7	102	0.02	14.81
77		o-Xylene	1.337	1.258	5.9	102	0.01	15.39
78		Styrene	0.951	0.947	0.4	107	0.02	15.42
79	P	Bromoform	0.308	0.274	11.0	93	0.02	15.82
80	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.01	17.79
81		Isopropylbenzene	2.264	2.006	11.4	98	0.02	15.82
		----------	Amount	Calc.	%Drift		----------	
82		Cyclohexanone	200.000	180.364	9.8	99	0.02	16.16
83	S	4-Bromofluorobenzene	40.000	34.763	13.1	93	0.02	16.16
		----------	AvgRF	CCRF	%Dev		----------	
84		Bromobenzene	0.809	0.764	5.6	103	0.02	16.43
85	P	1,1,2,2-Tetrachloroethane	0.619	0.511	17.4	90	0.02	16.30
86		Trans-1,4-Dichloro-2-Bute	0.229	0.163	28.8#	71	0.02	16.37
87		1,2,3-Trichloropropane	0.236	0.202	14.4	93	0.02	16.43
88		n-Propylbenzene	3.103	2.717	12.4	95	0.01	16.36
89		2-Chlorotoluene	2.306	2.003	13.1	95	0.02	16.62
90		4-Chlorotoluene	2.155	1.900	11.8	96	0.01	16.76
91		1,3,5-Trimethylbenzene	2.053	1.803	12.2	95	0.02	16.57
92		Pentachloroethane	0.522	0.497	4.8	102	0.01	17.23
93		sec-Butylbenzene	2.264	1.944	14.1	94	0.02	17.36
94		1,3-Dichlorobenzene	1.264	1.149	9.1	97	0.01	17.70
95		4-Isopropyltoluene	1.841	1.557	15.4	92	0.01	17.51
96		1,4-Dichlorobenzene	1.302	1.208	7.2	96	0.01	17.83
		----------	Amount	Calc.	%Drift		----------	
97		tert-Butylbenzene	40.000	33.537	16.2	88	0.01	17.35
		----------	AvgRF	CCRF	%Dev		----------	
98		n-Butylbenzene	1.782	1.465	17.8	85	0.01	18.11
99		1,2-Dichlorobenzene	1.186	1.039	12.4	88	0.01	18.41
100		1,2,4-Trimethylbenzene	2.195	1.852	15.6	90	0.02	17.13
101		Hexachloroethane	0.436	0.352	19.3	73	0.01	18.73
		----------	Amount	Calc.	%Drift		----------	
102		1,2-Dibromo-3-Chloropropa	40.000	20.039	49.9#	46	0.01	19.56
103		1,2,4-Trichlorobenzene	40.000	14.736	63.2#	34	0.01	20.78
104		Hexachlorobutadiene	40.000	27.348	31.6#	61	0.01	20.86
105		Naphthalene	40.000	17.498	56.3#	39	0.01	21.24
106		1,2,3-Trichlorobenzene	40.000	10.457	73.9#	26	0.01	21.65
		----------	AvgRF	CCRF	%Dev		----------	
107	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	105	0.01	17.79
		----------	Amount	Calc.	%Drift		----------	
108	H	TPH-GRO (C6-C10)	4000.000	2496.926	37.6#	105	0.00	12.34

Continuing Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3596-CC3547
Lab FileID: F020655.D

```
(#) = Out of Range                SPCC's out = 0  CCC's out = 0
 F019686.D  VF3547AP9G.M       Mon Oct 12 11:54:25 2009
```

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020670.D Vial: 18
Acq On : 9 Oct 2009 7:33 pm Operator: AnjanaP
Sample : t39423-1 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:09 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.62	96	1022704	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.59	117	758108	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.77	152	398264	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.77	152	398264	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.80	113	298820	49.28	ug/L	-0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 98.56%			
45) 1,2-Dichloroethane-d4	10.29	65	394334	51.25	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 102.50%			
62) Toluene-d8	12.57	98	789062	44.26	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 88.52%			
83) 4-Bromofluorobenzene	16.15	95	337508	44.86	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.72%			

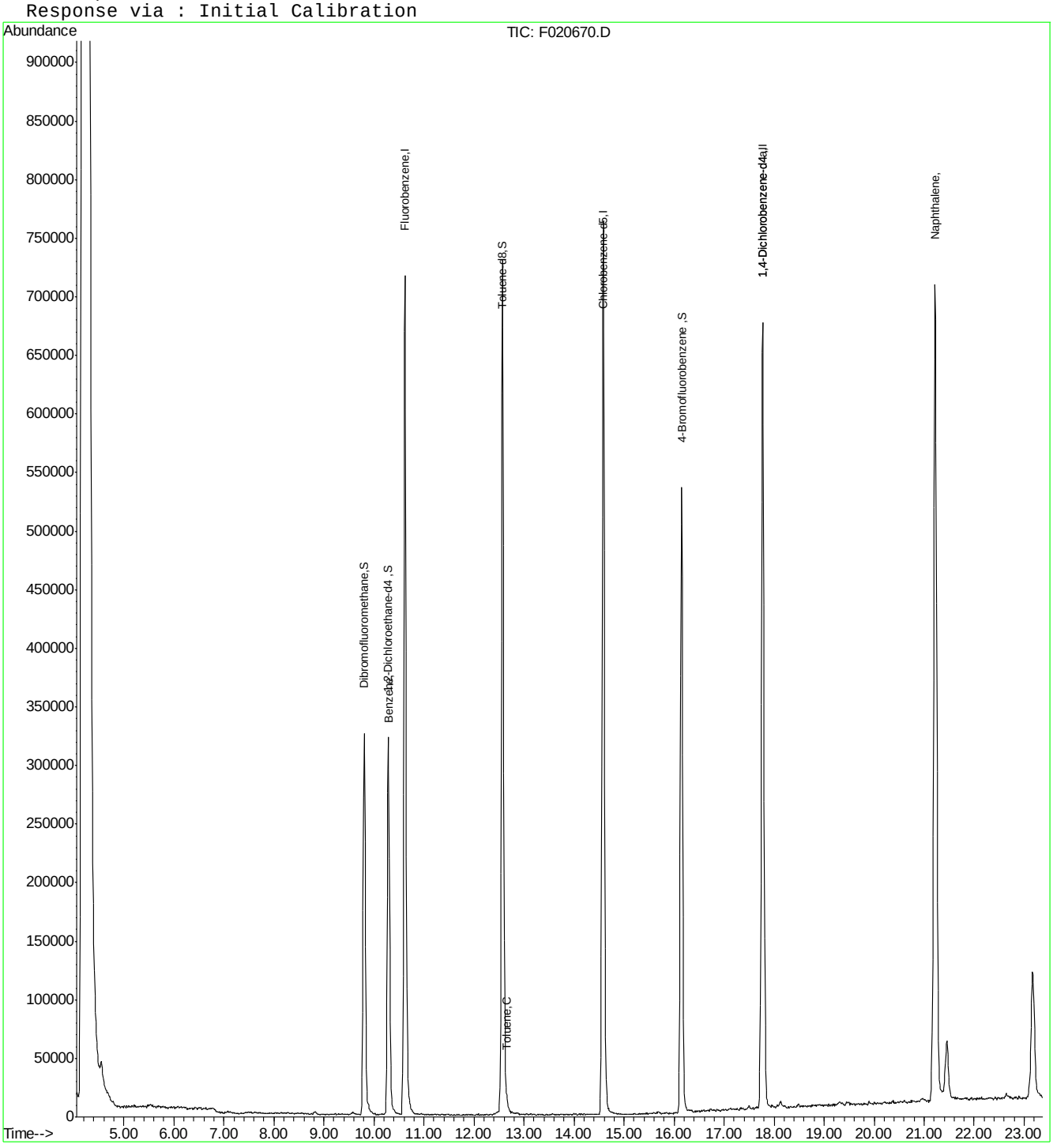
Target Compounds						Qvalue
46) Benzene	10.31	78	25689	1.53	ug/L #	1
63) Toluene	12.67	91	8565	0.42	ug/L	100
105) Naphthalene	21.22	128	1390059	209.75	ug/L	100

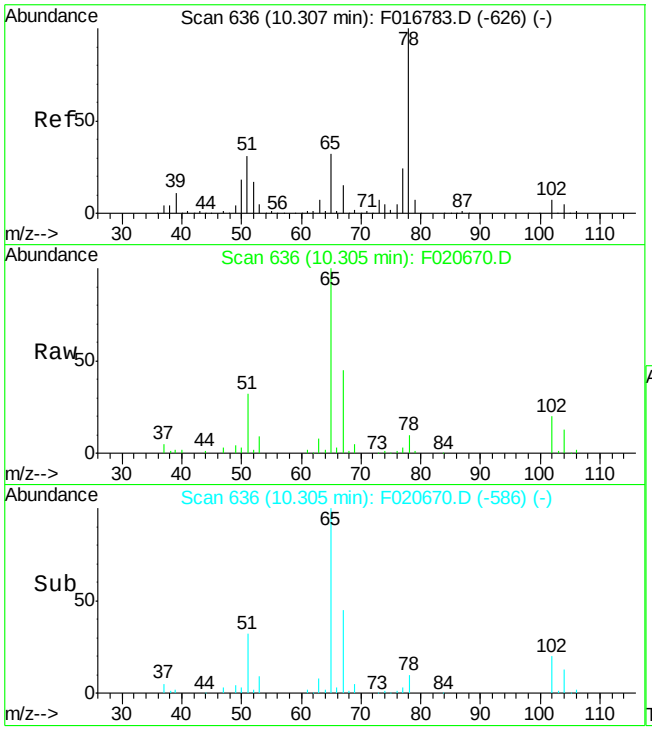
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020670.D Vial: 18
Acq On : 9 Oct 2009 7:33 pm Operator: AnjanaP
Sample : t39423-1 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:10 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration

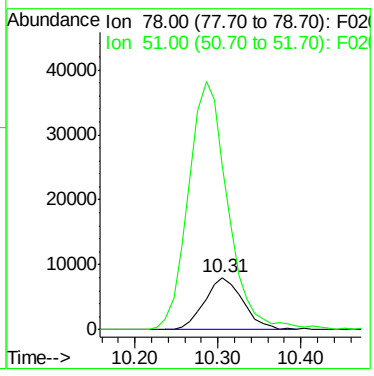


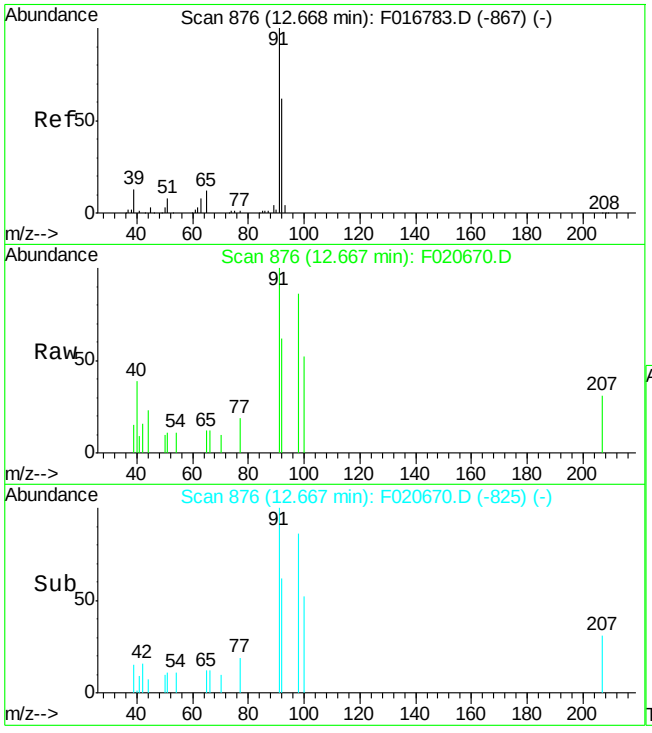


#46
Benzene
Concen: 1.53 ug/L
RT: 10.31 min Scan# 636
Delta R.T. -0.00 min
Lab File: F020670.D
Acq: 9 Oct 2009 7:33 pm

Tgt Ion: 78 Resp: 25689

Ion	Ratio	Lower	Upper
78	100		
51	306.4	4.0	64.0#

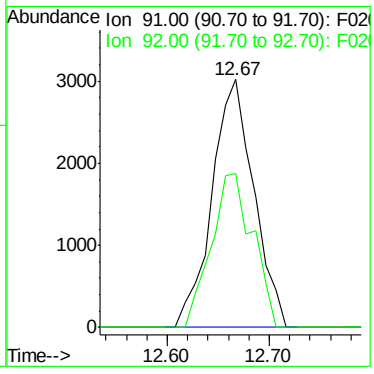


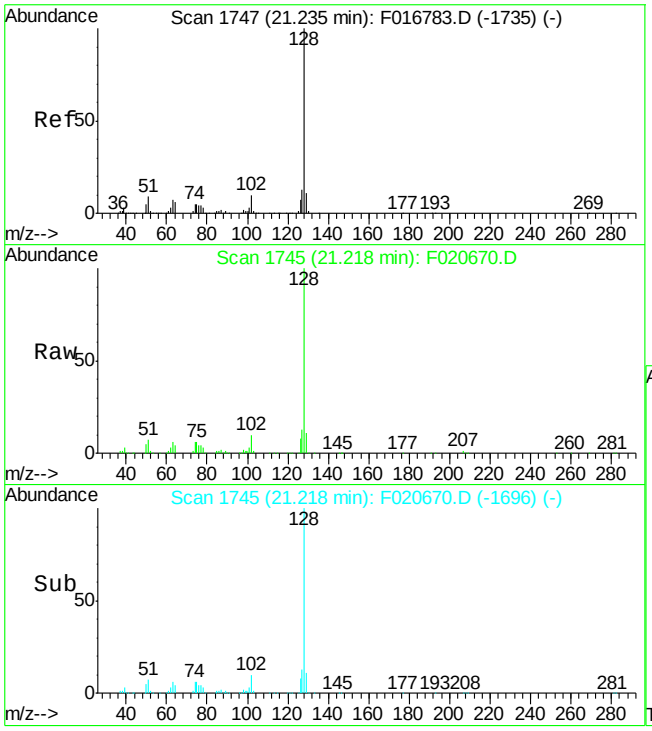


#63
Toluene
Concen: 0.42 ug/L
RT: 12.67 min Scan# 876
Delta R.T. 0.01 min
Lab File: F020670.D
Acq: 9 Oct 2009 7:33 pm

Tgt Ion: 91 Resp: 8565

Ion	Ratio	Lower	Upper
91	100		
92	62.1	31.7	91.7

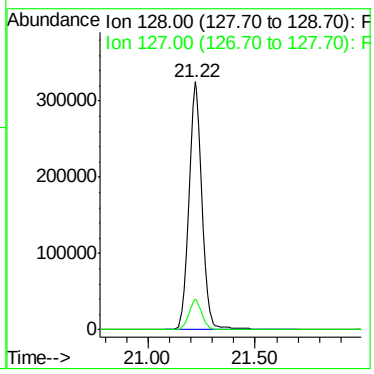




#105
Naphthalene
Concen: 209.75 ug/L
RT: 21.22 min Scan# 1745
Delta R.T. -0.01 min
Lab File: F020670.D
Acq: 9 Oct 2009 7:33 pm

Tgt Ion:128 Resp: 1390059

Ion	Ratio	Lower	Upper
128	100		
127	12.6	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020671.D Vial: 19
Acq On : 9 Oct 2009 8:03 pm Operator: AnjanaP
Sample : t39423-2 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:10 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	898376	50.00	ug/L	0.00
61) Chlorobenzene-d5	14.58	117	708176	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.77	152	397185	50.00	ug/L	0.00
107) 1,4-Dichlorobenzene-d4a	17.77	152	397185	50.00	ug/kg	0.00

System Monitoring Compounds

39) Dibromofluoromethane	9.80	113	265233	49.79	ug/L	-0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 99.58%			
45) 1,2-Dichloroethane-d4	10.28	65	340732	50.38	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 100.76%			
62) Toluene-d8	12.56	98	745539	44.75	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 89.50%			
83) 4-Bromofluorobenzene	16.14	95	331129	44.15	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 88.30%			

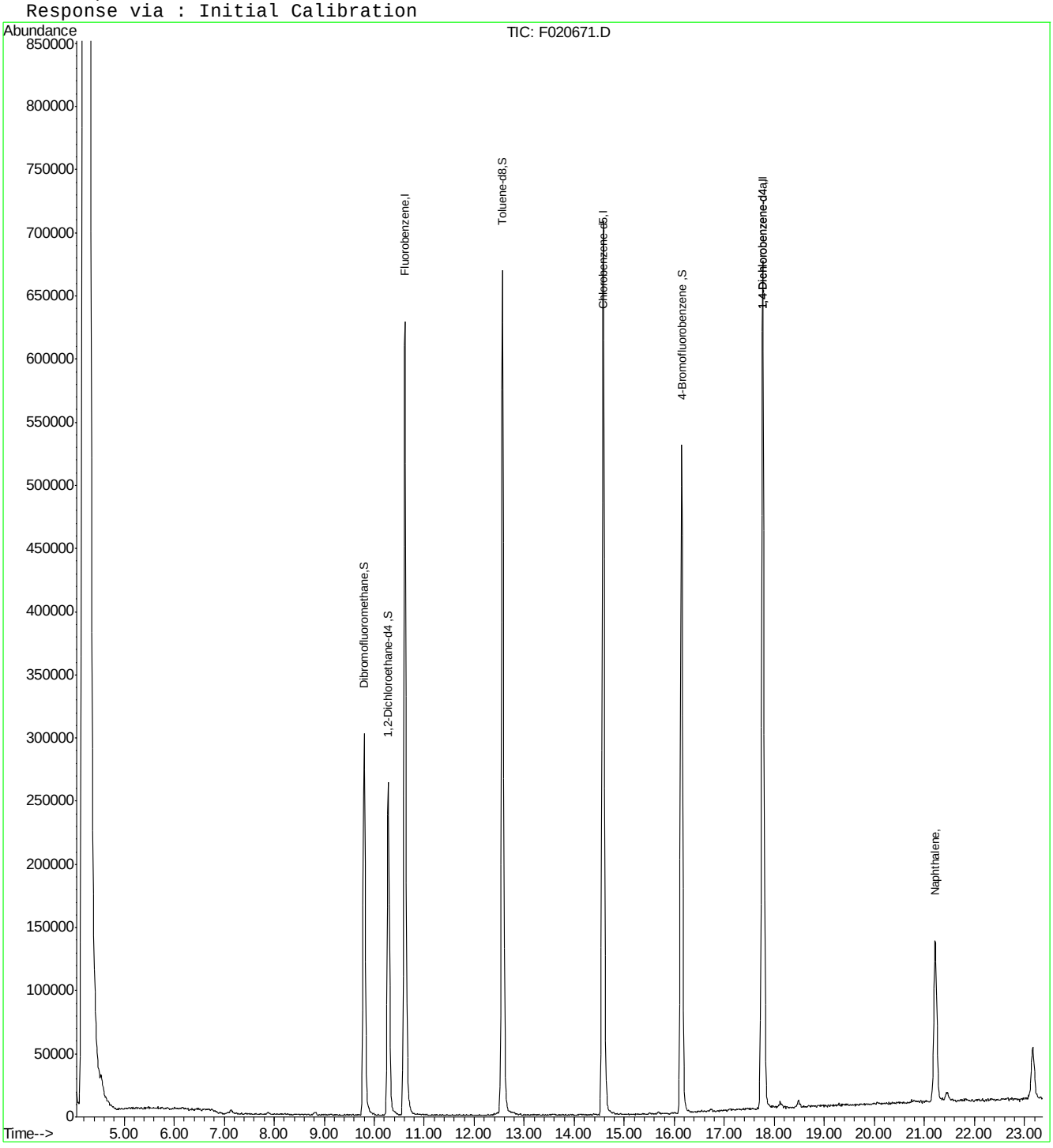
Target Compounds						Qvalue
105) Naphthalene	21.21	128	262091	37.96	ug/L	99

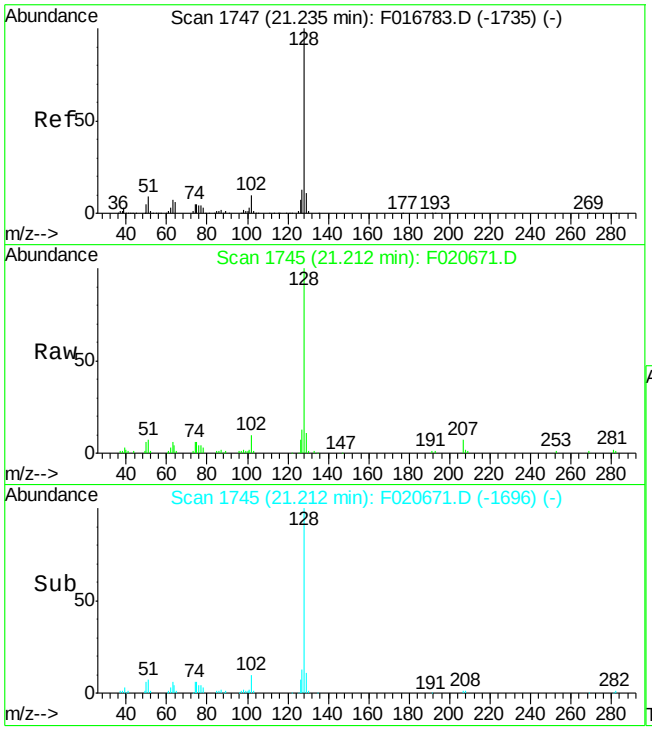
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020671.D VF3547AP9G.M Mon Oct 12 11:46:22 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020671.D Vial: 19
Acq On : 9 Oct 2009 8:03 pm Operator: AnjanaP
Sample : t39423-2 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:10 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration

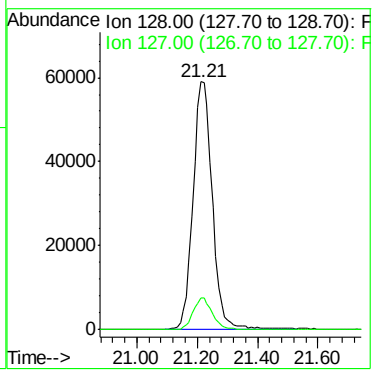




#105
Naphthalene
Concen: 37.96 ug/L
RT: 21.21 min Scan# 1745
Delta R.T. -0.02 min
Lab File: F020671.D
Acq: 9 Oct 2009 8:03 pm

Tgt Ion:128 Resp: 262091

Ion	Ratio	Lower	Upper
128	100		
127	12.7	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020672.D Vial: 20
Acq On : 9 Oct 2009 8:33 pm Operator: AnjanaP
Sample : t39423-3 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:12 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	862083	50.00	ug/L	-0.01
61) Chlorobenzene-d5	14.58	117	670611	50.00	ug/L	-0.01
80) 1,4-Dichlorobenzene-d4	17.76	152	338729	50.00	ug/L	-0.01
107) 1,4-Dichlorobenzene-d4a	17.76	152	338729	50.00	ug/kg	-0.01

System Monitoring Compounds

39) Dibromofluoromethane	9.80	113	257974	50.47	ug/L	-0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 100.94%			
45) 1,2-Dichloroethane-d4	10.28	65	352039	54.40	ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 108.80%			
62) Toluene-d8	12.57	98	699778	44.37	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 88.74%			
83) 4-Bromofluorobenzene	16.14	95	296005	46.24	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 92.48%			

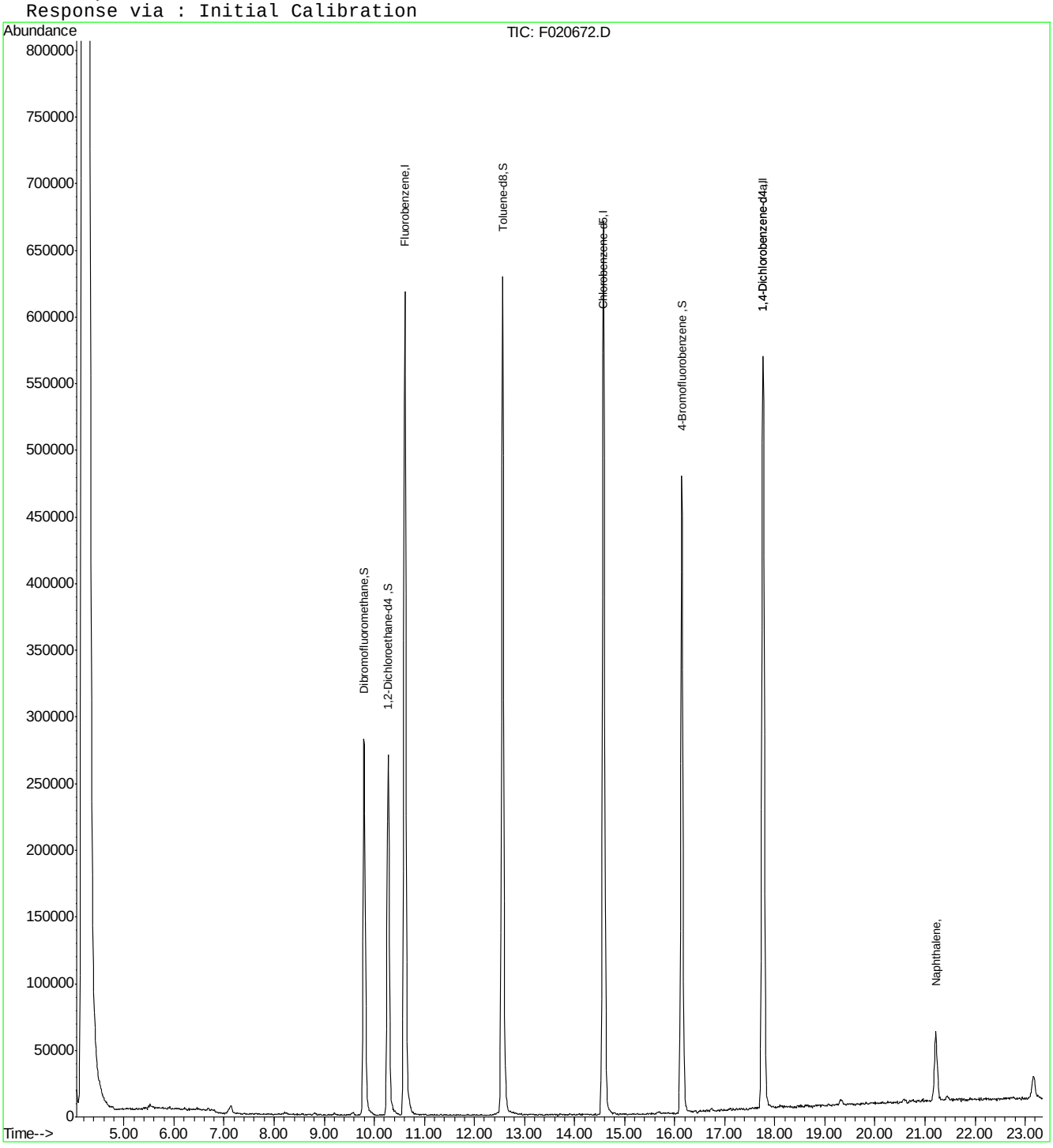
Target Compounds						Qvalue
105) Naphthalene	21.22	128	100336	15.89	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

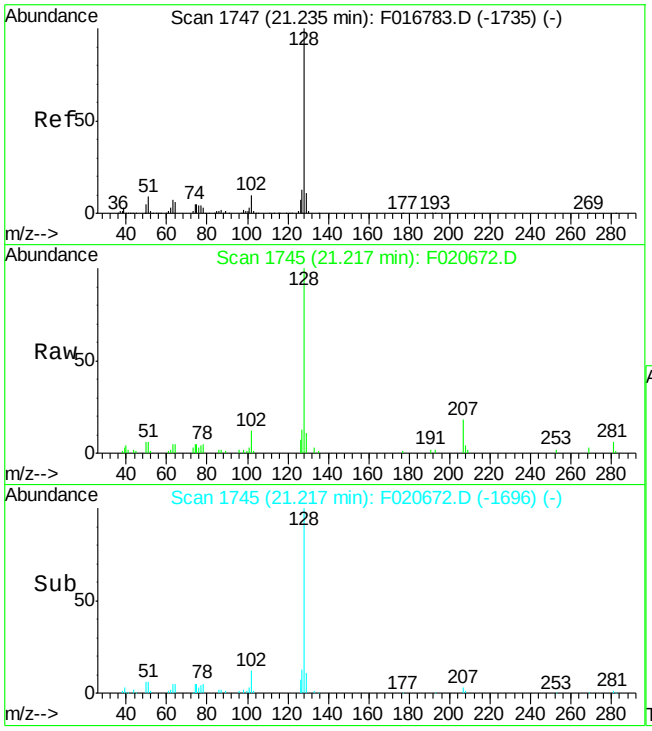
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020672.D Vial: 20
Acq On : 9 Oct 2009 8:33 pm Operator: AnjanaP
Sample : t39423-3 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:42 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



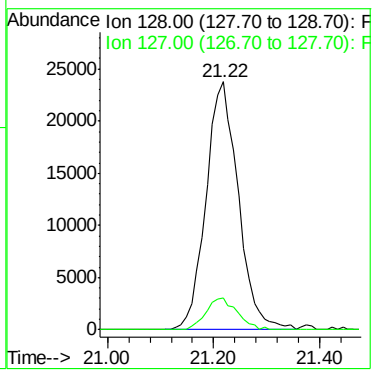
F020672.D VF3547AP9G.M Mon Oct 12 11:46:26 2009 Page 2



#105
Naphthalene
Concen: 15.89 ug/L
RT: 21.22 min Scan# 1745
Delta R.T. -0.01 min
Lab File: F020672.D
Acq: 9 Oct 2009 8:33 pm

Tgt Ion:128 Resp: 100336

Ion	Ratio	Lower	Upper
128	100		
127	12.9	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020673.D Vial: 21
Acq On : 9 Oct 2009 9:03 pm Operator: AnjanaP
Sample : t39423-4 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:14 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	870545	50.00	ug/L	-0.02
61) Chlorobenzene-d5	14.58	117	685572	50.00	ug/L	0.00
80) 1,4-Dichlorobenzene-d4	17.76	152	364893	50.00	ug/L	-0.02
107) 1,4-Dichlorobenzene-d4a	17.76	152	364893	50.00	ug/kg	-0.02

System Monitoring Compounds

39) Dibromofluoromethane	9.80	113	257276	49.84	ug/L	-0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 99.68%			
45) 1,2-Dichloroethane-d4	10.28	65	349764	53.49	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 106.98%			
62) Toluene-d8	12.56	98	711302	44.12	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 88.24%			
83) 4-Bromofluorobenzene	16.14	95	311033	45.12	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.24%			

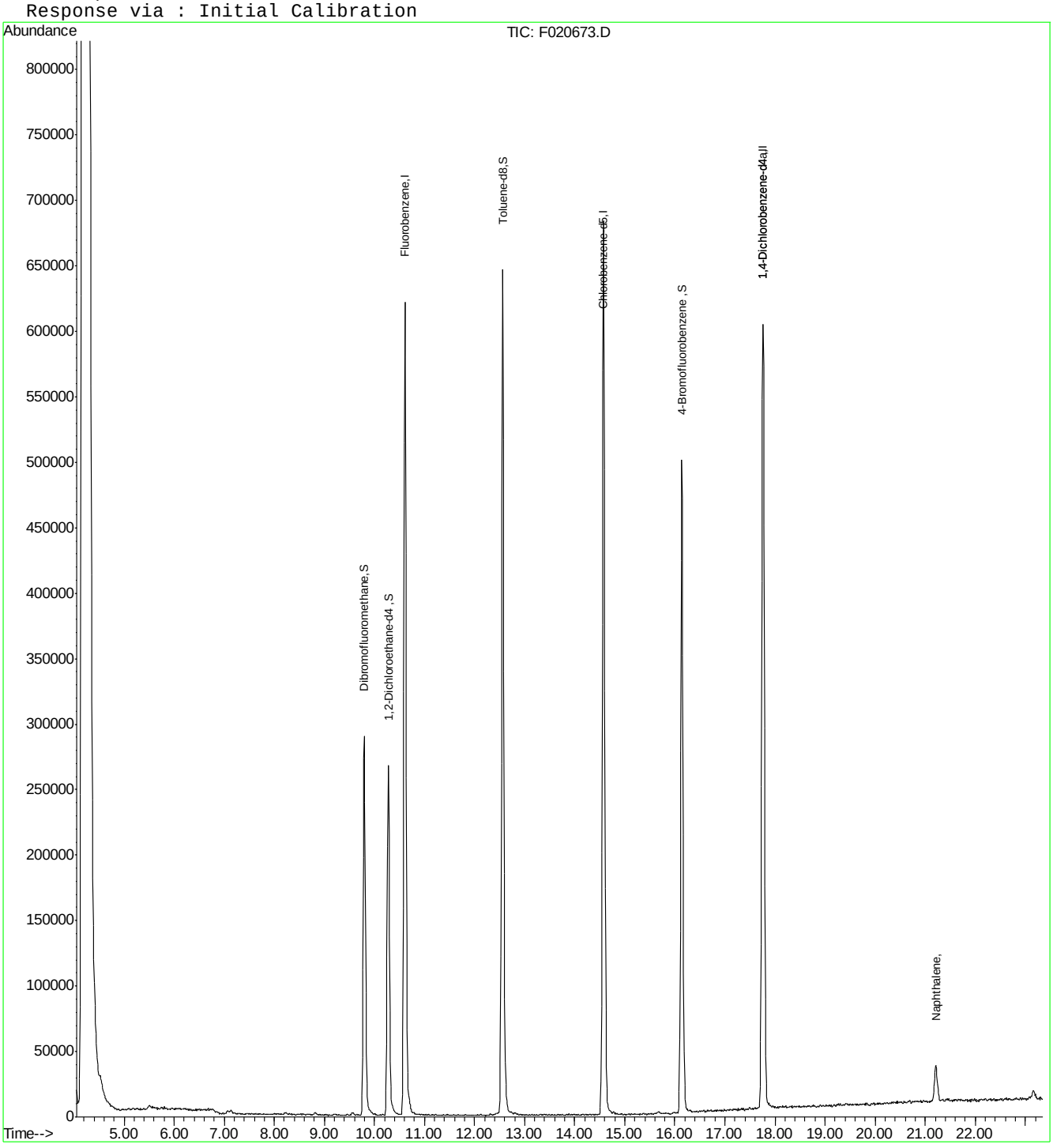
Target Compounds						Qvalue
105) Naphthalene	21.21	128	54726	7.02	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

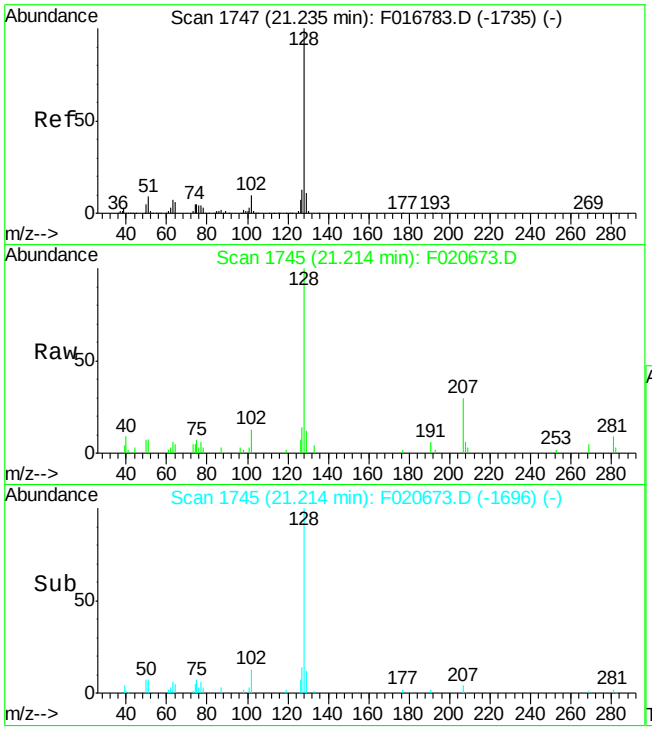
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020673.D Vial: 21
Acq On : 9 Oct 2009 9:03 pm Operator: AnjanaP
Sample : t39423-4 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:42 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



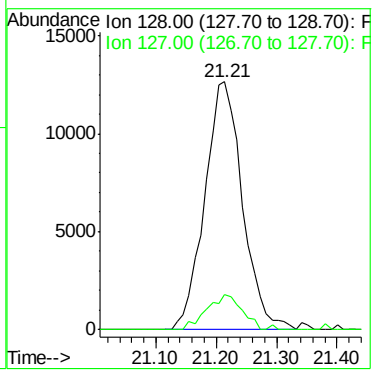
F020673.D VF3547AP9G.M Mon Oct 12 11:46:30 2009 Page 2



#105
Naphthalene
Concen: 7.02 ug/L
RT: 21.21 min Scan# 1745
Delta R.T. -0.02 min
Lab File: F020673.D
Acq: 9 Oct 2009 9:03 pm

Tgt Ion:128 Resp: 54726

Ion	Ratio	Lower	Upper
128	100		
127	14.0	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020674.D Vial: 22
Acq On : 9 Oct 2009 9:33 pm Operator: AnjanaP
Sample : t39423-5 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:15 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	912887	50.00	ug/L	-0.02
61) Chlorobenzene-d5	14.57	117	705556	50.00	ug/L	-0.02
80) 1,4-Dichlorobenzene-d4	17.76	152	378962	50.00	ug/L	-0.02
107) 1,4-Dichlorobenzene-d4a	17.76	152	378962	50.00	ug/kg	-0.02

System Monitoring Compounds						
39) Dibromofluoromethane	9.80	113	263648	48.71	ug/L	-0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 97.42%			
45) 1,2-Dichloroethane-d4	10.27	65	339784	49.41	ug/L	-0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 98.82%			
62) Toluene-d8	12.56	98	737127	44.42	ug/L	-0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 88.84%			
83) 4-Bromofluorobenzene	16.14	95	330196	46.11	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 92.22%			

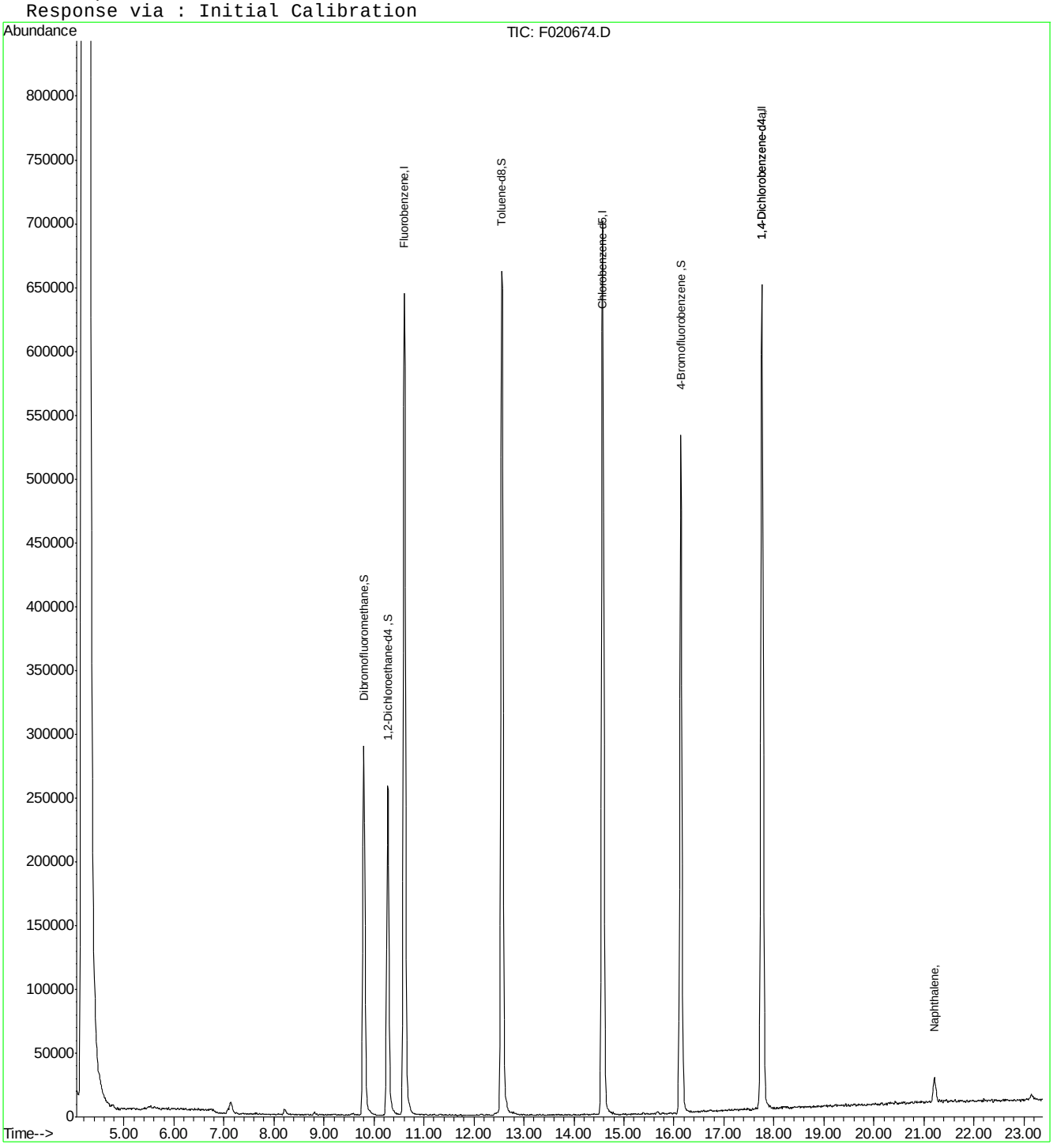
Target Compounds						Qvalue
105) Naphthalene	21.21	128	37109	3.86	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020674.D VF3547AP9G.M Mon Oct 12 11:46:32 2009

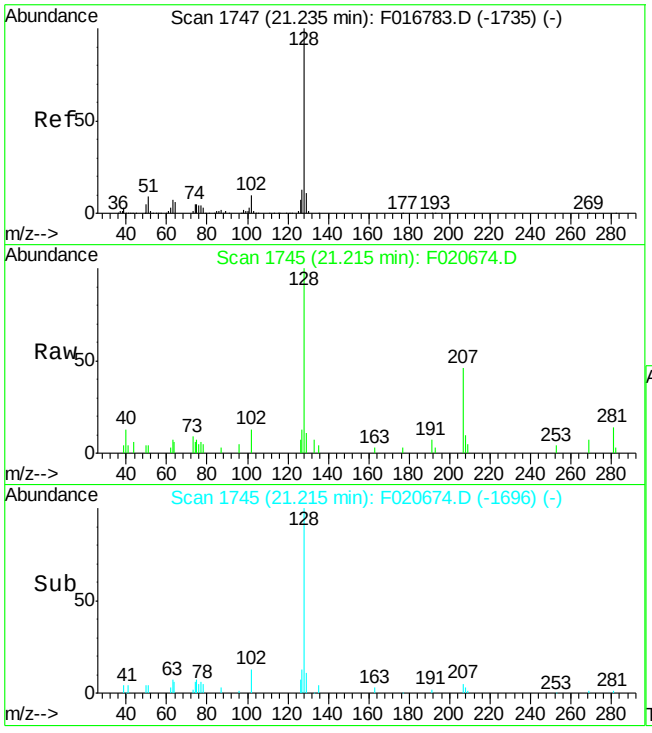
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020674.D Vial: 22
Acq On : 9 Oct 2009 9:33 pm Operator: AnjanaP
Sample : t39423-5 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:43 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



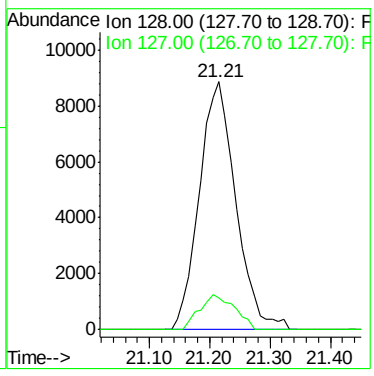
F020674.D VF3547AP9G.M Mon Oct 12 11:46:33 2009 Page 2



#105
Naphthalene
Concen: 3.86 ug/L
RT: 21.21 min Scan# 1745
Delta R.T. -0.02 min
Lab File: F020674.D
Acq: 9 Oct 2009 9:33 pm

Tgt Ion:128 Resp: 37109

Ion	Ratio	Lower	Upper
128	100		
127	12.9	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020675.D Vial: 23
Acq On : 9 Oct 2009 10:03 pm Operator: AnjanaP
Sample : t39423-6 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:16 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	854299	50.00	ug/L	-0.02
61) Chlorobenzene-d5	14.57	117	671403	50.00	ug/L	-0.02
80) 1,4-Dichlorobenzene-d4	17.76	152	364470	50.00	ug/L	-0.02
107) 1,4-Dichlorobenzene-d4a	17.76	152	364470	50.00	ug/kg	-0.02

System Monitoring Compounds						
39) Dibromofluoromethane	9.79	113	255941	50.53	ug/L	-0.03
Spiked Amount 50.000	Range 79 - 122		Recovery = 101.06%			
45) 1,2-Dichloroethane-d4	10.27	65	338606	52.74	ug/L	-0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 105.48%			
62) Toluene-d8	12.55	98	691213	43.79	ug/L	-0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 87.58%			
83) 4-Bromofluorobenzene	16.14	95	305578	44.39	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 88.78%			

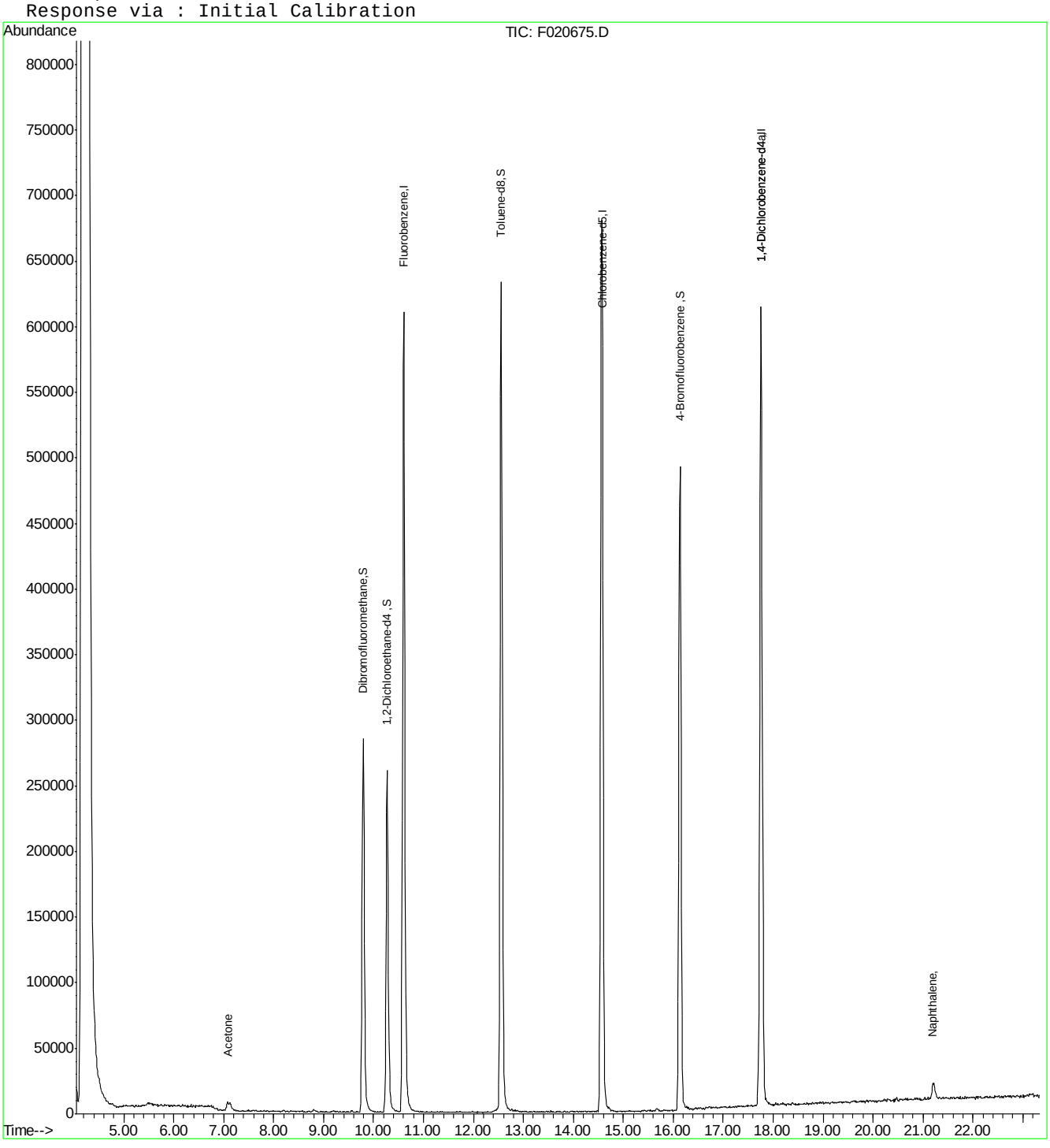
Target Compounds						Qvalue
12) Acetone	7.08	43	17258	5.37	ug/L	95
105) Naphthalene	21.20	128	26259	2.29	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

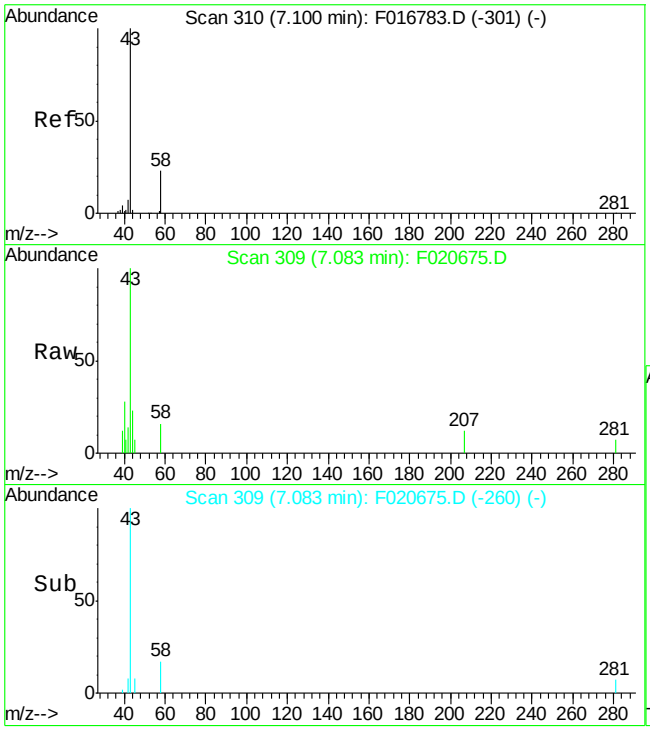
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020675.D Vial: 23
Acq On : 9 Oct 2009 10:03 pm Operator: AnjanaP
Sample : t39423-6 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:44 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



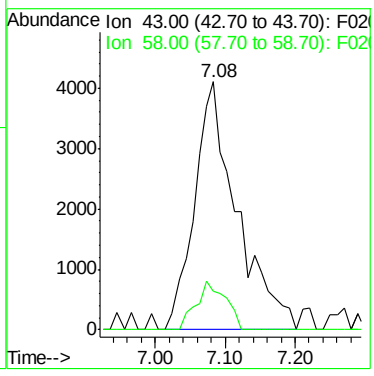
ACCUTEST Laboratories T39423

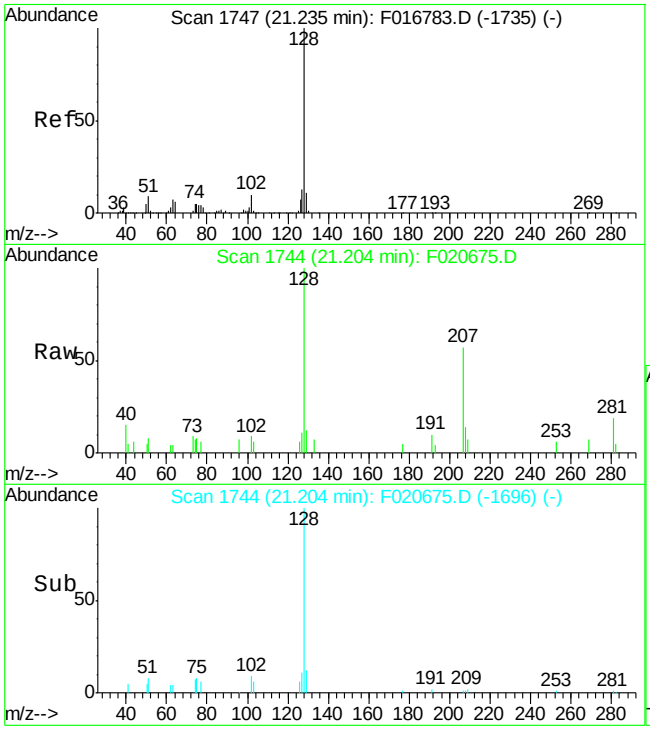


#12
Acetone
Concen: 5.37 ug/L
RT: 7.08 min Scan# 309
Delta R.T. -0.02 min
Lab File: F020675.D
Acq: 9 Oct 2009 10:03 pm

Tgt Ion: 43 Resp: 17258

Ion	Ratio	Lower	Upper
43	100		
58	15.7	0.0	47.7

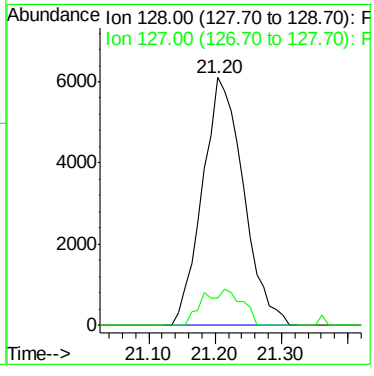




#105
Naphthalene
Concen: 2.29 ug/L
RT: 21.20 min Scan# 1744
Delta R.T. -0.03 min
Lab File: F020675.D
Acq: 9 Oct 2009 10:03 pm

Tgt Ion:128 Resp: 26259

Ion	Ratio	Lower	Upper
128	100		
127	10.9	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020676.D Vial: 24
Acq On : 9 Oct 2009 10:33 pm Operator: AnjanaP
Sample : t39423-7 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:18 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.60	96	857323	50.00	ug/L	-0.02
61) Chlorobenzene-d5	14.58	117	668130	50.00	ug/L	-0.01
80) 1,4-Dichlorobenzene-d4	17.77	152	369307	50.00	ug/L	-0.01
107) 1,4-Dichlorobenzene-d4a	17.77	152	369307	50.00	ug/kg	-0.01

System Monitoring Compounds

39) Dibromofluoromethane	9.80	113	257482	50.65	ug/L	-0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 101.30%			
45) 1,2-Dichloroethane-d4	10.28	65	337949	52.44	ug/L	-0.01
Spiked Amount 50.000	Range 75 - 121		Recovery = 104.88%			
62) Toluene-d8	12.56	98	692834	44.10	ug/L	-0.01
Spiked Amount 50.000	Range 87 - 119		Recovery = 88.20%			
83) 4-Bromofluorobenzene	16.13	95	310955	44.58	ug/L	-0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.16%			

Target Compounds

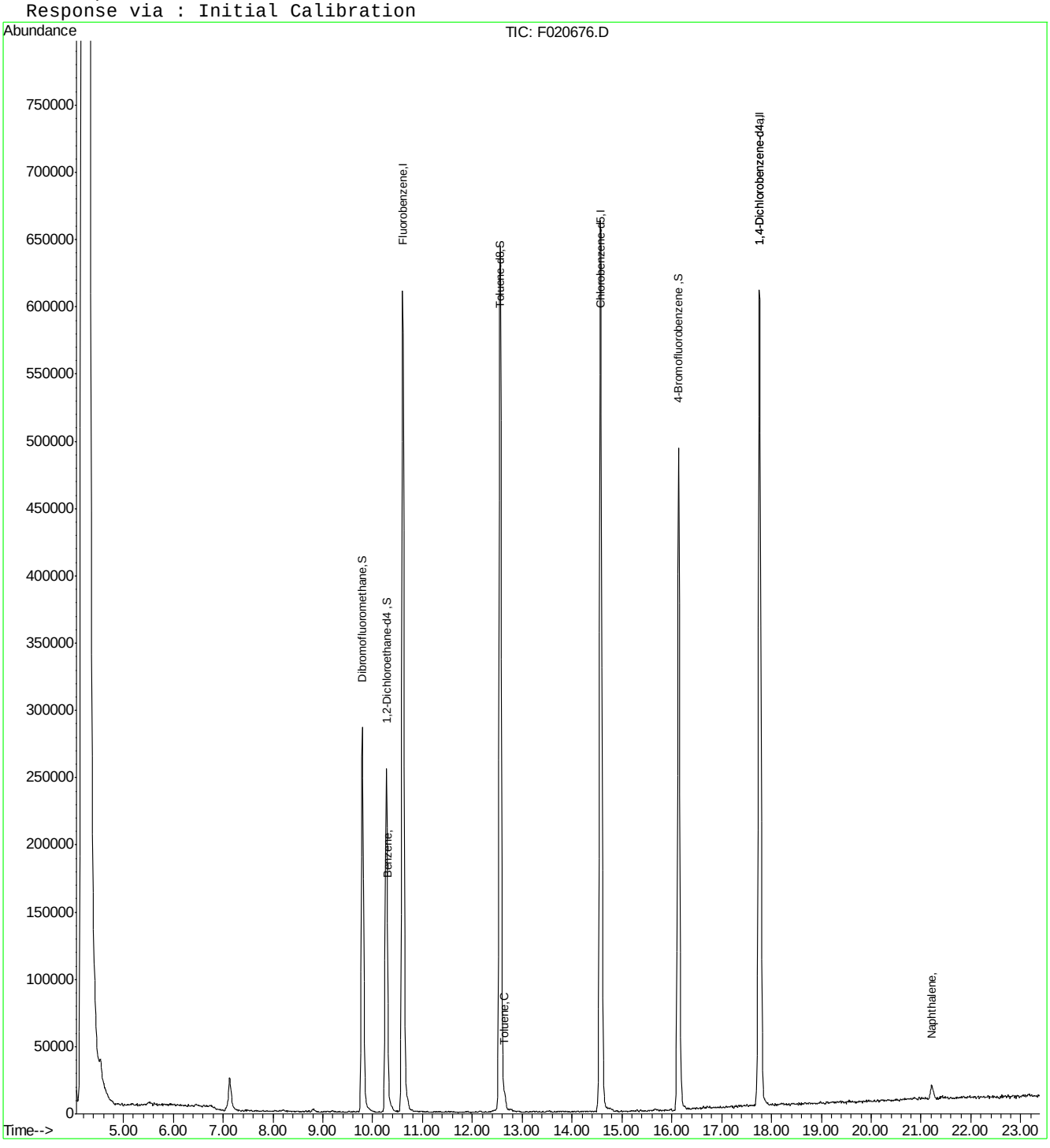
						Qvalue
46) Benzene	10.31	78	5505	0.39	ug/L #	1
63) Toluene	12.65	91	8145	0.45	ug/L	96
105) Naphthalene	21.22	128	20293	1.25	ug/L	93

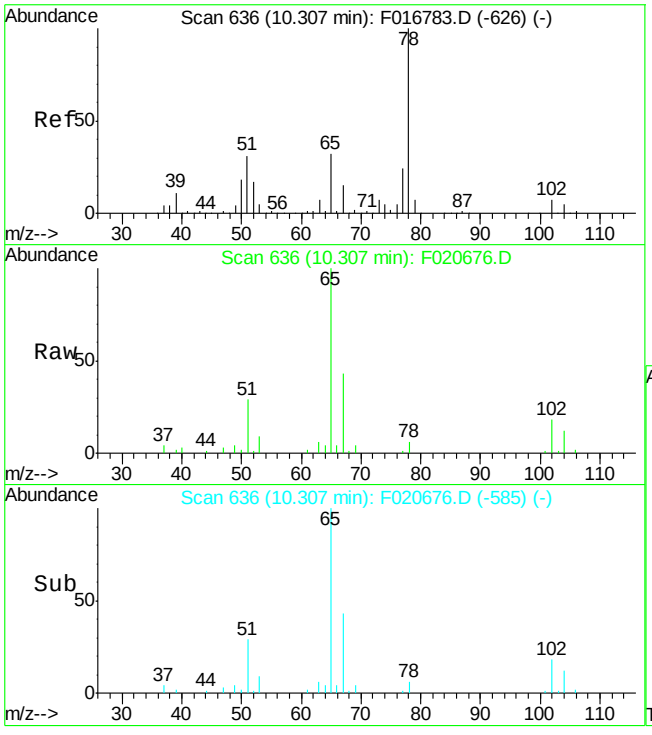
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020676.D VF3547AP9G.M Mon Oct 12 11:46:37 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020676.D Vial: 24
Acq On : 9 Oct 2009 10:33 pm Operator: AnjanaP
Sample : t39423-7 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:44 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration

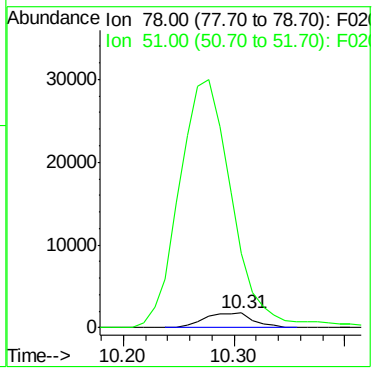


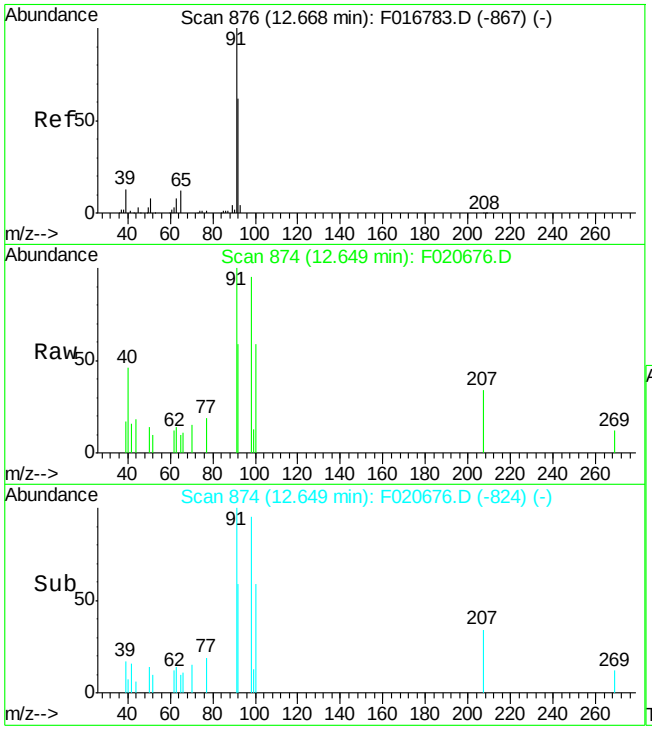


#46
Benzene
Concen: 0.39 ug/L
RT: 10.31 min Scan# 636
Delta R.T. -0.00 min
Lab File: F020676.D
Acq: 9 Oct 2009 10:33 pm

Tgt Ion: 78 Resp: 5505

Ion	Ratio	Lower	Upper
78	100		
51	466.9	4.0	64.0#

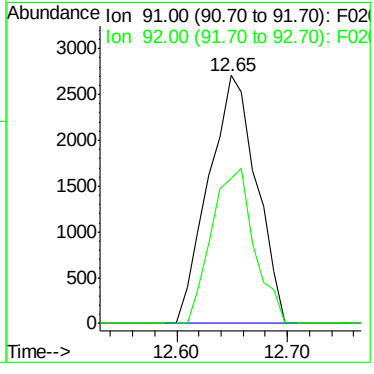


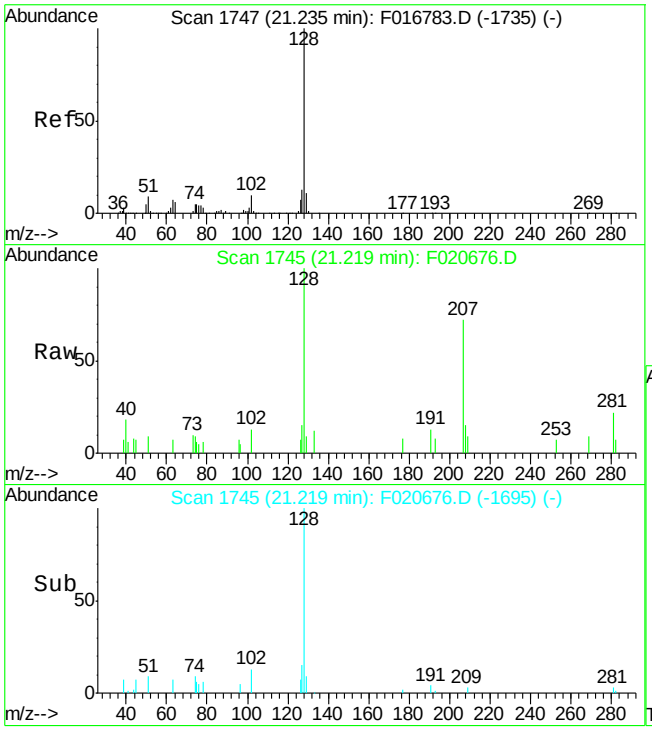


#63
Toluene
Concen: 0.45 ug/L
RT: 12.65 min Scan# 874
Delta R.T. -0.01 min
Lab File: F020676.D
Acq: 9 Oct 2009 10:33 pm

Tgt Ion: 91 Resp: 8145

Ion	Ratio	Lower	Upper
91	100		
92	58.7	31.7	91.7

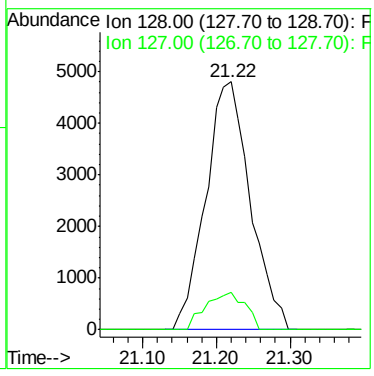




#105
Naphthalene
Concen: 1.25 ug/L
RT: 21.22 min Scan# 1745
Delta R.T. -0.01 min
Lab File: F020676.D
Acq: 9 Oct 2009 10:33 pm

Tgt Ion:128 Resp: 20293

Ion	Ratio	Lower	Upper
128	100		
127	15.3	0.0	42.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020660.D Vial: 8
Acq On : 9 Oct 2009 2:30 pm Operator: AnjanaP
Sample : t39423-8 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:55:58 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	1003932	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	771059	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.80	152	428694	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	428694	50.00	ug/kg	0.02

System Monitoring Compounds

39) Dibromofluoromethane	9.83	113	297346	49.95	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 99.90%			
45) 1,2-Dichloroethane-d4	10.31	65	365160	48.23	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 96.46%			
62) Toluene-d8	12.59	98	832516	45.86	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 91.72%			
83) 4-Bromofluorobenzene	16.16	95	366039	45.20	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.40%			

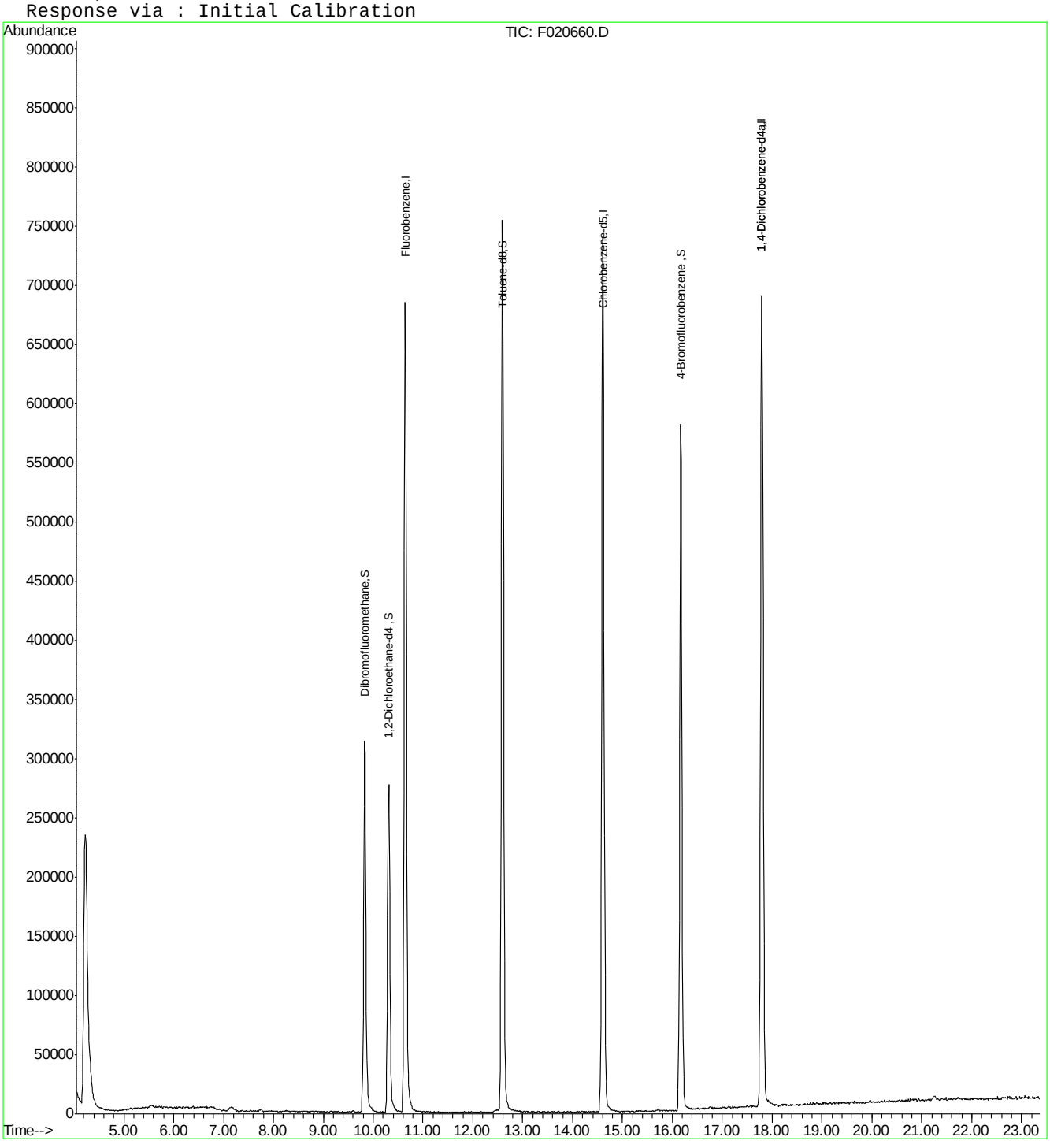
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020660.D Vial: 8
Acq On : 9 Oct 2009 2:30 pm Operator: AnjanaP
Sample : t39423-8 Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:01 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



F020660.D VF3547AP9G.M Mon Oct 12 11:45:58 2009 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020658.D Vial: 6
Acq On : 9 Oct 2009 1:30 pm Operator: AnjanaP
Sample : mb Inst : GC/MS F
Misc : ms7097,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:00:06 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	1006956	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	764186	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.79	152	425878	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.79	152	425878	50.00	ug/kg	0.02

System Monitoring Compounds

39) Dibromofluoromethane	9.82	113	291978	48.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 97.80%			
45) 1,2-Dichloroethane-d4	10.31	65	355184	46.71	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 93.42%			
62) Toluene-d8	12.59	98	832725	46.27	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 92.54%			
83) 4-Bromofluorobenzene	16.17	95	366066	45.49	ug/L	0.03
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.98%			

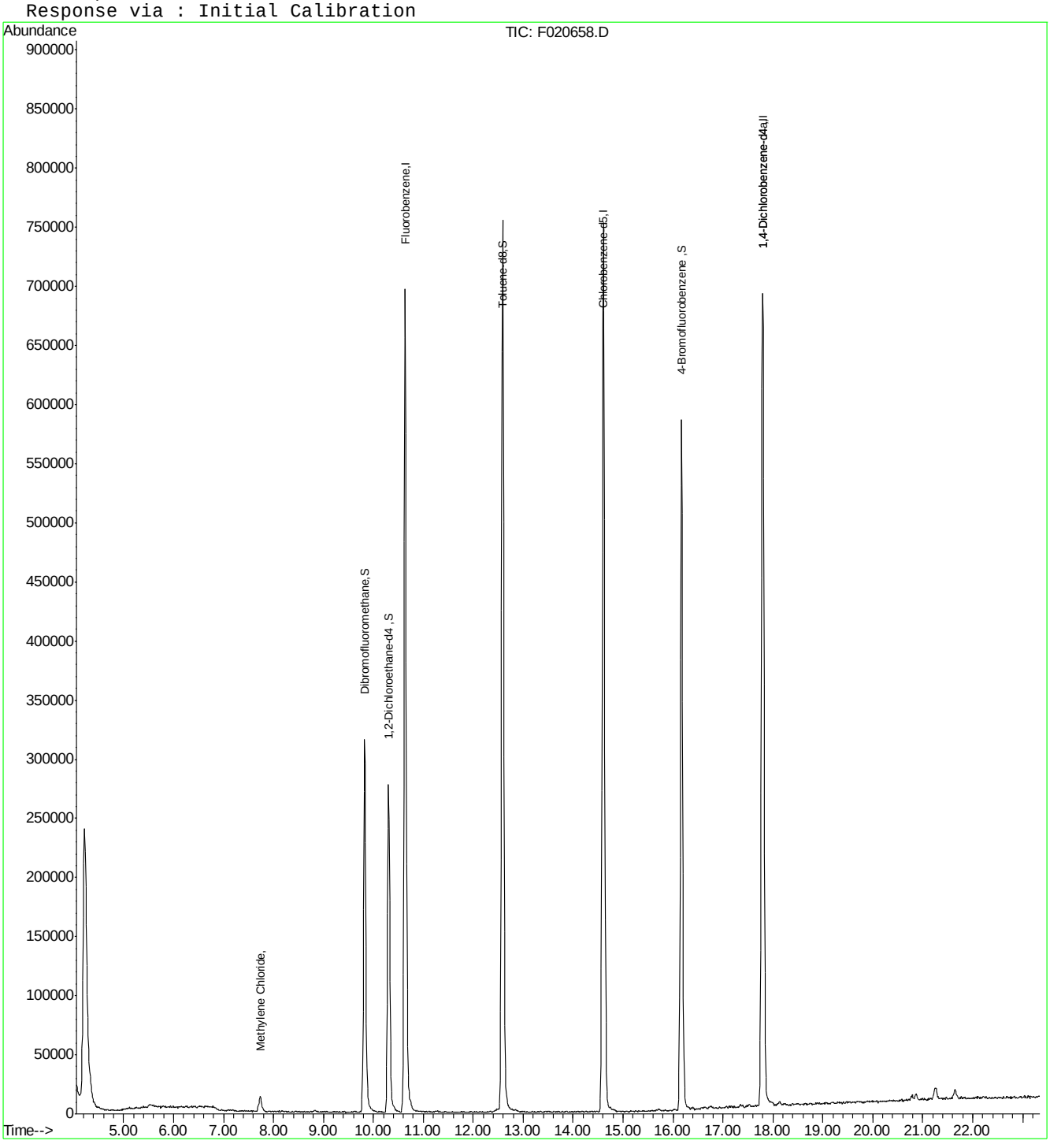
Target Compounds						Qvalue
18) Methylene Chloride	7.74	49	15344	1.97	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020658.D VF3547AP9G.M Mon Oct 12 11:45:53 2009

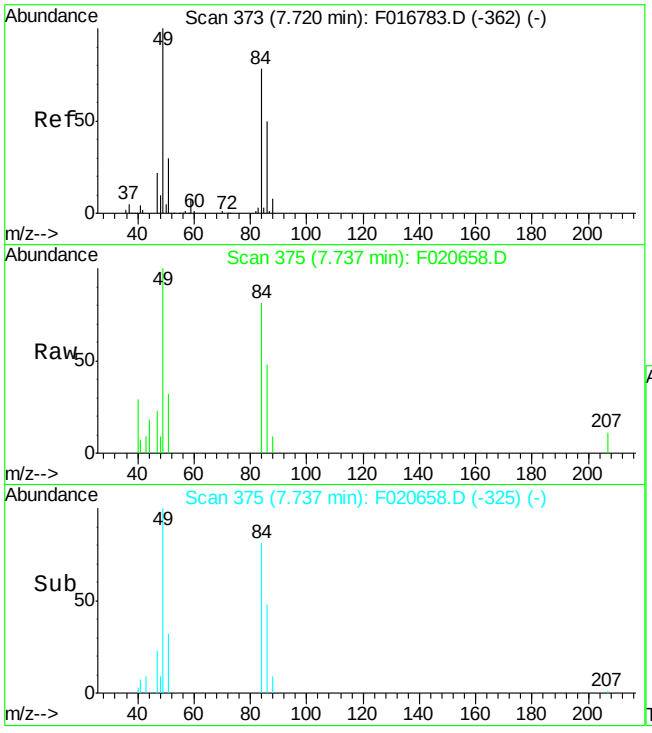
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020658.D Vial: 6
Acq On : 9 Oct 2009 1:30 pm Operator: AnjanaP
Sample : mb Inst : GC/MS F
Misc : ms7097,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:00 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



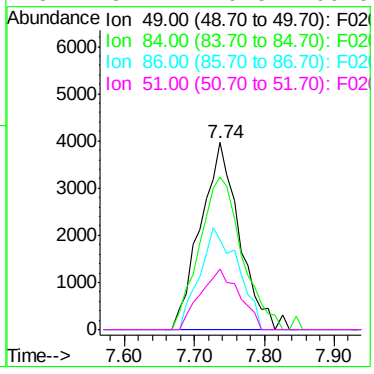
F020658.D VF3547AP9G.M Mon Oct 12 11:45:53 2009 Page 2



#18
Methylene Chloride
Concen: 1.97 ug/L
RT: 7.74 min Scan# 375
Delta R.T. -0.00 min
Lab File: F020658.D
Acq: 9 Oct 2009 1:30 pm

Tgt Ion: 49 Resp: 15344

Ion	Ratio	Lower	Upper
49	100		
84	81.3	51.0	111.0
86	47.8	25.2	85.2
51	32.1	0.5	60.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020656.D Vial: 4
Acq On : 9 Oct 2009 12:26 pm Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7097,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 13:11:56 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	1287154	50.00	ug/L	0.01
61) Chlorobenzene-d5	14.60	117	994733	50.00	ug/L	0.01
80) 1,4-Dichlorobenzene-d4	17.79	152	550263	50.00	ug/L	0.01
107) 1,4-Dichlorobenzene-d4a	17.79	152	550263	50.00	ug/kg	0.01

System Monitoring Compounds

39) Dibromofluoromethane	9.83	113	351292	46.03	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 92.06%			
45) 1,2-Dichloroethane-d4	10.31	65	424131	43.50	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 87.00%			
62) Toluene-d8	12.59	98	1078665	46.05	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 92.10%			
83) 4-Bromofluorobenzene	16.17	95	462912	44.54	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.08%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.64	85	160253	22.17	ug/L	98
3) Chloromethane	5.00	50	171881	25.97	ug/L	99
4) Vinyl Chloride	5.21	62	170949	31.24	ug/L	97
5) Bromomethane	5.82	94	137479	33.00	ug/L	99
6) Chloroethane	5.97	64	109454	31.85	ug/L	98
7) Trichlorofluoromethane	6.34	101	267797	23.97	ug/L	100
8) Acrolein	8.18	56	71261	127.72	ug/L	96
9) Ethyl Ether	6.62	59	129550	27.94	ug/L	96
10) 1,1-Dichloroethene	7.06	61	252310	27.97	ug/L	95
11) Freon 113	6.96	101	166092	28.64	ug/L	92
12) Acetone	7.11	43	196051	112.09	ug/L	93
13) Iodomethane	7.37	142	291346	29.14	ug/L	92
14) Methyl acetate	7.47	43	443281	120.41	ug/L	97
15) Allyl Chloride	7.52	41	184364	27.15	uL/L	86
16) Carbon Disulfide	7.51	76	482691	27.16	ug/L	94
17) Acetonitrile	7.52	41	184364	155.73	uL/L	91
18) Methylene Chloride	7.74	49	211260	27.71	ug/L	96
19) Tert Butyl Alcohol	7.66	59	114256	212.74	ug/L	92
20) trans-1,2-Dichloroethene	8.00	61	227316	27.04	ug/L	95
21) Acrylonitrile	8.06	53	191940	127.52	ug/L	98
22) Methyl Tert Butyl Ether	7.90	73	455635	23.92	ug/L	97
23) Hexane	8.18	57	123074	26.49	ug/L	84
24) 1,1-Dichloroethane	8.57	63	280192	26.38	ug/L	99
25) Vinyl acetate	8.48	43	1597317	119.79	ug/L	95
26) Di-isopropyl ether	8.40	45	527572	25.39	ug/L	95
27) Chloroprene	8.63	53	286923	29.14	uL/L	93
28) Ethyl tert-butyl ether	8.85	59	507731	24.87	ug/L	99
29) 2,2-Dichloropropane	9.26	77	181882	20.74	ug/L	98
30) cis-1,2-Dichloroethene	9.28	96	184999	25.31	ug/L	92
31) Ethyl Acetate	9.17	43	888974	123.55	uL/L	98
32) 2-Butanone	9.17	43	888974	123.55	ug/L	100
33) Propionitrile	9.42	54	144117	261.84	uL/L	100
34) Methacrylonitrile	9.55	41	882558	182.55	uL/L	91
35) Bromochloromethane	9.60	128	95871	26.50	ug/L	93

(#) = qualifier out of range (m) = manual integration
F020656.D VF3547AP9G.M Mon Oct 12 11:45:28 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020656.D Vial: 4
Acq On : 9 Oct 2009 12:26 pm Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7097,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 13:11:56 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	Chloroform	9.61	83	342487	24.33 ug/L	98
37)	Tetrahydrofuran	9.16	42	75585	23.20 ug/L	95
38)	1,1,1-Trichloroethane	9.87	97	286281	23.59 ug/L	99
40)	Cyclohexane	9.89	56	216853	29.70 ug/L	92
41)	Isobutyl Alcohol	9.98	43	85659	952.82 uL/L	82
42)	n-Butyl Alcohol	10.77	56	49091	911.86 ug/L	83
43)	1,1-Dichloropropene	10.05	75	242281	26.80 ug/L	93
44)	Carbon Tetrachloride	10.05	117	256159	24.23 ug/L	97
46)	Benzene	10.32	78	581147	27.52 ug/L	96
47)	1,2-Dichloroethane	10.40	62	275782	22.50 ug/L	96
48)	tert-amyl methyl ether	10.27	73	480087	24.96 ug/L	94
49)	Trichloroethene	11.08	95	194831	26.96 ug/L	97
50)	Methylcyclohexane	11.27	83	184434	27.11 ug/L	98
51)	Methyl Methacrylate	11.33	41	137528	24.38 uL/L	94
52)	1,2-Dichloropropane	11.43	63	145591	28.01 ug/L	86
53)	Dibromomethane	11.62	93	123483	24.67 ug/L	99
54)	1,4-Dioxane	11.50	88	27579	528.51 ug/L	94
55)	Bromodichloromethane	11.73	83	274606	22.60 ug/L	99
56)	2-Nitropropane	12.05	41	278034	108.43 ug/L	96
57)	2-Chloroethyl vinyl ether	11.97	63	393858	147.22 ug/L	97
58)	1-Bromo-2-Chloroethane	12.22	63	202139	26.63 uL/L	99
59)	4-Methyl-2-pentanone	12.35	43	623105	124.07 ug/L	95
60)	cis-1,3-Dichloropropene	12.28	75	287384	25.32 ug/L	87
63)	Toluene	12.68	91	685993	25.71 ug/L	98
64)	Ethyl Methacrylate	12.86	69	202330	23.78 uL/:	99
65)	trans-1,3-Dichloropropene	12.99	75	271078	23.42 ug/L	93
66)	1,1,2-Trichloroethane	13.26	83	121470	24.32 ug/L	92
67)	Tetrachloroethene	13.41	166	204274	24.36 ug/L	96
68)	2-hexanone	13.42	43	441662	115.41 ug/L	93
69)	1,3-Dichloropropane	13.52	76	269203	23.97 ug/L	88
70)	Dibromochloromethane	13.83	129	189825	22.05 ug/L	99
71)	1,2-Dibromoethane	14.07	107	166275	23.70 ug/L	99
72)	1-Chlorohexane	14.41	91	234012	25.02 ug/L	90
73)	Chlorobenzene	14.65	112	442293	24.98 ug/L	93
74)	1,1,1,2-Tetrachloroethane	14.73	131	176956	23.11 ug/L	97
75)	Ethylbenzene	14.66	91	788056	23.72 ug/L	99
76)	m,p-Xylene	14.81	91	1212430	47.43 ug/L	96
77)	o-Xylene	15.40	91	652804	24.55 ug/L	97
78)	Styrene	15.42	104	460805	24.36 ug/L	93
79)	Bromoform	15.82	173	130633	21.32 ug/L	97
81)	Isopropylbenzene	15.82	105	640829	25.72 ug/L	99
82)	Cyclohexanone	16.16	55	44726	213.49 ug/L	91
84)	Bromobenzene	16.43	156	215870	24.24 ug/L	96
85)	1,1,2,2-Tetrachloroethane	16.30	83	157769	23.17 ug/L	98
86)	Trans-1,4-Dichloro-2-Buten	16.37	53	39172	15.54 ug/L #	82
87)	1,2,3-Trichloropropane	16.43	110	52727	20.31 ug/L	92
88)	n-Propylbenzene	16.37	91	822366	24.08 ug/L	99
89)	2-Chlorotoluene	16.62	91	592643	23.35 ug/L	97
90)	4-Chlorotoluene	16.77	91	558780	23.57 ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020656.D Vial: 4
Acq On : 9 Oct 2009 12:26 pm Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7097,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 13:11:56 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

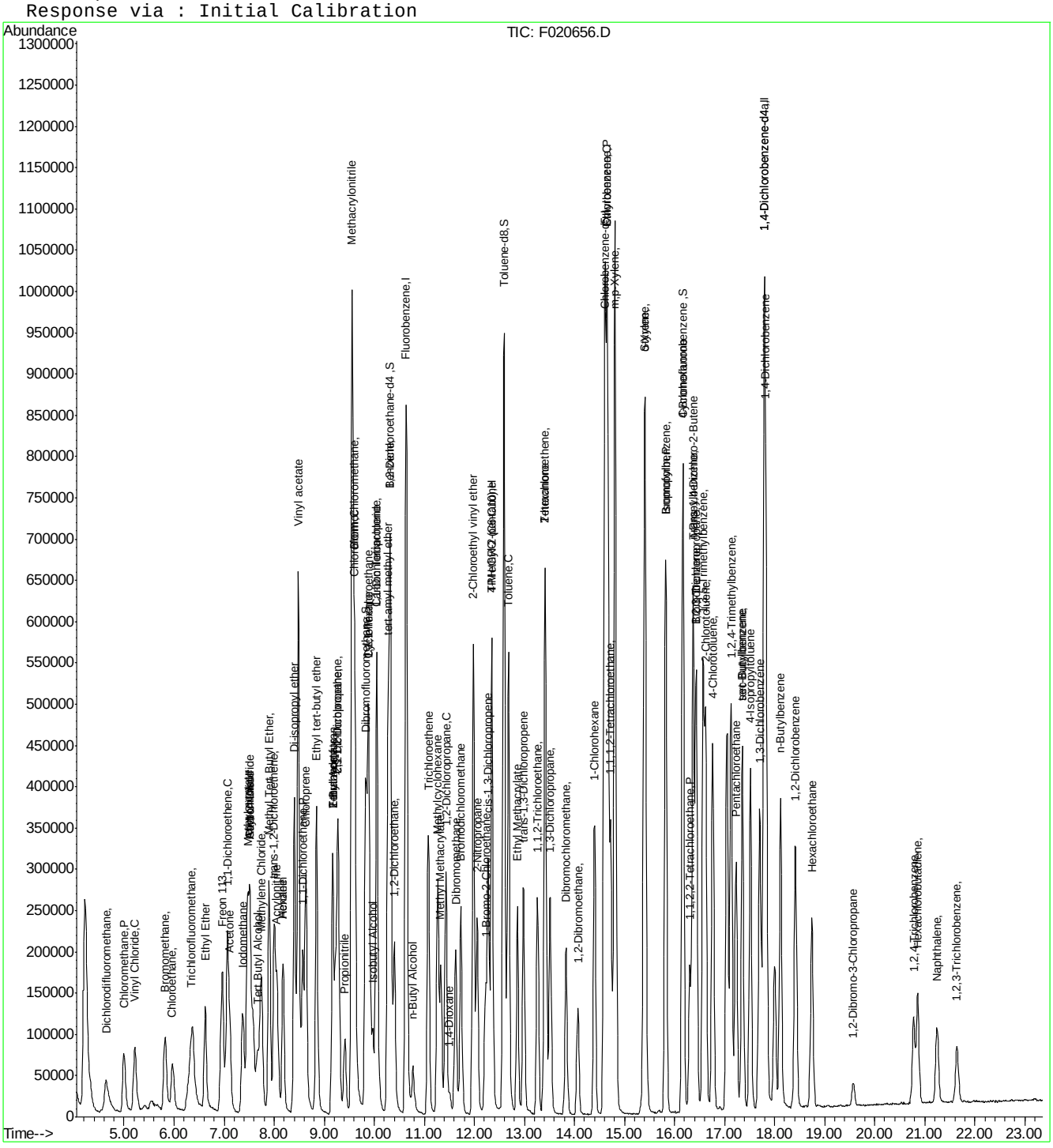
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.57	105	532667	23.57	ug/L	96
92)	Pentachloroethane	17.23	167	124927	21.75	uL/L	99
93)	sec-Butylbenzene	17.36	105	610641	24.50	ug/L	99
94)	1,3-Dichlorobenzene	17.70	146	332249	23.88	ug/L	98
95)	4-Isopropyltoluene	17.51	119	485092	23.94	ug/L	98
96)	1,4-Dichlorobenzene	17.83	146	340963	23.79	ug/L	98
97)	tert-Butylbenzene	17.36	91	102026	23.35	ug/L	90
98)	n-Butylbenzene	18.12	91	442903	22.58	ug/L	99
99)	1,2-Dichlorobenzene	18.42	146	299325	22.93	ug/L	95
100)	1,2,4-Trimethylbenzene	17.13	105	561827	23.26	ug/L	97
101)	Hexachloroethane	18.74	119	107489	22.39	uL/L	96
102)	1,2-Dibromo-3-Chloropropan	19.56	75	16921	12.76	ug/L	95
103)	1,2,4-Trichlorobenzene	20.77	180	83278	11.28	ug/L	97
104)	Hexachlorobutadiene	20.86	225	60598	18.67	ug/L	99
105)	Naphthalene	21.24	128	184654	18.28	ug/L	100
106)	1,2,3-Trichlorobenzene	21.65	180	60929	15.39	ug/L	95
108)	TPH-GRO (C6-C10)	12.34	TIC	59299062m	1813.35	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020656.D VF3547AP9G.M Mon Oct 12 11:45:28 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020656.D Vial: 4
Acq On : 9 Oct 2009 12:26 pm Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7097,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 13:11 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
10/12/09 15:28

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020662.D Vial: 10
Acq On : 9 Oct 2009 3:31 pm Operator: AnjanaP
Sample : t39314-2ms Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:00 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	917598	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.62	117	724780	50.00	ug/L	0.03
80) 1,4-Dichlorobenzene-d4	17.80	152	409687	50.00	ug/L	0.03
107) 1,4-Dichlorobenzene-d4a	17.80	152	409687	50.00	ug/kg	0.03

System Monitoring Compounds						
39) Dibromofluoromethane	9.83	113	277643	51.03	ug/L	0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 102.06%			
45) 1,2-Dichloroethane-d4	10.32	65	355125	51.45	ug/L	0.03
Spiked Amount 50.000	Range 75 - 121		Recovery = 102.90%			
62) Toluene-d8	12.60	98	774087	45.38	ug/L	0.03
Spiked Amount 50.000	Range 87 - 119		Recovery = 90.76%			
83) 4-Bromofluorobenzene	16.17	95	354027	45.73	ug/L	0.03
Spiked Amount 50.000	Range 80 - 133		Recovery = 91.46%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.66	85	127670	24.77	ug/L	100
3) Chloromethane	5.00	50	119038	25.19	ug/L	100
4) Vinyl Chloride	5.22	62	122262	31.35	ug/L	98
5) Bromomethane	5.83	94	111074	37.66	ug/L	98
6) Chloroethane	5.97	64	77907	31.80	ug/L	96
7) Trichlorofluoromethane	6.35	101	220863	27.74	ug/L	94
8) Acrolein	8.18	56	59367	149.26	ug/L	99
9) Ethyl Ether	6.63	59	102124	30.90	ug/L	97
10) 1,1-Dichloroethene	7.07	61	210332	32.71	ug/L	97
11) Freon 113	6.97	101	143483	34.71	ug/L	96
12) Acetone	7.12	43	164058	133.48	ug/L	95
13) Iodomethane	7.37	142	250844	35.19	ug/L	95
14) Methyl acetate	7.47	43	355675	135.26	ug/L	95
15) Allyl Chloride	7.52	41	150608	31.58	uL/L	97
16) Carbon Disulfide	7.50	76	392307	30.97	ug/L	98
17) Acetonitrile	7.52	41	68087m	80.89	uL/L	
18) Methylene Chloride	7.75	49	157223	28.96	ug/L	95
19) Tert Butyl Alcohol	7.67	59	105229	274.85	ug/L	94
20) trans-1,2-Dichloroethene	8.00	61	189594	31.63	ug/L	95
21) Acrylonitrile	8.06	53	138831	129.39	ug/L	98
22) Methyl Tert Butyl Ether	7.91	73	398976	29.38	ug/L	99
23) Hexane	8.18	57	100171	30.25	ug/L	89
24) 1,1-Dichloroethane	8.57	63	227218	30.01	ug/L	98
25) Vinyl acetate	8.49	43	1304254	137.20	ug/L	98
26) Di-isopropyl ether	8.41	45	414750	28.00	ug/L	98
27) Chloroprene	8.64	53	217940	31.05	uL/L	94
28) Ethyl tert-butyl ether	8.85	59	429757	29.52	ug/L	99
29) 2,2-Dichloropropane	9.26	77	174780	27.96	ug/L	100
30) cis-1,2-Dichloroethene	9.29	96	152328	29.24	ug/L	92
31) Ethyl Acetate	9.18	43	271329	52.90	uL/L	98
32) 2-Butanone	9.18	43	478831m	93.35	ug/L	
33) Propionitrile	9.41	54	106355	271.05	uL/L	98
34) Methacrylonitrile	9.56	41	665945	193.22	uL/L	90
35) Bromochloromethane	9.61	128	81058	31.43	ug/L	89

(#) = qualifier out of range (m) = manual integration
F020662.D VF3547AP9G.M Mon Oct 12 11:45:29 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020662.D Vial: 10
Acq On : 9 Oct 2009 3:31 pm Operator: AnjanaP
Sample : t39314-2ms Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:00 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	Chloroform	9.62	83	294724	29.37 ug/L		99
37)	Tetrahydrofuran	9.18	42	22900	8.97 ug/L		89
38)	1,1,1-Trichloroethane	9.87	97	253522	29.31 ug/L		97
40)	Cyclohexane	9.90	56	160227	30.78 ug/L		97
41)	Isobutyl Alcohol	9.97	43	60404	942.77 uL/L		85
42)	n-Butyl Alcohol	10.78	56	37337	970.01 ug/L		91
43)	1,1-Dichloropropene	10.06	75	200590	31.12 ug/L		92
44)	Carbon Tetrachloride	10.06	117	229290	30.42 ug/L		98
46)	Benzene	10.34	78	463621	30.79 ug/L		96
47)	1,2-Dichloroethane	10.41	62	245891	28.14 ug/L		99
48)	tert-amyl methyl ether	10.28	73	404838	29.53 ug/L		95
49)	Trichloroethene	11.08	95	157415	30.71 ug/L		99
50)	Methylcyclohexane	11.28	83	145756	30.05 ug/L		95
51)	Methyl Methacrylate	11.34	41	110721	27.53 uL/L		99
52)	1,2-Dichloropropane	11.44	63	110392	29.79 ug/L		92
53)	Dibromomethane	11.63	93	106040	29.72 ug/L		95
54)	1,4-Dioxane	11.51	88	20868	560.96 ug/L		96
55)	Bromodichloromethane	11.73	83	235177	27.15 ug/L		99
56)	2-Nitropropane	12.07	41	250287	136.92 ug/L		96
57)	2-Chloroethyl vinyl ether	12.23	63	117082	61.39 ug/L	#	13
58)	1-Bromo-2-Chloroethane	12.23	63	115357	21.32 uL/L		100
59)	4-Methyl-2-pentanone	12.35	43	492518	137.56 ug/L		99
60)	cis-1,3-Dichloropropene	12.28	75	233380	28.84 ug/L		94
63)	Toluene	12.69	91	525960	27.06 ug/L		99
64)	Ethyl Methacrylate	12.87	69	143173	23.10 uL/:		98
65)	trans-1,3-Dichloropropene	12.99	75	226098	26.81 ug/L		96
66)	1,1,2-Trichloroethane	13.27	83	94250	25.90 ug/L		96
67)	Tetrachloroethene	13.42	166	166800	27.30 ug/L		98
68)	2-hexanone	13.44	43	333922	119.76 ug/L		94
69)	1,3-Dichloropropane	13.52	76	211227	25.82 ug/L		94
70)	Dibromochloromethane	13.84	129	158454	25.26 ug/L		98
71)	1,2-Dibromoethane	14.08	107	132445	25.91 ug/L		98
72)	1-Chlorohexane	14.41	91	177790	26.08 ug/L		92
73)	Chlorobenzene	14.66	112	341213	26.45 ug/L		95
74)	1,1,1,2-Tetrachloroethane	14.73	131	145931	26.16 ug/L		98
75)	Ethylbenzene	14.68	91	625009	25.82 ug/L		100
76)	m,p-Xylene	14.81	91	990537	53.18 ug/L		99
77)	o-Xylene	15.40	91	509927	26.32 ug/L		99
78)	Styrene	15.43	104	345201	25.05 ug/L		93
79)	Bromoform	15.83	173	106453	23.85 ug/L		98
81)	Isopropylbenzene	15.84	105	487967	26.31 ug/L		98
82)	Cyclohexanone	16.17	55	13777	89.98 ug/L	#	18
84)	Bromobenzene	16.45	156	169889	25.62 ug/L		96
85)	1,1,2,2-Tetrachloroethane	16.31	83	118407	23.35 ug/L		99
86)	Trans-1,4-Dichloro-2-Buten	16.38	53	32848	17.50 ug/L	#	86
87)	1,2,3-Trichloropropane	16.44	110	43192	22.35 ug/L		95
88)	n-Propylbenzene	16.38	91	626050	24.62 ug/L		98
89)	2-Chlorotoluene	16.62	91	468444	24.79 ug/L		99
90)	4-Chlorotoluene	16.77	91	438459	24.84 ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020662.D Vial: 10
Acq On : 9 Oct 2009 3:31 pm Operator: AnjanaP
Sample : t39314-2ms Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:00 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.58	105	413021	24.55	ug/L	100
92)	Pentachloroethane	17.24	167	94190	22.02	uL/L	96
93)	sec-Butylbenzene	17.37	105	446852	24.08	ug/L	99
94)	1,3-Dichlorobenzene	17.72	146	258948	25.00	ug/L	98
95)	4-Isopropyltoluene	17.53	119	354516	23.50	ug/L	99
96)	1,4-Dichlorobenzene	17.84	146	271480	25.45	ug/L	98
97)	tert-Butylbenzene	17.37	91	81019	24.97	ug/L	96
98)	n-Butylbenzene	18.13	91	326301	22.34	ug/L	98
99)	1,2-Dichlorobenzene	18.42	146	233514	24.03	ug/L	97
100)	1,2,4-Trimethylbenzene	17.14	105	426597	23.72	ug/L	97
101)	Hexachloroethane	18.75	119	77465	21.67	uL/L	95
102)	1,2-Dibromo-3-Chloropropan	19.59	75	12565	12.72	ug/L	88
103)	1,2,4-Trichlorobenzene	20.79	180	44794	7.55	ug/L	94
104)	Hexachlorobutadiene	20.87	225	40509	16.37	ug/L	95
105)	Naphthalene	21.26	128	43490	4.36	ug/L	99
106)	1,2,3-Trichlorobenzene	21.65	180	10932	1.59	ug/L	86
108)	TPH-GRO (C6-C10)	12.34	TIC	47401561m	1890.12	ug/kg	

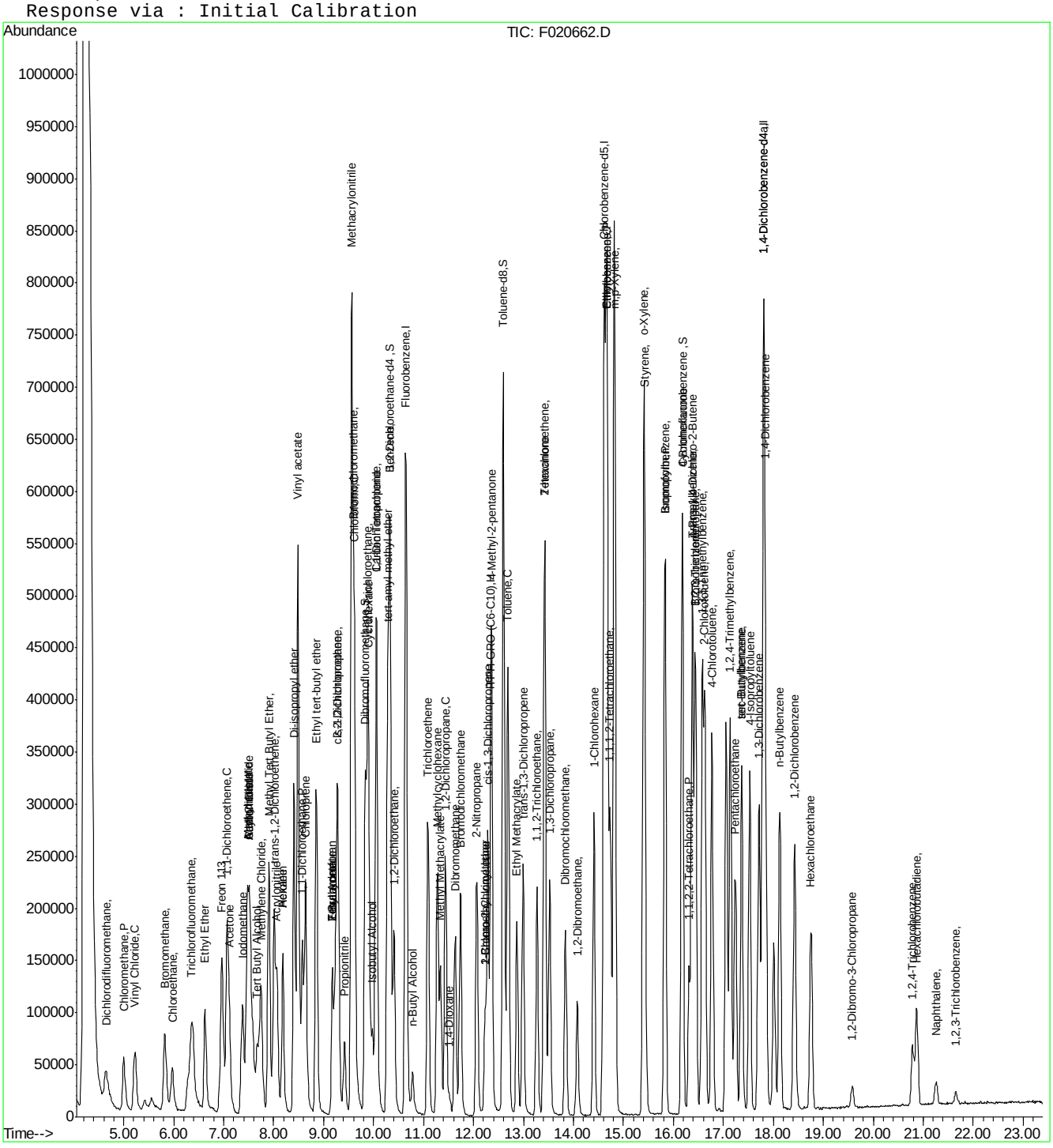
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020662.D Vial: 10
Acq On : 9 Oct 2009 3:31 pm Operator: AnjanaP
Sample : t39314-2ms Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:03 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
10/12/09 15:28

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020663.D Vial: 11
Acq On : 9 Oct 2009 4:01 pm Operator: AnjanaP
Sample : t39314-2msd Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:01 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.64	96	979315	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	764127	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.79	152	428517	50.00	ug/L	0.01
107) 1,4-Dichlorobenzene-d4a	17.79	152	428517	50.00	ug/kg	0.01

System Monitoring Compounds

39) Dibromofluoromethane	9.83	113	284580	49.01	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 98.02%			
45) 1,2-Dichloroethane-d4	10.31	65	365135	49.49	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 98.98%			
62) Toluene-d8	12.59	98	814595	45.30	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 90.60%			
83) 4-Bromofluorobenzene	16.16	95	371602	45.89	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 91.78%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.65	85	132757	24.14	ug/L	100
3) Chloromethane	5.01	50	122026	24.14	ug/L	99
4) Vinyl Chloride	5.22	62	122242	29.29	ug/L	95
5) Bromomethane	5.82	94	110679	35.03	ug/L	97
6) Chloroethane	5.97	64	78952	30.19	ug/L	94
7) Trichlorofluoromethane	6.34	101	230571	27.13	ug/L	99
8) Acrolein	8.18	56	58095	136.86	ug/L	96
9) Ethyl Ether	6.63	59	104718	29.68	ug/L	96
10) 1,1-Dichloroethene	7.07	61	211432	30.81	ug/L	98
11) Freon 113	6.97	101	138369	31.36	ug/L	94
12) Acetone	7.11	43	169272	128.68	ug/L	96
13) Iodomethane	7.38	142	254204	33.42	ug/L	96
14) Methyl acetate	7.47	43	375736	133.90	ug/L	97
15) Allyl Chloride	7.53	41	159572	31.33	uL/L	90
16) Carbon Disulfide	7.52	76	391593	28.96	ug/L	95
17) Acetonitrile	7.53	41	68541m	75.94	uL/L	
18) Methylene Chloride	7.74	49	158176	27.26	ug/L	99
19) Tert Butyl Alcohol	7.67	59	114003	279.00	ug/L	96
20) trans-1,2-Dichloroethene	8.01	61	194260	30.37	ug/L	96
21) Acrylonitrile	8.07	53	154861	135.23	ug/L	95
22) Methyl Tert Butyl Ether	7.91	73	418073	28.85	ug/L	97
23) Hexane	8.18	57	99679	28.20	ug/L	91
24) 1,1-Dichloroethane	8.58	63	230789	28.56	ug/L	99
25) Vinyl acetate	8.49	43	1360989	134.15	ug/L	99
26) Di-isopropyl ether	8.41	45	432733	27.37	ug/L	97
27) Chloroprene	8.64	53	222647	29.72	uL/L	97
28) Ethyl tert-butyl ether	8.85	59	441853	28.44	ug/L	98
29) 2,2-Dichloropropane	9.27	77	171063	25.64	ug/L	97
30) cis-1,2-Dichloroethene	9.29	96	155916	28.04	ug/L	93
31) Ethyl Acetate	9.17	43	276842	50.57	uL/L	99
32) 2-Butanone	9.17	43	527139m	96.29	ug/L	
33) Propionitrile	9.41	54	112560	268.79	uL/L	99
34) Methacrylonitrile	9.56	41	718692	195.39	uL/L	91
35) Bromochloromethane	9.61	128	84085	30.55	ug/L	92

(#) = qualifier out of range (m) = manual integration
F020663.D VF3547AP9G.M Mon Oct 12 11:45:31 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020663.D Vial: 11
Acq On : 9 Oct 2009 4:01 pm Operator: AnjanaP
Sample : t39314-2msd Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:01 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Chloroform	9.62	83	302697	28.26	ug/L		98
37)	Tetrahydrofuran	9.17	42	24108	8.83	ug/L		92
38)	1,1,1-Trichloroethane	9.88	97	255972	27.73	ug/L		99
40)	Cyclohexane	9.90	56	166370	29.95	ug/L		95
41)	Isobutyl Alcohol	9.98	43	68229	996.36	uL/L		81
42)	n-Butyl Alcohol	10.78	56	42551	1032.93	ug/L		88
43)	1,1-Dichloropropene	10.05	75	202643	29.46	ug/L		93
44)	Carbon Tetrachloride	10.05	117	229025	28.47	ug/L		98
46)	Benzene	10.33	78	476503	29.65	ug/L		99
47)	1,2-Dichloroethane	10.41	62	248851	26.69	ug/L		100
48)	tert-amyl methyl ether	10.27	73	422634	28.88	ug/L		96
49)	Trichloroethene	11.08	95	160256	29.24	ug/L		99
50)	Methylcyclohexane	11.27	83	151653	29.30	ug/L		97
51)	Methyl Methacrylate	11.33	41	121589	28.33	uL/L		97
52)	1,2-Dichloropropane	11.43	63	115790	29.28	ug/L		89
53)	Dibromomethane	11.63	93	107677	28.28	ug/L		96
54)	1,4-Dioxane	11.51	88	23330	587.62	ug/L		95
55)	Bromodichloromethane	11.74	83	233184	25.22	ug/L		99
56)	2-Nitropropane	12.06	41	258818	132.67	ug/L		98
57)	2-Chloroethyl vinyl ether	12.23	63	123441	60.65	ug/L	#	13
58)	1-Bromo-2-Chloroethane	12.23	63	123441	21.37	uL/L		98
59)	4-Methyl-2-pentanone	12.35	43	525209	137.45	ug/L		98
60)	cis-1,3-Dichloropropene	12.28	75	238304	27.59	ug/L		96
63)	Toluene	12.68	91	543226	26.51	ug/L		98
64)	Ethyl Methacrylate	12.86	69	154981	23.72	uL/:		96
65)	trans-1,3-Dichloropropene	12.99	75	237290	26.69	ug/L		95
66)	1,1,2-Trichloroethane	13.26	83	97216	25.34	ug/L		94
67)	Tetrachloroethene	13.41	166	171007	26.54	ug/L		97
68)	2-hexanone	13.42	43	367117	124.89	ug/L		95
69)	1,3-Dichloropropane	13.52	76	219248	25.42	ug/L		92
70)	Dibromochloromethane	13.83	129	166957	25.24	ug/L		99
71)	1,2-Dibromoethane	14.07	107	139697	25.92	ug/L		100
72)	1-Chlorohexane	14.40	91	186687	25.98	ug/L		91
73)	Chlorobenzene	14.65	112	358574	26.37	ug/L		95
74)	1,1,1,2-Tetrachloroethane	14.73	131	150065	25.52	ug/L		98
75)	Ethylbenzene	14.66	91	647845	25.39	ug/L		99
76)	m,p-Xylene	14.81	91	1010513	51.46	ug/L		98
77)	o-Xylene	15.40	91	523886	25.64	ug/L		97
78)	Styrene	15.42	104	364108	25.06	ug/L		94
79)	Bromoform	15.82	173	112900	23.99	ug/L		97
81)	Isopropylbenzene	15.82	105	506232	26.09	ug/L		98
82)	Cyclohexanone	16.16	55	15882	98.89	ug/L	#	23
84)	Bromobenzene	16.43	156	179473	25.87	ug/L		100
85)	1,1,2,2-Tetrachloroethane	16.30	83	127728	24.09	ug/L		99
86)	Trans-1,4-Dichloro-2-Buten	16.37	53	35260	17.96	ug/L	#	88
87)	1,2,3-Trichloropropane	16.43	110	46931	23.21	ug/L		92
88)	n-Propylbenzene	16.37	91	654518	24.61	ug/L		100
89)	2-Chlorotoluene	16.62	91	482868	24.43	ug/L		99
90)	4-Chlorotoluene	16.76	91	452807	24.52	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020663.D Vial: 11
Acq On : 9 Oct 2009 4:01 pm Operator: AnjanaP
Sample : t39314-2msd Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:56:01 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

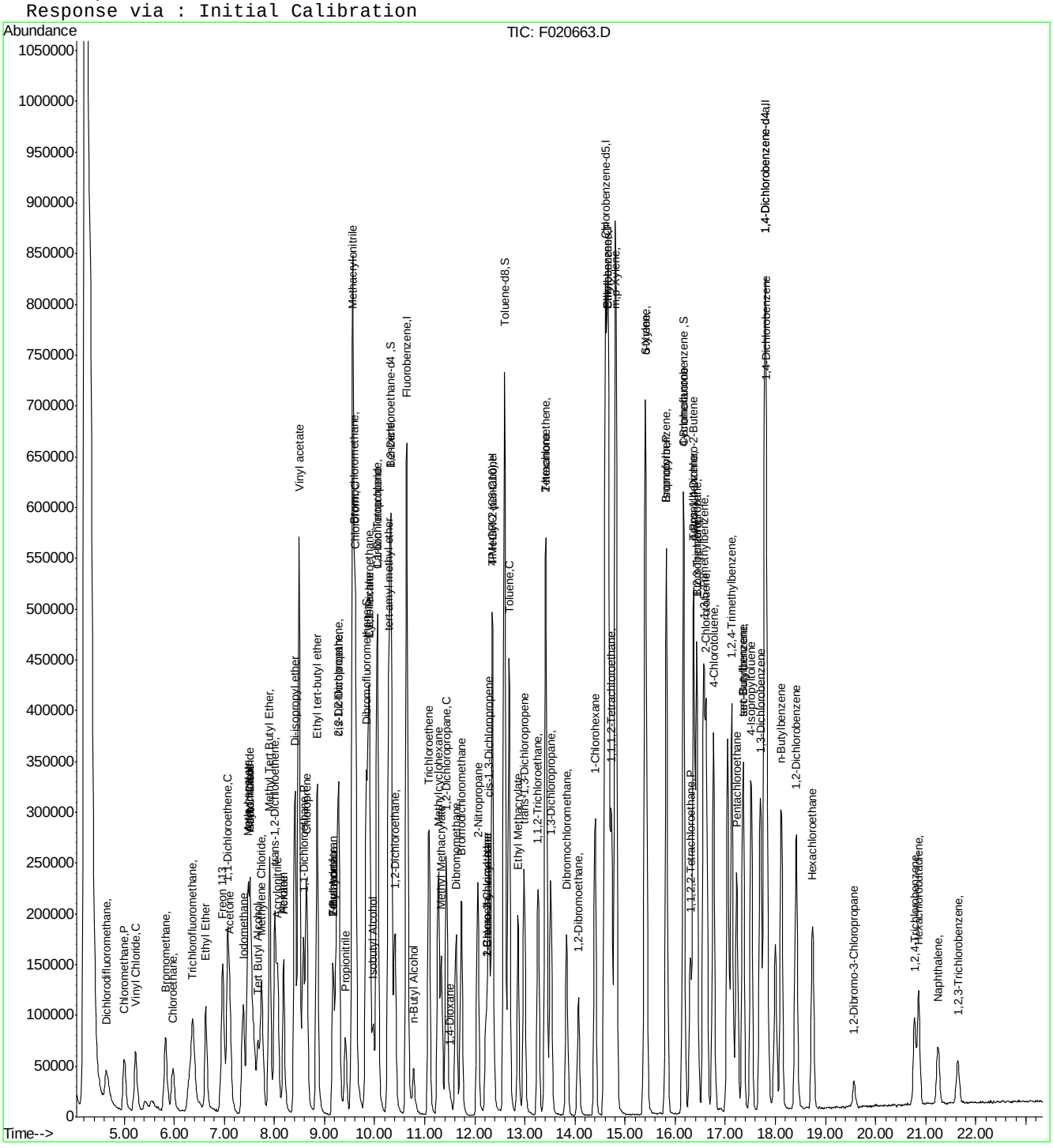
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.57	105	429587	24.41	ug/L	100
92)	Pentachloroethane	17.23	167	97569	21.81	uL/L	99
93)	sec-Butylbenzene	17.36	105	457029	23.55	ug/L	100
94)	1,3-Dichlorobenzene	17.70	146	270307	24.95	ug/L	99
95)	4-Isopropyltoluene	17.51	119	365439	23.16	ug/L	100
96)	1,4-Dichlorobenzene	17.83	146	279969	25.09	ug/L	95
97)	tert-Butylbenzene	17.36	91	81099	23.85	ug/L	92
98)	n-Butylbenzene	18.11	91	342834	22.44	ug/L	100
99)	1,2-Dichlorobenzene	18.42	146	245564	24.16	ug/L	96
100)	1,2,4-Trimethylbenzene	17.13	105	435755	23.17	ug/L	100
101)	Hexachloroethane	18.74	119	80738	21.59	uL/L	97
102)	1,2-Dibromo-3-Chloropropan	19.57	75	15887	16.09	ug/L	93
103)	1,2,4-Trichlorobenzene	20.78	180	66748	11.67	ug/L	96
104)	Hexachlorobutadiene	20.86	225	48641	19.36	ug/L	93
105)	Naphthalene	21.24	128	113245	13.95	ug/L	99
106)	1,2,3-Trichlorobenzene	21.65	180	36852	11.33	ug/L	93
108)	TPH-GRO (C6-C10)	12.34	TIC	48844383m	1873.51	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020663.D Vial: 11
Acq On : 9 Oct 2009 4:01 pm Operator: AnjanaP
Sample : t39314-2msd Inst : GC/MS F
Misc : ms7099,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:03 2009 Quant Results File: VF3547AP9G.RES

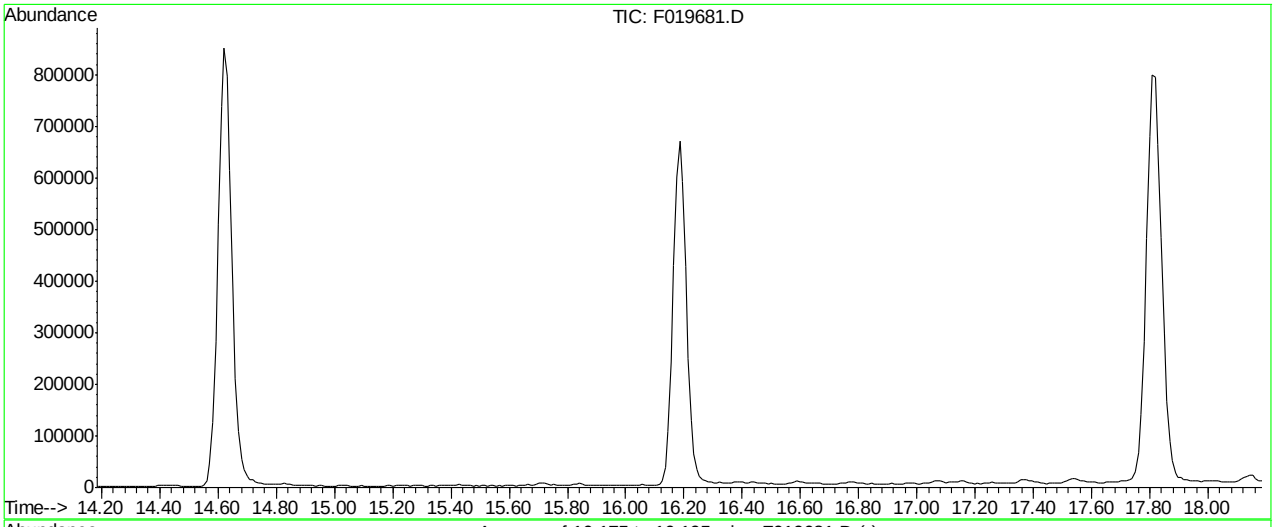
Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration

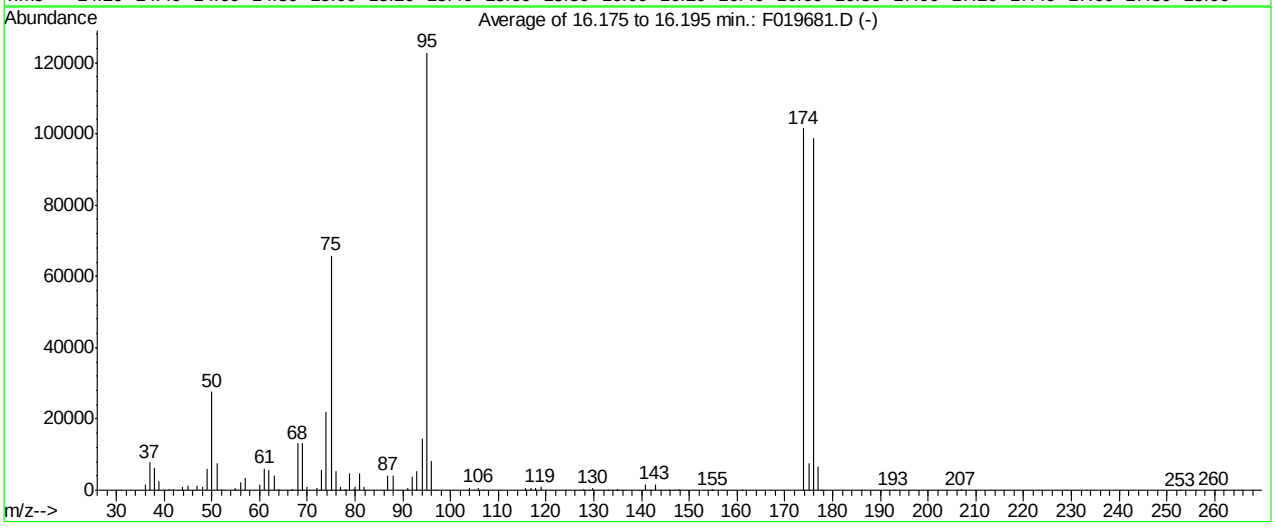


ACCUTEST Laboratories T39423

Methods: SW-846 8260B

Data File : C:\MSDCHEM\2\DATA\VF3548\F019681.D Vial: 5
Acq On : 14 Sep 2009 11:58 am Operator: AnjanaP
Sample : bfb Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624





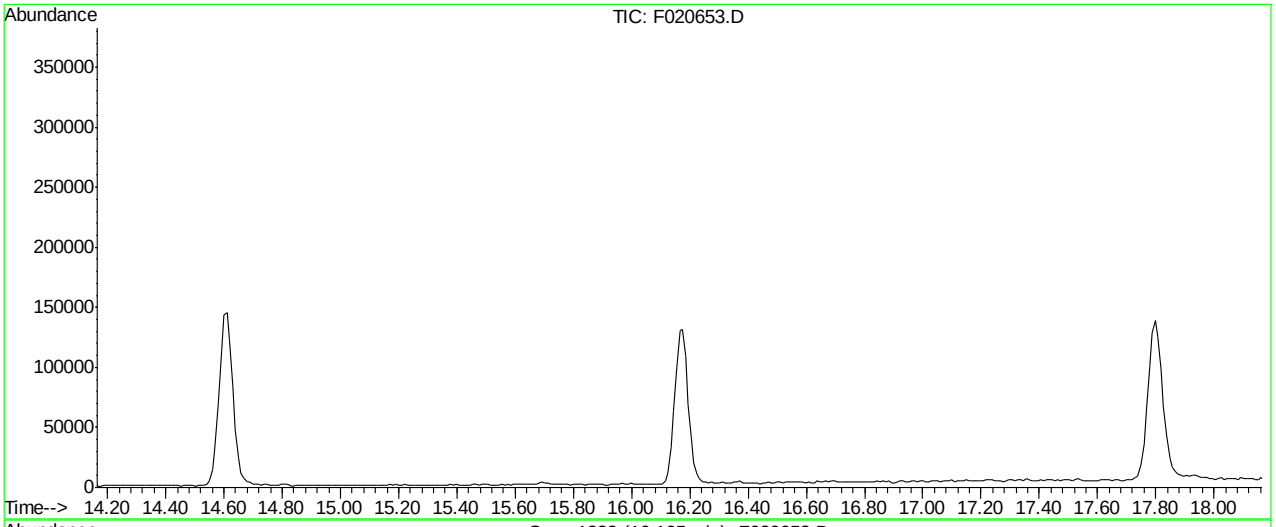
AutoFind: Scans 1233, 1234, 1235; Background Corrected with Scan 1224

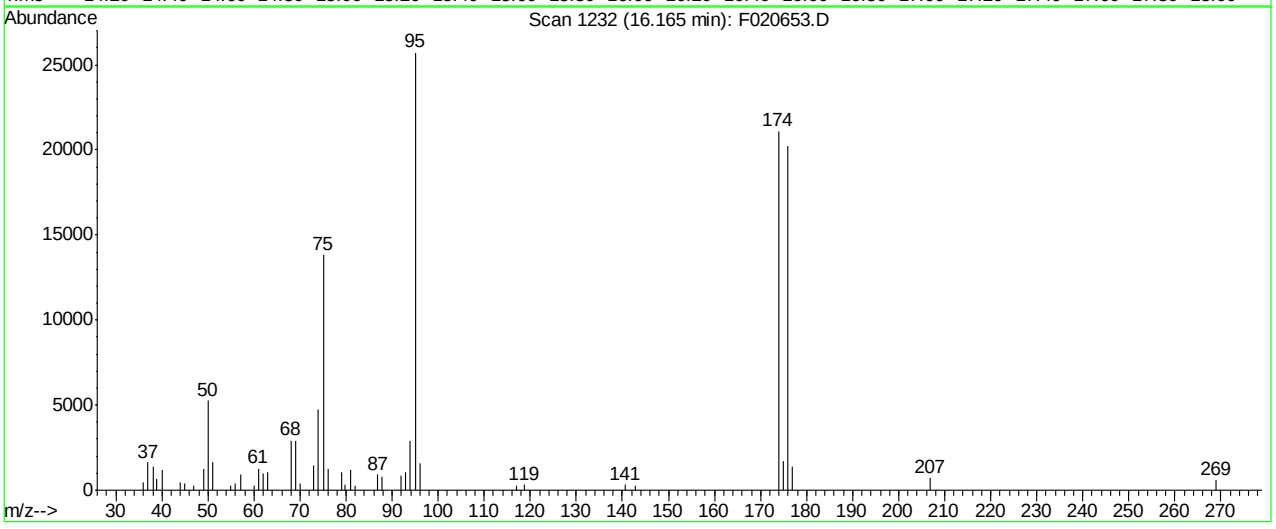
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	27589	PASS
75	95	30	60	53.6	65813	PASS
95	95	100	100	100.0	122850	PASS
96	95	5	9	6.8	8327	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.7	101570	PASS
175	174	5	9	7.5	7649	PASS
176	174	95	101	97.1	98674	PASS
177	176	5	9	6.7	6644	PASS

F019681.D VF3547.M Tue Sep 15 09:55:18 2009

Methods: SW-846 8260B

Data File : C:\MSDCHEM\2\DATA\VF3596\F020653.D Vial: 1
Acq On : 9 Oct 2009 10:39 am Operator: AnjanaP
Sample : bfb Inst : GC/MS F
Misc : ms7097,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624





Spectrum Information: Scan 1232

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	5265	PASS
75	95	30	60	53.7	13821	PASS
95	95	100	100	100.0	25728	PASS
96	95	5	9	6.1	1582	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.0	21096	PASS
175	174	5	9	8.1	1707	PASS
176	174	95	101	95.8	20216	PASS
177	176	5	9	6.9	1389	PASS

F020653.D VF3547AP9G.M Mon Oct 12 11:48:09 2009

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09:41 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:08:34 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	956208	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.63	117	697608	50.00	ug/L	-0.01
71) 1,4-Dichlorobenzene-d4	17.81	152	394454	50.00	ug/L	-0.01
96) 1,4-Dichlorobenzene-d4a	17.81	152	394454	50.00	ug/kg	-0.01

System Monitoring Compounds						
33) Dibromofluoromethane	9.85	113	6329	1.06	ug/L	-0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 2.12%#			
38) 1,2-Dichloroethane-d4	10.34	65	9407	1.12	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 2.24%#			
54) Toluene-d8	12.62	98	20214	1.27	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 2.54%#			
74) 4-Bromofluorobenzene	16.19	95	10654	1.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 2.92%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.70	85	5573	0.84	ug/L	92
3) Chloromethane	5.04	50	6800	1.03	ug/L	93
4) Vinyl Chloride	5.29	62	4453	0.83	ug/L #	44
5) Bromomethane	5.88	94	4656	1.29	ug/L	87
6) Chloroethane	6.02	64	3011	1.14	ug/L	73
7) Trichlorofluoromethane	6.36	101	9437	1.10	ug/L	81
8) Acrolein	8.21	56	2060	5.29	ug/L	59
9) Ethyl Ether	6.67	59	3720	1.06	ug/L	88
10) 1,1-Dichloroethene	7.10	61	6980	1.03	ug/L	95
11) Freon 113	6.97	101	3967	0.94	ug/L	88
12) Acetone	7.15	43	16378	12.10	ug/L	82
13) Iodomethane	7.41	142	7314	0.89	ug/L #	91
14) Methyl acetate	7.50	43	20795	7.54	ug/L	90
15) Carbon Disulfide	7.54	76	13743	1.04	ug/L	96
16) Methylene Chloride	7.78	49	9543	1.62	ug/L	84
17) Tert Butyl Alcohol	7.69	59	4649	11.24	ug/L	70
18) trans-1,2-Dichloroethene	8.04	61	6217	0.96	ug/L	86
19) Acrylonitrile	8.09	53	5791	5.52	ug/L	91
20) Methyl Tert Butyl Ether	7.92	73	15482	1.05	ug/L	93
21) Hexane	8.22	57	3470	1.10	ug/L	78
22) 1,1-Dichloroethane	8.60	63	7844	0.95	ug/L	97
23) Vinyl acetate	8.43	43	8397	5.80	ug/L	89
24) Di-isopropyl ether	8.43	45	17043	1.09	ug/L	93
25) Ethyl tert-butyl ether	8.87	59	15836	0.98	ug/L	94
26) 2,2-Dichloropropane	9.28	77	7239	1.07	ug/L	92
27) cis-1,2-Dichloroethene	9.31	96	5498	0.97	ug/L	96
28) 2-Butanone	9.20	43	21865	3.87	ug/L	100
29) Bromochloromethane	9.64	128	2400	0.82	ug/L	88
30) Chloroform	9.64	83	10452	0.93	ug/L	92
31) Tetrahydrofuran	9.20	42	3341	1.21	ug/L	75
32) 1,1,1-Trichloroethane	9.90	97	9311	0.97	ug/L	95
34) Cyclohexane	9.92	56	5124	0.99	ug/L	88
35) n-Butyl Alcohol	9.91	43	309	6.86	ug/L #	1
36) 1,1-Dichloropropene	10.07	75	6645	0.97	ug/L	96

(#) = qualifier out of range (m) = manual integration
F019682.D VF3547.M Tue Sep 15 09:55:39 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09:41 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:08:34 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	8163	0.99	ug/L		95
39)	Benzene	10.36	78	15506	0.99	ug/L		98
40)	1,2-Dichloroethane	10.42	62	9792	1.01	ug/L		94
41)	tert-amyl methyl ether	10.31	73	15768	1.09	ug/L		86
42)	Trichloroethene	11.10	95	10733	1.94	ug/L		98
43)	Methylcyclohexane	11.29	83	4948	1.03	ug/L		95
44)	1,2-Dichloropropane	11.46	63	3850	1.00	ug/L		87
45)	Dibromomethane	11.65	93	3620	0.92	ug/L		93
47)	Bromodichloromethane	11.75	83	9855	1.04	ug/L		97
48)	2-Nitropropane	12.08	41	10680	5.40	ug/L		91
49)	2-Chloroethyl vinyl ether	12.01	63	9868	4.70	ug/L		84
50)	1-Bromo-2-Chloroethane	12.25	63	5967	1.06	uL/L		94
51)	4-Methyl-2-pentanone	12.38	43	21101	5.74	ug/L		96
52)	cis-1,3-Dichloropropene	12.30	75	8656	0.99	ug/L		96
55)	Toluene	12.71	91	19583	1.07	ug/L		96
56)	trans-1,3-Dichloropropene	13.01	75	8212	0.98	ug/L		89
57)	1,1,2-Trichloroethane	13.29	83	3637	1.06	ug/L		93
58)	Tetrachloroethene	13.43	166	6155	1.09	ug/L		90
59)	2-hexanone	13.44	43	14675	5.48	ug/L		97
60)	1,3-Dichloropropane	13.54	76	8286	1.07	ug/L		88
61)	Dibromochloromethane	13.87	129	5946	0.94	ug/L		93
62)	1,2-Dibromoethane	14.09	107	4835	0.98	ug/L		83
63)	1-Chlorohexane	14.43	91	6754	1.04	ug/L		91
64)	Chlorobenzene	14.68	112	13385	1.08	ug/L		97
65)	1,1,1,2-Tetrachloroethane	14.75	131	5410	0.97	ug/L	#	70
66)	Ethylbenzene	14.68	91	25295	1.08	ug/L		92
67)	m,p-Xylene	14.83	91	37073	2.03	ug/L		98
68)	o-Xylene	15.41	91	19304	1.01	ug/L		99
69)	Styrene	15.44	104	12803	0.93	ug/L		96
70)	Bromoform	15.84	173	4214	0.92	ug/L		92
72)	Isopropylbenzene	15.85	105	17798	1.04	ug/L		94
73)	Cyclohexanone	16.16	55	544	3.78	ug/L	#	27
75)	Bromobenzene	16.46	156	6422	1.04	ug/L		91
76)	1,1,2,2-Tetrachloroethane	16.33	83	5303	1.13	ug/L		83
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	1873	0.98	ug/L	#	87
78)	1,2,3-Trichloropropane	16.46	110	2029	1.12	ug/L		75
79)	n-Propylbenzene	16.39	91	25454	1.08	ug/L		100
80)	2-Chlorotoluene	16.64	91	20035	1.15	ug/L		96
81)	4-Chlorotoluene	16.79	91	18670	1.14	ug/L		92
82)	1,3,5-Trimethylbenzene	16.59	105	16231	1.03	ug/L		96
83)	sec-Butylbenzene	17.38	105	19271	1.12	ug/L		99
84)	1,3-Dichlorobenzene	17.73	146	9900	1.00	ug/L		90
85)	4-Isopropyltoluene	17.54	119	15037	1.08	ug/L		99
86)	1,4-Dichlorobenzene	17.73	146	9900	0.95	ug/L		89
87)	tert-Butylbenzene	17.55	91	5185	1.66	ug/L	#	68
88)	n-Butylbenzene	18.15	91	16098	1.13	ug/L		94
89)	1,2-Dichlorobenzene	18.43	146	9891	1.02	ug/L		92
90)	1,2,4-Trimethylbenzene	17.15	105	17749	1.05	ug/L		89
91)	1,2-Dibromo-3-Chloropropan	19.59	75	1180	1.16	ug/L	#	52

(#) = qualifier out of range (m) = manual integration
F019682.D VF3547.M Tue Sep 15 09:55:39 2009

ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09:41 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:08:34 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

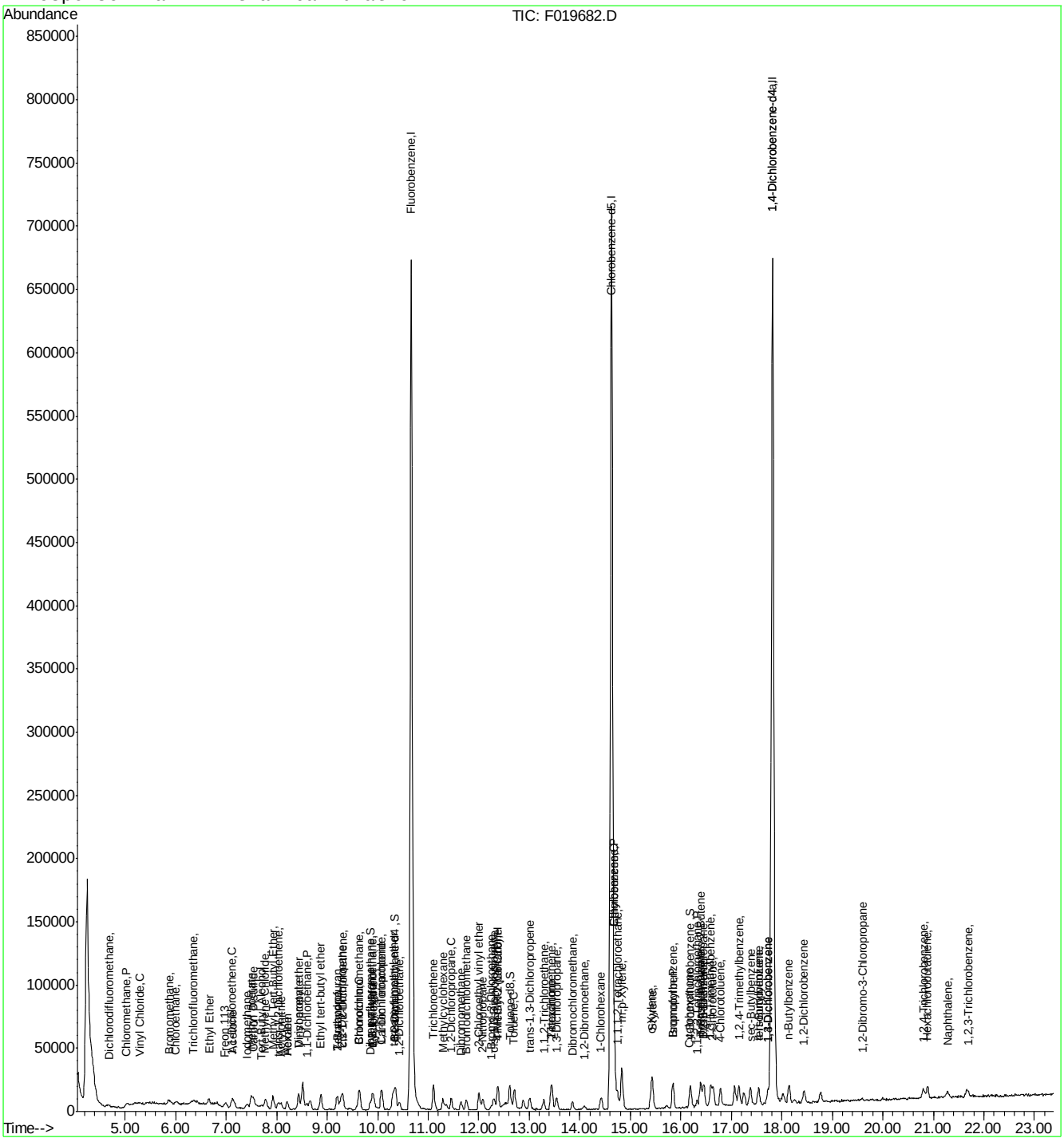
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92) 1,2,4-Trichlorobenzene	20.81	180	6329	1.10	ug/L	92
93) Hexachlorobutadiene	20.88	225	4084	1.58	ug/L	94
94) Naphthalene	21.28	128	10874	1.28	ug/L	98
95) 1,2,3-Trichlorobenzene	21.68	180	4991	1.57	ug/L	90
97) TPH-GRO (C6-C10)	12.39	TIC	184556m	5.23	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:05 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:10:47 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	947288	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	695473	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.82	152	390028	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.82	152	390028	50.00	ug/kg	0.00

System Monitoring Compounds						
33) Dibromofluoromethane	9.86	113	10997	1.80	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 3.60%#			
38) 1,2-Dichloroethane-d4	10.34	65	16182	1.84	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 3.68%#			
54) Toluene-d8	12.62	98	32778	1.82	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 3.64%#			
74) 4-Bromofluorobenzene	16.19	95	15304	1.72	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 3.44%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.68	85	10398	1.72	ug/L	96
3) Chloromethane	5.04	50	8884	1.34	ug/L	88
4) Vinyl Chloride	5.28	62	7538	1.59	ug/L	98
5) Bromomethane	5.87	94	8374	2.05	ug/L	86
6) Chloroethane	6.03	64	4985	1.77	ug/L	97
7) Trichlorofluoromethane	6.36	101	17233	1.93	ug/L	97
8) Acrolein	8.21	56	4442	11.19	ug/L	59
9) Ethyl Ether	6.66	59	7617	2.13	ug/L	93
10) 1,1-Dichloroethene	7.11	61	14802	2.17	ug/L	98
11) Freon 113	7.00	101	9430	2.31	ug/L	89
12) Acetone	7.16	43	22736	10.04	ug/L	98
13) Iodomethane	7.42	142	15389	2.00	ug/L	97
14) Methyl acetate	7.51	43	32239	9.41	ug/L	95
15) Carbon Disulfide	7.55	76	26918	2.02	ug/L	99
16) Methylene Chloride	7.79	49	14838	1.94	ug/L	91
17) Tert Butyl Alcohol	7.71	59	8508	19.55	ug/L	86
18) trans-1,2-Dichloroethene	8.03	61	12921	2.05	ug/L	91
19) Acrylonitrile	8.09	53	11329	10.36	ug/L	94
20) Methyl Tert Butyl Ether	7.93	73	30605	2.04	ug/L	97
21) Hexane	8.21	57	7369	2.25	ug/L	94
22) 1,1-Dichloroethane	8.61	63	16703	2.09	ug/L	92
23) Vinyl acetate	8.44	43	14233	9.19	ug/L	88
24) Di-isopropyl ether	8.44	45	30683	1.89	ug/L	98
25) Ethyl tert-butyl ether	8.88	59	30080	1.89	ug/L	92
26) 2,2-Dichloropropane	9.29	77	14488	2.09	ug/L	99
27) cis-1,2-Dichloroethene	9.31	96	11621	2.11	ug/L	94
28) 2-Butanone	9.20	43	58802	11.84	ug/L	100
29) Bromochloromethane	9.65	128	5581	2.11	ug/L	98
30) Chloroform	9.65	83	22923	2.13	ug/L	98
31) Tetrahydrofuran	9.21	42	4525	1.45	ug/L	78
32) 1,1,1-Trichloroethane	9.90	97	19652	2.10	ug/L	94
34) Cyclohexane	9.93	56	11839	2.32	ug/L	83
35) n-Butyl Alcohol	9.92	43	1980	47.24	ug/L #	28
36) 1,1-Dichloropropene	10.08	75	14123	2.11	ug/L	96

(#) = qualifier out of range (m) = manual integration
F019683.D VF3547.M Tue Sep 15 09:55:41 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:05 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:10:47 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Carbon Tetrachloride	10.08	117	16977	2.09	ug/L		98
39) Benzene	10.36	78	32415	2.10	ug/L		87
40) 1,2-Dichloroethane	10.43	62	18959	1.96	ug/L		95
41) tert-amyl methyl ether	10.31	73	29652	1.98	ug/L		96
42) Trichloroethene	11.11	95	15738	1.95	ug/L		97
43) Methylcyclohexane	11.30	83	10094	2.09	ug/L		96
44) 1,2-Dichloropropane	11.46	63	7906	2.07	ug/L		93
45) Dibromomethane	11.65	93	7546	2.01	ug/L		82
46) 1,4-Dioxane	11.56	88	1216	29.28	ug/L	#	63
47) Bromodichloromethane	11.76	83	18337	1.91	ug/L		96
48) 2-Nitropropane	12.09	41	21935	10.76	ug/L		98
49) 2-Chloroethyl vinyl ether	12.01	63	18258	9.05	ug/L		88
50) 1-Bromo-2-Chloroethane	12.25	63	11589	2.02	uL/L		100
51) 4-Methyl-2-pentanone	12.38	43	39511	10.10	ug/L		97
52) cis-1,3-Dichloropropene	12.30	75	16922	1.96	ug/L		89
55) Toluene	12.71	91	39063	2.07	ug/L		96
56) trans-1,3-Dichloropropene	13.01	75	16632	2.01	ug/L		96
57) 1,1,2-Trichloroethane	13.29	83	7295	2.07	ug/L		94
58) Tetrachloroethene	13.43	166	12622	2.15	ug/L		96
59) 2-hexanone	13.45	43	28082	10.03	ug/L		98
60) 1,3-Dichloropropane	13.54	76	16463	2.06	ug/L		91
61) Dibromochloromethane	13.86	129	12213	1.99	ug/L		96
62) 1,2-Dibromoethane	14.09	107	10279	2.11	ug/L		93
63) 1-Chlorohexane	14.43	91	13749	2.08	ug/L		93
64) Chlorobenzene	14.67	112	25180	1.96	ug/L		89
65) 1,1,1,2-Tetrachloroethane	14.75	131	11592	2.11	ug/L		85
66) Ethylbenzene	14.68	91	50842	2.10	ug/L		98
67) m,p-Xylene	14.83	91	77707	4.23	ug/L		93
68) o-Xylene	15.42	91	40204	2.10	ug/L		94
69) Styrene	15.45	104	26449	2.00	ug/L		95
70) Bromoform	15.85	173	9275	2.11	ug/L		87
72) Isopropylbenzene	15.85	105	37212	2.16	ug/L		96
73) Cyclohexanone	16.20	55	1896	14.49	ug/L	#	71
75) Bromobenzene	16.47	156	13766	2.21	ug/L		98
76) 1,1,2,2-Tetrachloroethane	16.33	83	10422	2.11	ug/L		93
77) Trans-1,4-Dichloro-2-Buten	16.40	53	3664	1.96	ug/L	#	93
78) 1,2,3-Trichloropropane	16.47	110	3958	2.09	ug/L		79
79) n-Propylbenzene	16.40	91	51663	2.13	ug/L		98
80) 2-Chlorotoluene	16.64	91	38927	2.10	ug/L		97
81) 4-Chlorotoluene	16.79	91	36634	2.11	ug/L		99
82) 1,3,5-Trimethylbenzene	16.59	105	34365	2.17	ug/L		96
83) sec-Butylbenzene	17.38	105	37811	2.10	ug/L		97
84) 1,3-Dichlorobenzene	17.73	146	21717	2.22	ug/L		94
85) 4-Isopropyltoluene	17.55	119	30960	2.16	ug/L		99
86) 1,4-Dichlorobenzene	17.73	146	21717	2.16	ug/L		95
87) tert-Butylbenzene	17.39	91	8158	2.00	ug/L		91
88) n-Butylbenzene	18.15	91	29139	1.94	ug/L		98
89) 1,2-Dichlorobenzene	18.44	146	19585	2.02	ug/L		95
90) 1,2,4-Trimethylbenzene	17.15	105	35759	2.08	ug/L		93

(#) = qualifier out of range (m) = manual integration
F019683.D VF3547.M Tue Sep 15 09:55:41 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:05 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:10:47 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

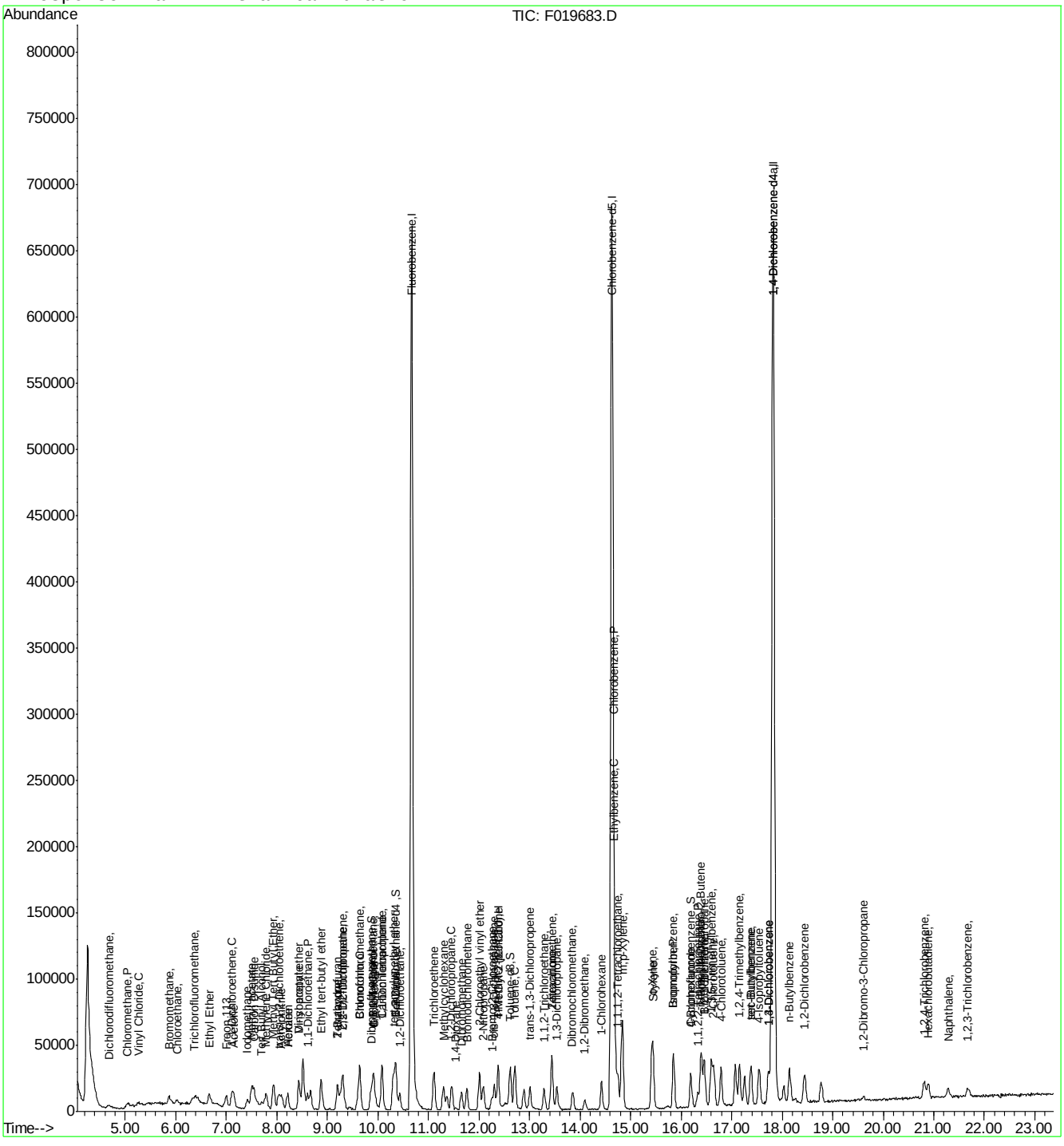
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	2425	2.24	ug/L	87
92)	1,2,4-Trichlorobenzene	20.81	180	9654	1.62	ug/L	97
93)	Hexachlorobutadiene	20.89	225	5689	1.73	ug/L	89
94)	Naphthalene	21.28	128	13984	1.46	ug/L	80
95)	1,2,3-Trichlorobenzene	21.67	180	6548	1.62	ug/L	96
97)	TPH-GRO (C6-C10)	12.39	TIC	2699442m	77.34	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:34 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:23 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.68	96	1008594	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	729549	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.82	152	410756	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.82	152	410756	50.00	ug/kg	0.00

System Monitoring Compounds						
33) Dibromofluoromethane	9.86	113	31064	4.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 9.90%#			
38) 1,2-Dichloroethane-d4	10.35	65	45217	4.95	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 9.90%#			
54) Toluene-d8	12.63	98	89755	4.90	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 9.80%#			
74) 4-Bromofluorobenzene	16.20	95	39760	4.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 8.92%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.68	85	29821	4.85	ug/L	86
3) Chloromethane	5.05	50	23140	3.67	ug/L	96
4) Vinyl Chloride	5.28	62	21305	4.12	ug/L	88
5) Bromomethane	5.89	94	19688	4.48	ug/L	93
6) Chloroethane	6.04	64	13315	4.77	ug/L	95
7) Trichlorofluoromethane	6.36	101	44400	4.84	ug/L	97
8) Acrolein	8.22	56	11785	26.82	ug/L	82
9) Ethyl Ether	6.68	59	18019	4.63	ug/L	92
10) 1,1-Dichloroethene	7.12	61	36101	4.84	ug/L	98
11) Freon 113	7.01	101	25771	5.71	ug/L	95
12) Acetone	7.17	43	41431	22.55	ug/L	96
13) Iodomethane	7.43	142	40184	4.91	ug/L	99
14) Methyl acetate	7.51	43	73699	20.61	ug/L	98
15) Carbon Disulfide	7.55	76	72047	5.06	ug/L	92
16) Methylene Chloride	7.81	49	32591	4.05	ug/L	91
17) Tert Butyl Alcohol	7.71	59	20325	44.20	ug/L	94
18) trans-1,2-Dichloroethene	8.05	61	34084	5.04	ug/L	95
19) Acrylonitrile	8.11	53	28805	24.45	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	75043	4.67	ug/L	95
21) Hexane	8.23	57	19916	5.48	ug/L	88
22) 1,1-Dichloroethane	8.61	63	44913	5.20	ug/L	100
23) Vinyl acetate	8.45	43	37606	23.44	ug/L	90
24) Di-isopropyl ether	8.45	45	82350	4.86	ug/L	100
25) Ethyl tert-butyl ether	8.89	59	81971	4.93	ug/L	97
26) 2,2-Dichloropropane	9.30	77	39547	5.28	ug/L	94
27) cis-1,2-Dichloroethene	9.32	96	29452	4.93	ug/L	94
28) 2-Butanone	9.20	43	149763	26.69	ug/L	100
29) Bromochloromethane	9.64	128	14392	5.02	ug/L	92
30) Chloroform	9.66	83	57840	4.94	ug/L	98
31) Tetrahydrofuran	9.20	42	8848	3.10	ug/L	87
32) 1,1,1-Trichloroethane	9.91	97	50661	5.00	ug/L	95
34) Cyclohexane	9.93	56	29168	5.09	ug/L	94
35) n-Butyl Alcohol	9.92	43	3818	71.44	ug/L #	18
36) 1,1-Dichloropropene	10.09	75	37240	5.13	ug/L	99

(#) = qualifier out of range (m) = manual integration
F019684.D VF3547.M Tue Sep 15 09:55:44 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:34 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:23 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Carbon Tetrachloride	10.09	117	44794	5.11	ug/L		96
39) Benzene	10.37	78	86060	5.14	ug/L		97
40) 1,2-Dichloroethane	10.43	62	52070	5.10	ug/L		96
41) tert-amyl methyl ether	10.31	73	76052	4.78	ug/L		95
42) Trichloroethene	11.12	95	33956	3.99	ug/L		97
43) Methylcyclohexane	11.31	83	29121	5.57	ug/L		98
44) 1,2-Dichloropropane	11.48	63	20582	5.00	ug/L		92
45) Dibromomethane	11.65	93	21073	5.27	ug/L		94
46) 1,4-Dioxane	11.54	88	3921	98.57	ug/L		88
47) Bromodichloromethane	11.77	83	50417	5.02	ug/L		89
48) 2-Nitropropane	12.10	41	52088	23.41	ug/L		91
49) 2-Chloroethyl vinyl ether	12.02	63	47068	22.63	ug/L		99
50) 1-Bromo-2-Chloroethane	12.25	63	29153	4.76	uL/L		98
51) 4-Methyl-2-pentanone	12.38	43	97447	23.32	ug/L		98
52) cis-1,3-Dichloropropene	12.30	75	44008	4.82	ug/L		97
55) Toluene	12.72	91	100714	5.03	ug/L		98
56) trans-1,3-Dichloropropene	13.02	75	42958	4.94	ug/L		97
57) 1,1,2-Trichloroethane	13.30	83	18471	4.93	ug/L		96
58) Tetrachloroethene	13.44	166	32598	5.16	ug/L		98
59) 2-hexanone	13.46	43	67208	22.86	ug/L		99
60) 1,3-Dichloropropane	13.54	76	41077	4.86	ug/L		91
61) Dibromochloromethane	13.87	129	32217	5.02	ug/L		91
62) 1,2-Dibromoethane	14.10	107	25682	4.93	ug/L		89
63) 1-Chlorohexane	14.43	91	33997	4.84	ug/L		93
64) Chlorobenzene	14.69	112	65799	4.91	ug/L		96
65) 1,1,1,2-Tetrachloroethane	14.76	131	29707	5.07	ug/L		95
66) Ethylbenzene	14.69	91	125709	4.86	ug/L		97
67) m,p-Xylene	14.84	91	195713	9.97	ug/L		99
68) o-Xylene	15.42	91	100092	4.90	ug/L		98
69) Styrene	15.45	104	69831	5.03	ug/L		96
70) Bromoform	15.86	173	21839	4.65	ug/L		97
72) Isopropylbenzene	15.86	105	95203	5.11	ug/L		100
73) Cyclohexanone	16.19	55	4002	25.78	ug/L	#	77
75) Bromobenzene	16.47	156	33679	4.96	ug/L		94
76) 1,1,2,2-Tetrachloroethane	16.34	83	24048	4.54	ug/L		93
77) Trans-1,4-Dichloro-2-Buten	16.41	53	8874	4.54	ug/L	#	90
78) 1,2,3-Trichloropropane	16.46	110	9378	4.63	ug/L		95
79) n-Propylbenzene	16.40	91	129915	4.98	ug/L		98
80) 2-Chlorotoluene	16.65	91	98471	4.97	ug/L		97
81) 4-Chlorotoluene	16.79	91	87814	4.72	ug/L		99
82) 1,3,5-Trimethylbenzene	16.59	105	86438	5.04	ug/L		95
83) sec-Butylbenzene	17.39	105	93386	4.84	ug/L		98
84) 1,3-Dichlorobenzene	17.74	146	53052	4.97	ug/L		98
85) 4-Isopropyltoluene	17.55	119	76756	4.95	ug/L		95
86) 1,4-Dichlorobenzene	17.86	146	55913	5.15	ug/L		84
87) tert-Butylbenzene	17.39	91	18988	5.26	ug/L		93
88) n-Butylbenzene	18.15	91	72211	4.62	ug/L		99
89) 1,2-Dichlorobenzene	18.45	146	48843	4.76	ug/L		94
90) 1,2,4-Trimethylbenzene	17.16	105	93031	5.08	ug/L		93

(#) = qualifier out of range (m) = manual integration
F019684.D VF3547.M Tue Sep 15 09:55:44 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:34 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:23 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

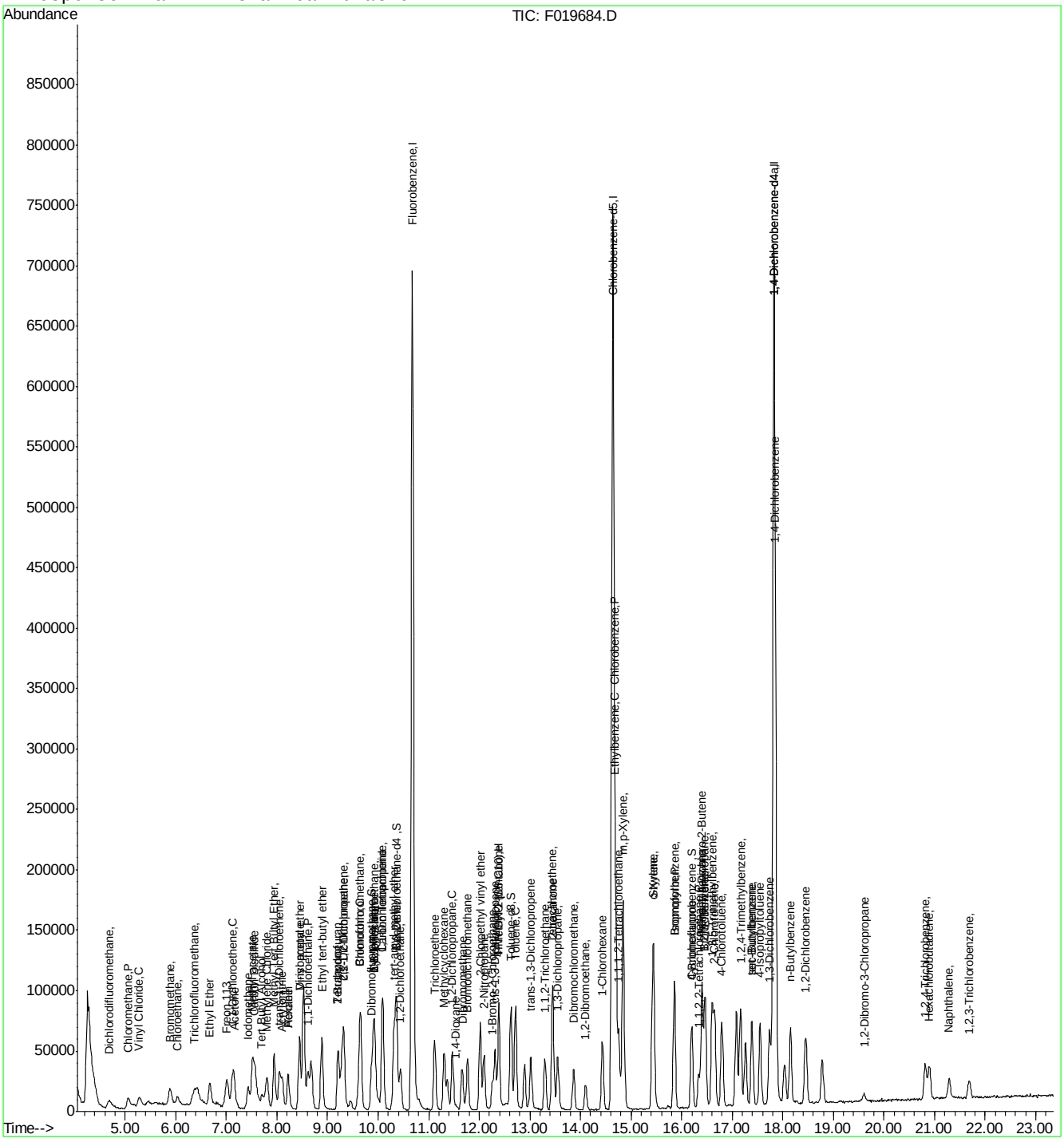
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	4739	3.99	ug/L	83
92)	1,2,4-Trichlorobenzene	20.82	180	22735	3.87	ug/L	98
93)	Hexachlorobutadiene	20.90	225	12032	3.63	ug/L	93
94)	Naphthalene	21.29	128	30446	3.32	ug/L	93
95)	1,2,3-Trichlorobenzene	21.69	180	13294	3.33	ug/L	93
97)	TPH-GRO (C6-C10)	12.39	TIC	9738984m	375.64	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:06 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:50 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	982414	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	707294	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.82	152	401382	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.82	152	401382	50.00	ug/kg	0.00

System Monitoring Compounds

33) Dibromofluoromethane	9.86	113	106812	17.51	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 35.02%#			
38) 1,2-Dichloroethane-d4	10.35	65	148375	16.72	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 33.44%#			
54) Toluene-d8	12.63	98	289415	16.38	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 32.76%#			
74) 4-Bromofluorobenzene	16.20	95	130166	15.35	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 30.70%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.68	85	100390	16.89	ug/L	96
3) Chloromethane	5.06	50	71796	12.53	ug/L	94
4) Vinyl Chloride	5.28	62	66013	12.48	ug/L	95
5) Bromomethane	5.88	94	63479	15.23	ug/L	93
6) Chloroethane	6.03	64	46084	17.07	ug/L	96
7) Trichlorofluoromethane	6.36	101	157594	17.84	ug/L	96
8) Acrolein	8.22	56	38236	87.74	ug/L	88
9) Ethyl Ether	6.67	59	63043	16.94	ug/L	99
10) 1,1-Dichloroethene	7.12	61	123920	17.18	ug/L	98
11) Freon 113	7.01	101	85797	19.61	ug/L	95
12) Acetone	7.16	43	122068	84.09	ug/L	96
13) Iodomethane	7.43	142	145509	18.34	ug/L	100
14) Methyl acetate	7.51	43	244928	73.55	ug/L	97
15) Carbon Disulfide	7.55	76	245809	17.66	ug/L	96
16) Methylene Chloride	7.80	49	107994	14.45	ug/L	97
17) Tert Butyl Alcohol	7.71	59	72450	166.59	ug/L	97
18) trans-1,2-Dichloroethene	8.04	61	120197	18.20	ug/L	97
19) Acrylonitrile	8.10	53	102041	89.42	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	263723	17.14	ug/L	96
21) Hexane	8.22	57	64717	17.85	ug/L	97
22) 1,1-Dichloroethane	8.61	63	146591	17.25	ug/L	99
23) Vinyl acetate	8.45	43	121689	79.10	ug/L	99
24) Di-isopropyl ether	8.45	45	279196	17.04	ug/L	98
25) Ethyl tert-butyl ether	8.89	59	287162	17.81	ug/L	99
26) 2,2-Dichloropropane	9.30	77	129113	17.46	ug/L	98
27) cis-1,2-Dichloroethene	9.32	96	104986	18.10	ug/L	94
28) 2-Butanone	9.20	43	502313	90.37	ug/L	100
29) Bromochloromethane	9.64	128	53369	19.08	ug/L	96
30) Chloroform	9.65	83	202549	17.81	ug/L	99
31) Tetrahydrofuran	9.20	42	49178	17.74	ug/L	95
32) 1,1,1-Trichloroethane	9.91	97	177308	17.97	ug/L	98
34) Cyclohexane	9.92	56	102404	18.27	ug/L	96
35) n-Butyl Alcohol	9.93	43	7905	159.60	ug/L	95
36) 1,1-Dichloropropene	10.08	75	131509	18.47	ug/L	94

(#) = qualifier out of range (m) = manual integration
F019685.D VF3547.M Tue Sep 15 09:55:47 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:06 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:50 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.09	117	153956	17.92	ug/L		98
39)	Benzene	10.36	78	296632	18.07	ug/L		93
40)	1,2-Dichloroethane	10.43	62	174702	17.47	ug/L		100
41)	tert-amyl methyl ether	10.31	73	264248	17.24	ug/L		100
42)	Trichloroethene	11.11	95	103308	13.13	ug/L		96
43)	Methylcyclohexane	11.31	83	95146	18.17	ug/L		99
44)	1,2-Dichloropropane	11.47	63	70640	17.62	ug/L		97
45)	Dibromomethane	11.65	93	70784	17.93	ug/L		97
46)	1,4-Dioxane	11.55	88	14565	345.03	ug/L		95
47)	Bromodichloromethane	11.76	83	168761	17.22	ug/L		98
48)	2-Nitropropane	12.09	41	187274	87.81	ug/L		98
49)	2-Chloroethyl vinyl ether	12.01	63	178146	90.07	ug/L		98
50)	1-Bromo-2-Chloroethane	12.25	63	101118	17.15	uL/L		97
51)	4-Methyl-2-pentanone	12.38	43	328138	81.99	ug/L		97
52)	cis-1,3-Dichloropropene	12.31	75	155974	17.69	ug/L		97
55)	Toluene	12.72	91	337327	17.36	ug/L		99
56)	trans-1,3-Dichloropropene	13.01	75	148986	17.73	ug/L		99
57)	1,1,2-Trichloroethane	13.30	83	62592	17.30	ug/L		97
58)	Tetrachloroethene	13.44	166	109099	17.68	ug/L		97
59)	2-hexanone	13.45	43	236631	84.85	ug/L		98
60)	1,3-Dichloropropane	13.54	76	143044	17.57	ug/L		96
61)	Dibromochloromethane	13.87	129	111979	17.97	ug/L		100
62)	1,2-Dibromoethane	14.10	107	90639	18.02	ug/L		97
63)	1-Chlorohexane	14.43	91	115505	17.09	ug/L		92
64)	Chlorobenzene	14.68	112	224020	17.33	ug/L		98
65)	1,1,1,2-Tetrachloroethane	14.75	131	97467	17.10	ug/L		98
66)	Ethylbenzene	14.69	91	411556	16.54	ug/L		99
67)	m,p-Xylene	14.84	91	650473	34.21	ug/L		99
68)	o-Xylene	15.42	91	334597	16.97	ug/L		97
69)	Styrene	15.45	104	240347	17.83	ug/L		95
70)	Bromoform	15.85	173	79979	17.89	ug/L		96
72)	Isopropylbenzene	15.86	105	319385	17.45	ug/L		99
73)	Cyclohexanone	16.19	55	12353	83.58	ug/L		93
75)	Bromobenzene	16.47	156	116972	17.67	ug/L		97
76)	1,1,2,2-Tetrachloroethane	16.33	83	84699	16.74	ug/L		99
77)	Trans-1,4-Dichloro-2-Buten	16.41	53	33357	17.87	ug/L	#	98
78)	1,2,3-Trichloropropane	16.47	110	33963	17.47	ug/L		89
79)	n-Propylbenzene	16.40	91	435765	17.11	ug/L		97
80)	2-Chlorotoluene	16.65	91	320598	16.57	ug/L		99
81)	4-Chlorotoluene	16.79	91	299961	16.74	ug/L		94
82)	1,3,5-Trimethylbenzene	16.59	105	292120	17.40	ug/L		95
83)	sec-Butylbenzene	17.39	105	314828	16.84	ug/L		99
84)	1,3-Dichlorobenzene	17.74	146	179536	17.25	ug/L		99
85)	4-Isopropyltoluene	17.55	119	263530	17.43	ug/L		99
86)	1,4-Dichlorobenzene	17.86	146	189030	17.68	ug/L		97
87)	tert-Butylbenzene	17.39	91	58310	17.97	ug/L		99
88)	n-Butylbenzene	18.15	91	246188	16.42	ug/L		99
89)	1,2-Dichlorobenzene	18.44	146	166804	16.85	ug/L		97
90)	1,2,4-Trimethylbenzene	17.16	105	311686	17.34	ug/L		98

(#) = qualifier out of range (m) = manual integration
F019685.D VF3547.M Tue Sep 15 09:55:47 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:06 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:50 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

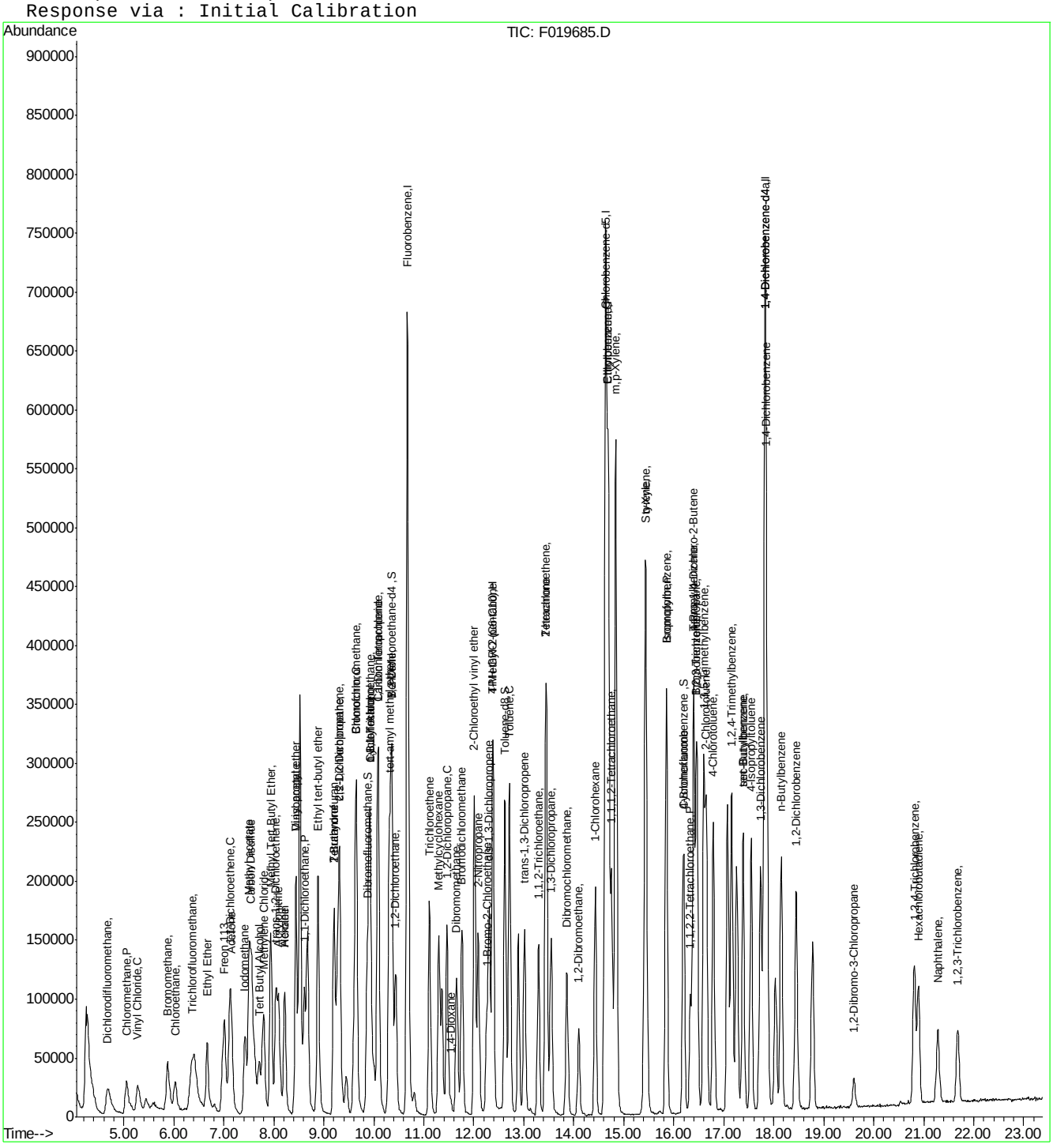
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	15869	14.40	ug/L	96
92)	1,2,4-Trichlorobenzene	20.81	180	86947	16.04	ug/L	98
93)	Hexachlorobutadiene	20.89	225	42424	14.07	ug/L	93
94)	Naphthalene	21.28	128	121677	14.82	ug/L	99
95)	1,2,3-Trichlorobenzene	21.68	180	48275	13.52	ug/L	98
97)	TPH-GRO (C6-C10)	12.39	TIC	34546709m	1035.15	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019685.D VF3547.M Tue Sep 15 09:55:48 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 09:01:13 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	954577	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	701182	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	427426	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	427426	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.87	113	238951	42.22	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 84.44%			
38) 1,2-Dichloroethane-d4	10.34	65	335120	42.13	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 84.26%			
54) Toluene-d8	12.62	98	639112	38.02	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 76.04%#			
74) 4-Bromofluorobenzene	16.19	95	316247	39.25	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 78.50%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.67	85	266054	49.63	ug/L	100
3) Chloromethane	5.06	50	264669	55.33	ug/L	100
4) Vinyl Chloride	5.29	62	214010	53.60	ug/L	100
5) Bromomethane	5.87	94	144081	47.44	ug/L	100
6) Chloroethane	6.02	64	105128	41.24	ug/L	100
7) Trichlorofluoromethane	6.37	101	343377	41.45	ug/L	100
8) Acrolein	8.21	56	77736	187.87	ug/L	100
9) Ethyl Ether	6.67	59	140119	40.75	ug/L	100
10) 1,1-Dichloroethene	7.12	61	270698	40.47	ug/L	100
11) Freon 113	7.01	101	168400	39.16	ug/L	100
12) Acetone	7.15	43	270151	217.67	ug/L	100
13) Iodomethane	7.43	142	326886	44.08	ug/L	100
14) Methyl acetate	7.51	43	550559	200.22	ug/L	100
15) Carbon Disulfide	7.55	76	527377	40.02	ug/L	100
16) Methylene Chloride	7.79	49	234689	41.84	ug/L	100
17) Tert Butyl Alcohol	7.70	59	165114	414.56	ug/L	100
18) trans-1,2-Dichloroethene	8.05	61	259932	41.69	ug/L	100
19) Acrylonitrile	8.11	53	209357	187.55	ug/L	100
20) Methyl Tert Butyl Ether	7.94	73	589203	41.71	ug/L	100
21) Hexane	8.21	57	125799	36.52	ug/L	100
22) 1,1-Dichloroethane	8.61	63	331206	42.05	ug/L	100
23) Vinyl acetate	8.44	43	288967	207.54	ug/L	100
24) Di-isopropyl ether	8.44	45	625383	40.58	ug/L	100
25) Ethyl tert-butyl ether	8.88	59	647936	42.79	ug/L	100
26) 2,2-Dichloropropane	9.30	77	269268	41.41	ug/L	100
27) cis-1,2-Dichloroethene	9.32	96	225201	41.55	ug/L	100
28) 2-Butanone	9.21	43	1126152	211.05	ug/L	100
29) Bromochloromethane	9.64	128	117515	43.80	ug/L	100
30) Chloroform	9.65	83	450607	43.16	ug/L	100
31) Tetrahydrofuran	9.21	42	110558	47.27	ug/L	100
32) 1,1,1-Trichloroethane	9.91	97	382857	42.54	ug/L	100
34) Cyclohexane	9.93	56	207457	38.31	ug/L	100
35) n-Butyl Alcohol	9.93	43	17974	362.44	ug/L	100
36) 1,1-Dichloropropene	10.08	75	274753	40.98	ug/L	100

(#) = qualifier out of range (m) = manual integration
F019686.D VF3547.M Tue Sep 15 09:55:50 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 09:01:13 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	328366	41.87 ug/L		100
39)	Benzene	10.36	78	627345	40.05 ug/L		100
40)	1,2-Dichloroethane	10.44	62	387366	42.62 ug/L		100
41)	tert-amyl methyl ether	10.31	73	579503	40.63 ug/L		100
42)	Trichloroethene	11.12	95	220655	41.78 ug/L		100
43)	Methylcyclohexane	11.30	83	192623	38.17 ug/L		100
44)	1,2-Dichloropropane	11.46	63	154466	40.07 ug/L		100
45)	Dibromomethane	11.66	93	157548	42.45 ug/L		100
46)	1,4-Dioxane	11.54	88	33481	865.16 ug/L		100
47)	Bromodichloromethane	11.77	83	378507	42.01 ug/L		100
48)	2-Nitropropane	12.09	41	394910	207.67 ug/L		100
49)	2-Chloroethyl vinyl ether	12.01	63	418987	211.18 ug/L		100
50)	1-Bromo-2-Chloroethane	12.26	63	224066	39.80 uL/L		100
51)	4-Methyl-2-pentanone	12.39	43	734477	197.20 ug/L		100
52)	cis-1,3-Dichloropropene	12.31	75	350871	41.68 ug/L		100
55)	Toluene	12.71	91	733307	38.99 ug/L		100
56)	trans-1,3-Dichloropropene	13.02	75	337363	41.35 ug/L		100
57)	1,1,2-Trichloroethane	13.29	83	138375	39.30 ug/L		100
58)	Tetrachloroethene	13.44	166	226077	38.24 ug/L		100
59)	2-hexanone	13.45	43	538811	199.75 ug/L		100
60)	1,3-Dichloropropane	13.55	76	310231	39.19 ug/L		100
61)	Dibromochloromethane	13.86	129	255260	42.06 ug/L		100
62)	1,2-Dibromoethane	14.10	107	198888	40.22 ug/L		100
63)	1-Chlorohexane	14.43	91	261886	39.72 ug/L		100
64)	Chlorobenzene	14.68	112	499033	39.99 ug/L		100
65)	1,1,1,2-Tetrachloroethane	14.76	131	224581	41.62 ug/L		100
66)	Ethylbenzene	14.70	91	939005	40.10 ug/L		100
67)	m,p-Xylene	14.84	91	1470428	81.60 ug/L		100
68)	o-Xylene	15.43	91	770587	41.11 ug/L		100
69)	Styrene	15.45	104	552734	41.46 ug/L		100
70)	Bromoform	15.85	173	184700	42.77 ug/L		100
72)	Isopropylbenzene	15.85	105	739251	38.20 ug/L		100
73)	Cyclohexanone	16.18	55	31173	191.85 ug/L		100
75)	Bromobenzene	16.46	156	267664	38.69 ug/L		100
76)	1,1,2,2-Tetrachloroethane	16.33	83	203689	38.51 ug/L		100
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	82619	42.19 ug/L	#	100
78)	1,2,3-Trichloropropane	16.46	110	78380	38.87 ug/L		100
79)	n-Propylbenzene	16.40	91	1023147	38.57 ug/L		100
80)	2-Chlorotoluene	16.65	91	754964	38.29 ug/L		100
81)	4-Chlorotoluene	16.79	91	710555	38.58 ug/L		100
82)	1,3,5-Trimethylbenzene	16.60	105	683562	38.94 ug/L		100
83)	sec-Butylbenzene	17.39	105	743028	38.38 ug/L		100
84)	1,3-Dichlorobenzene	17.74	146	426987	39.52 ug/L		100
85)	4-Isopropyltoluene	17.55	119	606270	38.52 ug/L		100
86)	1,4-Dichlorobenzene	17.87	146	450731	40.49 ug/L		100
87)	tert-Butylbenzene	17.39	91	135012	40.48 ug/L		100
88)	n-Butylbenzene	18.15	91	617060	40.50 ug/L		100
89)	1,2-Dichlorobenzene	18.45	146	422157	41.63 ug/L		100
90)	1,2,4-Trimethylbenzene	17.16	105	735859	39.22 ug/L		100

(#) = qualifier out of range (m) = manual integration
F019686.D VF3547.M Tue Sep 15 09:55:50 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 09:01:13 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

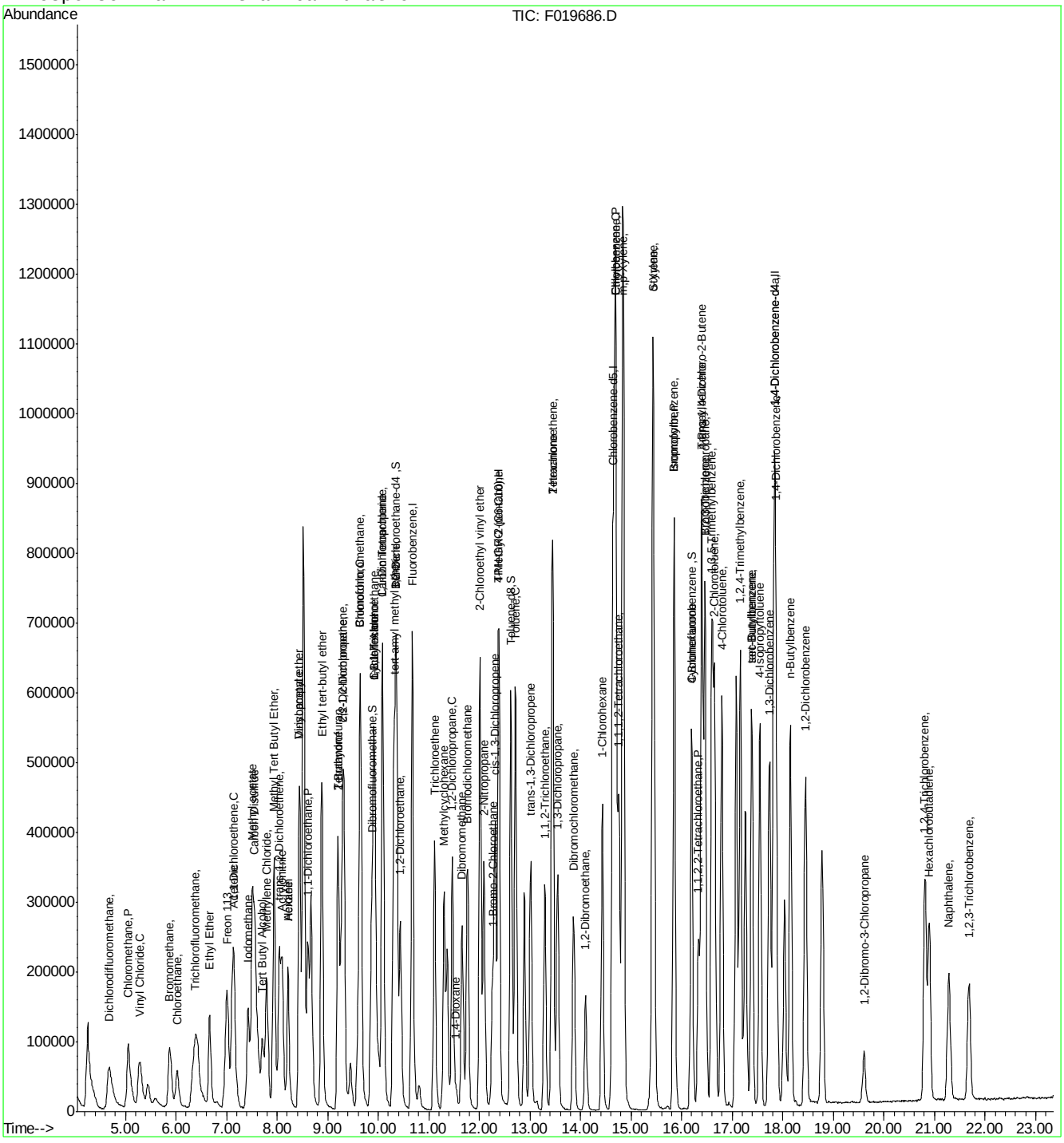
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.60	75	43953	50.61	ug/L	100
92) 1,2,4-Trichlorobenzene	20.82	180	248461	49.42	ug/L	100
93) Hexachlorobutadiene	20.90	225	111950	49.69	ug/L	100
94) Naphthalene	21.28	128	367955	50.16	ug/L	100
95) 1,2,3-Trichlorobenzene	21.69	180	137998	50.22	ug/L	100
97) TPH-GRO (C6-C10)	12.39	TIC	76500698m	1791.76	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 9:01 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:57 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:12:51 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	1439708	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	1021100	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	540849	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	540849	50.00	ug/kg	0.00

System Monitoring Compounds

33) Dibromofluoromethane	9.87	113	807310	92.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 185.20%#			
38) 1,2-Dichloroethane-d4	10.34	65	1063847	84.60	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 169.20%#			
54) Toluene-d8	12.62	98	2357599	95.89	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 191.78%#			
74) 4-Bromofluorobenzene	16.19	95	1035681	95.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 190.16%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.68	85	713289	84.53	ug/L	99
3) Chloromethane	5.07	50	676020	87.04	ug/L	99
4) Vinyl Chloride	5.28	62	559205	73.01	ug/L	98
5) Bromomethane	5.87	94	428867	73.74	ug/L	98
6) Chloroethane	6.02	64	358141	92.25	ug/L	99
7) Trichlorofluoromethane	6.37	101	1111860	87.27	ug/L	100
8) Acrolein	8.21	56	316751	508.45	ug/L	96
9) Ethyl Ether	6.66	59	485395	91.81	ug/L	97
10) 1,1-Dichloroethene	7.12	61	943733	91.89	ug/L	99
11) Freon 113	7.01	101	591511	93.75	ug/L	96
12) Acetone	7.15	43	916749	469.37	ug/L	93
13) Iodomethane	7.43	142	1065520	93.20	ug/L	95
14) Methyl acetate	7.51	43	2089611	452.08	ug/L	99
15) Carbon Disulfide	7.55	76	1936962	97.23	ug/L	98
16) Methylene Chloride	7.79	49	837904	81.02	ug/L	97
17) Tert Butyl Alcohol	7.71	59	567512	921.23	ug/L	63
18) trans-1,2-Dichloroethene	8.05	61	910208	95.77	ug/L	97
19) Acrylonitrile	8.10	53	891951	544.90	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	1987039	90.71	ug/L	98
21) Hexane	8.21	57	518176	99.67	ug/L	92
22) 1,1-Dichloroethane	8.61	63	1116164	92.16	ug/L	97
23) Vinyl acetate	8.44	43	997670	461.82	ug/L	98
24) Di-isopropyl ether	8.44	45	2301021	98.74	ug/L	96
25) Ethyl tert-butyl ether	8.88	59	2225120	96.26	ug/L	99
26) 2,2-Dichloropropane	9.30	77	825455	78.15	ug/L	98
27) cis-1,2-Dichloroethene	9.32	96	765941	91.84	ug/L	98
28) 2-Butanone	9.20	43	4120207	515.98	ug/L	100
29) Bromochloromethane	9.64	128	402863	99.20	ug/L	95
30) Chloroform	9.65	83	1462582	89.73	ug/L	99
31) Tetrahydrofuran	9.21	42	346654	84.06	ug/L	99
32) 1,1,1-Trichloroethane	9.91	97	1231951	86.95	ug/L	100
34) Cyclohexane	9.93	56	848602	105.12	ug/L	91
35) n-Butyl Alcohol	9.93	43	79420	1236.15	ug/L #	85
36) 1,1-Dichloropropene	10.08	75	986569	96.04	ug/L	93

(#) = qualifier out of range (m) = manual integration
F019687.D VF3547.M Tue Sep 15 09:55:53 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:57 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:12:51 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	1071023	86.87	ug/L		98
39)	Benzene	10.36	78	2409380	102.15	ug/L		94
40)	1,2-Dichloroethane	10.44	62	1253971	87.79	ug/L		98
41)	tert-amyl methyl ether	10.31	73	2101536	96.23	ug/L		96
42)	Trichloroethene	11.12	95	785129	73.10	ug/L		97
43)	Methylcyclohexane	11.30	83	795530	105.60	ug/L		98
44)	1,2-Dichloropropane	11.46	63	599569	104.52	ug/L		88
45)	Dibromomethane	11.66	93	549422	96.98	ug/L		99
46)	1,4-Dioxane	11.55	88	131960	2102.77	ug/L		94
47)	Bromodichloromethane	11.77	83	1289830	92.39	ug/L		99
48)	2-Nitropropane	12.09	41	1247322	409.05	ug/L		97
49)	2-Chloroethyl vinyl ether	12.01	63	1693674	596.19	ug/L		97
50)	1-Bromo-2-Chloroethane	12.26	63	881945	105.06	uL/L		99
51)	4-Methyl-2-pentanone	12.39	43	2808613	496.74	ug/L		97
52)	cis-1,3-Dichloropropene	12.31	75	1308043	103.62	ug/L		92
55)	Toluene	12.72	91	2741568	100.37	ug/L		100
56)	trans-1,3-Dichloropropene	13.02	75	1201341	101.31	ug/L		96
57)	1,1,2-Trichloroethane	13.29	83	524828	103.29	ug/L		95
58)	Tetrachloroethene	13.44	166	837164	96.21	ug/L		99
59)	2-hexanone	13.46	43	2024231	518.47	ug/L		95
60)	1,3-Dichloropropane	13.55	76	1176042	102.56	ug/L		92
61)	Dibromochloromethane	13.86	129	889491	100.93	ug/L		100
62)	1,2-Dibromoethane	14.10	107	739771	103.91	ug/L		98
63)	1-Chlorohexane	14.43	91	999319	105.49	ug/L		92
64)	Chlorobenzene	14.68	112	1823936	100.40	ug/L		94
65)	1,1,1,2-Tetrachloroethane	14.76	131	756339	94.65	ug/L		97
66)	Ethylbenzene	14.70	91	3287572	94.78	ug/L		98
67)	m,p-Xylene	14.85	91	5105857	191.53	ug/L		96
68)	o-Xylene	15.43	91	2681391	97.16	ug/L		97
69)	Styrene	15.45	104	2052872	107.85	ug/L		95
70)	Bromoform	15.85	173	622075	98.47	ug/L		97
72)	Isopropylbenzene	15.86	105	2602686	108.28	ug/L		98
73)	Cyclohexanone	16.18	55	108933	567.14	ug/L		92
75)	Bromobenzene	16.46	156	900545	103.35	ug/L		98
76)	1,1,2,2-Tetrachloroethane	16.33	83	707704	107.29	ug/L		99
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	256272	104.12	ug/L	#	96
78)	1,2,3-Trichloropropane	16.46	110	259666	101.72	ug/L		90
79)	n-Propylbenzene	16.40	91	3495623	104.87	ug/L		100
80)	2-Chlorotoluene	16.65	91	2485836	98.74	ug/L		98
81)	4-Chlorotoluene	16.79	91	2358816	100.97	ug/L		96
82)	1,3,5-Trimethylbenzene	16.60	105	2301625	104.48	ug/L		100
83)	sec-Butylbenzene	17.40	105	2537476	104.04	ug/L		100
84)	1,3-Dichlorobenzene	17.74	146	1406651	103.12	ug/L		98
85)	4-Isopropyltoluene	17.55	119	2054969	103.55	ug/L		99
86)	1,4-Dichlorobenzene	17.87	146	1438104	102.21	ug/L		99
87)	tert-Butylbenzene	17.39	91	430884	103.50	ug/L		96
88)	n-Butylbenzene	18.15	91	1930950	99.13	ug/L		99
89)	1,2-Dichlorobenzene	18.46	146	1289612	99.82	ug/L		97
90)	1,2,4-Trimethylbenzene	17.17	105	2464214	104.50	ug/L		99

(#) = qualifier out of range (m) = manual integration
F019687.D VF3547.M Tue Sep 15 09:55:54 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:57 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:12:51 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	108606	77.50	ug/L	85
92)	1,2,4-Trichlorobenzene	20.82	180	634056	90.38	ug/L	98
93)	Hexachlorobutadiene	20.90	225	288330	75.43	ug/L	96
94)	Naphthalene	21.28	128	927652	88.41	ug/L	98
95)	1,2,3-Trichlorobenzene	21.69	180	343273	76.28	ug/L	98
97)	TPH-GRO (C6-C10)	12.39	TIC	262314999m	5167.96	ug/kg	

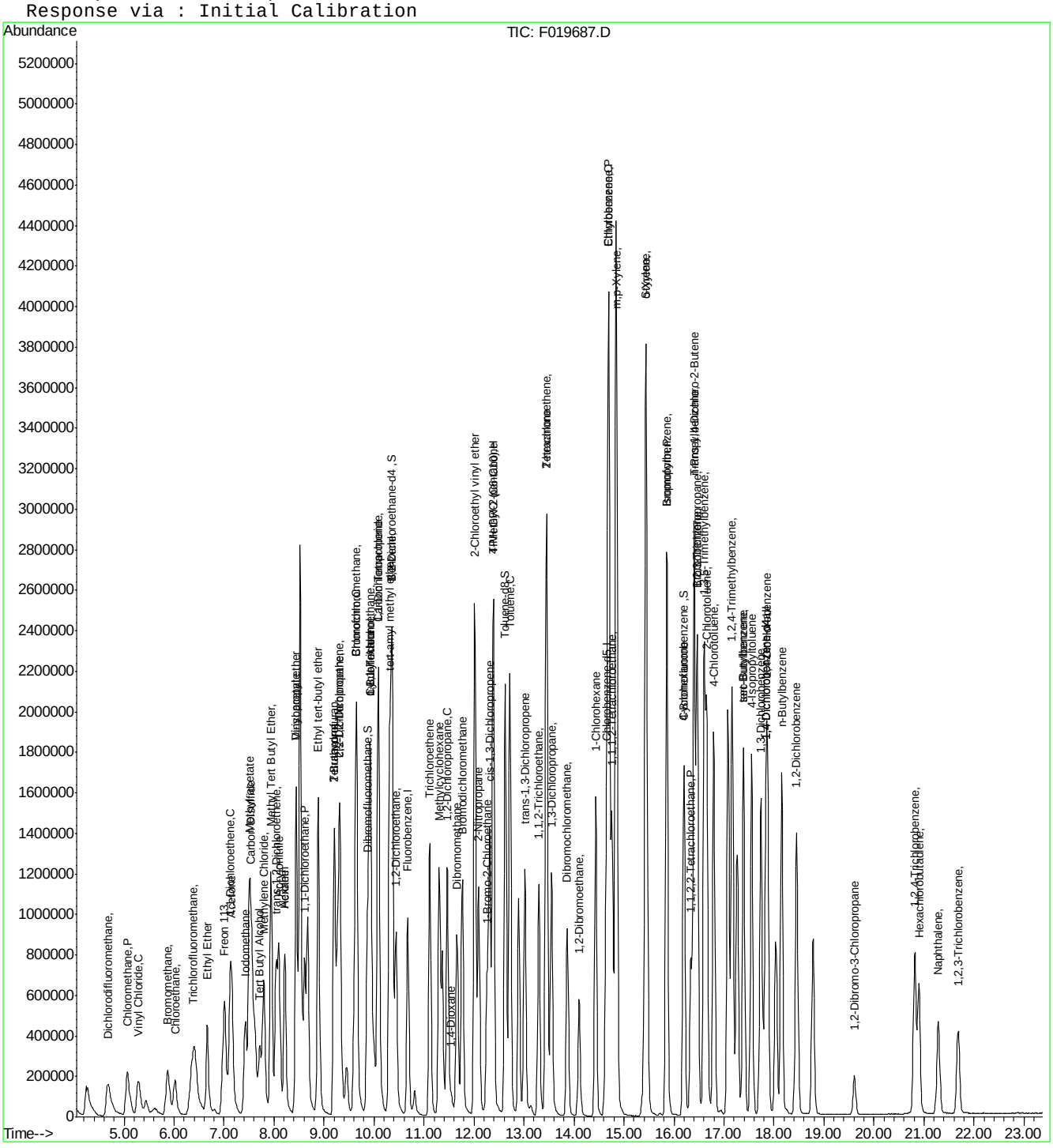
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

F019688.D

Manual Integrations APPROVED (compounds with "m" flag)

Jennifer Laidlaw 09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13:53 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:13:36 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	1476971	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	1025997	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	548707	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	548707	50.00	ug/kg	0.00

System Monitoring Compounds

33) Dibromofluoromethane	9.87	113	1659796	187.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 375.80%#			
38) 1,2-Dichloroethane-d4	10.34	65	2146010	170.73	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 341.46%#			
54) Toluene-d8	12.62	98	4995482	203.60	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 407.20%#			
74) 4-Bromofluorobenzene	16.19	95	2098803	191.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 382.98%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.68	85	1492242	176.93	ug/L	96
3) Chloromethane	5.07	50	1457668	186.98	ug/L	98
4) Vinyl Chloride	5.28	62	1220567	204.89	ug/L	96
5) Bromomethane	5.84	94	915186	160.41	ug/L	98
6) Chloroethane	6.01	64	793056	214.12	ug/L	99
7) Trichlorofluoromethane	6.35	101	2434945	211.03	ug/L	100
8) Acrolein	8.21	56	636030	992.40	ug/L	96
9) Ethyl Ether	6.66	59	1028447	192.23	ug/L	99
10) 1,1-Dichloroethene	7.12	61	2017355	194.10	ug/L	98
11) Freon 113	7.01	101	1303615	214.21	ug/L	94
12) Acetone	7.16	43	1840933	979.10	ug/L	92
13) Iodomethane	7.43	142	2147119	185.16	ug/L	94
14) Methyl acetate	7.51	43	4294360	920.34	ug/L	98
15) Carbon Disulfide	7.54	76	4135455	203.28	ug/L	97
16) Methylene Chloride	7.80	49	1712823	166.71	ug/L	99
17) Tert Butyl Alcohol	7.73	59	1143348	1833.21	ug/L	77
18) trans-1,2-Dichloroethene	8.05	61	1888547	195.08	ug/L	98
19) Acrylonitrile	8.11	53	1863395	1093.28	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	4050248	183.06	ug/L	97
21) Hexane	8.21	57	1065780	199.93	ug/L	89
22) 1,1-Dichloroethane	8.61	63	2348984	191.56	ug/L	96
23) Vinyl acetate	8.45	43	1952353	892.30	ug/L	97
24) Di-isopropyl ether	8.44	45	4754627	199.29	ug/L	94
25) Ethyl tert-butyl ether	8.88	59	4524258	191.99	ug/L	98
26) 2,2-Dichloropropane	9.30	77	1556808	149.10	ug/L	96
27) cis-1,2-Dichloroethene	9.33	96	1613625	191.19	ug/L	93
28) 2-Butanone	9.21	43	8380228	1017.58	ug/L	100
29) Bromochloromethane	9.64	128	819400	196.95	ug/L	96
30) Chloroform	9.65	83	2893627	176.06	ug/L	99
31) Tetrahydrofuran	9.21	42	701728	193.50	ug/L	97
32) 1,1,1-Trichloroethane	9.91	97	2429943	170.89	ug/L	99
34) Cyclohexane	9.94	56	1706287	204.29	ug/L	91
35) n-Butyl Alcohol	9.93	43	152172	1904.44	ug/L #	84
36) 1,1-Dichloropropene	10.08	75	1960437	187.26	ug/L	92

(#) = qualifier out of range (m) = manual integration
F019688.D VF3547.M Tue Sep 15 09:55:56 2009

ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13:53 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:13:36 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	2141524	173.11	ug/L		98
39)	Benzene	10.36	78	4786563	197.10	ug/L		95
40)	1,2-Dichloroethane	10.44	62	2460607	171.40	ug/L		97
41)	tert-amyl methyl ether	10.31	73	4180960	187.79	ug/L		97
42)	Trichloroethene	11.12	95	1598004	151.83	ug/L		98
43)	Methylcyclohexane	11.30	83	1569193	201.16	ug/L		99
44)	1,2-Dichloropropane	11.47	63	1234605	208.23	ug/L		86
45)	Dibromomethane	11.66	93	1100434	190.29	ug/L		98
46)	1,4-Dioxane	11.55	88	269055	3961.68	ug/L		92
47)	Bromodichloromethane	11.77	83	2550542	180.37	ug/L		100
48)	2-Nitropropane	12.10	41	2395577	789.74	ug/L		97
49)	2-Chloroethyl vinyl ether	12.01	63	3441389	1144.15	ug/L		98
50)	1-Bromo-2-Chloroethane	12.26	63	1773914	204.27	uL/L		99
51)	4-Methyl-2-pentanone	12.39	43	5575494	962.26	ug/L		96
52)	cis-1,3-Dichloropropene	12.32	75	2601305	199.67	ug/L		90
55)	Toluene	12.72	91	5568197	202.75	ug/L		99
56)	trans-1,3-Dichloropropene	13.02	75	2382181	199.49	ug/L		95
57)	1,1,2-Trichloroethane	13.30	83	1051897	204.91	ug/L		93
58)	Tetrachloroethene	13.44	166	1684894	193.94	ug/L		99
59)	2-hexanone	13.46	43	3946765	999.92	ug/L		94
60)	1,3-Dichloropropane	13.55	76	2330148	201.38	ug/L		92
61)	Dibromochloromethane	13.87	129	1789924	201.82	ug/L		99
62)	1,2-Dibromoethane	14.10	107	1490475	207.01	ug/L		98
63)	1-Chlorohexane	14.43	91	1980649	206.19	ug/L		93
64)	Chlorobenzene	14.69	112	3643366	199.46	ug/L		95
65)	1,1,1,2-Tetrachloroethane	14.76	131	1505471	189.18	ug/L		95
66)	Ethylbenzene	14.70	91	6513282	188.52	ug/L		99
67)	m,p-Xylene	14.85	91	9998480	375.93	ug/L		96
68)	o-Xylene	15.43	91	5281271	191.35	ug/L		97
69)	Styrene	15.46	104	4058969	209.48	ug/L		91
70)	Bromoform	15.85	173	1248450	197.18	ug/L		97
72)	Isopropylbenzene	15.86	105	5112837	206.82	ug/L		98
73)	Cyclohexanone	16.19	55	209175	954.19	ug/L		95
75)	Bromobenzene	16.47	156	1767695	198.85	ug/L		97
76)	1,1,2,2-Tetrachloroethane	16.34	83	1378777	203.56	ug/L		99
77)	Trans-1,4-Dichloro-2-Buten	16.41	53	502682	199.94	ug/L	#	96
78)	1,2,3-Trichloropropane	16.46	110	507411	195.37	ug/L		92
79)	n-Propylbenzene	16.40	91	6771023	198.62	ug/L		100
80)	2-Chlorotoluene	16.66	91	4850993	190.33	ug/L		98
81)	4-Chlorotoluene	16.79	91	4613606	194.34	ug/L		96
82)	1,3,5-Trimethylbenzene	16.61	105	4528891	201.13	ug/L		98
83)	sec-Butylbenzene	17.39	105	4898318	196.64	ug/L		100
84)	1,3-Dichlorobenzene	17.74	146	2726747	196.01	ug/L		98
85)	4-Isopropyltoluene	17.55	119	3982704	196.64	ug/L		100
86)	1,4-Dichlorobenzene	17.87	146	2812589	196.31	ug/L		99
87)	tert-Butylbenzene	17.39	91	832680	191.43	ug/L		91
88)	n-Butylbenzene	18.15	91	3703796	187.69	ug/L		98
89)	1,2-Dichlorobenzene	18.46	146	2500221	190.81	ug/L		96
90)	1,2,4-Trimethylbenzene	17.17	105	4794167	198.90	ug/L		99

(#) = qualifier out of range (m) = manual integration
F019688.D VF3547.M Tue Sep 15 09:55:57 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13:53 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:13:36 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

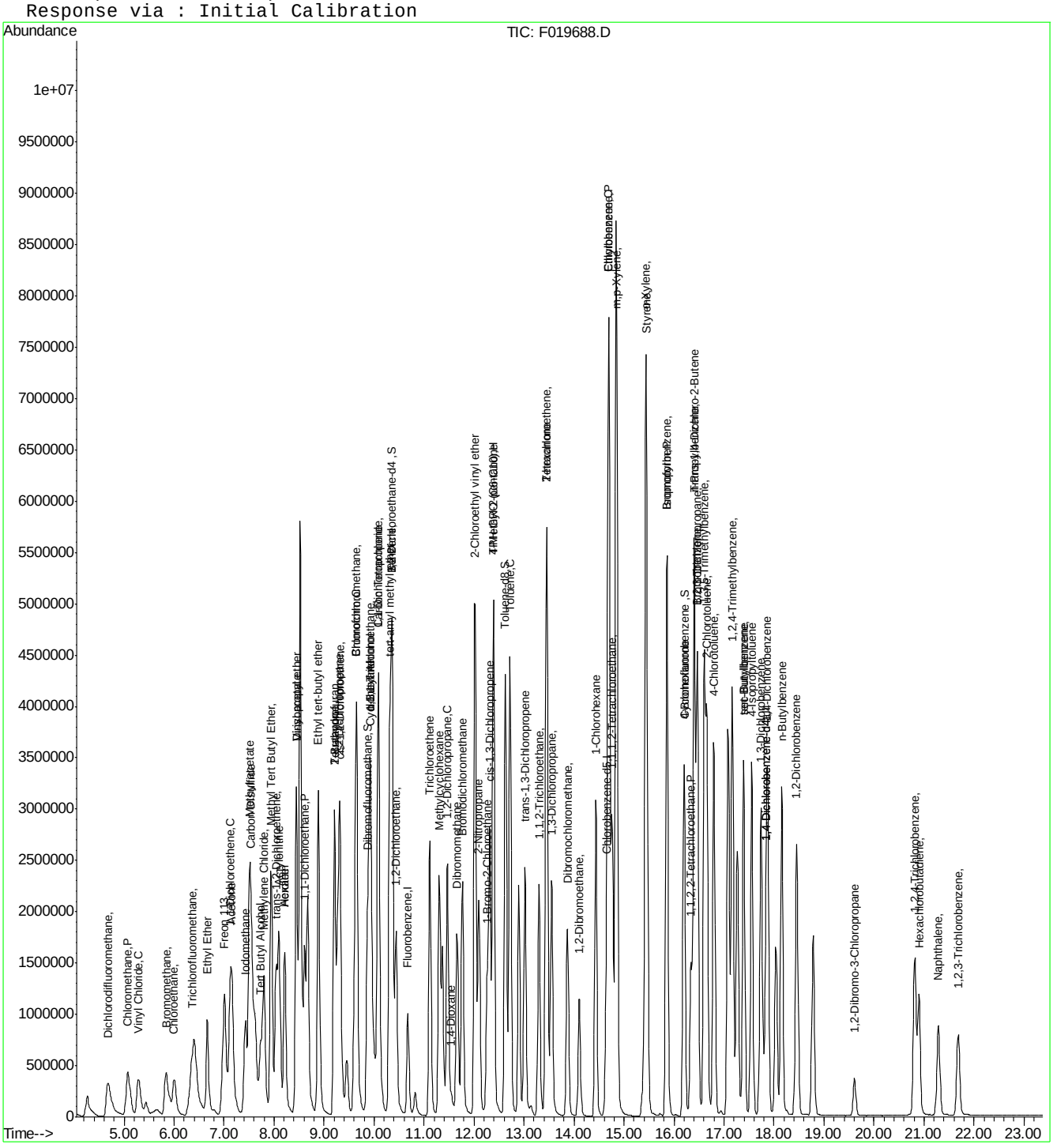
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	209616	153.18	ug/L	87
92)	1,2,4-Trichlorobenzene	20.82	180	1235269	176.39	ug/L	100
93)	Hexachlorobutadiene	20.90	225	536202	144.17	ug/L	97
94)	Naphthalene	21.28	128	1803651	172.78	ug/L	100
95)	1,2,3-Trichlorobenzene	21.68	180	669734	152.72	ug/L	98
97)	TPH-GRO (C6-C10)	12.39	TIC	547322666m	8238.03	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09:41 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:08:34 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	956208	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.63	117	697608	50.00	ug/L	-0.01
71) 1,4-Dichlorobenzene-d4	17.81	152	394454	50.00	ug/L	-0.01
96) 1,4-Dichlorobenzene-d4a	17.81	152	394454	50.00	ug/kg	-0.01

System Monitoring Compounds						
33) Dibromofluoromethane	9.85	113	6329	1.06	ug/L	-0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 2.12%#			
38) 1,2-Dichloroethane-d4	10.34	65	9407	1.12	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 2.24%#			
54) Toluene-d8	12.62	98	20214	1.27	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 2.54%#			
74) 4-Bromofluorobenzene	16.19	95	10654	1.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 2.92%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.70	85	5573	0.84	ug/L	92
3) Chloromethane	5.04	50	6800	1.03	ug/L	93
4) Vinyl Chloride	5.29	62	4453	0.83	ug/L #	44
5) Bromomethane	5.88	94	4656	1.29	ug/L	87
6) Chloroethane	6.02	64	3011	1.14	ug/L	73
7) Trichlorofluoromethane	6.36	101	9437	1.10	ug/L	81
8) Acrolein	8.21	56	2060	5.29	ug/L	59
9) Ethyl Ether	6.67	59	3720	1.06	ug/L	88
10) 1,1-Dichloroethene	7.10	61	6980	1.03	ug/L	95
11) Freon 113	6.97	101	3967	0.94	ug/L	88
12) Acetone	7.15	43	16378	12.10	ug/L	82
13) Iodomethane	7.41	142	7314	0.89	ug/L #	91
14) Methyl acetate	7.50	43	20795	7.54	ug/L	90
15) Carbon Disulfide	7.54	76	13743	1.04	ug/L	96
16) Methylene Chloride	7.78	49	9543	1.62	ug/L	84
17) Tert Butyl Alcohol	7.69	59	4649	11.24	ug/L	70
18) trans-1,2-Dichloroethene	8.04	61	6217	0.96	ug/L	86
19) Acrylonitrile	8.09	53	5791	5.52	ug/L	91
20) Methyl Tert Butyl Ether	7.92	73	15482	1.05	ug/L	93
21) Hexane	8.22	57	3470	1.10	ug/L	78
22) 1,1-Dichloroethane	8.60	63	7844	0.95	ug/L	97
23) Vinyl acetate	8.43	43	8397	5.80	ug/L	89
24) Di-isopropyl ether	8.43	45	17043	1.09	ug/L	93
25) Ethyl tert-butyl ether	8.87	59	15836	0.98	ug/L	94
26) 2,2-Dichloropropane	9.28	77	7239	1.07	ug/L	92
27) cis-1,2-Dichloroethene	9.31	96	5498	0.97	ug/L	96
28) 2-Butanone	9.20	43	21865	3.87	ug/L	100
29) Bromochloromethane	9.64	128	2400	0.82	ug/L	88
30) Chloroform	9.64	83	10452	0.93	ug/L	92
31) Tetrahydrofuran	9.20	42	3341	1.21	ug/L	75
32) 1,1,1-Trichloroethane	9.90	97	9311	0.97	ug/L	95
34) Cyclohexane	9.92	56	5124	0.99	ug/L	88
35) n-Butyl Alcohol	9.91	43	309	6.86	ug/L #	1
36) 1,1-Dichloropropene	10.07	75	6645	0.97	ug/L	96

(#) = qualifier out of range (m) = manual integration
F019682.D VF3547.M Tue Sep 15 09:55:39 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09:41 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:08:34 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	8163	0.99	ug/L		95
39)	Benzene	10.36	78	15506	0.99	ug/L		98
40)	1,2-Dichloroethane	10.42	62	9792	1.01	ug/L		94
41)	tert-amyl methyl ether	10.31	73	15768	1.09	ug/L		86
42)	Trichloroethene	11.10	95	10733	1.94	ug/L		98
43)	Methylcyclohexane	11.29	83	4948	1.03	ug/L		95
44)	1,2-Dichloropropane	11.46	63	3850	1.00	ug/L		87
45)	Dibromomethane	11.65	93	3620	0.92	ug/L		93
47)	Bromodichloromethane	11.75	83	9855	1.04	ug/L		97
48)	2-Nitropropane	12.08	41	10680	5.40	ug/L		91
49)	2-Chloroethyl vinyl ether	12.01	63	9868	4.70	ug/L		84
50)	1-Bromo-2-Chloroethane	12.25	63	5967	1.06	uL/L		94
51)	4-Methyl-2-pentanone	12.38	43	21101	5.74	ug/L		96
52)	cis-1,3-Dichloropropene	12.30	75	8656	0.99	ug/L		96
55)	Toluene	12.71	91	19583	1.07	ug/L		96
56)	trans-1,3-Dichloropropene	13.01	75	8212	0.98	ug/L		89
57)	1,1,2-Trichloroethane	13.29	83	3637	1.06	ug/L		93
58)	Tetrachloroethene	13.43	166	6155	1.09	ug/L		90
59)	2-hexanone	13.44	43	14675	5.48	ug/L		97
60)	1,3-Dichloropropane	13.54	76	8286	1.07	ug/L		88
61)	Dibromochloromethane	13.87	129	5946	0.94	ug/L		93
62)	1,2-Dibromoethane	14.09	107	4835	0.98	ug/L		83
63)	1-Chlorohexane	14.43	91	6754	1.04	ug/L		91
64)	Chlorobenzene	14.68	112	13385	1.08	ug/L		97
65)	1,1,1,2-Tetrachloroethane	14.75	131	5410	0.97	ug/L	#	70
66)	Ethylbenzene	14.68	91	25295	1.08	ug/L		92
67)	m,p-Xylene	14.83	91	37073	2.03	ug/L		98
68)	o-Xylene	15.41	91	19304	1.01	ug/L		99
69)	Styrene	15.44	104	12803	0.93	ug/L		96
70)	Bromoform	15.84	173	4214	0.92	ug/L		92
72)	Isopropylbenzene	15.85	105	17798	1.04	ug/L		94
73)	Cyclohexanone	16.16	55	544	3.78	ug/L	#	27
75)	Bromobenzene	16.46	156	6422	1.04	ug/L		91
76)	1,1,2,2-Tetrachloroethane	16.33	83	5303	1.13	ug/L		83
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	1873	0.98	ug/L	#	87
78)	1,2,3-Trichloropropane	16.46	110	2029	1.12	ug/L		75
79)	n-Propylbenzene	16.39	91	25454	1.08	ug/L		100
80)	2-Chlorotoluene	16.64	91	20035	1.15	ug/L		96
81)	4-Chlorotoluene	16.79	91	18670	1.14	ug/L		92
82)	1,3,5-Trimethylbenzene	16.59	105	16231	1.03	ug/L		96
83)	sec-Butylbenzene	17.38	105	19271	1.12	ug/L		99
84)	1,3-Dichlorobenzene	17.73	146	9900	1.00	ug/L		90
85)	4-Isopropyltoluene	17.54	119	15037	1.08	ug/L		99
86)	1,4-Dichlorobenzene	17.73	146	9900	0.95	ug/L		89
87)	tert-Butylbenzene	17.55	91	5185	1.66	ug/L	#	68
88)	n-Butylbenzene	18.15	91	16098	1.13	ug/L		94
89)	1,2-Dichlorobenzene	18.43	146	9891	1.02	ug/L		92
90)	1,2,4-Trimethylbenzene	17.15	105	17749	1.05	ug/L		89
91)	1,2-Dibromo-3-Chloropropan	19.59	75	1180	1.16	ug/L	#	52

(#) = qualifier out of range (m) = manual integration
F019682.D VF3547.M Tue Sep 15 09:55:39 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09:41 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:08:34 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

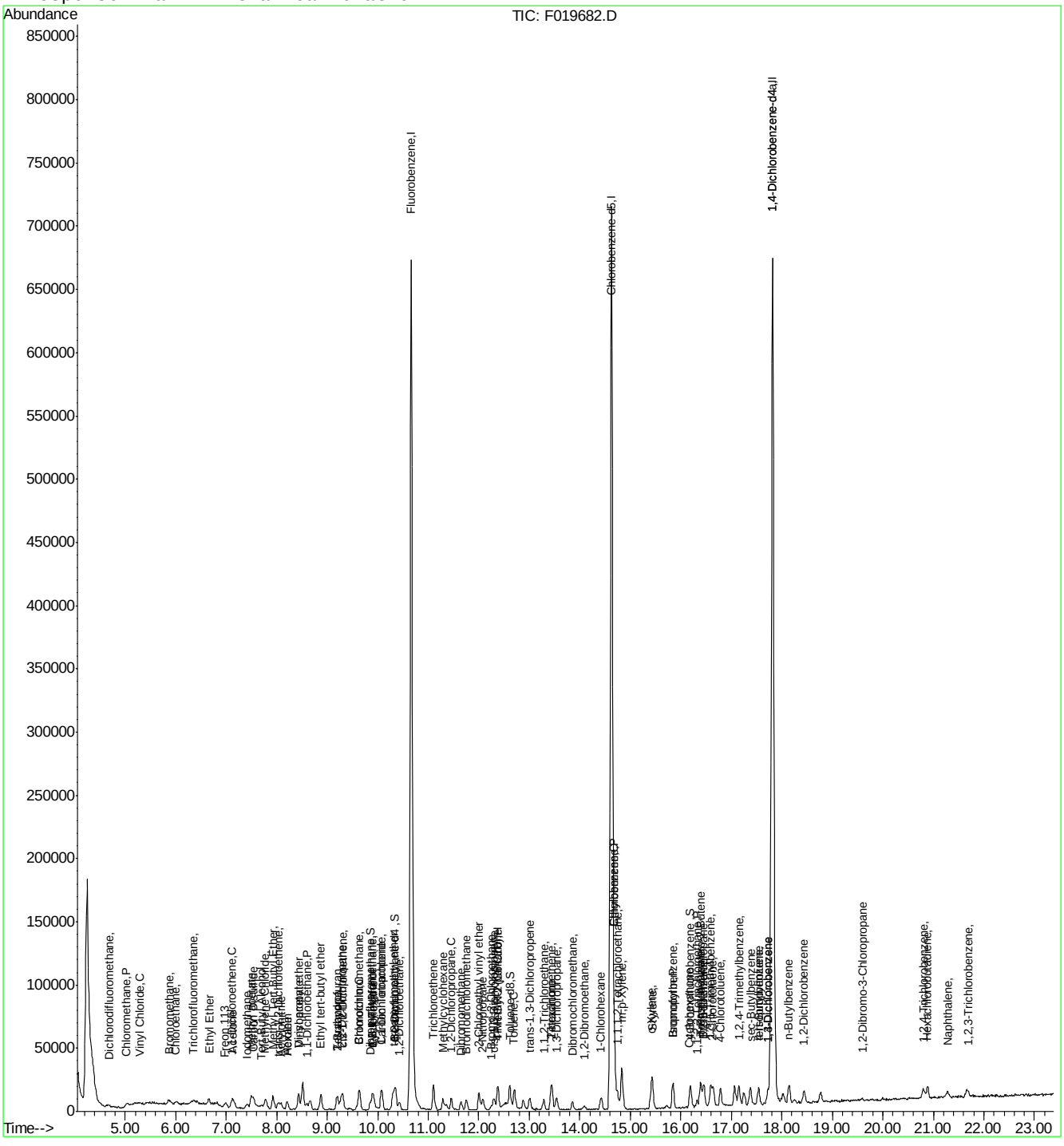
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,2,4-Trichlorobenzene	20.81	180	6329	1.10	ug/L	92
93)	Hexachlorobutadiene	20.88	225	4084	1.58	ug/L	94
94)	Naphthalene	21.28	128	10874	1.28	ug/L	98
95)	1,2,3-Trichlorobenzene	21.68	180	4991	1.57	ug/L	90
97)	TPH-GRO (C6-C10)	12.39	TIC	184556m	5.23	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019682.D VF3547.M Tue Sep 15 09:55:39 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019682.D Vial: 2
Acq On : 14 Sep 2009 12:31 pm Operator: AnjanaP
Sample : ic3547-1 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:09 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:05 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:10:47 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	947288	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	695473	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.82	152	390028	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.82	152	390028	50.00	ug/kg	0.00

System Monitoring Compounds						
33) Dibromofluoromethane	9.86	113	10997	1.80	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 3.60%#			
38) 1,2-Dichloroethane-d4	10.34	65	16182	1.84	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 3.68%#			
54) Toluene-d8	12.62	98	32778	1.82	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 3.64%#			
74) 4-Bromofluorobenzene	16.19	95	15304	1.72	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 3.44%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.68	85	10398	1.72	ug/L	96
3) Chloromethane	5.04	50	8884	1.34	ug/L	88
4) Vinyl Chloride	5.28	62	7538	1.59	ug/L	98
5) Bromomethane	5.87	94	8374	2.05	ug/L	86
6) Chloroethane	6.03	64	4985	1.77	ug/L	97
7) Trichlorofluoromethane	6.36	101	17233	1.93	ug/L	97
8) Acrolein	8.21	56	4442	11.19	ug/L	59
9) Ethyl Ether	6.66	59	7617	2.13	ug/L	93
10) 1,1-Dichloroethene	7.11	61	14802	2.17	ug/L	98
11) Freon 113	7.00	101	9430	2.31	ug/L	89
12) Acetone	7.16	43	22736	10.04	ug/L	98
13) Iodomethane	7.42	142	15389	2.00	ug/L	97
14) Methyl acetate	7.51	43	32239	9.41	ug/L	95
15) Carbon Disulfide	7.55	76	26918	2.02	ug/L	99
16) Methylene Chloride	7.79	49	14838	1.94	ug/L	91
17) Tert Butyl Alcohol	7.71	59	8508	19.55	ug/L	86
18) trans-1,2-Dichloroethene	8.03	61	12921	2.05	ug/L	91
19) Acrylonitrile	8.09	53	11329	10.36	ug/L	94
20) Methyl Tert Butyl Ether	7.93	73	30605	2.04	ug/L	97
21) Hexane	8.21	57	7369	2.25	ug/L	94
22) 1,1-Dichloroethane	8.61	63	16703	2.09	ug/L	92
23) Vinyl acetate	8.44	43	14233	9.19	ug/L	88
24) Di-isopropyl ether	8.44	45	30683	1.89	ug/L	98
25) Ethyl tert-butyl ether	8.88	59	30080	1.89	ug/L	92
26) 2,2-Dichloropropane	9.29	77	14488	2.09	ug/L	99
27) cis-1,2-Dichloroethene	9.31	96	11621	2.11	ug/L	94
28) 2-Butanone	9.20	43	58802	11.84	ug/L	100
29) Bromochloromethane	9.65	128	5581	2.11	ug/L	98
30) Chloroform	9.65	83	22923	2.13	ug/L	98
31) Tetrahydrofuran	9.21	42	4525	1.45	ug/L	78
32) 1,1,1-Trichloroethane	9.90	97	19652	2.10	ug/L	94
34) Cyclohexane	9.93	56	11839	2.32	ug/L	83
35) n-Butyl Alcohol	9.92	43	1980	47.24	ug/L #	28
36) 1,1-Dichloropropene	10.08	75	14123	2.11	ug/L	96

(#) = qualifier out of range (m) = manual integration
F019683.D VF3547.M Tue Sep 15 09:55:41 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:05 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:10:47 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	16977	2.09	ug/L		98
39)	Benzene	10.36	78	32415	2.10	ug/L		87
40)	1,2-Dichloroethane	10.43	62	18959	1.96	ug/L		95
41)	tert-amyl methyl ether	10.31	73	29652	1.98	ug/L		96
42)	Trichloroethene	11.11	95	15738	1.95	ug/L		97
43)	Methylcyclohexane	11.30	83	10094	2.09	ug/L		96
44)	1,2-Dichloropropane	11.46	63	7906	2.07	ug/L		93
45)	Dibromomethane	11.65	93	7546	2.01	ug/L		82
46)	1,4-Dioxane	11.56	88	1216	29.28	ug/L	#	63
47)	Bromodichloromethane	11.76	83	18337	1.91	ug/L		96
48)	2-Nitropropane	12.09	41	21935	10.76	ug/L		98
49)	2-Chloroethyl vinyl ether	12.01	63	18258	9.05	ug/L		88
50)	1-Bromo-2-Chloroethane	12.25	63	11589	2.02	uL/L		100
51)	4-Methyl-2-pentanone	12.38	43	39511	10.10	ug/L		97
52)	cis-1,3-Dichloropropene	12.30	75	16922	1.96	ug/L		89
55)	Toluene	12.71	91	39063	2.07	ug/L		96
56)	trans-1,3-Dichloropropene	13.01	75	16632	2.01	ug/L		96
57)	1,1,2-Trichloroethane	13.29	83	7295	2.07	ug/L		94
58)	Tetrachloroethene	13.43	166	12622	2.15	ug/L		96
59)	2-hexanone	13.45	43	28082	10.03	ug/L		98
60)	1,3-Dichloropropane	13.54	76	16463	2.06	ug/L		91
61)	Dibromochloromethane	13.86	129	12213	1.99	ug/L		96
62)	1,2-Dibromoethane	14.09	107	10279	2.11	ug/L		93
63)	1-Chlorohexane	14.43	91	13749	2.08	ug/L		93
64)	Chlorobenzene	14.67	112	25180	1.96	ug/L		89
65)	1,1,1,2-Tetrachloroethane	14.75	131	11592	2.11	ug/L		85
66)	Ethylbenzene	14.68	91	50842	2.10	ug/L		98
67)	m,p-Xylene	14.83	91	77707	4.23	ug/L		93
68)	o-Xylene	15.42	91	40204	2.10	ug/L		94
69)	Styrene	15.45	104	26449	2.00	ug/L		95
70)	Bromoform	15.85	173	9275	2.11	ug/L		87
72)	Isopropylbenzene	15.85	105	37212	2.16	ug/L		96
73)	Cyclohexanone	16.20	55	1896	14.49	ug/L	#	71
75)	Bromobenzene	16.47	156	13766	2.21	ug/L		98
76)	1,1,2,2-Tetrachloroethane	16.33	83	10422	2.11	ug/L		93
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	3664	1.96	ug/L	#	93
78)	1,2,3-Trichloropropane	16.47	110	3958	2.09	ug/L		79
79)	n-Propylbenzene	16.40	91	51663	2.13	ug/L		98
80)	2-Chlorotoluene	16.64	91	38927	2.10	ug/L		97
81)	4-Chlorotoluene	16.79	91	36634	2.11	ug/L		99
82)	1,3,5-Trimethylbenzene	16.59	105	34365	2.17	ug/L		96
83)	sec-Butylbenzene	17.38	105	37811	2.10	ug/L		97
84)	1,3-Dichlorobenzene	17.73	146	21717	2.22	ug/L		94
85)	4-Isopropyltoluene	17.55	119	30960	2.16	ug/L		99
86)	1,4-Dichlorobenzene	17.73	146	21717	2.16	ug/L		95
87)	tert-Butylbenzene	17.39	91	8158	2.00	ug/L		91
88)	n-Butylbenzene	18.15	91	29139	1.94	ug/L		98
89)	1,2-Dichlorobenzene	18.44	146	19585	2.02	ug/L		95
90)	1,2,4-Trimethylbenzene	17.15	105	35759	2.08	ug/L		93

(#) = qualifier out of range (m) = manual integration
F019683.D VF3547.M Tue Sep 15 09:55:41 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:05 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:10:47 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

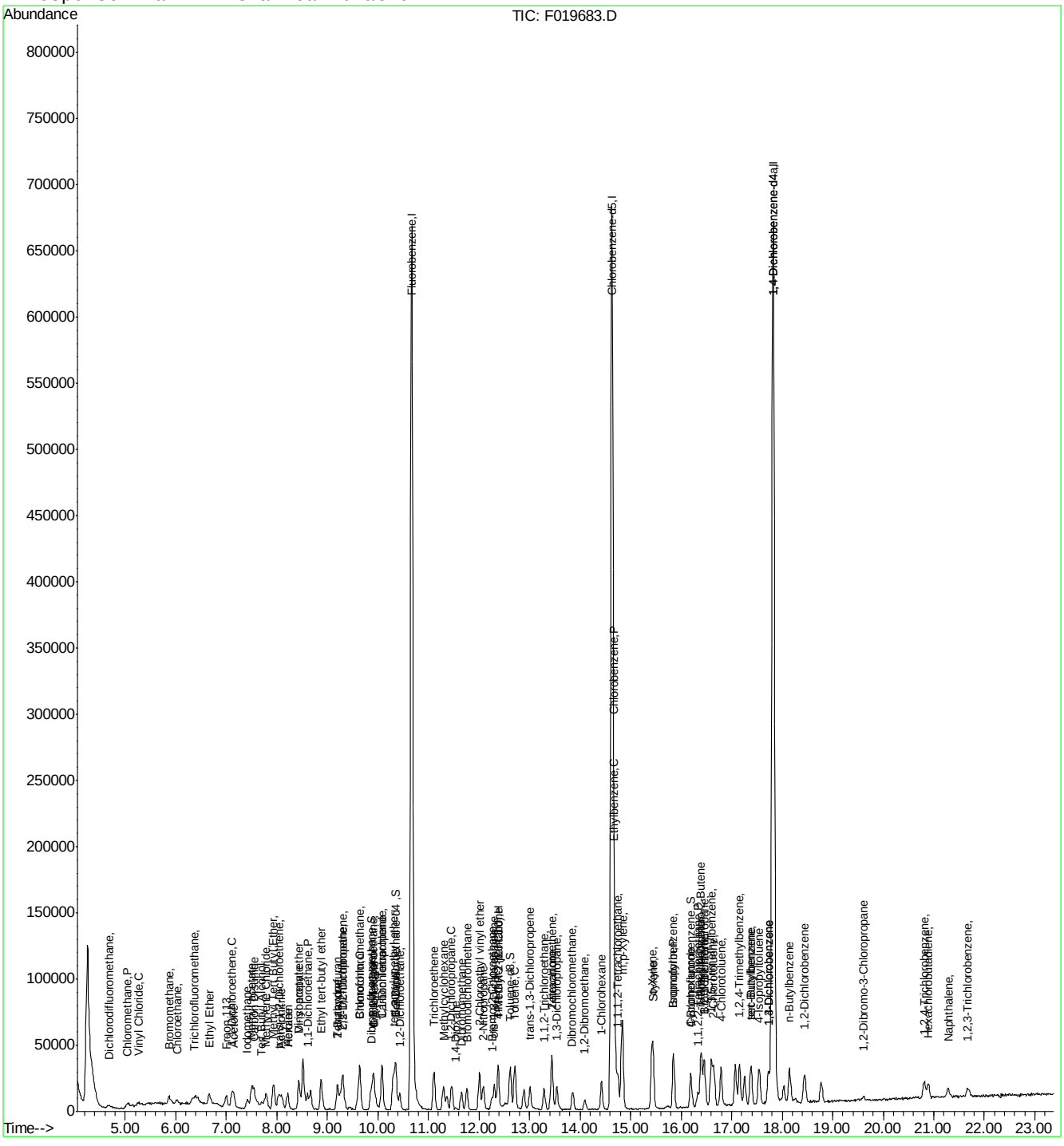
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	2425	2.24	ug/L	87
92)	1,2,4-Trichlorobenzene	20.81	180	9654	1.62	ug/L	97
93)	Hexachlorobutadiene	20.89	225	5689	1.73	ug/L	89
94)	Naphthalene	21.28	128	13984	1.46	ug/L	80
95)	1,2,3-Trichlorobenzene	21.67	180	6548	1.62	ug/L	96
97)	TPH-GRO (C6-C10)	12.39	TIC	2699442m	77.34	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019683.D Vial: 3
Acq On : 14 Sep 2009 1:01 pm Operator: AnjanaP
Sample : ic3547-2 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:34 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:23 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.68	96	1008594	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	729549	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.82	152	410756	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.82	152	410756	50.00	ug/kg	0.00

System Monitoring Compounds						
33) Dibromofluoromethane	9.86	113	31064	4.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 9.90%#			
38) 1,2-Dichloroethane-d4	10.35	65	45217	4.95	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 9.90%#			
54) Toluene-d8	12.63	98	89755	4.90	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 9.80%#			
74) 4-Bromofluorobenzene	16.20	95	39760	4.46	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 8.92%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.68	85	29821	4.85	ug/L	86
3) Chloromethane	5.05	50	23140	3.67	ug/L	96
4) Vinyl Chloride	5.28	62	21305	4.12	ug/L	88
5) Bromomethane	5.89	94	19688	4.48	ug/L	93
6) Chloroethane	6.04	64	13315	4.77	ug/L	95
7) Trichlorofluoromethane	6.36	101	44400	4.84	ug/L	97
8) Acrolein	8.22	56	11785	26.82	ug/L	82
9) Ethyl Ether	6.68	59	18019	4.63	ug/L	92
10) 1,1-Dichloroethene	7.12	61	36101	4.84	ug/L	98
11) Freon 113	7.01	101	25771	5.71	ug/L	95
12) Acetone	7.17	43	41431	22.55	ug/L	96
13) Iodomethane	7.43	142	40184	4.91	ug/L	99
14) Methyl acetate	7.51	43	73699	20.61	ug/L	98
15) Carbon Disulfide	7.55	76	72047	5.06	ug/L	92
16) Methylene Chloride	7.81	49	32591	4.05	ug/L	91
17) Tert Butyl Alcohol	7.71	59	20325	44.20	ug/L	94
18) trans-1,2-Dichloroethene	8.05	61	34084	5.04	ug/L	95
19) Acrylonitrile	8.11	53	28805	24.45	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	75043	4.67	ug/L	95
21) Hexane	8.23	57	19916	5.48	ug/L	88
22) 1,1-Dichloroethane	8.61	63	44913	5.20	ug/L	100
23) Vinyl acetate	8.45	43	37606	23.44	ug/L	90
24) Di-isopropyl ether	8.45	45	82350	4.86	ug/L	100
25) Ethyl tert-butyl ether	8.89	59	81971	4.93	ug/L	97
26) 2,2-Dichloropropane	9.30	77	39547	5.28	ug/L	94
27) cis-1,2-Dichloroethene	9.32	96	29452	4.93	ug/L	94
28) 2-Butanone	9.20	43	149763	26.69	ug/L	100
29) Bromochloromethane	9.64	128	14392	5.02	ug/L	92
30) Chloroform	9.66	83	57840	4.94	ug/L	98
31) Tetrahydrofuran	9.20	42	8848	3.10	ug/L	87
32) 1,1,1-Trichloroethane	9.91	97	50661	5.00	ug/L	95
34) Cyclohexane	9.93	56	29168	5.09	ug/L	94
35) n-Butyl Alcohol	9.92	43	3818	71.44	ug/L #	18
36) 1,1-Dichloropropene	10.09	75	37240	5.13	ug/L	99

(#) = qualifier out of range (m) = manual integration
F019684.D VF3547.M Tue Sep 15 09:55:44 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:34 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:23 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.09	117	44794	5.11	ug/L		96
39)	Benzene	10.37	78	86060	5.14	ug/L		97
40)	1,2-Dichloroethane	10.43	62	52070	5.10	ug/L		96
41)	tert-amyl methyl ether	10.31	73	76052	4.78	ug/L		95
42)	Trichloroethene	11.12	95	33956	3.99	ug/L		97
43)	Methylcyclohexane	11.31	83	29121	5.57	ug/L		98
44)	1,2-Dichloropropane	11.48	63	20582	5.00	ug/L		92
45)	Dibromomethane	11.65	93	21073	5.27	ug/L		94
46)	1,4-Dioxane	11.54	88	3921	98.57	ug/L		88
47)	Bromodichloromethane	11.77	83	50417	5.02	ug/L		89
48)	2-Nitropropane	12.10	41	52088	23.41	ug/L		91
49)	2-Chloroethyl vinyl ether	12.02	63	47068	22.63	ug/L		99
50)	1-Bromo-2-Chloroethane	12.25	63	29153	4.76	uL/L		98
51)	4-Methyl-2-pentanone	12.38	43	97447	23.32	ug/L		98
52)	cis-1,3-Dichloropropene	12.30	75	44008	4.82	ug/L		97
55)	Toluene	12.72	91	100714	5.03	ug/L		98
56)	trans-1,3-Dichloropropene	13.02	75	42958	4.94	ug/L		97
57)	1,1,2-Trichloroethane	13.30	83	18471	4.93	ug/L		96
58)	Tetrachloroethene	13.44	166	32598	5.16	ug/L		98
59)	2-hexanone	13.46	43	67208	22.86	ug/L		99
60)	1,3-Dichloropropane	13.54	76	41077	4.86	ug/L		91
61)	Dibromochloromethane	13.87	129	32217	5.02	ug/L		91
62)	1,2-Dibromoethane	14.10	107	25682	4.93	ug/L		89
63)	1-Chlorohexane	14.43	91	33997	4.84	ug/L		93
64)	Chlorobenzene	14.69	112	65799	4.91	ug/L		96
65)	1,1,1,2-Tetrachloroethane	14.76	131	29707	5.07	ug/L		95
66)	Ethylbenzene	14.69	91	125709	4.86	ug/L		97
67)	m,p-Xylene	14.84	91	195713	9.97	ug/L		99
68)	o-Xylene	15.42	91	100092	4.90	ug/L		98
69)	Styrene	15.45	104	69831	5.03	ug/L		96
70)	Bromoform	15.86	173	21839	4.65	ug/L		97
72)	Isopropylbenzene	15.86	105	95203	5.11	ug/L		100
73)	Cyclohexanone	16.19	55	4002	25.78	ug/L	#	77
75)	Bromobenzene	16.47	156	33679	4.96	ug/L		94
76)	1,1,2,2-Tetrachloroethane	16.34	83	24048	4.54	ug/L		93
77)	Trans-1,4-Dichloro-2-Buten	16.41	53	8874	4.54	ug/L	#	90
78)	1,2,3-Trichloropropane	16.46	110	9378	4.63	ug/L		95
79)	n-Propylbenzene	16.40	91	129915	4.98	ug/L		98
80)	2-Chlorotoluene	16.65	91	98471	4.97	ug/L		97
81)	4-Chlorotoluene	16.79	91	87814	4.72	ug/L		99
82)	1,3,5-Trimethylbenzene	16.59	105	86438	5.04	ug/L		95
83)	sec-Butylbenzene	17.39	105	93386	4.84	ug/L		98
84)	1,3-Dichlorobenzene	17.74	146	53052	4.97	ug/L		98
85)	4-Isopropyltoluene	17.55	119	76756	4.95	ug/L		95
86)	1,4-Dichlorobenzene	17.86	146	55913	5.15	ug/L		84
87)	tert-Butylbenzene	17.39	91	18988	5.26	ug/L		93
88)	n-Butylbenzene	18.15	91	72211	4.62	ug/L		99
89)	1,2-Dichlorobenzene	18.45	146	48843	4.76	ug/L		94
90)	1,2,4-Trimethylbenzene	17.16	105	93031	5.08	ug/L		93

(#) = qualifier out of range (m) = manual integration
F019684.D VF3547.M Tue Sep 15 09:55:44 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11:34 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:23 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

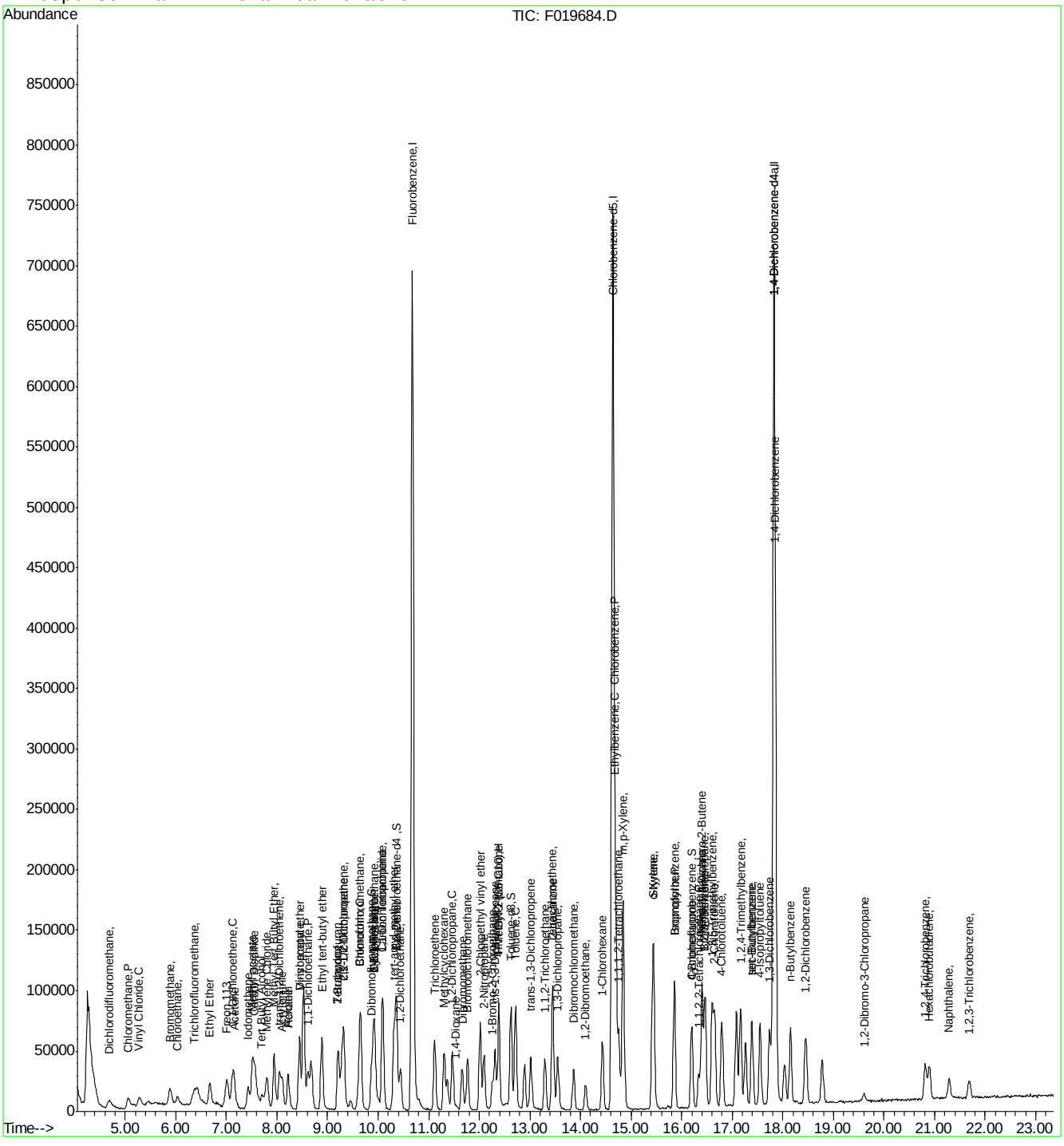
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	4739	3.99	ug/L	83
92)	1,2,4-Trichlorobenzene	20.82	180	22735	3.87	ug/L	98
93)	Hexachlorobutadiene	20.90	225	12032	3.63	ug/L	93
94)	Naphthalene	21.29	128	30446	3.32	ug/L	93
95)	1,2,3-Trichlorobenzene	21.69	180	13294	3.33	ug/L	93
97)	TPH-GRO (C6-C10)	12.39	TIC	9738984m	375.64	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019684.D VF3547.M Tue Sep 15 09:55:44 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019684.D Vial: 4
Acq On : 14 Sep 2009 1:31 pm Operator: AnjanaP
Sample : ic3547-5 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:11 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:06 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:50 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	982414	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	707294	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.82	152	401382	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.82	152	401382	50.00	ug/kg	0.00

System Monitoring Compounds

33) Dibromofluoromethane	9.86	113	106812	17.51	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 35.02%#			
38) 1,2-Dichloroethane-d4	10.35	65	148375	16.72	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 33.44%#			
54) Toluene-d8	12.63	98	289415	16.38	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 32.76%#			
74) 4-Bromofluorobenzene	16.20	95	130166	15.35	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 30.70%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.68	85	100390	16.89	ug/L	96
3) Chloromethane	5.06	50	71796	12.53	ug/L	94
4) Vinyl Chloride	5.28	62	66013	12.48	ug/L	95
5) Bromomethane	5.88	94	63479	15.23	ug/L	93
6) Chloroethane	6.03	64	46084	17.07	ug/L	96
7) Trichlorofluoromethane	6.36	101	157594	17.84	ug/L	96
8) Acrolein	8.22	56	38236	87.74	ug/L	88
9) Ethyl Ether	6.67	59	63043	16.94	ug/L	99
10) 1,1-Dichloroethene	7.12	61	123920	17.18	ug/L	98
11) Freon 113	7.01	101	85797	19.61	ug/L	95
12) Acetone	7.16	43	122068	84.09	ug/L	96
13) Iodomethane	7.43	142	145509	18.34	ug/L	100
14) Methyl acetate	7.51	43	244928	73.55	ug/L	97
15) Carbon Disulfide	7.55	76	245809	17.66	ug/L	96
16) Methylene Chloride	7.80	49	107994	14.45	ug/L	97
17) Tert Butyl Alcohol	7.71	59	72450	166.59	ug/L	97
18) trans-1,2-Dichloroethene	8.04	61	120197	18.20	ug/L	97
19) Acrylonitrile	8.10	53	102041	89.42	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	263723	17.14	ug/L	96
21) Hexane	8.22	57	64717	17.85	ug/L	97
22) 1,1-Dichloroethane	8.61	63	146591	17.25	ug/L	99
23) Vinyl acetate	8.45	43	121689	79.10	ug/L	99
24) Di-isopropyl ether	8.45	45	279196	17.04	ug/L	98
25) Ethyl tert-butyl ether	8.89	59	287162	17.81	ug/L	99
26) 2,2-Dichloropropane	9.30	77	129113	17.46	ug/L	98
27) cis-1,2-Dichloroethene	9.32	96	104986	18.10	ug/L	94
28) 2-Butanone	9.20	43	502313	90.37	ug/L	100
29) Bromochloromethane	9.64	128	53369	19.08	ug/L	96
30) Chloroform	9.65	83	202549	17.81	ug/L	99
31) Tetrahydrofuran	9.20	42	49178	17.74	ug/L	95
32) 1,1,1-Trichloroethane	9.91	97	177308	17.97	ug/L	98
34) Cyclohexane	9.92	56	102404	18.27	ug/L	96
35) n-Butyl Alcohol	9.93	43	7905	159.60	ug/L	95
36) 1,1-Dichloropropene	10.08	75	131509	18.47	ug/L	94

(#) = qualifier out of range (m) = manual integration
F019685.D VF3547.M Tue Sep 15 09:55:47 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:06 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:50 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Carbon Tetrachloride	10.09	117	153956	17.92	ug/L		98
39) Benzene	10.36	78	296632	18.07	ug/L		93
40) 1,2-Dichloroethane	10.43	62	174702	17.47	ug/L		100
41) tert-amyl methyl ether	10.31	73	264248	17.24	ug/L		100
42) Trichloroethene	11.11	95	103308	13.13	ug/L		96
43) Methylcyclohexane	11.31	83	95146	18.17	ug/L		99
44) 1,2-Dichloropropane	11.47	63	70640	17.62	ug/L		97
45) Dibromomethane	11.65	93	70784	17.93	ug/L		97
46) 1,4-Dioxane	11.55	88	14565	345.03	ug/L		95
47) Bromodichloromethane	11.76	83	168761	17.22	ug/L		98
48) 2-Nitropropane	12.09	41	187274	87.81	ug/L		98
49) 2-Chloroethyl vinyl ether	12.01	63	178146	90.07	ug/L		98
50) 1-Bromo-2-Chloroethane	12.25	63	101118	17.15	uL/L		97
51) 4-Methyl-2-pentanone	12.38	43	328138	81.99	ug/L		97
52) cis-1,3-Dichloropropene	12.31	75	155974	17.69	ug/L		97
55) Toluene	12.72	91	337327	17.36	ug/L		99
56) trans-1,3-Dichloropropene	13.01	75	148986	17.73	ug/L		99
57) 1,1,2-Trichloroethane	13.30	83	62592	17.30	ug/L		97
58) Tetrachloroethene	13.44	166	109099	17.68	ug/L		97
59) 2-hexanone	13.45	43	236631	84.85	ug/L		98
60) 1,3-Dichloropropane	13.54	76	143044	17.57	ug/L		96
61) Dibromochloromethane	13.87	129	111979	17.97	ug/L		100
62) 1,2-Dibromoethane	14.10	107	90639	18.02	ug/L		97
63) 1-Chlorohexane	14.43	91	115505	17.09	ug/L		92
64) Chlorobenzene	14.68	112	224020	17.33	ug/L		98
65) 1,1,1,2-Tetrachloroethane	14.75	131	97467	17.10	ug/L		98
66) Ethylbenzene	14.69	91	411556	16.54	ug/L		99
67) m,p-Xylene	14.84	91	650473	34.21	ug/L		99
68) o-Xylene	15.42	91	334597	16.97	ug/L		97
69) Styrene	15.45	104	240347	17.83	ug/L		95
70) Bromoform	15.85	173	79979	17.89	ug/L		96
72) Isopropylbenzene	15.86	105	319385	17.45	ug/L		99
73) Cyclohexanone	16.19	55	12353	83.58	ug/L		93
75) Bromobenzene	16.47	156	116972	17.67	ug/L		97
76) 1,1,2,2-Tetrachloroethane	16.33	83	84699	16.74	ug/L		99
77) Trans-1,4-Dichloro-2-Buten	16.41	53	33357	17.87	ug/L	#	98
78) 1,2,3-Trichloropropane	16.47	110	33963	17.47	ug/L		89
79) n-Propylbenzene	16.40	91	435765	17.11	ug/L		97
80) 2-Chlorotoluene	16.65	91	320598	16.57	ug/L		99
81) 4-Chlorotoluene	16.79	91	299961	16.74	ug/L		94
82) 1,3,5-Trimethylbenzene	16.59	105	292120	17.40	ug/L		95
83) sec-Butylbenzene	17.39	105	314828	16.84	ug/L		99
84) 1,3-Dichlorobenzene	17.74	146	179536	17.25	ug/L		99
85) 4-Isopropyltoluene	17.55	119	263530	17.43	ug/L		99
86) 1,4-Dichlorobenzene	17.86	146	189030	17.68	ug/L		97
87) tert-Butylbenzene	17.39	91	58310	17.97	ug/L		99
88) n-Butylbenzene	18.15	91	246188	16.42	ug/L		99
89) 1,2-Dichlorobenzene	18.44	146	166804	16.85	ug/L		97
90) 1,2,4-Trimethylbenzene	17.16	105	311686	17.34	ug/L		98

(#) = qualifier out of range (m) = manual integration
F019685.D VF3547.M Tue Sep 15 09:55:47 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:06 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:11:50 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

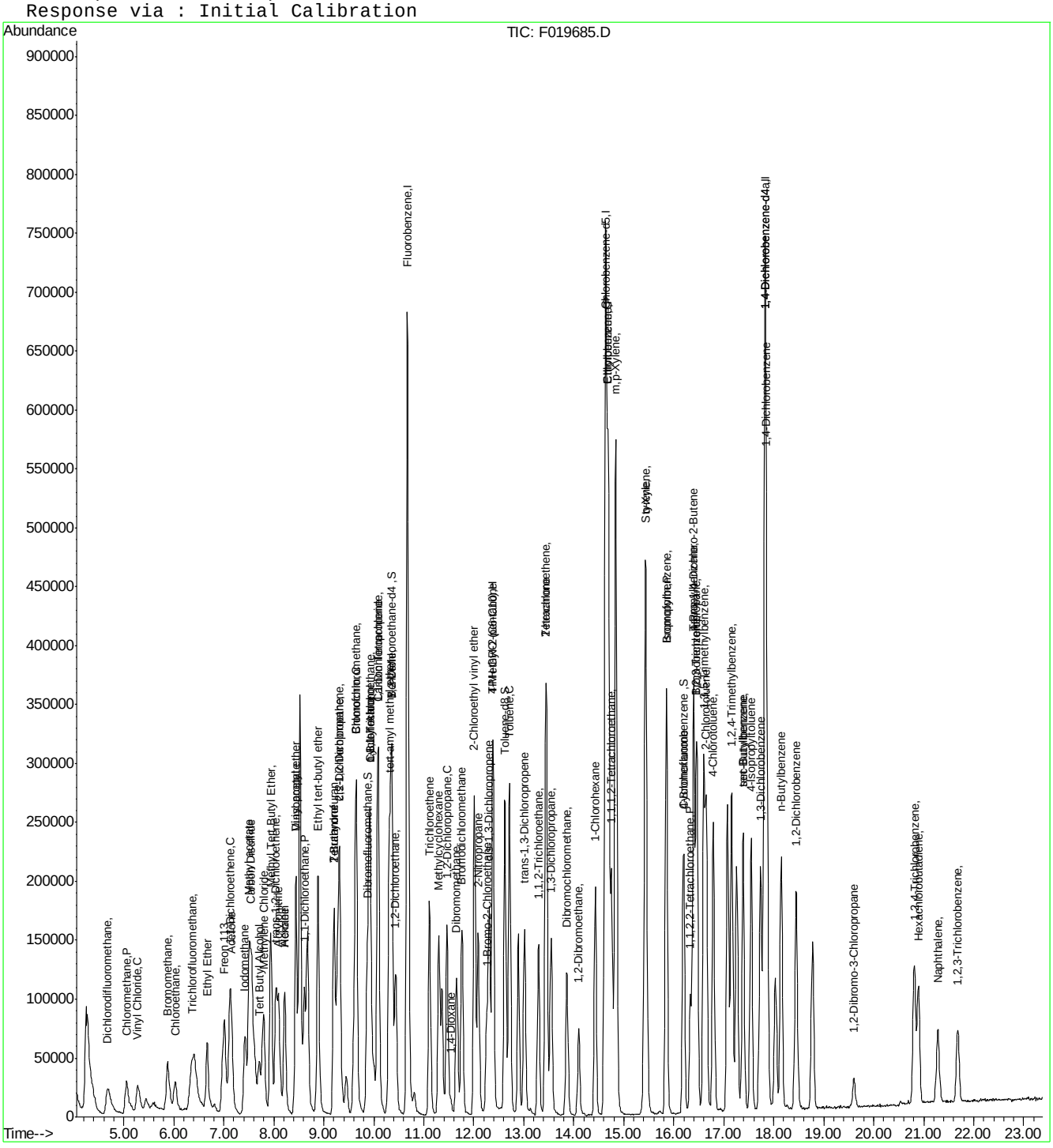
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.60	75	15869	14.40	ug/L	96
92) 1,2,4-Trichlorobenzene	20.81	180	86947	16.04	ug/L	98
93) Hexachlorobutadiene	20.89	225	42424	14.07	ug/L	93
94) Naphthalene	21.28	128	121677	14.82	ug/L	99
95) 1,2,3-Trichlorobenzene	21.68	180	48275	13.52	ug/L	98
97) TPH-GRO (C6-C10)	12.39	TIC	34546709m	1035.15	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019685.D VF3547.M Tue Sep 15 09:55:48 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019685.D Vial: 5
Acq On : 14 Sep 2009 2:01 pm Operator: AnjanaP
Sample : ic3547-20 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 09:01:13 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	954577	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	701182	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	427426	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	427426	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.87	113	238951	42.22	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 84.44%			
38) 1,2-Dichloroethane-d4	10.34	65	335120	42.13	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 84.26%			
54) Toluene-d8	12.62	98	639112	38.02	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 76.04%#			
74) 4-Bromofluorobenzene	16.19	95	316247	39.25	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 78.50%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.67	85	266054	49.63	ug/L	100
3) Chloromethane	5.06	50	264669	55.33	ug/L	100
4) Vinyl Chloride	5.29	62	214010	53.60	ug/L	100
5) Bromomethane	5.87	94	144081	47.44	ug/L	100
6) Chloroethane	6.02	64	105128	41.24	ug/L	100
7) Trichlorofluoromethane	6.37	101	343377	41.45	ug/L	100
8) Acrolein	8.21	56	77736	187.87	ug/L	100
9) Ethyl Ether	6.67	59	140119	40.75	ug/L	100
10) 1,1-Dichloroethene	7.12	61	270698	40.47	ug/L	100
11) Freon 113	7.01	101	168400	39.16	ug/L	100
12) Acetone	7.15	43	270151	217.67	ug/L	100
13) Iodomethane	7.43	142	326886	44.08	ug/L	100
14) Methyl acetate	7.51	43	550559	200.22	ug/L	100
15) Carbon Disulfide	7.55	76	527377	40.02	ug/L	100
16) Methylene Chloride	7.79	49	234689	41.84	ug/L	100
17) Tert Butyl Alcohol	7.70	59	165114	414.56	ug/L	100
18) trans-1,2-Dichloroethene	8.05	61	259932	41.69	ug/L	100
19) Acrylonitrile	8.11	53	209357	187.55	ug/L	100
20) Methyl Tert Butyl Ether	7.94	73	589203	41.71	ug/L	100
21) Hexane	8.21	57	125799	36.52	ug/L	100
22) 1,1-Dichloroethane	8.61	63	331206	42.05	ug/L	100
23) Vinyl acetate	8.44	43	288967	207.54	ug/L	100
24) Di-isopropyl ether	8.44	45	625383	40.58	ug/L	100
25) Ethyl tert-butyl ether	8.88	59	647936	42.79	ug/L	100
26) 2,2-Dichloropropane	9.30	77	269268	41.41	ug/L	100
27) cis-1,2-Dichloroethene	9.32	96	225201	41.55	ug/L	100
28) 2-Butanone	9.21	43	1126152	211.05	ug/L	100
29) Bromochloromethane	9.64	128	117515	43.80	ug/L	100
30) Chloroform	9.65	83	450607	43.16	ug/L	100
31) Tetrahydrofuran	9.21	42	110558	47.27	ug/L	100
32) 1,1,1-Trichloroethane	9.91	97	382857	42.54	ug/L	100
34) Cyclohexane	9.93	56	207457	38.31	ug/L	100
35) n-Butyl Alcohol	9.93	43	17974	362.44	ug/L	100
36) 1,1-Dichloropropene	10.08	75	274753	40.98	ug/L	100

(#) = qualifier out of range (m) = manual integration
F019686.D VF3547.M Tue Sep 15 09:55:50 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 09:01:13 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	328366	41.87	ug/L		100
39)	Benzene	10.36	78	627345	40.05	ug/L		100
40)	1,2-Dichloroethane	10.44	62	387366	42.62	ug/L		100
41)	tert-amyl methyl ether	10.31	73	579503	40.63	ug/L		100
42)	Trichloroethene	11.12	95	220655	41.78	ug/L		100
43)	Methylcyclohexane	11.30	83	192623	38.17	ug/L		100
44)	1,2-Dichloropropane	11.46	63	154466	40.07	ug/L		100
45)	Dibromomethane	11.66	93	157548	42.45	ug/L		100
46)	1,4-Dioxane	11.54	88	33481	865.16	ug/L		100
47)	Bromodichloromethane	11.77	83	378507	42.01	ug/L		100
48)	2-Nitropropane	12.09	41	394910	207.67	ug/L		100
49)	2-Chloroethyl vinyl ether	12.01	63	418987	211.18	ug/L		100
50)	1-Bromo-2-Chloroethane	12.26	63	224066	39.80	uL/L		100
51)	4-Methyl-2-pentanone	12.39	43	734477	197.20	ug/L		100
52)	cis-1,3-Dichloropropene	12.31	75	350871	41.68	ug/L		100
55)	Toluene	12.71	91	733307	38.99	ug/L		100
56)	trans-1,3-Dichloropropene	13.02	75	337363	41.35	ug/L		100
57)	1,1,2-Trichloroethane	13.29	83	138375	39.30	ug/L		100
58)	Tetrachloroethene	13.44	166	226077	38.24	ug/L		100
59)	2-hexanone	13.45	43	538811	199.75	ug/L		100
60)	1,3-Dichloropropane	13.55	76	310231	39.19	ug/L		100
61)	Dibromochloromethane	13.86	129	255260	42.06	ug/L		100
62)	1,2-Dibromoethane	14.10	107	198888	40.22	ug/L		100
63)	1-Chlorohexane	14.43	91	261886	39.72	ug/L		100
64)	Chlorobenzene	14.68	112	499033	39.99	ug/L		100
65)	1,1,1,2-Tetrachloroethane	14.76	131	224581	41.62	ug/L		100
66)	Ethylbenzene	14.70	91	939005	40.10	ug/L		100
67)	m,p-Xylene	14.84	91	1470428	81.60	ug/L		100
68)	o-Xylene	15.43	91	770587	41.11	ug/L		100
69)	Styrene	15.45	104	552734	41.46	ug/L		100
70)	Bromoform	15.85	173	184700	42.77	ug/L		100
72)	Isopropylbenzene	15.85	105	739251	38.20	ug/L		100
73)	Cyclohexanone	16.18	55	31173	191.85	ug/L		100
75)	Bromobenzene	16.46	156	267664	38.69	ug/L		100
76)	1,1,2,2-Tetrachloroethane	16.33	83	203689	38.51	ug/L		100
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	82619	42.19	ug/L	#	100
78)	1,2,3-Trichloropropane	16.46	110	78380	38.87	ug/L		100
79)	n-Propylbenzene	16.40	91	1023147	38.57	ug/L		100
80)	2-Chlorotoluene	16.65	91	754964	38.29	ug/L		100
81)	4-Chlorotoluene	16.79	91	710555	38.58	ug/L		100
82)	1,3,5-Trimethylbenzene	16.60	105	683562	38.94	ug/L		100
83)	sec-Butylbenzene	17.39	105	743028	38.38	ug/L		100
84)	1,3-Dichlorobenzene	17.74	146	426987	39.52	ug/L		100
85)	4-Isopropyltoluene	17.55	119	606270	38.52	ug/L		100
86)	1,4-Dichlorobenzene	17.87	146	450731	40.49	ug/L		100
87)	tert-Butylbenzene	17.39	91	135012	40.48	ug/L		100
88)	n-Butylbenzene	18.15	91	617060	40.50	ug/L		100
89)	1,2-Dichlorobenzene	18.45	146	422157	41.63	ug/L		100
90)	1,2,4-Trimethylbenzene	17.16	105	735859	39.22	ug/L		100

(#) = qualifier out of range (m) = manual integration
F019686.D VF3547.M Tue Sep 15 09:55:50 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 09:01:13 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

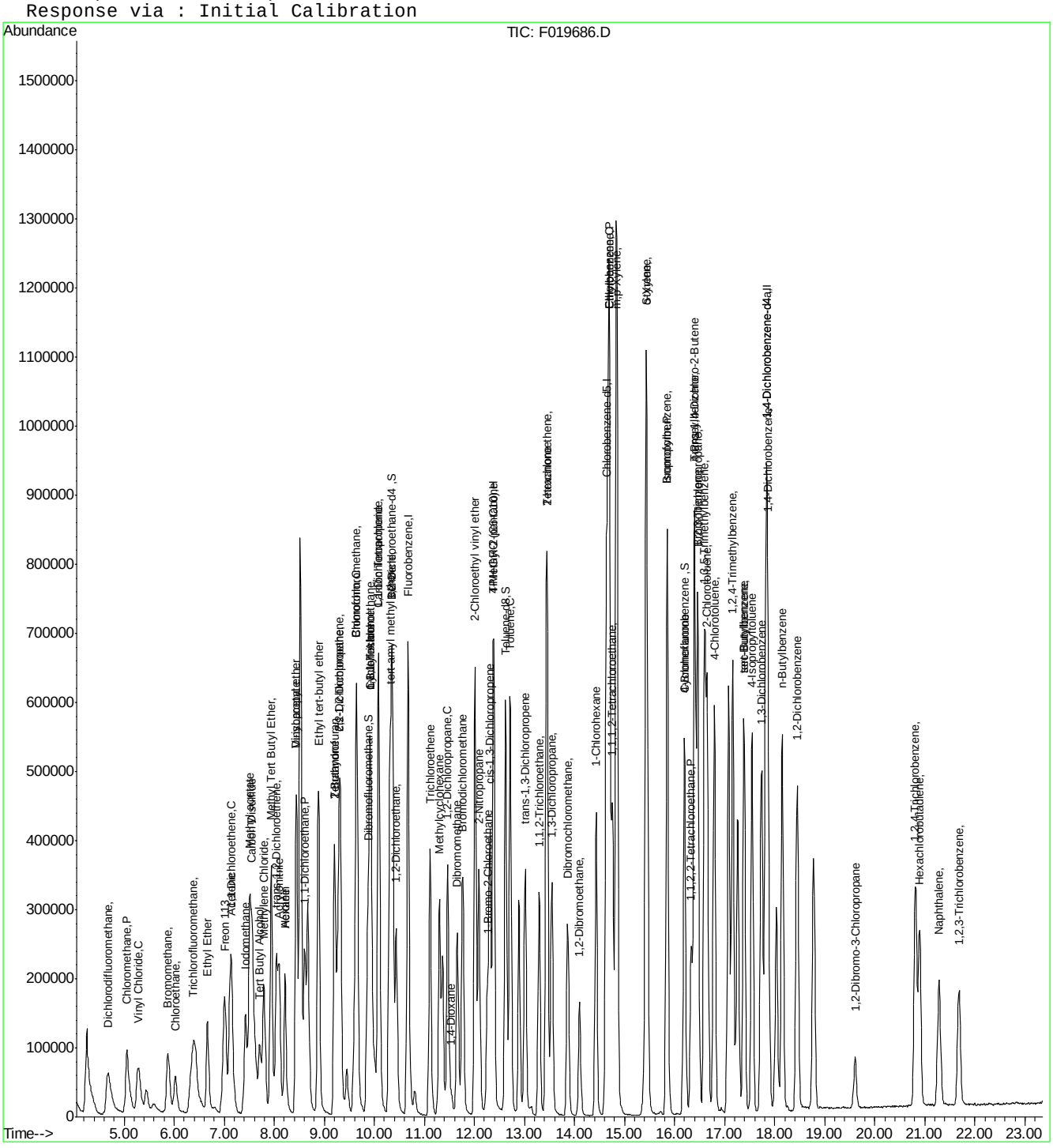
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.60	75	43953	50.61	ug/L	100
92) 1,2,4-Trichlorobenzene	20.82	180	248461	49.42	ug/L	100
93) Hexachlorobutadiene	20.90	225	111950	49.69	ug/L	100
94) Naphthalene	21.28	128	367955	50.16	ug/L	100
95) 1,2,3-Trichlorobenzene	21.69	180	137998	50.22	ug/L	100
97) TPH-GRO (C6-C10)	12.39	TIC	76500698m	1791.76	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019686.D VF3547.M Tue Sep 15 09:55:50 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019686.D Vial: 6
Acq On : 14 Sep 2009 2:31 pm Operator: AnjanaP
Sample : icc3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 15 9:01 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:57 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:12:51 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	1439708	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	1021100	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	540849	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	540849	50.00	ug/kg	0.00

System Monitoring Compounds

33) Dibromofluoromethane	9.87	113	807310	92.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 185.20%#			
38) 1,2-Dichloroethane-d4	10.34	65	1063847	84.60	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 169.20%#			
54) Toluene-d8	12.62	98	2357599	95.89	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 191.78%#			
74) 4-Bromofluorobenzene	16.19	95	1035681	95.08	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 190.16%#			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.68	85	713289	84.53	ug/L	99
3) Chloromethane	5.07	50	676020	87.04	ug/L	99
4) Vinyl Chloride	5.28	62	559205	73.01	ug/L	98
5) Bromomethane	5.87	94	428867	73.74	ug/L	98
6) Chloroethane	6.02	64	358141	92.25	ug/L	99
7) Trichlorofluoromethane	6.37	101	1111860	87.27	ug/L	100
8) Acrolein	8.21	56	316751	508.45	ug/L	96
9) Ethyl Ether	6.66	59	485395	91.81	ug/L	97
10) 1,1-Dichloroethene	7.12	61	943733	91.89	ug/L	99
11) Freon 113	7.01	101	591511	93.75	ug/L	96
12) Acetone	7.15	43	916749	469.37	ug/L	93
13) Iodomethane	7.43	142	1065520	93.20	ug/L	95
14) Methyl acetate	7.51	43	2089611	452.08	ug/L	99
15) Carbon Disulfide	7.55	76	1936962	97.23	ug/L	98
16) Methylene Chloride	7.79	49	837904	81.02	ug/L	97
17) Tert Butyl Alcohol	7.71	59	567512	921.23	ug/L	63
18) trans-1,2-Dichloroethene	8.05	61	910208	95.77	ug/L	97
19) Acrylonitrile	8.10	53	891951	544.90	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	1987039	90.71	ug/L	98
21) Hexane	8.21	57	518176	99.67	ug/L	92
22) 1,1-Dichloroethane	8.61	63	1116164	92.16	ug/L	97
23) Vinyl acetate	8.44	43	997670	461.82	ug/L	98
24) Di-isopropyl ether	8.44	45	2301021	98.74	ug/L	96
25) Ethyl tert-butyl ether	8.88	59	2225120	96.26	ug/L	99
26) 2,2-Dichloropropane	9.30	77	825455	78.15	ug/L	98
27) cis-1,2-Dichloroethene	9.32	96	765941	91.84	ug/L	98
28) 2-Butanone	9.20	43	4120207	515.98	ug/L	100
29) Bromochloromethane	9.64	128	402863	99.20	ug/L	95
30) Chloroform	9.65	83	1462582	89.73	ug/L	99
31) Tetrahydrofuran	9.21	42	346654	84.06	ug/L	99
32) 1,1,1-Trichloroethane	9.91	97	1231951	86.95	ug/L	100
34) Cyclohexane	9.93	56	848602	105.12	ug/L	91
35) n-Butyl Alcohol	9.93	43	79420	1236.15	ug/L #	85
36) 1,1-Dichloropropene	10.08	75	986569	96.04	ug/L	93

(#) = qualifier out of range (m) = manual integration
F019687.D VF3547.M Tue Sep 15 09:55:53 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:57 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:12:51 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	1071023	86.87	ug/L		98
39)	Benzene	10.36	78	2409380	102.15	ug/L		94
40)	1,2-Dichloroethane	10.44	62	1253971	87.79	ug/L		98
41)	tert-amyl methyl ether	10.31	73	2101536	96.23	ug/L		96
42)	Trichloroethene	11.12	95	785129	73.10	ug/L		97
43)	Methylcyclohexane	11.30	83	795530	105.60	ug/L		98
44)	1,2-Dichloropropane	11.46	63	599569	104.52	ug/L		88
45)	Dibromomethane	11.66	93	549422	96.98	ug/L		99
46)	1,4-Dioxane	11.55	88	131960	2102.77	ug/L		94
47)	Bromodichloromethane	11.77	83	1289830	92.39	ug/L		99
48)	2-Nitropropane	12.09	41	1247322	409.05	ug/L		97
49)	2-Chloroethyl vinyl ether	12.01	63	1693674	596.19	ug/L		97
50)	1-Bromo-2-Chloroethane	12.26	63	881945	105.06	uL/L		99
51)	4-Methyl-2-pentanone	12.39	43	2808613	496.74	ug/L		97
52)	cis-1,3-Dichloropropene	12.31	75	1308043	103.62	ug/L		92
55)	Toluene	12.72	91	2741568	100.37	ug/L		100
56)	trans-1,3-Dichloropropene	13.02	75	1201341	101.31	ug/L		96
57)	1,1,2-Trichloroethane	13.29	83	524828	103.29	ug/L		95
58)	Tetrachloroethene	13.44	166	837164	96.21	ug/L		99
59)	2-hexanone	13.46	43	2024231	518.47	ug/L		95
60)	1,3-Dichloropropane	13.55	76	1176042	102.56	ug/L		92
61)	Dibromochloromethane	13.86	129	889491	100.93	ug/L		100
62)	1,2-Dibromoethane	14.10	107	739771	103.91	ug/L		98
63)	1-Chlorohexane	14.43	91	999319	105.49	ug/L		92
64)	Chlorobenzene	14.68	112	1823936	100.40	ug/L		94
65)	1,1,1,2-Tetrachloroethane	14.76	131	756339	94.65	ug/L		97
66)	Ethylbenzene	14.70	91	3287572	94.78	ug/L		98
67)	m,p-Xylene	14.85	91	5105857	191.53	ug/L		96
68)	o-Xylene	15.43	91	2681391	97.16	ug/L		97
69)	Styrene	15.45	104	2052872	107.85	ug/L		95
70)	Bromoform	15.85	173	622075	98.47	ug/L		97
72)	Isopropylbenzene	15.86	105	2602686	108.28	ug/L		98
73)	Cyclohexanone	16.18	55	108933	567.14	ug/L		92
75)	Bromobenzene	16.46	156	900545	103.35	ug/L		98
76)	1,1,2,2-Tetrachloroethane	16.33	83	707704	107.29	ug/L		99
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	256272	104.12	ug/L	#	96
78)	1,2,3-Trichloropropane	16.46	110	259666	101.72	ug/L		90
79)	n-Propylbenzene	16.40	91	3495623	104.87	ug/L		100
80)	2-Chlorotoluene	16.65	91	2485836	98.74	ug/L		98
81)	4-Chlorotoluene	16.79	91	2358816	100.97	ug/L		96
82)	1,3,5-Trimethylbenzene	16.60	105	2301625	104.48	ug/L		100
83)	sec-Butylbenzene	17.40	105	2537476	104.04	ug/L		100
84)	1,3-Dichlorobenzene	17.74	146	1406651	103.12	ug/L		98
85)	4-Isopropyltoluene	17.55	119	2054969	103.55	ug/L		99
86)	1,4-Dichlorobenzene	17.87	146	1438104	102.21	ug/L		99
87)	tert-Butylbenzene	17.39	91	430884	103.50	ug/L		96
88)	n-Butylbenzene	18.15	91	1930950	99.13	ug/L		99
89)	1,2-Dichlorobenzene	18.46	146	1289612	99.82	ug/L		97
90)	1,2,4-Trimethylbenzene	17.17	105	2464214	104.50	ug/L		99

(#) = qualifier out of range (m) = manual integration
F019687.D VF3547.M Tue Sep 15 09:55:54 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12:57 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:12:51 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	108606	77.50	ug/L	85
92)	1,2,4-Trichlorobenzene	20.82	180	634056	90.38	ug/L	98
93)	Hexachlorobutadiene	20.90	225	288330	75.43	ug/L	96
94)	Naphthalene	21.28	128	927652	88.41	ug/L	98
95)	1,2,3-Trichlorobenzene	21.69	180	343273	76.28	ug/L	98
97)	TPH-GRO (C6-C10)	12.39	TIC	262314999m	5167.96	ug/kg	

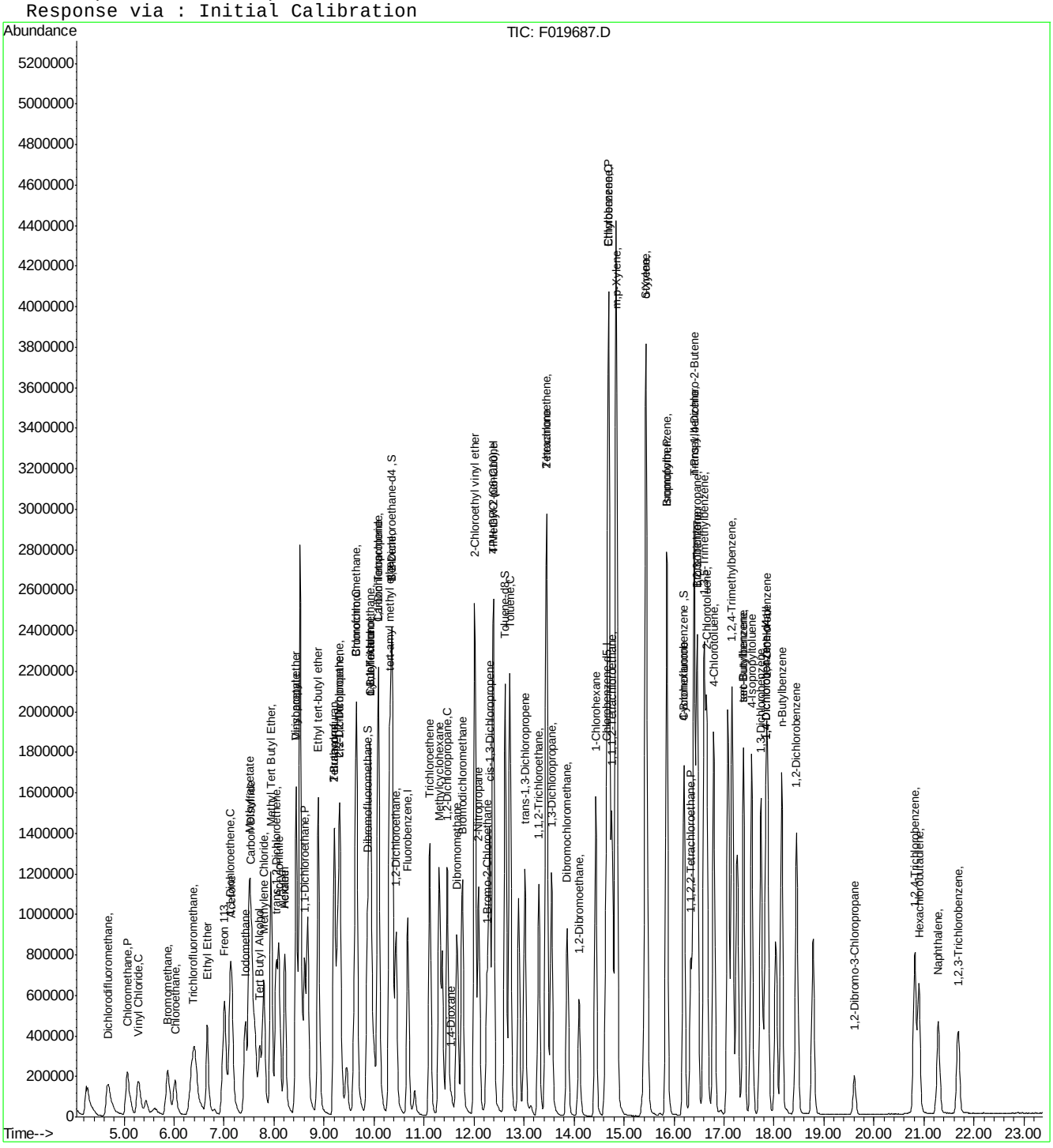
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019687.D Vial: 7
Acq On : 14 Sep 2009 3:01 pm Operator: AnjanaP
Sample : ic3547-100 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:12 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

F019688.D

Manual Integrations APPROVED (compounds with "m" flag)

Jennifer Laidlaw 09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13:53 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:13:36 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	1476971	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	1025997	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	548707	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	548707	50.00	ug/kg	0.00

System Monitoring Compounds						
33) Dibromofluoromethane	9.87	113	1659796	187.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 375.80%#			
38) 1,2-Dichloroethane-d4	10.34	65	2146010	170.73	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 341.46%#			
54) Toluene-d8	12.62	98	4995482	203.60	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 407.20%#			
74) 4-Bromofluorobenzene	16.19	95	2098803	191.49	ug/L	0.00
Spiked Amount 50.000	Range 80 - 133		Recovery = 382.98%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.68	85	1492242	176.93	ug/L	96
3) Chloromethane	5.07	50	1457668	186.98	ug/L	98
4) Vinyl Chloride	5.28	62	1220567	204.89	ug/L	96
5) Bromomethane	5.84	94	915186	160.41	ug/L	98
6) Chloroethane	6.01	64	793056	214.12	ug/L	99
7) Trichlorofluoromethane	6.35	101	2434945	211.03	ug/L	100
8) Acrolein	8.21	56	636030	992.40	ug/L	96
9) Ethyl Ether	6.66	59	1028447	192.23	ug/L	99
10) 1,1-Dichloroethene	7.12	61	2017355	194.10	ug/L	98
11) Freon 113	7.01	101	1303615	214.21	ug/L	94
12) Acetone	7.16	43	1840933	979.10	ug/L	92
13) Iodomethane	7.43	142	2147119	185.16	ug/L	94
14) Methyl acetate	7.51	43	4294360	920.34	ug/L	98
15) Carbon Disulfide	7.54	76	4135455	203.28	ug/L	97
16) Methylene Chloride	7.80	49	1712823	166.71	ug/L	99
17) Tert Butyl Alcohol	7.73	59	1143348	1833.21	ug/L	77
18) trans-1,2-Dichloroethene	8.05	61	1888547	195.08	ug/L	98
19) Acrylonitrile	8.11	53	1863395	1093.28	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	4050248	183.06	ug/L	97
21) Hexane	8.21	57	1065780	199.93	ug/L	89
22) 1,1-Dichloroethane	8.61	63	2348984	191.56	ug/L	96
23) Vinyl acetate	8.45	43	1952353	892.30	ug/L	97
24) Di-isopropyl ether	8.44	45	4754627	199.29	ug/L	94
25) Ethyl tert-butyl ether	8.88	59	4524258	191.99	ug/L	98
26) 2,2-Dichloropropane	9.30	77	1556808	149.10	ug/L	96
27) cis-1,2-Dichloroethene	9.33	96	1613625	191.19	ug/L	93
28) 2-Butanone	9.21	43	8380228	1017.58	ug/L	100
29) Bromochloromethane	9.64	128	819400	196.95	ug/L	96
30) Chloroform	9.65	83	2893627	176.06	ug/L	99
31) Tetrahydrofuran	9.21	42	701728	193.50	ug/L	97
32) 1,1,1-Trichloroethane	9.91	97	2429943	170.89	ug/L	99
34) Cyclohexane	9.94	56	1706287	204.29	ug/L	91
35) n-Butyl Alcohol	9.93	43	152172	1904.44	ug/L #	84
36) 1,1-Dichloropropene	10.08	75	1960437	187.26	ug/L	92

(#) = qualifier out of range (m) = manual integration
F019688.D VF3547.M Tue Sep 15 09:55:56 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13:53 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:13:36 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	2141524	173.11	ug/L		98
39)	Benzene	10.36	78	4786563	197.10	ug/L		95
40)	1,2-Dichloroethane	10.44	62	2460607	171.40	ug/L		97
41)	tert-amyl methyl ether	10.31	73	4180960	187.79	ug/L		97
42)	Trichloroethene	11.12	95	1598004	151.83	ug/L		98
43)	Methylcyclohexane	11.30	83	1569193	201.16	ug/L		99
44)	1,2-Dichloropropane	11.47	63	1234605	208.23	ug/L		86
45)	Dibromomethane	11.66	93	1100434	190.29	ug/L		98
46)	1,4-Dioxane	11.55	88	269055	3961.68	ug/L		92
47)	Bromodichloromethane	11.77	83	2550542	180.37	ug/L		100
48)	2-Nitropropane	12.10	41	2395577	789.74	ug/L		97
49)	2-Chloroethyl vinyl ether	12.01	63	3441389	1144.15	ug/L		98
50)	1-Bromo-2-Chloroethane	12.26	63	1773914	204.27	uL/L		99
51)	4-Methyl-2-pentanone	12.39	43	5575494	962.26	ug/L		96
52)	cis-1,3-Dichloropropene	12.32	75	2601305	199.67	ug/L		90
55)	Toluene	12.72	91	5568197	202.75	ug/L		99
56)	trans-1,3-Dichloropropene	13.02	75	2382181	199.49	ug/L		95
57)	1,1,2-Trichloroethane	13.30	83	1051897	204.91	ug/L		93
58)	Tetrachloroethene	13.44	166	1684894	193.94	ug/L		99
59)	2-hexanone	13.46	43	3946765	999.92	ug/L		94
60)	1,3-Dichloropropane	13.55	76	2330148	201.38	ug/L		92
61)	Dibromochloromethane	13.87	129	1789924	201.82	ug/L		99
62)	1,2-Dibromoethane	14.10	107	1490475	207.01	ug/L		98
63)	1-Chlorohexane	14.43	91	1980649	206.19	ug/L		93
64)	Chlorobenzene	14.69	112	3643366	199.46	ug/L		95
65)	1,1,1,2-Tetrachloroethane	14.76	131	1505471	189.18	ug/L		95
66)	Ethylbenzene	14.70	91	6513282	188.52	ug/L		99
67)	m,p-Xylene	14.85	91	9998480	375.93	ug/L		96
68)	o-Xylene	15.43	91	5281271	191.35	ug/L		97
69)	Styrene	15.46	104	4058969	209.48	ug/L		91
70)	Bromoform	15.85	173	1248450	197.18	ug/L		97
72)	Isopropylbenzene	15.86	105	5112837	206.82	ug/L		98
73)	Cyclohexanone	16.19	55	209175	954.19	ug/L		95
75)	Bromobenzene	16.47	156	1767695	198.85	ug/L		97
76)	1,1,2,2-Tetrachloroethane	16.34	83	1378777	203.56	ug/L		99
77)	Trans-1,4-Dichloro-2-Buten	16.41	53	502682	199.94	ug/L	#	96
78)	1,2,3-Trichloropropane	16.46	110	507411	195.37	ug/L		92
79)	n-Propylbenzene	16.40	91	6771023	198.62	ug/L		100
80)	2-Chlorotoluene	16.66	91	4850993	190.33	ug/L		98
81)	4-Chlorotoluene	16.79	91	4613606	194.34	ug/L		96
82)	1,3,5-Trimethylbenzene	16.61	105	4528891	201.13	ug/L		98
83)	sec-Butylbenzene	17.39	105	4898318	196.64	ug/L		100
84)	1,3-Dichlorobenzene	17.74	146	2726747	196.01	ug/L		98
85)	4-Isopropyltoluene	17.55	119	3982704	196.64	ug/L		100
86)	1,4-Dichlorobenzene	17.87	146	2812589	196.31	ug/L		99
87)	tert-Butylbenzene	17.39	91	832680	191.43	ug/L		91
88)	n-Butylbenzene	18.15	91	3703796	187.69	ug/L		98
89)	1,2-Dichlorobenzene	18.46	146	2500221	190.81	ug/L		96
90)	1,2,4-Trimethylbenzene	17.17	105	4794167	198.90	ug/L		99

(#) = qualifier out of range (m) = manual integration
F019688.D VF3547.M Tue Sep 15 09:55:57 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13:53 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:13:36 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

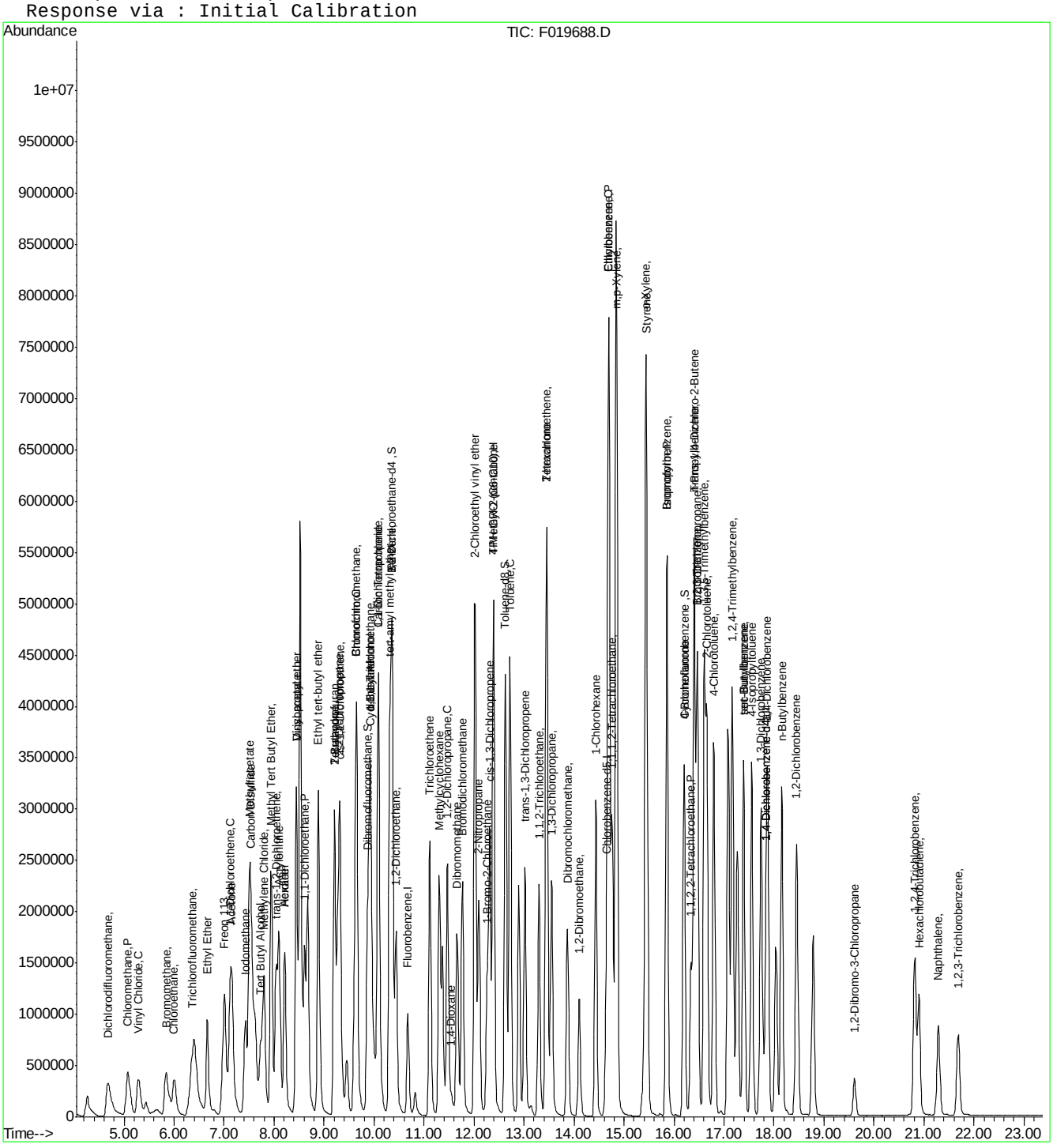
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	209616	153.18	ug/L	87
92)	1,2,4-Trichlorobenzene	20.82	180	1235269	176.39	ug/L	100
93)	Hexachlorobutadiene	20.90	225	536202	144.17	ug/L	97
94)	Naphthalene	21.28	128	1803651	172.78	ug/L	100
95)	1,2,3-Trichlorobenzene	21.68	180	669734	152.72	ug/L	98
97)	TPH-GRO (C6-C10)	12.39	TIC	547322666m	8238.03	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019688.D Vial: 8
Acq On : 14 Sep 2009 3:31 pm Operator: AnjanaP
Sample : ic3547-200 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:13 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21:12 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:20:48 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	1373790	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	980668	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	560245	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	560245	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.87	113	359851	44.18	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 88.36%			
38) 1,2-Dichloroethane-d4	10.34	65	473223	41.34	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 82.68%			
54) Toluene-d8	12.62	98	1106653	47.07	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 94.14%			
74) 4-Bromofluorobenzene	16.20	95	486748	45.98	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 91.96%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.67	85	192937	25.01	ug/L	93
3) Chloromethane	5.06	50	248207	35.60	ug/L	96
4) Vinyl Chloride	5.28	62	210341	35.92	ug/L	96
5) Bromomethane	5.88	94	169958	38.53	ug/L	98
6) Chloroethane	6.03	64	127170	34.67	ug/L	99
7) Trichlorofluoromethane	6.37	101	375252	31.47	ug/L	99
8) Acrolein	8.21	56	127971	214.90	ug/L	99
9) Ethyl Ether	6.67	59	167179	33.78	ug/L	99
10) 1,1-Dichloroethene	7.12	61	381532	39.63	ug/L	98
11) Freon 113	7.01	101	246918	39.90	ug/L	96
12) Acetone	7.15	43	353713	197.04	ug/L	90
13) Iodomethane	7.43	142	458179	42.93	ug/L	94
14) Methyl acetate	7.51	43	785474	198.50	ug/L	97
15) Carbon Disulfide	7.55	76	831950	43.86	ug/L	98
16) Methylene Chloride	7.79	49	320141	39.63	ug/L	99
17) Tert Butyl Alcohol	7.71	59	210067	366.48	ug/L	92
18) trans-1,2-Dichloroethene	8.05	61	369280	41.15	ug/L	98
19) Acrylonitrile	8.11	53	344422	214.40	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	773244	38.03	ug/L	97
21) Hexane	8.22	57	215854	43.54	ug/L	88
22) 1,1-Dichloroethane	8.61	63	437518	38.59	ug/L	96
23) Vinyl acetate	8.44	43	374583	186.93	ug/L	97
24) Di-isopropyl ether	8.44	45	885451	39.92	ug/L	96
25) Ethyl tert-butyl ether	8.88	59	830768	38.12	ug/L	98
26) 2,2-Dichloropropane	9.30	77	321175	34.32	ug/L	97
27) cis-1,2-Dichloroethene	9.33	96	295716	37.91	ug/L	95
28) 2-Butanone	9.21	43	1536273	200.05	ug/L	100
29) Bromochloromethane	9.64	128	153249	39.69	ug/L	88
30) Chloroform	9.65	83	551988	36.74	ug/L	99
31) Tetrahydrofuran	9.21	42	133158	39.30	ug/L	99
32) 1,1,1-Trichloroethane	9.92	97	460991	35.60	ug/L	97
34) Cyclohexane	9.93	56	337871	43.36	ug/L	92
35) n-Butyl Alcohol	9.94	43	27949	391.56	ug/L #	77
36) 1,1-Dichloropropene	10.08	75	368194	38.16	ug/L	96

(#) = qualifier out of range (m) = manual integration
F019690.D VF3547.M Tue Sep 15 09:56:00 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21:12 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:20:48 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Carbon Tetrachloride	10.08	117	398571	35.32	ug/L		99
39)	Benzene	10.37	78	913929	40.54	ug/L		90
40)	1,2-Dichloroethane	10.44	62	465945	35.62	ug/L		98
41)	tert-amyl methyl ether	10.31	73	768253	37.42	ug/L		97
42)	Trichloroethene	11.12	95	298728	39.23	ug/L		98
43)	Methylcyclohexane	11.30	83	305984	42.14	ug/L		98
44)	1,2-Dichloropropane	11.47	63	228436	41.18	ug/L		89
45)	Dibromomethane	11.66	93	203805	38.15	ug/L		98
46)	1,4-Dioxane	11.54	88	49048	880.66	ug/L		91
47)	Bromodichloromethane	11.77	83	456093	35.17	ug/L		100
48)	2-Nitropropane	12.09	41	501123	183.11	ug/L		97
49)	2-Chloroethyl vinyl ether	12.01	63	592457	207.49	ug/L		99
50)	1-Bromo-2-Chloroethane	12.26	63	334615	41.30	uL/L		100
51)	4-Methyl-2-pentanone	12.39	43	1071125	199.82	ug/L		97
52)	cis-1,3-Dichloropropene	12.31	75	479641	39.59	ug/L		92
55)	Toluene	12.72	91	1057431	40.20	ug/L		98
56)	trans-1,3-Dichloropropene	13.02	75	464985	40.75	ug/L		95
57)	1,1,2-Trichloroethane	13.30	83	192826	39.16	ug/L		94
58)	Tetrachloroethene	13.44	166	311594	37.69	ug/L		99
59)	2-hexanone	13.46	43	736532	195.23	ug/L		95
60)	1,3-Dichloropropane	13.55	76	424250	38.32	ug/L		93
61)	Dibromochloromethane	13.86	129	320773	37.79	ug/L		99
62)	1,2-Dibromoethane	14.10	107	275632	39.85	ug/L		99
63)	1-Chlorohexane	14.43	91	375033	40.67	ug/L		95
64)	Chlorobenzene	14.69	112	697906	39.99	ug/L		96
65)	1,1,1,2-Tetrachloroethane	14.76	131	281931	37.35	ug/L		94
66)	Ethylbenzene	14.70	91	1241852	37.92	ug/L		99
67)	m,p-Xylene	14.85	91	1951024	77.41	ug/L		97
68)	o-Xylene	15.43	91	1056520	40.30	ug/L		96
69)	Styrene	15.45	104	761871	40.86	ug/L		96
70)	Bromoform	15.85	173	232880	38.56	ug/L		99
72)	Isopropylbenzene	15.86	105	1068498	42.13	ug/L		97
73)	Cyclohexanone	16.19	55	75906	353.97	ug/L	#	81
75)	Bromobenzene	16.47	156	358461	39.53	ug/L		100
76)	1,1,2,2-Tetrachloroethane	16.33	83	276180	39.83	ug/L		100
77)	Trans-1,4-Dichloro-2-Buten	16.40	53	99652	38.82	ug/L	#	95
78)	1,2,3-Trichloropropane	16.46	110	92253	34.90	ug/L		93
79)	n-Propylbenzene	16.40	91	1391425	40.01	ug/L		99
80)	2-Chlorotoluene	16.66	91	994862	38.50	ug/L		97
81)	4-Chlorotoluene	16.80	91	939398	38.91	ug/L		96
82)	1,3,5-Trimethylbenzene	16.60	105	923721	40.15	ug/L		100
83)	sec-Butylbenzene	17.40	105	1021073	40.24	ug/L		99
84)	1,3-Dichlorobenzene	17.74	146	561076	39.61	ug/L		98
85)	4-Isopropyltoluene	17.55	119	810567	39.29	ug/L		100
86)	1,4-Dichlorobenzene	17.87	146	578151	39.63	ug/L		98
87)	tert-Butylbenzene	17.39	91	173634	39.70	ug/L		92
88)	n-Butylbenzene	18.15	91	749593	37.53	ug/L		99
89)	1,2-Dichlorobenzene	18.46	146	516399	38.85	ug/L		96
90)	1,2,4-Trimethylbenzene	17.17	105	957040	38.92	ug/L		98

(#) = qualifier out of range (m) = manual integration
F019690.D VF3547.M Tue Sep 15 09:56:00 2009

ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21:12 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:20:48 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

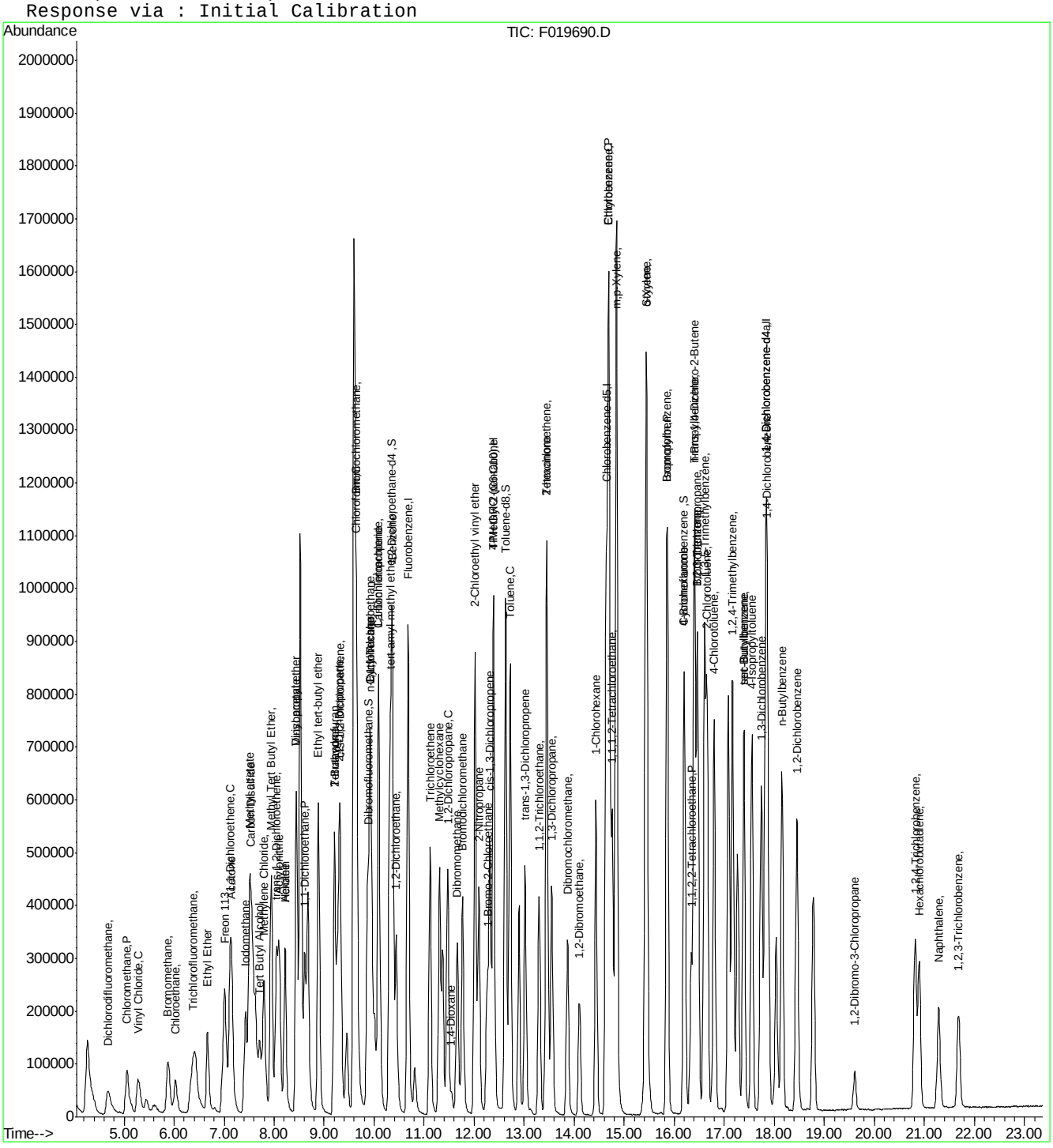
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.61	75	43287	37.19	ug/L	89
92) 1,2,4-Trichlorobenzene	20.82	180	259982	39.02	ug/L	98
93) Hexachlorobutadiene	20.90	225	124330	41.52	ug/L	98
94) Naphthalene	21.29	128	388968	40.05	ug/L	100
95) 1,2,3-Trichlorobenzene	21.69	180	150896	41.43	ug/L	99
97) TPH-GRO (C6-C10)	12.39	TIC	106578563m	1901.22	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F019690.D VF3547.M Tue Sep 15 09:56:00 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Jennifer Laidlaw
09/15/09 17:42

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21:12 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:20:48 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.67	96	1373790	50.00	ug/L	0.00
53) Chlorobenzene-d5	14.64	117	980668	50.00	ug/L	0.00
71) 1,4-Dichlorobenzene-d4	17.83	152	560245	50.00	ug/L	0.00
96) 1,4-Dichlorobenzene-d4a	17.83	152	560245	50.00	ug/kg	0.00
System Monitoring Compounds						
33) Dibromofluoromethane	9.87	113	359851	44.18	ug/L	0.00
Spiked Amount 50.000	Range 79 - 122		Recovery = 88.36%			
38) 1,2-Dichloroethane-d4	10.34	65	473223	41.34	ug/L	0.00
Spiked Amount 50.000	Range 75 - 121		Recovery = 82.68%			
54) Toluene-d8	12.62	98	1106653	47.07	ug/L	0.00
Spiked Amount 50.000	Range 87 - 119		Recovery = 94.14%			
74) 4-Bromofluorobenzene	16.20	95	486748	45.98	ug/L	0.01
Spiked Amount 50.000	Range 80 - 133		Recovery = 91.96%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.67	85	192937	25.01	ug/L	93
3) Chloromethane	5.06	50	248207	35.60	ug/L	96
4) Vinyl Chloride	5.28	62	210341	35.92	ug/L	96
5) Bromomethane	5.88	94	169958	38.53	ug/L	98
6) Chloroethane	6.03	64	127170	34.67	ug/L	99
7) Trichlorofluoromethane	6.37	101	375252	31.47	ug/L	99
8) Acrolein	8.21	56	127971	214.90	ug/L	99
9) Ethyl Ether	6.67	59	167179	33.78	ug/L	99
10) 1,1-Dichloroethene	7.12	61	381532	39.63	ug/L	98
11) Freon 113	7.01	101	246918	39.90	ug/L	96
12) Acetone	7.15	43	353713	197.04	ug/L	90
13) Iodomethane	7.43	142	458179	42.93	ug/L	94
14) Methyl acetate	7.51	43	785474	198.50	ug/L	97
15) Carbon Disulfide	7.55	76	831950	43.86	ug/L	98
16) Methylene Chloride	7.79	49	320141	39.63	ug/L	99
17) Tert Butyl Alcohol	7.71	59	210067	366.48	ug/L	92
18) trans-1,2-Dichloroethene	8.05	61	369280	41.15	ug/L	98
19) Acrylonitrile	8.11	53	344422	214.40	ug/L	96
20) Methyl Tert Butyl Ether	7.94	73	773244	38.03	ug/L	97
21) Hexane	8.22	57	215854	43.54	ug/L	88
22) 1,1-Dichloroethane	8.61	63	437518	38.59	ug/L	96
23) Vinyl acetate	8.44	43	374583	186.93	ug/L	97
24) Di-isopropyl ether	8.44	45	885451	39.92	ug/L	96
25) Ethyl tert-butyl ether	8.88	59	830768	38.12	ug/L	98
26) 2,2-Dichloropropane	9.30	77	321175	34.32	ug/L	97
27) cis-1,2-Dichloroethene	9.33	96	295716	37.91	ug/L	95
28) 2-Butanone	9.21	43	1536273	200.05	ug/L	100
29) Bromochloromethane	9.64	128	153249	39.69	ug/L	88
30) Chloroform	9.65	83	551988	36.74	ug/L	99
31) Tetrahydrofuran	9.21	42	133158	39.30	ug/L	99
32) 1,1,1-Trichloroethane	9.92	97	460991	35.60	ug/L	97
34) Cyclohexane	9.93	56	337871	43.36	ug/L	92
35) n-Butyl Alcohol	9.94	43	27949	391.56	ug/L #	77
36) 1,1-Dichloropropene	10.08	75	368194	38.16	ug/L	96

(#) = qualifier out of range (m) = manual integration
F019690.D VF3547.M Tue Sep 15 09:56:00 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21:12 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:20:48 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Carbon Tetrachloride	10.08	117	398571	35.32	ug/L		99
39) Benzene	10.37	78	913929	40.54	ug/L		90
40) 1,2-Dichloroethane	10.44	62	465945	35.62	ug/L		98
41) tert-amyl methyl ether	10.31	73	768253	37.42	ug/L		97
42) Trichloroethene	11.12	95	298728	39.23	ug/L		98
43) Methylcyclohexane	11.30	83	305984	42.14	ug/L		98
44) 1,2-Dichloropropane	11.47	63	228436	41.18	ug/L		89
45) Dibromomethane	11.66	93	203805	38.15	ug/L		98
46) 1,4-Dioxane	11.54	88	49048	880.66	ug/L		91
47) Bromodichloromethane	11.77	83	456093	35.17	ug/L		100
48) 2-Nitropropane	12.09	41	501123	183.11	ug/L		97
49) 2-Chloroethyl vinyl ether	12.01	63	592457	207.49	ug/L		99
50) 1-Bromo-2-Chloroethane	12.26	63	334615	41.30	uL/L		100
51) 4-Methyl-2-pentanone	12.39	43	1071125	199.82	ug/L		97
52) cis-1,3-Dichloropropene	12.31	75	479641	39.59	ug/L		92
55) Toluene	12.72	91	1057431	40.20	ug/L		98
56) trans-1,3-Dichloropropene	13.02	75	464985	40.75	ug/L		95
57) 1,1,2-Trichloroethane	13.30	83	192826	39.16	ug/L		94
58) Tetrachloroethene	13.44	166	311594	37.69	ug/L		99
59) 2-hexanone	13.46	43	736532	195.23	ug/L		95
60) 1,3-Dichloropropane	13.55	76	424250	38.32	ug/L		93
61) Dibromochloromethane	13.86	129	320773	37.79	ug/L		99
62) 1,2-Dibromoethane	14.10	107	275632	39.85	ug/L		99
63) 1-Chlorohexane	14.43	91	375033	40.67	ug/L		95
64) Chlorobenzene	14.69	112	697906	39.99	ug/L		96
65) 1,1,1,2-Tetrachloroethane	14.76	131	281931	37.35	ug/L		94
66) Ethylbenzene	14.70	91	1241852	37.92	ug/L		99
67) m,p-Xylene	14.85	91	1951024	77.41	ug/L		97
68) o-Xylene	15.43	91	1056520	40.30	ug/L		96
69) Styrene	15.45	104	761871	40.86	ug/L		96
70) Bromoform	15.85	173	232880	38.56	ug/L		99
72) Isopropylbenzene	15.86	105	1068498	42.13	ug/L		97
73) Cyclohexanone	16.19	55	75906	353.97	ug/L	#	81
75) Bromobenzene	16.47	156	358461	39.53	ug/L		100
76) 1,1,2,2-Tetrachloroethane	16.33	83	276180	39.83	ug/L		100
77) Trans-1,4-Dichloro-2-Buten	16.40	53	99652	38.82	ug/L	#	95
78) 1,2,3-Trichloropropane	16.46	110	92253	34.90	ug/L		93
79) n-Propylbenzene	16.40	91	1391425	40.01	ug/L		99
80) 2-Chlorotoluene	16.66	91	994862	38.50	ug/L		97
81) 4-Chlorotoluene	16.80	91	939398	38.91	ug/L		96
82) 1,3,5-Trimethylbenzene	16.60	105	923721	40.15	ug/L		100
83) sec-Butylbenzene	17.40	105	1021073	40.24	ug/L		99
84) 1,3-Dichlorobenzene	17.74	146	561076	39.61	ug/L		98
85) 4-Isopropyltoluene	17.55	119	810567	39.29	ug/L		100
86) 1,4-Dichlorobenzene	17.87	146	578151	39.63	ug/L		98
87) tert-Butylbenzene	17.39	91	173634	39.70	ug/L		92
88) n-Butylbenzene	18.15	91	749593	37.53	ug/L		99
89) 1,2-Dichlorobenzene	18.46	146	516399	38.85	ug/L		96
90) 1,2,4-Trimethylbenzene	17.17	105	957040	38.92	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21:12 2009 Quant Results File: VF3547.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Mon Sep 14 17:20:48 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

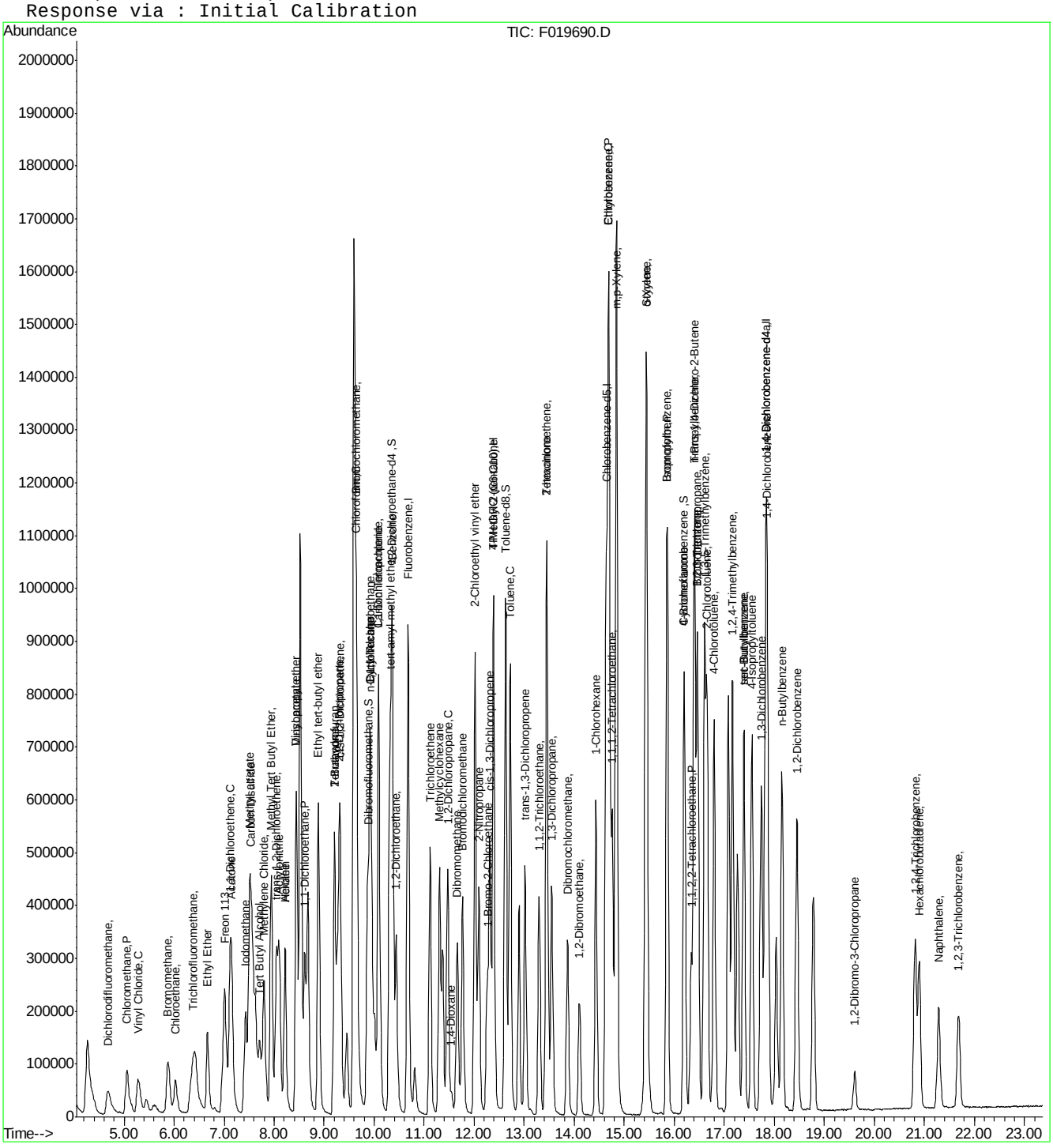
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	43287	37.19	ug/L	89
92)	1,2,4-Trichlorobenzene	20.82	180	259982	39.02	ug/L	98
93)	Hexachlorobutadiene	20.90	225	124330	41.52	ug/L	98
94)	Naphthalene	21.29	128	388968	40.05	ug/L	100
95)	1,2,3-Trichlorobenzene	21.69	180	150896	41.43	ug/L	99
97)	TPH-GRO (C6-C10)	12.39	TIC	106578563m	1901.22	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3548\F019690.D Vial: 10
Acq On : 14 Sep 2009 4:31 pm Operator: AnjanaP
Sample : icv3547-40 Inst : GC/MS F
Misc : ms6979,vf3548,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 17:21 2009 Quant Results File: VF3547.RES

Method : C:\MSDCHEM\2\METHODS\VF3547.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Tue Sep 15 08:59:11 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Manual Integrations
APPROVED
(compounds with "m" flag)
Jennifer Laidlaw
10/12/09 15:28

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020655.D Vial: 3
Acq On : 9 Oct 2009 11:52 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7097,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:53:17 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.63	96	1000588	50.00	ug/L	0.01
61) Chlorobenzene-d5	14.60	117	783381	50.00	ug/L	0.01
80) 1,4-Dichlorobenzene-d4	17.79	152	449234	50.00	ug/L	0.01
107) 1,4-Dichlorobenzene-d4a	17.79	152	449234	50.00	ug/kg	0.01

System Monitoring Compounds

39) Dibromofluoromethane	9.83	113	232252	39.15	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 78.30%#			
45) 1,2-Dichloroethane-d4	10.31	65	306080	40.24	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 80.48%			
62) Toluene-d8	12.59	98	655878	35.86	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 71.72%#			
83) 4-Bromofluorobenzene	16.16	95	293677	34.76	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 69.52%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.65	85	214568	38.18	ug/L	97
3) Chloromethane	5.01	50	155280	30.39	ug/L	100
4) Vinyl Chloride	5.23	62	156990	37.14	ug/L	97
5) Bromomethane	5.83	94	154196	48.48	ug/L	97
6) Chloroethane	5.98	64	114542	42.87	ug/L	98
7) Trichlorofluoromethane	6.35	101	328256	37.80	ug/L	99
8) Acrolein	8.18	56	92253	212.71	ug/L	100
9) Ethyl Ether	6.63	59	137985	38.28	ug/L	95
10) 1,1-Dichloroethene	7.07	61	326861	46.62	ug/L	95
11) Freon 113	6.97	101	206607	45.83	ug/L	95
12) Acetone	7.11	43	248017	189.28	ug/L	97
13) Iodomethane	7.38	142	372296	47.90	ug/L	96
14) Methyl acetate	7.47	43	563211	195.46	ug/L	98
15) Allyl Chloride	7.53	41	218150m	43.28	uL/L	
16) Carbon Disulfide	7.52	76	596070	43.15	ug/L	92
17) Acetonitrile	7.53	41	109334m	120.27	uL/L	
18) Methylene Chloride	7.74	49	260651	44.37	ug/L	97
19) Tert Butyl Alcohol	7.67	59	151592	363.10	ug/L	94
20) trans-1,2-Dichloroethene	8.01	61	291892	44.66	ug/L	94
21) Acrylonitrile	8.07	53	212925	181.98	ug/L	96
22) Methyl Tert Butyl Ether	7.90	73	614230	41.48	ug/L	99
23) Hexane	8.18	57	148741	41.19	ug/L	95
24) 1,1-Dichloroethane	8.58	63	348580	42.22	ug/L	99
25) Vinyl acetate	8.49	43	2090375	201.66	ug/L	98
26) Di-isopropyl ether	8.40	45	640767	39.66	ug/L	98
27) Chloroprene	8.64	53	314607	41.10	uL/L	96
28) Ethyl tert-butyl ether	8.84	59	676772	42.64	ug/L	99
29) 2,2-Dichloropropane	9.26	77	261766	38.40	ug/L	99
30) cis-1,2-Dichloroethene	9.29	96	229816	40.45	ug/L	88
31) Ethyl Acetate	9.17	43	1102578	197.13	uL/L	98
32) 2-Butanone	9.17	43	1102578	197.13	ug/L	100
33) Propionitrile	9.41	54	87826	205.27	uL/L	95
34) Methacrylonitrile	9.56	41	136424	36.30	uL/L	96
35) Bromochloromethane	9.60	128	124857	44.39	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020655.D Vial: 3
Acq On : 9 Oct 2009 11:52 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7097,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:53:17 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36)	Chloroform	9.61	83	452741	41.37 ug/L	99
37)	Tetrahydrofuran	9.17	42	102185	41.50 ug/L	97
38)	1,1,1-Trichloroethane	9.87	97	385078	40.82 ug/L	100
40)	Cyclohexane	9.90	56	236487	41.67 ug/L	92
41)	Isobutyl Alcohol	9.97	43	39383	573.55 uL/L	93
42)	n-Butyl Alcohol	10.77	56	22672	558.94 ug/L	85
43)	1,1-Dichloropropene	10.04	75	307536	43.76 ug/L	94
44)	Carbon Tetrachloride	10.05	117	344802	41.95 ug/L	98
46)	Benzene	10.33	78	715136	43.56 ug/L	87
47)	1,2-Dichloroethane	10.40	62	379607	39.85 ug/L	98
48)	tert-amyl methyl ether	10.27	73	632989	42.34 ug/L	97
49)	Trichloroethene	11.08	95	239657	43.33 ug/L	98
50)	Methylcyclohexane	11.26	83	220385	41.67 ug/L	96
51)	Methyl Methacrylate	11.33	41	179345	40.90 uL/L	95
52)	1,2-Dichloropropane	11.43	63	171316	42.40 ug/L	92
53)	Dibromomethane	11.62	93	164429	42.26 ug/L	98
54)	1,4-Dioxane	11.51	88	33043	814.58 ug/L	96
55)	Bromodichloromethane	11.73	83	373338	39.53 ug/L	97
56)	2-Nitropropane	12.05	41	363143	182.19 ug/L	98
57)	2-Chloroethyl vinyl ether	11.98	63	502057	241.42 ug/L	97
58)	1-Bromo-2-Chloroethane	12.22	63	173908	29.47 uL/L	97
59)	4-Methyl-2-pentanone	12.35	43	723721	185.37 ug/L	98
60)	cis-1,3-Dichloropropene	12.28	75	363284	41.17 ug/L	93
63)	Toluene	12.68	91	818882	38.97 ug/L	100
64)	Ethyl Methacrylate	12.86	69	262454	39.17 uL/:	97
65)	trans-1,3-Dichloropropene	12.98	75	340678	37.38 ug/L	96
66)	1,1,2-Trichloroethane	13.26	83	150344	38.22 ug/L	95
67)	Tetrachloroethene	13.41	166	252663	38.26 ug/L	97
68)	2-hexanone	13.42	43	511167	169.61 ug/L	94
69)	1,3-Dichloropropane	13.52	76	331985	37.54 ug/L	91
70)	Dibromochloromethane	13.82	129	251960	37.16 ug/L	97
71)	1,2-Dibromoethane	14.06	107	209628	37.94 ug/L	100
72)	1-Chlorohexane	14.40	91	277505	37.67 ug/L	85
73)	Chlorobenzene	14.65	112	538129	38.60 ug/L	95
74)	1,1,1,2-Tetrachloroethane	14.72	131	225829	37.46 ug/L	96
75)	Ethylbenzene	14.66	91	973623	37.21 ug/L	100
76)	m,p-Xylene	14.81	91	1503364	74.67 ug/L	97
77)	o-Xylene	15.39	91	788498	37.65 ug/L	96
78)	Styrene	15.42	104	593359	39.84 ug/L	91
79)	Bromoform	15.82	173	171974	35.64 ug/L	98
81)	Isopropylbenzene	15.82	105	720921	35.45 ug/L	98
82)	Cyclohexanone	16.16	55	30773	180.36 ug/L	98
84)	Bromobenzene	16.43	156	274748	37.78 ug/L	97
85)	1,1,2,2-Tetrachloroethane	16.30	83	183489	33.01 ug/L	98
86)	Trans-1,4-Dichloro-2-Buten	16.37	53	58478	28.41 ug/L #	90
87)	1,2,3-Trichloropropane	16.43	110	72603	34.26 ug/L	87
88)	n-Propylbenzene	16.36	91	976344	35.02 ug/L	99
89)	2-Chlorotoluene	16.62	91	719944	34.74 ug/L	99
90)	4-Chlorotoluene	16.76	91	682949	35.28 ug/L	96

(#) = qualifier out of range (m) = manual integration
F020655.D VF3547AP9G.M Mon Oct 12 11:54:10 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020655.D Vial: 3
Acq On : 9 Oct 2009 11:52 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7097,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:53:17 2009 Quant Results File: VF3547AP9G.RES

Quant Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration
DataAcq Meth : 8260B

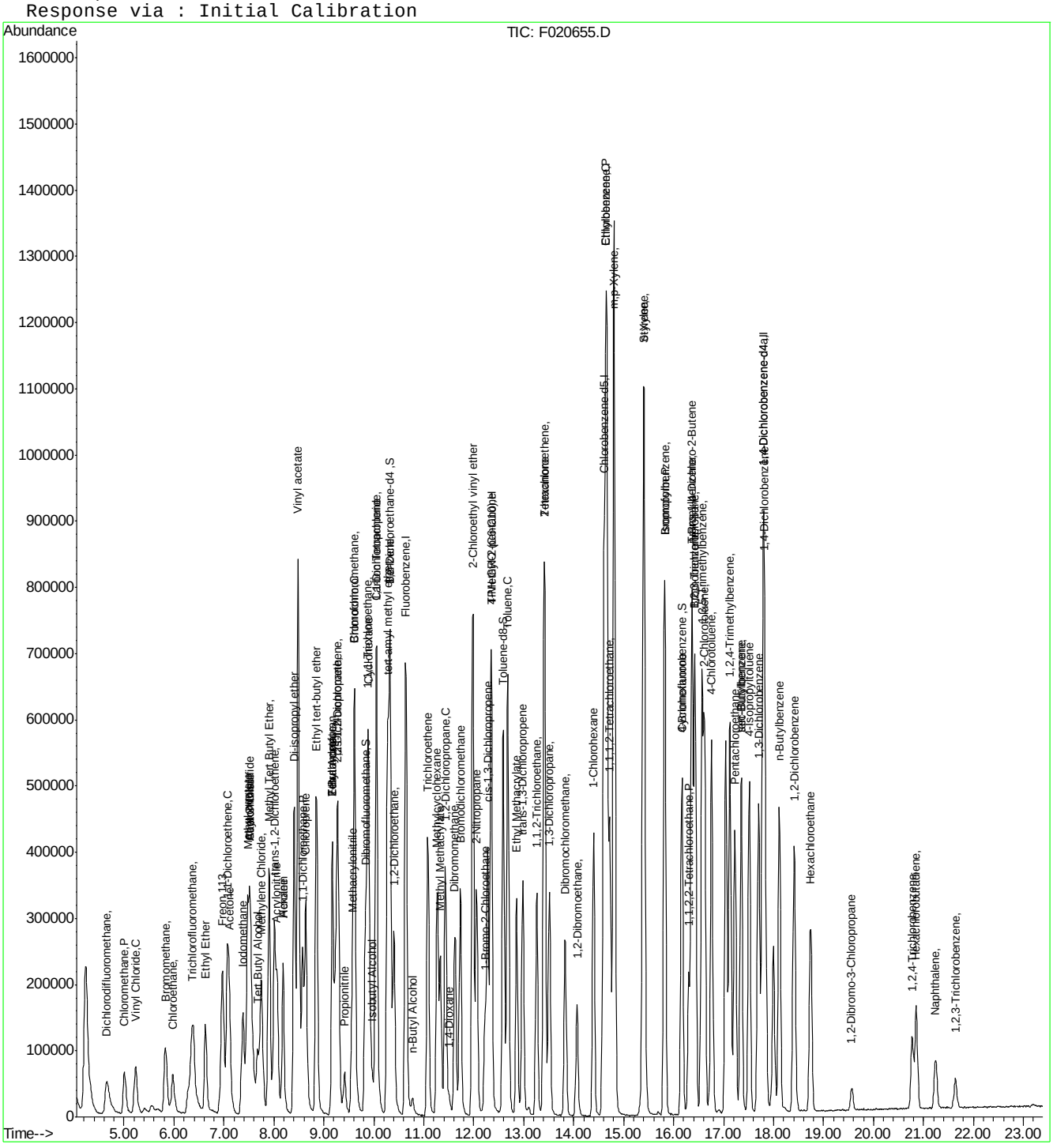
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.57	105	647902	35.12	ug/L	98
92)	Pentachloroethane	17.23	167	178656	38.09	uL/L	99
93)	sec-Butylbenzene	17.36	105	698551	34.33	ug/L	99
94)	1,3-Dichlorobenzene	17.70	146	412825	36.35	ug/L	98
95)	4-Isopropyltoluene	17.51	119	559614	33.83	ug/L	99
96)	1,4-Dichlorobenzene	17.83	146	434123	37.11	ug/L	99
97)	tert-Butylbenzene	17.35	91	118153	33.54	ug/L	97
98)	n-Butylbenzene	18.11	91	526445	32.87	ug/L	99
99)	1,2-Dichlorobenzene	18.41	146	373362	35.03	ug/L	97
100)	1,2,4-Trimethylbenzene	17.13	105	665705	33.76	ug/L	96
101)	Hexachloroethane	18.73	119	126626	32.31	uL/L	97
102)	1,2-Dibromo-3-Chloropropan	19.56	75	20038	20.04	ug/L	94
103)	1,2,4-Trichlorobenzene	20.78	180	85493	14.74	ug/L	95
104)	Hexachlorobutadiene	20.86	225	68545	27.35	ug/L	97
105)	Naphthalene	21.24	128	144954	17.50	ug/L	99
106)	1,2,3-Trichlorobenzene	21.65	180	36257	10.46	ug/L	98
108)	TPH-GRO (C6-C10)	12.34	TIC	80162403m	2496.93	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020655.D VF3547AP9G.M Mon Oct 12 11:54:10 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3596\F020655.D Vial: 3
Acq On : 9 Oct 2009 11:52 am Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7097,vf3596,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:53 2009 Quant Results File: VF3547AP9G.RES

Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 6978, 6979, 6984
Batch ID: VF3547-3549

Date: 9/14/09 - 9/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB MV3797, 3799
B	Internal Standard MV3797
C	8260 Standard MV3796, 3791, 3792, 3800
D	8260 BS/MS/MSD MV3789, 3795, 3796, 3789
E	Surrogate Standard MV3799
F	GRO Marker
G	GRO Standard N/A
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC3547
Calibration Date: 9/14/09

Solvent ID #: RV090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F019677	Blk	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	cleanup Blk	AK
A	78	BFB										Autofind/	
BC	79	CC3504-20										10µ/50ml *	
1	80	↓ -40										20µ/50ml *	
A	81	BFB										Autofind/11:58	
BEBC	82	IC3547-1										1µ/100ml	
* 9/14	83	-2										2µ/100ml	
	84	-5										5µ/100ml	
	85	-20										10µ/50ml	
	86	-40										20µ/50ml	
	87	-100										50µ/50ml	
	88	-200										100µ/50ml	
BE	89	Blk										cleanup Blk	
BDE	90	ICV3547-40										25µ/50ml	
BE	91	Blk										cleanup Blk	
BDE	92	BS										12.5µ/40ml	
BE	93	Blk										cleanup Blk	
	94	MB											
	95	T36882-3				<2		1K	6				
BDE	96	1 -3MS				↓	16	1	7			12.5µ/40ml	

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

* New ICAL run as both ccal's failed.

ACCUTEST.

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg#1
Batch ID:

Date: 9/14/09 - 9/15/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg#1

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:

See pg#1

Solvent ID #:

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BDE	F019697	T36882-3msd	5ml	8260	W	<2	~~9~~ 16	1X	7	N/A			AW
BE	98	Blk				N/A	17	N/A	N/A			cleanup Blk	
	99	T36882-4				<2	18	5X	7			10ml/50ml	
	700	-2					19	500X	7			100 µl/50 ml	
	01	-5					20	↓	7				
	02	Blk				N/A	21	N/A	N/A			cleanup Blk	
	03	T37033-1				<2	22		1				
BDE	04	-1MS					23		2			12.5 µl/40 ml	
	05	-1MSd					1		2				
BE	06	Blk				N/A	24	N/A	N/A			cleanup Blk	
	07	T37034-1				<2	25	1X	1				
	08	T37032-1					26	~~5X~~ 10X	2			~~10ml~~ 5 ml/50ml AW 9/14/09	
	09	T37246-1					27	1X	4				
	10	T37248-1					28	1	4				
	11	Blk				N/A	29	N/A	N/A				
A	12	BFB					30					Autofind / 15:32	
BE	13	CC3547-40					31					20 µl/50 ml	
BDE	14	BS					32					12.5 µl/40 ml	
BE	15	Blk					33					cleanup Blk	
	16	MB					34						

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

P.2

Form: MS015

6.7.1 6

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg#1
Batch ID:

Date: 9/14/09 - 9/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg#1

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:

See pg#1

Solvent ID #:

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F0197 17	T37375-1	5ml	8260	W	<2	35	1x	1	N/A			AL
	18	-3					36		3				
	19	-5					37		5				
	20	T37007-1					38		6				
BDE	21	-1MS					39		7			12.5 ml/40 ml	
	22	-1MSD					39		7			↓	
BE	23	Blk				N/A	40	N/A	N/A			clean up Blk	
	24	T37007-2				<2	41	1x	6				
	25	T36917-1					42	1	5				
	26	T37007-3					43	5x	6			10 ml/50 ml Pu	
	27	Blk				N/A	44	N/A	N/A			clean up Blk	

AL
9/14/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

P.3

Form: MS015

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 6978, 6979, 6984
Batch ID: VF3547-3549

Date: 9/14/09 - 9/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB MV3797, 3799
B	Internal Standard MV3797
C	8260 Standard MV3796, 3791, 3792, 3800
D	8260 BS/MS/MSD MV3789, 3795, 3796, 3789
E	Surrogate Standard MV3799
F	GRO Marker
G	GRO Standard N/A
H	GRO LCS

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC3547
Calibration Date: 9/14/09

Solvent ID #: RV090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F019677	Blk	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	cleanup blk	AK
A	78	BFB										Auto find/	
BC	79	CC3504-20										10µ/50ml *	
	80	↓ -40										20µ/50ml *	
A	81	BFB										Auto-find/11:58	
BEDK	82	IC3547-1										1µ/100ml	
	* 9/14 83	-2										2µ/100ml	
	84	-5										5µ/100ml	
	85	-20										10µ/50ml	
	86	-40										20µ/50ml	
	87	-100										50µ/50ml	
	88	-200										100µ/50ml	
BE	89	Blk										cleanup Blk	
BDE	90	ICV3547-40										25µ/50ml	
BE	91	Blk										cleanup Blk	
BDE	92	BS										12.5µ/40ml	
BE	93	Blk										cleanup Blk	
	94	MB											
	95	T36882-3				<2		1K	6				
BDE	96	1 -3MS				↓	16	1	7			12.5µ/40ml	

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

* New ICAL. Run as both one's tested.

ACCUTEST Laboratories T39423

ACCUTEST.

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg#1
Batch ID:

Date: 9/14/09 - 9/15/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg#1

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
Solvent ID #:
Solvent: Methanol

See pg#1

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BDE	F019697	T36882-3msd	5ml	8260	W	<2	~~8~~ 16	1X	7	N/A			AW
BE	98	Blk				N/A	17	N/A	N/A			cleanup Blk	
	99	T36882-4				<2	18	5X	7			10ml/50ml	
	700	-2					19	500X	7			100 µl/50 ml	
	01	-5					20	↓	7				
	02	Blk				N/A	21	N/A	N/A			Cleanup Blk	
	03	T37033-1				<2	22		1				
BDE	04	-1MS					23		2			12.5 µl/40ml	
	05	-1MSd							2				
BE	06	Blk				N/A	24	N/A	N/A			cleanup Blk	
	07	T37034-1				<2	25	1X	1				
	08	T37032-1					26	~~5X~~ 10X	~~N~~ 2			~~10ml~~ 5 ml/50ml AW 9/14/09	
	09	T37246-1					27	1X	4				
	10	T37248-1					28	1	4				
	11	Blk				N/A	29	N/A	N/A				
A	12	BFB					30					Autofind / 15:32	
BE	13	CC3547-40					31					20 µl/50ml AW	
BDE	14	BS					32					12.5 µl/40ml	
BE	15	Blk					33					cleanup Blk	
	16	MB					34						

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

P.2

Form: MS015

ACCUTEST.

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg#1
Batch ID:

Date: 9/14/09 - 9/15/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg#1

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
Solvent ID #: See pg#1
Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BE	F0197/7	T37375-1	5ml	8260	W	<2	35	1X	1	N/A			AL
	18	-3					36		3				
	19	-5					37		5				
	20	T37007-1					38		6				
BDE	21	-1MS					39		7			12.5 ml/40ml	
	22	-1MSD					39		7			↓	
BE	23	Blk				N/A	40	N/A	N/A			clean up Blk	
	24	T37007-2				<2	41	1X	6				
	25	T36917-1					42		5				
	26	T37007-3					43	5X	6			10ml/50ml FV	
	27	Blk				N/A	44	N/A	N/A			clean up Blk	

AL
9/14/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

P.3

Form: MS015

6.7.2 6

ACCUTEST

GC/MS VOLATILE ANALYSIS LOG

Batch MS: 7099
Batch ID: VF3596

Date: 10/9/09 - 10/10/09

Analyst Signature: [signature]

Standard Data

Ref #	Description
A	BFB MV3825
B	Internal Standard 3851
C	8260 Standard 3864, 3855, 3862, 3863
D	8260 BS/MS/MSD 3855, 3866, 3857, 3864
E	Surrogate Standard 3852
F	GRO Marker N/A
G	GRO Standard N/A
H	GRO LCS N/A

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method IC3547
Calibration Date: 9/14/09

Solvent ID #: RV090720

Solvent: Methanol

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
A	F020653	BFB	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	40 µl/40ml/ Avg SE	[illegible]
BC	54	CC3547-20										10 µl/50ml/ High Rec for Benzene	
	55	↓ -40										20 µl/50ml FV	
BDE	56	BS										12.5 µl/40ml	
BE	57	Blk										cleanup Blk	
	58	MB											
	59	T39314-7				<2		K	1				
	60	T39423-8							1				
	61	T39314-2							7				
BDE	62	-2MS							10			12.5 µl/40ml	
	63	-2MSd							↓			↓	
	64	Blk				N/A		N/A	N/A			cleanup Blk	
	65	T39314-1				<2		K	4				
	66	3							4				
	67	4							4				
	68	5							4				
	69	6							4				
	70	T39423-1							6				
	71	-2							6				
	72	-3					19		6				

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

1.66

Form: MS015

ACCUTEST.

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg # 66
Batch ID:

Date: 10/9/09 – 10/10/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB
B	Internal Standard
C	8260 Standard
D	8260 BS/MS/MSD
E	Surrogate Standard
F	GRO Marker
G	GRO Standard
H	GRO LCS

See pg # 66

Columns: Rtx-624
SW-846/EPA Method: 8260B/624
Initial Cal. Method
Calibration Date:
Solvent ID #:
Solvent: Methanol

See pg # 66

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	Sample ID	Sample Amount	Method	MTX	PH	ALS #	Dil.	Vial #	Med. Lvl	Run OK	Comments	Init.
BFB	F020673	T39423-4	5ml	8260	W	<2	20	1x	6	N/A	Y		AW
	74	-5							6				
	75	-6							6				
	76	-7							6				
	77	Blk				N/A		N/A	N/A			cleanup Blk	
	78						25						

AW 10/9/09

MTX = Matrix Designate W for water, S for soil, O for oil, and TCLP or SPLP for leachates. Sample Amount = Volume (ML) or Weight (g)

Form: MS015

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13230-MB	J13786.D	1	10/13/09	SC	10/09/09	OP13230	EJ633

The QC reported here applies to the following samples: **Method:** SW846 8270C

T39423-1, T39423-2, T39423-3, T39423-4, T39423-5, T39423-6, T39423-7

CAS No.	Compound	Result	RL	MDL	Units	Q
108-98-5	Benzenethiol	ND	10	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.83	ug/l	
	3&4-Methylphenol	ND	5.0	1.6	ug/l	
108-95-2	Phenol	ND	5.0	0.75	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	46%	10-66%
4165-62-2	Phenol-d5	11%	10-53%
118-79-6	2,4,6-Tribromophenol	67%	32-128%
4165-60-0	Nitrobenzene-d5	72%	29-115%
321-60-8	2-Fluorobiphenyl	62%	34-113%
1718-51-0	Terphenyl-d14	65%	12-145%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	4.60	15	ug/l	JN
74367-33-2	Propanoic acid, 2-methyl-, 2,2-dim	7.12	25	ug/l	JN
	Total TIC, Semi-Volatile		40	ug/l	J

Method Blank Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13270-MB	H35520.D	1	10/21/09	SC	10/09/09	OP13270	EH1918

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

T39423-1, T39423-2, T39423-3, T39423-4, T39423-5, T39423-6, T39423-7

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.20	0.042	ug/l	
208-96-8	Acenaphthylene	ND	0.20	0.072	ug/l	
120-12-7	Anthracene	ND	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	0.041	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	0.064	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.060	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.056	ug/l	
218-01-9	Chrysene	ND	0.20	0.044	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.060	ug/l	
206-44-0	Fluoranthene	ND	0.20	0.046	ug/l	
86-73-7	Fluorene	ND	0.20	0.064	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	0.061	ug/l	
91-20-3	Naphthalene	ND	0.20	0.075	ug/l	
85-01-8	Phenanthrene	ND	0.20	0.075	ug/l	
129-00-0	Pyrene	ND	0.20	0.079	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	96% [a]	17-131%
321-60-8	2-Fluorobiphenyl	1200% [a]	15-137%
1718-51-0	Terphenyl-d14	111% [a]	10-160%

(a) Recoveries were adjusted for 10x spiking.

Blank Spike/Blank Spike Duplicate Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13230-BS	J13791.D	1	10/13/09	SC	10/09/09	OP13230	EJ633
OP13230-BSD	J13792.D	1	10/13/09	SC	10/09/09	OP13230	EJ633

The QC reported here applies to the following samples: **Method:** SW846 8270C

T39423-1, T39423-2, T39423-3, T39423-4, T39423-5, T39423-6, T39423-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-98-5	Benzenethiol	50	9.7	19	8.7	17	11	10-98/30
105-67-9	2,4-Dimethylphenol	50	23.3	47	23.1	46	1	27-87/30
95-48-7	2-Methylphenol	50	29.1	58	29.5	59	1	25-84/30
	3&4-Methylphenol	100	55.5	56	56.9	57	2	25-77/30
108-95-2	Phenol	50	15.7	31	16.0	32	2	10-53/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	44%	44%	10-66%
4165-62-2	Phenol-d5	29%	30%	10-53%
118-79-6	2,4,6-Tribromophenol	88%	87%	32-128%
4165-60-0	Nitrobenzene-d5	71%	71%	29-115%
321-60-8	2-Fluorobiphenyl	77%	76%	34-113%
1718-51-0	Terphenyl-d14	87%	94%	12-145%

Blank Spike/Blank Spike Duplicate Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13270-BS [a]	H35521.D	1	10/21/09	SC	10/09/09	OP13270	EH1918
OP13270-BSD [a]	H35522.D	1	10/21/09	SC	10/09/09	OP13270	EH1918

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

T39423-1, T39423-2, T39423-3, T39423-4, T39423-5, T39423-6, T39423-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	5	3.7	74	3.6	72	3	10-125/30
208-96-8	Acenaphthylene	5	3.3	66	3.2	64	3	10-141/30
120-12-7	Anthracene	5	3.7	74	3.8	76	3	13-139/30
56-55-3	Benzo(a)anthracene	5	3.7	74	3.6	72	3	24-151/30
50-32-8	Benzo(a)pyrene	5	3.0	60	3.1	62	3	36-146/30
205-99-2	Benzo(b)fluoranthene	5	3.9	78	4.2	84	7	27-159/30
207-08-9	Benzo(k)fluoranthene	5	4.4	88	4.1	82	7	26-157/30
218-01-9	Chrysene	5	3.7	74	3.6	72	3	26-146/30
53-70-3	Dibenzo(a,h)anthracene	5	3.6	72	3.0	60	18	23-161/30
206-44-0	Fluoranthene	5	3.8	76	4.0	80	5	20-140/30
86-73-7	Fluorene	5	4.4	88	4.3	86	2	16-126/30
193-39-5	Indeno(1,2,3-cd)pyrene	5	3.6	72	3.3	66	9	25-153/30
91-20-3	Naphthalene	5	2.8	56	3.0	60	7	11-111/30
85-01-8	Phenanthrene	5	3.7	74	3.7	74	0	23-135/30
129-00-0	Pyrene	5	3.0	60	2.8	56	7	27-138/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	71%	68%	17-131%
321-60-8	2-Fluorobiphenyl	84%	81%	15-137%
1718-51-0	Terphenyl-d14	82%	76%	10-160%

(a) Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13230-MS	J13803.D	1	10/13/09	SC	10/09/09	OP13230	EJ633
OP13230-MSD	J13804.D	1	10/13/09	SC	10/09/09	OP13230	EJ633
T39513-1	J13795.D	1	10/13/09	SC	10/09/09	OP13230	EJ633

The QC reported here applies to the following samples: **Method:** SW846 8270C

T39423-1, T39423-2, T39423-3, T39423-4, T39423-5, T39423-6, T39423-7

CAS No.	Compound	T39513-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-98-5	Benzenethiol	10 U			ND	0* [a]	ND	0* [b]	nc	10-98/36
105-67-9	2,4-Dimethylphenol	5.0 U		100	74.7	75	86.2	86	14	27-87/26
95-48-7	2-Methylphenol	5.0 U		100	67.4	67	79.3	79	16	25-84/31
	3&4-Methylphenol	5.0 U		200	142	71	167	84*	16	25-77/25
108-95-2	Phenol	5.0 U		100	56.1	56*	65.0	65*	15	10-53/35

CAS No.	Surrogate Recoveries	MS	MSD	T39513-1	Limits
367-12-4	2-Fluorophenol	58%	67%*	28%	10-66%
4165-62-2	Phenol-d5	52%	61%*	26%	10-53%
118-79-6	2,4,6-Tribromophenol	77%	86%	76%	32-128%
4165-60-0	Nitrobenzene-d5	67%	77%	40%	29-115%
321-60-8	2-Fluorobiphenyl	63%	71%	36%	34-113%
1718-51-0	Terphenyl-d14	83%	100%	86%	12-145%

(a) Compounds was not spiked in this ms sample.
(b) Compounds was not spiked in this msd sample.

Instrument Performance Check (DFTPP)

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1918-DFTPP
Lab File ID: H35512.D
Instrument ID: GCMSH
Injection Date: 10/21/09
Injection Time: 10:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	27424	43.7		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	42760	68.1		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	34749	55.3		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	62797	100.0		Pass
199	5.0 - 9.0% of mass 198	4472	7.1		Pass
275	10.0 - 30.0% of mass 198	10382	16.5		Pass
365	1.0 - 100.0% of mass 198	872	1.4		Pass
441	Present, but less than mass 443	4082	6.5	(79.6) [b]	Pass
442	40.0 - 100.0% of mass 198	25149	40.0		Pass
443	17.0 - 23.0% of mass 442	5127	8.2	(20.4) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EH1918-ICC1918	H35513.D	10/21/09	11:02	00:14	Initial cal 2.5
EH1918-IC1918	H35514.D	10/21/09	11:31	00:43	Initial cal 1
EH1918-IC1918	H35515.D	10/21/09	12:01	01:13	Initial cal 0.1
EH1918-IC1918	H35516.D	10/21/09	12:32	01:44	Initial cal 0.2
EH1918-IC1918	H35517.D	10/21/09	12:58	02:10	Initial cal 5
EH1918-IC1918	H35518.D	10/21/09	13:29	02:41	Initial cal 10
EH1918-ICV1918	H35519.D	10/21/09	13:57	03:09	Initial cal verification 2.5
OP13270-MB	H35520.D	10/21/09	14:31	03:43	Method Blank
OP13270-BS	H35521.D	10/21/09	14:54	04:06	Blank Spike
OP13270-BSD	H35522.D	10/21/09	15:25	04:37	Blank Spike Duplicate
ZZZZZZ	H35523.D	10/21/09	15:54	05:06	(unrelated sample)
ZZZZZZ	H35524.D	10/21/09	16:23	05:35	(unrelated sample)
ZZZZZZ	H35525.D	10/21/09	16:55	06:07	(unrelated sample)
ZZZZZZ	H35526.D	10/21/09	17:20	06:32	(unrelated sample)
ZZZZZZ	H35527.D	10/21/09	17:51	07:03	(unrelated sample)
ZZZZZZ	H35528.D	10/21/09	18:14	07:26	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1919-DFTPP
Lab File ID: H35543.D
Instrument ID: GCMSH
Injection Date: 10/22/09
Injection Time: 11:03

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	27870	38.5		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	43827	60.5		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	38197	52.7		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	72445	100.0		Pass
199	5.0 - 9.0% of mass 198	5433	7.5		Pass
275	10.0 - 30.0% of mass 198	12215	16.9		Pass
365	1.0 - 100.0% of mass 198	1283	1.8		Pass
441	Present, but less than mass 443	5444	7.5	(88.3) [b]	Pass
442	40.0 - 100.0% of mass 198	33280	45.9		Pass
443	17.0 - 23.0% of mass 442	6166	8.5	(18.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EH1919-IC1919	H35545.D	10/22/09	12:02	00:59	Initial cal 1
EH1919-IC1919	H35546.D	10/22/09	12:27	01:24	Initial cal 0.1
EH1919-IC1919	H35547.D	10/22/09	12:54	01:51	Initial cal 0.2
EH1919-IC1919	H35548.D	10/22/09	13:24	02:21	Initial cal 10
EH1919-IC1919	H35549.D	10/22/09	13:50	02:47	Initial cal 5
EH1919-ICC1919	H35550.D	10/22/09	14:54	03:51	Initial cal 2.5
EH1919-ICV1919	H35551.D	10/22/09	15:18	04:15	Initial cal verification 2.5
OP13271-MB	H35552.D	10/22/09	15:49	04:46	Method Blank
OP13271-BS	H35553.D	10/22/09	16:19	05:16	Blank Spike
OP13271-BSD	H35554.D	10/22/09	16:48	05:45	Blank Spike Duplicate
T39423-1	H35555.D	10/22/09	17:13	06:10	MW11:1009
T39423-2	H35556.D	10/22/09	17:42	06:39	MW26:1009
T39423-3	H35557.D	10/22/09	18:11	07:08	MW16:1009
T39423-4	H35558.D	10/22/09	18:40	07:37	MW36:1009
T39423-5	H35559.D	10/22/09	19:09	08:06	PZ6 :1009
T39423-6	H35560.D	10/22/09	19:34	08:31	PZ5 :1009
T39423-7	H35561.D	10/22/09	20:03	09:00	PZ4 :1009
ZZZZZZ	H35562.D	10/22/09	20:32	09:29	(unrelated sample)
ZZZZZZ	H35563.D	10/22/09	21:01	09:58	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1919-DFTPP
Lab File ID: H35543.D
Instrument ID: GCMSH
Injection Date: 10/22/09
Injection Time: 11:03

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	H35564.D	10/22/09	21:30	10:27	(unrelated sample)
ZZZZZZ	H35566.D	10/22/09	22:27	11:24	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ615-DFTPP
Lab File ID: J13332.D
Instrument ID: GCMSJ
Injection Date: 09/23/09
Injection Time: 10:37

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	273877	40.7		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	279189	41.5		Pass
70	Less than 2.0% of mass 69	1498	0.22	(0.54) [a]	Pass
127	40.0 - 60.0% of mass 198	316309	47.0		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	672661	100.0		Pass
199	5.0 - 9.0% of mass 198	45149	6.7		Pass
275	10.0 - 30.0% of mass 198	190080	28.3		Pass
365	1.0 - 100.0% of mass 198	27997	4.2		Pass
441	Present, but less than mass 443	92136	13.7	(81.4) [b]	Pass
442	40.0 - 100.0% of mass 198	588053	87.4		Pass
443	17.0 - 23.0% of mass 442	113253	16.8	(19.3) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EJ615-IC615	J13335.D	09/23/09	11:52	01:15	Initial cal 5
EJ615-IC615	J13336.D	09/23/09	12:23	01:46	Initial cal 10
EJ615-IC615	J13337.D	09/23/09	12:53	02:16	Initial cal 25
EJ615-IC615	J13338.D	09/23/09	13:22	02:45	Initial cal 100
EJ615-IC615	J13339.D	09/23/09	13:52	03:15	Initial cal 125
EJ615-ICC615	J13340.D	09/23/09	14:21	03:44	Initial cal 50
EJ615-IC615	J13341.D	09/23/09	14:51	04:14	Initial cal 75
EJ615-ICV615	J13342.D	09/23/09	15:21	04:44	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ629-DFTPP
Lab File ID: J13687.D
Instrument ID: GCMSJ
Injection Date: 10/08/09
Injection Time: 10:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	135432	47.0		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	130341	45.2		Pass
70	Less than 2.0% of mass 69	563	0.2	(0.43) [a]	Pass
127	40.0 - 60.0% of mass 198	144448	50.1		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	288299	100.0		Pass
199	5.0 - 9.0% of mass 198	19921	6.9		Pass
275	10.0 - 30.0% of mass 198	84237	29.2		Pass
365	1.0 - 100.0% of mass 198	14155	4.9		Pass
441	Present, but less than mass 443	42573	14.8	(83.7) [b]	Pass
442	40.0 - 100.0% of mass 198	266517	92.4		Pass
443	17.0 - 23.0% of mass 442	50891	17.7	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EJ629-CC615	J13688.D	10/08/09	10:50	00:16	Continuing cal 50
EJ629-ICC629	J13689.D	10/08/09	11:20	00:46	Initial cal 50
EJ629-IC629	J13690.D	10/08/09	11:50	01:16	Initial cal 40
EJ629-IC629	J13691.D	10/08/09	12:21	01:47	Initial cal 75
EJ629-IC629	J13692.D	10/08/09	12:51	02:17	Initial cal 5
EJ629-IC629	J13693.D	10/08/09	13:22	02:48	Initial cal 25
EJ629-IC629	J13694.D	10/08/09	13:52	03:18	Initial cal 100
EJ629-ICV629	J13695.D	10/08/09	14:26	03:52	Initial cal verification 50
OP13205-MB	J13696.D	10/08/09	14:56	04:22	Method Blank
OP13205-BS	J13700.D	10/08/09	17:27	06:53	Blank Spike
OP13205-BSD	J13701.D	10/08/09	17:59	07:25	Blank Spike Duplicate

Instrument Performance Check (DFTPP)

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ632-DFTPP
Lab File ID: J13755.D
Instrument ID: GCMSJ
Injection Date: 10/12/09
Injection Time: 16:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	129509	47.5		Pass
68	Less than 2.0% of mass 69	1260	0.46	(0.99) [a]	Pass
69	Mass 69 relative abundance	127701	46.8		Pass
70	Less than 2.0% of mass 69	626	0.23	(0.49) [a]	Pass
127	40.0 - 60.0% of mass 198	139147	51.0		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	272725	100.0		Pass
199	5.0 - 9.0% of mass 198	18252	6.7		Pass
275	10.0 - 30.0% of mass 198	77835	28.5		Pass
365	1.0 - 100.0% of mass 198	13006	4.8		Pass
441	Present, but less than mass 443	38992	14.3	(82.5) [b]	Pass
442	40.0 - 100.0% of mass 198	246144	90.3		Pass
443	17.0 - 23.0% of mass 442	47248	17.3	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EJ632-CC615	J13756.D	10/12/09	16:42	00:13	Continuing cal 50
EJ632-CC629	J13757.D	10/12/09	17:12	00:43	Continuing cal 50
OP13232-BS	J13759.D	10/12/09	18:15	01:46	Blank Spike
OP13232-MB	J13760.D	10/12/09	18:44	02:15	Method Blank
ZZZZZZ	J13761.D	10/12/09	19:13	02:44	(unrelated sample)
OP13232-MS	J13763.D	10/12/09	20:13	03:44	Matrix Spike
OP13232-MSD	J13764.D	10/12/09	20:42	04:13	Matrix Spike Duplicate
T39423-1	J13765.D	10/12/09	21:11	04:42	MW11:1009
T39423-2	J13766.D	10/12/09	21:40	05:11	MW26:1009
T39423-3	J13767.D	10/12/09	22:09	05:40	MW16:1009
T39423-4	J13768.D	10/12/09	22:38	06:09	MW36:1009
T39423-5	J13769.D	10/12/09	23:07	06:38	PZ6 :1009
T39423-6	J13770.D	10/12/09	23:37	07:08	PZ5 :1009
T39423-7	J13771.D	10/13/09	00:06	07:37	PZ4 :1009
ZZZZZZ	J13772.D	10/13/09	00:35	08:06	(unrelated sample)
ZZZZZZ	J13773.D	10/13/09	01:04	08:35	(unrelated sample)
ZZZZZZ	J13774.D	10/13/09	01:33	09:04	(unrelated sample)
ZZZZZZ	J13775.D	10/13/09	02:02	09:33	(unrelated sample)
ZZZZZZ	J13776.D	10/13/09	02:31	10:02	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ632-DFTPP
Lab File ID: J13755.D
Instrument ID: GCMSJ
Injection Date: 10/12/09
Injection Time: 16:29

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
T39315-1	J13777.D	10/13/09	03:00	10:31	(used for QC only; not part of job T39423)
ZZZZZZ	J13778.D	10/13/09	03:30	11:01	(unrelated sample)
ZZZZZZ	J13779.D	10/13/09	03:58	11:29	(unrelated sample)
ZZZZZZ	J13780.D	10/13/09	04:27	11:58	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ633-DFTPP
Lab File ID: J13783.D
Instrument ID: GCMSJ
Injection Date: 10/13/09
Injection Time: 10:48

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	246976	37.4		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	253013	38.3		Pass
70	Less than 2.0% of mass 69	1327	0.2	(0.52) [a]	Pass
127	40.0 - 60.0% of mass 198	303659	46.0		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	660139	100.0		Pass
199	5.0 - 9.0% of mass 198	44592	6.8		Pass
275	10.0 - 30.0% of mass 198	189269	28.7		Pass
365	1.0 - 100.0% of mass 198	26997	4.1		Pass
441	Present, but less than mass 443	90485	13.7	(79.2) [b]	Pass
442	40.0 - 100.0% of mass 198	594219	90.0		Pass
443	17.0 - 23.0% of mass 442	114219	17.3	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EJ633-CC615	J13784.D	10/13/09	11:00	00:12	Continuing cal 75
OP13230-MB	J13786.D	10/13/09	11:59	01:11	Method Blank
OP13100-MS	J13787.D	10/13/09	12:28	01:40	Matrix Spike
OP13100-MSD	J13788.D	10/13/09	12:58	02:10	Matrix Spike Duplicate
OP13230-BS	J13791.D	10/13/09	14:25	03:37	Blank Spike
OP13230-BSD	J13792.D	10/13/09	14:55	04:07	Blank Spike Duplicate
ZZZZZZ	J13793.D	10/13/09	15:24	04:36	(unrelated sample)
T39513-1	J13795.D	10/13/09	16:23	05:35	(used for QC only; not part of job T39423)
ZZZZZZ	J13796.D	10/13/09	16:53	06:05	(unrelated sample)
ZZZZZZ	J13797.D	10/13/09	17:23	06:35	(unrelated sample)
ZZZZZZ	J13798.D	10/13/09	17:52	07:04	(unrelated sample)
ZZZZZZ	J13799.D	10/13/09	18:21	07:33	(unrelated sample)
ZZZZZZ	J13800.D	10/13/09	18:50	08:02	(unrelated sample)
ZZZZZZ	J13801.D	10/13/09	19:20	08:32	(unrelated sample)
OP13230-MS	J13803.D	10/13/09	20:19	09:31	Matrix Spike
OP13230-MSD	J13804.D	10/13/09	20:49	10:01	Matrix Spike Duplicate
ZZZZZZ	J13805.D	10/13/09	21:18	10:30	(unrelated sample)
ZZZZZZ	J13806.D	10/13/09	21:48	11:00	(unrelated sample)
ZZZZZZ	J13807.D	10/13/09	22:17	11:29	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ633-DFTPP
Lab File ID: J13783.D
Instrument ID: GCMSJ
Injection Date: 10/13/09
Injection Time: 10:48

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	J13808.D	10/13/09	22:46	11:58	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std: EH1918-ICC1918 **Injection Date:** 10/21/09
Lab File ID: H35513.D **Injection Time:** 11:02
Instrument ID: GCMSH **Method:** SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	74952	5.65	71607	7.56	63482	9.57	78072	11.09	38772	13.89	6173	16.35
Upper Limit [a]	149904	6.15	143214	8.06	126964	10.07	156144	11.59	77544	14.39	12346	16.85
Lower Limit [b]	37476	5.15	35804	7.06	31741	9.07	39036	10.59	19386	13.39	3087	15.85

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP13270-MB	69791	5.65	64084	7.56	39063	9.57	59399	11.09	35168	13.89	7436	16.35
OP13270-BS [c]	79921	5.65	84780	7.56	42809	9.57	78803	11.09	43314	13.89	7925	16.35
OP13270-BSD [c]	80116	5.65	78986	7.56	44110	9.57	74813	11.09	46659	13.88	9333	16.35
ZZZZZZ	71622	5.65	63559	7.56	35610	9.57	65426	11.09	33990	13.88	6313	16.35
ZZZZZZ	86994	5.65	77445	7.56	47381	9.57	75488	11.09	31271	13.88	4505	16.37
ZZZZZZ	89975	5.65	92876	7.56	41661	9.57	92673	11.09	40270	13.88	7494	16.35
ZZZZZZ	80316	5.65	81679	7.56	49031	9.57	73911	11.09	43847	13.89	8494	16.35
ZZZZZZ	66487	5.65	57241	7.56	34820	9.57	61393	11.09	23898	13.90	5725	16.37
ZZZZZZ	65206	5.65	69226	7.56	40925	9.57	65060	11.09	32132	13.89	6581	16.35

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.

Semivolatile Internal Standard Area Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	EH1919-ICC1919	**Injection Date:**	10/22/09
Lab File ID:	H35550.D	**Injection Time:**	14:54
Instrument ID:	GCMSH	**Method:**	SW846 8270C BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	71352	5.66	45874	7.57	47140	9.57	61620	11.09	12651	13.90	6928	16.36
Upper Limit [a]	142704	6.16	91748	8.07	94280	10.07	123240	11.59	25302	14.40	13856	16.86
Lower Limit [b]	35676	5.16	22937	7.07	23570	9.07	30810	10.59	6326	13.40	3464	15.86

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP13271-MB	70527	5.66	45925	7.57	38404	9.57	59137	11.09	11146	13.90	3749	16.38
OP13271-BS [c]	103126	5.66	61058	7.57	64984	9.57	89100	11.09	16484	13.90	6746	16.37
OP13271-BSD [c]	105421	5.66	66786	7.54	67957	9.57	91380	11.09	22443	13.90	8757	16.37
T39423-1	71062	5.66	53929	7.57	50423	9.57	70217	11.09	16097	13.90	5259	16.37
T39423-2	79912	5.66	51932	7.57	49237	9.57	74538	11.09	15029	13.90	5782	16.37
T39423-3	84833	5.66	57510	7.57	53957	9.57	74148	11.09	13890	13.90	6081	16.37
T39423-4	92182	5.66	65406	7.57	71113	9.57	81737	11.09	16483	13.90	5496	16.37
T39423-5	107513	5.66	70740	7.57	76858	9.57	89776	11.09	13355	13.90	5552	16.37
T39423-6	96900	5.66	62318	7.57	68350	9.57	82190	11.09	14360	13.90	6150	16.37
T39423-7	94178	5.63	56938	7.57	63710	9.57	71374	11.09	13876	13.90	5750	16.37
ZZZZZZ	78869	5.63	66787	7.54	67764	9.57	83833	11.09	16087	13.90	5085	16.35
ZZZZZZ	93386	5.63	70576	7.54	62797	9.57	98328	11.09	15358	13.90	5142	16.37
ZZZZZZ	89791	5.63	61777	7.54	69059	9.57	88852	11.09	11961	13.90	4468	16.38
ZZZZZZ	73649	5.66	64258	7.57	41911	9.57	73966	11.09	15469	13.90	4929	16.37

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.

Semivolatile Internal Standard Area Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std: EJ632-CC615 **Injection Date:** 10/12/09
Lab File ID: J13756.D **Injection Time:** 16:42
Instrument ID: GCMSJ **Method:** SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	602641	4.73	2106069	5.95	1177016	8.42	1548225	11.20	1265663	16.74	641250	19.53
Upper Limit [a]	1205282	5.23	4212138	6.45	2354032	8.92	3096450	11.70	2531326	17.24	1282500	20.03
Lower Limit [b]	301321	4.23	1053035	5.45	588508	7.92	774113	10.70	632832	16.24	320625	19.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP13232-BS	1031621	4.73	3580798	5.94	1781179	8.41	2122138	11.19	1258997	16.72	597539	19.52
OP13232-MB	861383	4.72	2870942	5.93	1407850	8.40	1425673	11.18	585939*	16.71	332102	19.52
ZZZZZZ	724779	4.72	2511639	5.93	1324675	8.40	1581205	11.19	961513	16.72	578860	19.53
OP13232-MS	790668	4.73	2794625	5.94	1452992	8.41	1686378	11.19	944145	16.72	539182	19.52
OP13232-MSD	609087	4.72	2173947	5.93	1172380	8.41	1426144	11.19	1063370	16.72	581669	19.51
T39423-1	1171437	4.72	4033812	5.93	2074814	8.40	2301136	11.19	1197014	16.71	793537	19.51
T39423-2	720934	4.72	2611846	5.93	1498177	8.40	2057668	11.18	1205175	16.71	502471	19.51
T39423-3	824738	4.72	2871512	5.93	1478178	8.40	1657861	11.18	880770	16.70	551291	19.51
T39423-4	844557	4.72	2943084	5.93	1504162	8.40	1603093	11.18	754409	16.70	500570	19.51
T39423-5	664553	4.72	2308911	5.92	1185315	8.40	1350957	11.18	772211	16.70	476668	19.51
T39423-6	715537	4.72	2498396	5.93	1273638	8.40	1380530	11.18	746594	16.70	458272	19.51
T39423-7	723208	4.72	2517611	5.93	1294289	8.40	1509002	11.18	871816	16.70	557540	19.51
ZZZZZZ	675130	4.72	2373662	5.93	1206272	8.40	1390075	11.18	852490	16.70	552056	19.51
ZZZZZZ	592807	4.72	2072869	5.93	1063648	8.40	1190650	11.18	747217	16.70	431487	19.51
ZZZZZZ	681469	4.72	2384239	5.93	1167429	8.40	1203343	11.18	734303	16.70	479423	19.51
ZZZZZZ	576327	4.72	2063088	5.93	1134574	8.40	1597073	11.18	1096806	16.71	594407	19.51
ZZZZZZ	593814	4.72	2115498	5.93	1161558	8.40	1555306	11.18	857832	16.71	421100	19.51
T39315-1	794964	4.72	2880200	5.93	1568102	8.40	2168660	11.19	1192703	16.71	619529	19.51
ZZZZZZ	579195	4.72	2063315	5.93	1110369	8.40	1339411	11.19	960555	16.71	578412	19.52
ZZZZZZ	548874	4.72	1933434	5.93	984047	8.40	1060928	11.18	672501	16.71	414098	19.51
ZZZZZZ	620771	4.72	2166871	5.93	1141916	8.40	1331581	11.18	923627	16.71	525863	19.52

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	EJ633-CC615	**Injection Date:**	10/13/09
Lab File ID:	J13784.D	**Injection Time:**	11:00
Instrument ID:	GCMSJ	**Method:**	SW846 8270C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	555737	4.70	1893633	5.91	1102945	8.37	1593994	11.15	1794959	16.69	951436	19.48
Upper Limit [a]	1111474	5.20	3787266	6.41	2205890	8.87	3187988	11.65	3589918	17.19	1902872	19.98
Lower Limit [b]	277869	4.20	946817	5.41	551473	7.87	796997	10.65	897480	16.19	475718	18.98

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP13230-MB	578111	4.70	2116777	5.90	1236902	8.35	1909318	11.13	2091599	16.65	1671743	19.46
OP13100-MS	541057	4.70	2363899	5.91	1399114	8.37	2078159	11.15	1727810	16.66	1053630	19.46
OP13100-MSD	501845	4.70	2190434	5.91	1197729	8.37	1605679	11.14	1199641	16.66	796798	19.45
OP13230-BS	585680	4.70	2331791	5.91	1207031	8.36	1813814	11.14	1659011	16.66	933588	19.46
OP13230-BSD	546438	4.70	2211198	5.91	1170125	8.36	1851081	11.14	1596670	16.66	909364	19.46
ZZZZZZ	562401	4.70	2056280	5.90	1168457	8.35	1701146	11.13	1303209	16.65	632586	19.45
T39513-1	510815	4.70	1888815	5.90	1099992	8.36	1639293	11.13	1186039	16.65	775187	19.46
ZZZZZZ	587994	4.70	2206476	5.90	1202868	8.36	1592062	11.13	994918	16.64	674418	19.45
ZZZZZZ	509735	4.70	1973905	5.90	1098666	8.36	1643209	11.13	1397154	16.65	949939	19.46
ZZZZZZ	493610	4.70	1961240	5.91	1104127	8.36	1593351	11.14	1170862	16.65	754073	19.45
ZZZZZZ	525286	4.70	1982391	5.90	1098526	8.35	1579724	11.13	1358066	16.65	911535	19.45
ZZZZZZ	549355	4.70	2008864	5.90	1105191	8.35	1626570	11.13	1219443	16.64	712510	19.45
ZZZZZZ	480717	4.70	1743060	5.90	1015939	8.35	1579610	11.13	1576324	16.65	904989	19.45
OP13230-MS	578227	4.70	2079970	5.91	1212764	8.36	1765026	11.14	1362616	16.67	675527	19.46
OP13230-MSD	497658	4.70	1825808	5.90	1109568	8.36	1710634	11.14	1270114	16.67	631717	19.46
ZZZZZZ	588486	4.70	2181170	5.90	1226232	8.35	1821594	11.13	1270745	16.64	747958	19.45
ZZZZZZ	493180	4.70	2107840	5.93	1174526	8.36	1870164	11.14	1425202	16.65	772428	19.45
ZZZZZZ	477673	4.70	1872718	5.91	1027226	8.35	1486616	11.13	1050089	16.65	600868	19.45
ZZZZZZ	481718	4.70	1739695	5.90	959868	8.35	1336933	11.12	935199	16.64	651325	19.45

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
T39423-1	J13765.D	40.0	33.0	54.0	54.0	50.0	66.0
T39423-2	J13766.D	36.0	23.0	63.0	56.0	47.0	118.0
T39423-3	J13767.D	51.0	48.0	64.0	64.0	56.0	83.0
T39423-4	J13768.D	50.0	44.0	63.0	66.0	59.0	78.0
T39423-5	J13769.D	48.0	42.0	77.0	70.0	66.0	108.0
T39423-6	J13770.D	54.0	31.0	76.0	73.0	67.0	100.0
T39423-7	J13771.D	51.0	42.0	67.0	70.0	65.0	84.0
OP13230-BS	J13791.D	44.0	29.0	88.0	71.0	77.0	87.0
OP13230-BSD	J13792.D	44.0	30.0	87.0	71.0	76.0	94.0
OP13230-MB	J13786.D	46.0	11.0	67.0	72.0	62.0	65.0
OP13230-MS	J13803.D	58.0	52.0	77.0	67.0	63.0	83.0
OP13230-MSD	J13804.D	67.0*	61.0*	86.0	77.0	71.0	100.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-66%
S2 = Phenol-d5	10-53%
S3 = 2,4,6-Tribromophenol	32-128%
S4 = Nitrobenzene-d5	29-115%
S5 = 2-Fluorobiphenyl	34-113%
S6 = Terphenyl-d14	12-145%

Semivolatile Surrogate Recovery Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Method: SW846 8270C BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
T39423-1	H35555.D	90.0 [a]	108.0 [a]	115.0 [a]
T39423-2	H35556.D	60.0 [a]	74.0 [a]	100.0 [a]
T39423-3	H35557.D	79.0 [a]	96.0 [a]	108.0 [a]
T39423-4	H35558.D	72.0 [a]	85.0 [a]	98.0 [a]
T39423-5	H35559.D	63.0 [a]	79.0 [a]	121.0 [a]
T39423-6	H35560.D	69.0 [a]	89.0 [a]	113.0 [a]
T39423-7	H35561.D	67.0 [a]	90.0 [a]	108.0 [a]
OP13270-BS	H35521.D	71.0	84.0	82.0
OP13270-BSD	H35522.D	68.0	81.0	76.0
OP13270-MB	H35520.D	96.0 [b]	1200.0 [b]	111.0 [b]

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	17-131%
S2 = 2-Fluorobiphenyl	15-137%
S3 = Terphenyl-d14	10-160%

(a) Recovery was adjusted for 10x spiking.
(b) Recoveries were adjusted for 10x spiking.

Initial Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1918-ICC1918
Lab FileID: H35513.D

```
                         Response Factor Report  TXMSH

 Method       : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
 Title        : SIM METHOD FOR BNA
 Last Update  : Wed Oct 21 14:15:44 2009
 Response via : Initial Calibration

 Calibration Files
 0.1 =H35515.D    5   =H35517.D    1   =H35514.D    2.5 =H35513.D
 0.2 =H35516.D    10  =H35518.D        =

    Compound             0.1   5     1     2.5   0.2   10          Avg   %RSD
 ---------------------------------------------------------------------------

 1) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 2)I N-Nitrosodimethyl                                            0.000  -1.00
 3)I N-Nitroso-di-n-pr                                            0.000  -1.00

 4) I   Naphthalene-d8        ----------------ISTD---------------------
 5)S Nitrobenzene-d5   0.156 0.224 0.199 0.219 0.085 0.146       0.172  30.96
            ---- Quadratic regression ----  Coefficient =  0.9959
              Response Ratio = -0.06229 + 0.29588 *A + -0.01152 *A^2

 6)T Naphthalene       1.313 0.776 1.134 0.967 1.151 0.659       1.000  24.73
            ---- Quadratic regression ----  Coefficient =  0.9975
              Response Ratio = 0.03007 + 0.92245 *A + -0.11112 *A^2

 7)  2-Methylnaphthale 0.311 1.401 1.148 1.474 0.458 1.200       0.999  49.36
            ---- Quadratic regression ----  Coefficient =  0.9994
              Response Ratio = -0.06428 + 1.66487 *A + -0.17518 *A^2

 8)  1-Methylnaphthale 1.366 1.174 1.913 1.433 1.038 0.960       1.314  26.30
            ---- Quadratic regression ----  Coefficient =  0.9957
              Response Ratio = 0.03314 + 1.44482 *A + -0.20086 *A^2


 9) I   Acenaphthene-d10      ----------------ISTD---------------------
10)S 2-Fluorobiphenyl  2.510 3.482 2.577 2.579 2.054 2.967       2.695  17.92
            ---- Quadratic regression ----  Coefficient =  0.9928
              Response Ratio = -0.83418 + 3.65215 *A + -0.04769 *A^2

11)T Acenaphthylene    2.543 2.104 1.807 2.203 2.349 2.482       2.248  12.08
12)T Acenaphthene      2.127 2.547 2.253 2.411 1.945 2.438       2.287   9.78
13)  Dibenzofuran      2.470 1.592 2.195 1.346 2.133 1.539       1.879  23.75
            ---- Quadratic regression ----  Coefficient =  0.9962
              Response Ratio = 0.04899 + 1.48334 *A + 0.01581 *A^2

14)T Fluorene          1.073 0.958 1.145 0.869 1.250 0.981       1.046  13.21

15) I   Phenanthrene-d10      ----------------ISTD---------------------
16)S 2,4,6-Tribromophe 0.068 0.159 0.136 0.160 0.117 0.142       0.130  26.33
            ---- Quadratic regression ----  Coefficient =  0.9996
              Response Ratio = -0.04921 + 0.17858 *A + -0.00139 *A^2

17)  Pentachlorophenol                                            0.000  -1.00
18)T Phenanthrene      2.078 2.030 1.763 1.968 1.615 2.086       1.923   9.98
19)T Anthracene        2.284 1.908 1.979 2.053 1.921 1.807       1.992   8.27
20)T Fluoranthene      1.738 1.712 1.846 1.869 1.396 1.677       1.706   9.95

21) I   Chrysene-d12          ----------------ISTD---------------------
```

Initial Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1918-ICC1918
Lab FileID: H35513.D

```
22)T Pyrene            5.393 3.002 3.463 3.399 3.550 2.835       3.607  25.47
            ---- Quadratic regression ----  Coefficient =  0.9994
              Response Ratio = 0.06023 + 3.23251 *A + -0.17071 *A^2

23)S Terphenyl-d14     0.883 0.831 0.784 0.729 0.678 0.650       0.759  11.84
24)T Benzo[a]anthracen 1.215 1.386 1.438 1.294 0.961 1.495       1.298  14.89
25)T Chrysene          1.943 1.589 1.442 1.737 1.322 1.560       1.599  13.72

26) I   Perylene-d12          ----------------ISTD---------------------
27)T Benzo[b]fluoranth 0.856 1.752 0.954 1.789 0.626 2.400       1.396  49.29
            ---- Quadratic regression ----  Coefficient =  0.9984
              Response Ratio = -0.02291 + 1.28253 *A + 0.44842 *A^2

28)T Benzo[k]fluoranth 1.704 2.915 2.173 2.983 1.505 2.591       2.312  26.89
            ---- Quadratic regression ----  Coefficient =  0.9990
              Response Ratio = -0.11840 + 3.31669 *A + -0.26976 *A^2

29)T Benzo[a]pyrene    0.848 1.678 1.392 1.542 0.603 1.721       1.297  35.78
            ---- Quadratic regression ----  Coefficient =  0.9998
              Response Ratio = -0.04852 + 1.64566 *A + 0.03863 *A^2

30)T Indeno[1,2,3-cd]p 0.435 0.680 0.757 0.562 0.537 0.630       0.600  18.95
            ---- Quadratic regression ----  Coefficient =  0.9970
              Response Ratio = -0.00795 + 0.68227 *A + -0.01877 *A^2

31)T Dibenz[a,h]anthra 0.368 0.468 0.485 0.353 0.184 0.440       0.383  29.04
            ---- Quadratic regression ----  Coefficient =  0.9954
              Response Ratio = -0.01108 + 0.45630 *A + -0.00408 *A^2

32)T Benzo[g,h,i]peryl 0.465 0.563 0.720 0.493 0.426 0.472       0.523  20.35
            ---- Quadratic regression ----  Coefficient =  0.9958
              Response Ratio = -0.00368 + 0.61454 *A + -0.05592 *A^2

-------------------------------------------------------------------------------
(#) = Out of Range

          H10219SP.M        Wed Oct 21 14:38:54 2009
```

7.7.1

7

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1918-ICV1918
Lab FileID: H35519.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\EH1918\H35519.D            Vial: 8
Acq On    : 21 Oct 2009   1:57 pm                   Operator: sheilac
Sample    : icv1918-2.5                             Inst    : TXMSH
Misc      : OP12779,EH1918,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title        : SIM METHOD FOR BNA
Last Update  : Wed Oct 21 14:43:08 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	152	0.00	5.65
2	I	N-Nitrosodimethylamine		----------NA----------				
3	I	N-Nitroso-di-n-propylamin		----------NA----------				
4	I	Naphthalene-d8	1.000	1.000	0.0	183	0.00	7.56
5	S	Nitrobenzene-d5		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
6	T	Naphthalene	2.500	2.490	0.4	170	0.00	7.59
7		2-Methylnaphthalene	2.500	2.400	4.0	173	0.00	8.45
8		1-Methylnaphthalene	2.500	2.427	2.9	171	0.00	8.56
		----------	AvgRF	CCRF	%Dev		----------	
9	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00	9.57
10	S	2-Fluorobiphenyl		----------NA----------				
11	T	Acenaphthylene	2.248	2.139	4.8	98	0.03	9.43
12	T	Acenaphthene	2.287	2.508	-9.7	105	0.00	9.60
13		Dibenzofuran	1.879	2.245	-19.5	168	0.00	9.81
14	T	Fluorene	1.046	1.289	-23.2	149	0.00	10.16
15	I	Phenanthrene-d10	1.000	1.000	0.0	128	0.00	11.09
16	S	2,4,6-Tribromophenol		----------NA----------				
17		Pentachlorophenol		----------NA----------				
18	T	Phenanthrene	1.923	1.897	1.4	123	0.00	11.11
19	T	Anthracene	1.992	2.235	-12.2	139	0.00	11.17
20	T	Fluoranthene	1.706	1.878	-10.1	128	0.00	12.29
21	I	Chrysene-d12	1.000	1.000	0.0	141	0.00	13.89
		----------	Amount	Calc.	%Drift		----------	
22	T	Pyrene	2.500	2.534	-1.4	135	0.02	12.53
		----------	AvgRF	CCRF	%Dev		----------	
23	S	Terphenyl-d14		----------NA----------				
24	T	Benzo[a]anthracene	1.298	1.376	-6.0	150	0.00	13.87
25	T	Chrysene	1.599	1.706	-6.7	138	0.00	13.92
26	I	Perylene-d12	1.000	1.000	0.0	193	0.00	16.35
		----------	Amount	Calc.	%Drift		----------	
27	T	Benzo[b]fluoranthene	2.500	2.761	-10.4	186	0.02	15.62

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1918-ICV1918
Lab FileID: H35519.D

28	T	Benzo[k]fluoranthene	2.500	2.417	3.3	185	0.00	15.66
29	T	Benzo[a]pyrene	2.500	2.456	1.8	196	0.00	16.24
30	T	Indeno[1,2,3-cd]pyrene	2.500	2.607	-4.3	236	-0.02	18.68
31	T	Dibenz[a,h]anthracene	2.500	2.571	-2.8	246	-0.02	18.68
32	T	Benzo[g,h,i]perylene	2.500	2.610	-4.4	234	-0.02	19.27

H35513.D H10219SP.M Wed Oct 21 14:44:12 2009

Initial Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1919-ICC1919
Lab FileID: H35550.D

```
                         Response Factor Report  TXMSH

 Method       : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
 Title        : SIM METHOD FOR BNA
 Last Update  : Thu Oct 22 16:11:15 2009
 Response via : Initial Calibration

 Calibration Files
 0.1 =H35546.D    5   =H35549.D    1   =H35545.D    2.5 =H35550.D
 0.2 =H35547.D    10  =H35548.D        =

    Compound             0.1   5     1     2.5   0.2   10          Avg   %RSD
 ---------------------------------------------------------------------------

 1) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 2)I N-Nitrosodimethyl                                          0.000  -1.00
 3)I N-Nitroso-di-n-pr                                          0.000  -1.00

 4) I   Naphthalene-d8        ----------------ISTD---------------------
 5)S Nitrobenzene-d5   0.050 0.309 0.283 0.345 0.197 0.442       0.271  49.63
            ---- Quadratic regression ----  Coefficient =  0.9971
              Response Ratio = 0.03248 + 0.21751 *A + 0.01758 *A^2

 6)T Naphthalene       1.714 2.244 1.972 2.183 1.603 2.790       2.084  20.52
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = 0.01335 + 1.78277 *A + 0.39929 *A^2

 7)  2-Methylnaphthale 0.504 1.371 1.806 1.353 0.658 1.498       1.198  42.34
            ---- Quadratic regression ----  Coefficient =  0.9983
              Response Ratio = 0.01575 + 1.28023 *A + 0.08336 *A^2

 8)  1-Methylnaphthale 1.445 2.465 2.225 2.202 1.544 2.752       2.106  24.43
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.02454 + 2.16466 *A + 0.23967 *A^2


 9) I   Acenaphthene-d10      ----------------ISTD---------------------
10)S 2-Fluorobiphenyl  3.577 3.585 3.049 3.466 2.587 3.103       3.228  12.12
11)T Acenaphthylene    3.171 2.176 3.162 1.952 2.993 2.411       2.644  20.15
            ---- Quadratic regression ----  Coefficient =  0.9974
              Response Ratio = 0.10788 + 1.80423 *A + 0.22481 *A^2

12)T Acenaphthene      2.509 2.663 2.346 2.440 1.945 2.485       2.398  10.21
13)  Dibenzofuran      3.262 2.014 3.882 2.687 2.681             2.905  24.17
            ---- Quadratic regression ----  Coefficient =  0.9932
              Response Ratio = 0.01223 + 3.59570 *A + -1.28204 *A^2

14)T Fluorene          1.461 1.255 2.461 1.462 1.412 1.293       1.558  28.95
            ---- Quadratic regression ----  Coefficient =  0.9906
              Response Ratio = 0.09183 + 1.26110 *A + -0.00477 *A^2


15) I   Phenanthrene-d10      ----------------ISTD---------------------
16)S 2,4,6-Tribromophe 0.055 0.163 0.142 0.161 0.068 0.147       0.123  39.31
            ---- Quadratic regression ----  Coefficient =  0.9998
              Response Ratio = -0.05885 + 0.18162 *A + -0.00129 *A^2

17)  Pentachlorophenol                                          0.000  -1.00
18)T Phenanthrene      2.044 1.932 1.762 1.808 1.759 1.992       1.883   6.54
19)T Anthracene        2.382 2.188 2.104 2.123 2.200 2.060       2.176   5.22
```

Initial Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1919-ICC1919
Lab FileID: H35550.D

```
20)T Fluoranthene      0.868 1.168 1.027 1.062 0.811 1.364       1.050  19.22
            ---- Quadratic regression ----  Coefficient =  1.0000
              Response Ratio = -0.00377 + 0.97628 *A + 0.15571 *A^2


21) I   Chrysene-d12          ----------------ISTD---------------------
22)T Pyrene            8.583 7.179 6.549 5.764 5.511 6.022       6.601  17.26
            ---- Quadratic regression ----  Coefficient =  0.9947
              Response Ratio = -0.20007 + 7.65192 *A + -0.60531 *A^2

23)S Terphenyl-d14     0.718 1.411 0.894 0.924 0.647 1.384       0.996  32.92
            ---- Quadratic regression ----  Coefficient =  0.9938
              Response Ratio = -0.35075 + 1.28854 *A + 0.01066 *A^2

24)T Benzo[a]anthracen 0.865 1.142 1.047 1.280 0.668 1.501       1.084  27.31
            ---- Quadratic regression ----  Coefficient =  0.9976
              Response Ratio = 0.01789 + 0.91033 *A + 0.23122 *A^2

25)T Chrysene          2.181 1.855 1.701 1.627 1.766 1.550       1.780  12.55

26) I   Perylene-d12          ----------------ISTD---------------------
27)T Benzo[b]fluoranth 0.657 1.254 0.875 0.917 1.165 1.523       1.065  29.09
            ---- Quadratic regression ----  Coefficient =  0.9991
              Response Ratio = -0.01536 + 0.90697 *A + 0.25037 *A^2

28)T Benzo[k]fluoranth 1.235 2.338 2.039 2.040 0.434 2.392       1.746  43.77
            ---- Quadratic regression ----  Coefficient =  0.9994
              Response Ratio = -0.07182 + 2.26238 *A + 0.06487 *A^2

29)T Benzo[a]pyrene    0.936 1.518 1.352 1.333 1.247 1.574       1.327  17.10
            ---- Quadratic regression ----  Coefficient =  0.9995
              Response Ratio = -0.02138 + 1.41779 *A + 0.06696 *A^2

30)T Indeno[1,2,3-cd]p 0.538 1.169 0.905 1.088 0.276 1.165       0.857  43.27
            ---- Quadratic regression ----  Coefficient =  0.9996
              Response Ratio = -0.04419 + 1.18847 *A + -0.00163 *A^2

31)T Dibenz[a,h]anthra 0.568 0.819 0.655 0.747 0.511 0.839       0.690  19.52
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.01947 + 0.79264 *A + 0.02233 *A^2

32)T Benzo[g,h,i]peryl 0.488 1.036 0.865 0.980 0.577 0.973       0.820  28.17
            ---- Quadratic regression ----  Coefficient =  0.9995
              Response Ratio = -0.03348 + 1.09867 *A + -0.04429 *A^2

--------------------------------------------------------------------------------
(#) = Out of Range

          H10229SP.M        Thu Oct 22 16:11:51 2009
```

7.7.3

7

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1919-ICV1919
Lab FileID: H35551.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\EH1919\H35551.D            Vial: 9
Acq On    : 22 Oct 2009   3:18 pm                   Operator: sheilac
Sample    : icv1919-2.5                             Inst    : TXMSH
Misc      : OP12779,EH1919,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title        : SIM METHOD FOR BNA
Last Update  : Thu Oct 22 16:12:53 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	139	0.00	5.66
2	I	N-Nitrosodimethylamine		----------NA----------				
3	I	N-Nitroso-di-n-propylamin		----------NA----------				
4	I	Naphthalene-d8	1.000	1.000	0.0	161	-0.03	7.54
5	S	Nitrobenzene-d5		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
6	T	Naphthalene	2.500	2.464	1.4	149	0.00	7.57
7		2-Methylnaphthalene	2.500	2.605	-4.2	168	0.00	8.47
8		1-Methylnaphthalene	2.500	2.214	11.4	146	0.00	8.55
		----------	AvgRF	CCRF	%Dev	----------		
9	I	Acenaphthene-d10	1.000	1.000	0.0	137	0.00	9.57
10	S	2-Fluorobiphenyl		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
11	T	Acenaphthylene	2.500	2.328	6.9	139	0.00	9.43
		----------	AvgRF	CCRF	%Dev	----------		
12	T	Acenaphthene	2.398	2.397	0.0	134	0.00	9.60
13		Dibenzofuran	2.905	2.131	26.6	109	0.00	9.81
		----------	Amount	Calc.	%Drift	----------		
14	T	Fluorene	2.500	2.012	19.5	109	0.00	10.16
		----------	AvgRF	CCRF	%Dev	----------		
15	I	Phenanthrene-d10	1.000	1.000	0.0	130	0.00	11.09
16	S	2,4,6-Tribromophenol		----------NA----------				
17		Pentachlorophenol		----------NA----------				
18	T	Phenanthrene	1.883	1.830	2.8	131	0.00	11.11
19	T	Anthracene	2.176	2.168	0.4	133	0.00	11.17
		----------	Amount	Calc.	%Drift	----------		
20	T	Fluoranthene	2.500	2.614	-4.6	137	0.00	12.31
		----------	AvgRF	CCRF	%Dev	----------		
21	I	Chrysene-d12	1.000	1.000	0.0	91	0.00	13.90

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1919-ICV1919
Lab FileID: H35551.D

			Amount	Calc.	%Drift			
22	T	Pyrene	2.500	2.855	-14.2	126	0.00	12.53
			AvgRF	CCRF	%Dev			
23	S	Terphenyl-d14		NA				
			Amount	Calc.	%Drift			
24	T	Benzo[a]anthracene	2.500	2.453	1.9	76	0.00	13.89
			AvgRF	CCRF	%Dev			
25	T	Chrysene	1.780	1.954	-9.8	110	0.00	13.94
26	I	Perylene-d12	1.000	1.000	0.0	74	0.00	16.37
			Amount	Calc.	%Drift			
27	T	Benzo[b]fluoranthene	2.500	2.078	16.9	67	0.00	15.64
28	T	Benzo[k]fluoranthene	2.500	2.766	-10.6	88	0.00	15.69
29	T	Benzo[a]pyrene	2.500	2.358	5.7	74	0.00	16.28
30	T	Indeno[1,2,3-cd]pyrene	2.500	2.214	11.4	66	0.02	18.74
31	T	Dibenz[a,h]anthracene	2.500	2.164	13.4	66	0.02	18.72
32	T	Benzo[g,h,i]perylene	2.500	2.194	12.2	67	0.02	19.31

H35550.D H10229SP.M Thu Oct 22 16:15:16 2009

7.7.4

7

Initial Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ615-ICC615
Lab FileID: J13340.D

Response Factor Report AGC-VOA-MSJ

Method : C:\msdchem\1\METHODS\ej615mg.m (RTE Integrator)
Title :
Last Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration

Calibration Files
25 =j13337.D 50 =j13340.D 75 =j13341.D 100 =j13338.D
10 =j13336.D 5 =j13335.D 125 =j13339.D =

Compound	25	50	75	100	10	5	125	Avg	%RSD
1) I 1,4-Dichlorobenzene-d					ISTD				
2) n-Nitrosodim	0.678	0.701	0.713	0.667	0.657	0.662	0.628	0.672	4.21
3) Pyridine	1.145	1.312	1.323	1.182	1.102	1.103	1.138	1.186	7.89
4) 2-Fluorophen	1.224	1.352	1.350	1.276	1.180	1.200	1.205	1.255	5.71
5) Phenol-d5 (S	1.593	1.755	1.739	1.494	1.468	1.508	1.425	1.569	8.42
6) Phenol	1.737	1.904	1.892	1.600	1.594	1.635	1.523	1.698	8.89
7) Aniline	1.729	1.930	1.841	1.723	1.540	1.496		1.710	9.83
8) bis(2-Chloro	1.694	1.749	1.827	1.566	1.620	1.637	1.558	1.664	5.91
9) 2-Chlorophen	1.308	1.403	1.387	1.332	1.247	1.257	1.284	1.317	4.63
10) 1,3-Dichloro	1.466	1.595	1.577	1.514	1.416	1.430	1.444	1.492	4.81
11) 1,4-Dichloro	1.572	1.697	1.668	1.634	1.510	1.562	1.561	1.601	4.19
12) Benzyl Alcoh	0.908	1.000	0.999	0.945	0.818	0.817	0.936	0.918	8.30
13) 1,2-Dichloro	1.459	1.622	1.611	1.565	1.380	1.367	1.506	1.501	6.94
14) 2-Methylphen	1.188	1.241	1.236	1.203	1.143	1.126	1.193	1.190	3.65
15) bis(2-chloro	2.192	2.163	2.165	1.964	2.223	2.155	1.890	2.108	6.04
16) 4-Methylphen	1.209	1.300	1.291	1.337	1.157	1.153	1.367	1.259	6.84
17) m+p-Cresols	1.209	1.300	1.291	1.337	1.157	1.153	1.367	1.259	6.84
18) n-Nitroso-di	1.132	1.182	1.185	1.151	1.105	1.076	1.164	1.142	3.53
19) Hexachloroet	0.571	0.626	0.618	0.609	0.542	0.543	0.578	0.584	5.94
20) I Naphthalene-d8					ISTD				
21) Nitrobenzene	0.412	0.446	0.447	0.423	0.397	0.403	0.407	0.419	4.85
22) Nitrobenzene	0.409	0.436	0.438	0.415	0.394	0.395	0.397	0.412	4.52
23) Isophorone	0.751	0.786	0.796	0.762	0.732	0.726	0.741	0.756	3.52
24) 2-Nitropheno	0.176	0.200	0.198	0.215	0.155	0.163	0.219	0.189	13.24
25) 2,4-Dimethyl	0.300	0.350	0.352	0.326	0.280	0.267	0.317	0.313	10.46
26) bis(2-Chloro	0.412	0.437	0.442	0.426	0.394	0.397	0.410	0.417	4.48
27) Benzoic Acid	0.140	0.194	0.177	0.188	0.087	0.104	0.199	0.156	29.33
---- Quadratic regression ---- Coefficient = 0.9968									
Response Ratio = -0.01531 + 0.17515 *A + 0.00874 *A^2									
28) 2,4-Dichloro	0.258	0.294	0.295	0.306	0.234	0.239	0.304	0.276	11.26
29) 1,2,4-Trichl	0.316	0.355	0.353	0.353	0.297	0.299	0.347	0.332	7.98
30) Naphthalene	1.052	1.167	1.171	1.129	0.996	1.011	1.100	1.089	6.55
31) 4-Chloroanil	0.310	0.409	0.407	0.400	0.310	0.303	0.401	0.363	14.27
---- Linear regression ---- Coefficient = 0.9982									
Response Ratio = -0.02549 + 0.41205 *A									
32) Hexachlorobu	0.199	0.220	0.222	0.223	0.189	0.188	0.215	0.208	7.47
33) 4-Chloro-3-m	0.292	0.332	0.340	0.342	0.264	0.269	0.340	0.311	11.26
34) 2-Methylnaph	0.640	0.719	0.716	0.702	0.597	0.598	0.687	0.666	8.06
35) 1-Methylnaph	0.667	0.753	0.748	0.735	0.627	0.628	0.722	0.697	7.95
36) I Acenaphthene-d10					ISTD				
37) Hexachlorocy	0.113	0.209	0.194	0.199	0.028	0.047	0.216	0.144	55.79
---- Quadratic regression ---- Coefficient = 0.9945									

```
                Response Ratio = -0.03402 + 0.20157 *A + 0.00717 *A^2

38) 2,4,6-Trichl 0.321 0.355 0.365 0.364 0.274 0.292 0.365       0.334  11.44
39) 2,4,5-Trichl 0.351 0.387 0.402 0.419 0.277 0.295 0.424       0.365  16.28
             ---- Linear regression ----  Coefficient =  0.9990
                Response Ratio = -0.04071 + 0.43274 *A

40) 2-Fluorobiph 1.525 1.667 1.697 1.651 1.363 1.387 1.617       1.558   8.76
41) 2-Chloronaph 1.095 1.182 1.197 1.162 1.006 1.035 1.147       1.118   6.66
42) 2-Nitroanili 0.382 0.398 0.408 0.371 0.349 0.361 0.361       0.376   5.71
43) Dimethylphth 1.332 1.405 1.445 1.335 1.296 1.279 1.310       1.343   4.49
44) Acenaphthyle 1.897 2.015 2.060 1.895 1.751 1.763 1.880       1.894   6.09
45) 2,6-Dinitrot 0.305 0.328 0.340 0.325 0.285 0.288 0.340       0.316   7.32
46) 3-Nitroanili 0.222 0.295 0.305 0.298 0.222 0.226 0.291       0.266  14.93
             ---- Quadratic regression ----  Coefficient =  0.9976
                Response Ratio = -0.02988 + 0.32934 *A + -0.00850 *A^2

47) Acenaphthene 1.099 1.176 1.196 1.136 1.032 1.027 1.125       1.113   5.88
48) 2,4-Dinitrop 0.058 0.104 0.119 0.122 0.005 0.014 0.130       0.079  67.07
             ---- Quadratic regression ----  Coefficient =  0.9975
                Response Ratio = -0.02255 + 0.10885 *A + 0.00924 *A^2

49) 4-Nitropheno 0.153 0.175 0.182 0.196 0.157 0.113 0.180       0.165  16.66
             ---- Quadratic regression ----  Coefficient =  0.9954
                Response Ratio = -0.01653 + 0.19999 *A + -0.00333 *A^2

50) Dibenzofuran 1.553 1.690 1.731 1.646 1.435 1.436 1.639       1.590   7.47
51) 2,4-Dinitrot 0.375 0.407 0.427 0.388 0.336 0.337 0.380       0.378   8.89
52) 2,3,4,6-Tetr 0.259 0.301 0.309 0.309 0.205 0.217 0.313       0.273  17.02
             ---- Quadratic regression ----  Coefficient =  0.9996
                Response Ratio = -0.02272 + 0.31365 *A + 0.00221 *A^2

53) Diethylphtha 1.364 1.467 1.523 1.414 1.308 1.279 1.402       1.394   6.14
54) Fluorene     1.328 1.476 1.542 1.479 1.210 1.206 1.457       1.386   9.90
55) 4-Chlorophen 0.637 0.712 0.749 0.762 0.586 0.578 0.770       0.685  12.14
             ---- Quadratic regression ----  Coefficient =  0.9997
                Response Ratio = -0.03593 + 0.72331 *A + 0.01949 *A^2

56) 4-Nitroanili 0.206 0.241 0.257 0.259 0.186 0.193 0.242       0.226  13.56
             ---- Quadratic regression ----  Coefficient =  0.9970
                Response Ratio = -0.02565 + 0.28335 *A + -0.00912 *A^2


57) I   Phenanthrene-d10      ----------------ISTD---------------------
58) 1,2-Diphenyl 0.970 1.046 1.028 1.115 0.941 0.952 1.068       1.017   6.39
59) 4,6-Dinitro- 0.098 0.128 0.136 0.138 0.056 0.060 0.141       0.108  34.49
             ---- Linear regression ----  Coefficient =  0.9987
                Response Ratio = -0.02146 + 0.14711 *A

60) Diphenylamin 0.711 0.788 0.777 0.800 0.673 0.692 0.799       0.749   7.30
61) n-Nitrosodip 0.711 0.788 0.777 0.800 0.673 0.692 0.799       0.749   7.30
62) 2,4,6-Tribro 0.120 0.142 0.145 0.164 0.100 0.104 0.167       0.135  20.17
             ---- Linear regression ----  Coefficient =  0.9946
                Response Ratio = -0.04777 + 0.17040 *A

63) 4-Bromopheny 0.239 0.265 0.265 0.273 0.227 0.229 0.269       0.253   7.91
64) Hexachlorobe 0.263 0.283 0.287 0.292 0.258 0.256 0.288       0.275   5.69
65) Pentachlorop 0.071 0.095 0.106 0.118             0.121       0.102  19.75
             ---- Quadratic regression ----  Coefficient =  0.9991
                Response Ratio = -0.02898 + 0.11149 *A + 0.00632 *A^2
```

Initial Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ615-ICC615
Lab FileID: J13340.D

```
66) Phenanthrene 1.143 1.240 1.269 1.263 1.099 1.092 1.237       1.192   6.54
67) Anthracene   1.095 1.191 1.243 1.218 1.045 1.041 1.200       1.147   7.41
68) Carbazole    0.837 0.954 1.016 0.974 0.855 0.865 0.966       0.924   7.59
69) Di-n-butylph 1.379 1.439 1.568 1.488 1.389 1.286 1.468       1.431   6.32
70) Fluoranthene 1.034 1.068 1.211 1.119 1.029 0.992 1.111       1.080   6.78

71) I   Chrysene-d12          ----------------ISTD---------------------
72) Benzidine    0.119 0.389 0.498       0.228 0.173             0.281  56.15
            ---- Quadratic regression ----  Coefficient =  0.9908
              Response Ratio = 0.00905 + 0.04030 *A + 0.24552 *A^2

73) Pyrene       1.473 1.686 1.394 1.390 1.294 1.302 1.327       1.409   9.72
74) Terphenyl-d1 0.968 1.117 0.977 0.989 0.845 0.836 0.953       0.955   9.98
75) Butylbenzylp 0.657 0.683 0.662 0.626 0.602 0.570 0.594       0.628   6.60
76) Benzo(a)anth 1.100 1.161 1.160 1.167 1.070 1.111 1.108       1.125   3.34
77) 3,3'-Dichlor 0.188 0.223 0.268 0.333 0.284 0.287 0.348       0.276  20.58
            ---- Quadratic regression ----  Coefficient =  0.9963
              Response Ratio = 0.01656 + 0.13876 *A + 0.06756 *A^2

78) Chrysene     0.959 0.996 1.002 0.939 0.933 0.939 0.873       0.949   4.56
79) bis(2-Ethylh 0.882 0.830 0.894 0.860 0.856 0.767 0.815       0.843   5.13

80) I   Perylene-d12          ----------------ISTD---------------------
81) Di-n-octylph 1.888 1.943 2.022 2.213 1.528 1.539 2.278       1.916  15.44
            ---- Linear regression ----  Coefficient =  0.9959
              Response Ratio = -0.25570 + 2.29892 *A

82) Benzo(b)fluo 1.227 1.357 1.411 1.488 1.111 1.201 1.458       1.322  10.85
83) Benzo(k)fluo 1.212 1.306 1.258 1.224 1.113 1.128 1.211       1.207   5.63
84) Benzo(a)pyre 1.074 1.173 1.200 1.230 0.994 1.027 1.202       1.129   8.42
85) Indeno(1,2,3 0.962 1.053 1.093 0.949 0.924 0.863 0.819       0.952  10.22
86) Dibenz(a,h)a 0.782 0.868 0.912 0.818 0.745 0.693 0.712       0.790  10.23
87) Benzo(g,h,i) 0.759 0.814 0.814 0.663 0.753 0.686 0.544       0.719  13.38
-------------------------------------------------------------------------------
(#) = Out of Range

          ej615mg.m         Wed Sep 23 15:17:07 2009
```

7.7.5

7

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ615-ICV615
Lab FileID: J13342.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ej615\j13342.D Vial: 11
Acq On : 23 Sep 2009 3:21 pm Operator: sheilac
Sample : icv615-50 Inst : AGC-VOA-MSJ
Misc : op12949,Ej615,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\ej615mg.m (RTE Integrator)
Title :
Last Update : Wed Sep 23 15:14:24 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	0.00	4.88
2		n-Nitrosodimethylamine	0.672	0.742	-10.4	88	0.01	2.65
3		Pyridine	1.186	1.220	-2.9	77	0.02	2.64
4	S	2-Fluorophenol (SURR)		----------NA----------				
5	S	Phenol-d5 (SURR)		----------NA----------				
6	C	Phenol	1.698	1.634	3.8	71	0.02	4.69
7		Aniline	1.710	1.148	32.9	49	0.00	4.63
8		bis(2-Chloroethyl)ether	1.664	1.506	9.5	71	0.00	4.67
9		2-Chlorophenol	1.317	1.288	2.2	76	0.00	4.75
10		1,3-Dichlorobenzene	1.492	1.433	4.0	74	0.00	4.84
11	C	1,4-Dichlorobenzene	1.601	1.501	6.2	73	0.00	4.90
12		Benzyl Alcohol	0.918	0.917	0.1	76	0.00	5.03
13		1,2-Dichlorobenzene	1.501	1.450	3.4	74	0.00	5.03
14		2-Methylphenol	1.190	1.167	1.9	78	0.01	5.17
15		bis(2-chloroisopropyl)eth	2.108	2.030	3.7	78	0.00	5.13
16		4-Methylphenol	1.259	1.244	11.9	80	0.00	5.30
17		m+p-Cresols	1.259	1.244	11.9	80	0.00	5.30
18	P	n-Nitroso-di-n-propylamin	1.142	1.065	6.7	75	-0.01	5.26
19		Hexachloroethane	0.584	0.566	3.1	75	0.00	5.33
20	I	Naphthalene-d8	1.000	1.000	0.0	82	0.00	6.12
21	S	Nitrobenzene-d5 (SURR)		----------NA----------				
22		Nitrobenzene	0.412	0.385	6.6	73	-0.01	5.40
23		Isophorone	0.756	0.715	5.4	75	0.00	5.64
24	C	2-Nitrophenol	0.189	0.178	5.8	73	0.00	5.72
25		2,4-Dimethylphenol	0.313	0.279	10.9	66	0.00	5.79
26		bis(2-Chloroethoxy)methan	0.417	0.395	5.3	75	-0.01	5.85
		----------	Amount	Calc.	%Drift		----------	
27		Benzoic Acid	50.000	45.345	9.3	66	-0.03	5.98
		----------	AvgRF	CCRF	%Dev		----------	
28	C	2,4-Dichlorophenol	0.276	0.261	5.4	73	0.00	6.01
29		1,2,4-Trichlorobenzene	0.332	0.300	9.6	70	0.00	6.06
30		Naphthalene	1.089	1.049	3.7	74	0.00	6.15
		----------	Amount	Calc.	%Drift		----------	
31		4-Chloroaniline	50.000	23.422	53.2	35	0.00	6.22
		----------	AvgRF	CCRF	%Dev		----------	
32	C	Hexachlorobutadiene	0.208	0.196	5.8	73	0.00	6.29
33	C	4-Chloro-3-methylphenol	0.311	0.295	5.1	73	0.00	6.86

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ615-ICV615
Lab FileID: J13342.D

34		2-Methylnaphthalene	0.666	0.662	0.6	76	0.00	7.00
35		1-Methylnaphthalene	0.697	0.647	7.2	71	0.00	7.14
36	I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00	8.62
		----------	Amount	Calc.	%Drift		----------	
37	P	Hexachlorocyclopentadiene	50.000	43.143	13.7	56	0.00	7.24
		----------	AvgRF	CCRF	%Dev		----------	
38	C	2,4,6-Trichlorophenol	0.334	0.341	-2.1	73	0.00	7.44
		----------	Amount	Calc.	%Drift		----------	
39		2,4,5-Trichlorophenol	50.000	42.862	14.3	66	0.00	7.53
		----------	AvgRF	CCRF	%Dev		----------	
40	S	2-Fluorobiphenyl (SURR)		----------NA----------				
41		2-Chloronaphthalene	1.118	1.121	-0.3	72	0.00	7.71
42		2-Nitroaniline	0.376	0.387	-2.9	74	-0.01	7.90
43		Dimethylphthalate	1.343	1.350	-0.5	73	-0.02	8.22
44		Acenaphthylene	1.894	1.937	-2.3	73	-0.01	8.38
45		2,6-Dinitrotoluene	0.316	0.305	3.5	71	-0.02	8.30
		----------	Amount	Calc.	%Drift		----------	
46		3-Nitroaniline	50.000	39.803	20.4	60	-0.02	8.60
		----------	AvgRF	CCRF	%Dev		----------	
47	C	Acenaphthene	1.113	1.097	1.4	71	-0.01	8.68
		----------	Amount	Calc.	%Drift		----------	
48	P	2,4-Dinitrophenol	50.000	39.851	20.3	55	-0.01	8.79
49	P	4-Nitrophenol	50.000	45.272	9.5	71	0.00	9.10
		----------	AvgRF	CCRF	%Dev		----------	
50		Dibenzofuran	1.590	1.568	1.4	70	-0.01	8.99
51		2,4-Dinitrotoluene	0.378	0.377	0.3	70	-0.02	9.01
		----------	Amount	Calc.	%Drift		----------	
52		2,3,4,6-Tetrachlorophenol	50.000	45.114	9.8	67	0.00	9.26
		----------	AvgRF	CCRF	%Dev		----------	
53		Diethylphthalate	1.394	1.374	1.4	71	-0.02	9.47
54		Fluorene	1.386	1.330	4.0	68	-0.01	9.61
		----------	Amount	Calc.	%Drift		----------	
55		4-Chlorophenyl-phenylethe	50.000	45.072	9.9	68	-0.01	9.63
56		4-Nitroaniline	50.000	38.482	23.0	60	-0.04	9.71
		----------	AvgRF	CCRF	%Dev		----------	
57	I	Phenanthrene-d10	1.000	1.000	0.0	74	0.00	11.43
58		1,2-Diphenylhydrazine	1.017	0.993	2.4	71	-0.01	9.93
		----------	Amount	Calc.	%Drift		----------	
59		4,6-Dinitro-2-methylpheno	50.000	44.289	11.4	66	-0.03	9.78
		----------	AvgRF	CCRF	%Dev		----------	
60		Diphenylamine	0.749	0.609	18.7	58	-0.02	9.87
61	C	n-Nitrosodiphenylamine	0.749	0.609	18.7	58	-0.02	9.87
		----------	Amount	Calc.	%Drift		----------	

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ615-ICV615
Lab FileID: J13342.D

```
62 S   2,4,6-Tribromophenol (SUR          ----------NA----------

           ----------------------- AvgRF   CCRF      %Dev   --------------
63     4-Bromophenyl-phenylether   0.253   0.245      3.2   69  -0.01   10.56
64     Hexachlorobenzene           0.275   0.269      2.2   71  -0.02   10.69

           ----------------------- Amount  Calc.    %Drift   -------------
65 C   Pentachlorophenol          50.000  47.078      5.8   70   0.00   11.13

           ----------------------- AvgRF   CCRF      %Dev   --------------
66     Phenanthrene                1.192   1.157      2.9   70  -0.01   11.47
67     Anthracene                  1.147   1.122      2.2   70  -0.01   11.58
68     Carbazole                   0.924   0.812     12.1   63   0.00   11.95
69     Di-n-butylphthalate         1.431   1.445     -1.0   75   0.00   12.76
70 C   Fluoranthene                1.080   1.154     -6.9   80  -0.01   13.92

71 I   Chrysene-d12                1.000   1.000      0.0  106  -0.01   16.95

           ----------------------- Amount  Calc.    %Drift   -------------
72     Benzidine                          ----------NA----------

           ----------------------- AvgRF   CCRF      %Dev   --------------
73     Pyrene                      1.409   1.259     10.6   79  -0.01   14.38
74 S   Terphenyl-d14                      ----------NA----------
75     Butylbenzylphthalate        0.628   0.613      2.4   95  -0.01   15.88
76     Benzo(a)anthracene          1.125   1.092      2.9   99   0.00   16.93

           ----------------------- Amount  Calc.    %Drift   -------------
77     3,3'-Dichlorobenzidine     50.000  52.996     -6.0  121  -0.01   16.92

           ----------------------- AvgRF   CCRF      %Dev   --------------
78     Chrysene                    0.949   0.933      1.7   99  -0.02   17.00
79     bis(2-Ethylhexyl)phthalat   0.843   0.805      4.5  102   0.00   17.14

80 I   Perylene-d12                1.000   1.000      0.0  126   0.00   19.75

           ----------------------- Amount  Calc.    %Drift   -------------
81 C   Di-n-octylphthalate        50.000  41.480     17.0  111  -0.01   18.43

           ----------------------- AvgRF   CCRF      %Dev   --------------
82     Benzo(b)fluoranthene        1.322   1.255      5.1  117  -0.01   19.06
83     Benzo(k)fluoranthene        1.207   1.200      0.6  116  -0.01   19.11
84 C   Benzo(a)pyrene              1.129   0.977     13.5  105  -0.01   19.65
85     Indeno(1,2,3-cd)pyrene      0.952   1.080    -13.4  130  -0.01   21.93
86     Dibenz(a,h)anthracene       0.790   0.893    -13.0  130  -0.02   21.96
87     Benzo(g,h,i)perylene        0.719   0.834    -16.0  130  -0.01   22.55
-------------------------------------------------------------------------------
-------------------------------------------------------------------------------


    j13340.D   ej615mg.m        Wed Sep 23 16:53:38 2009
```

Initial Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ629-ICC629
Lab FileID: J13689.D

Response Factor Report AGC-VOA-MSJ

```
Method       : C:\msdchem\1\METHODS\ej629ben+res.m (RTE Integrator)
Title        :
Last Update  : Thu Oct 08 14:50:46 2009
Response via : Initial Calibration

Calibration Files
25  =j13693.D    40  =j13690.D    50  =j13689.D    75  =j13691.D
100 =j13694.D        =                =
```

Compound	25	40	50	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD						
2) Pyridine						0.000	-1.00
3)S 2-Fluorophenol (S	1.436	1.530	1.520	1.562	1.650	1.540	5.01
4) Benzenethiol	1.520	1.561	1.515	1.496	1.611	1.540	2.98
5)S Phenol-d5 (SURR)	1.796	1.920	1.932	2.003	2.144	1.959	6.50
6)C Phenol						0.000	-1.00
7) 1,3-Dichlorobenze						0.000	-1.00
8)C 1,4-Dichlorobenze						0.000	-1.00
9) 1,2-Dichlorobenze						0.000	-1.00
10) Indene						0.000	-1.00
11) 2-Methylphenol						0.000	-1.00
12) 4-Methylphenol						0.000	-1.00
13) m+p-Cresols						0.000	-1.00
14) I Naphthalene-d8	ISTD						
15)S Nitrobenzene-d5 (	0.470	0.495	0.495	0.504	0.525	0.498	3.99
16) 2,4-Dimethylpheno						0.000	-1.00
17) Naphthalene						0.000	-1.00
18) Quinoline						0.000	-1.00
19) Resorcinol	0.254	0.280	0.290	0.293	0.322	0.288	8.50
---- Linear regression ---- Coefficient = 0.9951							
Response Ratio = -0.03902 + 0.32709 *A							
20) 1-Methylnaphthale						0.000	-1.00
21) I Acenaphthene-d10	ISTD						
22)S 2-Fluorobiphenyl	1.506	1.619	1.635	1.664	1.776	1.640	5.90
23) Dimethylphthalate						0.000	-1.00
24)P 2,4-Dinitrophenol						0.000	-1.00
25)P 4-Nitrophenol						0.000	-1.00
26) Diethylphthalate						0.000	-1.00
27) I Phenanthrene-d10	ISTD						
28)S 2,4,6-Tribromophe	0.112	0.127	0.136	0.141	0.163	0.136	13.76
29) Phenanthrene						0.000	-1.00
30) Anthracene						0.000	-1.00
31) Di-n-butylphthala						0.000	-1.00
32)C Fluoranthene						0.000	-1.00
33) I Chrysene-d12	ISTD						
34) Pyrene						0.000	-1.00
35)S Terphenyl-d14	1.092	1.231	1.246	1.183	1.382	1.227	8.62
36) Butylbenzylphthal						0.000	-1.00
37) Benzo(a)anthracen						0.000	-1.00
38) Chrysene						0.000	-1.00
39) bis(2-Ethylhexyl)						0.000	-1.00

Initial Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ629-ICC629
Lab FileID: J13689.D

```
40) I   Perylene-d12          ----------------ISTD---------------------
41)  Methyl Chrysene                                          0.000  -1.00
42)C Di-n-octylphthala                                        0.000  -1.00
43)  7,12-Dimethylbenz                                        0.000  -1.00
44)  Benzo(b)fluoranth                                        0.000  -1.00
45)  Benzo(k)fluoranth                                        0.000  -1.00
46)C Benzo(a)pyrene                                           0.000  -1.00
47)  Dibenz(a,h)acridi                                        0.000  -1.00
48)  Dibenz(a,h)anthra                                        0.000  -1.00
-------------------------------------------------------------------------
(#) = Out of Range

          ej629ben+res.m        Thu Oct 08 14:52:12 2009
```

7.2.7

7

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ629-ICV629
Lab FileID: J13695.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ej629\j13695.D            Vial: 9
Acq On    :  8 Oct 2009   2:26 pm                   Operator: sheilac
Sample    : icv629-50,(Bzth+Resor)                  Inst    : AGC-VOA-MSJ
Misc      : op12949,Ej629,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\ej629ben+res.m (RTE Integrator)
Title        :
Last Update  : Thu Oct 08 14:50:46 2009
Response via : Single Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	4.73
2		Pyridine		----------NA----------				
3	S	2-Fluorophenol (SURR)		----------NA----------				
4		Benzenethiol	1.540	1.465	4.9	88	0.00	4.40
5	S	Phenol-d5 (SURR)		----------NA----------				
6	C	Phenol		----------NA----------				
7		1,3-Dichlorobenzene		----------NA----------				
8	C	1,4-Dichlorobenzene		----------NA----------				
9		1,2-Dichlorobenzene		----------NA----------				
10		Indene		----------NA----------				
11		2-Methylphenol		----------NA----------				
12		4-Methylphenol		----------NA----------				
13		m+p-Cresols		----------NA----------				
14	I	Naphthalene-d8	1.000	1.000	0.0	90	0.00	5.94
15	S	Nitrobenzene-d5 (SURR)		----------NA----------				
16		2,4-Dimethylphenol		----------NA----------				
17		Naphthalene		----------NA----------				
18		Quinoline		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
19		Resorcinol	50.000	47.270	5.5	87	-0.01	6.59
		----------	AvgRF	CCRF	%Dev		----------	
20		1-Methylnaphthalene		----------NA----------				
21	I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00	8.41
22	S	2-Fluorobiphenyl (SURR)		----------NA----------				
23		Dimethylphthalate		----------NA----------				
24	P	2,4-Dinitrophenol		----------NA----------				
25	P	4-Nitrophenol		----------NA----------				
26		Diethylphthalate		----------NA----------				
27	I	Phenanthrene-d10	1.000	1.000	0.0	82	0.00	11.19
28	S	2,4,6-Tribromophenol (SUR		----------NA----------				
29		Phenanthrene		----------NA----------				
30		Anthracene		----------NA----------				
31		Di-n-butylphthalate		----------NA----------				
32	C	Fluoranthene		----------NA----------				
33	I	Chrysene-d12	1.000	1.000	0.0	72	0.00	16.71
34		Pyrene		----------NA----------				

Initial Calibration Verification

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ629-ICV629
Lab FileID: J13695.D

35	S	Terphenyl-d14		----------NA----------				
36		Butylbenzylphthalate		----------NA----------				
37		Benzo(a)anthracene		----------NA----------				
38		Chrysene		----------NA----------				
39		bis(2-Ethylhexyl)phthalat		----------NA----------				
40	I	Perylene-d12	1.000	1.000	0.0	85	0.00	19.51
41		Methyl Chrysene		----------NA----------				
42	C	Di-n-octylphthalate		----------NA----------				
43		7,12-Dimethylbenz(a)anthr		----------NA----------				
44		Benzo(b)fluoranthene		----------NA----------				
45		Benzo(k)fluoranthene		----------NA----------				
46	C	Benzo(a)pyrene		----------NA----------				
47		Dibenz(a,h)acridine		----------NA----------				
48		Dibenz(a,h)anthracene		----------NA----------				

j13689.D ej629ben+res.m Thu Oct 08 14:53:03 2009

7.7.8

7

Continuing Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ632-CC615
Lab FileID: J13756.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ej632\j13756.D Vial: 2
Acq On : 12 Oct 2009 4:42 pm Operator: sheilac
Sample : cc615-50 Inst : AGC-VOA-MSJ
Misc : op12949,Ej632,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\ej615mg.m (RTE Integrator)
Title :
Last Update : Fri Oct 09 16:33:16 2009
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	131	0.00	4.73
2		n-Nitrosodimethylamine	0.672	0.699	-4.0	130	0.00	2.46
3		Pyridine	1.186	1.253	-5.6	125	0.01	2.44
4	S	2-Fluorophenol (SURR)	1.255	1.283	-2.2	124	0.03	3.71
5	S	Phenol-d5 (SURR)	1.569	1.707	-8.8	127	0.00	4.51
6	C	Phenol	1.698	1.871	-10.2	128	0.00	4.52
		----------	Amount	Calc.	%Drift		----------	
7		Aniline	50.000	51.138	-2.3	131	0.03	4.48
		----------	AvgRF	CCRF	%Dev		----------	
8		bis(2-Chloroethyl)ether	1.664	1.593	4.3	119	0.00	4.53
9		2-Chlorophenol	1.317	1.306	0.8	122	0.00	4.58
10		1,3-Dichlorobenzene	1.492	1.481	0.7	121	0.00	4.68
11	C	1,4-Dichlorobenzene	1.601	1.619	-1.1	125	0.00	4.74
12		Benzyl Alcohol	0.918	0.894	2.6	117	0.00	4.88
13		1,2-Dichlorobenzene	1.501	1.524	-1.5	123	0.00	4.87
14		2-Methylphenol	1.190	1.157	2.8	122	0.00	4.99
15		bis(2-chloroisopropyl)eth	2.108	2.093	0.7	126	0.00	4.97
16		4-Methylphenol	1.259	1.185	5.9	119	0.00	5.14
17		m+p-Cresols	1.259	1.185	5.9	119	0.00	5.14
18	P	n-Nitroso-di-n-propylamin	1.142	1.116	2.3	123	-0.01	5.11
19		Hexachloroethane	0.584	0.592	-1.4	124	0.00	5.16
20	I	Naphthalene-d8	1.000	1.000	0.0	125	0.00	5.95
21	S	Nitrobenzene-d5 (SURR)	0.419	0.443	-5.7	124	-0.07	5.23
22		Nitrobenzene	0.412	0.436	-5.8	125	-0.07	5.25
23		Isophorone	0.756	0.761	-0.7	121	-0.06	5.49
24	C	2-Nitrophenol	0.189	0.189	0.0	118	-0.06	5.55
25		2,4-Dimethylphenol	0.313	0.324	-3.5	115	-0.06	5.63
26		bis(2-Chloroethoxy)methan	0.417	0.428	-2.6	123	-0.06	5.69
27		Benzoic Acid	0.156	0.152	2.6	98	-0.07	5.83
28	C	2,4-Dichlorophenol	0.276	0.284	-2.9	121	-0.07	5.83
29		1,2,4-Trichlorobenzene	0.332	0.345	-3.9	121	-0.07	5.88
30		Naphthalene	1.089	1.155	-6.1	124	-0.06	5.97
		----------	Amount	Calc.	%Drift		----------	
31		4-Chloroaniline	50.000	49.937	0.1	121	-0.06	6.04
		----------	AvgRF	CCRF	%Dev		----------	
32	C	Hexachlorobutadiene	0.208	0.221	-6.3	125	-0.07	6.11
33	C	4-Chloro-3-methylphenol	0.311	0.304	2.3	114	-0.07	6.67

Continuing Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ632-CC615
Lab FileID: J13756.D

34		2-Methylnaphthalene	0.666	0.688	-3.3	119	0.00	6.82
35		1-Methylnaphthalene	0.697	0.724	-3.9	120	0.00	6.95
36	I	Acenaphthene-d10	1.000	1.000	0.0	124	0.00	8.42
		----------	Amount	Calc.	%Drift		----------	
37	P	Hexachlorocyclopentadiene	50.000	44.264	11.5	88	0.00	7.04
		----------	AvgRF	CCRF	%Dev		----------	
38	C	2,4,6-Trichlorophenol	0.334	0.324	3.0	114	0.00	7.25
		----------	Amount	Calc.	%Drift		----------	
39		2,4,5-Trichlorophenol	50.000	42.077	15.8	107	0.00	7.33
40	S	2-Fluorobiphenyl (SURR)	50.000	48.192	3.6	117	-0.19	7.35
		----------	AvgRF	CCRF	%Dev		----------	
41		2-Chloronaphthalene	1.118	1.127	-0.8	119	-0.20	7.52
42		2-Nitroaniline	0.376	0.363	3.5	113	-0.20	7.71
43		Dimethylphthalate	1.343	1.247	7.1	110	-0.01	8.04
44		Acenaphthylene	1.894	1.823	3.7	113	-0.21	8.18
45		2,6-Dinitrotoluene	0.316	0.290	8.2	110	0.00	8.12
		----------	Amount	Calc.	%Drift		----------	
46		3-Nitroaniline	50.000	47.184	5.6	117	-0.20	8.42
		----------	AvgRF	CCRF	%Dev		----------	
47	C	Acenaphthene	1.113	1.097	1.4	116	-0.21	8.48
		----------	Amount	Calc.	%Drift		----------	
48	P	2,4-Dinitrophenol	50.000	47.690	4.6	115	-0.19	8.60
49	P	4-Nitrophenol	50.000	31.351	37.3#	78	0.00	8.88
		----------	AvgRF	CCRF	%Dev		----------	
50		Dibenzofuran	1.590	1.538	3.3	113	-0.22	8.78
51		2,4-Dinitrotoluene	0.378	0.334	11.6	102	0.00	8.83
		----------	Amount	Calc.	%Drift		----------	
52		2,3,4,6-Tetrachlorophenol	50.000	42.493	15.0	104	-0.22	9.05
		----------	AvgRF	CCRF	%Dev		----------	
53		Diethylphthalate	1.394	1.296	7.0	110	0.03	9.29
54		Fluorene	1.386	1.315	5.1	111	0.00	9.41
		----------	Amount	Calc.	%Drift		----------	
55		4-Chlorophenyl-phenylethe	50.000	45.696	8.6	114	-0.21	9.43
		----------	AvgRF	CCRF	%Dev		----------	
56		4-Nitroaniline	0.226	0.184	18.6	95	-0.22	9.53
57	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00	11.20
58		1,2-Diphenylhydrazine	1.017	1.042	-2.5	114	-0.08	9.73
		----------	Amount	Calc.	%Drift		----------	
59		4,6-Dinitro-2-methylpheno	50.000	46.219	7.6	106	-0.07	9.60
		----------	AvgRF	CCRF	%Dev		----------	
60		Diphenylamine	0.749	0.764	-2.0	110	-0.08	9.68
61	C	n-Nitrosodiphenylamine	0.749	0.764	-2.0	110	-0.08	9.68
62	S	2,4,6-Tribromophenol (SUR	0.135	0.133	1.5	107	-0.09	9.88
63		4-Bromophenyl-phenylether	0.253	0.258	-2.0	111	-0.08	10.35

Continuing Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ632-CC615
Lab FileID: J13756.D

64		Hexachlorobenzene	0.275	0.274	0.4	110	0.00	10.48
		----------	Amount	Calc.	%Drift		----------	
65	C	Pentachlorophenol	50.000	44.389	11.2	99	0.00	10.91
		----------	AvgRF	CCRF	%Dev		----------	
66		Phenanthrene	1.192	1.155	3.1	106	0.00	11.26
67		Anthracene	1.147	1.126	1.8	108	-0.07	11.36
68		Carbazole	0.924	0.847	8.3	101	-0.07	11.73
69		Di-n-butylphthalate	1.431	1.393	2.7	110	-0.03	12.56
70	C	Fluoranthene	1.080	1.017	5.8	108	0.00	13.70
71	I	Chrysene-d12	1.000	1.000	0.0	148	0.00	16.74
		----------	Amount	Calc.	%Drift		----------	
72		Benzidine	50.000	43.912	12.2	106	-0.03	14.05
		----------	AvgRF	CCRF	%Dev		----------	
73		Pyrene	1.409	1.262	10.4	111	-0.05	14.16
74	S	Terphenyl-d14	0.955	0.904	5.3	120	-0.02	14.57
75		Butylbenzylphthalate	0.628	0.598	4.8	129	0.00	15.67
76		Benzo(a)anthracene	1.125	1.092	2.9	139	0.00	16.71
77		3,3'-Dichlorobenzidine	0.276	0.268	2.9	178	0.01	16.72
78		Chrysene	0.949	0.947	0.2	141	0.00	16.79
79		bis(2-Ethylhexyl)phthalat	0.843	0.833	1.2	148	0.00	16.95
80	I	Perylene-d12	1.000	1.000	0.0	128	0.00	19.53
81	C	Di-n-octylphthalate	1.916	2.408	-25.7	159	0.00	18.24
82		Benzo(b)fluoranthene	1.322	1.308	1.1	123	0.00	18.85
83		Benzo(k)fluoranthene	1.207	1.352	-12.0	132	0.00	18.90
84	C	Benzo(a)pyrene	1.129	1.149	-1.8	125	0.10	19.43
85		Indeno(1,2,3-cd)pyrene	0.952	0.844	11.3	103	0.01	21.63
86		Dibenz(a,h)anthracene	0.790	0.713	9.7	105	0.00	21.65
87		Benzo(g,h,i)perylene	0.719	0.629	12.5	99	0.00	22.22

(#) = Out of Range SPCC's out = 0 CCC's out = 0
j13340.D ej615mg.m Mon Oct 12 20:33:47 2009

7.7.9

7

Continuing Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ632-CC629
Lab FileID: J13757.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ej632\j13757.D            Vial: 3
Acq On    : 12 Oct 2009   5:12 pm                   Operator: sheilac
Sample    : cc629-50,(Bnth+Resor)                   Inst    : AGC-VOA-MSJ
Misc      : op12949,Ej632,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\ej629ben+res.m (RTE Integrator)
Title        :
Last Update  : Thu Oct 08 14:53:20 2009
Response via : Single Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	155	0.00	4.72
2		Pyridine		----------NA----------				
3	S	2-Fluorophenol (SURR)	1.540	1.482	3.8	151	-0.01	3.71
4		Benzenethiol	1.540	1.384	10.1	142	0.00	4.40
5	S	Phenol-d5 (SURR)	1.959	1.790	8.6	144	-0.02	4.50
6	C	Phenol		----------NA----------				
7		1,3-Dichlorobenzene		----------NA----------				
8	C	1,4-Dichlorobenzene		----------NA----------				
9		1,2-Dichlorobenzene		----------NA----------				
10		Indene	0.000	0.039	0.0	0#	-0.20	4.72
11		2-Methylphenol		----------NA----------				
12		4-Methylphenol		----------NA----------				
13		m+p-Cresols		----------NA----------				
14	I	Naphthalene-d8	1.000	1.000	0.0	150	0.00	5.93
15	S	Nitrobenzene-d5 (SURR)	0.498	0.488	2.0	148	-0.01	5.22
16		2,4-Dimethylphenol		----------NA----------				
17		Naphthalene		----------NA----------				
18		Quinoline		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
19		Resorcinol	50.000	32.503	35.0#	94	0.00	6.59
		----------	AvgRF	CCRF	%Dev		----------	
20		1-Methylnaphthalene		----------NA----------				
21	I	Acenaphthene-d10	1.000	1.000	0.0	135	0.00	8.40
22	S	2-Fluorobiphenyl (SURR)	1.640	1.703	-3.8	141	-0.02	7.34
23		Dimethylphthalate		----------NA----------				
24	P	2,4-Dinitrophenol		----------NA----------				
25	P	4-Nitrophenol		----------NA----------				
26		Diethylphthalate		----------NA----------				
27	I	Phenanthrene-d10	1.000	1.000	0.0	96	-0.01	11.18
28	S	2,4,6-Tribromophenol (SUR	0.136	0.129	5.1	92	-0.02	9.85
29		Phenanthrene		----------NA----------				
30		Anthracene		----------NA----------				
31		Di-n-butylphthalate		----------NA----------				
32	C	Fluoranthene		----------NA----------				
33	I	Chrysene-d12	1.000	1.000	0.0	73	0.00	16.71
34		Pyrene		----------NA----------				

Continuing Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ632-CC629
Lab FileID: J13757.D

35	S	Terphenyl-d14	1.227	1.399	-14.0	82	-0.02	14.56
36		Butylbenzylphthalate	----------NA----------					
37		Benzo(a)anthracene	----------NA----------					
38		Chrysene	----------NA----------					
39		bis(2-Ethylhexyl)phthalat	----------NA----------					
40	I	Perylene-d12	1.000	1.000	0.0	74	0.01	19.53
41		Methyl Chrysene	----------NA----------					
42	C	Di-n-octylphthalate	----------NA----------					
43		7,12-Dimethylbenz(a)anthr	----------NA----------					
44		Benzo(b)fluoranthene	----------NA----------					
45		Benzo(k)fluoranthene	----------NA----------					
46	C	Benzo(a)pyrene	----------NA----------					
47		Dibenz(a,h)acridine	----------NA----------					
48		Dibenz(a,h)anthracene	----------NA----------					

(#) = Out of Range SPCC's out = 0 CCC's out = 0
j13689.D ej629ben+res.m Mon Oct 12 17:37:22 2009

7.7.10

7

Continuing Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ633-CC615
Lab FileID: J13784.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ej633\j13784.D            Vial: 2
Acq On    : 13 Oct 2009  11:00 am                   Operator: sheilac
Sample    : cc615-75                                Inst    : AGC-VOA-MSJ
Misc      : op12949,Ej633,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\ej615mg.m (RTE Integrator)
Title        :
Last Update  : Fri Oct 09 16:33:16 2009
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	148	-0.02	4.70
2		n-Nitrosodimethylamine	0.672	0.653	2.8	136	-0.01	2.45
3		Pyridine	1.186	1.188	-0.2	133	-0.01	2.42
4	S	2-Fluorophenol (SURR)	1.255	1.252	0.2	138	0.01	3.69
5	S	Phenol-d5 (SURR)	1.569	1.603	-2.2	137	0.00	4.49
6	C	Phenol	1.698	1.753	-3.2	138	-0.02	4.50
		----------	Amount	Calc.	%Drift		----------	
7		Aniline	75.000	77.160	-2.9	151	0.00	4.46
		----------	AvgRF	CCRF	%Dev		----------	
8		bis(2-Chloroethyl)ether	1.664	1.364	18.0	111	-0.02	4.51
9		2-Chlorophenol	1.317	1.210	8.1	130	-0.03	4.56
10		1,3-Dichlorobenzene	1.492	1.414	5.2	133	-0.02	4.66
11	C	1,4-Dichlorobenzene	1.601	1.552	3.1	138	-0.02	4.72
12		Benzyl Alcohol	0.918	0.844	8.1	125	-0.01	4.86
13		1,2-Dichlorobenzene	1.501	1.449	3.5	134	-0.02	4.85
14		2-Methylphenol	1.190	1.109	6.8	133	-0.03	4.97
15		bis(2-chloroisopropyl)eth	2.108	1.845	12.5	126	-0.01	4.95
16		4-Methylphenol	1.259	1.174	6.8	135	-0.01	5.12
17		m+p-Cresols	1.259	1.174	6.8	135	-0.01	5.12
18	P	n-Nitroso-di-n-propylamin	1.142	1.022	10.5	128	-0.03	5.09
19		Hexachloroethane	0.584	0.564	3.4	135	-0.02	5.14
20	I	Naphthalene-d8	1.000	1.000	0.0	140	-0.03	5.91
21	S	Nitrobenzene-d5 (SURR)	0.419	0.411	1.9	129	-0.09	5.21
22		Nitrobenzene	0.412	0.403	2.2	129	-0.09	5.23
23		Isophorone	0.756	0.690	8.7	121	-0.08	5.46
24	C	2-Nitrophenol	0.189	0.188	0.5	133	-0.09	5.52
25		2,4-Dimethylphenol	0.313	0.312	0.3	124	-0.08	5.61
26		bis(2-Chloroethoxy)methan	0.417	0.396	5.0	125	-0.08	5.67
27		Benzoic Acid	0.156	0.215	-37.8#	170	-0.05	5.84
28	C	2,4-Dichlorophenol	0.276	0.285	-3.3	135	-0.10	5.80
29		1,2,4-Trichlorobenzene	0.332	0.330	0.6	131	-0.10	5.85
30		Naphthalene	1.089	1.082	0.6	129	-0.09	5.94
		----------	Amount	Calc.	%Drift		----------	
31		4-Chloroaniline	75.000	73.480	2.0	135	-0.09	6.01
		----------	AvgRF	CCRF	%Dev		----------	
32	C	Hexachlorobutadiene	0.208	0.208	0.0	131	-0.10	6.08
33	C	4-Chloro-3-methylphenol	0.311	0.312	-0.3	129	-0.10	6.64

Continuing Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ633-CC615
Lab FileID: J13784.D

34		2-Methylnaphthalene	0.666	0.656	1.5	128	-0.04	6.78
35		1-Methylnaphthalene	0.697	0.683	2.0	128	-0.04	6.91
36	I	Acenaphthene-d10	1.000	1.000	0.0	147	-0.04	8.37
		----------	Amount	Calc.	%Drift		----------	
37	P	Hexachlorocyclopentadiene	75.000	65.414	12.8	124	-0.04	7.00
		----------	AvgRF	CCRF	%Dev		----------	
38	C	2,4,6-Trichlorophenol	0.334	0.316	5.4	127	-0.04	7.21
		----------	Amount	Calc.	%Drift		----------	
39		2,4,5-Trichlorophenol	75.000	63.703	15.1	126	-0.04	7.28
40	S	2-Fluorobiphenyl (SURR)	75.000	66.113	11.8	125	-0.23	7.31
		----------	AvgRF	CCRF	%Dev		----------	
41		2-Chloronaphthalene	1.118	1.049	6.2	129	-0.24	7.48
42		2-Nitroaniline	0.376	0.349	7.2	126	-0.24	7.67
43		Dimethylphthalate	1.343	1.194	11.1	121	-0.04	8.01
44		Acenaphthylene	1.894	1.731	8.6	123	-0.26	8.14
45		2,6-Dinitrotoluene	0.316	0.288	8.9	124	-0.04	8.09
		----------	Amount	Calc.	%Drift		----------	
46		3-Nitroaniline	75.000	74.841	0.2	143	-0.24	8.38
		----------	AvgRF	CCRF	%Dev		----------	
47	C	Acenaphthene	1.113	1.048	5.8	129	-0.25	8.44
		----------	Amount	Calc.	%Drift		----------	
48	P	2,4-Dinitrophenol	75.000	78.786	-5.0	150	-0.23	8.57
49	P	4-Nitrophenol	75.000	73.959	1.4	147	-0.05	8.82
		----------	AvgRF	CCRF	%Dev		----------	
50		Dibenzofuran	1.590	1.493	6.1	127	-0.26	8.74
51		2,4-Dinitrotoluene	0.378	0.346	8.5	119	-0.04	8.79
		----------	Amount	Calc.	%Drift		----------	
52		2,3,4,6-Tetrachlorophenol	75.000	67.169	10.4	129	-0.26	9.00
		----------	AvgRF	CCRF	%Dev		----------	
53		Diethylphthalate	1.394	1.313	5.8	127	0.00	9.26
54		Fluorene	1.386	1.350	2.6	129	-0.04	9.36
		----------	Amount	Calc.	%Drift		----------	
55		4-Chlorophenyl-phenylethe	75.000	68.244	9.0	131	-0.26	9.38
		----------	AvgRF	CCRF	%Dev		----------	
56		4-Nitroaniline	0.226	0.218	3.5	124	-0.23	9.52
57	I	Phenanthrene-d10	1.000	1.000	0.0	141	-0.05	11.15
58		1,2-Diphenylhydrazine	1.017	1.021	-0.4	140	-0.12	9.69
		----------	Amount	Calc.	%Drift		----------	
59		4,6-Dinitro-2-methylpheno	75.000	67.487	10.0	125	-0.10	9.58
		----------	AvgRF	CCRF	%Dev		----------	
60		Diphenylamine	0.749	0.715	4.5	130	-0.12	9.65
61	C	n-Nitrosodiphenylamine	0.749	0.715	4.5	130	-0.12	9.65
62	S	2,4,6-Tribromophenol (SUR	0.135	0.141	-4.4	137	-0.13	9.83
63		4-Bromophenyl-phenylether	0.253	0.245	3.2	130	-0.13	10.30

Continuing Calibration Summary

Job Number: T39423
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ633-CC615
Lab FileID: J13784.D

64		Hexachlorobenzene	0.275	0.263	4.4	129	-0.05	10.43
		----------	Amount	Calc.	%Drift		----------	
65	C	Pentachlorophenol	75.000	70.273	6.3	132	-0.05	10.86
		----------	AvgRF	CCRF	%Dev		----------	
66		Phenanthrene	1.192	1.116	6.4	124	0.05	11.32
67		Anthracene	1.147	1.114	2.9	126	-0.11	11.32
68		Carbazole	0.924	0.918	0.6	127	-0.11	11.68
69		Di-n-butylphthalate	1.431	1.435	-0.3	129	-0.08	12.51
70	C	Fluoranthene	1.080	1.103	-2.1	128	-0.05	13.65
71	I	Chrysene-d12	1.000	1.000	0.0	181	-0.05	16.69
		----------	Amount	Calc.	%Drift		----------	
72		Benzidine	75.000	71.094	5.2	166	-0.07	14.01
		----------	AvgRF	CCRF	%Dev		----------	
73		Pyrene	1.409	1.002	28.9#	130	-0.09	14.11
74	S	Terphenyl-d14	0.955	0.720	24.6	133	-0.08	14.52
75		Butylbenzylphthalate	0.628	0.476	24.2	130	-0.05	15.62
76		Benzo(a)anthracene	1.125	1.011	10.1	158	-0.04	16.66
77		3,3'-Dichlorobenzidine	0.276	0.355	-28.6#	240#	-0.03	16.67
78		Chrysene	0.949	0.800	15.7	145	-0.05	16.75
79		bis(2-Ethylhexyl)phthalat	0.843	0.657	22.1	133	-0.05	16.90
80	I	Perylene-d12	1.000	1.000	0.0	149	-0.05	19.48
		----------	Amount	Calc.	%Drift		----------	
81	C	Di-n-octylphthalate	75.000	74.316	0.9	140	-0.05	18.19
		----------	AvgRF	CCRF	%Dev		----------	
82		Benzo(b)fluoranthene	1.322	1.267	4.2	134	-0.04	18.80
83		Benzo(k)fluoranthene	1.207	1.187	1.7	141	-0.04	18.86
84	C	Benzo(a)pyrene	1.129	1.091	3.4	135	0.05	19.38
85		Indeno(1,2,3-cd)pyrene	0.952	0.762	20.0	104	-0.07	21.55
86		Dibenz(a,h)anthracene	0.790	0.664	15.9	108	-0.08	21.58
87		Benzo(g,h,i)perylene	0.719	0.509	29.2#	93	-0.09	22.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
j13341.D ej615mg.m Tue Oct 13 12:21:38 2009

7.7.11

7

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13765.D
Acq On : 12 Oct 2009 9:11 pm
Operator : sheilac
Sample : t39423-1
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 13 14:06:05 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

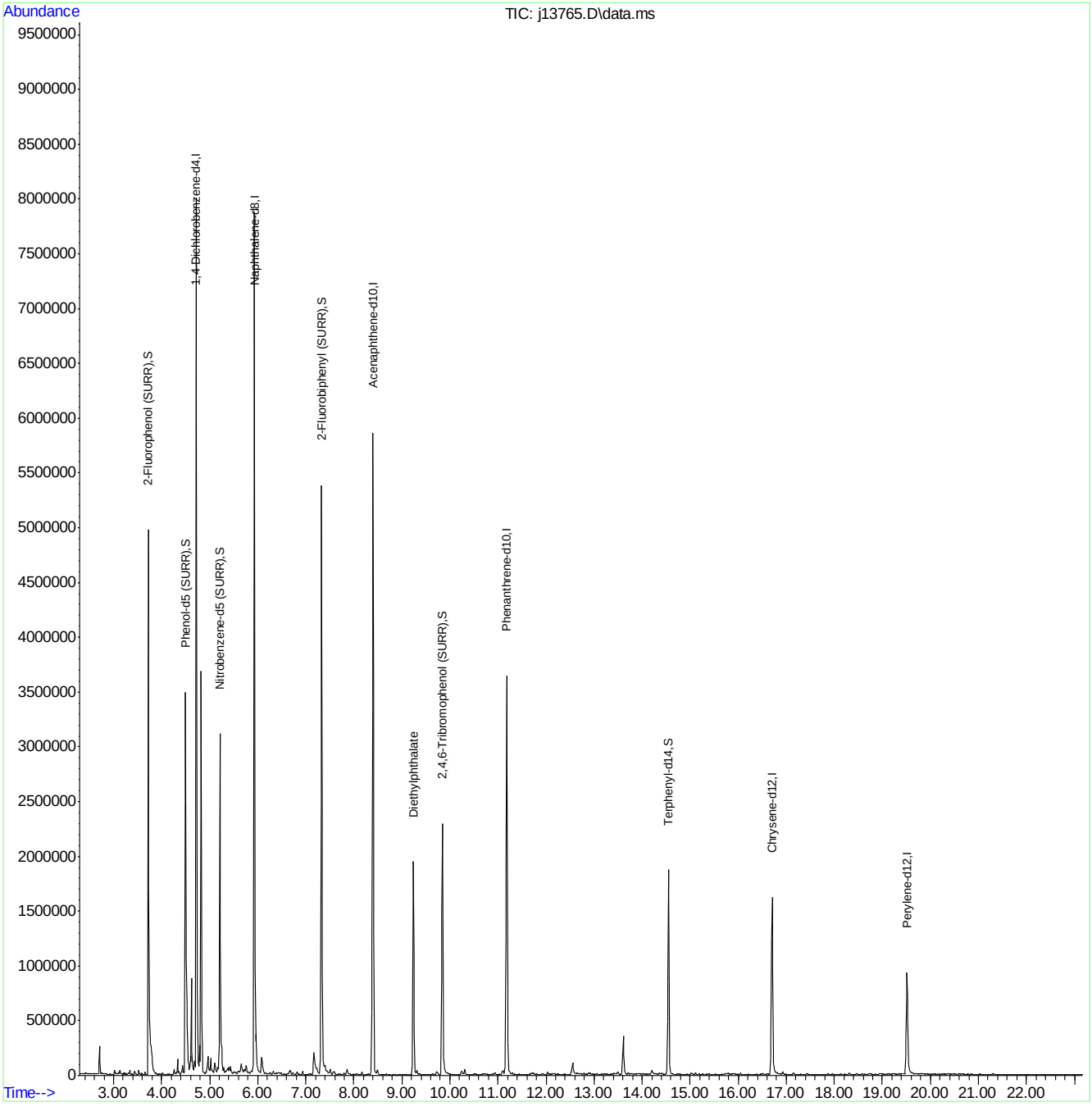
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.720	152	1171437	40.00	ug/ml	0.00
20) Naphthalene-d8	5.929	136	4033812	40.00	ug/ml	-0.02
36) Acenaphthene-d10	8.400	164	2074814	40.00	ug/ml	-0.02
57) Phenanthrene-d10	11.187	188	2301136	40.00	ug/ml	-0.02
71) Chrysene-d12	16.707	240	1197014	40.00	ug/ml	-0.03
80) Perylene-d12	19.515	264	793537	40.00	ug/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	1466804	39.90	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 39.90%			
5) Phenol-d5 (SURR)	4.496	99	1526531	33.22	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 33.22%			
21) Nitrobenzene-d5 (SURR)	5.212	82	1139762	26.94	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery = 53.88%			
40) 2-Fluorobiphenyl (SURR)	7.331	172	2079120	25.00	ug/ml	-0.21
Spiked Amount 50.000	Range 34 - 113		Recovery = 50.00%			
62) 2,4,6-Tribromophenol (...	9.844	330	417281	53.89	ug/ml	-0.12
Spiked Amount 100.000	Range 32 - 128		Recovery = 53.89%			
74) Terphenyl-d14	14.551	244	939949	32.89	ug/ml	-0.05
Spiked Amount 50.000	Range 12 - 145		Recovery = 65.78%			
Target Compounds						Qvalue
53) Diethylphthalate	9.240	149	1019267	14.10	ug/ml	99

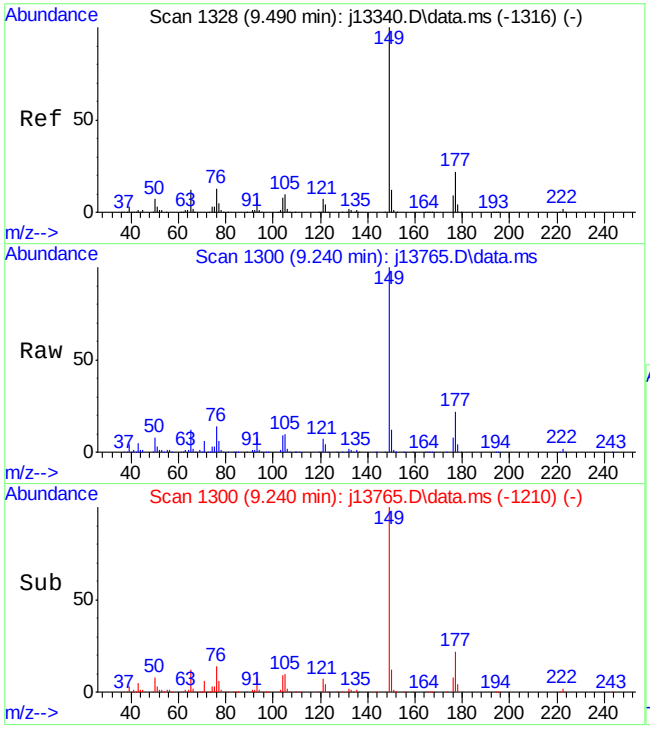
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13765.D
Acq On : 12 Oct 2009 9:11 pm
Operator : sheilac
Sample : t39423-1
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 13 14:06:05 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

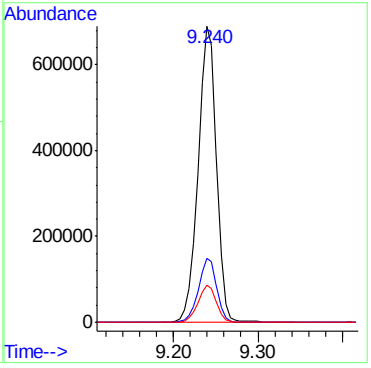




#53
Diethylphthalate
Concen: 14.10 ug/ml
RT: 9.240 min Scan# 1300
Delta R.T. -0.016 min
Lab File: j13765.D
Acq: 12 Oct 2009 9:11 pm

Tgt Ion:149 Resp: 1019267

Ion	Ratio	Lower	Upper
149	100		
177	21.4	2.2	42.2
150	12.4	0.0	32.2



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13765.D
Acq On : 12 Oct 2009 9:11 pm
Operator : sheilac
Sample : t39423-1
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 23000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13765.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.704	75	78	84	rBV	251005	237834	2.54%	0.302%
2	3.720	265	268	289	rBV	4973854	5659213	60.40%	7.192%
3	4.330	378	382	385	rBV	137639	113547	1.21%	0.144%
4	4.437	393	402	405	rBV3	80952	115580	1.23%	0.147%
5	4.496	409	413	428	rVV	3476390	4798854	51.22%	6.098%
6	4.597	428	432	433	rVV2	150910	146825	1.57%	0.187%
7	4.619	433	436	445	rVV	866963	871269	9.30%	1.107%
8	4.688	445	449	451	rVV2	110052	125312	1.34%	0.159%
9	4.720	451	455	465	rVV	7979173	8065017	86.08%	10.249%
10	4.790	465	468	470	rVV	245647	261899	2.80%	0.333%
11	4.822	470	474	482	rVB	3653989	3560768	38.01%	4.525%
12	4.961	494	500	505	rBV2	149797	224867	2.40%	0.286%
13	5.020	508	511	516	rVB	122388	113213	1.21%	0.144%
14	5.106	523	527	534	rBV2	87770	145663	1.55%	0.185%
15	5.212	542	547	553	rBV	3058151	3550697	37.90%	4.512%
16	5.250	553	554	559	rVB	214232	156176	1.67%	0.198%
17	5.651	624	629	637	rBV5	81724	141000	1.50%	0.179%
18	5.929	672	681	686	rBV	7856010	9369015	100.00%	11.906%
19	5.961	686	687	696	rVB	331143	347729	3.71%	0.442%
20	6.079	705	709	721	rVB5	149232	297244	3.17%	0.378%
21	7.165	905	912	933	rBV	196076	605962	6.47%	0.770%
22	7.331	935	943	952	rBV	5365816	7296165	77.88%	9.272%
23	7.395	952	955	962	rVB3	55617	100489	1.07%	0.128%
24	8.400	1132	1143	1155	rBV	5859183	9352163	99.82%	11.885%
25	9.240	1291	1300	1306	rBV	1945560	2864913	30.58%	3.641%
26	9.844	1401	1413	1430	rBV	2296569	3961467	42.28%	5.034%
27	11.187	1653	1664	1680	rVB2	3632518	6563162	70.05%	8.340%
28	12.556	1909	1920	1930	rBV3	105879	215565	2.30%	0.274%
29	13.610	2108	2117	2131	rBV	352001	664380	7.09%	0.844%
30	14.551	2279	2293	2307	rBV	1868021	3276957	34.98%	4.164%
31	16.707	2684	2696	2714	rBV	1618680	3330581	35.55%	4.233%
32	19.515	3212	3221	3241	rBV	923815	2156762	23.02%	2.741%

LSC Area Percent Report

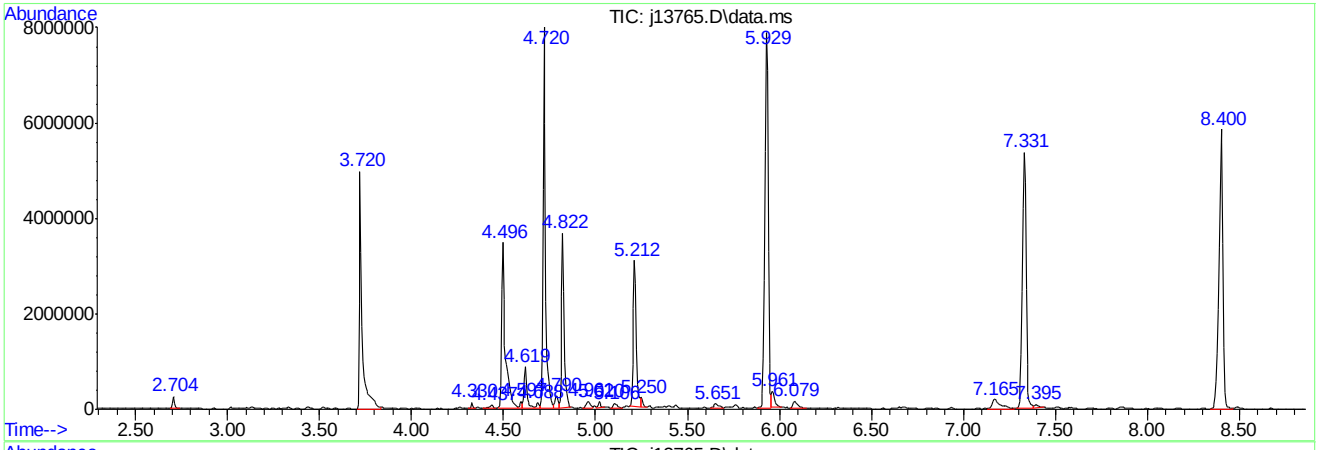
```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13765.D
Acq On    : 12 Oct 2009   9:11 pm
Operator  : sheilac
Sample    : t39423-1
Misc      : op13230,Ej632,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON                            Filtering: 5
Sampling  : 1                              Min Area: 23000 Area counts
Start Thrs: 0.2                           Max Peaks: 100
Stop Thrs : 0                        Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method    : C:\msdchem\1\METHODS\ej615mg.m
Title     :

                      Sum of corrected areas:    78690288
```

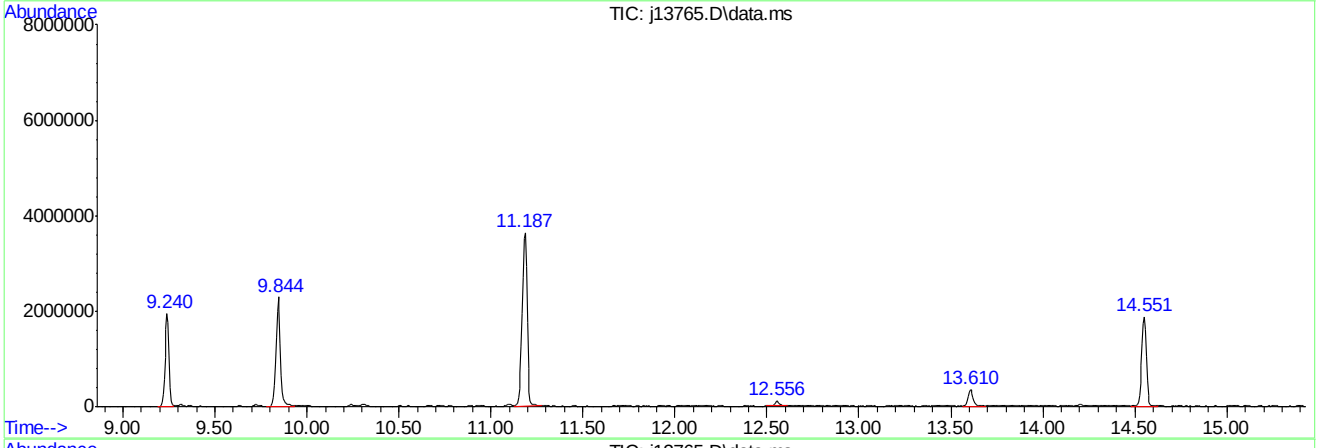
8.1.2

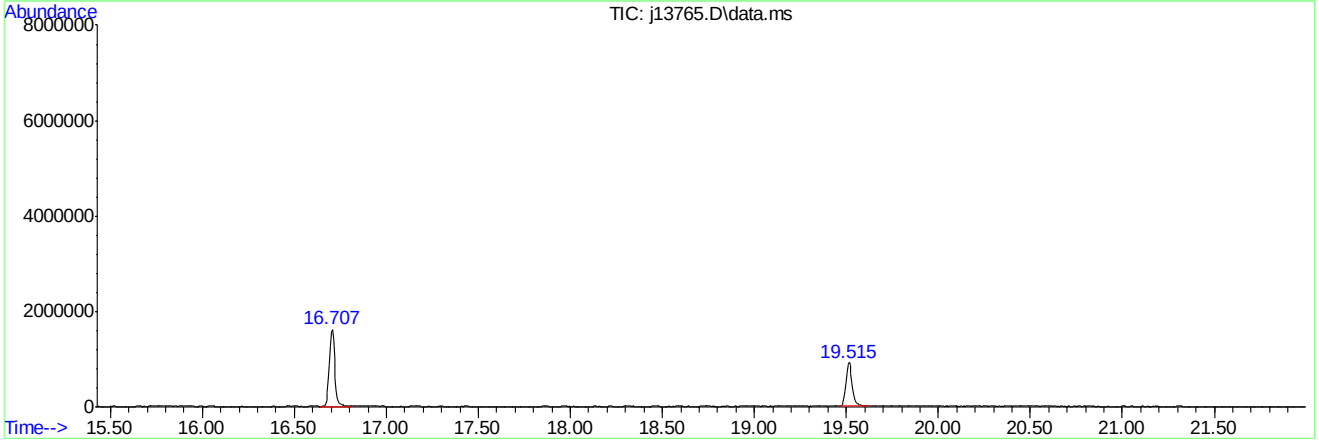
8

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13765.D
Acq On    : 12 Oct 2009   9:11 pm
Operator  : sheilac
Sample    : t39423-1
Misc      : op13230,Ej632,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```







Library Search Compound Report

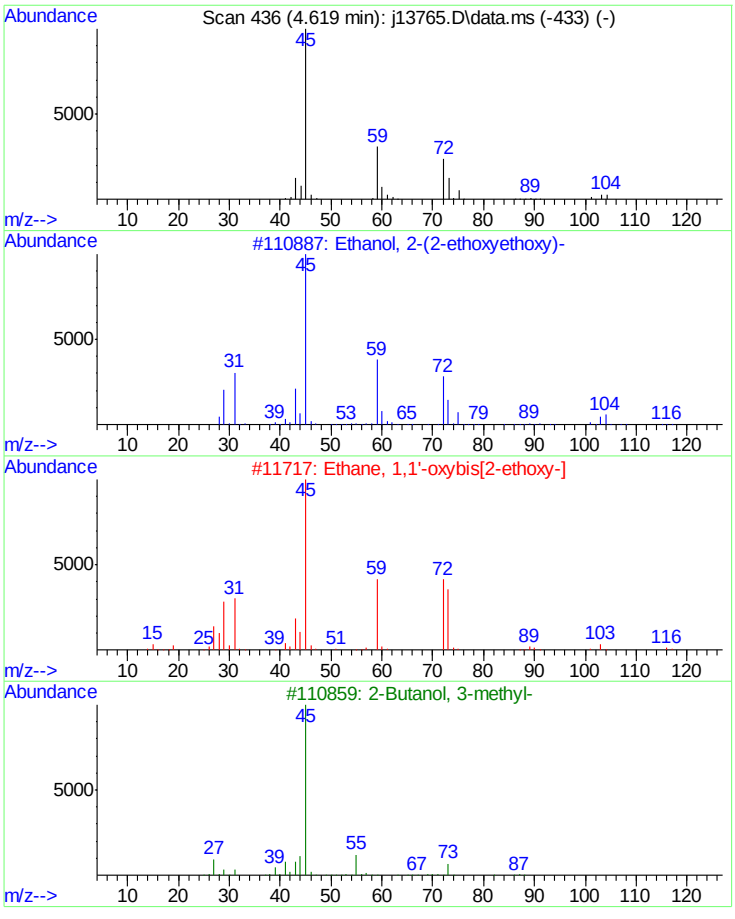
```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13765.D
Acq On    : 12 Oct 2009   9:11 pm
Operator  : sheilac
Sample    : t39423-1
Misc      : op13230,Ej632,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

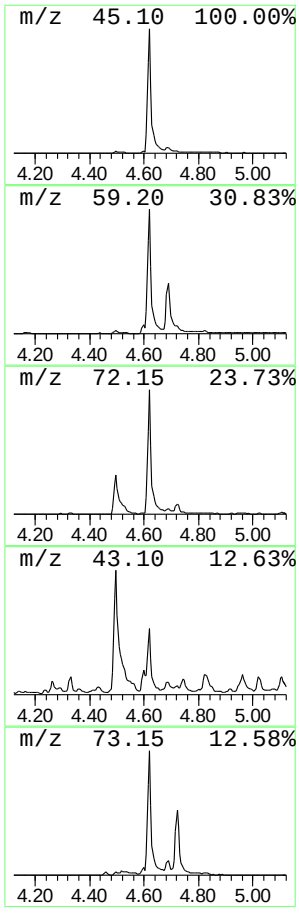
****

Peak Number 1 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.619	4.32 ug/ml	871269	1,4-Dichlorobenzene-d4	4.720

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	78
2	Ethane, 1,1'-oxybis[2-ethoxy-]	162	C8H18O3	000112-36-7	78
3	2-Butanol, 3-methyl-	88	C5H12O	000598-75-4	47
4	2-Propanol, 1-(1-methylethoxy)-	118	C6H14O2	003944-36-3	45
5	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	40





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13765.D
Acq On : 12 Oct 2009 9:11 pm
Operator : sheilac
Sample : t39423-1
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

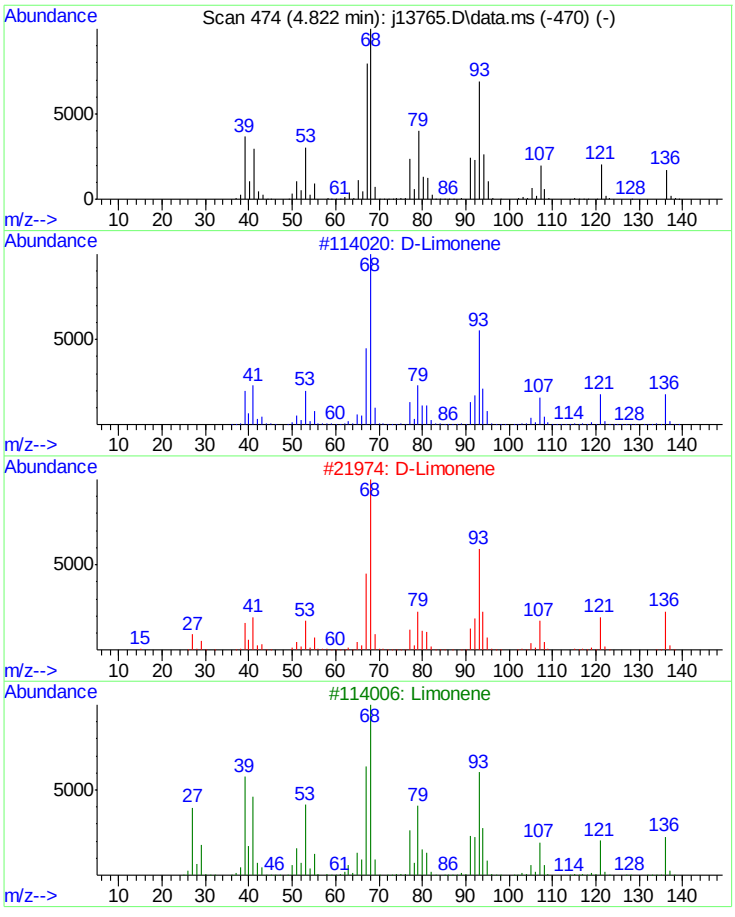
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

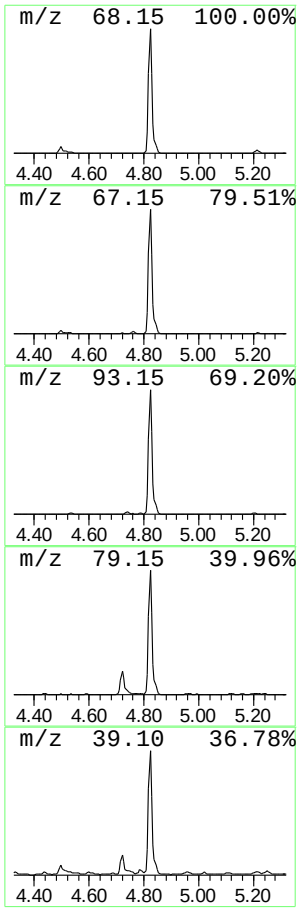
****

Peak Number 2 D-Limonene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.822	17.66 ug/ml	3560770	1,4-Dichlorobenzene-d4	4.720

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	D-Limonene	136	C10H16	005989-27-5	94
2	D-Limonene	136	C10H16	005989-27-5	93
3	Limonene	136	C10H16	000138-86-3	93
4	Limonene	136	C10H16	000138-86-3	89
5	Limonene	136	C10H16	000138-86-3	86





Library Search Compound Report

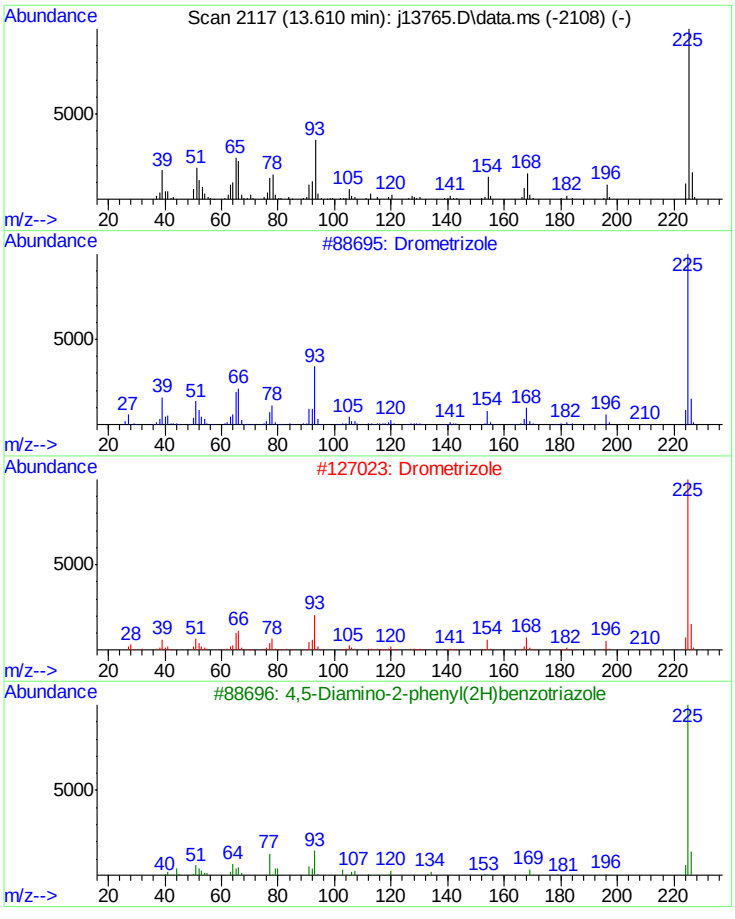
```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13765.D
Acq On    : 12 Oct 2009   9:11 pm
Operator  : sheilac
Sample    : t39423-1
Misc      : op13230,Ej632,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

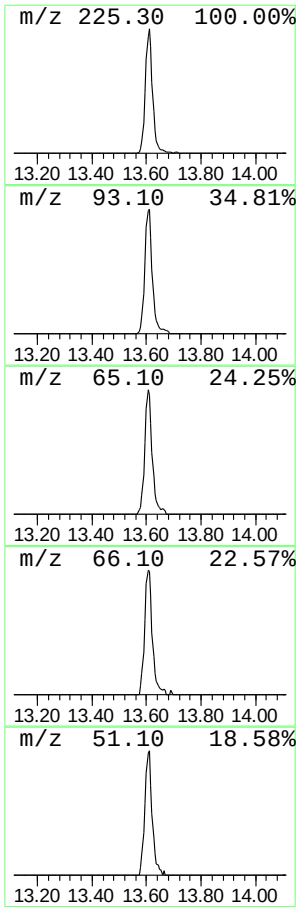
****

Peak Number 3 Drometrizole Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.610	4.05 ug/ml	664380	Phenanthrene-d10	11.187

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Drometrizole	225	C13H11N3O	002440-22-4	98
2	Drometrizole	225	C13H11N3O	002440-22-4	98
3	4,5-Diamino-2-phenyl(2H)benzotri...	225	C12H11N5	1000110-66-4	38
4	Phenazine, 2-amino-8-methoxy-	225	C13H11N3O	018450-21-0	22
5	Indolo[2,3-a]quinolizine, 1,2,3,...	226	C15H18N2	004802-79-3	13





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13765.D
Acq On : 12 Oct 2009 9:11 pm
Operator : sheilac
Sample : t39423-1
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethanol, 2-(2-e...	4.619	4.3	ug/ml	871269	1	4.720	8065020	40.0
D-Limonene	4.822	17.7	ug/ml	3560770	1	4.720	8065020	40.0
Drometrizole	13.610	4.0	ug/ml	664380	4	11.187	6563160	40.0

8.1.2

8

ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13766.D
Acq On : 12 Oct 2009 9:40 pm
Operator : sheilac
Sample : t39423-2
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 13 14:07:04 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

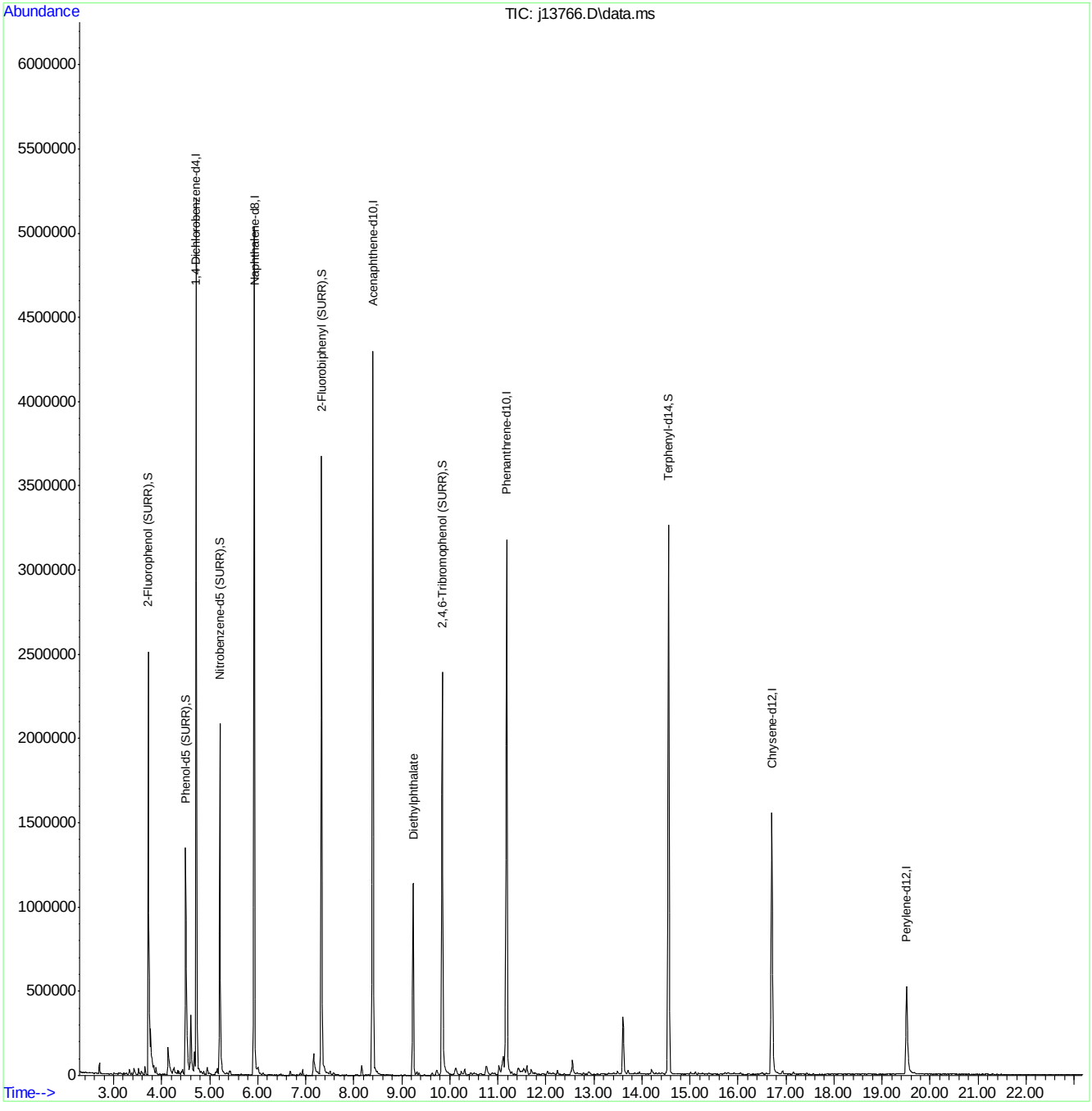
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.721	152	720934	40.00	ug/ml	0.00
20) Naphthalene-d8	5.929	136	2611846	40.00	ug/ml	-0.02
36) Acenaphthene-d10	8.400	164	1498177	40.00	ug/ml	-0.02
57) Phenanthrene-d10	11.182	188	2057668	40.00	ug/ml	-0.02
71) Chrysene-d12	16.707	240	1205175	40.00	ug/ml	-0.03
80) Perylene-d12	19.510	264	502471	40.00	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	824631	36.45	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 36.45%			
5) Phenol-d5 (SURR)	4.501	99	662963	23.45	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 23.45%			
21) Nitrobenzene-d5 (SURR)	5.213	82	766455	27.98	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery = 55.96%			
40) 2-Fluorobiphenyl (SURR)	7.331	172	1406592	23.48	ug/ml	-0.21
Spiked Amount 50.000	Range 34 - 113		Recovery = 46.96%			
62) 2,4,6-Tribromophenol (...	9.845	330	436787	63.09	ug/ml	-0.12
Spiked Amount 100.000	Range 32 - 128		Recovery = 63.09%			
74) Terphenyl-d14	14.557	244	1692480	58.81	ug/ml	-0.04
Spiked Amount 50.000	Range 12 - 145		Recovery = 117.62%			
Target Compounds						Qvalue
53) Diethylphthalate	9.240	149	597061	11.44	ug/ml	99

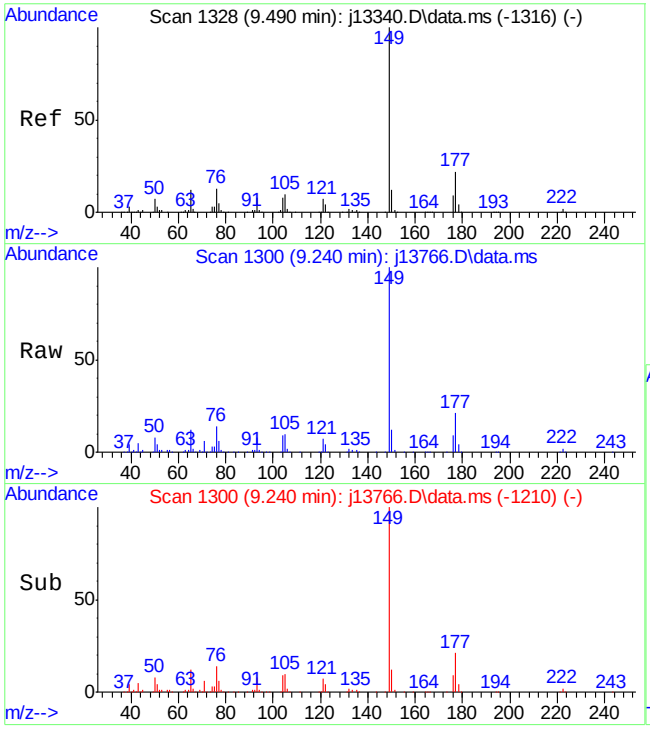
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13766.D
Acq On : 12 Oct 2009 9:40 pm
Operator : sheilac
Sample : t39423-2
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 13 14:07:04 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

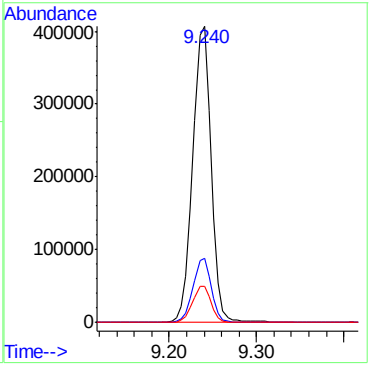




#53
Diethylphthalate
Concen: 11.44 ug/ml
RT: 9.240 min Scan# 1300
Delta R.T. -0.016 min
Lab File: j13766.D
Acq: 12 Oct 2009 9:40 pm

Tgt Ion:149 Resp: 597061

Ion	Ratio	Lower	Upper
149	100		
177	21.2	2.2	42.2
150	12.2	0.0	32.2



8.1.3

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13766.D
Acq On : 12 Oct 2009 9:40 pm
Operator : sheilac
Sample : t39423-2
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 23000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13766.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.720	265	268	276	rBV	2509588	2887772	43.25%	5.211%
2	3.768	276	277	288	rVB	233192	320424	4.80%	0.578%
3	4.138	343	346	362	rBV	163990	360163	5.39%	0.650%
4	4.501	410	414	428	rBV	1336070	2060857	30.86%	3.719%
5	4.614	432	435	445	rVB	332970	345051	5.17%	0.623%
6	4.683	445	448	451	rBV	110732	111068	1.66%	0.200%
7	4.721	451	455	464	rVB	5169893	4804155	71.95%	8.668%
8	5.213	542	547	560	rBV	2077673	2421088	36.26%	4.368%
9	5.929	674	681	690	rBV	5037234	6056004	90.69%	10.927%
10	7.165	906	912	935	rBV	128030	367249	5.50%	0.663%
11	7.331	935	943	952	rBV	3666107	4903356	73.43%	8.847%
12	8.165	1094	1099	1107	rBV	61080	90789	1.36%	0.164%
13	8.400	1132	1143	1149	rBV	4299243	6677374	100.00%	12.048%
14	9.240	1292	1300	1307	rBV	1139504	1684256	25.22%	3.039%
15	9.727	1383	1391	1400	rBV6	28689	67531	1.01%	0.122%
16	9.845	1404	1413	1442	rVV	2388237	4172830	62.49%	7.529%
17	10.123	1458	1465	1481	rVB5	42833	122776	1.84%	0.222%
18	10.759	1577	1584	1600	rBV2	52214	147271	2.21%	0.266%
19	11.027	1625	1634	1641	rBV	57514	122079	1.83%	0.220%
20	11.118	1641	1651	1654	rVV2	106471	279177	4.18%	0.504%
21	11.182	1654	1663	1680	rVB2	3170676	5892861	88.25%	10.633%
22	11.428	1702	1709	1716	rBV4	35770	104945	1.57%	0.189%
23	11.604	1737	1742	1749	rVB2	50597	88534	1.33%	0.160%
24	12.556	1909	1920	1934	rBV3	86176	185078	2.77%	0.334%
25	13.605	2109	2116	2125	rBV	342845	640377	9.59%	1.155%
26	14.557	2279	2294	2311	rBV2	3258499	5903247	88.41%	10.652%
27	16.707	2686	2696	2715	rBV	1551559	3287351	49.23%	5.932%
28	19.510	3212	3220	3242	rBV	519818	1317867	19.74%	2.378%

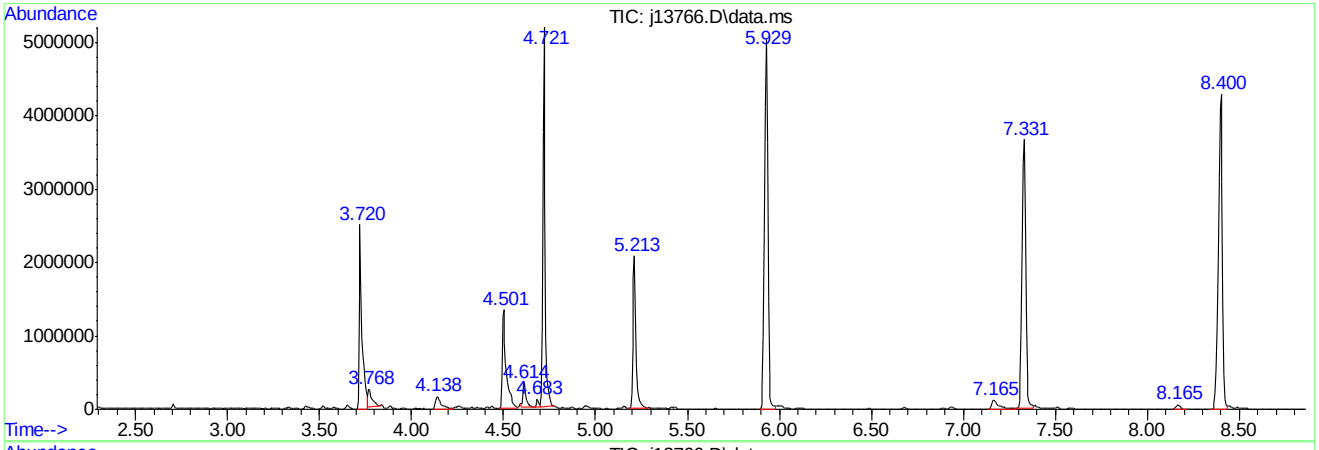
Sum of corrected areas: 55421530

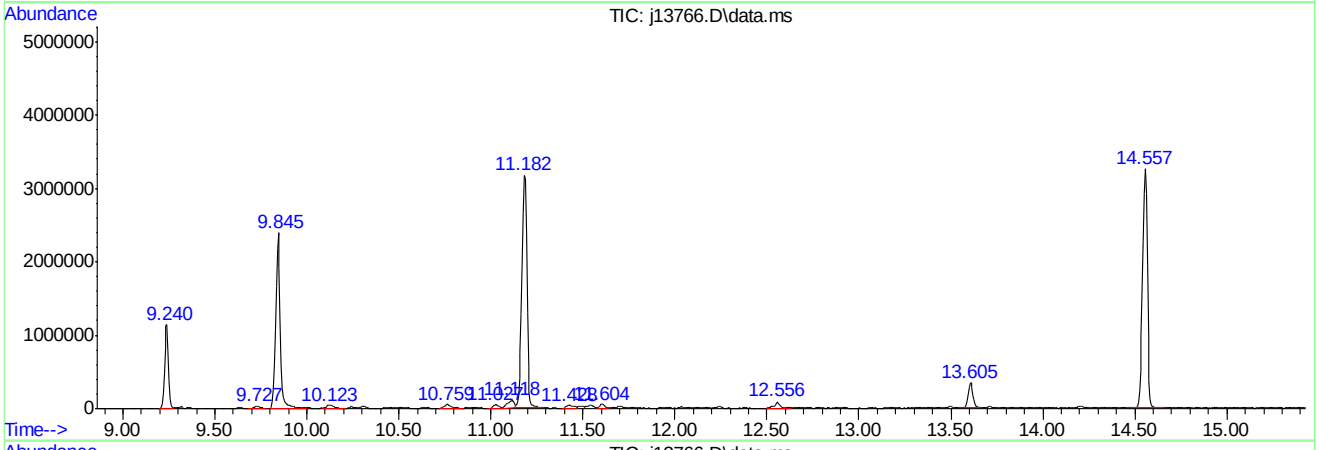
LSC Report - Integrated Chromatogram

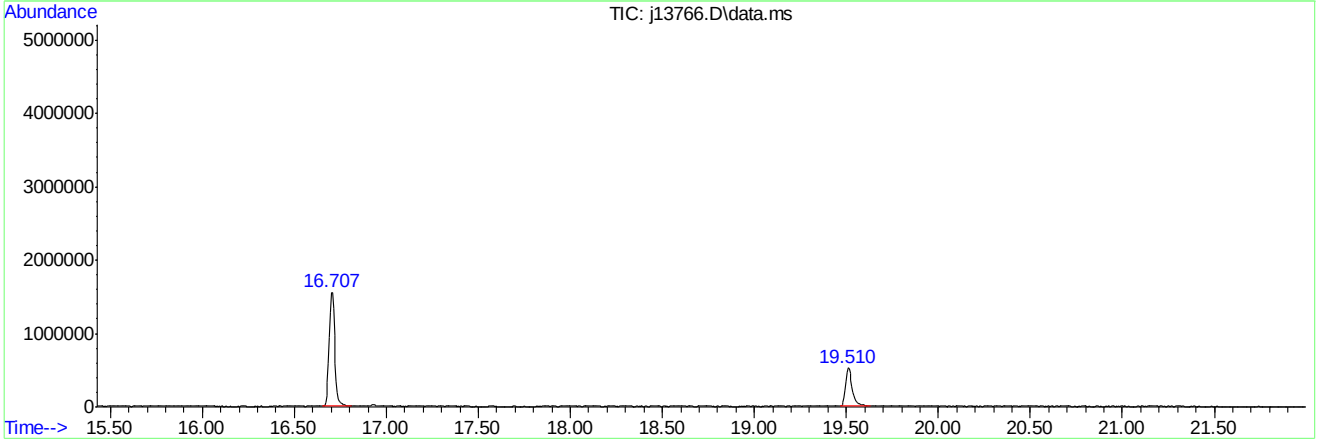
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13766.D
Acq On : 12 Oct 2009 9:40 pm
Operator : sheilac
Sample : t39423-2
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

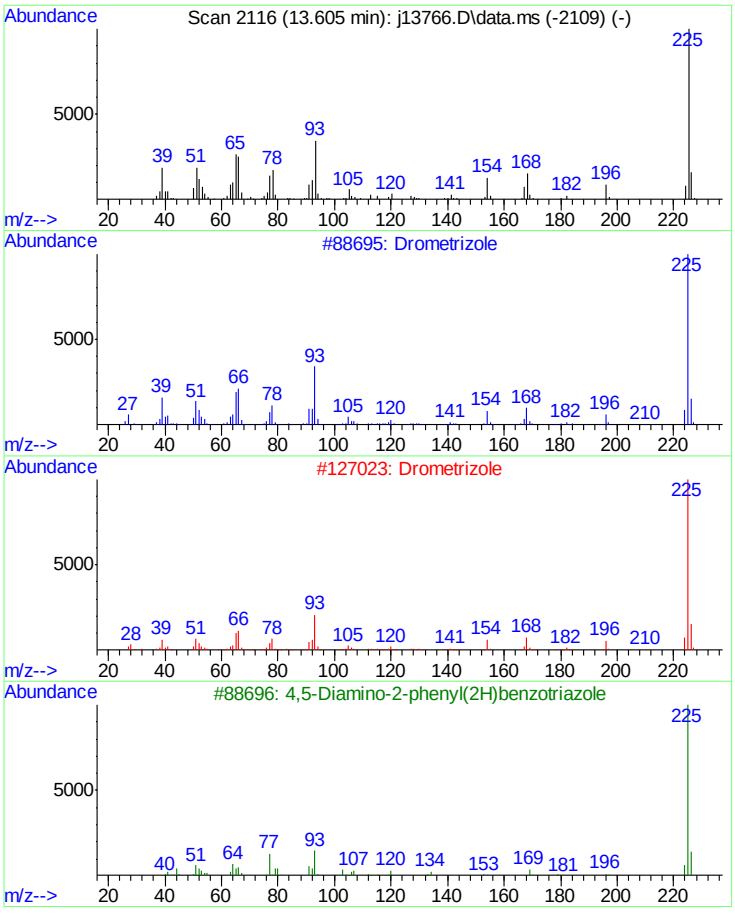
```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13766.D
Acq On    : 12 Oct 2009   9:40 pm
Operator  : sheilac
Sample    : t39423-2
Misc      : op13230,Ej632,1000,,,1,1,water
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

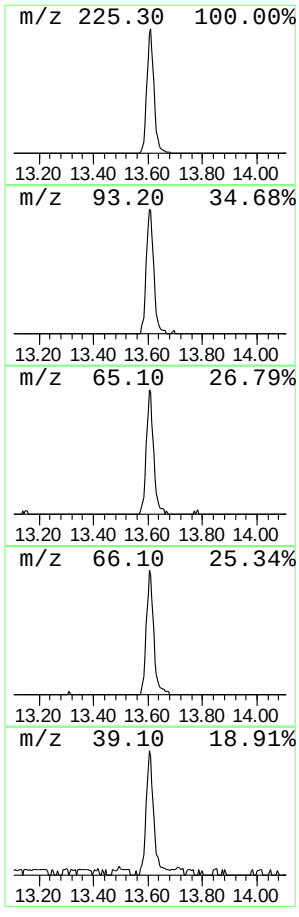
****

Peak Number 1 Drometrizole — Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.605	4.35 ug/ml	640377	Phenanthrene-d10	11.182

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Drometrizole	225	C13H11N3O	002440-22-4	98
2	Drometrizole	225	C13H11N3O	002440-22-4	97
3	4,5-Diamino-2-phenyl(2H)benzotri...	225	C12H11N5	1000110-66-4	38
4	Phenazine, 2-amino-8-methoxy-	225	C13H11N3O	018450-21-0	12
5	2(1H)-Quinolinone, 2-(2-furyl)-4...	225	C14H11NO2	1000164-22-1	12





Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\ej632\
  Data File : j13766.D
  Acq On    : 12 Oct 2009   9:40 pm
  Operator  : sheilac
  Sample    : t39423-2
  Misc      : op13230,Ej632,1000,,,1,1,water
  ALS Vial  : 12   Sample Multiplier: 1

  Quant Method : C:\msdchem\1\METHODS\ej615mg.m
  Quant Title  :

  TIC Library   : C:\Database\NIST98.L
  TIC Integration Parameters: LSCINT.P
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Drometrizole	13.605	4.3	ug/ml	640377	4	11.182	5892860	40.0

8.1.4

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13767.D
Acq On : 12 Oct 2009 10:09 pm
Operator : sheilac
Sample : t39423-3
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 13 14:07:37 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

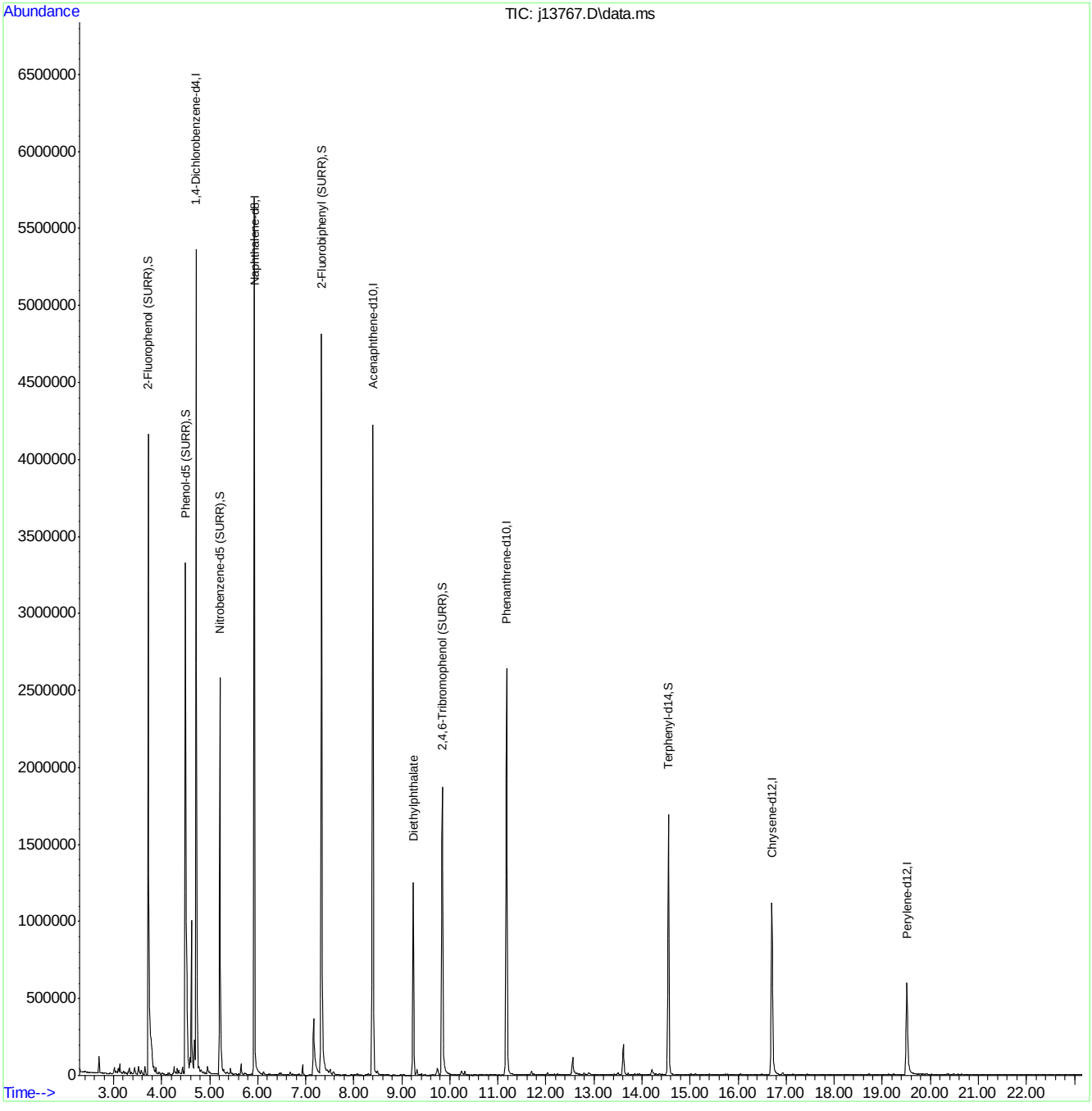
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.721	152	824738	40.00	ug/ml	0.00
20) Naphthalene-d8	5.929	136	2871512	40.00	ug/ml	-0.02
36) Acenaphthene-d10	8.400	164	1478178	40.00	ug/ml	-0.02
57) Phenanthrene-d10	11.182	188	1657861	40.00	ug/ml	-0.02
71) Chrysene-d12	16.701	240	880770	40.00	ug/ml	-0.03
80) Perylene-d12	19.510	264	551291	40.00	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	1322570	51.10	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 51.10%			
5) Phenol-d5 (SURR)	4.496	99	1546044	47.79	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 47.79%			
21) Nitrobenzene-d5 (SURR)	5.213	82	964199	32.02	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery = 64.04%			
40) 2-Fluorobiphenyl (SURR)	7.331	172	1679832	28.25	ug/ml	-0.21
Spiked Amount 50.000	Range 34 - 113		Recovery = 56.50%			
62) 2,4,6-Tribromophenol (...	9.845	330	354765	63.60	ug/ml	-0.12
Spiked Amount 100.000	Range 32 - 128		Recovery = 63.60%			
74) Terphenyl-d14	14.551	244	873080	41.51	ug/ml	-0.05
Spiked Amount 50.000	Range 12 - 145		Recovery = 83.02%			
Target Compounds						Qvalue
53) Diethylphthalate	9.240	149	614720	11.94	ug/ml	99

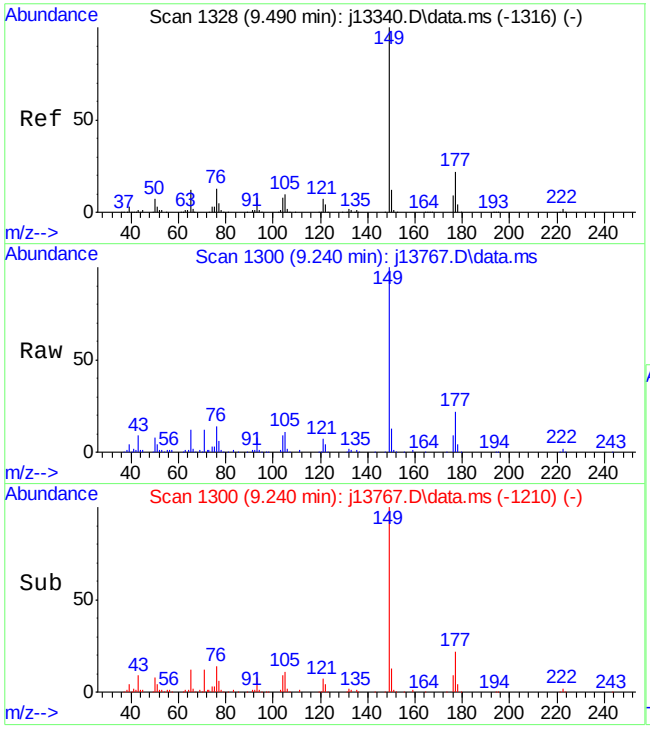
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13767.D
Acq On : 12 Oct 2009 10:09 pm
Operator : sheilac
Sample : t39423-3
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 13 14:07:37 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

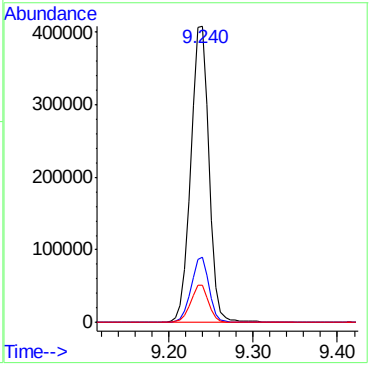




#53
Diethylphthalate
Concen: 11.94 ug/ml
RT: 9.240 min Scan# 1300
Delta R.T. -0.016 min
Lab File: j13767.D
Acq: 12 Oct 2009 10:09 pm

Tgt Ion:149 Resp: 614720

Ion	Ratio	Lower	Upper
149	100		
177	21.4	2.2	42.2
150	12.4	0.0	32.2



8.1.5

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13767.D
Acq On : 12 Oct 2009 10:09 pm
Operator : sheilac
Sample : t39423-3
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 23000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13767.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.699	73	77	81	rBV	109655	95111	1.42%	0.163%
2	3.432	210	214	223	rVB	45002	68380	1.02%	0.117%
3	3.720	265	268	288	rBV	4157261	5101215	75.90%	8.724%
4	4.496	409	413	428	rBV	3311912	4783450	71.17%	8.180%
5	4.592	428	431	433	rVV2	91857	101730	1.51%	0.174%
6	4.619	433	436	445	rVV	973147	977479	14.54%	1.672%
7	4.683	445	448	451	rVV	193117	198731	2.96%	0.340%
8	4.721	451	455	463	rVB	5318312	5511205	82.00%	9.425%
9	5.213	542	547	559	rBV	2568888	3075960	45.77%	5.260%
10	5.651	624	629	639	rVB5	72909	90217	1.34%	0.154%
11	5.929	674	681	697	rBV	5690808	6721091	100.00%	11.494%
12	6.935	863	869	879	rBV	67607	81131	1.21%	0.139%
13	7.165	906	912	934	rBV	365743	893179	13.29%	1.527%
14	7.331	935	943	960	rBV	4801603	6579861	97.90%	11.252%
15	8.395	1132	1142	1156	rBV	4222957	6633316	98.69%	11.344%
16	9.235	1291	1299	1308	rBV	1249874	1852363	27.56%	3.168%
17	9.743	1382	1394	1400	rBV4	45795	93647	1.39%	0.160%
18	9.839	1404	1412	1430	rBV	1869847	3363523	50.04%	5.752%
19	11.182	1651	1663	1679	rBV2	2640021	4709067	70.06%	8.053%
20	12.556	1906	1920	1932	rBV3	113672	244485	3.64%	0.418%
21	13.610	2109	2117	2131	rVB	194762	371414	5.53%	0.635%
22	14.204	2221	2228	2239	rBV3	34874	72375	1.08%	0.124%
23	14.551	2279	2293	2309	rBV	1691480	3020652	44.94%	5.166%
24	16.701	2686	2695	2723	rBV	1119111	2384721	35.48%	4.078%
25	19.510	3212	3220	3244	rBV	593112	1451794	21.60%	2.483%

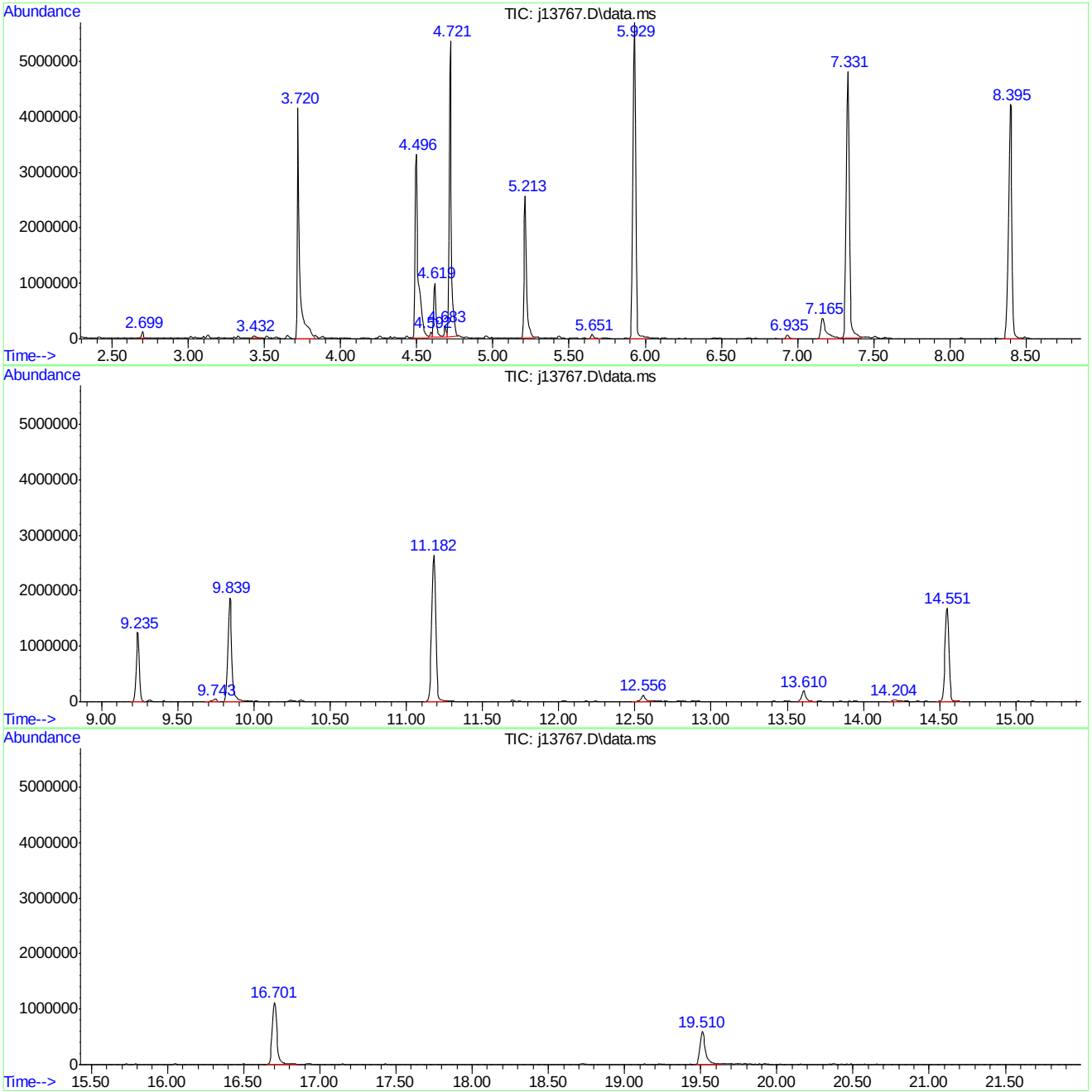
Sum of corrected areas: 58476097

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13767.D
Acq On : 12 Oct 2009 10:09 pm
Operator : sheilac
Sample : t39423-3
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

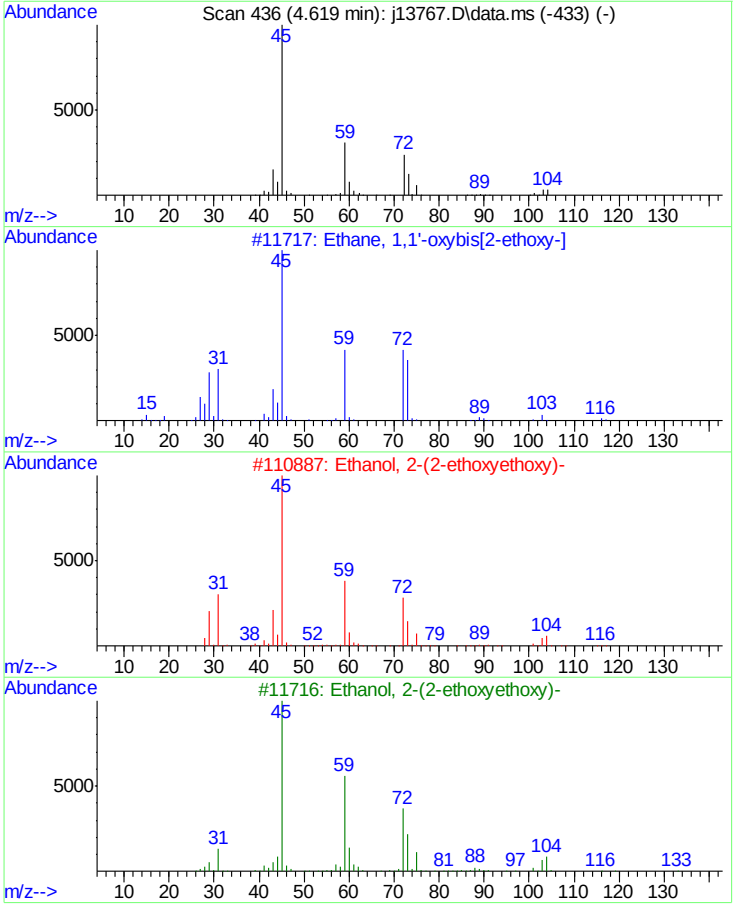
```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13767.D
Acq On    : 12 Oct 2009  10:09 pm
Operator  : sheilac
Sample    : t39423-3
Misc      : op13230,Ej632,1000,,,1,1,water
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

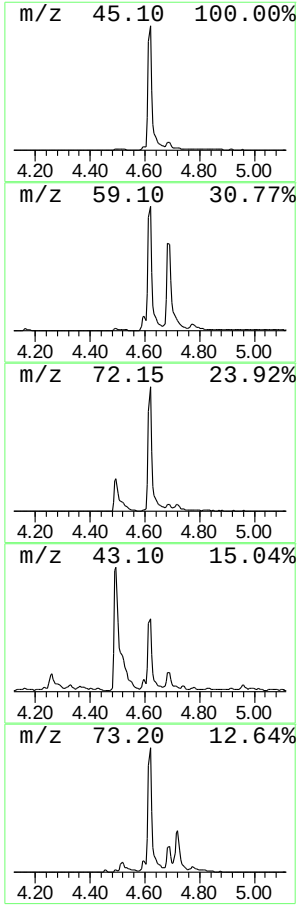
****

Peak Number 1 Ethane, 1,1'-oxybis[2-ethoxy-] Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.619	7.09 ug/ml	977479	1,4-Dichlorobenzene-d4	4.721

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1'-oxybis[2-ethoxy-]	162	C8H18O3	000112-36-7	78
2	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	78
3	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	64
4	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	53
5	2-Butanol, 3-methyl-	88	C5H12O	000598-75-4	47





Library Search Compound Report

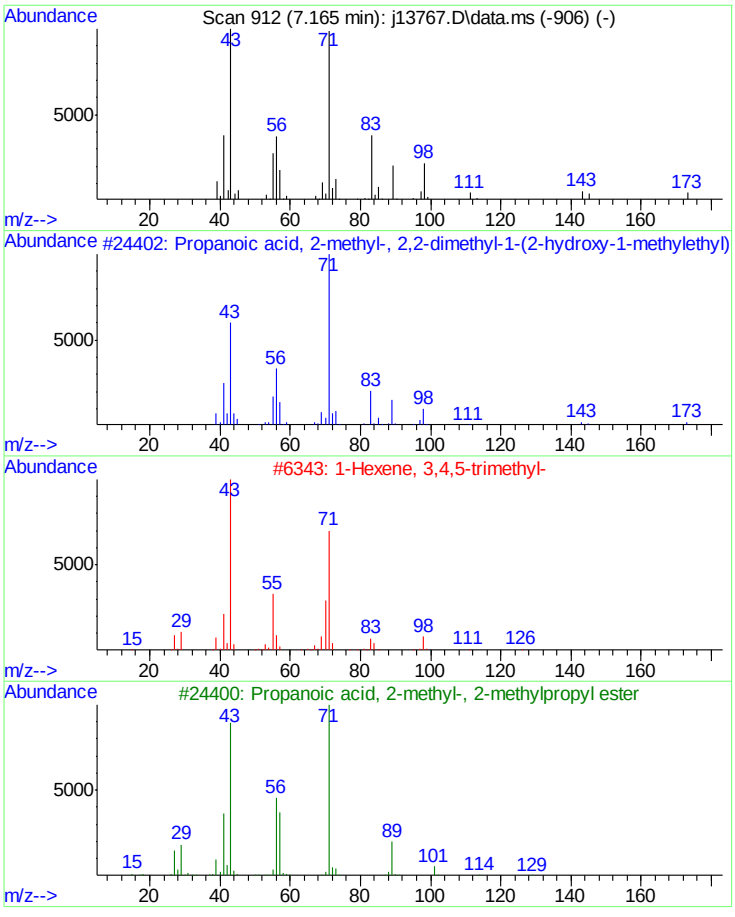
```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13767.D
Acq On    : 12 Oct 2009  10:09 pm
Operator  : sheilac
Sample    : t39423-3
Misc      : op13230,Ej632,1000,,,1,1,water
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

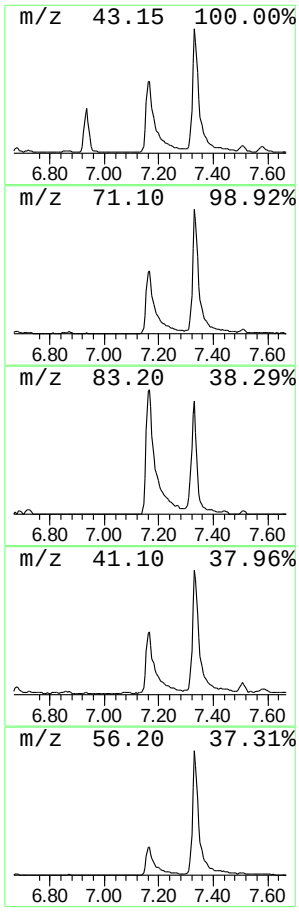
****

Peak Number 2 Propanoic acid, 2-methyl-, ... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.165	5.39 ug/ml	893179	Acenaphthene-d10	8.400

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, 2-methyl-, 2,2-d...	216	C12H24O3	074367-33-2	64
2	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	43
3	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	43
4	Propanoic acid, 2-methyl-, butyl...	144	C8H16O2	000097-87-0	37
5	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	35





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13767.D
Acq On : 12 Oct 2009 10:09 pm
Operator : sheilac
Sample : t39423-3
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethane, 1,1'-ox...	4.619	7.1	ug/ml	977479	1	4.721	5511210	40.0
Propanoic acid,...	7.165	5.4	ug/ml	893179	3	8.400	6633320	40.0

8.1.6

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13768.D
Acq On : 12 Oct 2009 10:38 pm
Operator : sheilac
Sample : t39423-4
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 13 14:08:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

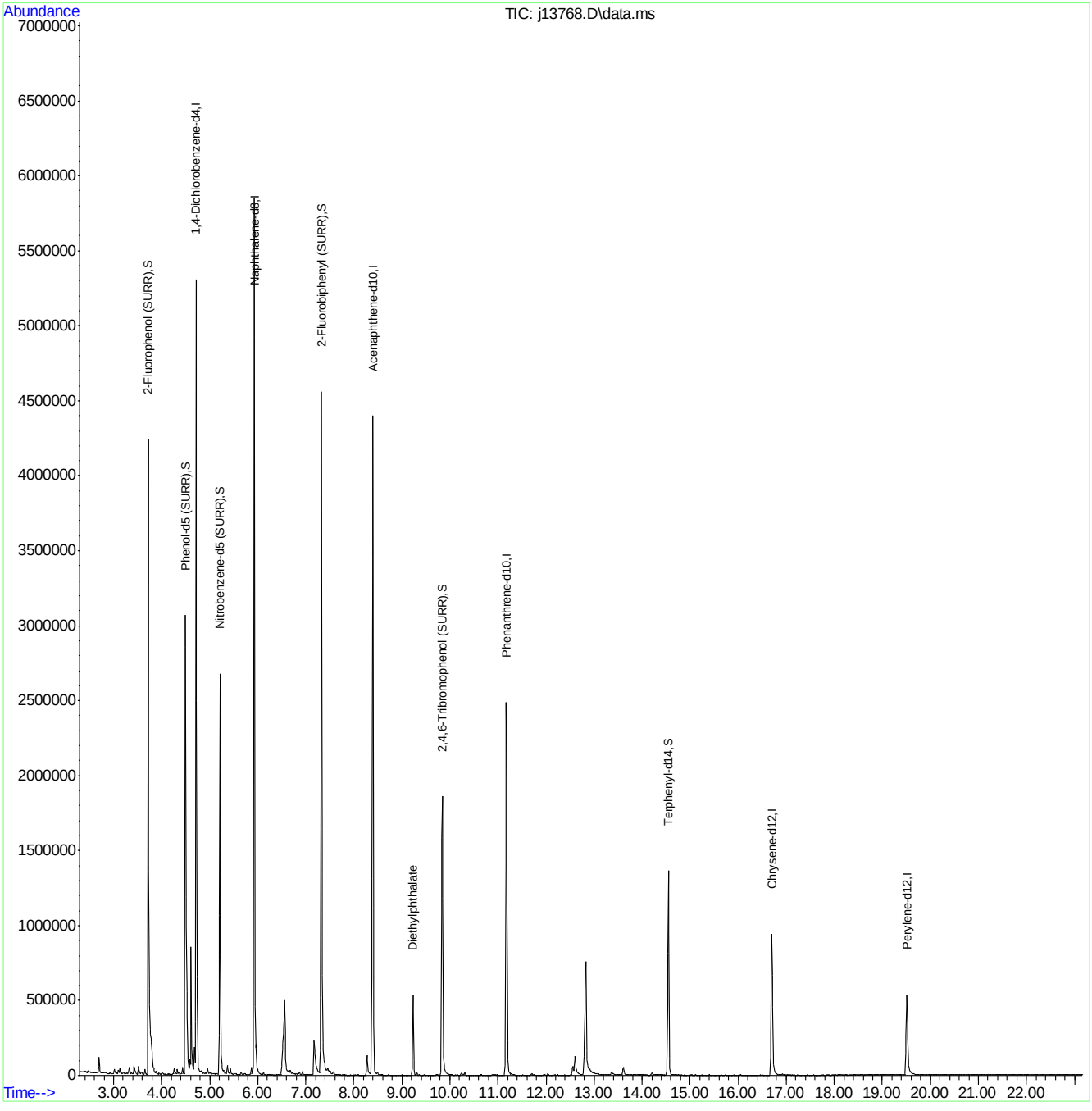
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.721	152	844557	40.00	ug/ml	0.00
20) Naphthalene-d8	5.929	136	2943084	40.00	ug/ml	-0.02
36) Acenaphthene-d10	8.395	164	1504162	40.00	ug/ml	-0.02
57) Phenanthrene-d10	11.176	188	1603093	40.00	ug/ml	-0.03
71) Chrysene-d12	16.701	240	754409	40.00	ug/ml	-0.03
80) Perylene-d12	19.510	264	500570	40.00	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	1331196	50.23	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 50.23%			
5) Phenol-d5 (SURR)	4.496	99	1457504	44.00	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 44.00%			
21) Nitrobenzene-d5 (SURR)	5.213	82	1011676	32.78	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery = 65.56%			
40) 2-Fluorobiphenyl (SURR)	7.331	172	1779767	29.38	ug/ml	-0.21
Spiked Amount 50.000	Range 34 - 113		Recovery = 58.76%			
62) 2,4,6-Tribromophenol (...	9.839	330	339674	62.97	ug/ml	-0.12
Spiked Amount 100.000	Range 32 - 128		Recovery = 62.97%			
74) Terphenyl-d14	14.546	244	698591	38.78	ug/ml	-0.05
Spiked Amount 50.000	Range 12 - 145		Recovery = 77.56%			
Target Compounds						Qvalue
53) Diethylphthalate	9.235	149	224441	4.28	ug/ml	99

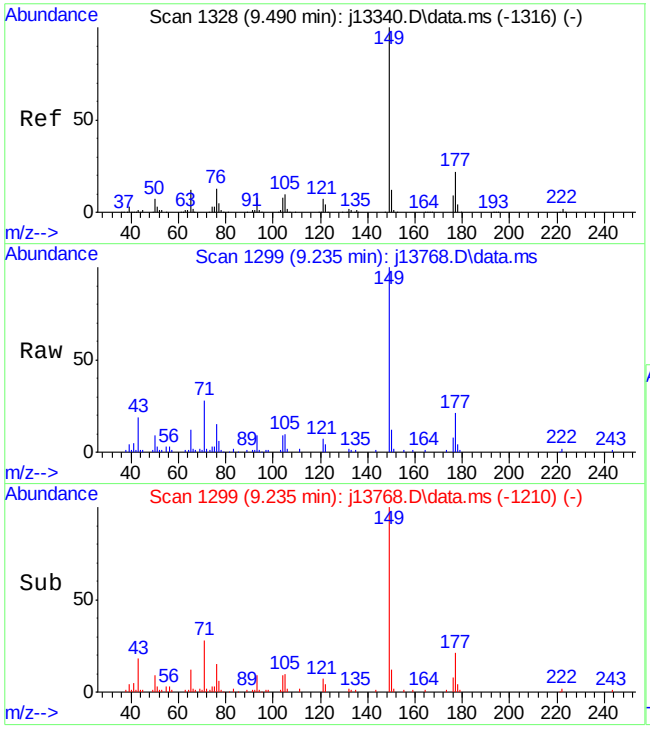
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13768.D
Acq On : 12 Oct 2009 10:38 pm
Operator : sheilac
Sample : t39423-4
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 13 14:08:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

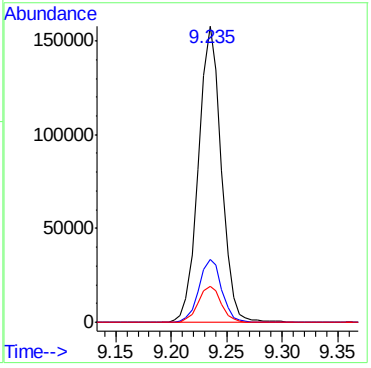




#53
Diethylphthalate
Concen: 4.28 ug/ml
RT: 9.235 min Scan# 1299
Delta R.T. -0.021 min
Lab File: j13768.D
Acq: 12 Oct 2009 10:38 pm

Tgt Ion:149 Resp: 224441

Ion	Ratio	Lower	Upper
149	100		
177	21.2	2.2	42.2
150	12.2	0.0	32.2



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13768.D
Acq On : 12 Oct 2009 10:38 pm
Operator : sheilac
Sample : t39423-4
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 23000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13768.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.699	74	77	83	rVB	102658	93549	1.37%	0.158%
2	3.426	210	213	226	rVB	54023	83498	1.23%	0.141%
3	3.720	265	268	288	rBV	4236589	5122490	75.18%	8.659%
4	4.496	409	413	428	rBV	3057220	4499942	66.04%	7.607%
5	4.592	428	431	433	rVV2	85182	86121	1.26%	0.146%
6	4.614	433	435	445	rVV	826485	822501	12.07%	1.390%
7	4.683	445	448	451	rVV	152340	153987	2.26%	0.260%
8	4.721	451	455	464	rVB	5265754	5657733	83.03%	9.564%
9	5.213	542	547	559	rBV	2668036	3158094	46.35%	5.338%
10	5.929	674	681	686	rVV	5847707	6814024	100.00%	11.518%
11	5.961	686	687	707	rVB	203392	278472	4.09%	0.471%
12	6.566	783	800	817	rBV	498200	1618636	23.75%	2.736%
13	7.176	908	914	935	rBV	228915	630296	9.25%	1.065%
14	7.331	935	943	961	rBV	4545186	6477154	95.06%	10.949%
15	8.277	1114	1120	1130	rBV	130059	255588	3.75%	0.432%
16	8.395	1132	1142	1155	rVB	4389479	6754651	99.13%	11.418%
17	9.235	1289	1299	1306	rBV	537730	751551	11.03%	1.270%
18	9.839	1404	1412	1430	rBV	1858722	3219013	47.24%	5.441%
19	11.176	1652	1662	1678	rBV2	2490355	4548433	66.75%	7.688%
20	12.556	1907	1920	1924	rBV4	56974	108796	1.60%	0.184%
21	12.604	1924	1929	1944	rVB	122364	264895	3.89%	0.448%
22	12.829	1956	1971	1992	rBV	757864	1923593	28.23%	3.252%
23	13.610	2110	2117	2125	rBV2	53904	105836	1.55%	0.179%
24	14.546	2284	2292	2312	rVB2	1364956	2381149	34.94%	4.025%
25	16.701	2686	2695	2717	rBV	944252	2024112	29.71%	3.421%
26	19.510	3211	3220	3237	rBV	536552	1324841	19.44%	2.239%

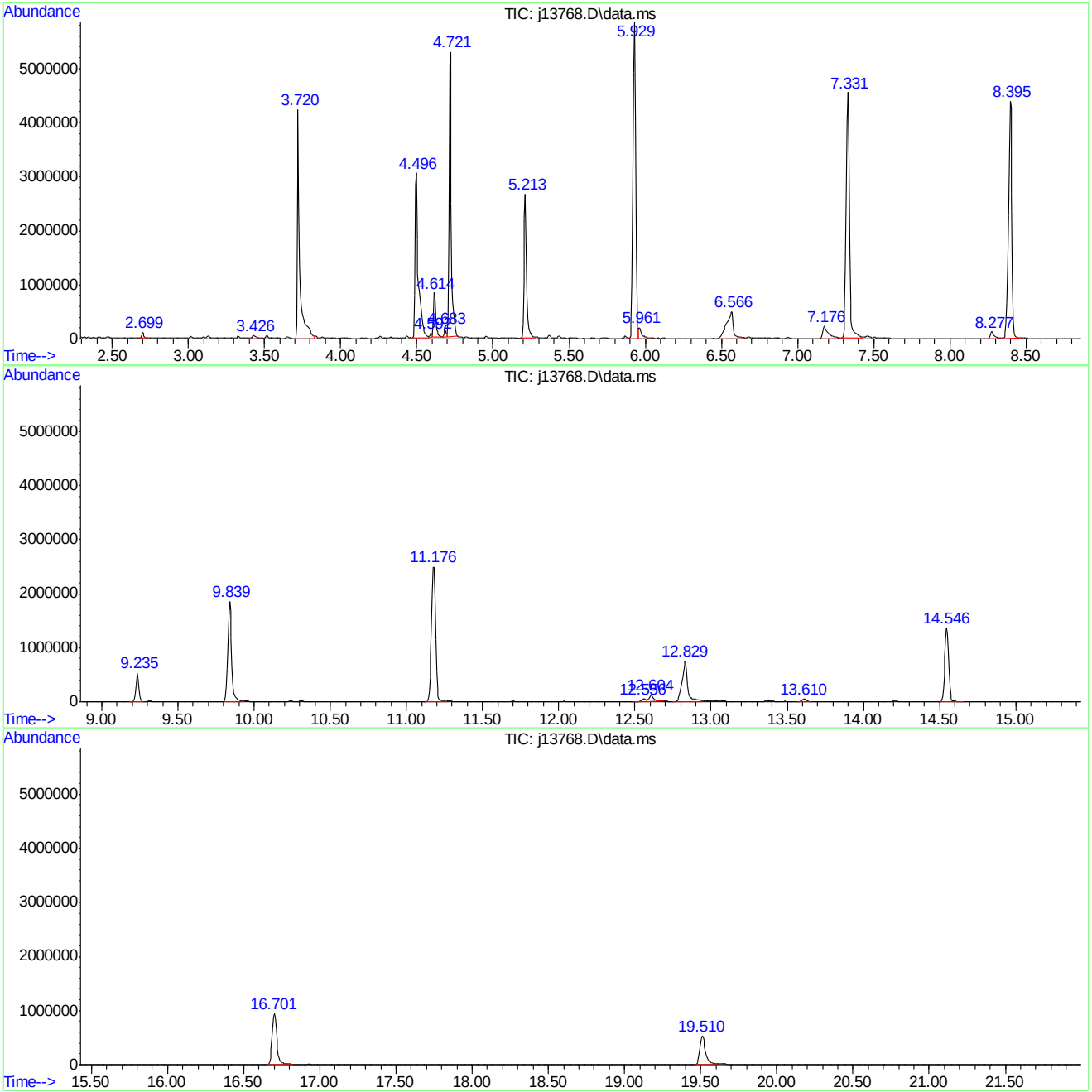
Sum of corrected areas: 59158955

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13768.D
Acq On : 12 Oct 2009 10:38 pm
Operator : sheilac
Sample : t39423-4
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13768.D
Acq On : 12 Oct 2009 10:38 pm
Operator : sheilac
Sample : t39423-4
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

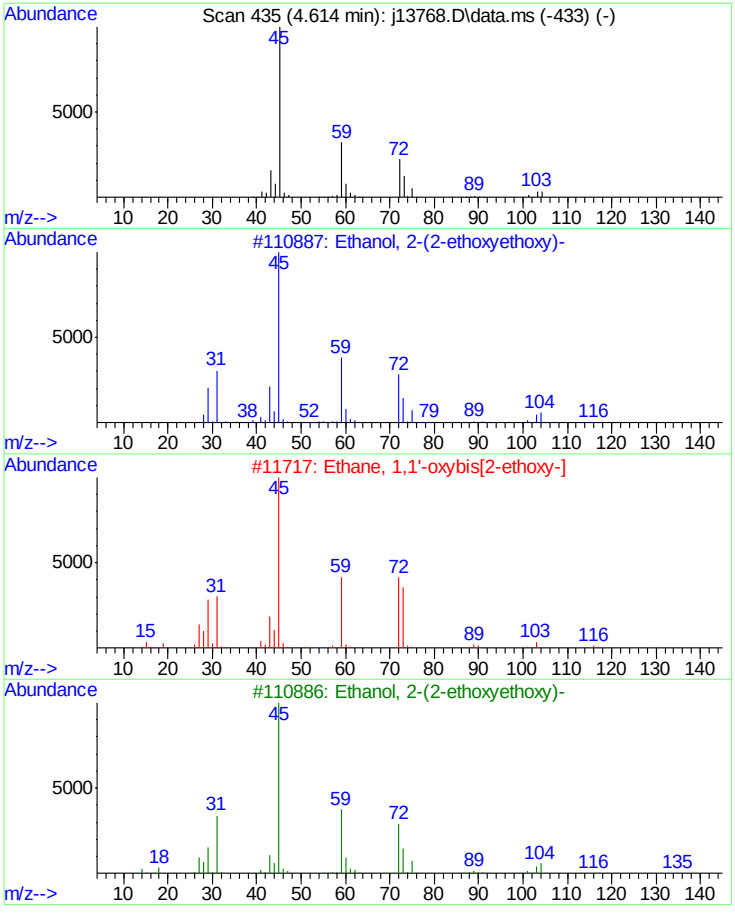
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

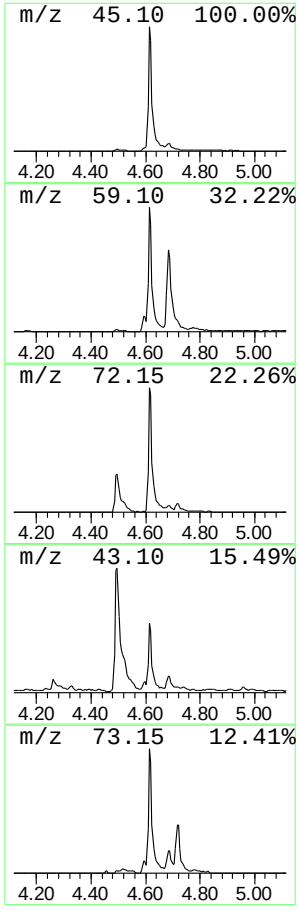
****

Peak Number 1 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.614	5.82 ug/ml	822501	1,4-Dichlorobenzene-d4	4.721

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	78
2	Ethane, 1,1'-oxybis[2-ethoxy-]	162	C8H18O3	000112-36-7	78
3	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	53
4	Ethane, 1,1'-oxybis[2-ethoxy-]	162	C8H18O3	000112-36-7	47
5	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	43





Library Search Compound Report

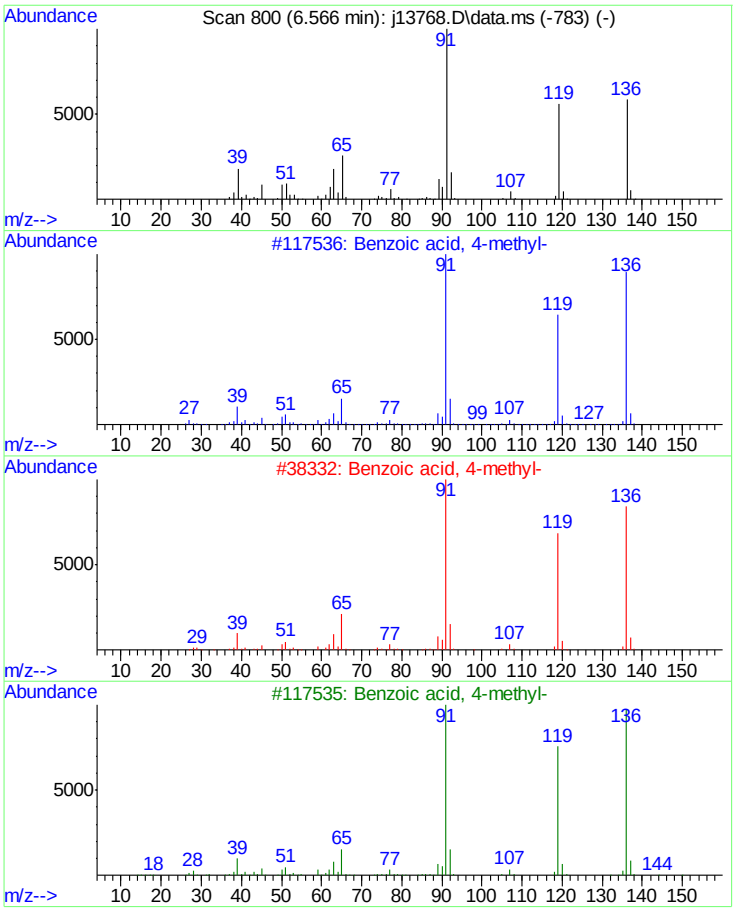
```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13768.D
Acq On    : 12 Oct 2009  10:38 pm
Operator  : sheilac
Sample    : t39423-4
Misc      : op13230,Ej632,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

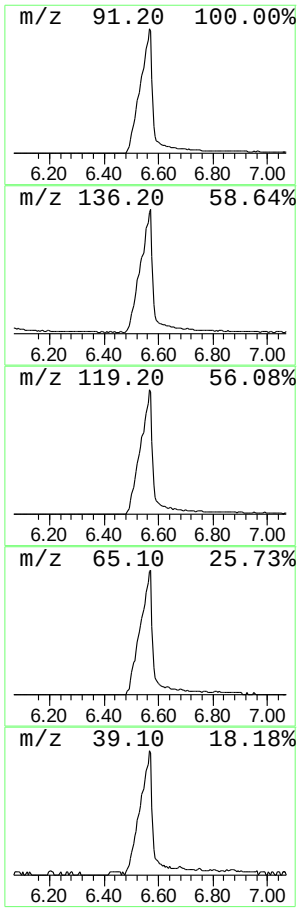
****

Peak Number 2 Benzoic acid, 4-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.566	9.50 ug/ml	1618640	Naphthalene-d8	5.929

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 4-methyl-	136	C8H8O2	000099-94-5	94
2	Benzoic acid, 4-methyl-	136	C8H8O2	000099-94-5	91
3	Benzoic acid, 4-methyl-	136	C8H8O2	000099-94-5	91
4	Benzoic acid, 3-methyl-	136	C8H8O2	000099-04-7	76
5	Benzoic acid, 3-methyl-	136	C8H8O2	000099-04-7	72





Library Search Compound Report

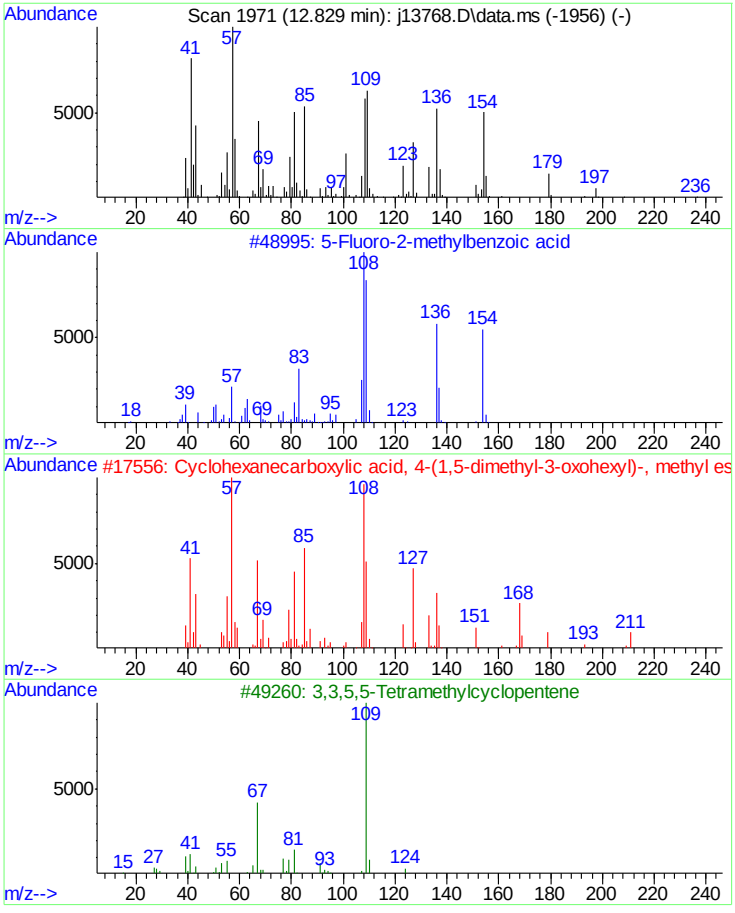
```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13768.D
Acq On    : 12 Oct 2009  10:38 pm
Operator  : sheilac
Sample    : t39423-4
Misc      : op13230,Ej632,1000,,,1,1,water
ALS Vial  : 14   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

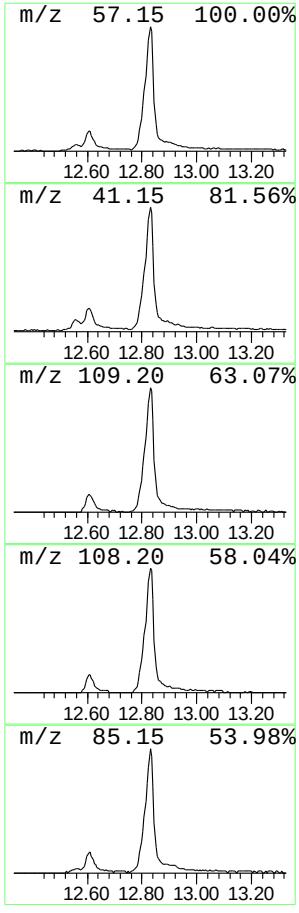
****

Peak Number 3 5-Fluoro-2-methylbenzoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.829	16.92 ug/ml	1923590	Phenanthrene-d10	11.176

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Fluoro-2-methylbenzoic acid	154	C8H7FO2	1000136-57-7	50
2	Cyclohexanecarboxylic acid, 4-(1...	268	C16H28O3	017904-29-9	43
3	3,3,5,5-Tetramethylcyclopentene	124	C9H16	038667-10-6	11
4	Benzoic acid, 2,4-dihydroxy-	154	C7H6O4	000089-86-1	11
5	Benzoic acid, 2,5-dihydroxy-	154	C7H6O4	000490-79-9	11





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13768.D
Acq On : 12 Oct 2009 10:38 pm
Operator : sheilac
Sample : t39423-4
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethanol, 2-(2-e...	4.614	5.8	ug/ml	822501	1	4.721	5657730	40.0
Benzoic acid, 4...	6.566	9.5	ug/ml	1618640	2	5.929	6814020	40.0
5-Fluoro-2-meth...	12.829	16.9	ug/ml	1923590	4	11.176	4548430	40.0

8.1.8

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13769.D
Acq On : 12 Oct 2009 11:07 pm
Operator : sheilac
Sample : t39423-5
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 13 14:08:47 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

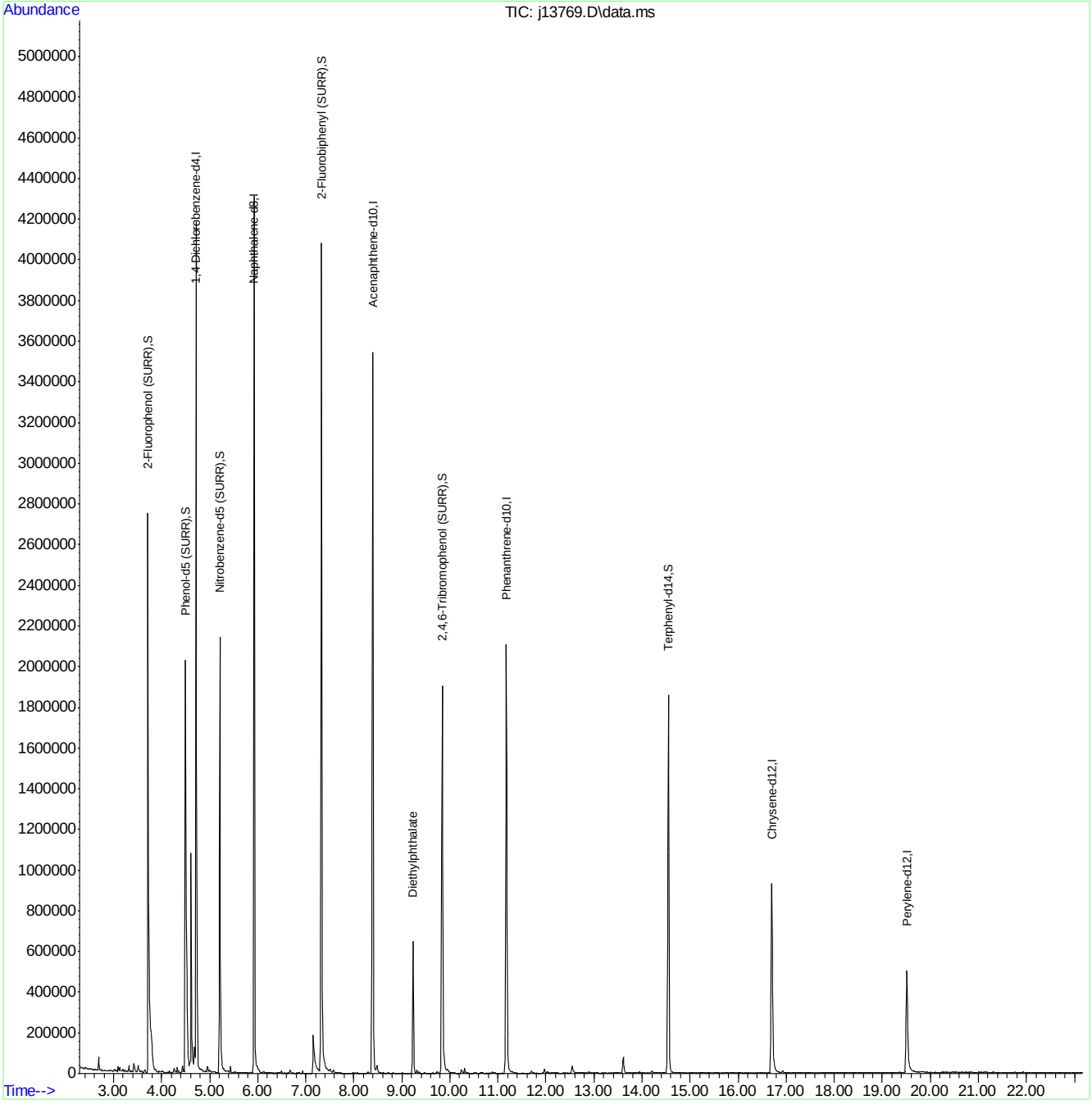
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.715	152	664553	40.00	ug/ml	-0.01
20) Naphthalene-d8	5.924	136	2308911	40.00	ug/ml	-0.02
36) Acenaphthene-d10	8.395	164	1185315	40.00	ug/ml	-0.02
57) Phenanthrene-d10	11.176	188	1350957	40.00	ug/ml	-0.03
71) Chrysene-d12	16.702	240	772211	40.00	ug/ml	-0.03
80) Perylene-d12	19.510	264	476668	40.00	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.715	112	999652	47.93	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 47.93%			
5) Phenol-d5 (SURR)	4.496	99	1090558	41.84	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 41.84%			
21) Nitrobenzene-d5 (SURR)	5.213	82	842976	34.82	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery = 69.64%			
40) 2-Fluorobiphenyl (SURR)	7.331	172	1568278	32.76	ug/ml	-0.21
Spiked Amount 50.000	Range 34 - 113		Recovery = 65.52%			
62) 2,4,6-Tribromophenol (...	9.839	330	351617	77.35	ug/ml	-0.12
Spiked Amount 100.000	Range 32 - 128		Recovery = 77.35%			
74) Terphenyl-d14	14.546	244	998031	54.13	ug/ml	-0.05
Spiked Amount 50.000	Range 12 - 145		Recovery = 108.26%			
Target Compounds						Qvalue
53) Diethylphthalate	9.235	149	288072	6.98	ug/ml	98

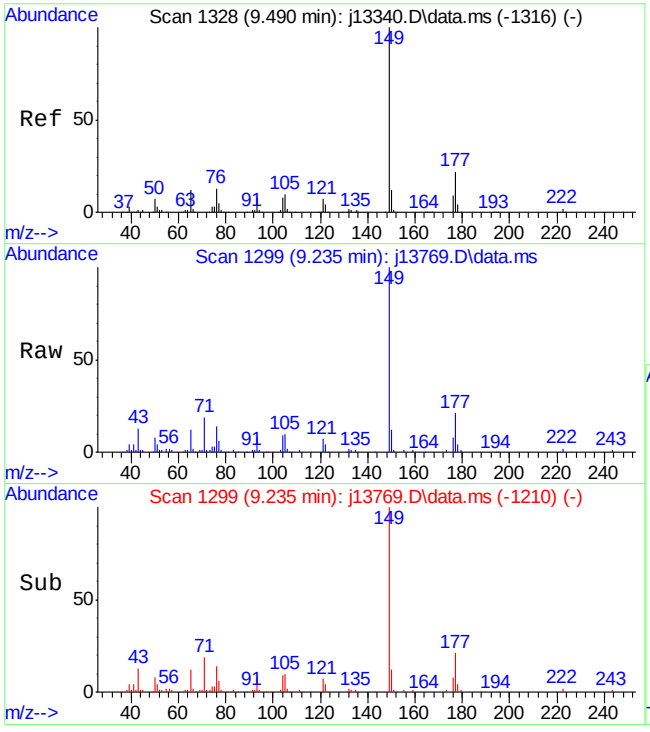
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13769.D
Acq On : 12 Oct 2009 11:07 pm
Operator : sheilac
Sample : t39423-5
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 13 14:08:47 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

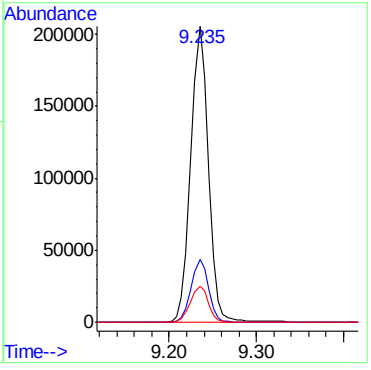




#53
Diethylphthalate
Concen: 6.98 ug/ml
RT: 9.235 min Scan# 1299
Delta R.T. -0.021 min
Lab File: j13769.D
Acq: 12 Oct 2009 11:07 pm

Tgt Ion:149 Resp: 288072

Ion	Ratio	Lower	Upper
149	100		
177	21.0	2.2	42.2
150	12.3	0.0	32.2



8.1.9

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13769.D
Acq On : 12 Oct 2009 11:07 pm
Operator : sheilac
Sample : t39423-5
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 23000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13769.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.688	72	75	80	rVB	62019	61033	1.08%	0.128%
2	3.421	210	212	223	rVB	43030	61968	1.10%	0.130%
3	3.715	264	267	293	rBV	2745735	3862539	68.35%	8.110%
4	4.496	409	413	428	rBV	2020322	3344724	59.19%	7.022%
5	4.614	432	435	445	rVV	1068168	1078447	19.09%	2.264%
6	4.683	445	448	451	rVV	112172	138290	2.45%	0.290%
7	4.715	451	454	468	rVB	4167840	4527780	80.13%	9.506%
8	5.213	542	547	559	rBV	2137781	2647387	46.85%	5.558%
9	5.924	674	680	702	rBV	4307268	5378270	95.18%	11.292%
10	7.160	906	911	935	rBV	188557	504732	8.93%	1.060%
11	7.331	935	943	961	rBV	4072325	5650722	100.00%	11.864%
12	8.395	1131	1142	1154	rBV	3546209	5291034	93.63%	11.109%
13	8.481	1154	1158	1169	rVB5	37903	65556	1.16%	0.138%
14	9.235	1290	1299	1306	rBV	650595	897657	15.89%	1.885%
15	9.839	1404	1412	1429	rBV	1907678	3296043	58.33%	6.920%
16	11.176	1651	1662	1678	rBV2	2109234	3817715	67.56%	8.016%
17	12.551	1907	1919	1928	rBV3	34137	77070	1.36%	0.162%
18	13.610	2110	2117	2127	rBV2	77451	147372	2.61%	0.309%
19	14.546	2280	2292	2308	rBV2	1857562	3417930	60.49%	7.176%
20	16.702	2685	2695	2718	rBV	932925	2093234	37.04%	4.395%
21	19.510	3211	3220	3248	rBV	499022	1269236	22.46%	2.665%

Sum of corrected areas: 47628739

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13769.D
Acq On    : 12 Oct 2009  11:07 pm
Operator  : sheilac
Sample    : t39423-5
Misc      : op13230,Ej632,1000,,,1,1,water
ALS Vial  : 15   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
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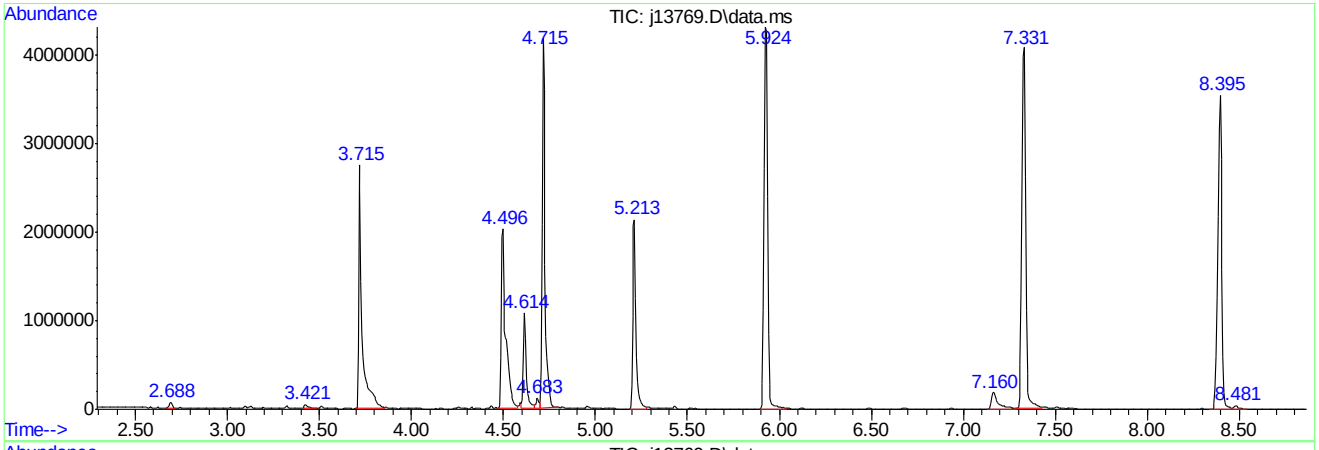
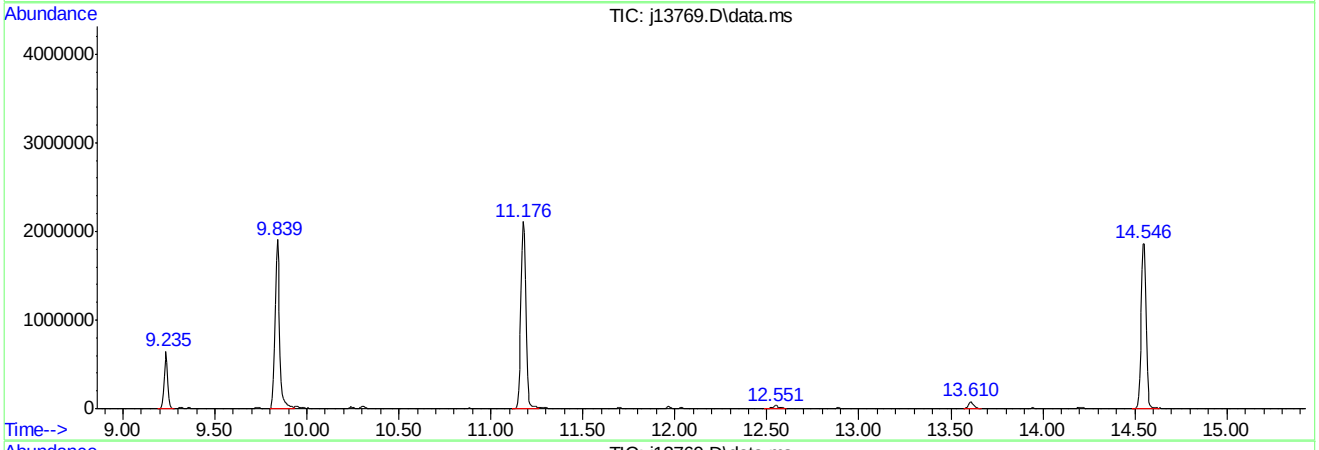
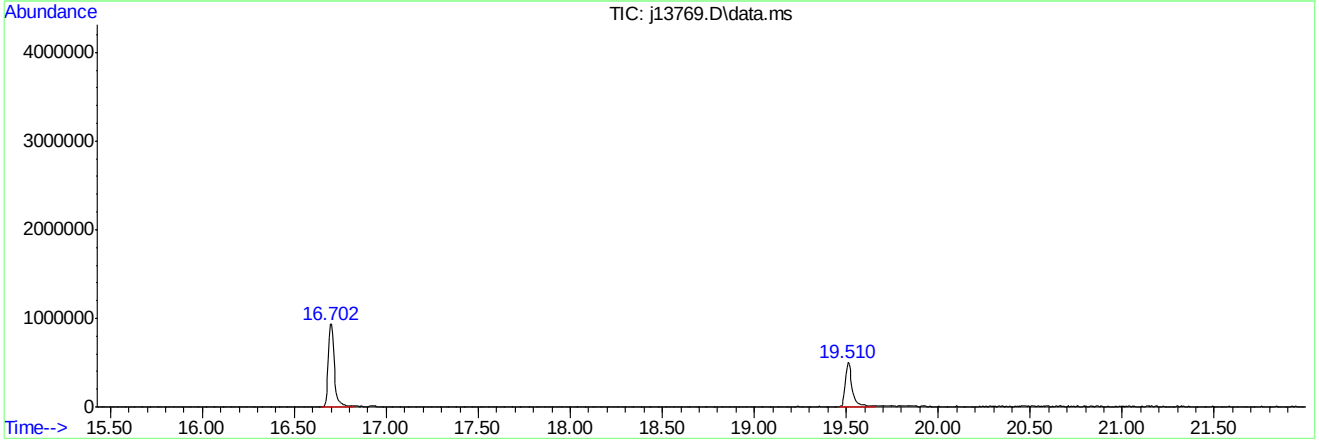






Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13769.D
Acq On : 12 Oct 2009 11:07 pm
Operator : sheilac
Sample : t39423-5
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

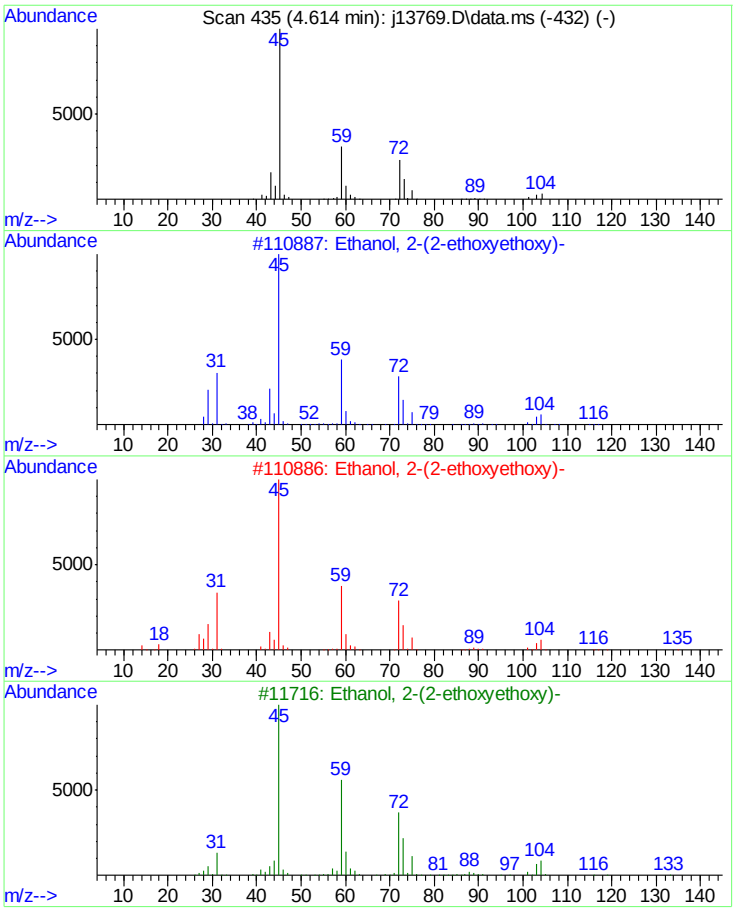
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

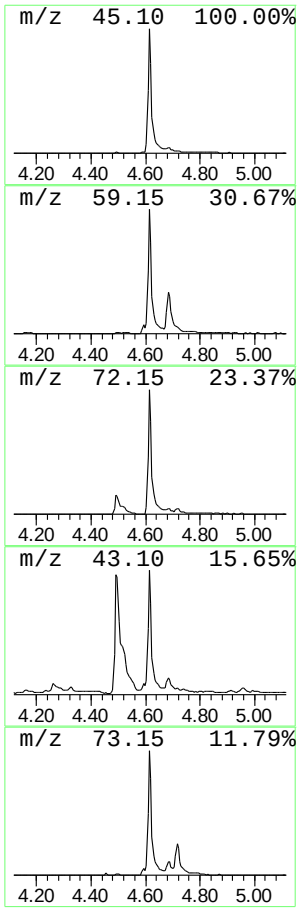
****

Peak Number 1 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.614	9.53 ug/ml	1078450	1,4-Dichlorobenzene-d4	4.715

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	78
2	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	74
3	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	64
4	Ethane, 1,1'-oxybis[2-ethoxy-]	162	C8H18O3	000112-36-7	56
5	Ethanol, 2-[2-(2-ethoxyethoxy)et...	178	C8H18O4	000112-50-5	39





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13769.D
Acq On : 12 Oct 2009 11:07 pm
Operator : sheilac
Sample : t39423-5
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethanol, 2-(2-e...	4.614	9.5	ug/ml	1078450	1	4.715	4527780	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13770.D
Acq On : 12 Oct 2009 11:37 pm
Operator : sheilac
Sample : t39423-6
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 13 14:09:17 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

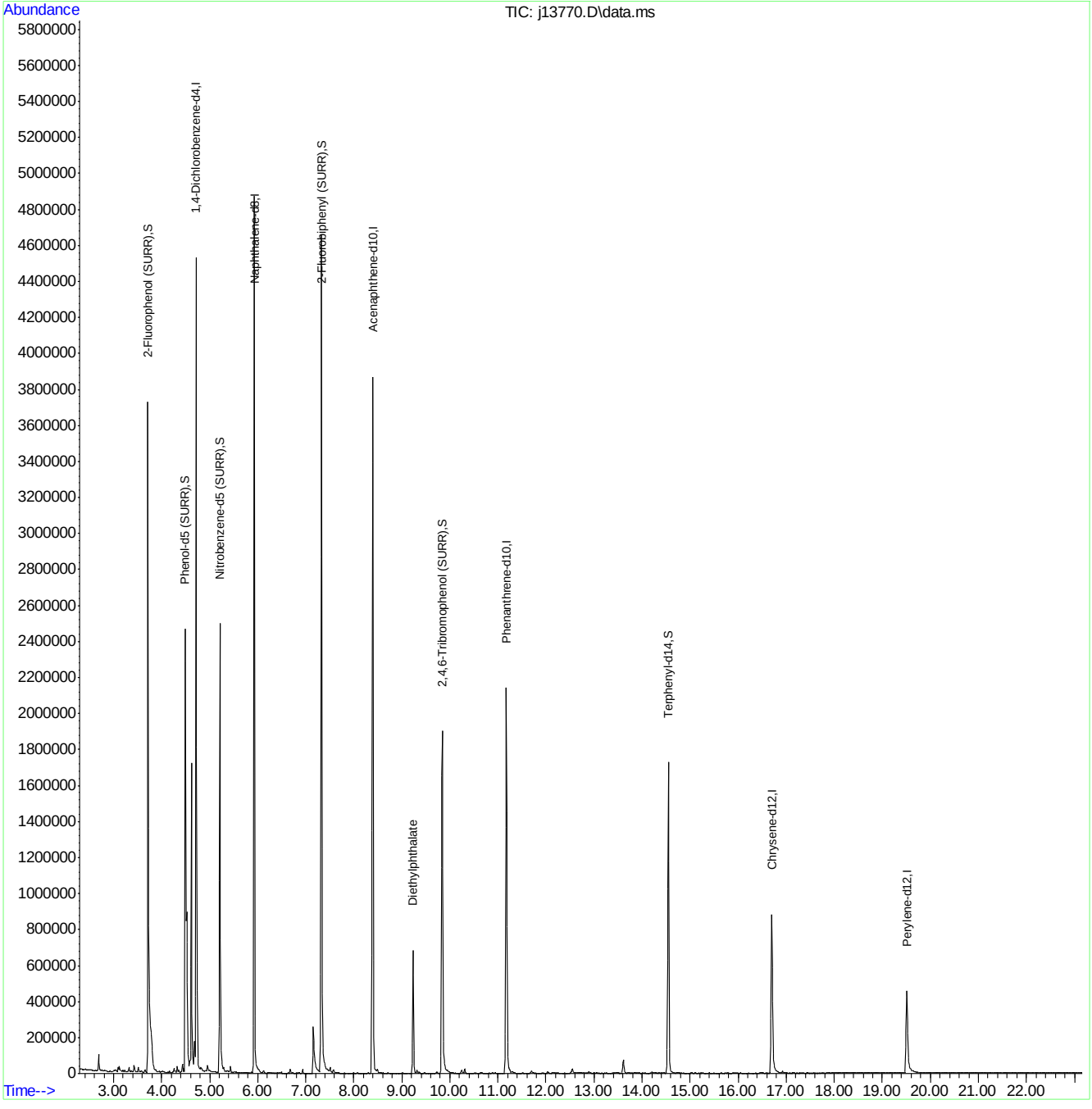
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.715	152	715537	40.00	ug/ml	-0.01
20) Naphthalene-d8	5.929	136	2498396	40.00	ug/ml	-0.02
36) Acenaphthene-d10	8.395	164	1273638	40.00	ug/ml	-0.02
57) Phenanthrene-d10	11.176	188	1380530	40.00	ug/ml	-0.03
71) Chrysene-d12	16.702	240	746594	40.00	ug/ml	-0.03
80) Perylene-d12	19.510	264	458272	40.00	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.715	112	1214337	54.08	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 54.08%			
5) Phenol-d5 (SURR)	4.491	99	878437	31.30	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 31.30%			
21) Nitrobenzene-d5 (SURR)	5.213	82	956609	36.51	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery = 73.02%			
40) 2-Fluorobiphenyl (SURR)	7.331	172	1726070	33.54	ug/ml	-0.21
Spiked Amount 50.000	Range 34 - 113		Recovery = 67.08%			
62) 2,4,6-Tribromophenol (...	9.839	330	351563	75.69	ug/ml	-0.12
Spiked Amount 100.000	Range 32 - 128		Recovery = 75.69%			
74) Terphenyl-d14	14.546	244	892267	50.05	ug/ml	-0.05
Spiked Amount 50.000	Range 12 - 145		Recovery = 100.10%			
Target Compounds						Qvalue
53) Diethylphthalate	9.235	149	299437	6.75	ug/ml	99

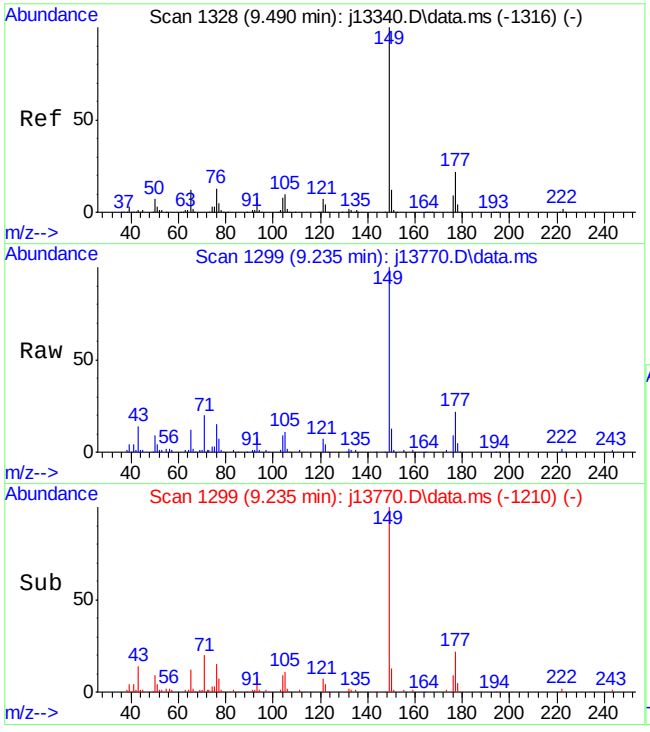
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13770.D
Acq On : 12 Oct 2009 11:37 pm
Operator : sheilac
Sample : t39423-6
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 13 14:09:17 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

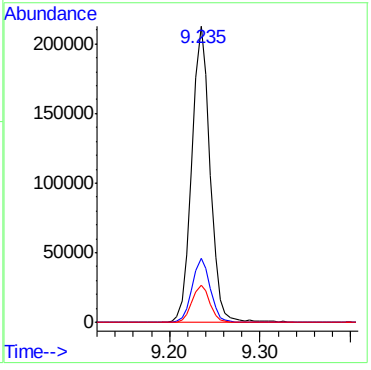




#53
Diethylphthalate
Concen: 6.75 ug/ml
RT: 9.235 min Scan# 1299
Delta R.T. -0.021 min
Lab File: j13770.D
Acq: 12 Oct 2009 11:37 pm

Tgt Ion:149 Resp: 299437

Ion	Ratio	Lower	Upper
149	100		
177	21.3	2.2	42.2
150	12.2	0.0	32.2



8.1.11

8

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13770.D
Acq On : 12 Oct 2009 11:37 pm
Operator : sheilac
Sample : t39423-6
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 23000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13770.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.693	72	76	80	rBV	90428	86283	1.37%	0.167%
2	3.715	264	267	293	rBV	3720561	4709118	74.61%	9.121%
3	4.491	409	412	416	rBV	2454401	2751871	43.60%	5.330%
4	4.523	416	418	428	rVV	879646	1226764	19.44%	2.376%
5	4.619	432	436	445	rVV	1706349	1752371	27.76%	3.394%
6	4.683	445	448	451	rVV	156822	185387	2.94%	0.359%
7	4.715	451	454	468	rVB	4505916	4873165	77.21%	9.438%
8	5.213	542	547	559	rBV	2490235	2998609	47.51%	5.808%
9	5.929	674	681	706	rVB	4868881	5829890	92.37%	11.292%
10	7.160	905	911	935	rBV	259991	605604	9.59%	1.173%
11	7.331	935	943	961	rBV	4649027	6311782	100.00%	12.225%
12	8.395	1130	1142	1156	rBV	3869735	5712078	90.50%	11.063%
13	9.235	1291	1299	1306	rBV	685923	940607	14.90%	1.822%
14	9.839	1404	1412	1431	rBV	1902034	3302662	52.33%	6.397%
15	11.176	1652	1662	1680	rBV2	2141871	3917008	62.06%	7.587%
16	12.551	1905	1919	1929	rBV3	27134	64423	1.02%	0.125%
17	13.610	2111	2117	2130	rVB	75837	147895	2.34%	0.286%
18	14.546	2279	2292	2305	rBV2	1729083	3019302	47.84%	5.848%
19	16.702	2683	2695	2721	rBV	883907	2009805	31.84%	3.893%
20	19.510	3211	3220	3241	rBV	453905	1186128	18.79%	2.297%

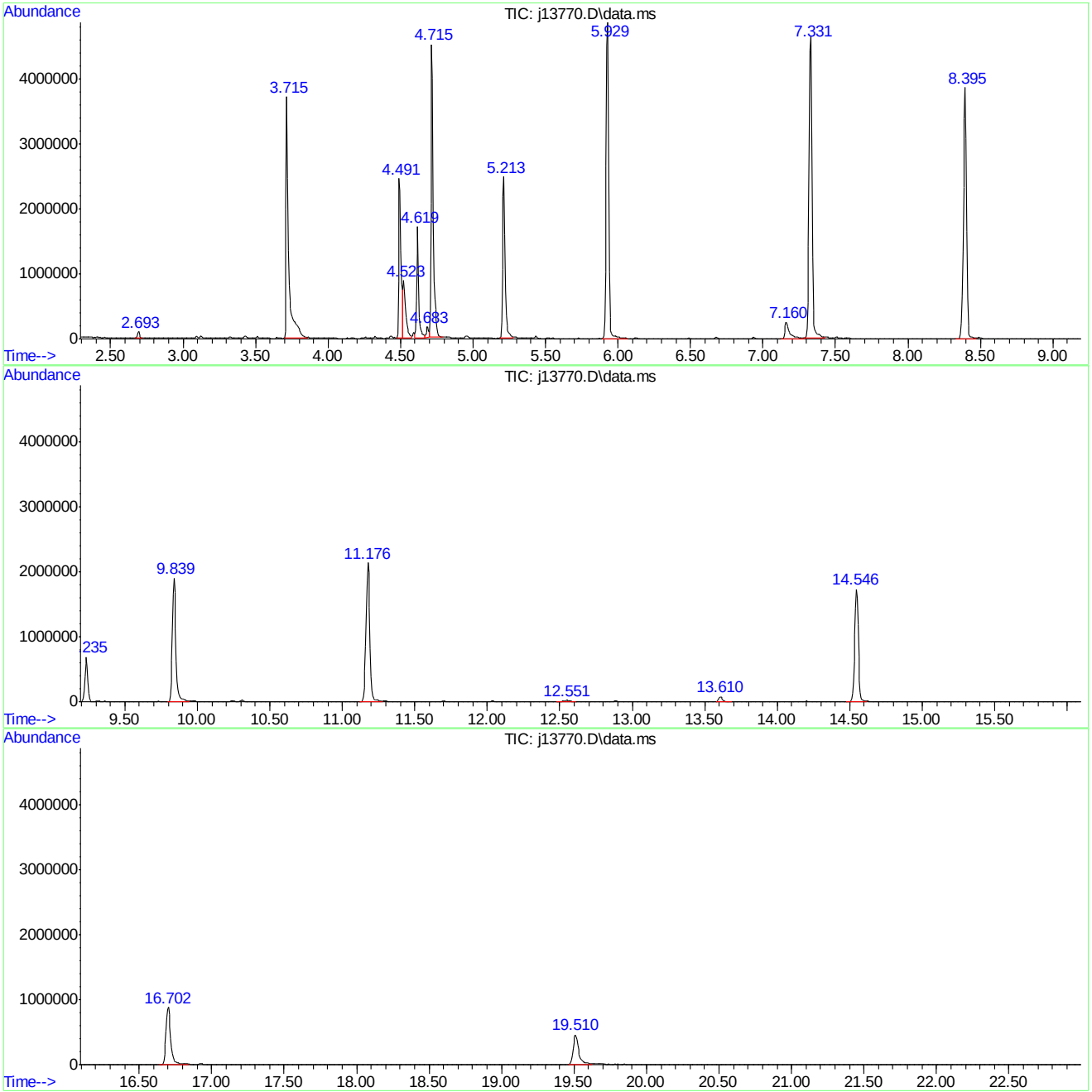
Sum of corrected areas: 51630752

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13770.D
Acq On : 12 Oct 2009 11:37 pm
Operator : sheilac
Sample : t39423-6
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13770.D
Acq On : 12 Oct 2009 11:37 pm
Operator : sheilac
Sample : t39423-6
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

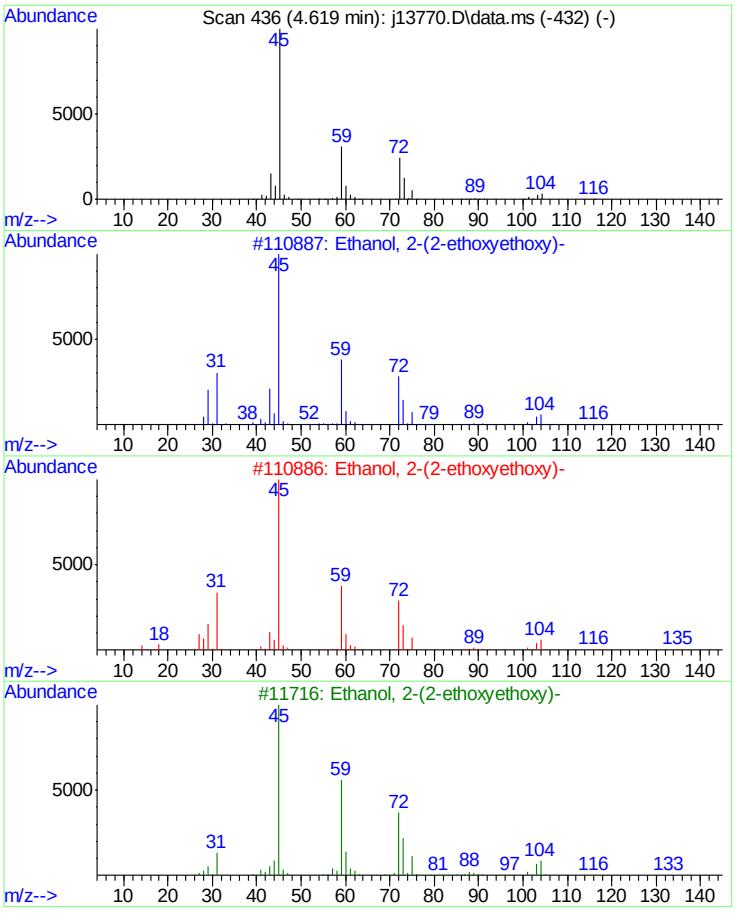
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

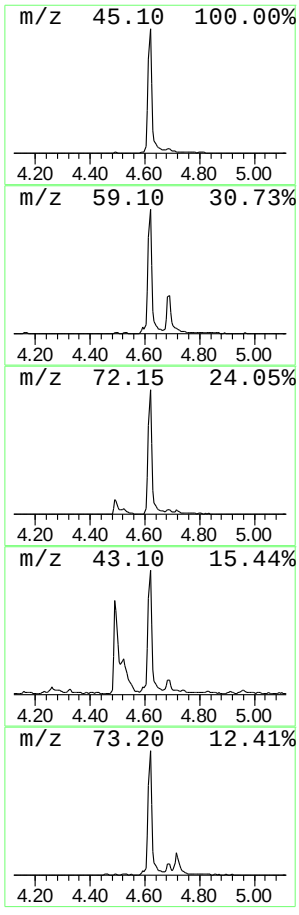
****

Peak Number 1 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.619	14.38 ug/ml	1752370	1,4-Dichlorobenzene-d4	4.715

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	78
2	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	74
3	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	64
4	Ethane, 1,1'-oxybis[2-ethoxy-]	162	C8H18O3	000112-36-7	56
5	2-Butanol, 3-methyl-	88	C5H12O	000598-75-4	47





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13770.D
Acq On : 12 Oct 2009 11:37 pm
Operator : sheilac
Sample : t39423-6
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

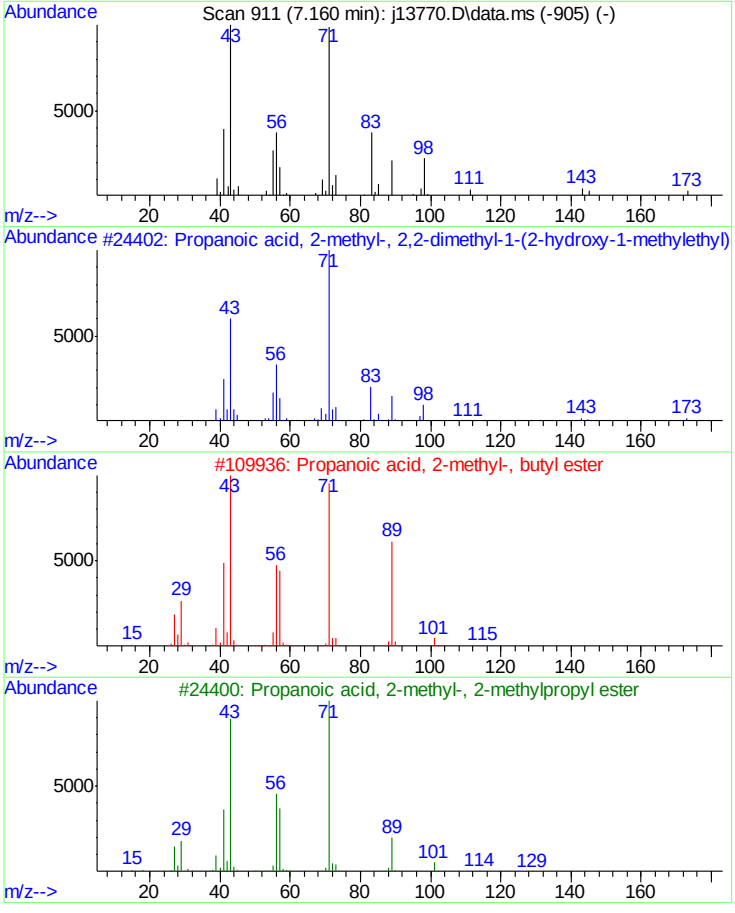
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

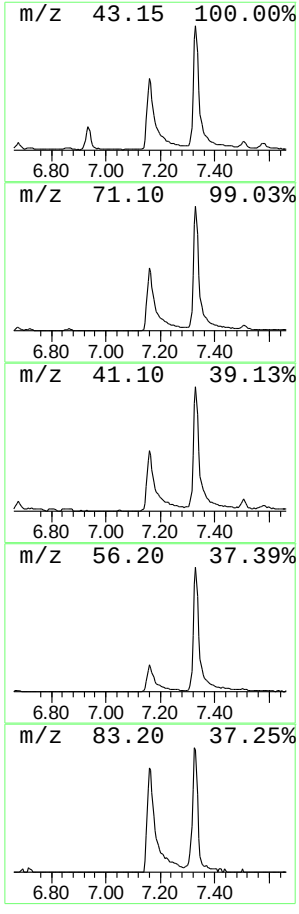
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Propanoic acid, 2-methyl-, ... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.160	4.16 ug/ml	605604	Naphthalene-d8	5.929

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, 2-methyl-, 2,2-d...	216	C12H24O3	074367-33-2	86
2	Propanoic acid, 2-methyl-, butyl...	144	C8H16O2	000097-87-0	50
3	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	50
4	Propanoic acid, 2-methyl-, 1-(1,...	286	C16H30O4	074381-40-1	43
5	Butanoic acid, 1-methylethyl ester	130	C7H14O2	000638-11-9	43





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13770.D
Acq On : 12 Oct 2009 11:37 pm
Operator : sheilac
Sample : t39423-6
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethanol, 2-(2-e...	4.619	14.4	ug/ml	1752370	1	4.715	4873170	40.0
Propanoic acid,...	7.160	4.2	ug/ml	605604	2	5.929	5829890	40.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13771.D
Acq On : 13 Oct 2009 12:06 am
Operator : sheilac
Sample : t39423-7
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 13 14:09:52 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

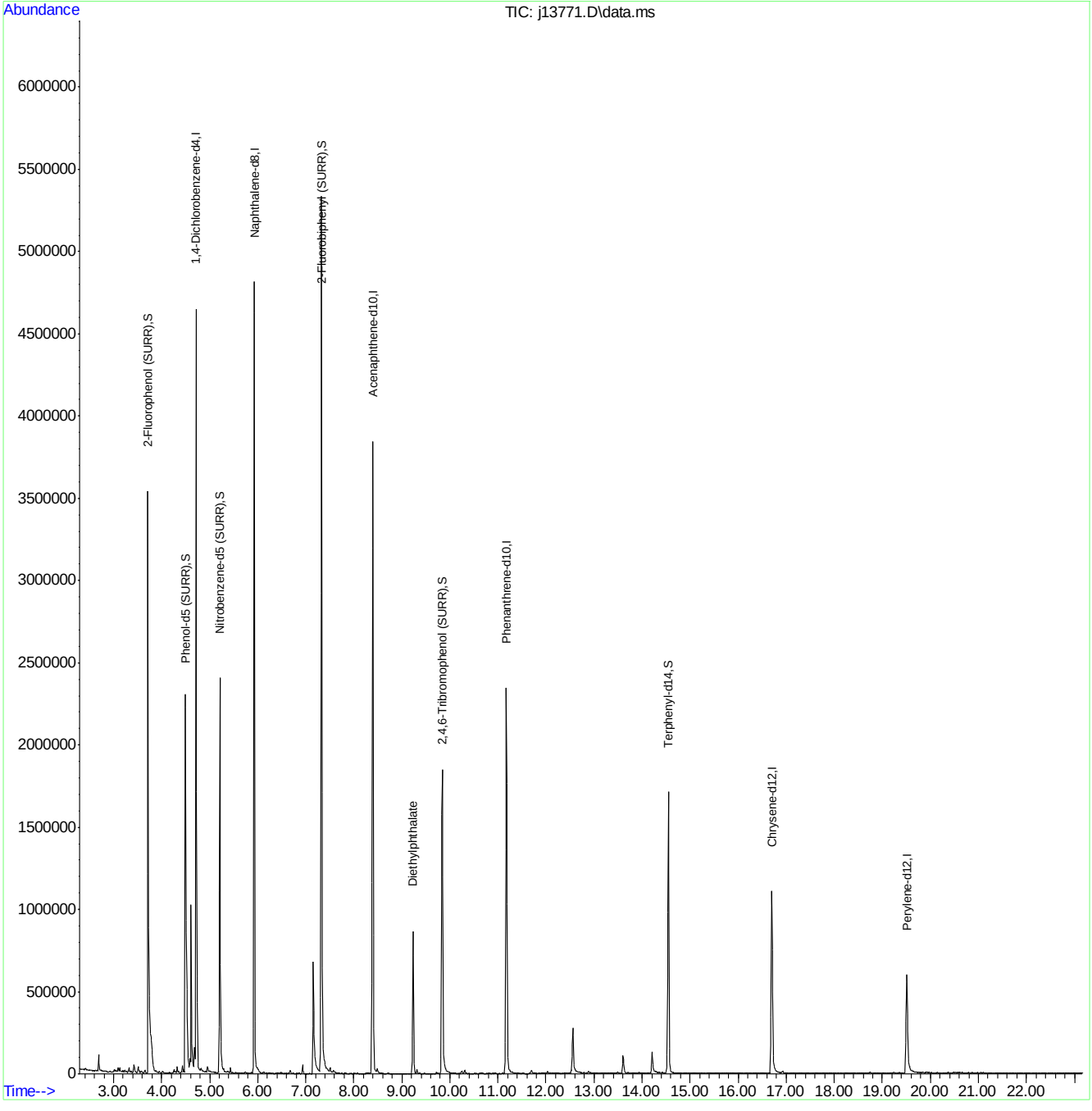
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.715	152	723208	40.00	ug/ml	-0.01
20) Naphthalene-d8	5.929	136	2517611	40.00	ug/ml	-0.02
36) Acenaphthene-d10	8.395	164	1294289	40.00	ug/ml	-0.02
57) Phenanthrene-d10	11.176	188	1509002	40.00	ug/ml	-0.03
71) Chrysene-d12	16.702	240	871816	40.00	ug/ml	-0.03
80) Perylene-d12	19.510	264	557540	40.00	ug/ml	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.715	112	1160002	51.11	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 51.11%			
5) Phenol-d5 (SURR)	4.496	99	1196106	42.17	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 42.17%			
21) Nitrobenzene-d5 (SURR)	5.213	82	925660	35.06	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery = 70.12%			
40) 2-Fluorobiphenyl (SURR)	7.331	172	1690571	32.35	ug/ml	-0.21
Spiked Amount 50.000	Range 34 - 113		Recovery = 64.70%			
62) 2,4,6-Tribromophenol (...	9.845	330	342118	67.38	ug/ml	-0.12
Spiked Amount 100.000	Range 32 - 128		Recovery = 67.38%			
74) Terphenyl-d14	14.546	244	878518	42.20	ug/ml	-0.05
Spiked Amount 50.000	Range 12 - 145		Recovery = 84.40%			
Target Compounds						Qvalue
53) Diethylphthalate	9.235	149	342166	7.59	ug/ml	99

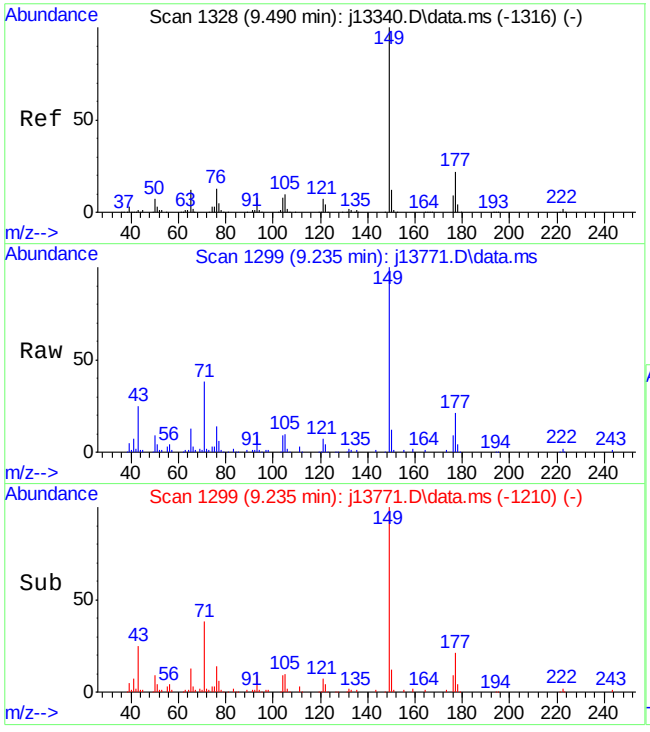
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13771.D
Acq On : 13 Oct 2009 12:06 am
Operator : sheilac
Sample : t39423-7
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 13 14:09:52 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Tue Oct 13 13:17:41 2009
Response via : Initial Calibration

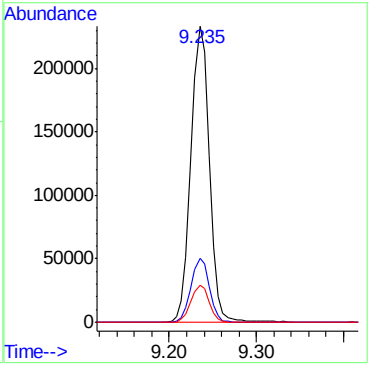




#53
Diethylphthalate
Concen: 7.59 ug/ml
RT: 9.235 min Scan# 1299
Delta R.T. -0.021 min
Lab File: j13771.D
Acq: 13 Oct 2009 12:06 am

Tgt Ion:149 Resp: 342166

Ion	Ratio	Lower	Upper
149	100		
177	21.2	2.2	42.2
150	12.2	0.0	32.2



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13771.D
Acq On : 13 Oct 2009 12:06 am
Operator : sheilac
Sample : t39423-7
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 23000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13771.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.693	72	76	80	rBV	96415	95088	1.34%	0.176%
2	3.715	264	267	293	rBV	3537502	4490967	63.17%	8.313%
3	4.491	409	412	428	rVV	2299564	3704220	52.10%	6.857%
4	4.614	432	435	445	rVV	1013790	1052186	14.80%	1.948%
5	4.683	445	448	450	rVV	141257	142936	2.01%	0.265%
6	4.715	450	454	470	rVB	4630615	4961465	69.78%	9.184%
7	5.213	542	547	559	rBV	2397298	2907524	40.90%	5.382%
8	5.929	675	681	703	rBV	4808505	5864593	82.49%	10.856%
9	7.160	905	911	936	rBV	681258	1268872	17.85%	2.349%
10	7.331	936	943	961	rBV	5321082	7109690	100.00%	13.161%
11	8.395	1130	1142	1155	rBV	3845023	5803429	81.63%	10.743%
12	9.235	1292	1299	1307	rBV	866983	1231872	17.33%	2.280%
13	9.839	1404	1412	1430	rBV	1849238	3265406	45.93%	6.045%
14	11.176	1650	1662	1680	rBV2	2345656	4290698	60.35%	7.943%
15	12.562	1907	1921	1934	rBV2	279039	540506	7.60%	1.001%
16	13.605	2110	2116	2129	rBV	108155	204981	2.88%	0.379%
17	14.209	2221	2229	2242	rBV	127668	245618	3.45%	0.455%
18	14.546	2281	2292	2310	rBV2	1706832	3010154	42.34%	5.572%
19	16.702	2685	2695	2722	rBV	1107679	2362945	33.24%	4.374%
20	19.510	3211	3220	3240	rBV	596332	1468156	20.65%	2.718%

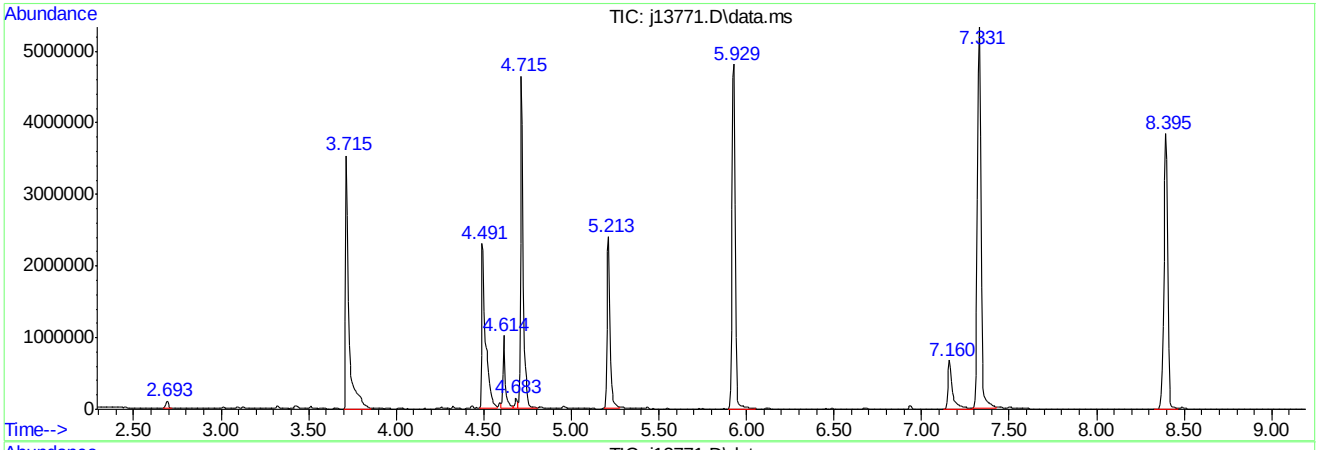
Sum of corrected areas: 54021306

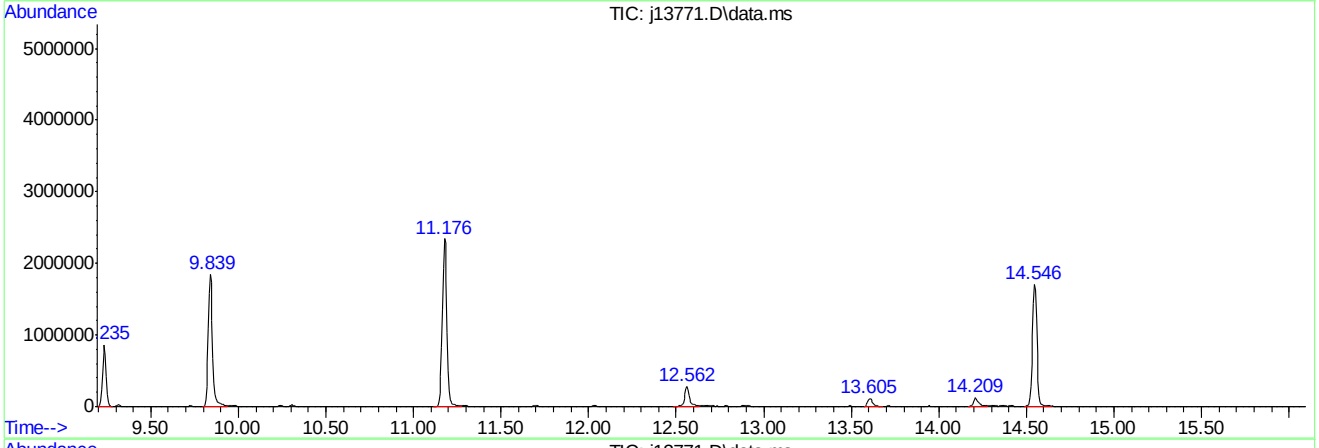
LSC Report - Integrated Chromatogram

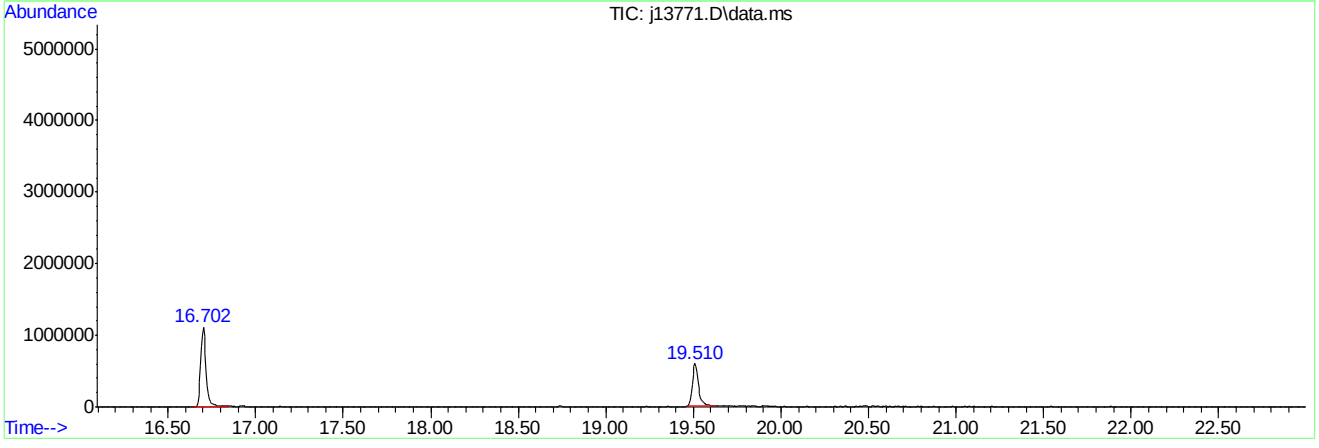
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13771.D
Acq On : 13 Oct 2009 12:06 am
Operator : sheilac
Sample : t39423-7
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13771.D
Acq On : 13 Oct 2009 12:06 am
Operator : sheilac
Sample : t39423-7
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

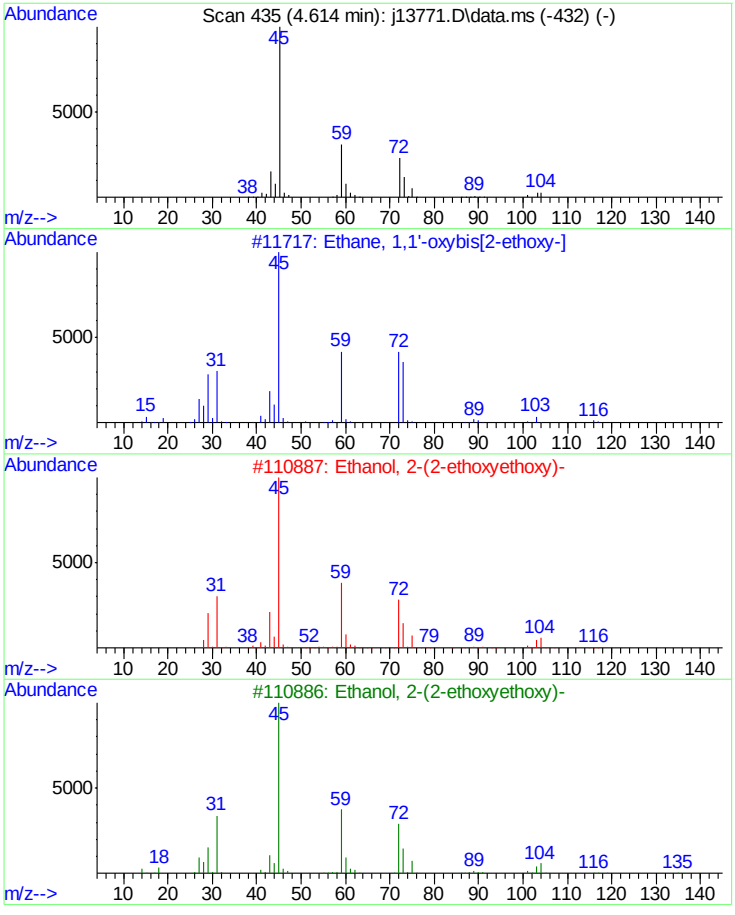
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

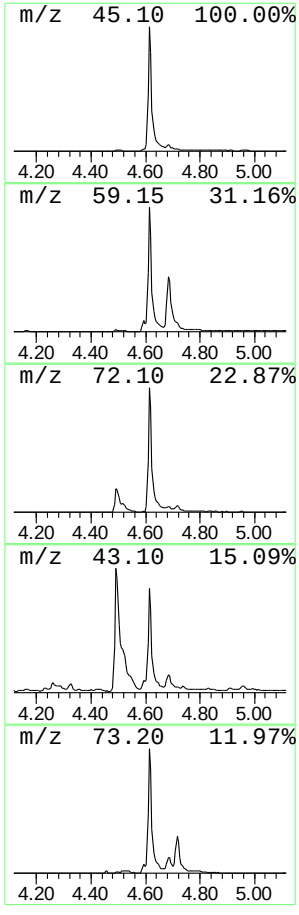
****

Peak Number 1 Ethane, 1,1'-oxybis[2-ethoxy-] Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.614	8.48 ug/ml	1052190	1,4-Dichlorobenzene-d4	4.715

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1,1'-oxybis[2-ethoxy-]	162	C8H18O3	000112-36-7	78
2	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	78
3	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	74
4	Ethane, 1,1'-oxybis[2-ethoxy-]	162	C8H18O3	000112-36-7	47
5	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	43





Library Search Compound Report

```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13771.D
Acq On    : 13 Oct 2009  12:06 am
Operator  : sheilac
Sample    : t39423-7
Misc      : op13230,Ej632,1000,,,1,1,water
ALS Vial  : 17   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

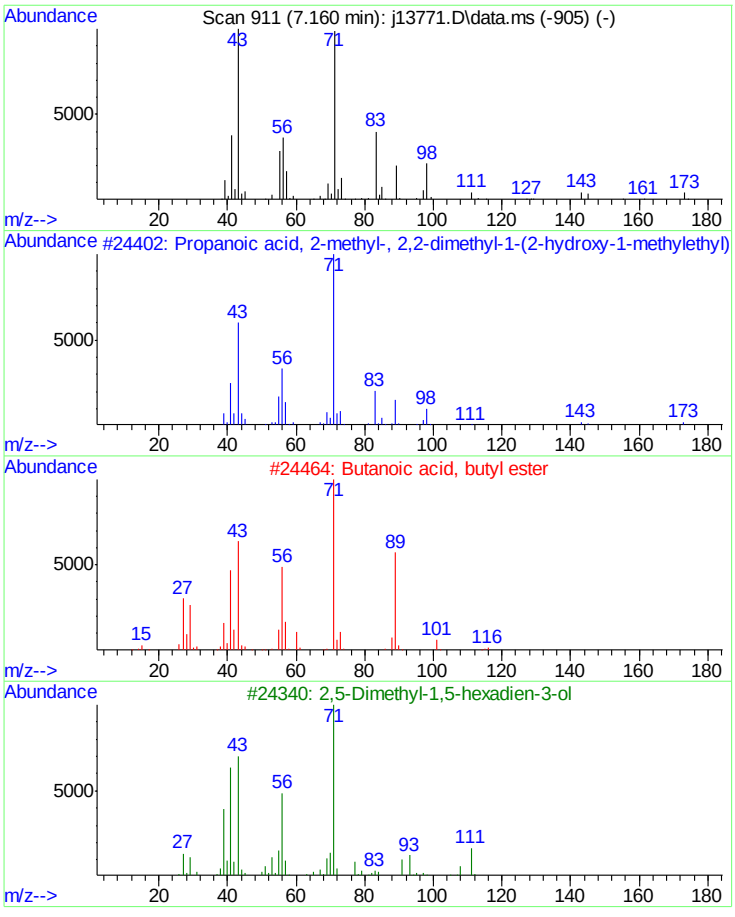
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

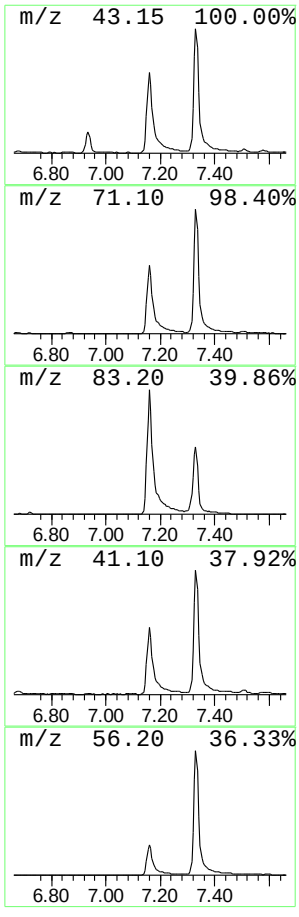
****

Peak Number 2 Propanoic acid, 2-methyl-, ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.160	8.65 ug/ml	1268870	Naphthalene-d8	5.929

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, 2-methyl-, 2,2-d...	216	C12H24O3	074367-33-2	59
2	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	47
3	2,5-Dimethyl-1,5-hexadien-3-ol	126	C8H14O	017123-63-6	38
4	Butanoic acid, 1-methylethyl ester	130	C7H14O2	000638-11-9	38
5	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	37





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13771.D
Acq On : 13 Oct 2009 12:06 am
Operator : sheilac
Sample : t39423-7
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

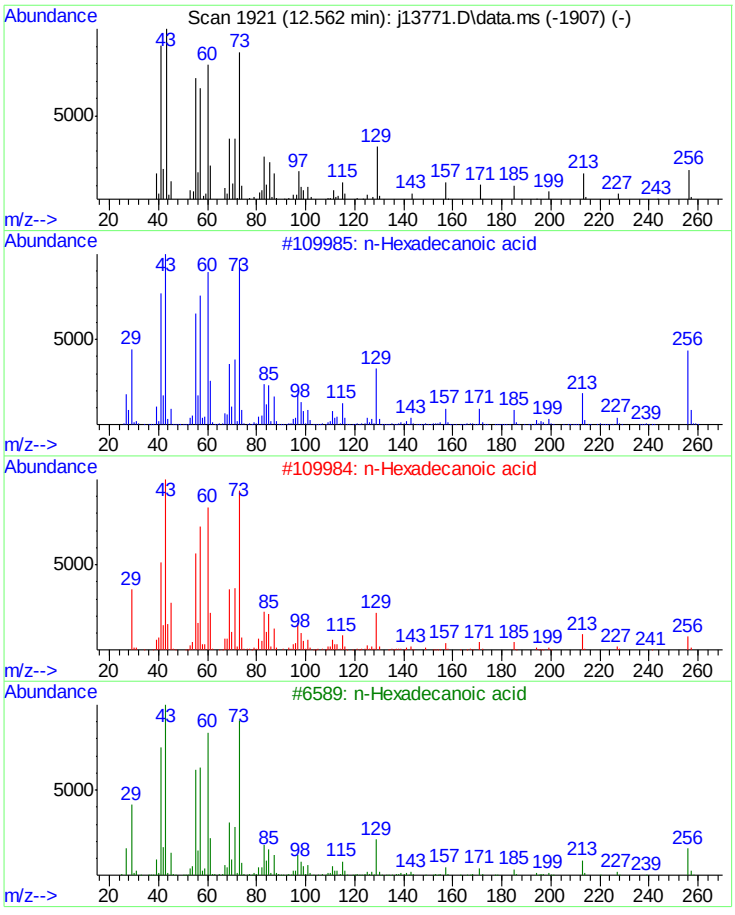
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

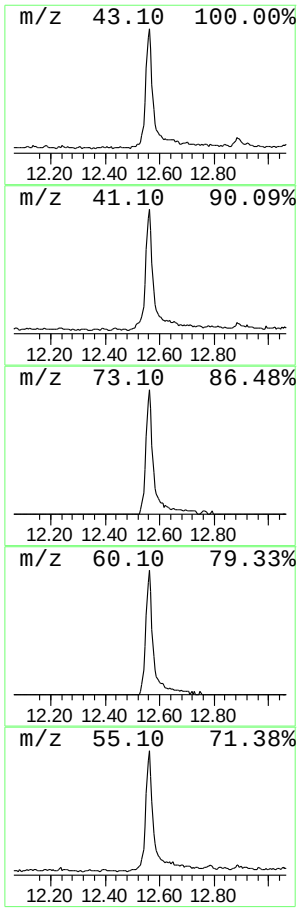
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.562	5.04 ug/ml	540506	Phenanthrene-d10	11.176

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
3	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	95
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	80





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13771.D
Acq On : 13 Oct 2009 12:06 am
Operator : sheilac
Sample : t39423-7
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

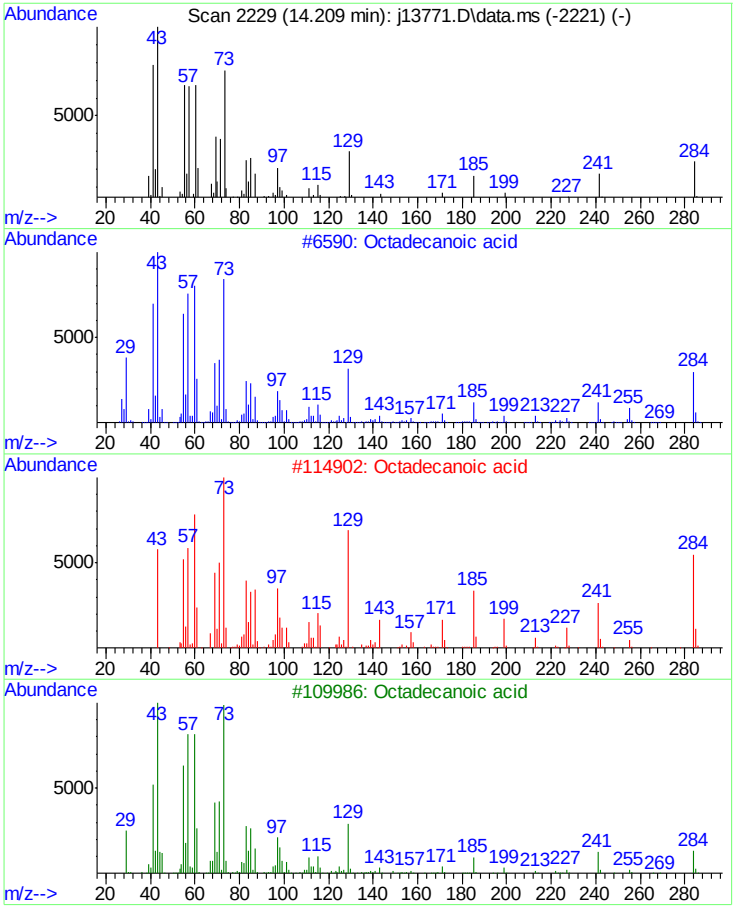
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

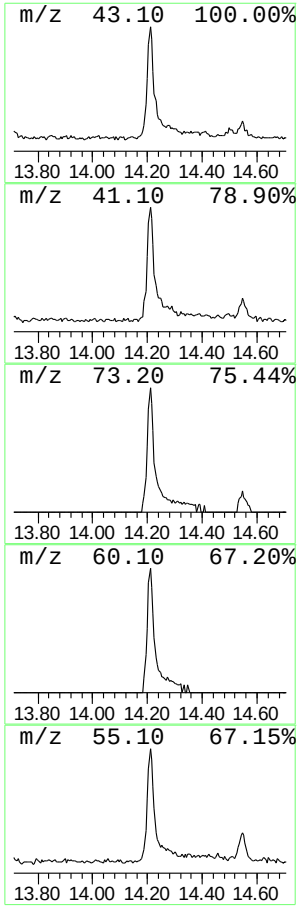
****

Peak Number 4 Octadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.209	4.16 ug/ml	245618	Chrysene-d12	16.702

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	98
2	Octadecanoic acid	284	C18H36O2	000057-11-4	97
3	Octadecanoic acid	284	C18H36O2	000057-11-4	96
4	Octadecanoic acid	284	C18H36O2	000057-11-4	96
5	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	87





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13771.D
Acq On : 13 Oct 2009 12:06 am
Operator : sheilac
Sample : t39423-7
Misc : op13230,Ej632,1000,,,1,1,water
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethane, 1,1'-ox...	4.614	8.5	ug/ml	1052190	1	4.715	4961470	40.0
Propanoic acid,...	7.160	8.7	ug/ml	1268870	2	5.929	5864590	40.0
n-Hexadecanoic ...	12.562	5.0	ug/ml	540506	4	11.176	4290700	40.0
Octadecanoic acid	14.209	4.2	ug/ml	245618	5	16.702	2362950	40.0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35555.D Vial: 13
Acq On : 22 Oct 2009 5:13 pm Operator: sheilac
Sample : t39423-1 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 17:50 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	71062	4.00 ppb	0.00
4) Naphthalene-d8	7.57	136	53929	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	50423	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	70217	4.00 ppb	0.00
21) Chrysene-d12	13.90	240	16097	4.00 ppb	0.00
26) Perylene-d12	16.37	264	5259	4.00 ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	253414	44.97 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 899.40%#		
10) 2-Fluorobiphenyl	8.87	172	2198891	54.04 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 1080.80%#		
16) 2,4,6-Tribromophenol	10.42	330	359362	166.84 ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery = 1668.40%#		
23) Terphenyl-d14	12.66	244	327265	57.39 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1147.80%#		

Target Compounds

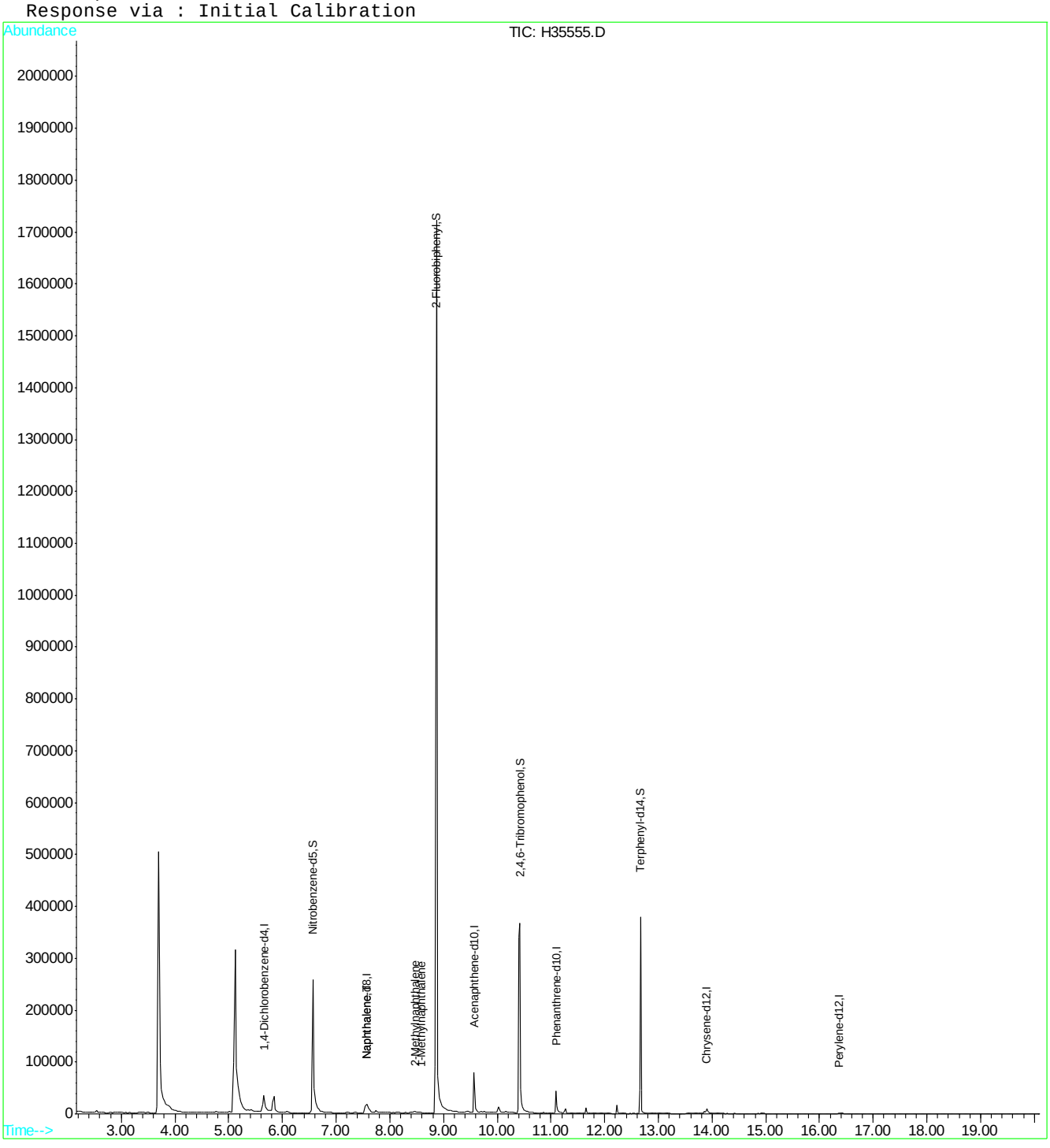
						Qvalue
6) Naphthalene	7.57	128	8460	0.32 ppb		98
7) 2-Methylnaphthalene	8.47	142	3803	0.17 ppb	#	100
8) 1-Methylnaphthalene	8.58	142	3560	0.17 ppb	#	65

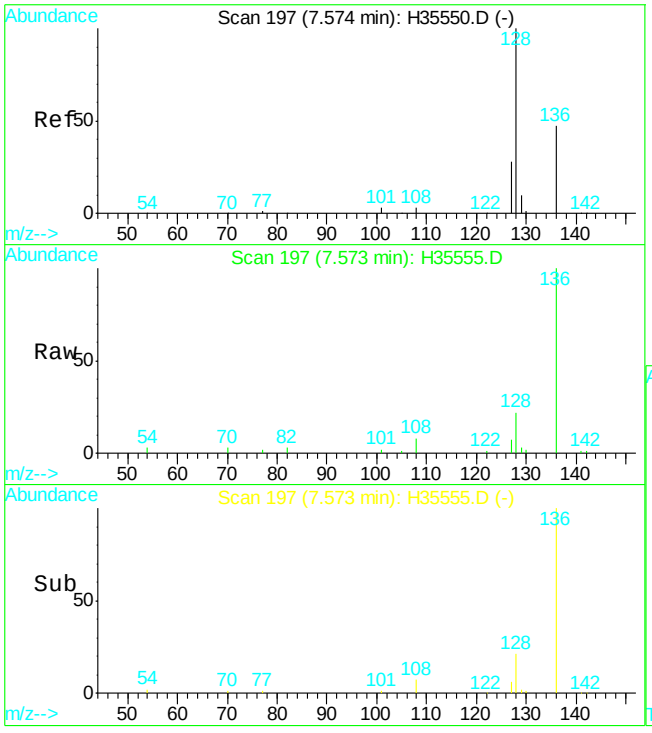
(#) = qualifier out of range (m) = manual integration
H35555.D H10229SP.M Mon Oct 26 17:43:47 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35555.D Vial: 13
Acq On : 22 Oct 2009 5:13 pm Operator: sheilac
Sample : t39423-1 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 17:50 2009 Quant Results File: H10229SP.RES

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration

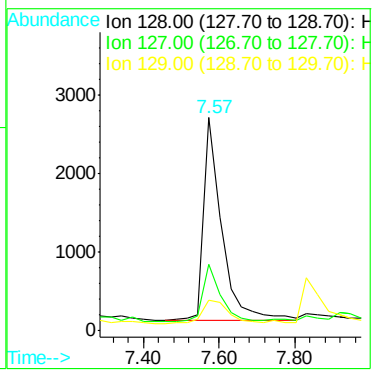


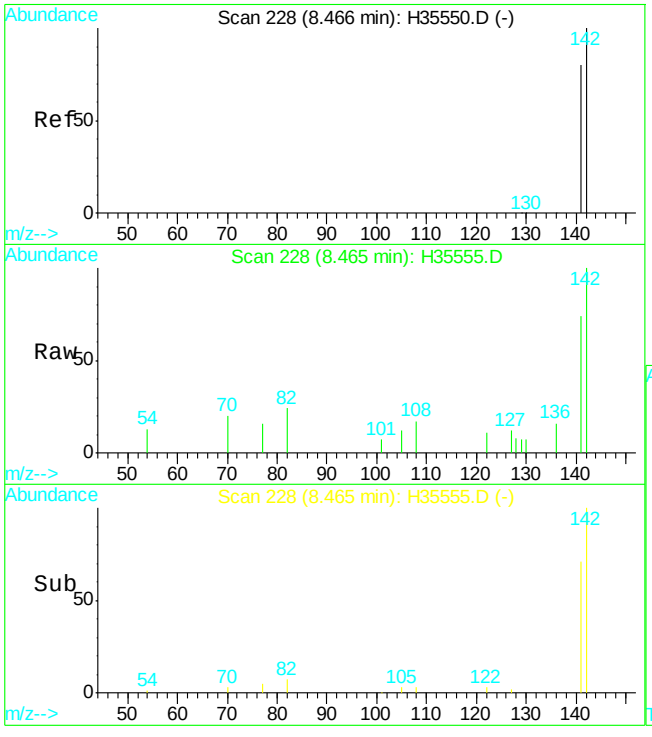


#6
Naphthalene
Concen: 0.32 ppb
RT: 7.57 min Scan# 197
Delta R.T. -0.00 min
Lab File: H35555.D
Acq: 22 Oct 2009 5:13 pm

Tgt Ion:128 Resp: 8460

Ion	Ratio	Lower	Upper
128	100		
127	27.7	18.8	35.0
129	11.7	7.0	13.0

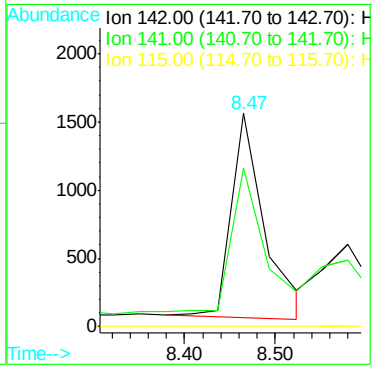


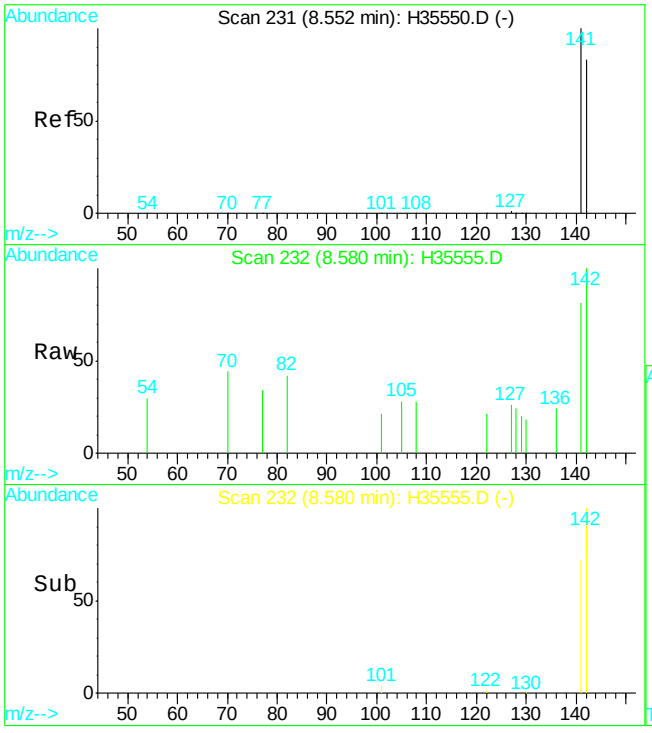


#7
2-Methylnaphthalene
Concen: 0.17 ppb
RT: 8.47 min Scan# 228
Delta R.T. -0.00 min
Lab File: H35555.D
Acq: 22 Oct 2009 5:13 pm

Tgt Ion:142 Resp: 3803

Ion	Ratio	Lower	Upper
142	100		
141	0.0	0.0	0.0
115	0.0	0.0	0.0

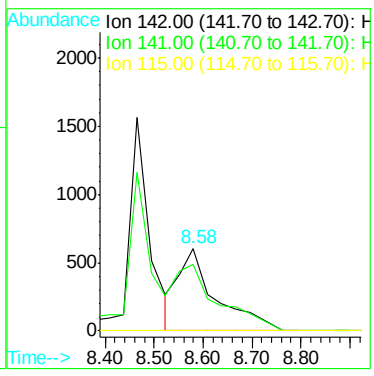




#8
1-Methylnaphthalene
Concen: 0.17 ppb
RT: 8.58 min Scan# 232
Delta R.T. 0.03 min
Lab File: H35555.D
Acq: 22 Oct 2009 5:13 pm

Tgt Ion:142 Resp: 3560

Ion	Ratio	Lower	Upper
142	100		
141	92.8	94.6	175.6#
115	0.0	0.0	0.0



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35556.D Vial: 14
Acq On : 22 Oct 2009 5:42 pm Operator: sheilac
Sample : t39423-2 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:44 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	79912	4.00 ppb	0.00
4) Naphthalene-d8	7.57	136	51932	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	49237	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	74538	4.00 ppb	0.00
21) Chrysene-d12	13.90	240	15029	4.00 ppb	0.00
26) Perylene-d12	16.37	264	5782	4.00 ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	136580	29.81 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	= 596.20%#	
10) 2-Fluorobiphenyl	8.87	172	1480053	37.25 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	= 745.00%#	
16) 2,4,6-Tribromophenol	10.40	330	267694	117.08 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	= 1170.80%#	
23) Terphenyl-d14	12.66	244	262729	50.15 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	= 1003.00%#	

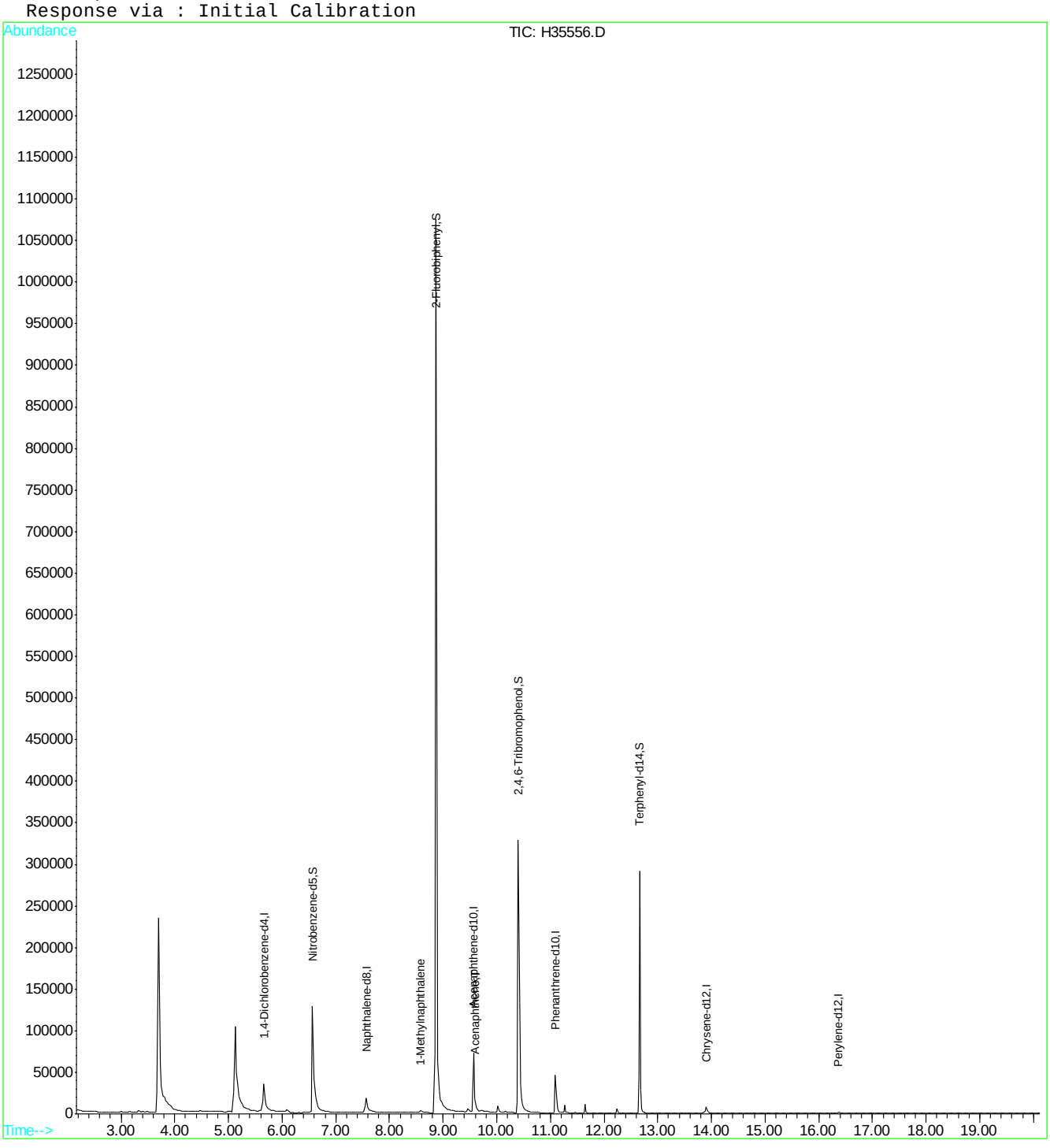
Target Compounds					Qvalue
8) 1-Methylnaphthalene	8.58	142	4713m	0.21 ppb	
12) Acenaphthene	9.60	153	5123	0.17 ppb	92

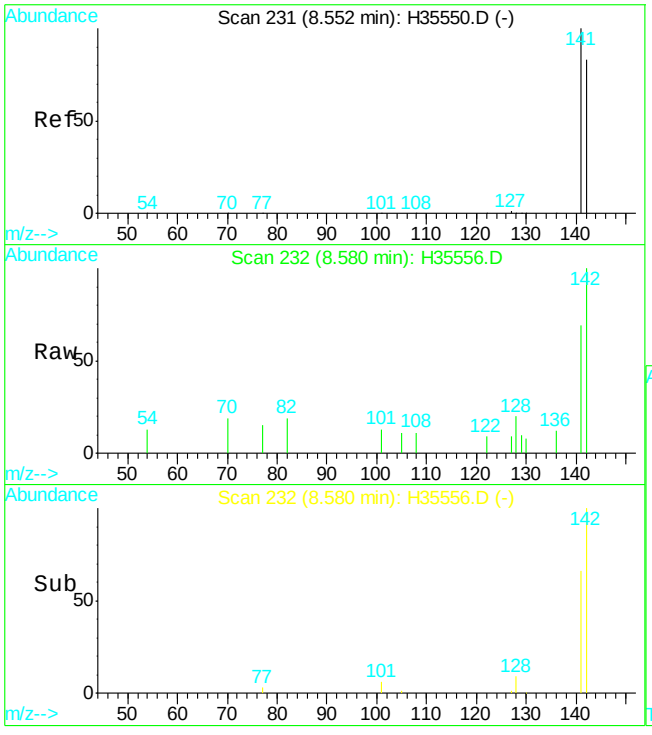
(#) = qualifier out of range (m) = manual integration
H35556.D H10229SP.M Mon Oct 26 17:44:52 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35556.D Vial: 14
Acq On : 22 Oct 2009 5:42 pm Operator: sheilac
Sample : t39423-2 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:44 2009 Quant Results File: H10229SP.RES

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration

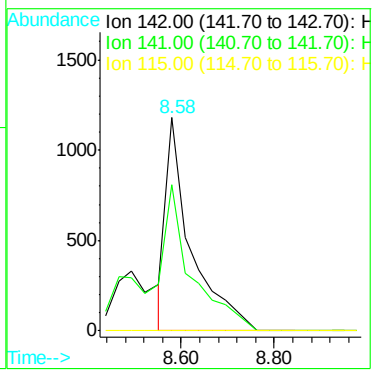


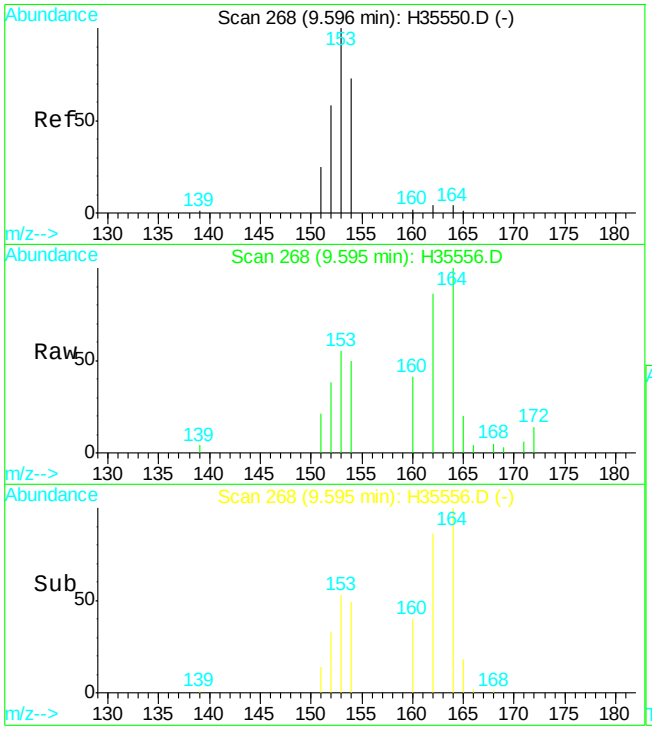


#8
1-Methylnaphthalene
Concen: 0.21 ppb m
RT: 8.58 min Scan# 232
Delta R.T. 0.03 min
Lab File: H35556.D
Acq: 22 Oct 2009 5:42 pm

Tgt Ion:142 Resp: 4713

Ion	Ratio	Lower	Upper
142	100		
141	120.1	94.6	175.6
115	0.0	0.0	0.0

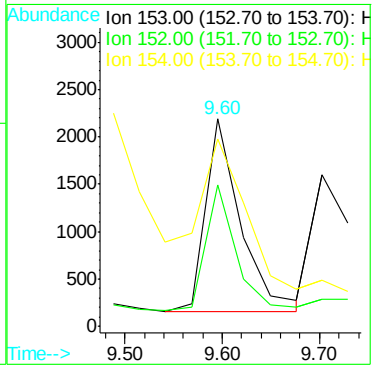




#12
Acenaphthene
Concen: 0.17 ppb
RT: 9.60 min Scan# 268
Delta R.T. -0.00 min
Lab File: H35556.D
Acq: 22 Oct 2009 5:42 pm

Tgt Ion:153 Resp: 5123

Ion	Ratio	Lower	Upper
153	100		
152	66.2	40.9	76.0
154	67.7	50.9	94.5



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35557.D Vial: 15
Acq On : 22 Oct 2009 6:11 pm Operator: sheilac
Sample : t39423-3 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:45 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	84833	4.00 ppb	0.00
4) Naphthalene-d8	7.57	136	57510	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	53957	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	74148	4.00 ppb	0.00
21) Chrysene-d12	13.90	240	13890	4.00 ppb	0.00
26) Perylene-d12	16.37	264	6081	4.00 ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	223860	39.49 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 789.80%#		
10) 2-Fluorobiphenyl	8.87	172	2092645	48.06 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 961.20%#		
16) 2,4,6-Tribromophenol	10.40	330	327670	144.06 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1440.60%#		
23) Terphenyl-d14	12.66	244	264691	54.17 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1083.40%#		

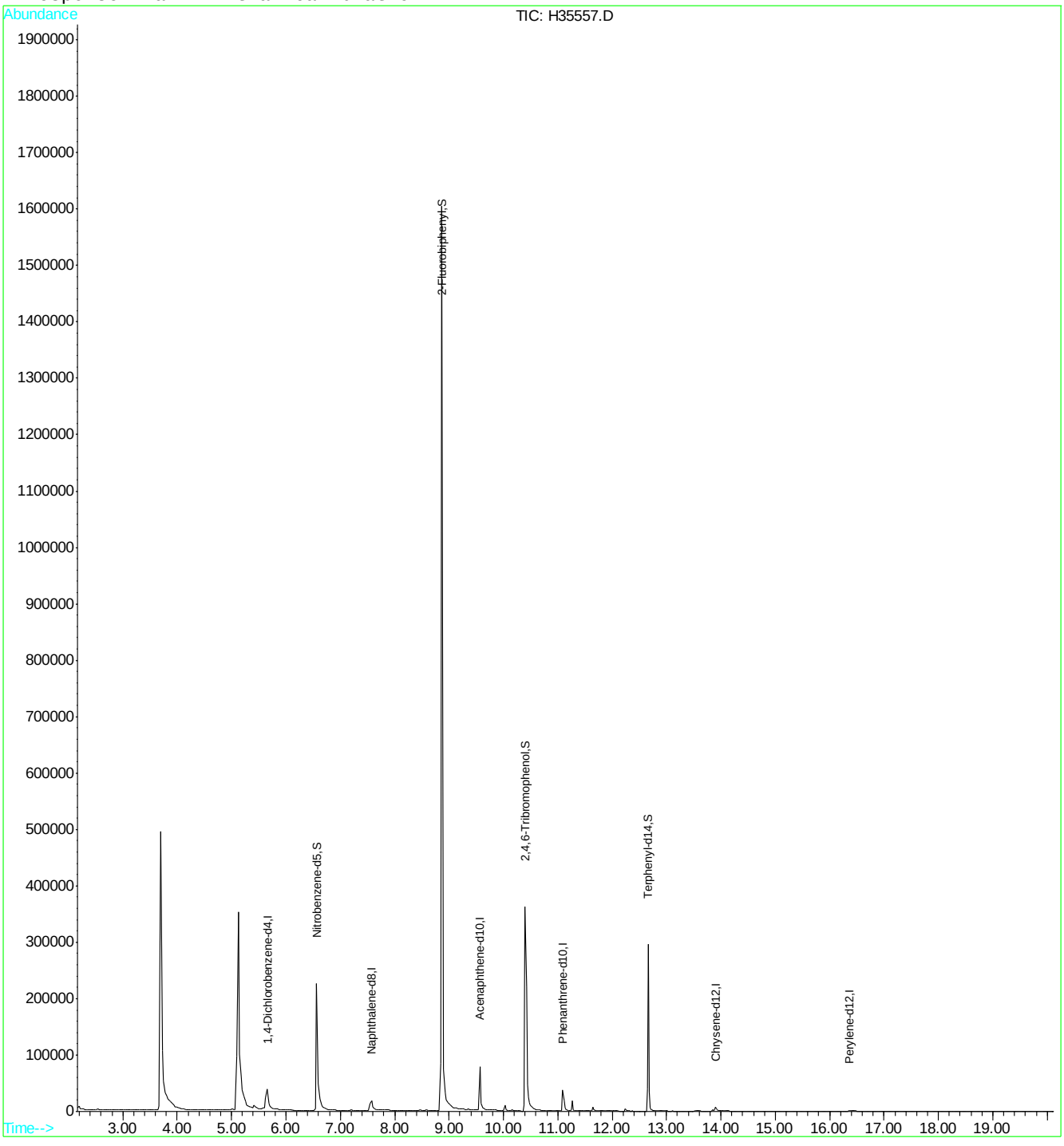
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H35557.D H10229SP.M Mon Oct 26 17:45:28 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35557.D Vial: 15
Acq On : 22 Oct 2009 6:11 pm Operator: sheilac
Sample : t39423-3 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 26 17:45 2009 Quant Results File: H10229SP.RES

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35558.D Vial: 16
Acq On : 22 Oct 2009 6:40 pm Operator: sheilac
Sample : t39423-4 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 19:26 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	92182	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	65406	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	71113	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	81737	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	16483	4.00	ppb	0.00
26) Perylene-d12	16.37	264	5496	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	221832	35.83	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 716.60%#			
10) 2-Fluorobiphenyl	8.87	172	2439119	42.50	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 850.00%#			
16) 2,4,6-Tribromophenol	10.40	330	329749	131.52	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1315.20%#			
23) Terphenyl-d14	12.66	244	282216	49.23	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 984.60%#			

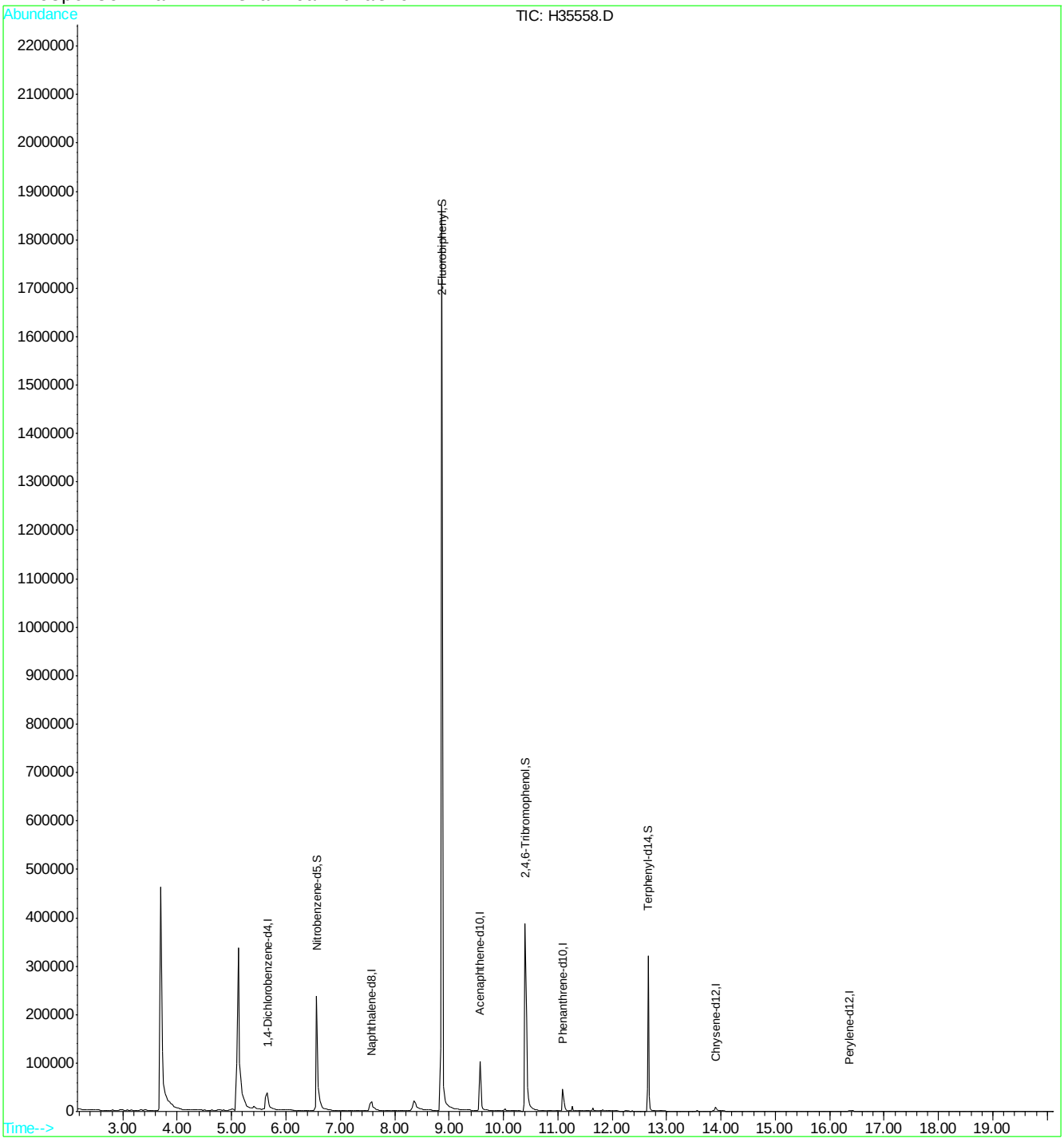
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H35558.D H10229SP.M Thu Oct 22 19:26:55 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35558.D Vial: 16
Acq On : 22 Oct 2009 6:40 pm Operator: sheilac
Sample : t39423-4 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 19:26 2009 Quant Results File: H10229SP.RES

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35559.D Vial: 17
Acq On : 22 Oct 2009 7:09 pm Operator: sheilac
Sample : t39423-5 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 19:27 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	107513	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	70740	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	76858	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	89776	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	13355	4.00	ppb	0.00
26) Perylene-d12	16.37	264	5552	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	200028	31.44	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 628.80%#			
10) 2-Fluorobiphenyl	8.87	172	2438411	39.31	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 786.20%#			
16) 2,4,6-Tribromophenol	10.40	330	358782	130.28	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1302.80%#			
23) Terphenyl-d14	12.66	244	287381	60.35	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1207.00%#			

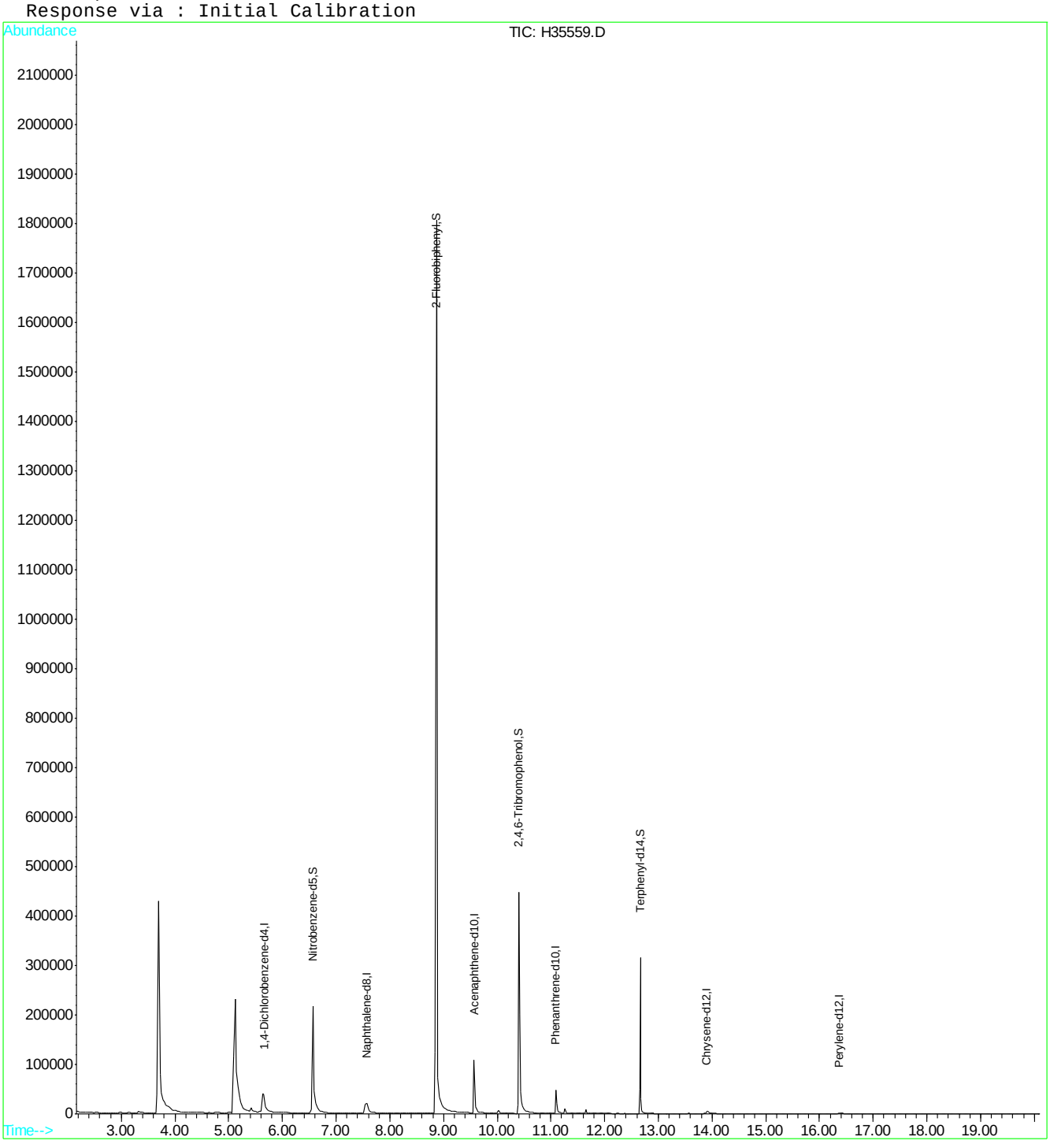
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H35559.D H10229SP.M Thu Oct 22 19:27:58 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35559.D Vial: 17
Acq On : 22 Oct 2009 7:09 pm Operator: sheilac
Sample : t39423-5 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 19:27 2009 Quant Results File: H10229SP.RES

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35560.D Vial: 18
Acq On : 22 Oct 2009 7:34 pm Operator: sheilac
Sample : t39423-6 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 12:32 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	96900	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	62318	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	68350	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	82190	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	14360	4.00	ppb	0.00
26) Perylene-d12	16.37	264	6150	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	201185	34.59	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 691.80%#			
10) 2-Fluorobiphenyl	8.87	172	2456121	44.53	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 890.60%#			
16) 2,4,6-Tribromophenol	10.40	330	359292	142.51	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1425.10%#			
23) Terphenyl-d14	12.66	244	286524	56.44	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1128.80%#			

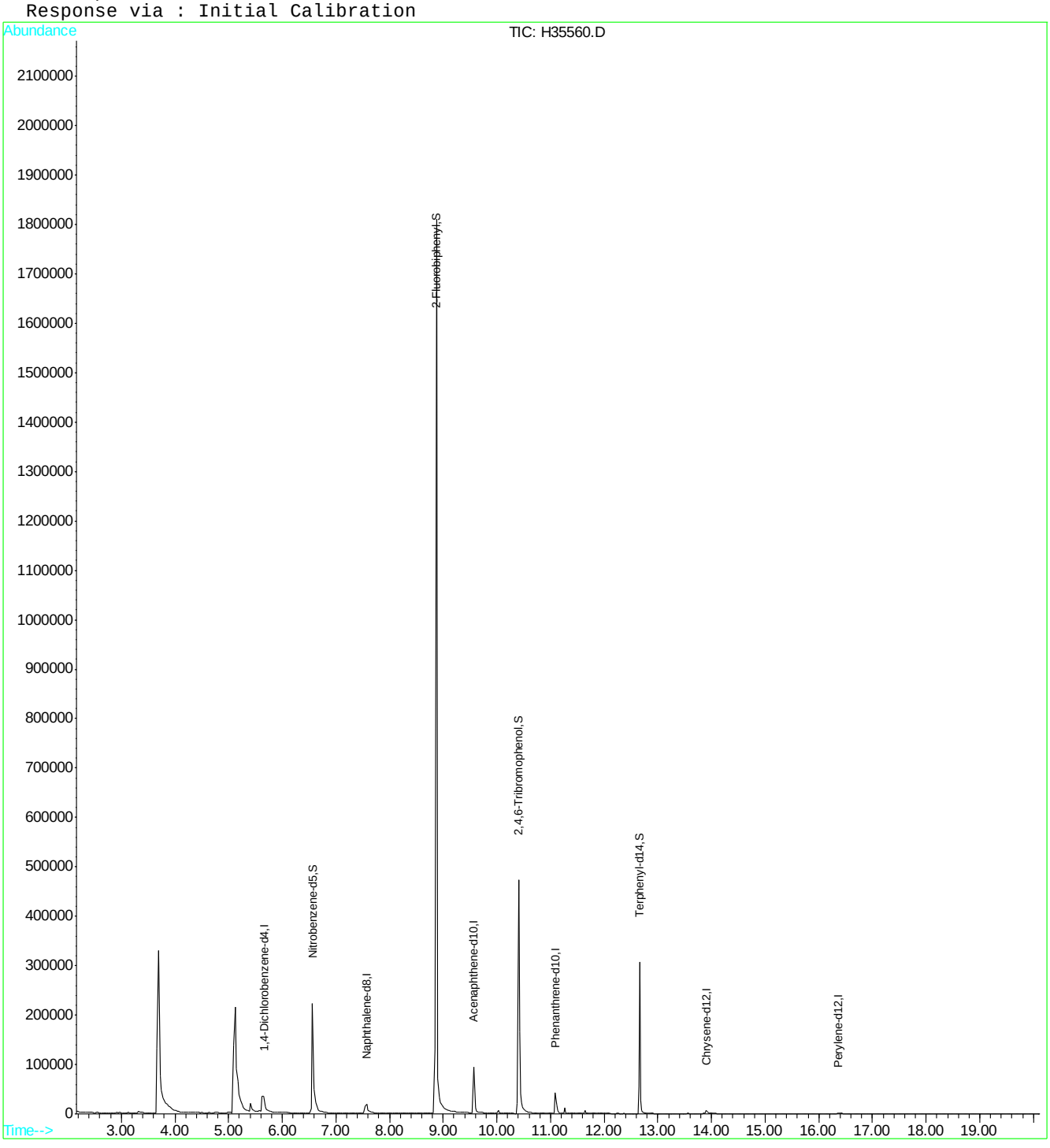
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H35560.D H10229SP.M Fri Oct 23 12:44:19 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35560.D Vial: 18
Acq On : 22 Oct 2009 7:34 pm Operator: sheilac
Sample : t39423-6 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 12:32 2009 Quant Results File: H10229SP.RES

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35561.D Vial: 19
Acq On : 22 Oct 2009 8:03 pm Operator: sheilac
Sample : t39423-7 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 12:33 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.63	152	94178	4.00	ppb	-0.03
4) Naphthalene-d8	7.57	136	56938	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	63710	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	71374	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	13876	4.00	ppb	0.00
26) Perylene-d12	16.37	264	5750	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	175430	33.45	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 669.00%#			
10) 2-Fluorobiphenyl	8.87	172	2313842	45.01	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 900.20%#			
16) 2,4,6-Tribromophenol	10.40	330	321717	146.94	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1469.40%#			
23) Terphenyl-d14	12.66	244	262613	53.84	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1076.80%#			

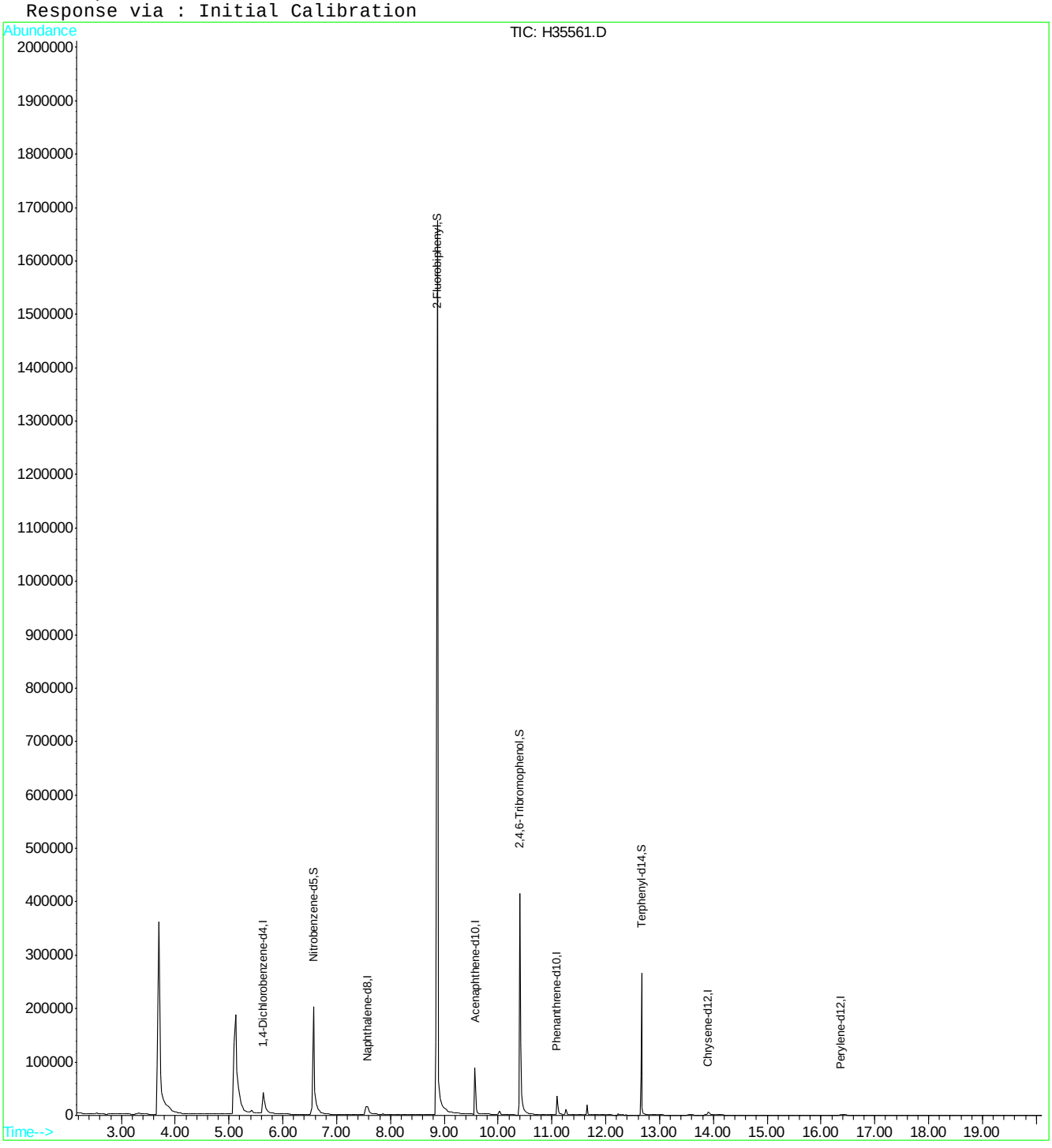
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H35561.D H10229SP.M Fri Oct 23 12:44:31 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35561.D Vial: 19
Acq On : 22 Oct 2009 8:03 pm Operator: sheilac
Sample : t39423-7 Inst : TXMSH
Misc : OP13270,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 12:33 2009 Quant Results File: H10229SP.RES

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13786.D
Acq On : 13 Oct 2009 11:59 am
Operator : sheilac
Sample : op13230-mb
Misc : op13230,Ej633,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 13 12:25:51 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration

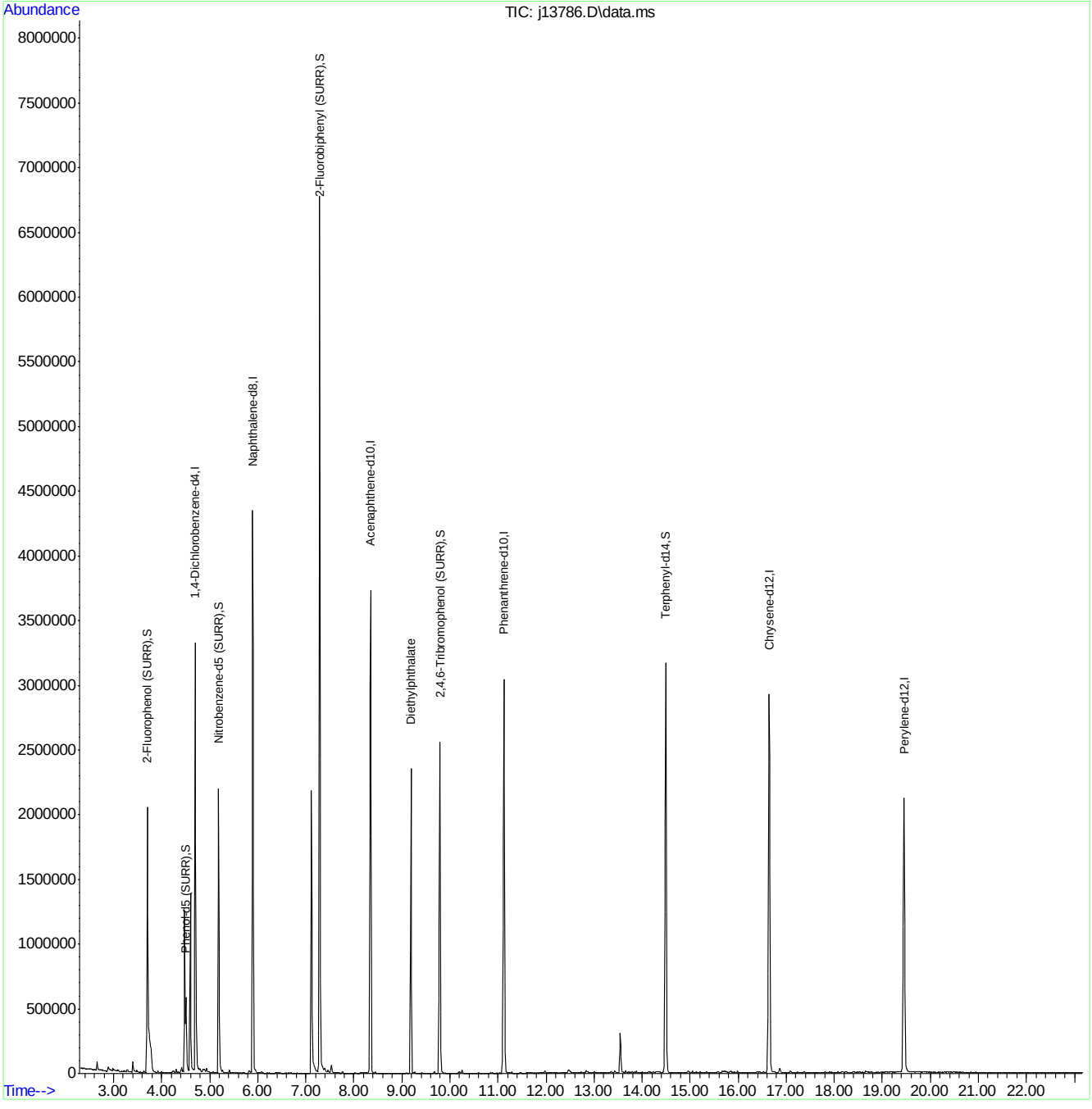
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.699	152	578111	40.00	ug/ml	-0.03
20) Naphthalene-d8	5.897	136	2116777	40.00	ug/ml	-0.05
36) Acenaphthene-d10	8.347	164	1236902	40.00	ug/ml	-0.07
57) Phenanthrene-d10	11.128	188	1909318	40.00	ug/ml	-0.07
71) Chrysene-d12	16.648	240	2091599	40.00	ug/ml	-0.09
80) Perylene-d12	19.456	264	1671743	40.00	ug/ml	-0.07
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.704	112	834226	45.98	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 45.98%			
5) Phenol-d5 (SURR)	4.507	99	241154	10.64	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 10.64%			
21) Nitrobenzene-d5 (SURR)	5.186	82	803845	36.21	ug/ml	-0.11
Spiked Amount 50.000	Range 29 - 115		Recovery = 72.42%			
40) 2-Fluorobiphenyl (SURR)	7.288	172	1549318	31.06	ug/ml	-0.26
Spiked Amount 50.000	Range 34 - 113		Recovery = 62.12%			
62) 2,4,6-Tribromophenol (...	9.791	330	433299	67.45	ug/ml	-0.17
Spiked Amount 100.000	Range 32 - 128		Recovery = 67.45%			
74) Terphenyl-d14	14.492	244	1633042	32.70	ug/ml	-0.10
Spiked Amount 50.000	Range 12 - 145		Recovery = 65.40%			
Target Compounds						Qvalue
53) Diethylphthalate	9.192	149	652380	15.14	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

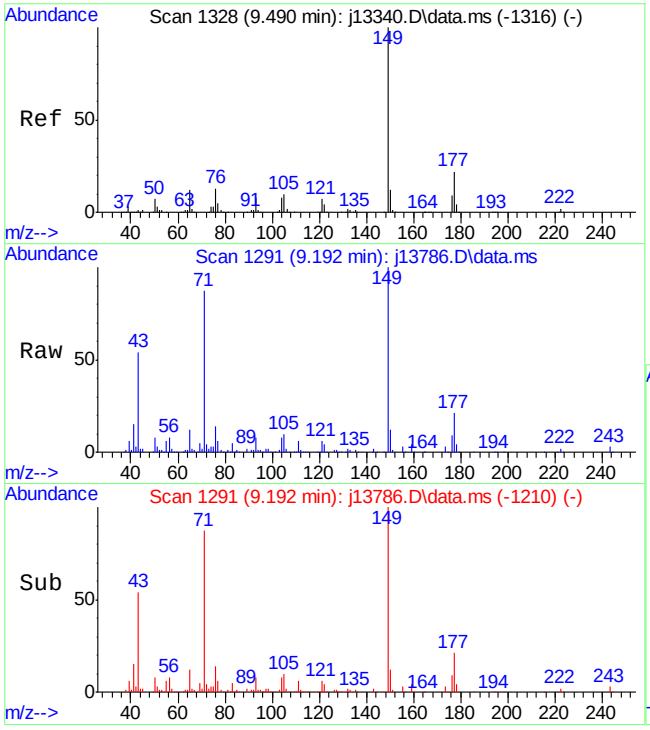
Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13786.D
Acq On : 13 Oct 2009 11:59 am
Operator : sheilac
Sample : op13230-mb
Misc : op13230,Ej633,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 13 12:25:51 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration



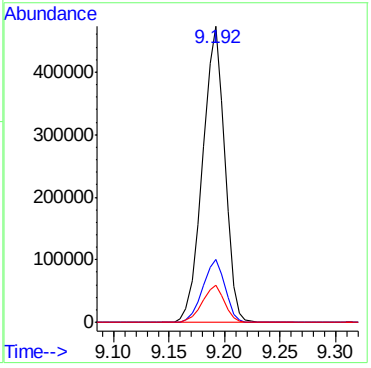
ACCUTEST Laboratories T39423



#53
Diethylphthalate
Concen: 15.14 ug/ml
RT: 9.192 min Scan# 1291
Delta R.T. -0.064 min
Lab File: j13786.D
Acq: 13 Oct 2009 11:59 am

Tgt Ion:149 Resp: 652380

Ion	Ratio	Lower	Upper
149	100		
177	21.4	2.2	42.2
150	12.4	0.0	32.2



8.2.1

8

ACCUTEST Laboratories T39423

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13786.D
Acq On : 13 Oct 2009 11:59 am
Operator : sheilac
Sample : op13230-mb
Misc : op13230,Ej633,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\1\METHODS\ej615mg.m
Title :

Signal : TIC: j13786.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.399	205	208	221	rBV	82239	108600	1.13%	0.164%
2	3.704	262	265	290	rBV	2053485	3256708	33.74%	4.931%
3	4.480	406	410	413	rBV	1244819	1381067	14.31%	2.091%
4	4.507	413	415	425	rVB	566896	704095	7.30%	1.066%
5	4.597	427	432	443	rVB	1362179	1494521	15.48%	2.263%
6	4.699	447	451	464	rBV	3297471	3896959	40.38%	5.900%
7	5.186	537	542	554	rBV	2197703	2546235	26.38%	3.855%
8	5.897	669	675	684	rBV	4341021	4909695	50.87%	7.434%
9	7.117	897	903	928	rBV	2187229	3051458	31.62%	4.620%
10	7.293	928	936	951	rBV2	6764344	9651714	100.00%	14.613%
11	8.347	1125	1133	1146	rVB	3733449	5546810	57.47%	8.398%
12	9.192	1283	1291	1297	rBV	2354953	3325898	34.46%	5.036%
13	9.791	1392	1403	1420	rBV	2562670	4102204	42.50%	6.211%
14	11.128	1641	1653	1669	rBV2	3046692	5384696	55.79%	8.153%
15	13.546	2099	2105	2114	rBV	306220	516839	5.35%	0.783%
16	14.492	2269	2282	2295	rBV	3165579	5660139	58.64%	8.570%
17	16.648	2673	2685	2701	rBV	2926658	5830310	60.41%	8.827%
18	19.456	3198	3210	3228	rBV	2119225	4679314	48.48%	7.085%

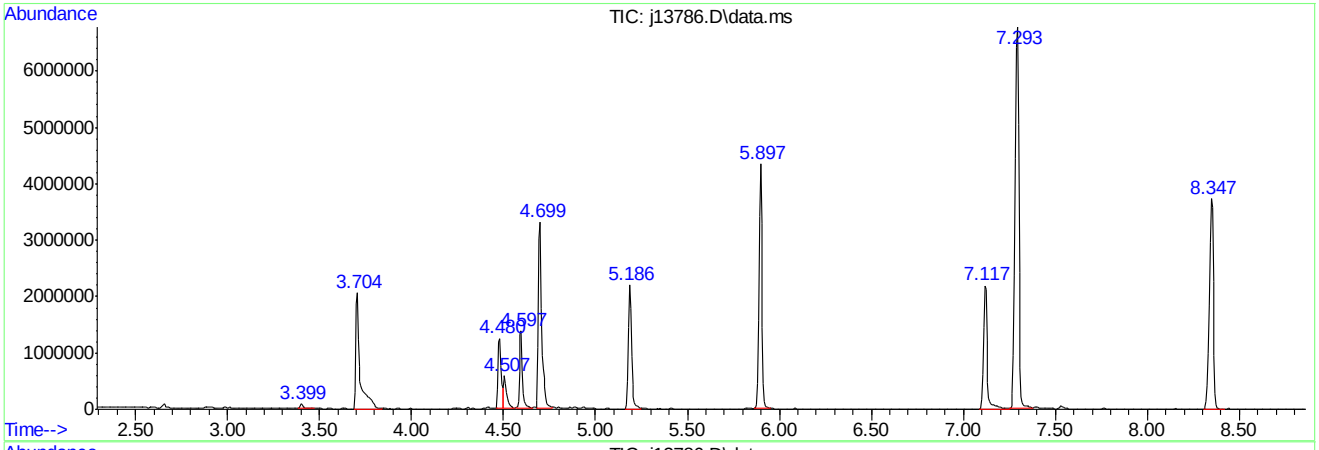
Sum of corrected areas: 66047262

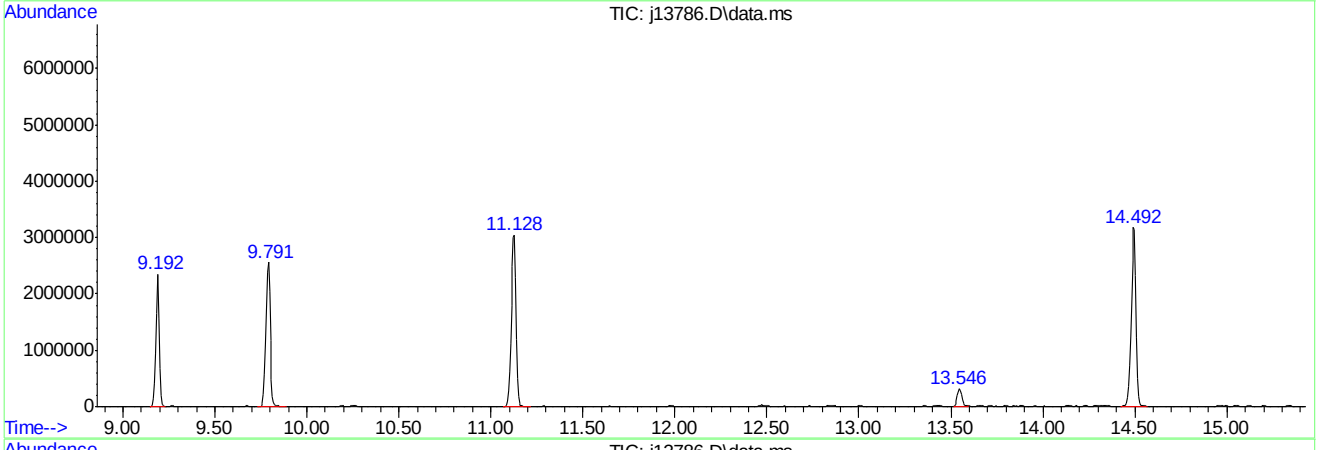
LSC Report - Integrated Chromatogram

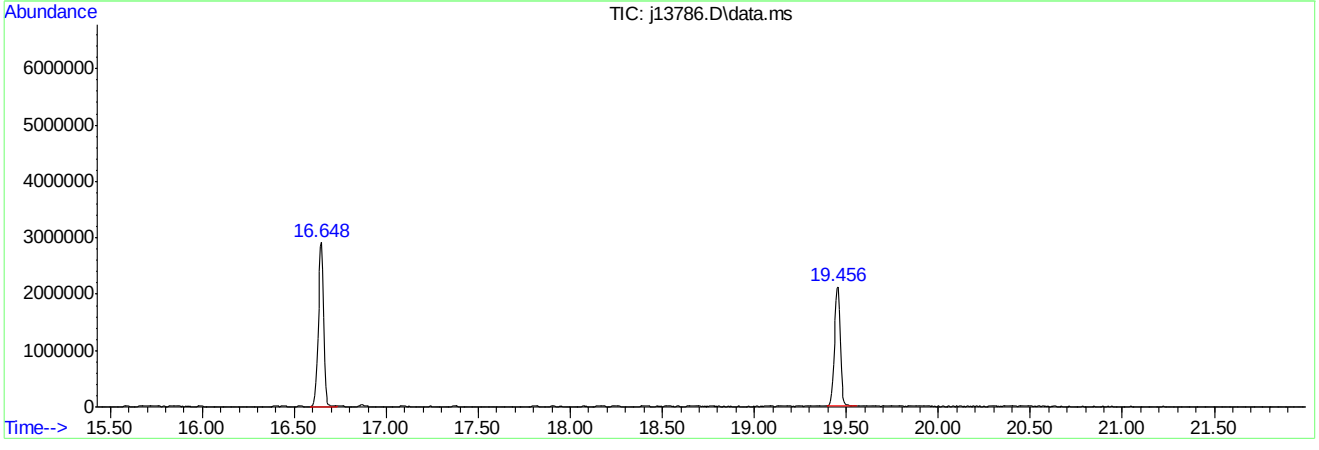
```
Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13786.D
Acq On    : 13 Oct 2009  11:59 am
Operator  : sheilac
Sample    : op13230-mb
Misc      : op13230,Ej633,1000,,,1,1,water
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```







Library Search Compound Report

```
Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13786.D
Acq On    : 13 Oct 2009  11:59 am
Operator  : sheilac
Sample    : op13230-mb
Misc      : op13230,Ej633,1000,,,1,1,water
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

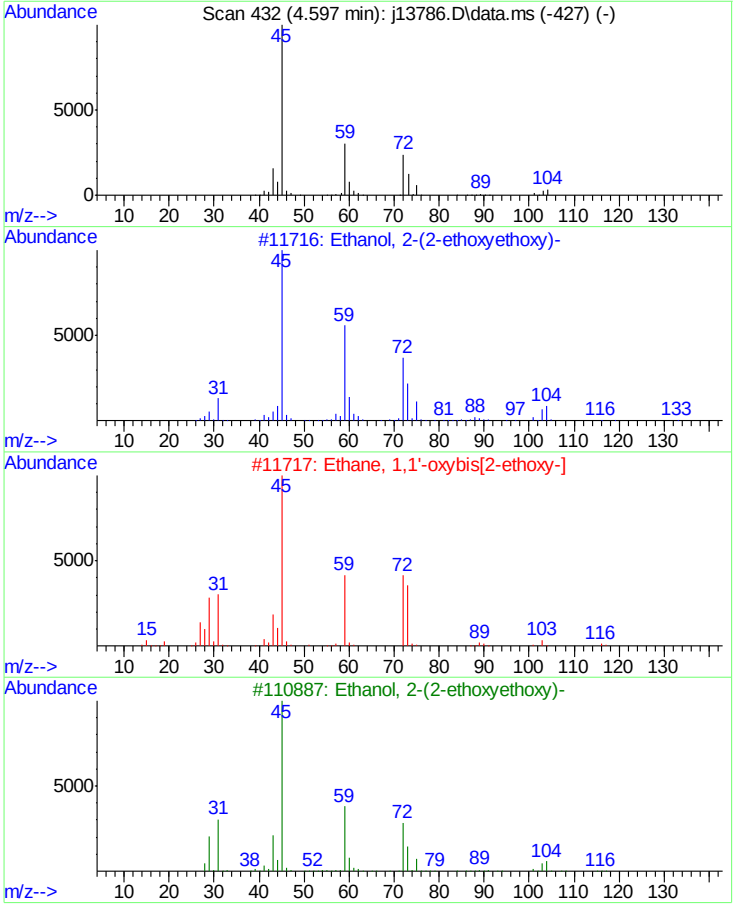
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

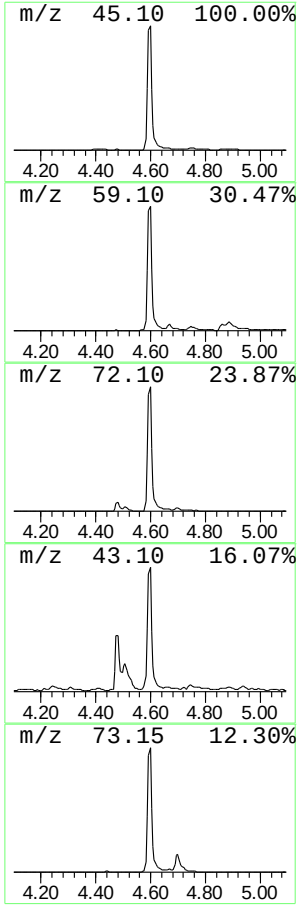
****

Peak Number 1 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.597	15.34 ug/ml	1494520	1,4-Dichlorobenzene-d4	4.699

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	64
2	Ethane, 1,1'-oxybis[2-ethoxy-]	162	C8H18O3	000112-36-7	56
3	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	53
4	Ethanol, 2-(2-ethoxyethoxy)-	134	C6H14O3	000111-90-0	53
5	2-Propanol, 1-(1-methylethoxy)-	118	C6H14O2	003944-36-3	45





Library Search Compound Report

```
Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13786.D
Acq On    : 13 Oct 2009  11:59 am
Operator  : sheilac
Sample    : op13230-mb
Misc      : op13230,Ej633,1000,,,1,1,water
ALS Vial  : 4   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

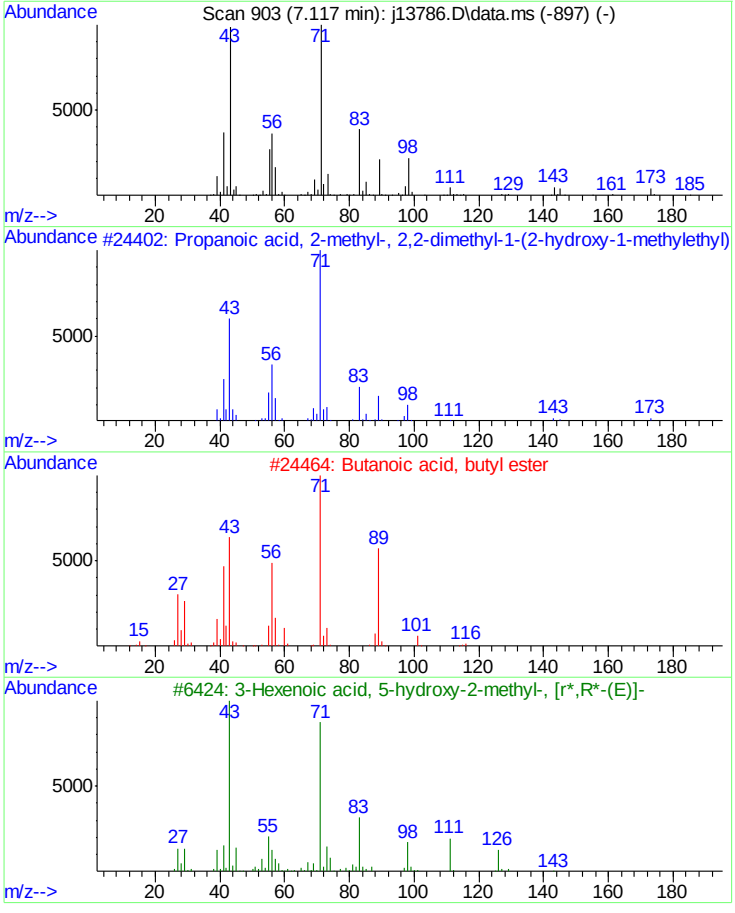
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

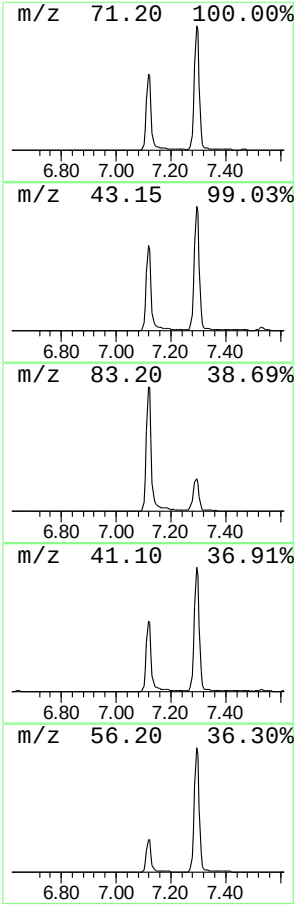
****

Peak Number 2 Propanoic acid, 2-methyl-, ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.117	24.86 ug/ml	3051460	Naphthalene-d8	5.897

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, 2-methyl-, 2,2-d...	216	C12H24O3	074367-33-2	59
2	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	47
3	3-Hexenoic acid, 5-hydroxy-2-met...	144	C7H12O3	110678-36-9	45
4	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	37
5	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	37





Tentatively Identified Compound (LSC) summary

```
  Data Path : C:\msdchem\1\DATA\ej633\
  Data File : j13786.D
  Acq On    : 13 Oct 2009  11:59 am
  Operator  : sheilac
  Sample    : op13230-mb
  Misc      : op13230,Ej633,1000,,,1,1,water
  ALS Vial  : 4   Sample Multiplier: 1

  Quant Method : C:\msdchem\1\METHODS\ej615mg.m
  Quant Title  :

  TIC Library   : C:\Database\NIST98.L
  TIC Integration Parameters: LSCINT.P
```

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Ethanol, 2-(2-e...	4.597	15.3	ug/ml	1494520	1	4.699	3896960	40.0
Propanoic acid,...	7.117	24.9	ug/ml	3051460	2	5.897	4909700	40.0

8.2.2

8

ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35520.D Vial: 9
Acq On : 21 Oct 2009 2:31 pm Operator: sheilac
Sample : op13270-mb Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 15:07 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 14:48:19 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	69791	4.00 ppb	0.00
4) Naphthalene-d8	7.56	136	64084	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	39063	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	59399	4.00 ppb	0.00
21) Chrysene-d12	13.89	240	35168	4.00 ppb	0.00
26) Perylene-d12	16.35	264	7436	4.00 ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	131499	47.85 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 957.00%#		
10) 2-Fluorobiphenyl	8.87	172	1579499	60.02 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 1200.40%#		
16) 2,4,6-Tribromophenol	10.40	330	283379	146.36 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1463.60%#		
23) Terphenyl-d14	12.66	244	369544	55.36 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1107.20%#		

Target Compounds Qvalue

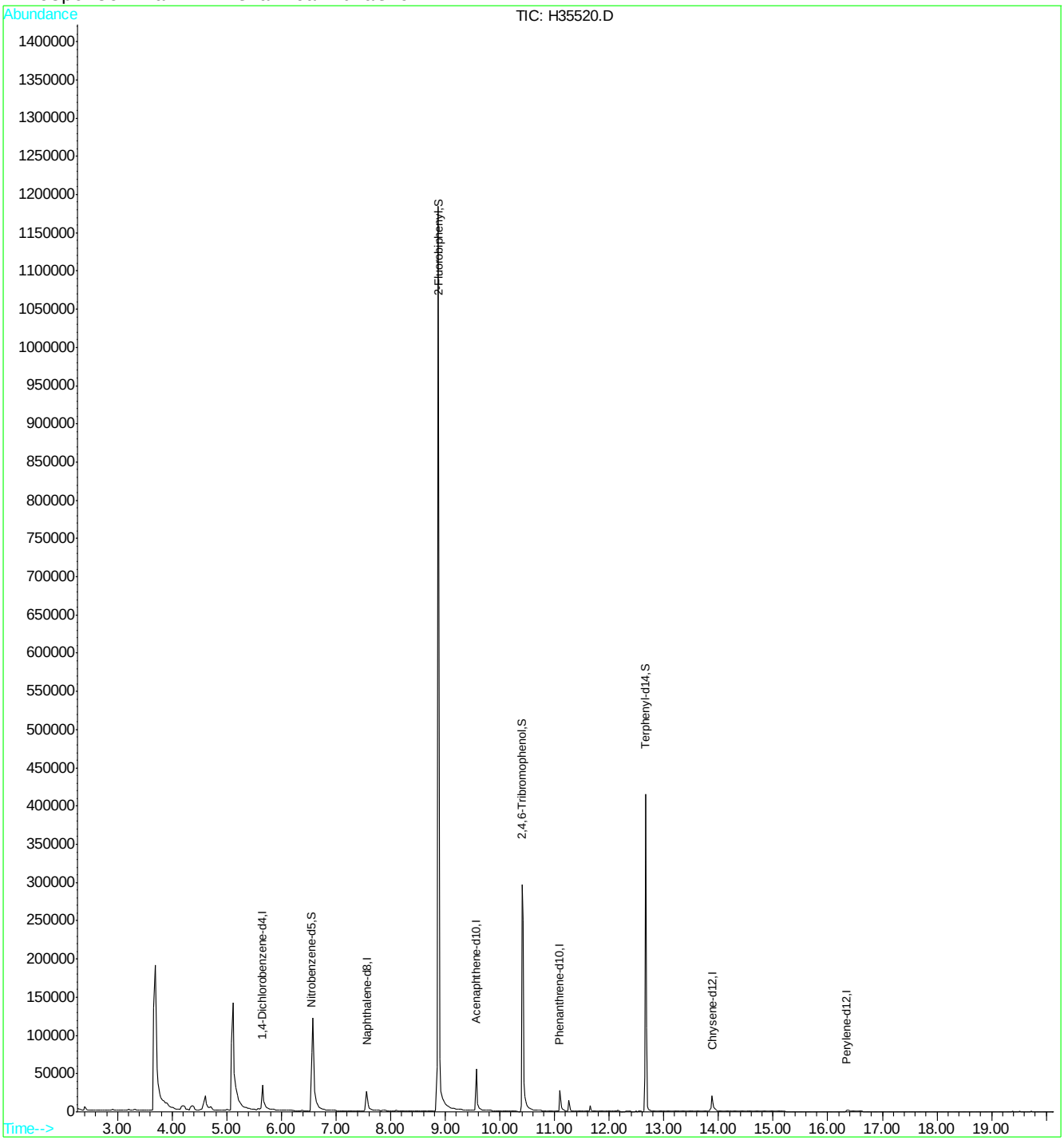
(#) = qualifier out of range (m) = manual integration
H35520.D H10219SP.M Wed Oct 21 15:08:06 2009

ACCUTEST Laboratories T39423

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35520.D Vial: 9
Acq On : 21 Oct 2009 2:31 pm Operator: sheilac
Sample : op13270-mb Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 15:07 2009 Quant Results File: H10219SP.RES

Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 14:48:19 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13791.D
Acq On : 13 Oct 2009 2:25 pm
Operator : sheilac
Sample : op13230-bs,(8270)
Misc : op13230,Ej633,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 12:22:34 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	585680	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.908	136	2331791	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.363	164	1207031	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.139	188	1813814	40.00	ug/ml	-0.06
71) Chrysene-d12	16.664	240	1659011	40.00	ug/ml	-0.07
80) Perylene-d12	19.461	264	933588	40.00	ug/ml	-0.06
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.710	112	808352	43.98	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 43.98%			
5) Phenol-d5 (SURR)	4.480	99	673073	29.30	ug/ml	-0.02
Spiked Amount 100.000	Range 10 - 53		Recovery = 29.30%			
21) Nitrobenzene-d5 (SURR)	5.197	82	867288	35.47	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery = 70.94%			
40) 2-Fluorobiphenyl (SURR)	7.299	172	1806061	38.41	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery = 76.82%			
62) 2,4,6-Tribromophenol (...	9.812	330	537452	88.07	ug/ml	-0.15
Spiked Amount 100.000	Range 32 - 128		Recovery = 88.07%			
74) Terphenyl-d14	14.503	244	1730889	43.69	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery = 87.38%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.447	74	194149	19.72	ug/ml	89
3) Pyridine	2.437	79	105798	6.09	ug/ml	99
6) Phenol	4.496	94	389944	15.69	ug/ml#	79
7) Aniline	4.453	93	430752	16.35	ug/ml	96
8) bis(2-Chloroethyl)ether	4.501	93	775360	31.82	ug/ml	98
9) 2-Chlorophenol	4.560	128	674784	35.00	ug/ml	99
10) 1,3-Dichlorobenzene	4.656	146	592515	27.12	ug/ml	98
11) 1,4-Dichlorobenzene	4.715	146	640371	27.33	ug/ml	88
12) Benzyl Alcohol	4.849	108	373467	27.80	ug/ml	97
13) 1,2-Dichlorobenzene	4.844	146	616671	28.05	ug/ml	100
14) 2-Methylphenol	4.972	108	506570	29.07	ug/ml	100
15) bis(2-chloroisopropyl)...	4.940	45	1070425	34.69	ug/ml	98
16) 4-Methylphenol	5.106	108	1023415	55.51	ug/ml#	67
17) m+p-Cresols	5.106	108	1023415	55.51	ug/ml#	67
18) n-Nitroso-di-n-propyla...	5.074	70	648926	38.81	ug/ml	99
19) Hexachloroethane	5.138	117	218879	25.60	ug/ml	100
22) Nitrobenzene	5.213	77	832950	34.68	ug/ml	98
23) Isophorone	5.443	82	1550882	35.17	ug/ml	100
24) 2-Nitrophenol	5.517	139	370064	33.51	ug/ml	96
25) 2,4-Dimethylphenol	5.587	122	426265	23.34	ug/ml	97
26) bis(2-Chloroethoxy)met...	5.651	93	822925	33.86	ug/ml	100
27) Benzoic Acid	5.742	105	159565	17.60	ug/ml	95
28) 2,4-Dichlorophenol	5.790	162	544441	33.90	ug/ml	100
29) 1,2,4-Trichlorobenzene	5.844	180	495708	25.65	ug/ml	99
30) Naphthalene	5.929	128	1897353	29.88	ug/ml	98
31) 4-Chloroaniline	5.999	127	494656	22.96	ug/ml	94
32) Hexachlorobutadiene	6.074	225	289455	23.85	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13791.D
Acq On : 13 Oct 2009 2:25 pm
Operator : sheilac
Sample : op13230-bs,(8270)
Misc : op13230,Ej633,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 12:22:34 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.630	107	651616	35.92	ug/ml	99
34) 2-Methylnaphthalene	6.769	142	1282833	33.06	ug/ml	99
35) 1-Methylnaphthalene	6.903	142	1263677	31.10	ug/ml	99
37) Hexachlorocyclopentadiene	6.999	237	36888	12.63	ug/ml	97
38) 2,4,6-Trichlorophenol	7.197	196	408116	40.52	ug/ml	100
39) 2,4,5-Trichlorophenol	7.277	196	446595	37.96	ug/ml	99
41) 2-Chloronaphthalene	7.464	162	1280576	37.97	ug/ml	98
42) 2-Nitroaniline	7.652	65	508897	44.88	ug/ml	97
43) Dimethylphthalate	7.972	163	1789849	44.16	ug/ml	100
44) Acenaphthylene	8.122	152	2254926	39.45	ug/ml	100
45) 2,6-Dinitrotoluene	8.058	165	406202	42.59	ug/ml#	81
46) 3-Nitroaniline	8.347	138	344904	39.33	ug/ml	96
47) Acenaphthene	8.422	154	1320750	39.33	ug/ml	100
48) 2,4-Dinitrophenol	8.539	184	148281	48.45	ug/ml	95
49) 4-Nitrophenol	8.823	65	98484	19.79	ug/ml	89
50) Dibenzofuran	8.721	168	1971761	41.10	ug/ml	99
51) 2,4-Dinitrotoluene	8.759	165	530134	46.42	ug/ml	97
52) 2,3,4,6-Tetrachlorophenol	8.989	232	365658	41.23	ug/ml	99
53) Diethylphthalate	9.219	149	1993901	47.41	ug/ml	99
54) Fluorene	9.342	166	1739874	41.61	ug/ml	99
55) 4-Chlorophenyl-phenyle...	9.363	204	825001	38.77	ug/ml	98
56) 4-Nitroaniline	9.459	138	297656	43.60	ug/ml	93
58) 1,2-Diphenylhydrazine	9.668	77	1958951	42.47	ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.524	198	243476	42.33	ug/ml	100
60) Diphenylamine	9.609	169	1225618	36.11	ug/ml	100
61) n-Nitrosodiphenylamine	9.609	169	1225618	36.11	ug/ml	100
63) 4-Bromophenyl-phenylether	10.288	248	476114	41.58	ug/ml	98
64) Hexachlorobenzene	10.411	284	545635	43.73	ug/ml	97
65) Pentachlorophenol	10.839	266	195350	46.03	ug/ml	98
66) Phenanthrene	11.187	178	2341484	43.33	ug/ml	100
67) Anthracene	11.289	178	2224745	42.76	ug/ml	100
68) Carbazole	11.663	167	1842697	43.99	ug/ml	99
69) Di-n-butylphthalate	12.492	149	3162369	48.73	ug/ml	99
70) Fluoranthene	13.631	202	2443494	49.87	ug/ml	99
73) Pyrene	14.086	202	2405835	41.16	ug/ml	100
75) Butylbenzylphthalate	15.605	149	1171083	44.98	ug/ml	99
76) Benzo(a)anthracene	16.637	228	2202997	47.20	ug/ml	99
77) 3,3'-Dichlorobenzidine	16.648	252	467358	40.86	ug/ml	98
78) Chrysene	16.717	228	1911000	48.58	ug/ml	100
79) bis(2-Ethylhexyl)phtha...	16.883	149	1626292	46.49	ug/ml	98
81) Di-n-octylphthalate	18.172	149	2381089	48.83	ug/ml	100
82) Benzo(b)fluoranthene	18.777	252	1520842	49.29	ug/ml	96
83) Benzo(k)fluoranthene	18.830	252	1557595	55.27	ug/ml	99
84) Benzo(a)pyrene	19.360	252	1189502	45.16	ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.537	276	1141889	51.41	ug/ml	97
86) Dibenz(a,h)anthracene	21.558	278	951230	51.60	ug/ml	97
87) Benzo(g,h,i)perylene	22.109	276	828721	49.39	ug/ml	99

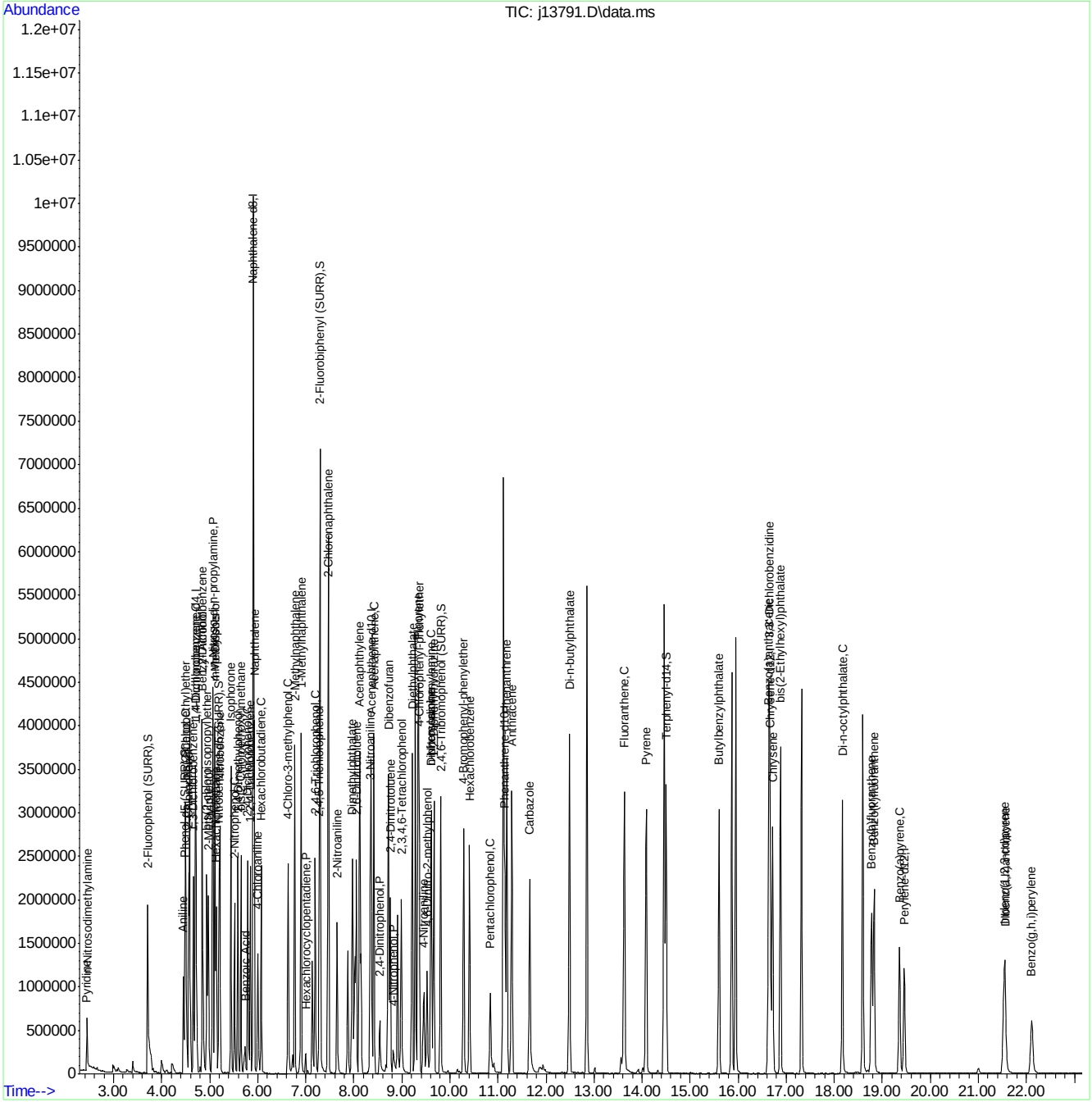
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13791.D
Acq On : 13 Oct 2009 2:25 pm
Operator : sheilac
Sample : op13230-bs,(8270)
Misc : op13230,Ej633,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 14 12:22:34 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13792.D
Acq On : 13 Oct 2009 2:55 pm
Operator : sheilac
Sample : op13230-bsd,(8270)
Misc : op13230,Ej633,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 12:22:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.699	152	546438	40.00	ug/ml	-0.03
20) Naphthalene-d8	5.908	136	2211198	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.363	164	1170125	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.139	188	1851081	40.00	ug/ml	-0.06
71) Chrysene-d12	16.664	240	1596670	40.00	ug/ml	-0.07
80) Perylene-d12	19.456	264	909364	40.00	ug/ml	-0.07
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.710	112	759927	44.32	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 44.32%			
5) Phenol-d5 (SURR)	4.480	99	638349	29.78	ug/ml	-0.02
Spiked Amount 100.000	Range 10 - 53		Recovery = 29.78%			
21) Nitrobenzene-d5 (SURR)	5.197	82	828930	35.75	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery = 71.50%			
40) 2-Fluorobiphenyl (SURR)	7.299	172	1730257	37.96	ug/ml	-0.24
Spiked Amount 50.000	Range 34 - 113		Recovery = 75.92%			
62) 2,4,6-Tribromophenol (...	9.812	330	539817	86.67	ug/ml	-0.15
Spiked Amount 100.000	Range 32 - 128		Recovery = 86.67%			
74) Terphenyl-d14	14.503	244	1789877	46.95	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery = 93.90%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.447	74	156100	17.00	ug/ml#	73
3) Pyridine	2.442	79	103977	6.42	ug/ml	98
6) Phenol	4.496	94	370090	15.96	ug/ml#	78
7) Aniline	4.453	93	395693	16.14	ug/ml	95
8) bis(2-Chloroethyl)ether	4.496	93	739564	32.53	ug/ml	98
9) 2-Chlorophenol	4.560	128	635377	35.32	ug/ml	99
10) 1,3-Dichlorobenzene	4.656	146	563391	27.64	ug/ml	99
11) 1,4-Dichlorobenzene	4.715	146	600805	27.48	ug/ml	88
12) Benzyl Alcohol	4.849	108	352598	28.13	ug/ml	97
13) 1,2-Dichlorobenzene	4.844	146	582816	28.41	ug/ml	99
14) 2-Methylphenol	4.972	108	479311	29.48	ug/ml	99
15) bis(2-chloroisopropyl)...	4.940	45	1014827	35.24	ug/ml	98
16) 4-Methylphenol	5.106	108	978706	56.90	ug/ml#	66
17) m+p-Cresols	5.106	108	978706	56.90	ug/ml#	66
18) n-Nitroso-di-n-propyla...	5.074	70	614743	39.40	ug/ml	99
19) Hexachloroethane	5.138	117	207322	25.99	ug/ml	100
22) Nitrobenzene	5.213	77	794604	34.89	ug/ml	98
23) Isophorone	5.443	82	1477387	35.33	ug/ml	99
24) 2-Nitrophenol	5.517	139	354878	33.89	ug/ml	97
25) 2,4-Dimethylphenol	5.587	122	400849	23.15	ug/ml	96
26) bis(2-Chloroethoxy)met...	5.651	93	780844	33.88	ug/ml	100
27) Benzoic Acid	5.742	105	159087	18.50	ug/ml	95
28) 2,4-Dichlorophenol	5.790	162	517364	33.97	ug/ml	100
29) 1,2,4-Trichlorobenzene	5.844	180	472429	25.78	ug/ml	100
30) Naphthalene	5.929	128	1814792	30.13	ug/ml	98
31) 4-Chloroaniline	5.999	127	506056	24.54	ug/ml	97
32) Hexachlorobutadiene	6.074	225	275252	23.92	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13792.D
Acq On : 13 Oct 2009 2:55 pm
Operator : sheilac
Sample : op13230-bsd,(8270)
Misc : op13230,Ej633,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 12:22:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

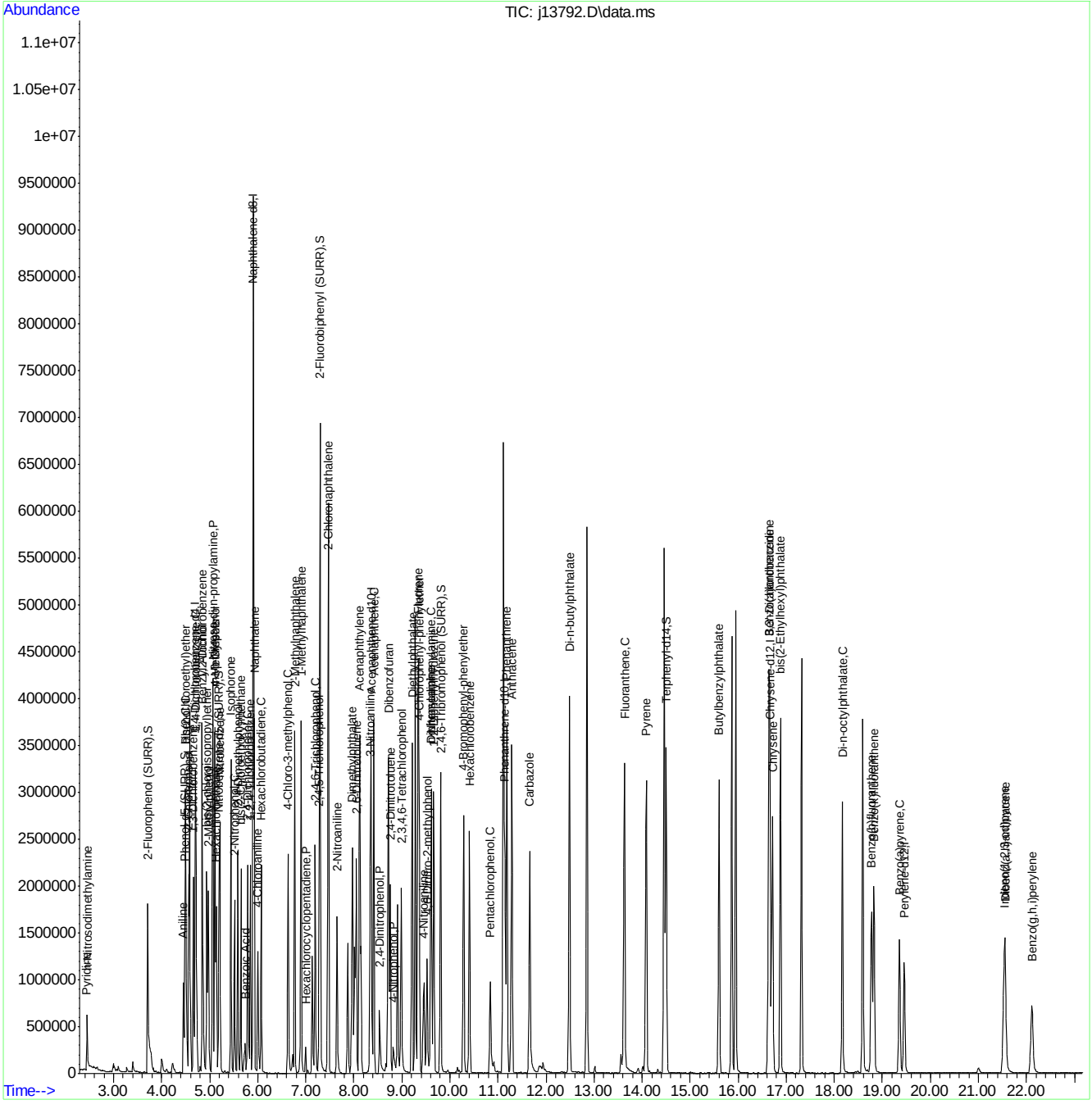
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.630	107	629209	36.58 ug/ml	99
34) 2-Methylnaphthalene	6.769	142	1229649	33.42 ug/ml	100
35) 1-Methylnaphthalene	6.903	142	1220111	31.66 ug/ml	99
37) Hexachlorocyclopentadiene	6.999	237	45881	14.59 ug/ml	97
38) 2,4,6-Trichlorophenol	7.197	196	391685	40.11 ug/ml	100
39) 2,4,5-Trichlorophenol	7.277	196	437065	38.29 ug/ml	100
41) 2-Chloronaphthalene	7.464	162	1237055	37.84 ug/ml	98
42) 2-Nitroaniline	7.652	65	498195	45.32 ug/ml	98
43) Dimethylphthalate	7.972	163	1743995	44.38 ug/ml	100
44) Acenaphthylene	8.122	152	2198356	39.67 ug/ml	100
45) 2,6-Dinitrotoluene	8.058	165	397352	42.98 ug/ml#	80
46) 3-Nitroaniline	8.347	138	342088	40.18 ug/ml	96
47) Acenaphthene	8.416	154	1276944	39.22 ug/ml	100
48) 2,4-Dinitrophenol	8.539	184	162127	53.19 ug/ml	94
49) 4-Nitrophenol	8.823	65	102965	21.09 ug/ml	90
50) Dibenzofuran	8.721	168	1941409	41.74 ug/ml	99
51) 2,4-Dinitrotoluene	8.759	165	531824	48.03 ug/ml	88
52) 2,3,4,6-Tetrachlorophenol	8.989	232	367518	42.63 ug/ml	100
53) Diethylphthalate	9.219	149	1983671	48.66 ug/ml	99
54) Fluorene	9.342	166	1724303	42.54 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.363	204	811287	39.29 ug/ml	98
56) 4-Nitroaniline	9.459	138	312251	47.18 ug/ml	97
58) 1,2-Diphenylhydrazine	9.663	77	1928392	40.96 ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.524	198	264075	44.62 ug/ml	100
60) Diphenylamine	9.609	169	1221287	35.25 ug/ml	100
61) n-Nitrosodiphenylamine	9.609	169	1221287	35.25 ug/ml	100
63) 4-Bromophenyl-phenylether	10.288	248	478518	40.95 ug/ml	98
64) Hexachlorobenzene	10.411	284	549874	43.19 ug/ml	97
65) Pentachlorophenol	10.839	266	204765	46.96 ug/ml	100
66) Phenanthrene	11.187	178	2404194	43.59 ug/ml	100
67) Anthracene	11.289	178	2312884	43.56 ug/ml	100
68) Carbazole	11.663	167	1937587	45.32 ug/ml	100
69) Di-n-butylphthalate	12.492	149	3256688	49.17 ug/ml	99
70) Fluoranthene	13.637	202	2524746	50.50 ug/ml	99
73) Pyrene	14.091	202	2487599	44.22 ug/ml	99
75) Butylbenzylphthalate	15.605	149	1176087	46.94 ug/ml	99
76) Benzo(a)anthracene	16.643	228	2134001	47.51 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.643	252	435871	39.59 ug/ml	98
78) Chrysene	16.718	228	1823124	48.15 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	16.883	149	1566759	46.54 ug/ml	98
81) Di-n-octylphthalate	18.172	149	2198535	46.52 ug/ml	100
82) Benzo(b)fluoranthene	18.777	252	1454537	48.40 ug/ml	96
83) Benzo(k)fluoranthene	18.825	252	1542409	56.19 ug/ml	99
84) Benzo(a)pyrene	19.360	252	1154212	44.98 ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.537	276	1258908	58.19 ug/ml	97
86) Dibenz(a,h)anthracene	21.558	278	1050816	58.52 ug/ml	97
87) Benzo(g,h,i)perylene	22.114	276	952983	58.31 ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13792.D
Acq On : 13 Oct 2009 2:55 pm
Operator : sheilac
Sample : op13230-bsd,(8270)
Misc : op13230,Ej633,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 14 12:22:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35521.D Vial: 10
Acq On : 21 Oct 2009 2:54 pm Operator: sheilac
Sample : op13270-bs Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:09 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 11:44:03 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	79921	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	84780	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	42809	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	78803	4.00	ppb	0.00
21) Chrysene-d12	13.89	240	43314	4.00	ppb	0.00
26) Perylene-d12	16.35	264	7925	4.00	ppb	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	6.58	82	12982	3.57	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery	=	71.40%	
10) 2-Fluorobiphenyl	8.87	172	121480	4.21	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	84.20%	
16) 2,4,6-Tribromophenol	10.40	330	24860	9.68	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	=	96.80%	
23) Terphenyl-d14	12.66	244	33598	4.09	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	81.80%	

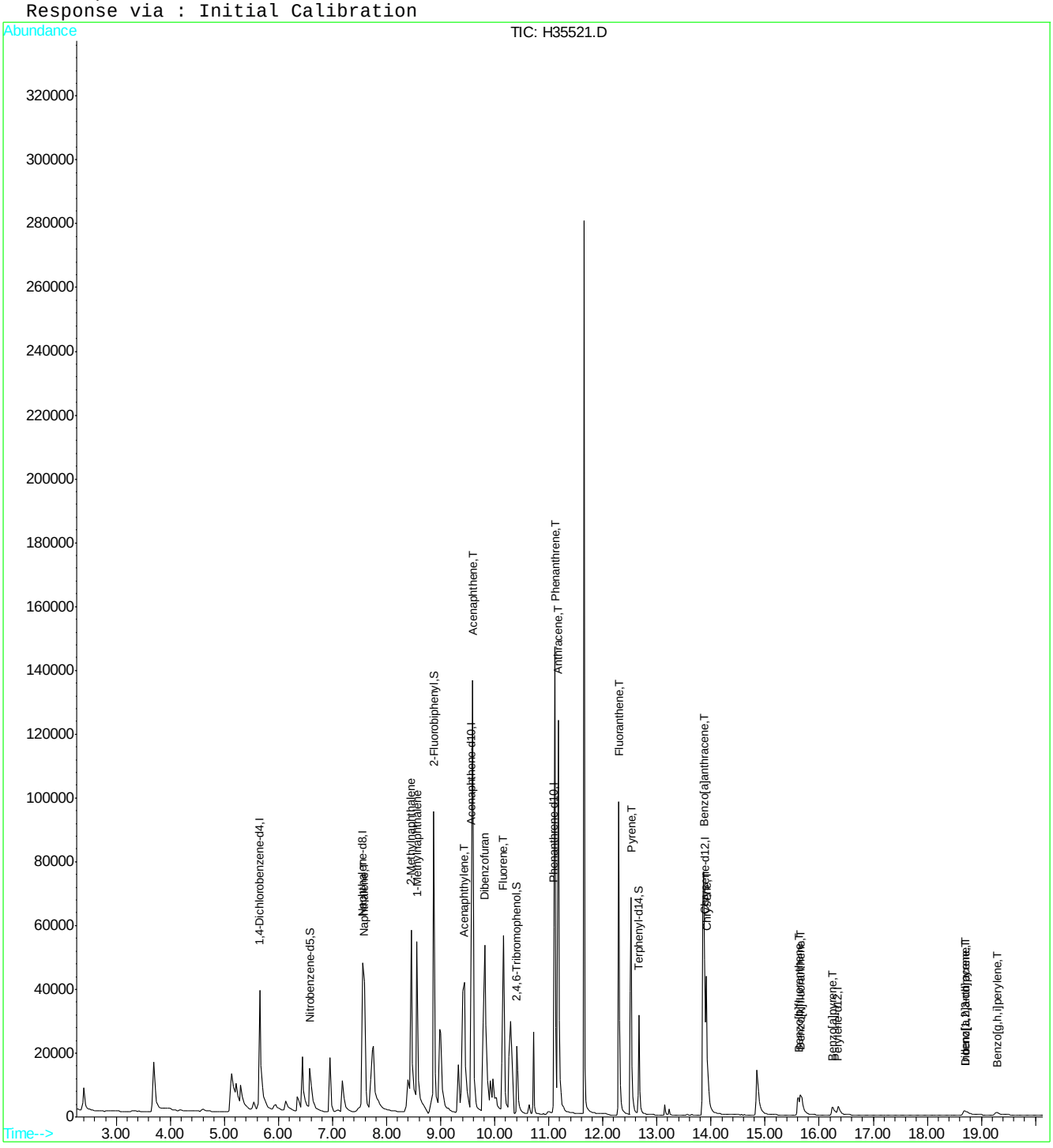
Target Compounds							Qvalue
6) Naphthalene	7.59	128	58746	2.77	ppb	#	84
7) 2-Methylnaphthalene	8.45	142	103198	4.87	ppb	#	84
8) 1-Methylnaphthalene	8.56	142	90681	3.26	ppb	#	100
11) Acenaphthylene	9.43	152	79502	3.30	ppb	#	79
12) Acenaphthene	9.60	153	90124	3.68	ppb		79
13) Dibenzofuran	9.81	168	81886	4.07	ppb		100
14) Fluorene	10.16	166	49521	4.42	ppb		99
18) Phenanthrene	11.11	178	138321	3.65	ppb		98
19) Anthracene	11.17	178	145986	3.72	ppb		99
20) Fluoranthene	12.29	202	128870	3.83	ppb		100
22) Pyrene	12.53	202	118818	3.04	ppb	#	81
24) Benzo[a]anthracene	13.87	228	52062m	3.70	ppb		
25) Chrysene	13.92	228	63920m	3.69	ppb		
27) Benzo[b]fluoranthene	15.62	252	13062	3.89	ppb		97
28) Benzo[k]fluoranthene	15.66	252	20310m	4.43	ppb		
29) Benzo[a]pyrene	16.24	252	9648	3.02	ppb		96
30) Indeno[1,2,3-cd]pyrene	18.70	276	4323	3.63	ppb		94
31) Dibenz[a,h]anthracene	18.70	278	3106m	3.56	ppb		
32) Benzo[g,h,i]perylene	19.29	276	3678	3.55	ppb		90

(#) = qualifier out of range (m) = manual integration
H35521.D H10229SP.M Thu Oct 22 13:39:45 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35521.D Vial: 10
Acq On : 21 Oct 2009 2:54 pm Operator: sheilac
Sample : op13270-bs Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:09 2009 Quant Results File: H10219SP.RES

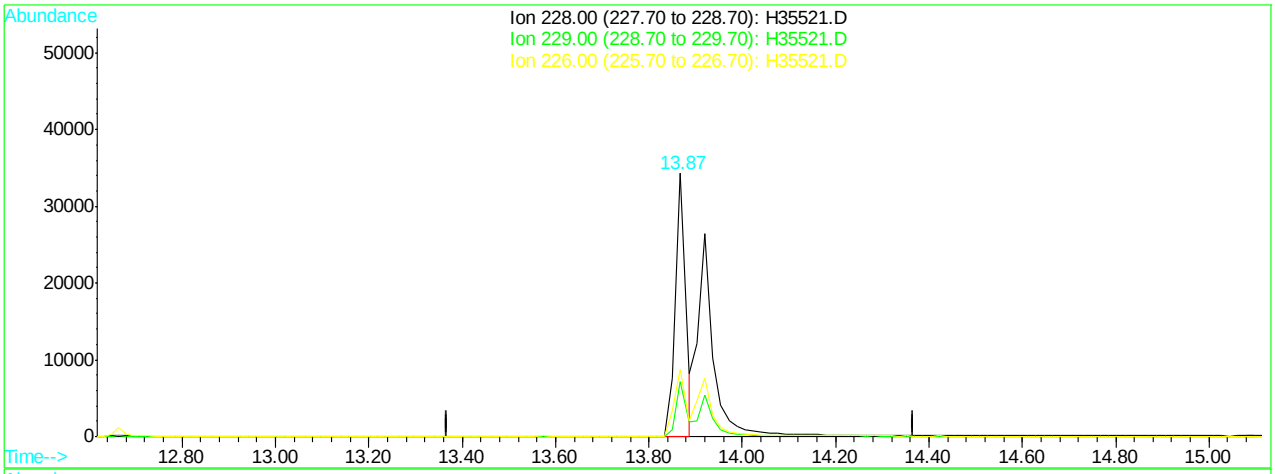
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

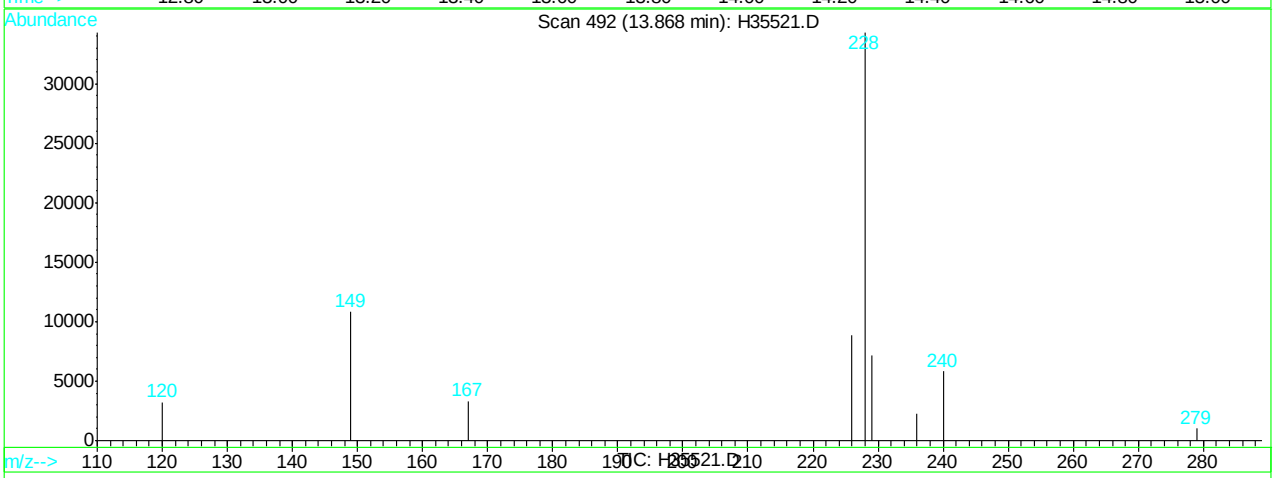


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35521.D Vial: 10
Acq On : 21 Oct 2009 2:54 pm Operator: sheilac
Sample : op13270-bs Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.87min 3.70ppb m

response 52062

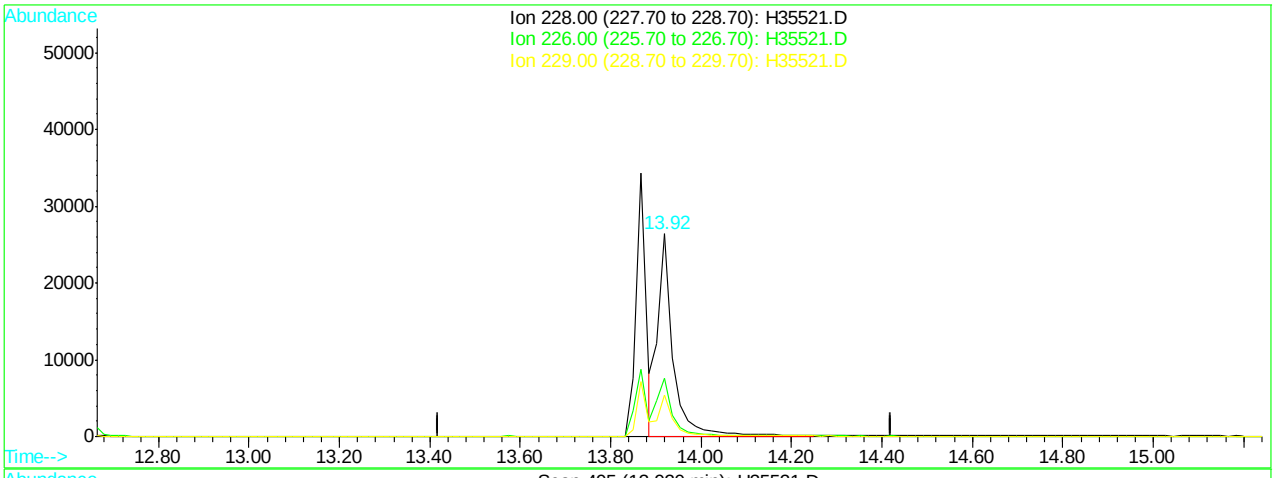
Ion	Exp%	Act%
228.00	100	100
229.00	21.80	20.90
226.00	23.70	25.76
0.00	0.00	0.00

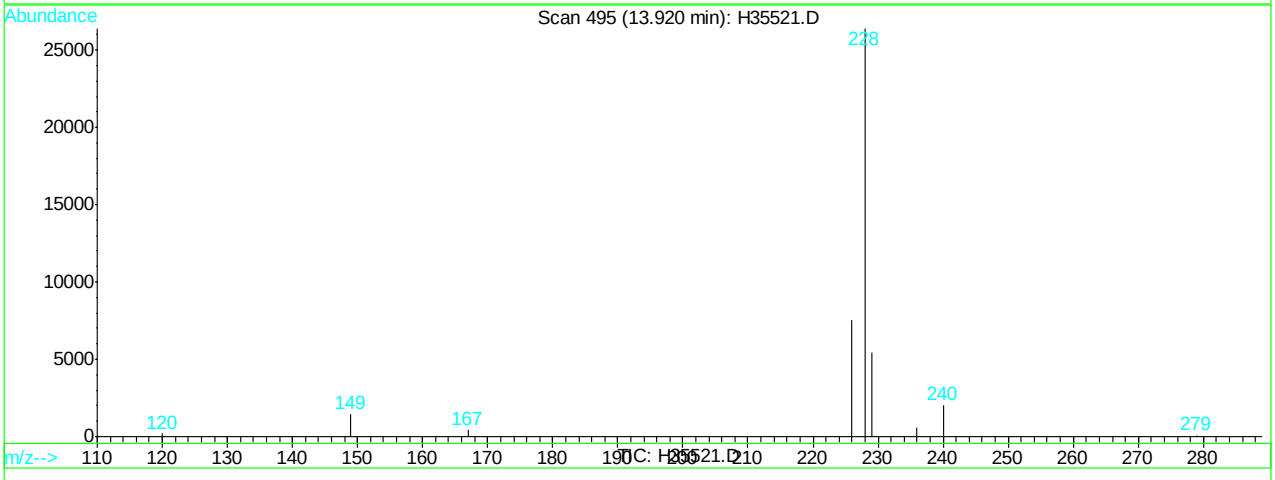
H35521.D H10229SP.M Thu Oct 22 13:40:01 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35521.D Vial: 10
Acq On : 21 Oct 2009 2:54 pm Operator: sheilac
Sample : op13270-bs Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 3.69ppb m

response 63920

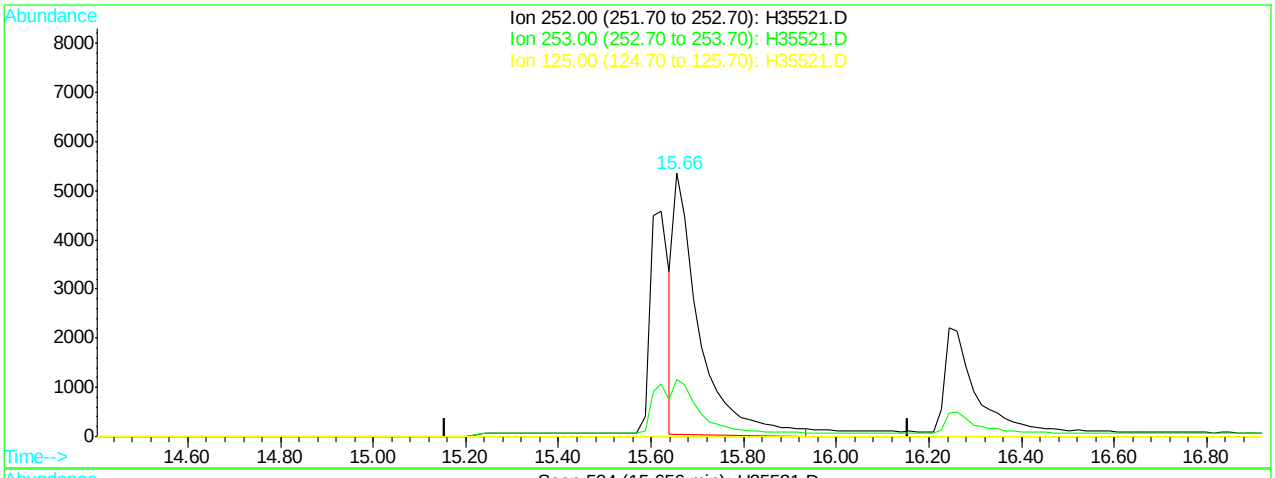
Ion	Exp%	Act%
228.00	100	100
226.00	28.00	28.58
229.00	20.90	20.58
0.00	0.00	0.00

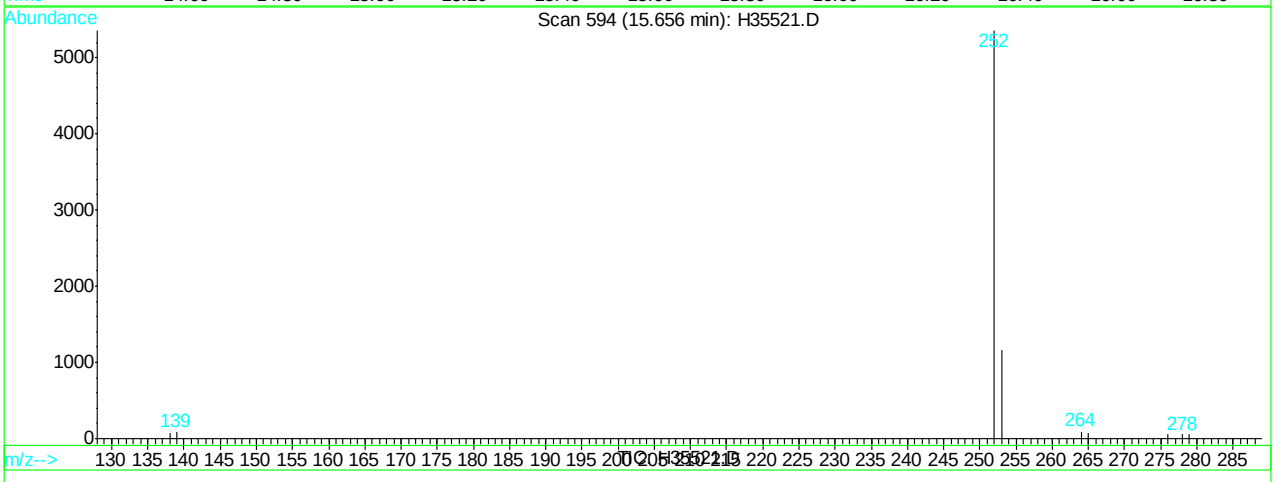
H35521.D H10229SP.M Thu Oct 22 13:40:07 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35521.D Vial: 10
Acq On : 21 Oct 2009 2:54 pm Operator: sheilac
Sample : op13270-bs Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.66min 4.43ppb m

response 20310

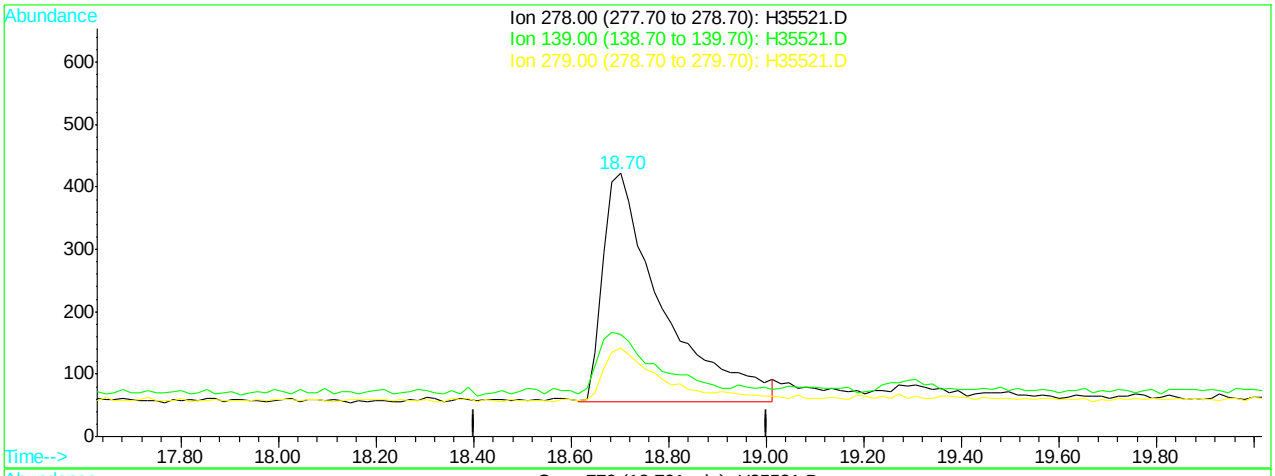
Ion	Exp%	Act%
252.00	100	100
253.00	22.50	21.82
125.00	0.00	0.00
0.00	0.00	0.00

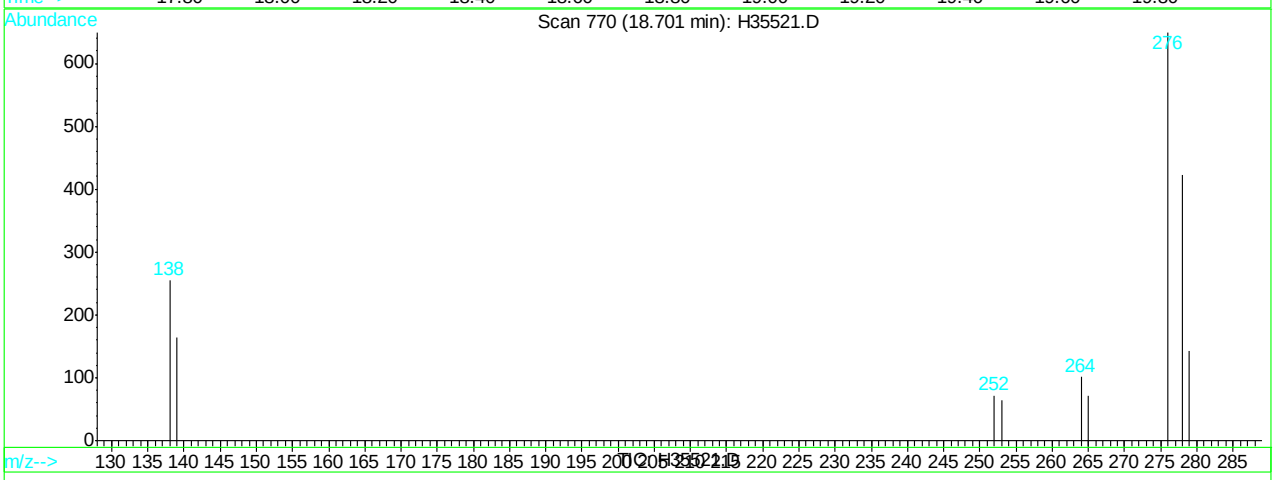
H35521.D H10229SP.M Thu Oct 22 13:40:10 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35521.D Vial: 10
Acq On : 21 Oct 2009 2:54 pm Operator: sheilac
Sample : op13270-bs Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(31) Dibenz[a,h]anthracene (T)

18.70min 3.56ppb m

response 3106

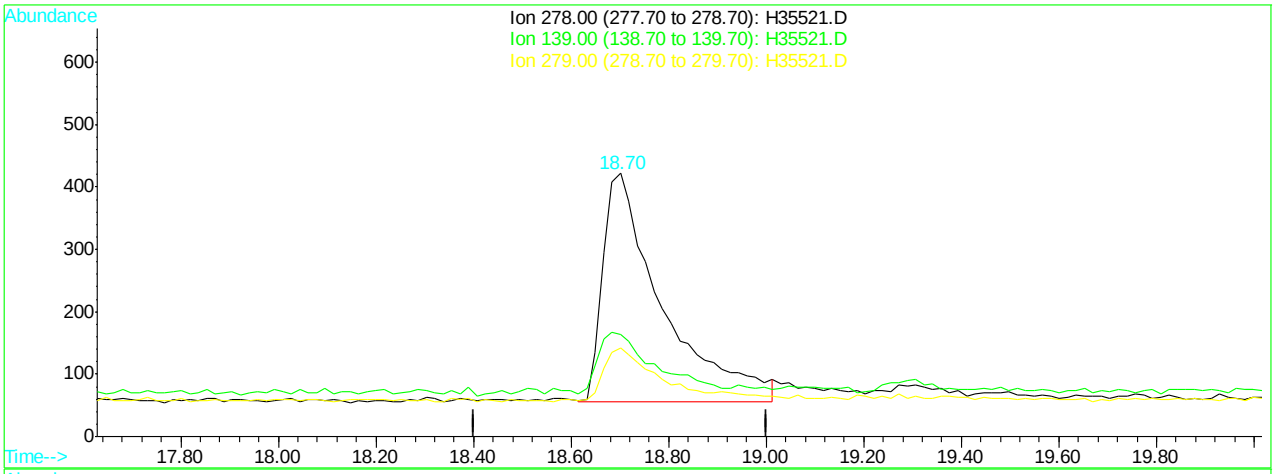
Ion	Exp%	Act%
278.00	100	100
139.00	29.40	38.86#
279.00	23.60	33.65#
0.00	0.00	0.00

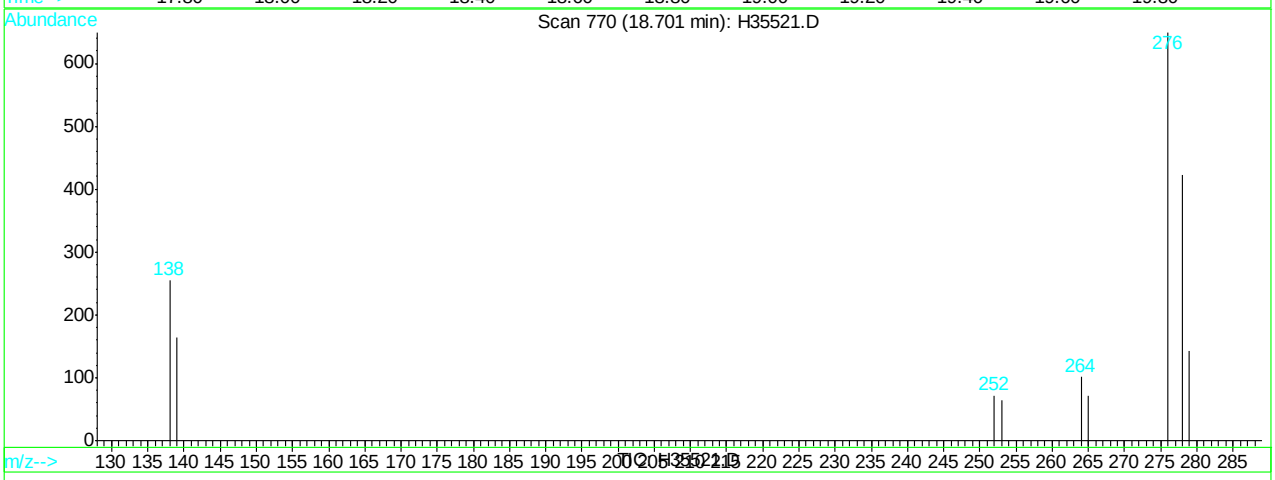
H35521.D H10229SP.M Thu Oct 22 13:40:17 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35521.D Vial: 10
Acq On : 21 Oct 2009 2:54 pm Operator: sheilac
Sample : op13270-bs Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:09 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(31) Dibenz[a,h]anthracene (T)

18.70min 3.56ppb m

response 3106

Ion	Exp%	Act%
278.00	100	100
139.00	29.40	38.86#
279.00	23.60	33.65#
0.00	0.00	0.00

H35521.D H10229SP.M Thu Oct 22 13:41:33 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35522.D Vial: 11
Acq On : 21 Oct 2009 3:25 pm Operator: sheilac
Sample : op13270-bsd Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:10 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 11:44:03 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	80116	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	78986	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	44110	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	74813	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	46659	4.00	ppb	0.00
26) Perylene-d12	16.35	264	9333	4.00	ppb	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	6.58	82	11551	3.41	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery	=	68.20%	
10) 2-Fluorobiphenyl	8.87	172	119732	4.03	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	80.60%	
16) 2,4,6-Tribromophenol	10.40	330	23141	9.49	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	=	94.90%	
23) Terphenyl-d14	12.66	244	33646	3.80	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	76.00%	

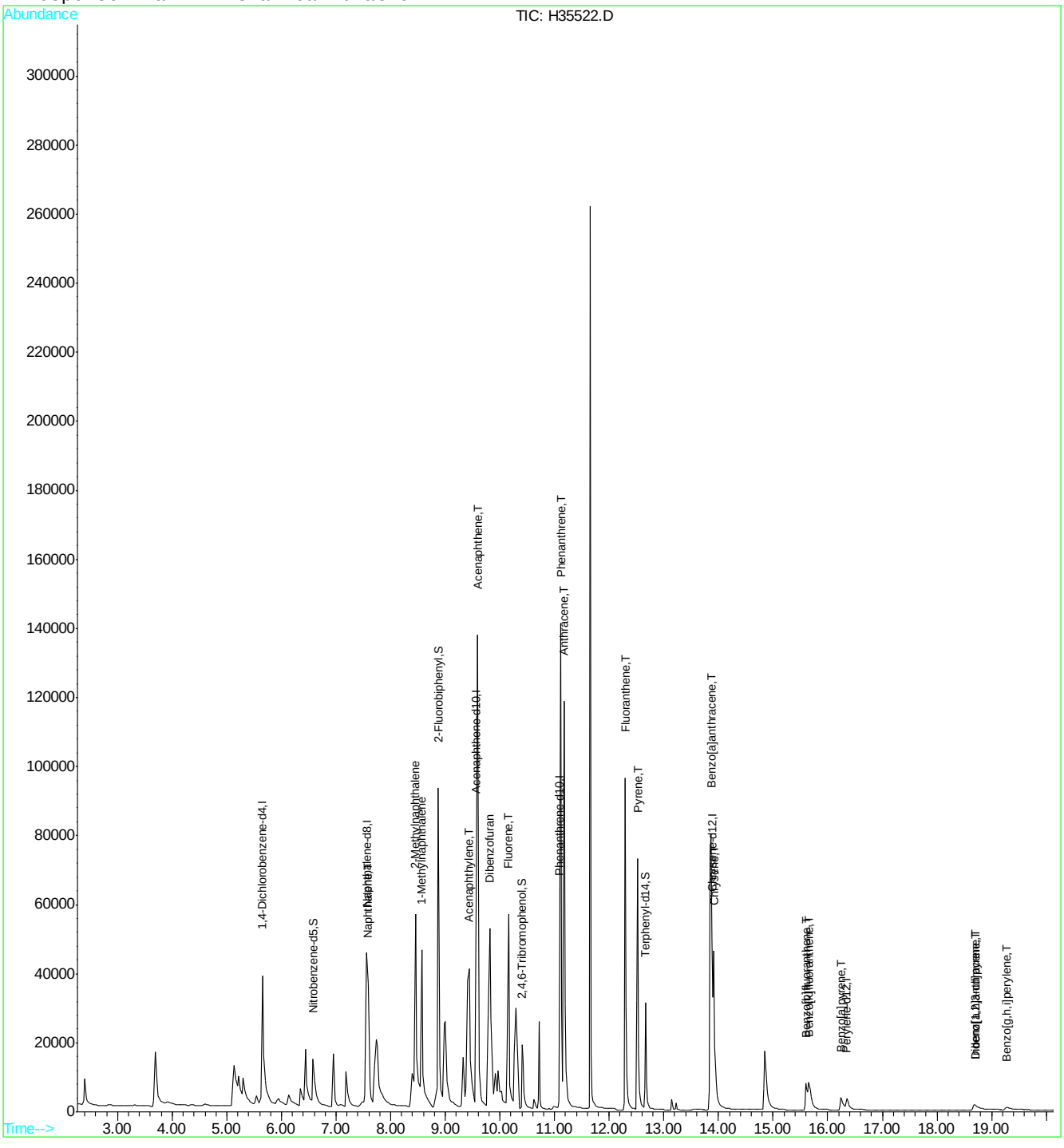
Target Compounds							Qvalue
6) Naphthalene	7.59	128	58378	2.96	ppb		97
7) 2-Methylnaphthalene	8.45	142	101959	5.17	ppb	#	82
8) 1-Methylnaphthalene	8.57	142	79517	3.06	ppb	#	100
11) Acenaphthylene	9.43	152	78951	3.19	ppb	#	79
12) Acenaphthene	9.59	153	91990	3.65	ppb		79
13) Dibenzofuran	9.81	168	80494	3.88	ppb		99
14) Fluorene	10.16	166	49710	4.31	ppb		99
18) Phenanthrene	11.11	178	134116	3.73	ppb		97
19) Anthracene	11.17	178	142641	3.83	ppb		99
20) Fluoranthene	12.29	202	127255	3.99	ppb		99
22) Pyrene	12.52	202	117291	2.79	ppb	#	82
24) Benzo[a]anthracene	13.87	228	55166m	3.64	ppb		
25) Chrysene	13.92	228	66268m	3.55	ppb		
27) Benzo[b]fluoranthene	15.60	252	16991	4.20	ppb		98
28) Benzo[k]fluoranthene	15.66	252	22036m	4.09	ppb		
29) Benzo[a]pyrene	16.24	252	11700	3.11	ppb		98
30) Indeno[1,2,3-cd]pyrene	18.70	276	4689	3.35	ppb		92
31) Dibenz[a,h]anthracene	18.70	278	3107	3.04	ppb		92
32) Benzo[g,h,i]perylene	19.27	276	3738	3.06	ppb		98

(#) = qualifier out of range (m) = manual integration
H35522.D H10229SP.M Thu Oct 22 17:53:13 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35522.D Vial: 11
Acq On : 21 Oct 2009 3:25 pm Operator: sheilac
Sample : op13270-bsd Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:10 2009 Quant Results File: H10219SP.RES

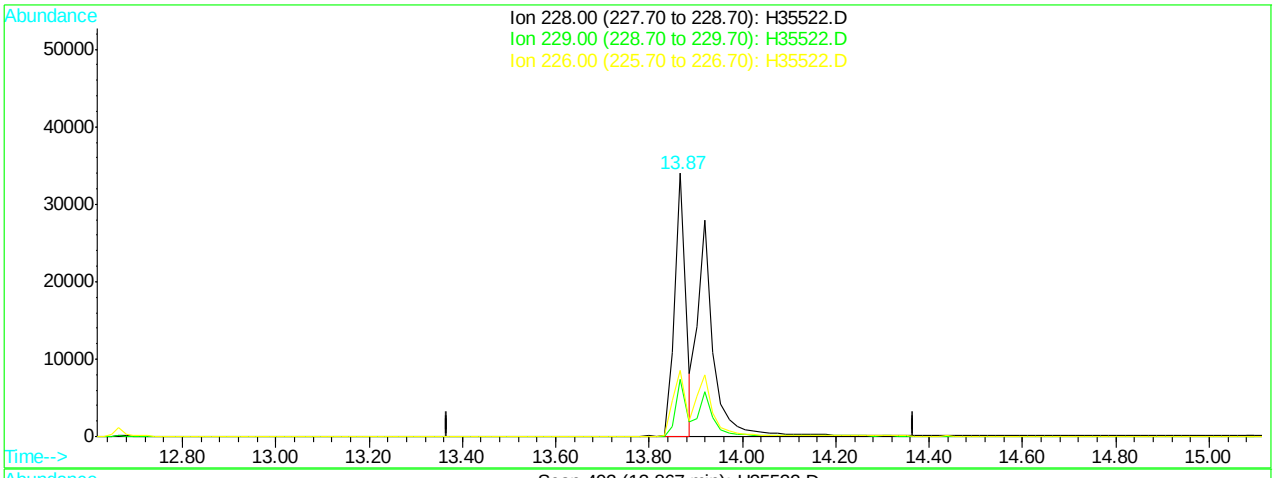
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Initial Calibration

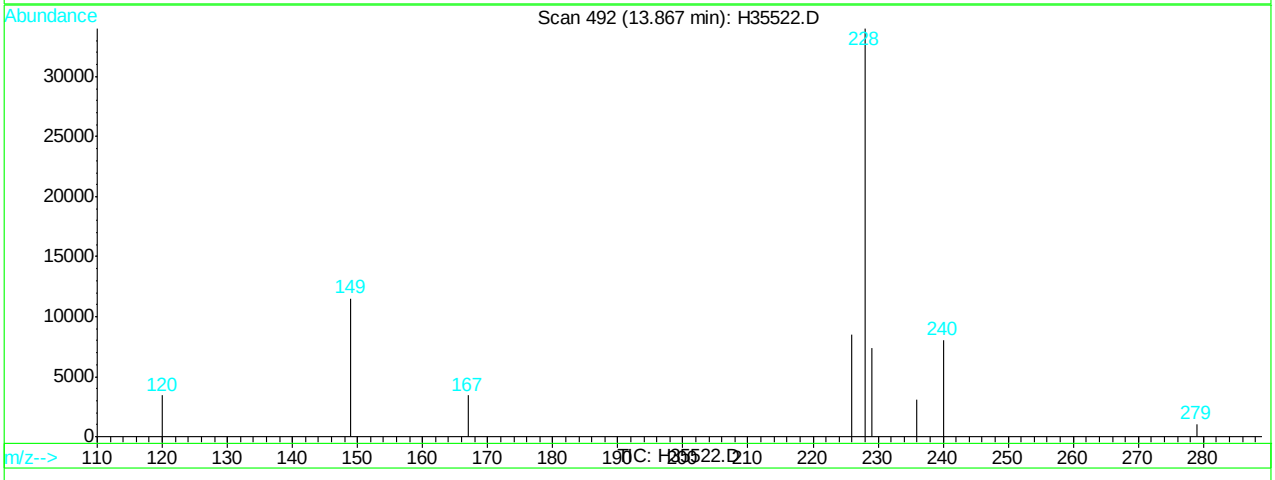


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35522.D Vial: 11
Acq On : 21 Oct 2009 3:25 pm Operator: sheilac
Sample : op13270-bsd Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:10 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.87min 3.64ppb m

response 55166

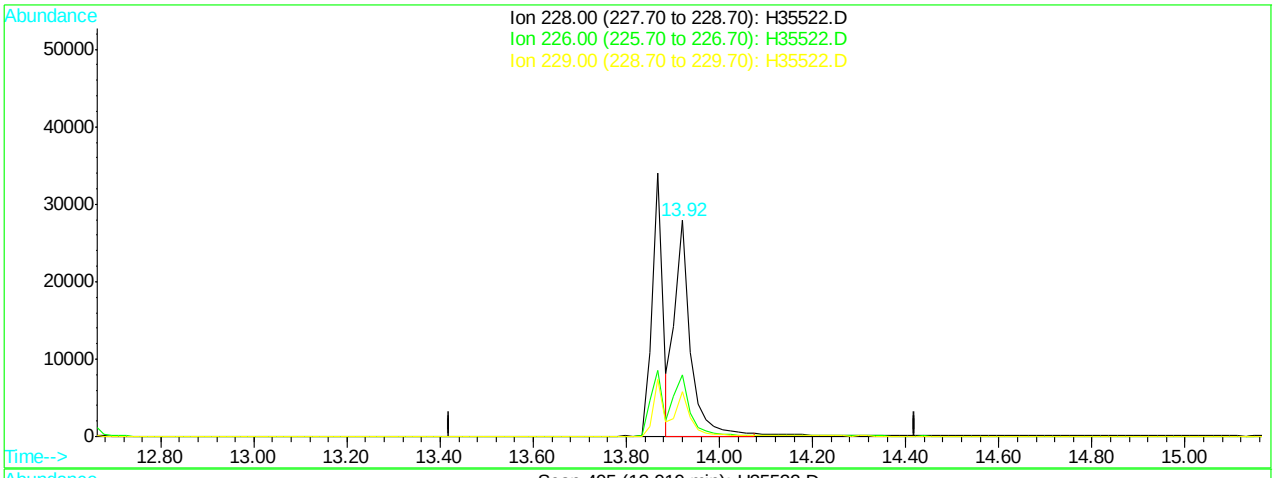
Ion	Exp%	Act%
228.00	100	100
229.00	21.80	21.72
226.00	23.70	24.94
0.00	0.00	0.00

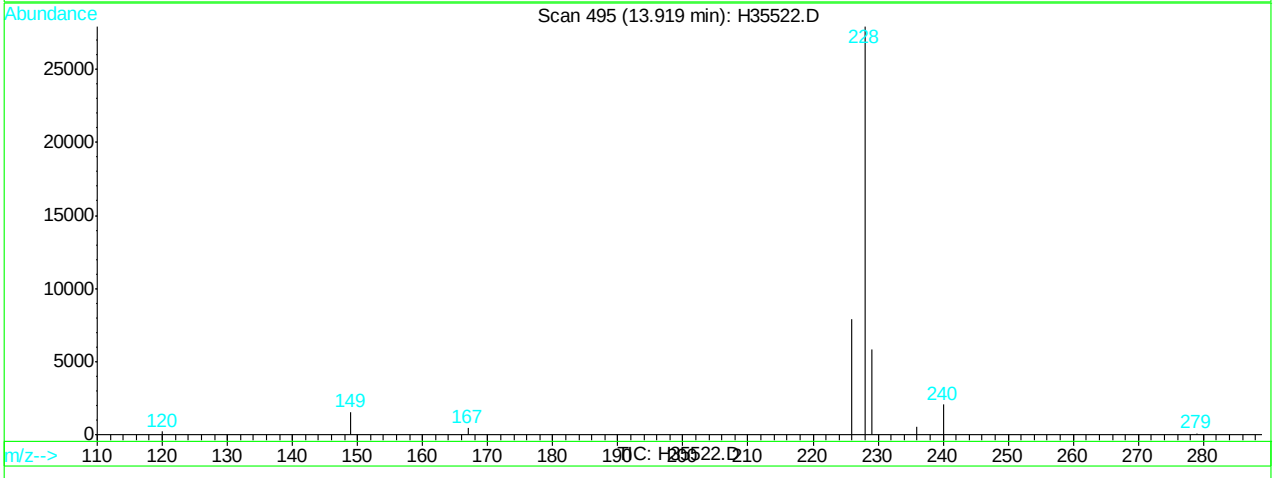
H35522.D H10229SP.M Thu Oct 22 17:53:31 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35522.D Vial: 11
Acq On : 21 Oct 2009 3:25 pm Operator: sheilac
Sample : op13270-bsd Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:10 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 3.55ppb m

response 66268

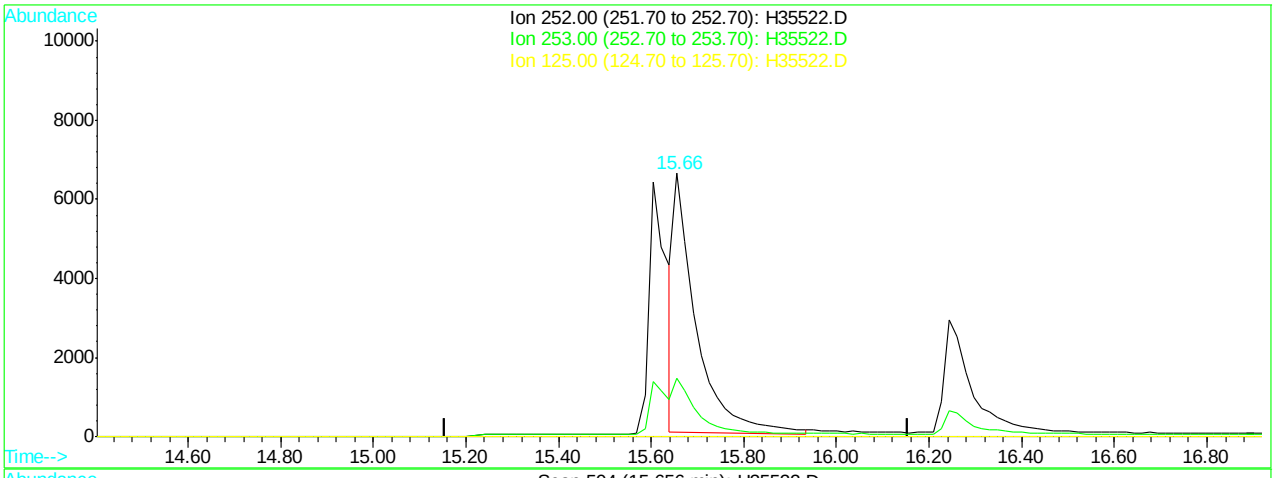
Ion	Exp%	Act%
228.00	100	100
226.00	28.00	28.43
229.00	20.90	20.77
0.00	0.00	0.00

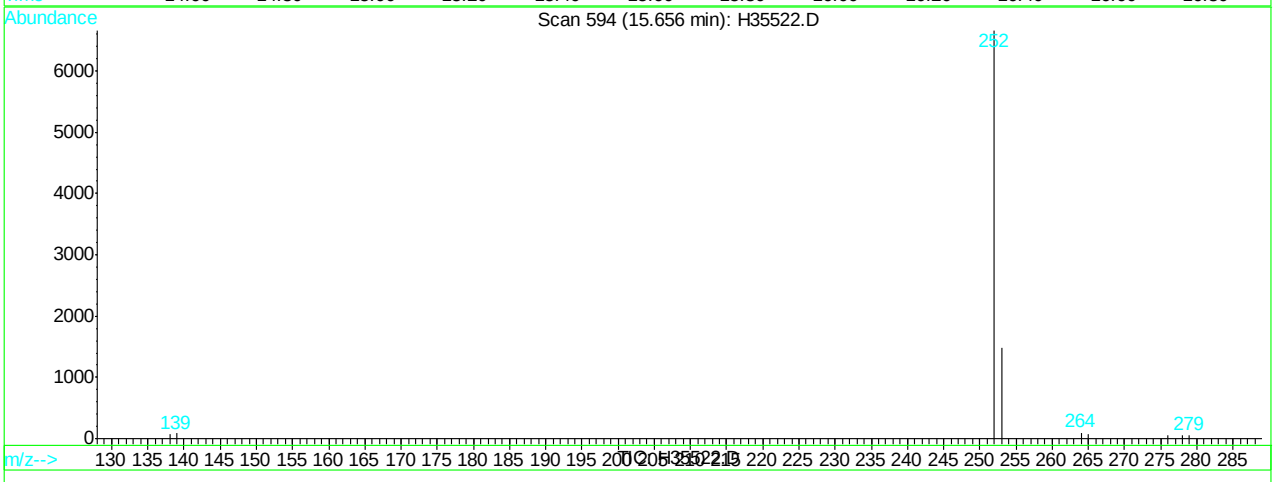
H35522.D H10229SP.M Thu Oct 22 17:53:34 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35522.D Vial: 11
Acq On : 21 Oct 2009 3:25 pm Operator: sheilac
Sample : op13270-bsd Inst : TXMSH
Misc : OP13270,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:10 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 17:47:22 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.66min 4.09ppb m

response 22036

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	22.34
125.00	0.00	0.00
0.00	0.00	0.00

H35522.D H10229SP.M Thu Oct 22 17:53:37 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/19/09 11:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13803.D
Acq On : 13 Oct 2009 8:19 pm
Operator : sheilac
Sample : op13230-ms
Misc : op13230,Ej633,500,,,1,1,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 14 12:26:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.699	152	578227	40.00	ug/ml	-0.03
20) Naphthalene-d8	5.908	136	2079970	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.363	164	1212764	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.139	188	1765026	40.00	ug/ml	-0.06
71) Chrysene-d12	16.669	240	1362616	40.00	ug/ml	-0.06
80) Perylene-d12	19.456	264	675527	40.00	ug/ml	-0.07
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.710	112	1057452	58.28	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 58.28%			
5) Phenol-d5 (SURR)	4.485	99	1189826	52.46	ug/ml	-0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 52.46%			
21) Nitrobenzene-d5 (SURR)	5.197	82	726898	33.33	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery = 66.66%			
40) 2-Fluorobiphenyl (SURR)	7.293	172	1493199	31.61	ug/ml	-0.25
Spiked Amount 50.000	Range 34 - 113		Recovery = 63.22%			
62) 2,4,6-Tribromophenol (...	9.812	330	456252	76.83	ug/ml	-0.15
Spiked Amount 100.000	Range 32 - 128		Recovery = 76.83%			
74) Terphenyl-d14	14.498	244	1355306	41.66	ug/ml	-0.10
Spiked Amount 50.000	Range 12 - 145		Recovery = 83.32%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.447	74	286694	29.50	ug/ml	95
3) Pyridine	2.447	79	97341m	5.68	ug/ml	
6) Phenol	4.496	94	688284	28.04	ug/ml	96
7) Aniline	4.458	93	144728	7.26	ug/ml	97
8) bis(2-Chloroethyl)ether	4.496	93	716673	29.79	ug/ml	92
9) 2-Chlorophenol	4.560	128	643427	33.80	ug/ml	100
10) 1,3-Dichlorobenzene	4.656	146	569283	26.40	ug/ml	99
11) 1,4-Dichlorobenzene	4.715	146	612189	26.46	ug/ml	88
12) Benzyl Alcohol	4.849	108	402291	30.33	ug/ml	97
13) 1,2-Dichlorobenzene	4.844	146	591728	27.26	ug/ml	99
14) 2-Methylphenol	4.972	108	580100	33.72	ug/ml	99
15) bis(2-chloroisopropyl)...	4.940	45	1018459	33.43	ug/ml	98
16) 4-Methylphenol	5.111	108	1292801	71.03	ug/ml#	67
17) m+p-Cresols	5.111	108	1292801	71.03	ug/ml#	67
18) n-Nitroso-di-n-propyla...	5.074	70	569861	34.52	ug/ml	98
19) Hexachloroethane	5.138	117	212578	25.18	ug/ml	99
22) Nitrobenzene	5.213	77	750529	35.03	ug/ml	98
23) Isophorone	5.443	82	1391027	35.36	ug/ml	99
24) 2-Nitrophenol	5.517	139	329383	33.44	ug/ml	96
25) 2,4-Dimethylphenol	5.587	122	608339	37.35	ug/ml	97
26) bis(2-Chloroethoxy)met...	5.651	93	745772	34.40	ug/ml	99
27) Benzoic Acid	5.774	105	324191	40.08	ug/ml	96
28) 2,4-Dichlorophenol	5.790	162	522161	36.44	ug/ml	99
29) 1,2,4-Trichlorobenzene	5.844	180	492609	28.57	ug/ml	99
30) Naphthalene	5.929	128	1826834	32.25	ug/ml	99
31) 4-Chloroaniline	6.004	127	156583	10.08	ug/ml	97
32) Hexachlorobutadiene	6.074	225	297470	27.48	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13803.D
Acq On : 13 Oct 2009 8:19 pm
Operator : sheilac
Sample : op13230-ms
Misc : op13230,Ej633,500,,,1,1,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 14 12:26:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

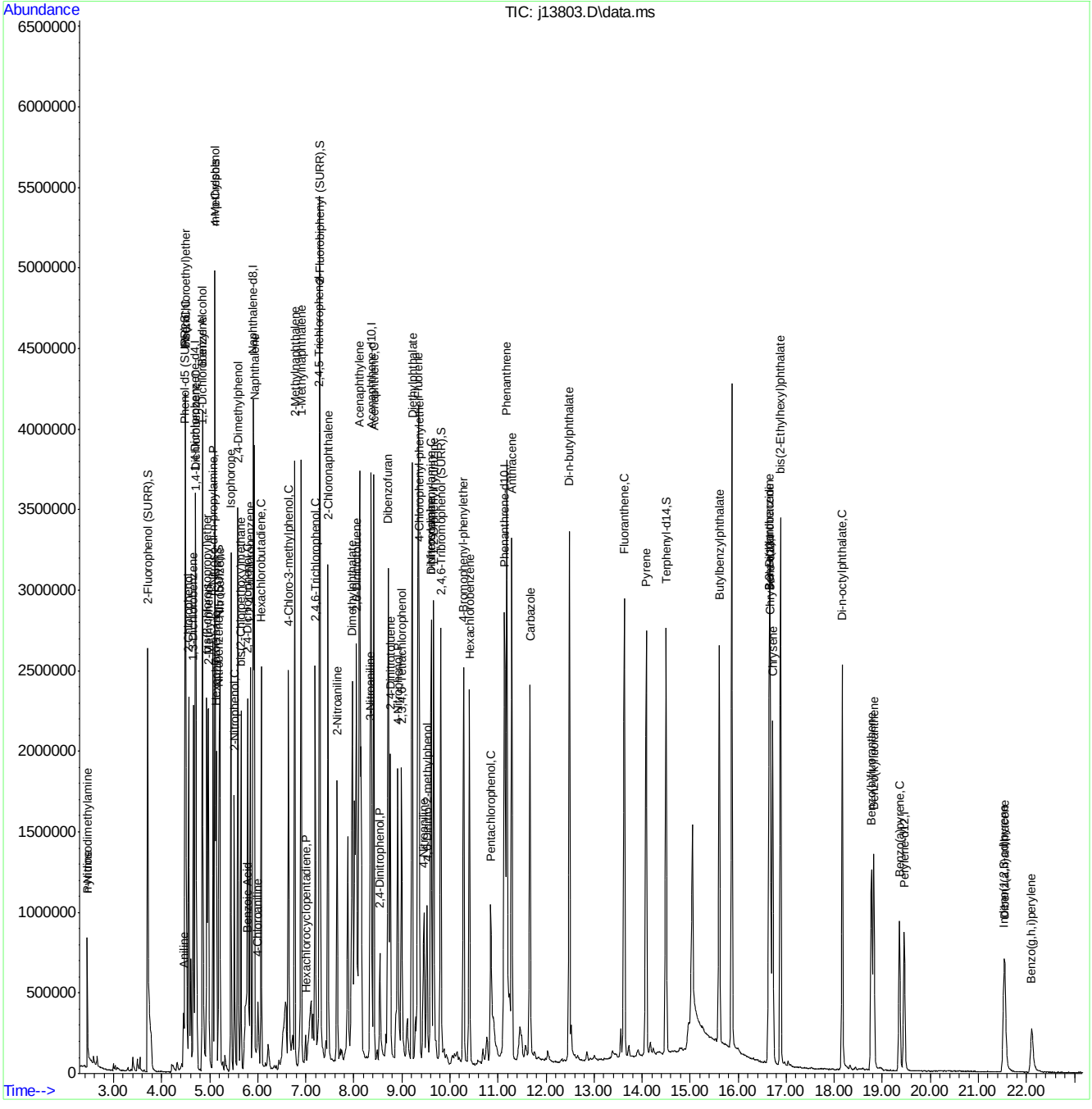
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.641	107	681077	42.09 ug/ml	99
34) 2-Methylnaphthalene	6.769	142	1227242	35.46 ug/ml	99
35) 1-Methylnaphthalene	6.903	142	1215166	33.52 ug/ml	99
37) Hexachlorocyclopentadiene	6.999	237	25718	10.47 ug/ml	96
38) 2,4,6-Trichlorophenol	7.197	196	402171	39.74 ug/ml	99
39) 2,4,5-Trichlorophenol	7.283	196	470112	39.59 ug/ml	100
41) 2-Chloronaphthalene	7.464	162	1124965	33.20 ug/ml	99
42) 2-Nitroaniline	7.657	65	490107	43.02 ug/ml	98
43) Dimethylphthalate	7.973	163	1595837	39.18 ug/ml	99
44) Acenaphthylene	8.117	152	1905518	33.18 ug/ml	100
45) 2,6-Dinitrotoluene	8.058	165	366757	38.28 ug/ml#	81
46) 3-Nitroaniline	8.342	138	240846	28.26 ug/ml	96
47) Acenaphthene	8.416	154	1199888	35.56 ug/ml	100
48) 2,4-Dinitrophenol	8.539	184	137345	45.51 ug/ml	97
49) 4-Nitrophenol	8.914	65	233191	42.52 ug/ml#	75
50) Dibenzofuran	8.716	168	1771553	36.75 ug/ml	99
51) 2,4-Dinitrotoluene	8.759	165	470817	41.03 ug/ml	97
52) 2,3,4,6-Tetrachlorophenol	8.994	232	345760	38.99 ug/ml	99
53) Diethylphthalate	9.219	149	2130052	50.41 ug/ml	99
54) Fluorene	9.336	166	1578983	37.59 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.363	204	747398	35.23 ug/ml	98
56) 4-Nitroaniline	9.459	138	266279	38.82 ug/ml	95
58) 1,2-Diphenylhydrazine	9.663	77	1747811	38.94 ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.524	198	202723	37.06 ug/ml	99
60) Diphenylamine	9.609	169	1112254	33.67 ug/ml	100
61) n-Nitrosodiphenylamine	9.609	169	1112254	33.67 ug/ml	100
63) 4-Bromophenyl-phenylether	10.288	248	432464	38.81 ug/ml	98
64) Hexachlorobenzene	10.411	284	478141	39.38 ug/ml	96
65) Pentachlorophenol	10.855	266	203125	48.37 ug/ml	99
66) Phenanthrene	11.187	178	2148807	40.86 ug/ml	100
67) Anthracene	11.289	178	2071431	40.91 ug/ml	99
68) Carbazole	11.668	167	1705053	41.83 ug/ml	99
69) Di-n-butylphthalate	12.487	149	2756685	43.65 ug/ml	99
70) Fluoranthene	13.631	202	2079109	43.61 ug/ml	99
73) Pyrene	14.086	202	2035063	42.39 ug/ml	99
75) Butylbenzylphthalate	15.610	149	943054	44.10 ug/ml	99
76) Benzo(a)anthracene	16.648	228	1610561	42.02 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.648	252	43877	4.67 ug/ml#	84
78) Chrysene	16.718	228	1396379	43.22 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	16.883	149	1357951	47.26 ug/ml	98
81) Di-n-octylphthalate	18.167	149	1852655	52.17 ug/ml	100
82) Benzo(b)fluoranthene	18.771	252	1041061	46.63 ug/ml	96
83) Benzo(k)fluoranthene	18.825	252	1014746	49.76 ug/ml	99
84) Benzo(a)pyrene	19.360	252	748700	39.28 ug/ml#	11
85) Indeno(1,2,3-cd)pyrene	21.531	276	629470	39.17 ug/ml	97
86) Dibenz(a,h)anthracene	21.553	278	524872	39.35 ug/ml	99
87) Benzo(g,h,i)perylene	22.109	276	425763	35.07 ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13803.D
Acq On : 13 Oct 2009 8:19 pm
Operator : sheilac
Sample : op13230-ms
Misc : op13230,Ej633,500,,,1,1,water
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 14 12:26:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13803.D
Acq On    : 13 Oct 2009   8:19 pm
Operator  : sheilac
Sample    : op13230-ms
Misc      : op13230,Ej633,500,,,1,1,water
ALS Vial  : 21   Sample Multiplier: 1

Quant Time: Oct 14 12:26:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration
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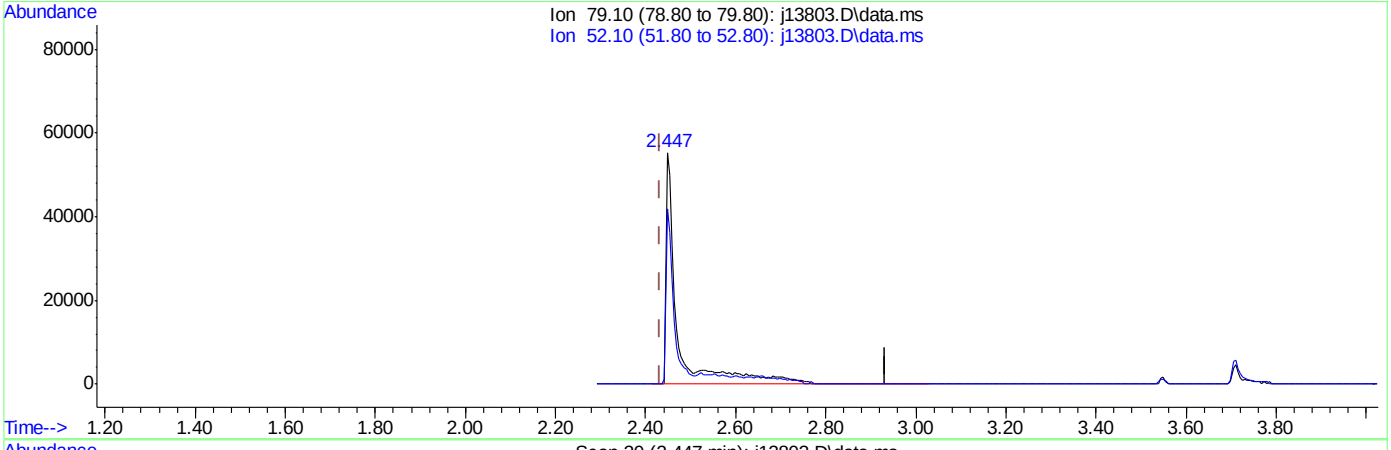
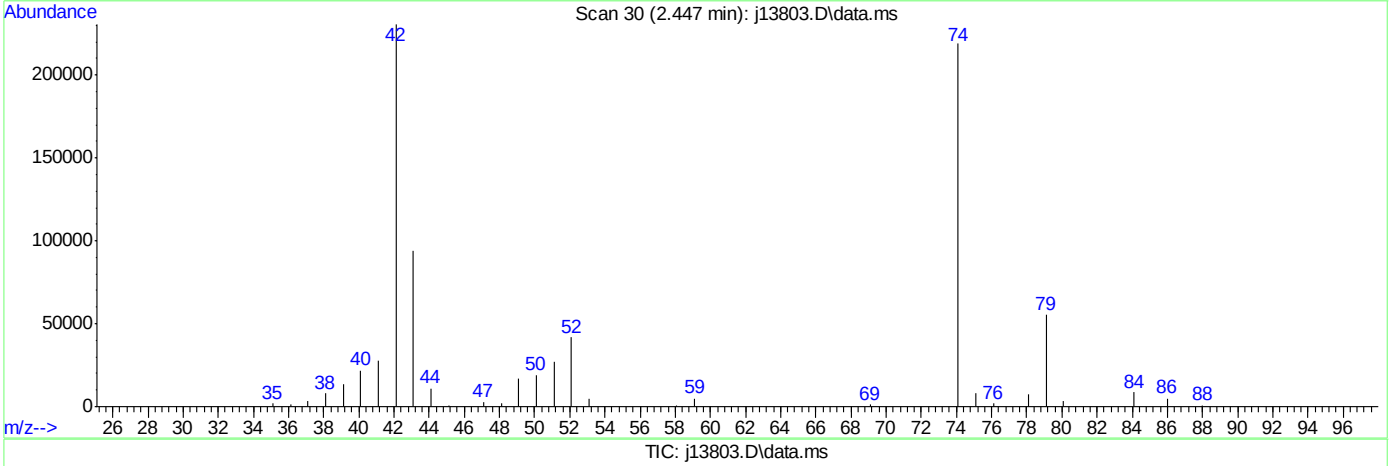




(3) Pyridine

2.447min (+0.015) 5.68ug/ml m

response 97341

Ion	Exp%	Act%
79.10	100	100
52.10	72.60	51.13#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/19/09 11:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13804.D
Acq On : 13 Oct 2009 8:49 pm
Operator : sheilac
Sample : op13230-msd
Misc : op13230,Ej633,500,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 14 12:25:46 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.699	152	497658	40.00	ug/ml	-0.03
20) Naphthalene-d8	5.902	136	1825808	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.363	164	1109568	40.00	ug/ml	-0.05
57) Phenanthrene-d10	11.139	188	1710634	40.00	ug/ml	-0.06
71) Chrysene-d12	16.669	240	1270114	40.00	ug/ml	-0.06
80) Perylene-d12	19.456	264	631717	40.00	ug/ml	-0.07
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.710	112	1048226	67.12	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery = 67.12%#			
5) Phenol-d5 (SURR)	4.480	99	1187531	60.84	ug/ml	-0.02
Spiked Amount 100.000	Range 10 - 53		Recovery = 60.84%#			
21) Nitrobenzene-d5 (SURR)	5.196	82	736160	38.45	ug/ml	-0.10
Spiked Amount 50.000	Range 29 - 115		Recovery = 76.90%			
40) 2-Fluorobiphenyl (SURR)	7.293	172	1538839	35.60	ug/ml	-0.25
Spiked Amount 50.000	Range 34 - 113		Recovery = 71.20%			
62) 2,4,6-Tribromophenol (...	9.812	330	496030	86.18	ug/ml	-0.15
Spiked Amount 100.000	Range 32 - 128		Recovery = 86.18%			
74) Terphenyl-d14	14.503	244	1512646	49.88	ug/ml	-0.09
Spiked Amount 50.000	Range 12 - 145		Recovery = 99.76%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.447	74	294726	35.24	ug/ml	94
3) Pyridine	2.447	79	97153m	6.58	ug/ml	
6) Phenol	4.496	94	686515	32.50	ug/ml	96
7) Aniline	4.453	93	154065	8.35	ug/ml	97
8) bis(2-Chloroethyl)ether	4.496	93	715530	34.56	ug/ml	93
9) 2-Chlorophenol	4.560	128	653213	39.87	ug/ml	99
10) 1,3-Dichlorobenzene	4.656	146	563764	30.37	ug/ml	98
11) 1,4-Dichlorobenzene	4.715	146	612507	30.76	ug/ml	88
12) Benzyl Alcohol	4.849	108	405764	35.54	ug/ml	96
13) 1,2-Dichlorobenzene	4.843	146	588302	31.49	ug/ml	99
14) 2-Methylphenol	4.972	108	587002	39.64	ug/ml	99
15) bis(2-chloroisopropyl)...	4.940	45	1012536	38.61	ug/ml	98
16) 4-Methylphenol	5.111	108	1310942	83.69	ug/ml#	66
17) m+p-Cresols	5.111	108	1310942	83.69	ug/ml#	66
18) n-Nitroso-di-n-propyla...	5.073	70	572396	40.28	ug/ml	99
19) Hexachloroethane	5.138	117	214998	29.59	ug/ml	99
22) Nitrobenzene	5.212	77	761710	40.51	ug/ml	99
23) Isophorone	5.442	82	1416332	41.02	ug/ml	99
24) 2-Nitrophenol	5.517	139	342635	39.63	ug/ml	97
25) 2,4-Dimethylphenol	5.587	122	616392	43.11	ug/ml	98
26) bis(2-Chloroethoxy)met...	5.651	93	751252	39.48	ug/ml	100
27) Benzoic Acid	5.779	105	337450	47.52	ug/ml	98
28) 2,4-Dichlorophenol	5.790	162	537830	42.76	ug/ml	99
29) 1,2,4-Trichlorobenzene	5.844	180	502176	33.18	ug/ml	99
30) Naphthalene	5.929	128	1859563	37.39	ug/ml	99
31) 4-Chloroaniline	6.004	127	175488	12.04	ug/ml	92
32) Hexachlorobutadiene	6.074	225	301867	31.77	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13804.D
Acq On : 13 Oct 2009 8:49 pm
Operator : sheilac
Sample : op13230-msd
Misc : op13230,Ej633,500,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 14 12:25:46 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration

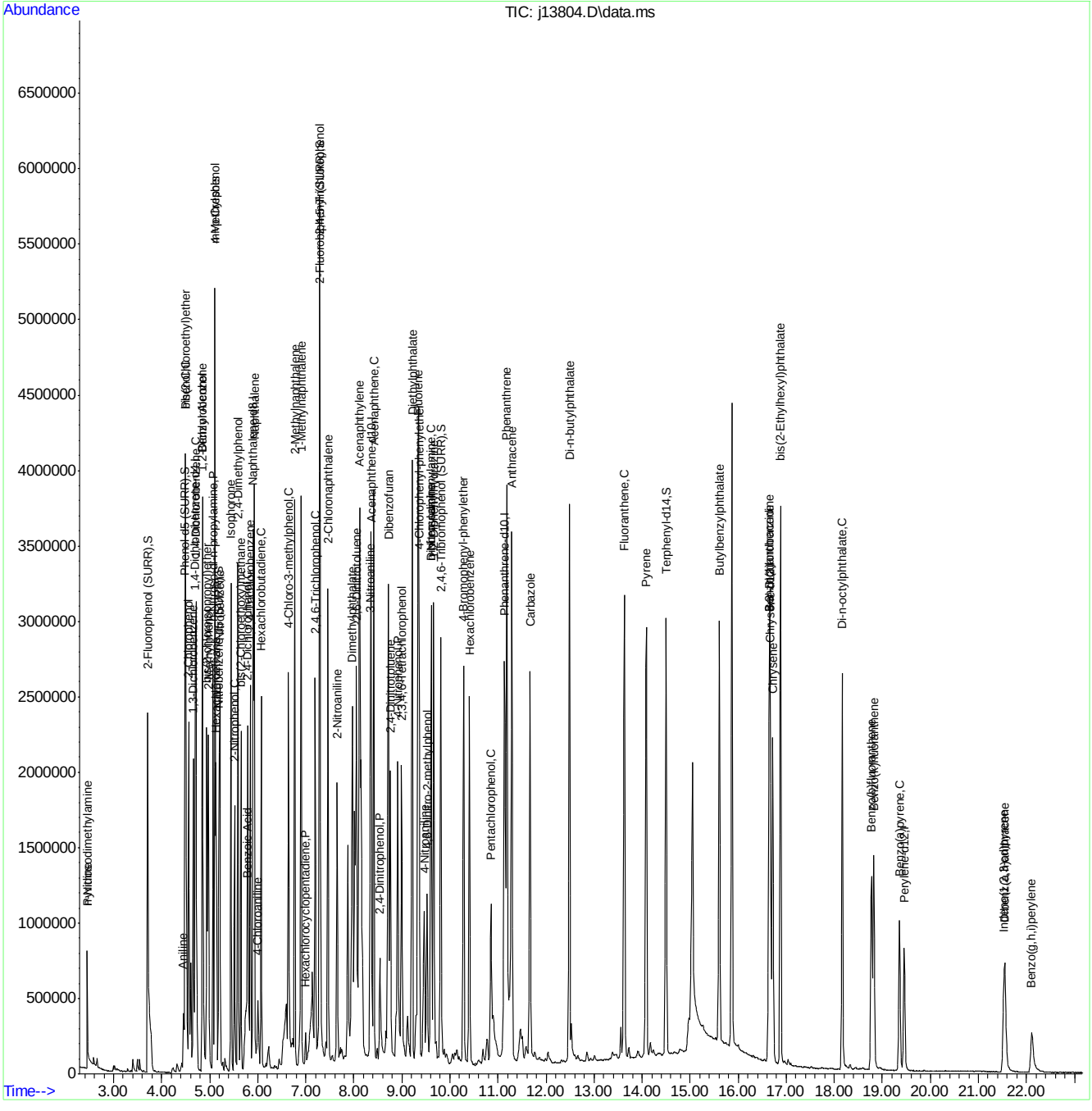
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.641	107	705087	49.64	ug/ml	100
34) 2-Methylnaphthalene	6.769	142	1257303	41.39	ug/ml	100
35) 1-Methylnaphthalene	6.903	142	1237780	38.90	ug/ml	99
37) Hexachlorocyclopentadiene	6.994	237	30707	11.96	ug/ml	97
38) 2,4,6-Trichlorophenol	7.197	196	422058	45.58	ug/ml	100
39) 2,4,5-Trichlorophenol	7.288	196	488632	44.47	ug/ml	99
41) 2-Chloronaphthalene	7.464	162	1154269	37.23	ug/ml	100
42) 2-Nitroaniline	7.657	65	508209	48.76	ug/ml	99
43) Dimethylphthalate	7.972	163	1660081	44.55	ug/ml	99
44) Acenaphthylene	8.117	152	1948275	37.08	ug/ml	100
45) 2,6-Dinitrotoluene	8.058	165	385196	43.94	ug/ml#	82
46) 3-Nitroaniline	8.347	138	256607	32.39	ug/ml	93
47) Acenaphthene	8.416	154	1235530	40.02	ug/ml	100
48) 2,4-Dinitrophenol	8.539	184	156004	53.81	ug/ml	95
49) 4-Nitrophenol	8.914	65	246554	48.74	ug/ml	92
50) Dibenzofuran	8.721	168	1848945	41.93	ug/ml	98
51) 2,4-Dinitrotoluene	8.764	165	502505	47.86	ug/ml	99
52) 2,3,4,6-Tetrachlorophenol	8.994	232	371124	45.19	ug/ml	98
53) Diethylphthalate	9.219	149	2231261	57.72	ug/ml	99
54) Fluorene	9.336	166	1655243	43.07	ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.363	204	781423	39.86	ug/ml	99
56) 4-Nitroaniline	9.470	138	294399	46.91	ug/ml	96
58) 1,2-Diphenylhydrazine	9.663	77	1839476	42.28	ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.523	198	232235	42.75	ug/ml	99
60) Diphenylamine	9.609	169	1181922	36.92	ug/ml	100
61) n-Nitrosodiphenylamine	9.609	169	1181922	36.92	ug/ml	100
63) 4-Bromophenyl-phenylether	10.288	248	456173	42.24	ug/ml	98
64) Hexachlorobenzene	10.411	284	506972	43.09	ug/ml	96
65) Pentachlorophenol	10.855	266	222819	53.13	ug/ml	98
66) Phenanthrene	11.187	178	2312925	45.38	ug/ml	99
67) Anthracene	11.289	178	2252576	45.90	ug/ml	100
68) Carbazole	11.668	167	1902268	48.15	ug/ml	99
69) Di-n-butylphthalate	12.492	149	3041198	49.69	ug/ml	99
70) Fluoranthene	13.631	202	2320192	50.21	ug/ml	99
73) Pyrene	14.091	202	2267447	50.67	ug/ml	99
75) Butylbenzylphthalate	15.610	149	1038483	52.10	ug/ml	100
76) Benzo(a)anthracene	16.648	228	1697473	47.51	ug/ml	99
77) 3,3'-Dichlorobenzidine	16.648	252	45760	5.23	ug/ml#	86
78) Chrysene	16.717	228	1468752	48.77	ug/ml	100
79) bis(2-Ethylhexyl)phtha...	16.883	149	1504725	56.19	ug/ml	98
81) Di-n-octylphthalate	18.167	149	1943477	57.98	ug/ml	100
82) Benzo(b)fluoranthene	18.777	252	1072239	51.36	ug/ml	96
83) Benzo(k)fluoranthene	18.825	252	1076086	56.43	ug/ml	99
84) Benzo(a)pyrene	19.360	252	804866	45.16	ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.531	276	676191	44.99	ug/ml	97
86) Dibenz(a,h)anthracene	21.553	278	565103	45.30	ug/ml	98
87) Benzo(g,h,i)perylene	22.109	276	444657	39.16	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13804.D
Acq On : 13 Oct 2009 8:49 pm
Operator : sheilac
Sample : op13230-msd
Misc : op13230,Ej633,500,,,1,1,water
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 14 12:25:46 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration



Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13804.D
Acq On    : 13 Oct 2009   8:49 pm
Operator  : sheilac
Sample    : op13230-msd
Misc      : op13230,Ej633,500,,,1,1,water
ALS Vial  : 22   Sample Multiplier: 1

Quant Time: Oct 14 12:25:46 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Oct 14 12:22:32 2009
Response via : Initial Calibration
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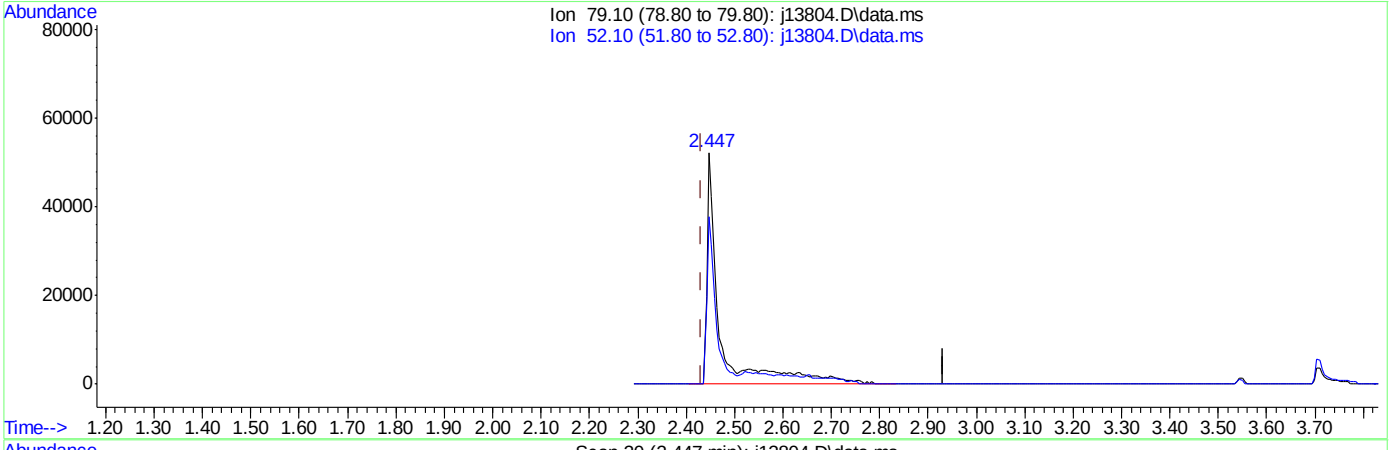

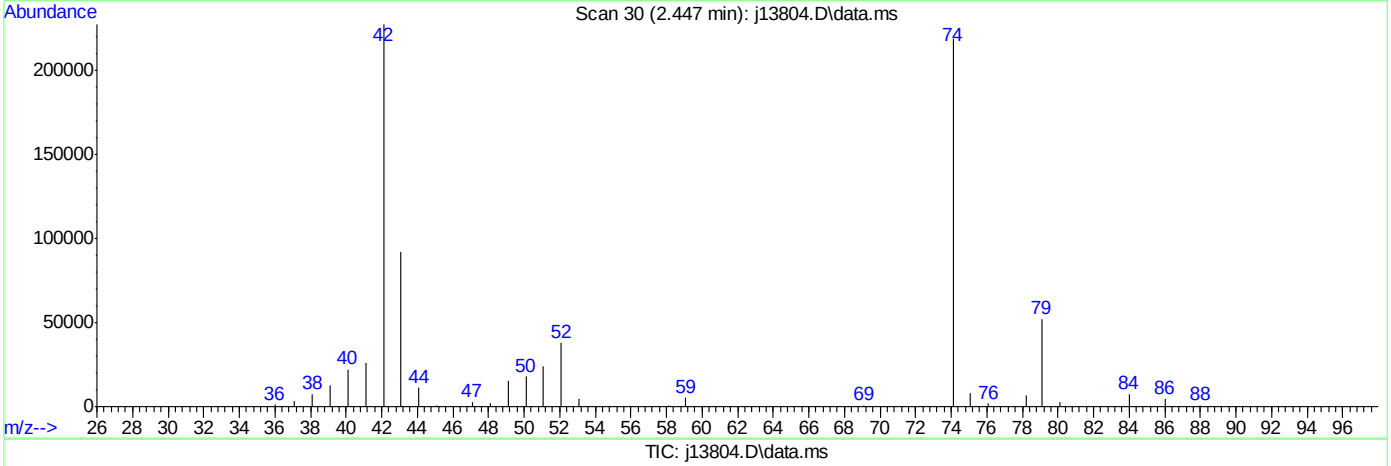

(3) Pyridine

2.447min (+0.015) 6.58ug/ml m

response 97153

Ion	Exp%	Act%
79.10	100	100
52.10	72.60	49.51#
0.00	0.00	0.00
0.00	0.00	0.00

DFTPP

```
Data File : C:\HPCHEM\1\DATA\EH1918\H35512.D            Vial: 1
Acq On    : 21 Oct 2009  10:48 am                   Operator: sheilac
Sample    : dftpp                                   Inst    : TXMSH
Misc      : OP12779,EH1918,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title     : 8270 BNA TUNING STD'S
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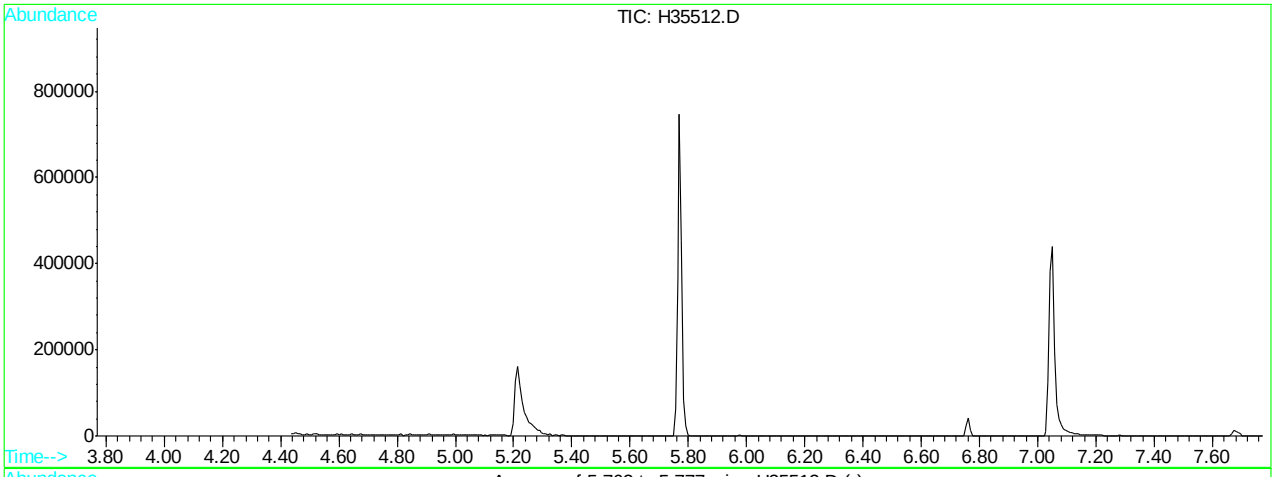
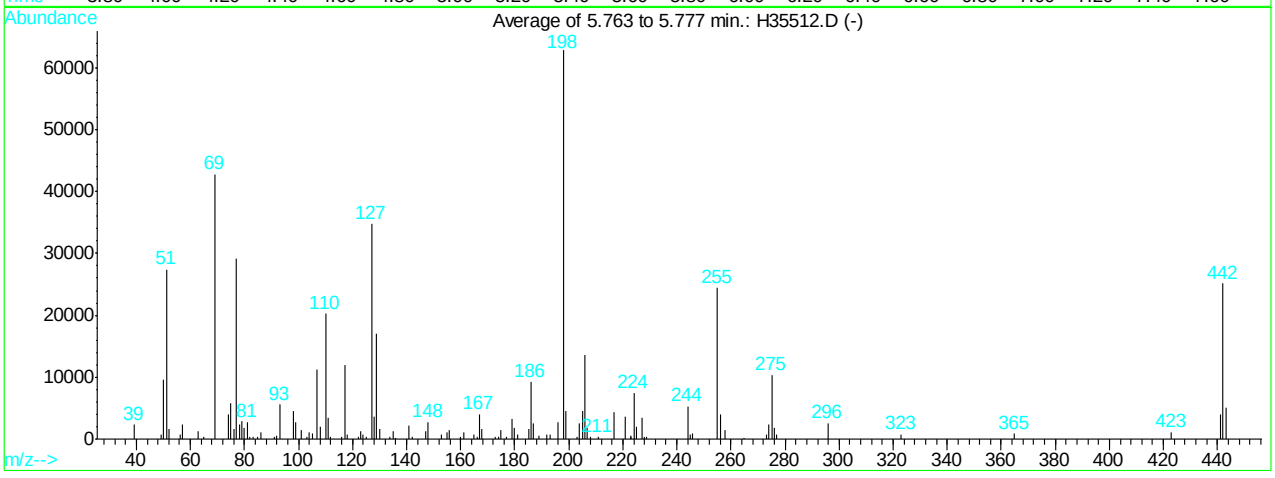




AutoFind: Scans 180, 181, 182; Background Corrected with Scan 176

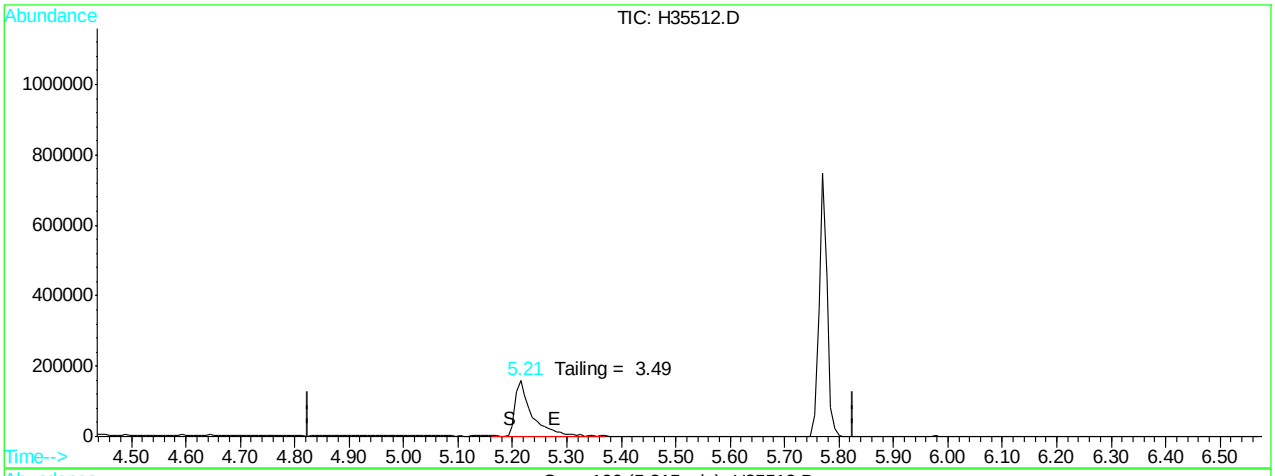
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.7	27424	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	68.1	42760	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	55.3	34749	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	62797	PASS
199	198	5	9	7.1	4472	PASS
275	198	10	30	16.5	10382	PASS
365	198	1	100	1.4	872	PASS
441	443	0.01	100	79.6	4082	PASS
442	198	40	100	40.0	25149	PASS
443	442	17	23	20.4	5127	PASS

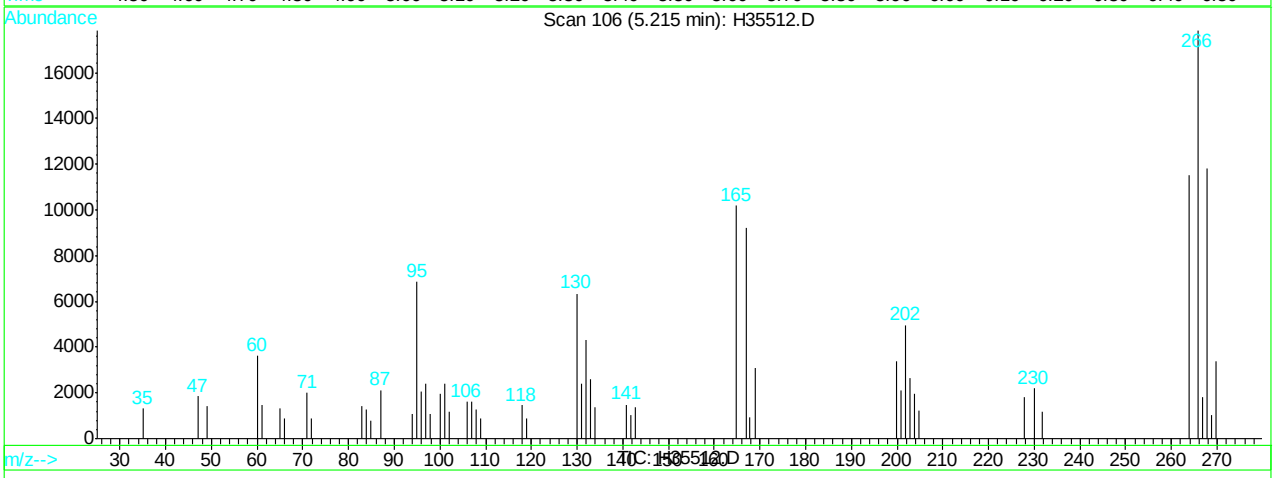
H35512.D DFTPP.M Wed Oct 21 10:55:10 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35512.D Vial: 1
Acq On : 21 Oct 2009 10:48 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 10:55 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(1) Pentachlorophenol

5.21min 0.00

response 342661

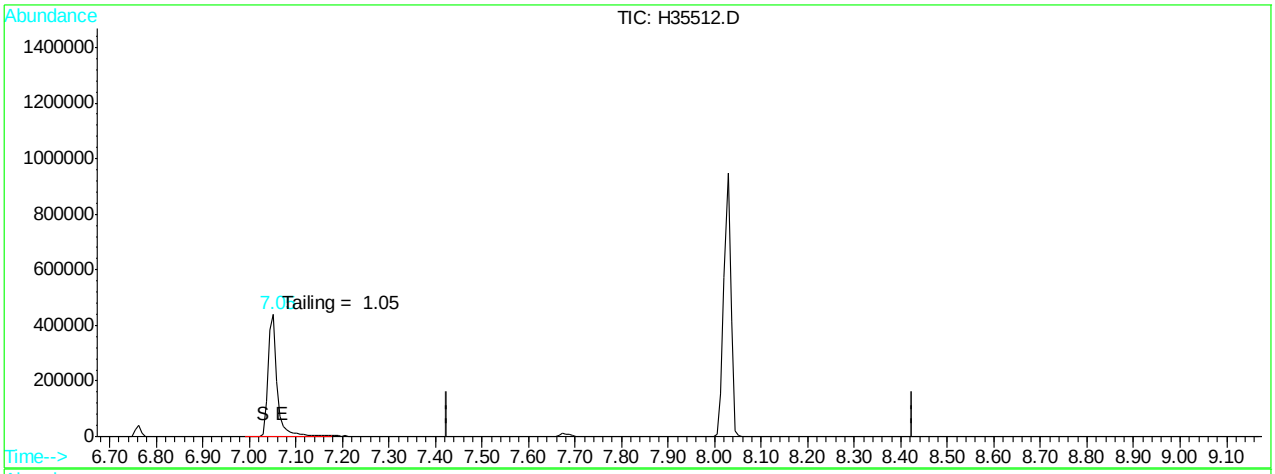
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

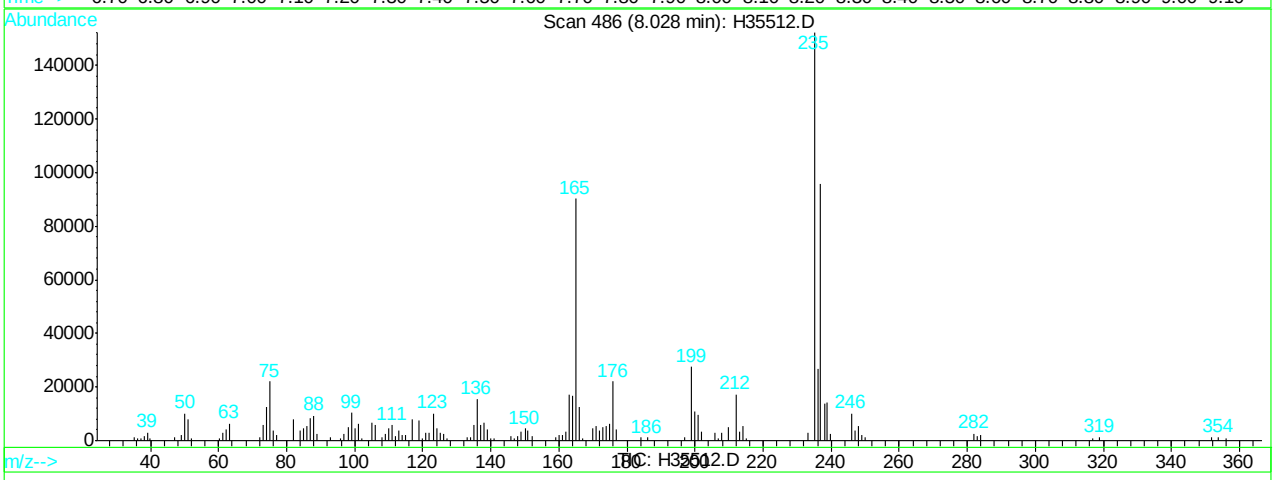
H35512.D DFTPP.M Wed Oct 21 10:55:37 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35512.D Vial: 1
Acq On : 21 Oct 2009 10:48 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 10:55 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(3) Benzidine

8.03min 0.00

response 943744

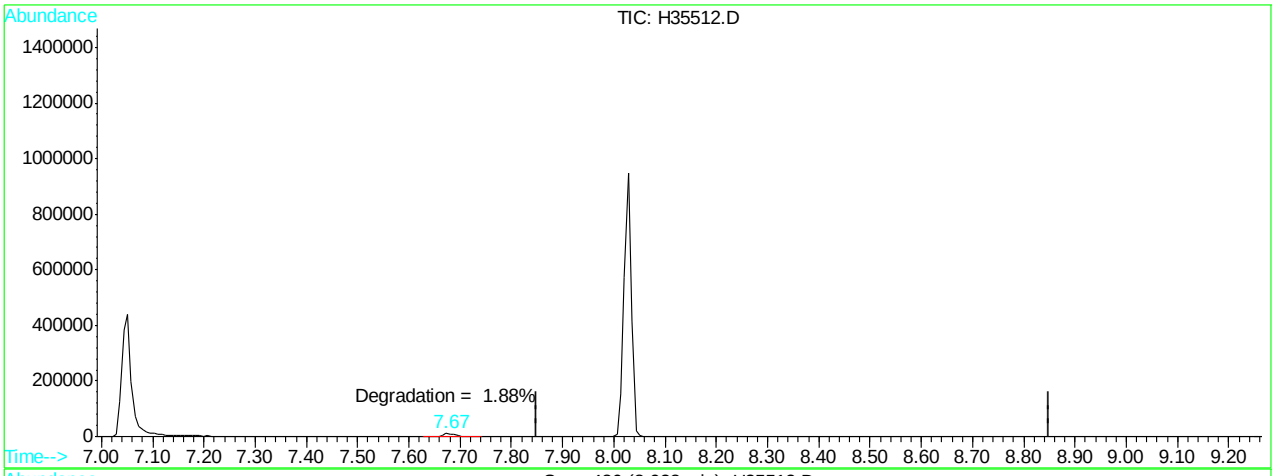
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

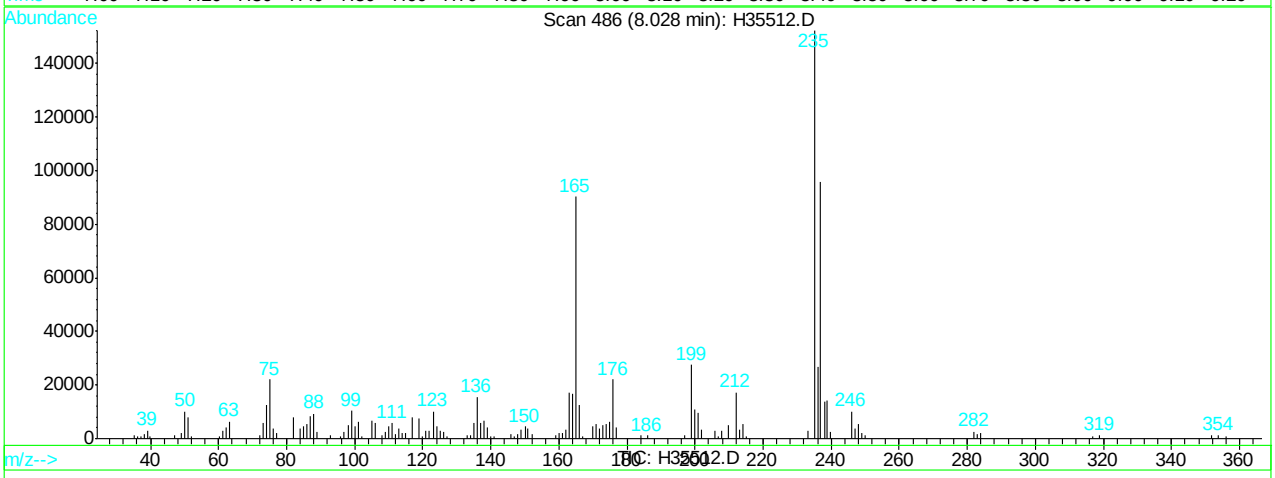
H35512.D DFTPP.M Wed Oct 21 10:55:47 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35512.D Vial: 1
Acq On : 21 Oct 2009 10:48 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 21 10:55 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(4) DDT

8.03min 0.00

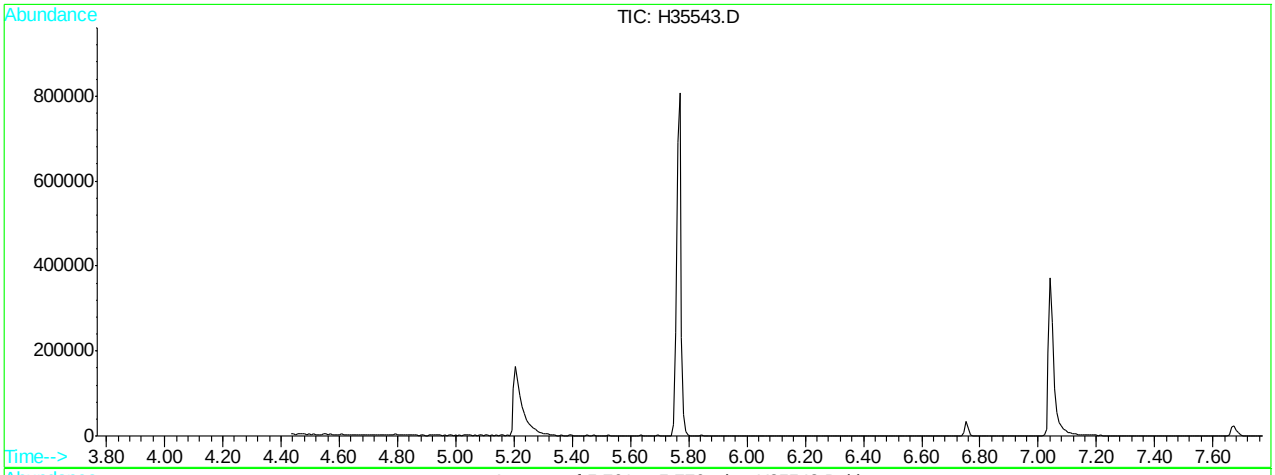
response 943744

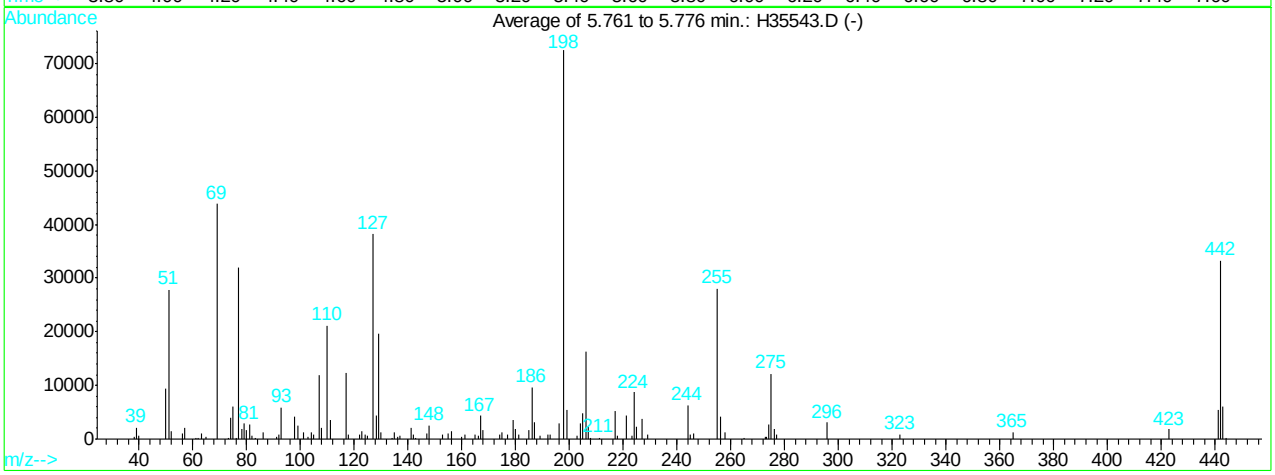
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

H35512.D DFTPP.M Wed Oct 21 10:55:56 2009

DFTPP

```
Data File : C:\HPCHEM\1\DATA\EH1919\H35543.D            Vial: 1
Acq On    : 22 Oct 2009  11:03 am                   Operator: sheilac
Sample    : dftpp                                   Inst    : TXMSH
Misc      : OP12779,EH1919,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title     : 8270 BNA TUNING STD'S
```





AutoFind: Scans 180, 181, 182; Background Corrected with Scan 175

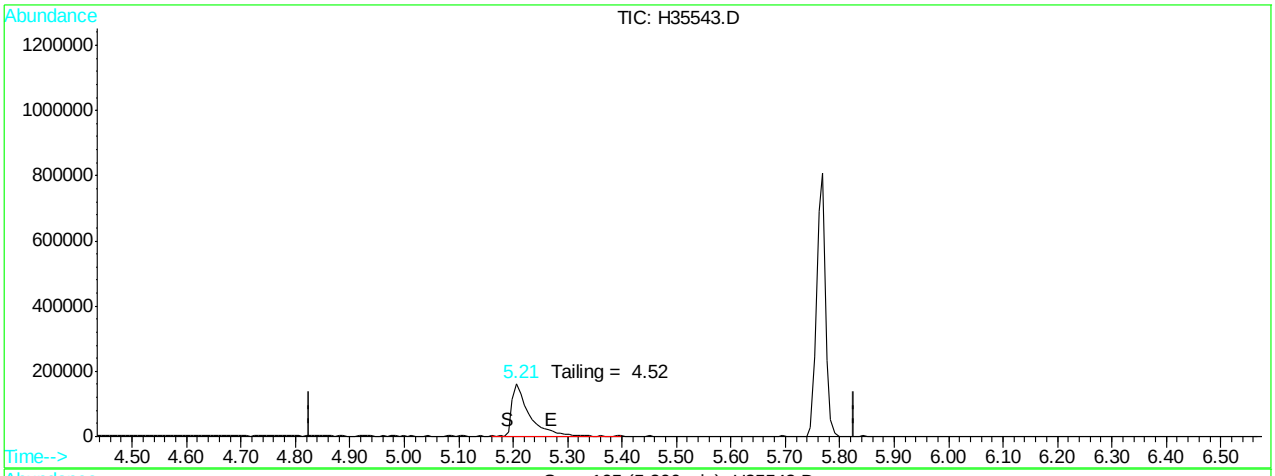
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.5	27870	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	60.5	43827	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.7	38197	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	72445	PASS
199	198	5	9	7.5	5433	PASS
275	198	10	30	16.9	12215	PASS
365	198	1	100	1.8	1283	PASS
441	443	0.01	100	88.3	5444	PASS
442	198	40	100	45.9	33280	PASS
443	442	17	23	18.5	6166	PASS

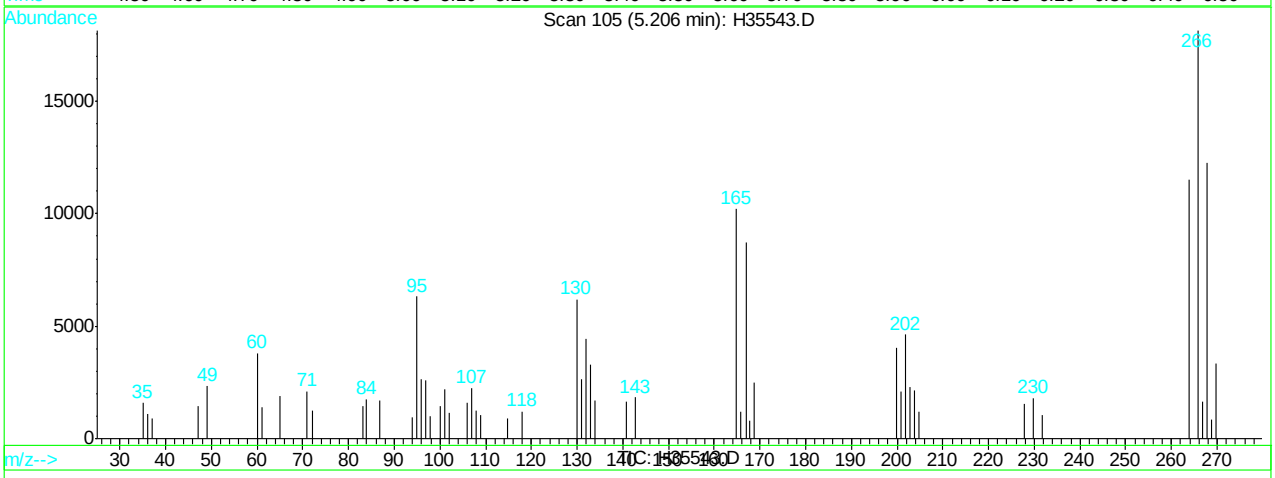
H35543.D DFTPP.M Thu Oct 22 11:06:22 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35543.D Vial: 1
Acq On : 22 Oct 2009 11:03 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 11:06 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(1) Pentachlorophenol

5.21min 0.00

response 350312

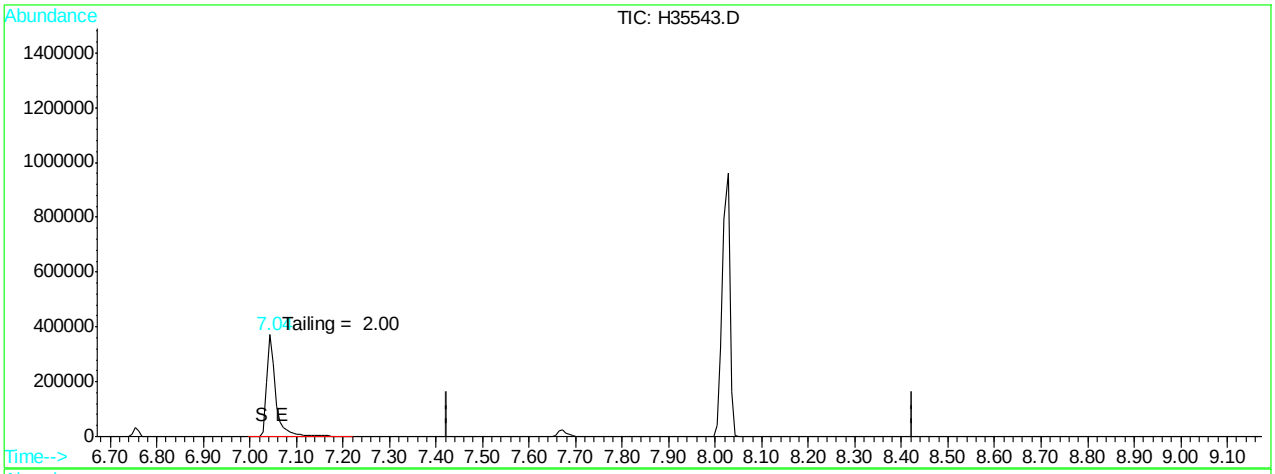
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

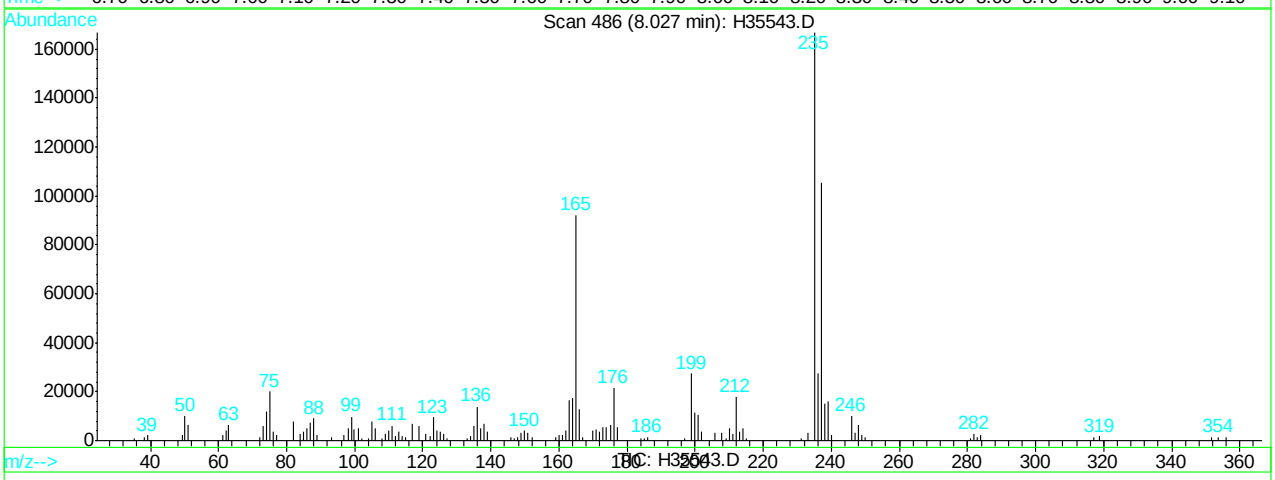
H35543.D DFTPP.M Thu Oct 22 11:06:44 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35543.D Vial: 1
Acq On : 22 Oct 2009 11:03 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 11:06 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(3) Benzidine

8.03min 0.00

response 1016552

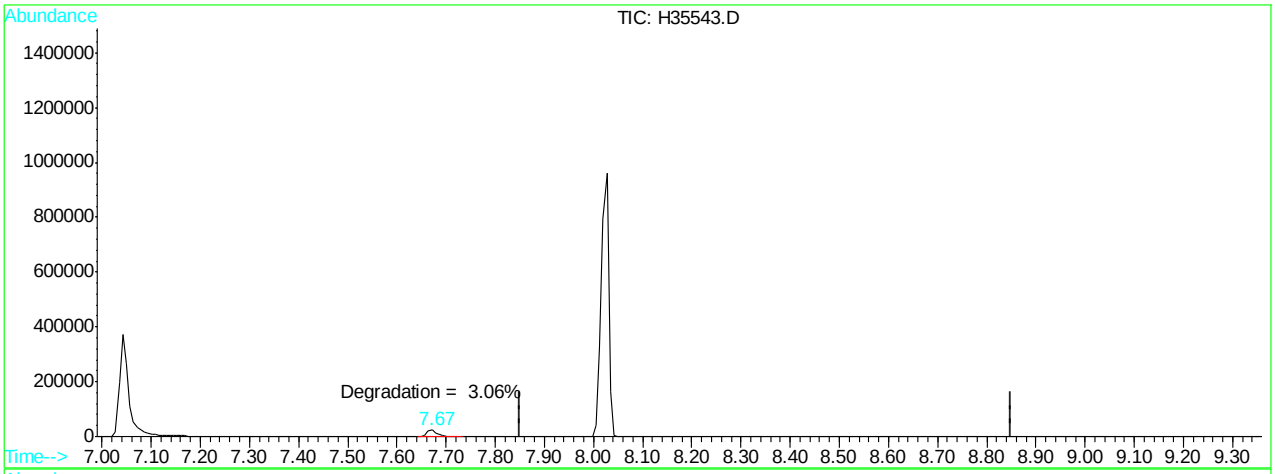
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

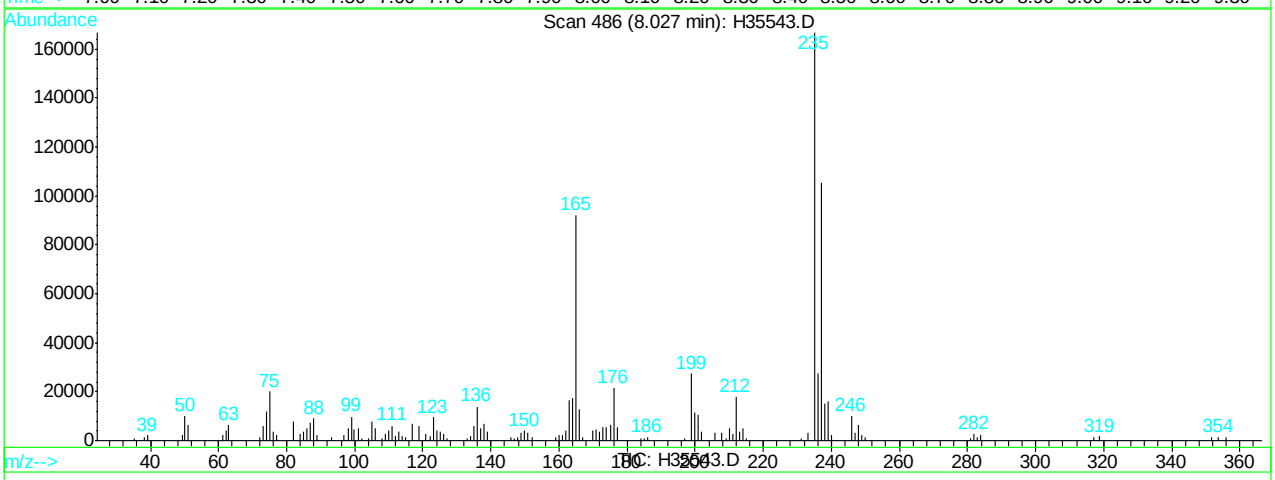
H35543.D DFTPP.M Thu Oct 22 11:06:52 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35543.D Vial: 1
Acq On : 22 Oct 2009 11:03 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 22 11:06 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)
Title : 8270 BNA TUNING STD'S
Last Update : Thu Oct 08 13:23:36 2009
Response via : Single Level Calibration





(4) DDT

8.03min 0.00

response 1016552

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

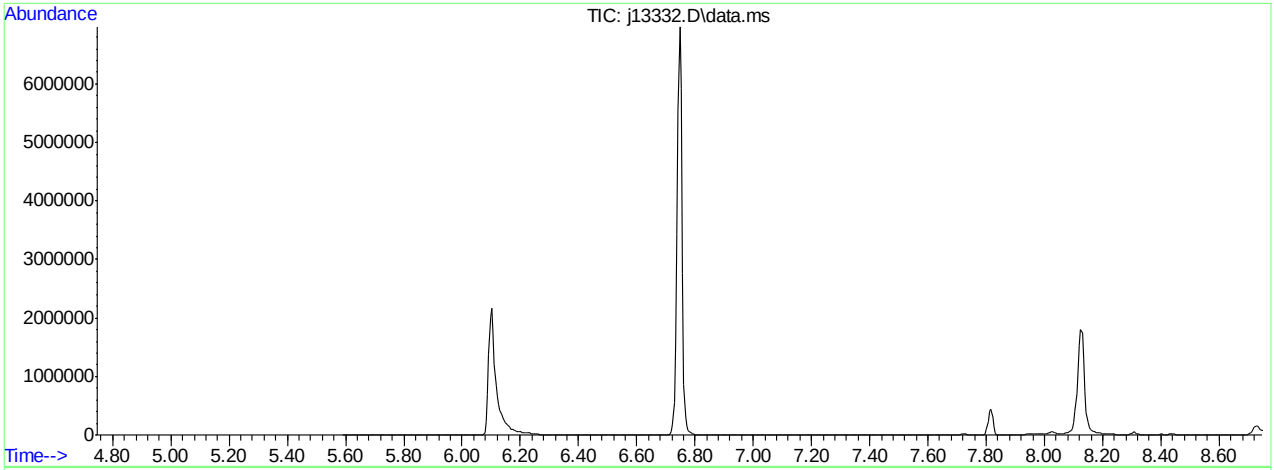
H35543.D DFTPP.M Thu Oct 22 11:07:01 2009

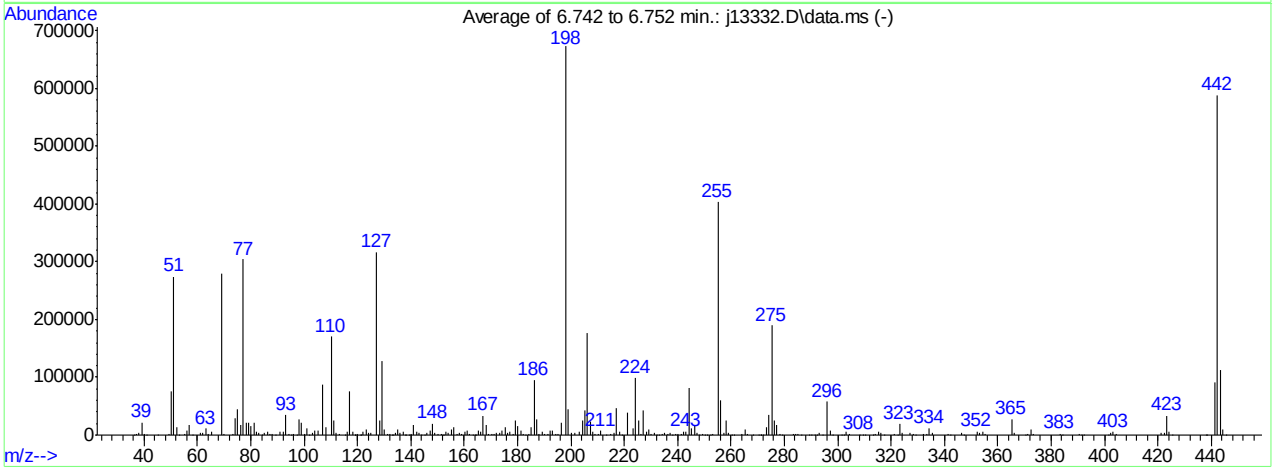
DFTPP

Data File : C:\msdchem\1\DATA\ej615\j13332.D
Acq On : 23 Sep 2009 10:37 am
Sample : dftpp
Misc : op12949,Ej615,1000,,,1,1,water
MS Integration Params: rteint.p

Vial: 1
Operator: sheilac
Inst : AGC-VOA-MSJ
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title :





AutoFind: Scans 240, 241, 242; Background Corrected with Scan 230

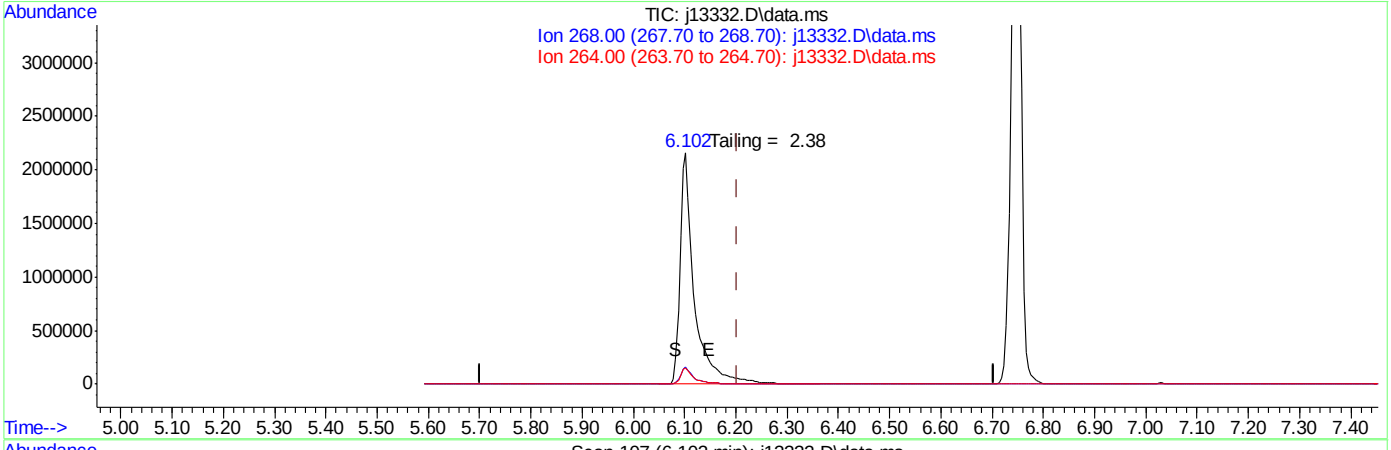
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.7	273877	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.5	279189	PASS
70	69	0.00	2	0.5	1498	PASS
127	198	40	60	47.0	316309	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	672661	PASS
199	198	5	9	6.7	45149	PASS
275	198	10	30	28.3	190080	PASS
365	198	1	100	4.2	27997	PASS
441	443	0.01	100	81.4	92136	PASS
442	198	40	100	87.4	588053	PASS
443	442	17	23	19.3	113253	PASS

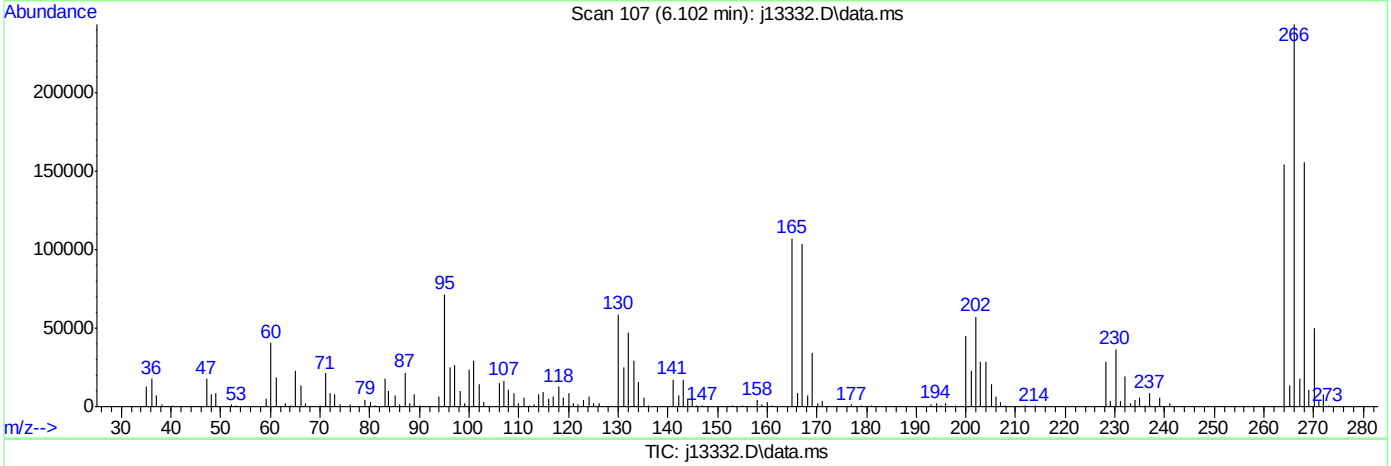
j13332.D dftpp.m Wed Sep 23 15:20:32 2009

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13332.D
Acq On    : 23 Sep 2009  10:37 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Sep 23 10:48:05 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Sep 23 10:27:18 2009
Response via : Initial Calibration
```





TIC: j13332.D\data.ms

(1) Pentachlorophenol

6.102min (-0.101) 0.00

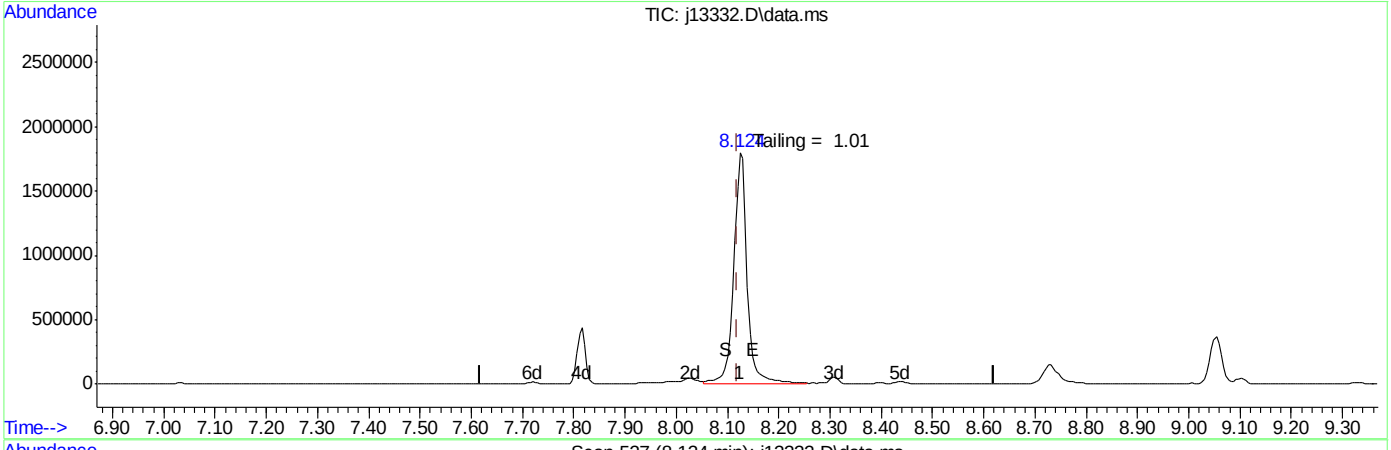
response 4154366

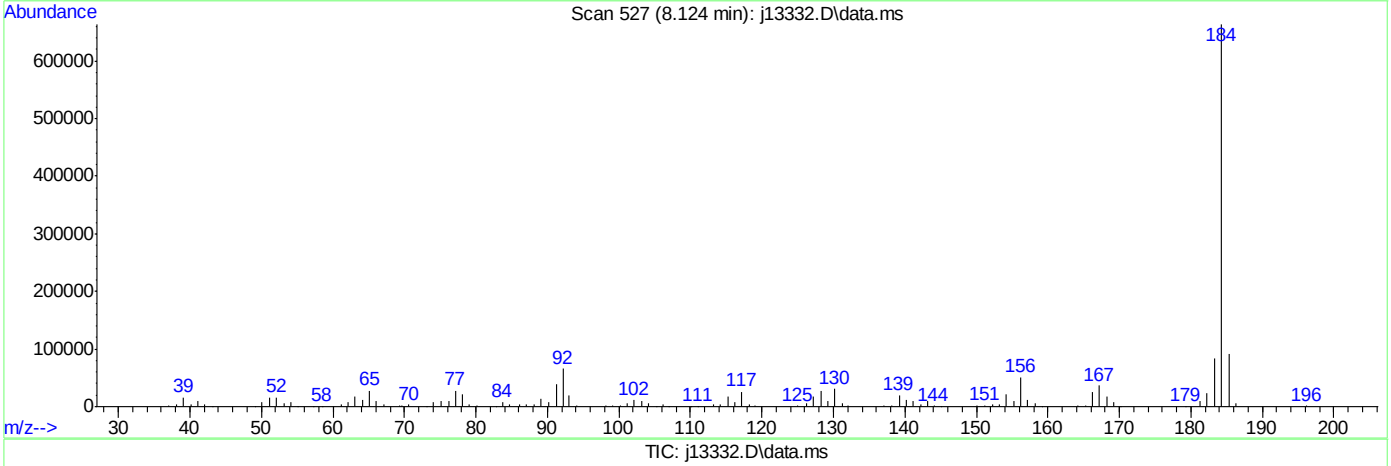
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.36#
264.00	697.70	7.20#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13332.D
Acq On    : 23 Sep 2009  10:37 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Sep 23 10:48:05 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Sep 23 10:27:18 2009
Response via : Initial Calibration
```





TIC: j13332.D\data.ms

(3) Benzidine

8.124min (+0.005) 0.00

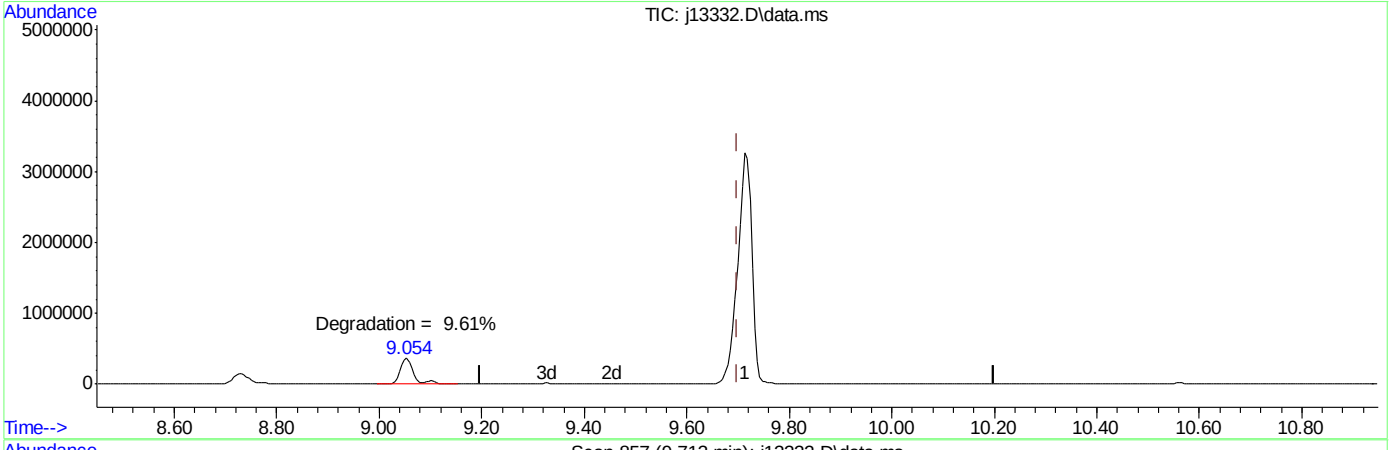
response 3263174

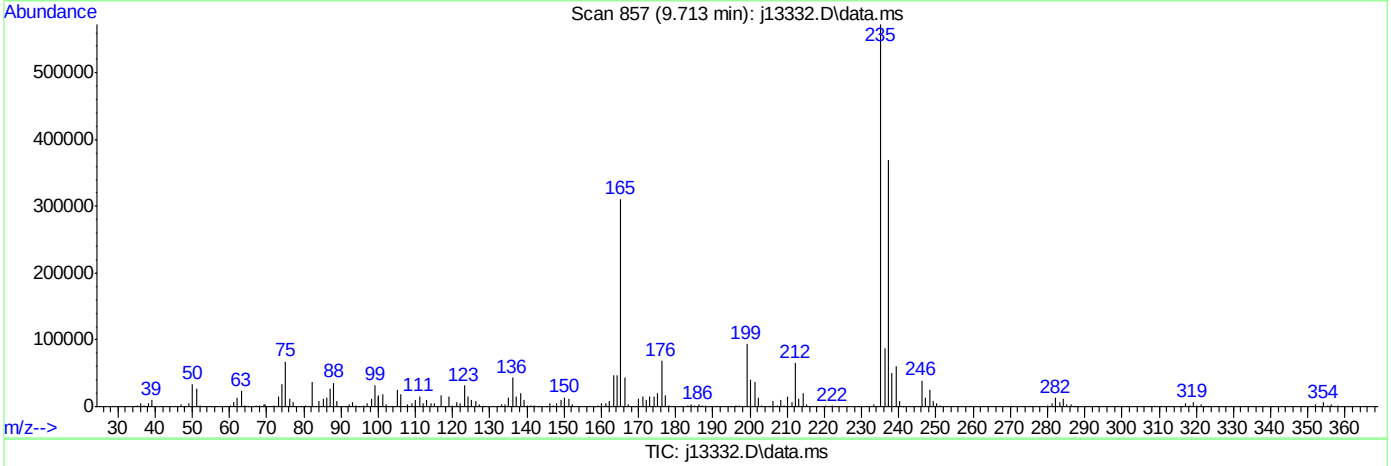
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13332.D
Acq On    : 23 Sep 2009  10:37 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Sep 23 10:48:05 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Sep 23 10:27:18 2009
Response via : Initial Calibration
```





TIC: j13332.D\data.ms

(4) DDT

9.713min (+0.014) 0.00

response 6307525

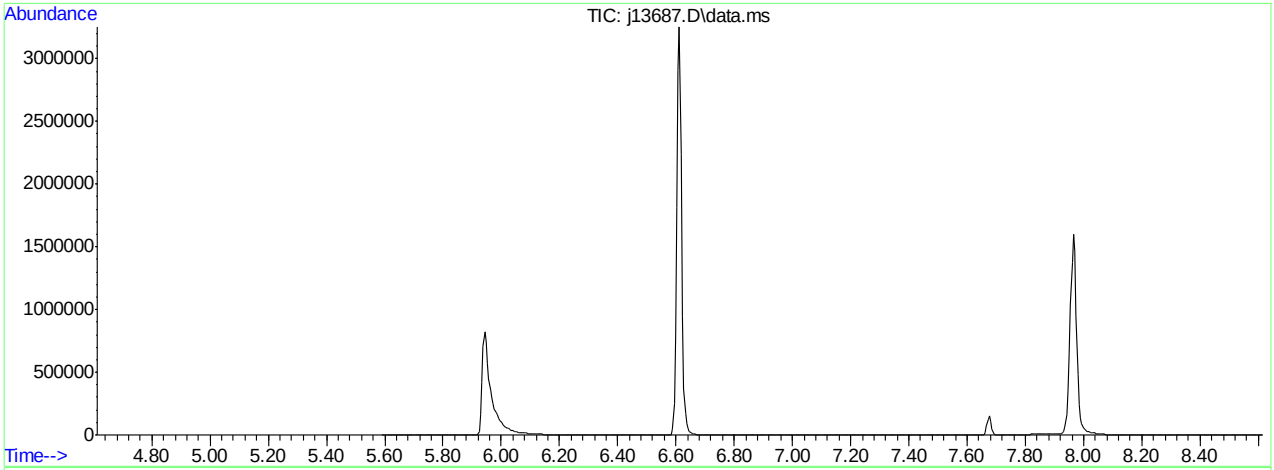
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

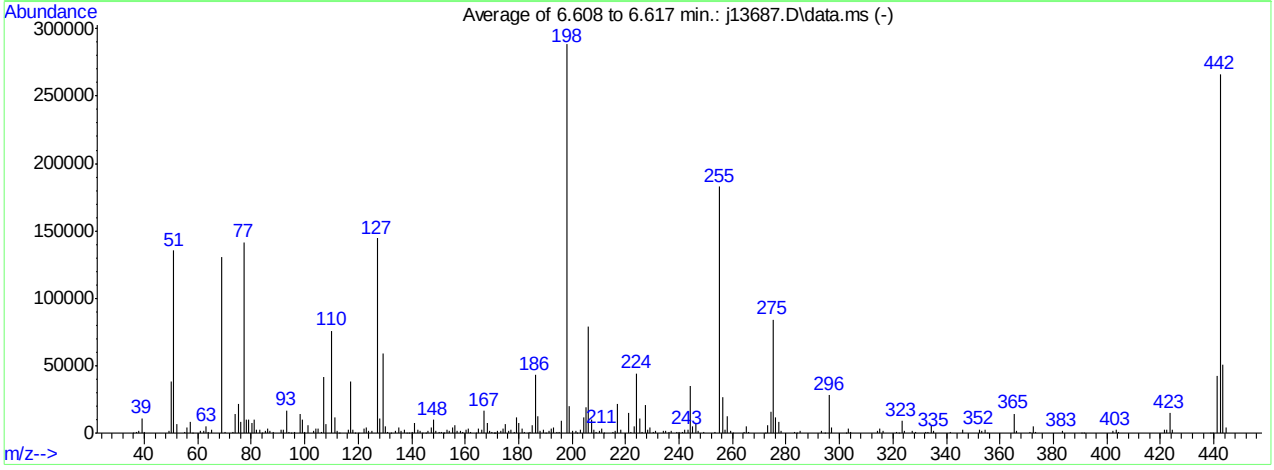
DFTPP

Data File : C:\msdchem\1\DATA\ej629\j13687.D
Acq On : 8 Oct 2009 10:34 am
Sample : dftpp
Misc : op12949,Ej629,1000,,,1,1,water
MS Integration Params: rteint.p

Vial: 1
Operator: sheilac
Inst : AGC-VOA-MSJ
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title :





AutoFind: Scans 212, 213, 214; Background Corrected with Scan 204

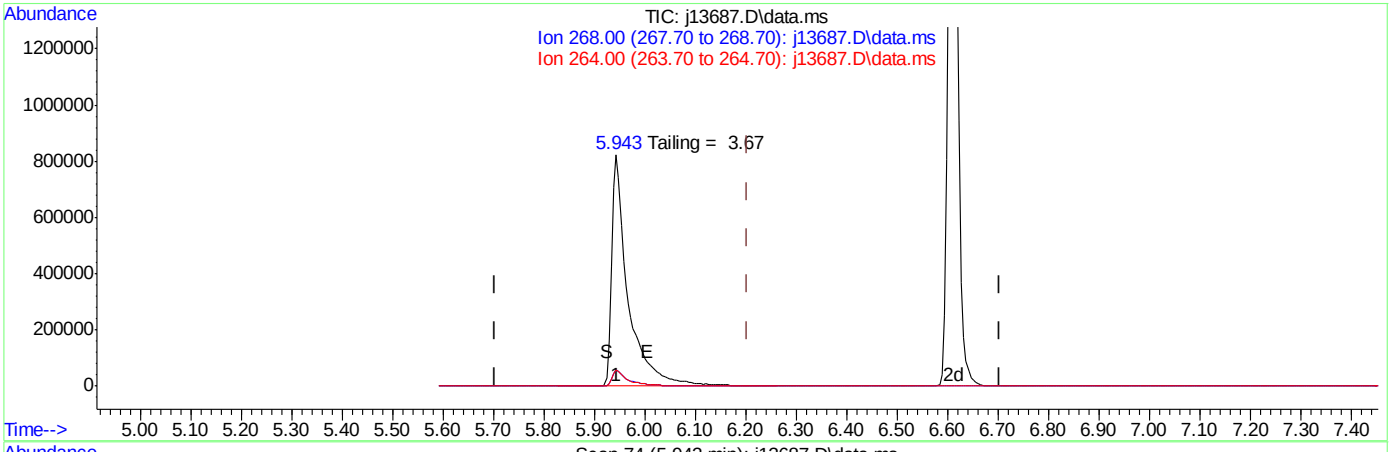
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.0	135432	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.2	130341	PASS
70	69	0.00	2	0.4	563	PASS
127	198	40	60	50.1	144448	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	288299	PASS
199	198	5	9	6.9	19921	PASS
275	198	10	30	29.2	84237	PASS
365	198	1	100	4.9	14155	PASS
441	443	0.01	100	83.7	42573	PASS
442	198	40	100	92.4	266517	PASS
443	442	17	23	19.1	50891	PASS

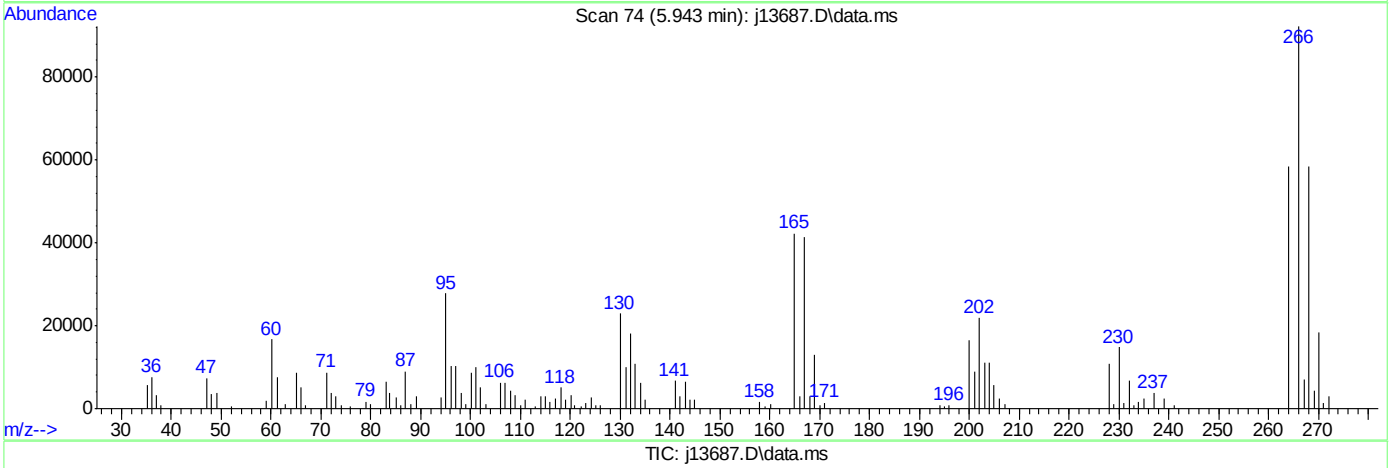
j13687.D dftpp.m Thu Oct 08 10:46:06 2009

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13687.D
Acq On    :  8 Oct 2009  10:34 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej629,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 08 10:47:17 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration
```





(1) Pentachlorophenol

5.943min (-0.260) 0.00

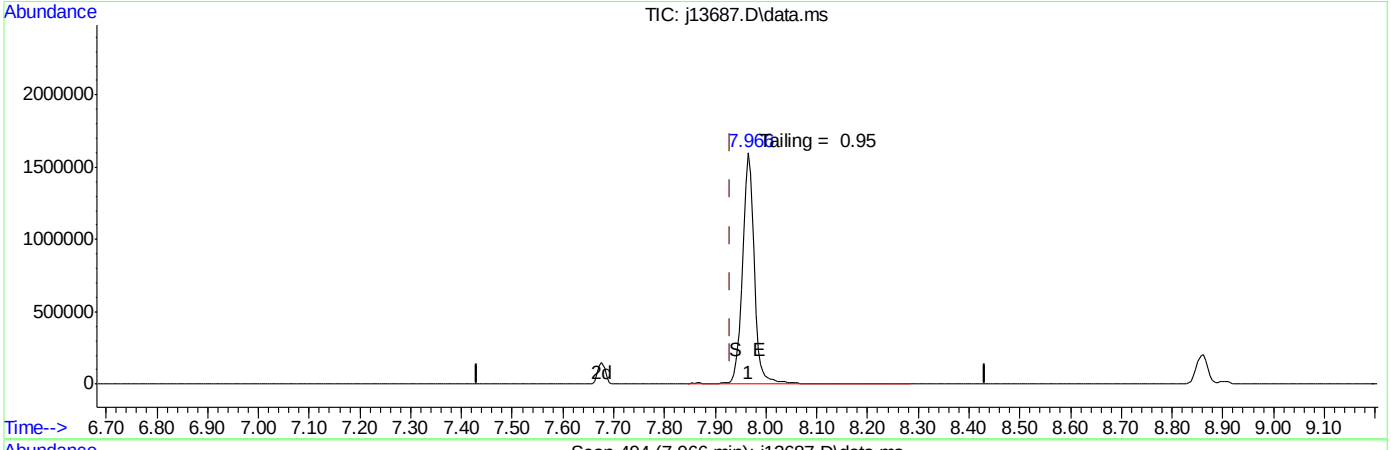
response 1866076

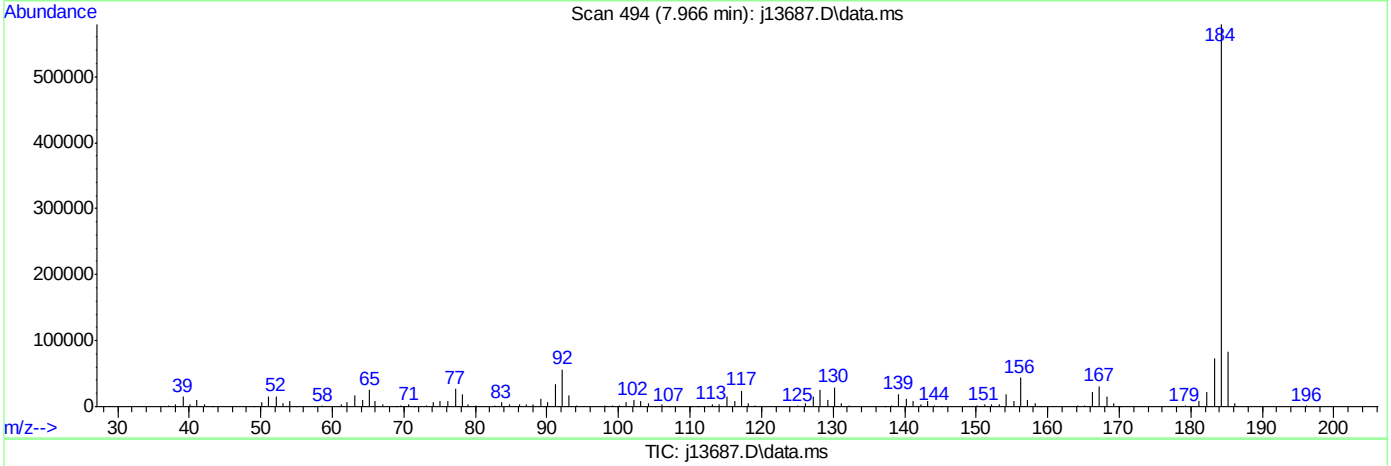
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.51#
264.00	697.70	7.44#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13687.D
Acq On    :  8 Oct 2009  10:34 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej629,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 08 10:47:17 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration
```





TIC: j13687.D\data.ms

(3) Benzidine

7.966min (+0.034) 0.00

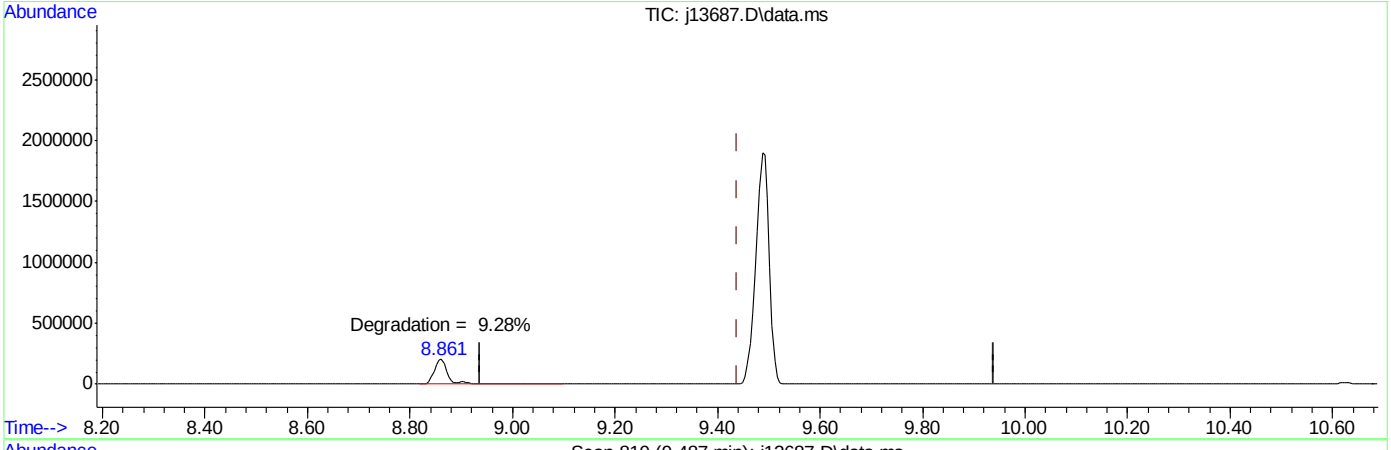
response 2598513

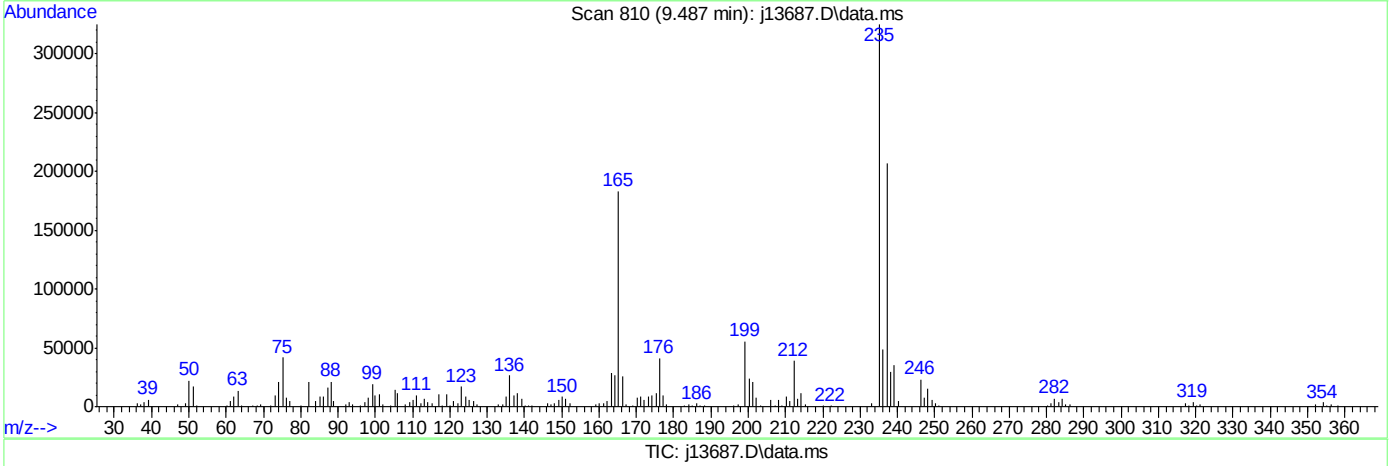
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13687.D
Acq On    :  8 Oct 2009  10:34 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej629,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 08 10:47:17 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration
```





TIC: j13687.D\data.ms

(4) DDT

9.487min (+0.048) 0.00

response 3445977

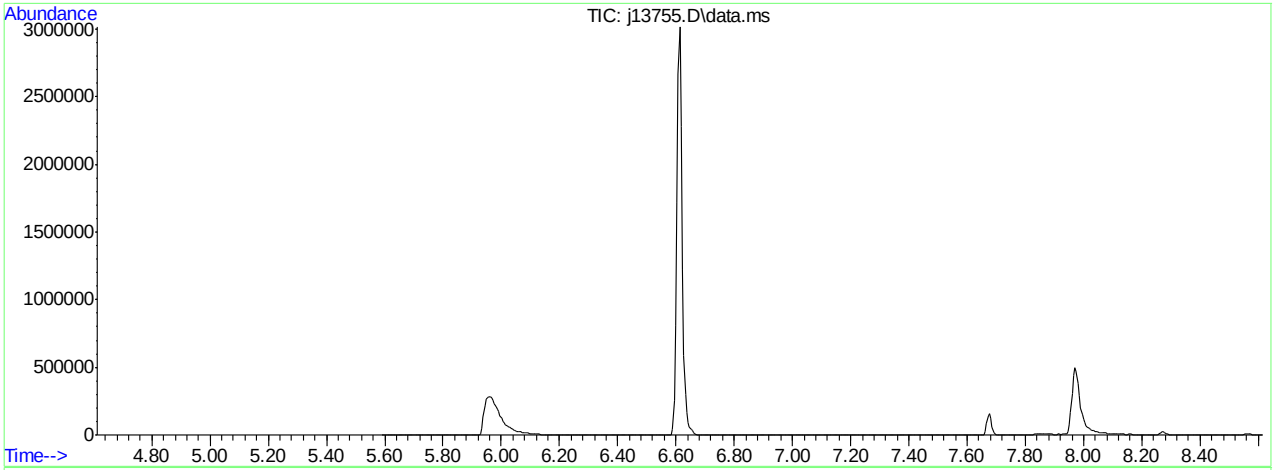
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

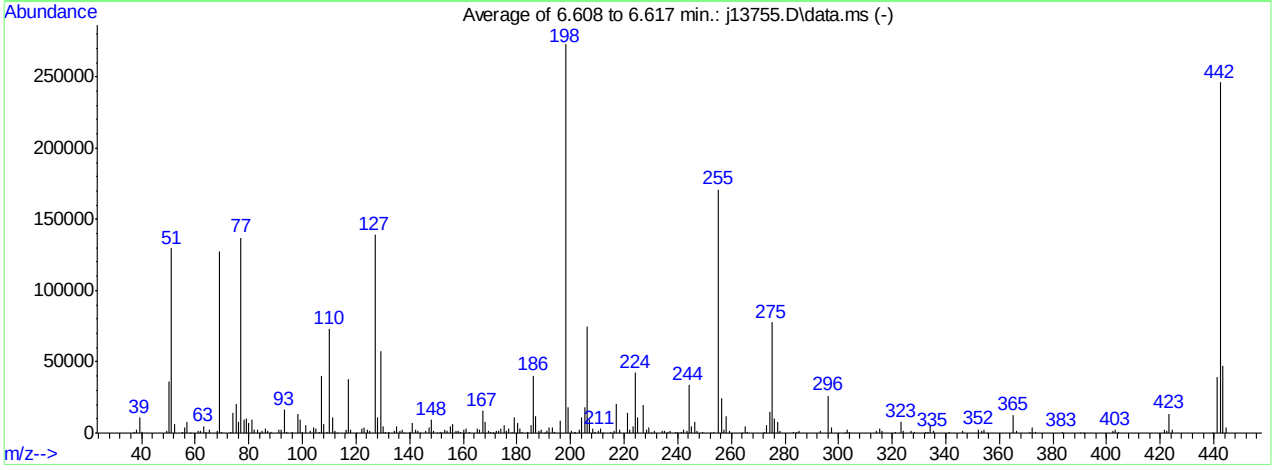
DFTPP

Data File : C:\msdchem\1\DATA\ej632\j13755.D
Acq On : 12 Oct 2009 4:29 pm
Sample : dftpp
Misc : op12949,Ej632,1000,,,1,1,water
MS Integration Params: rteint.p

Vial: 1
Operator: sheilac
Inst : AGC-VOA-MSJ
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title :





AutoFind: Scans 212, 213, 214; Background Corrected with Scan 204

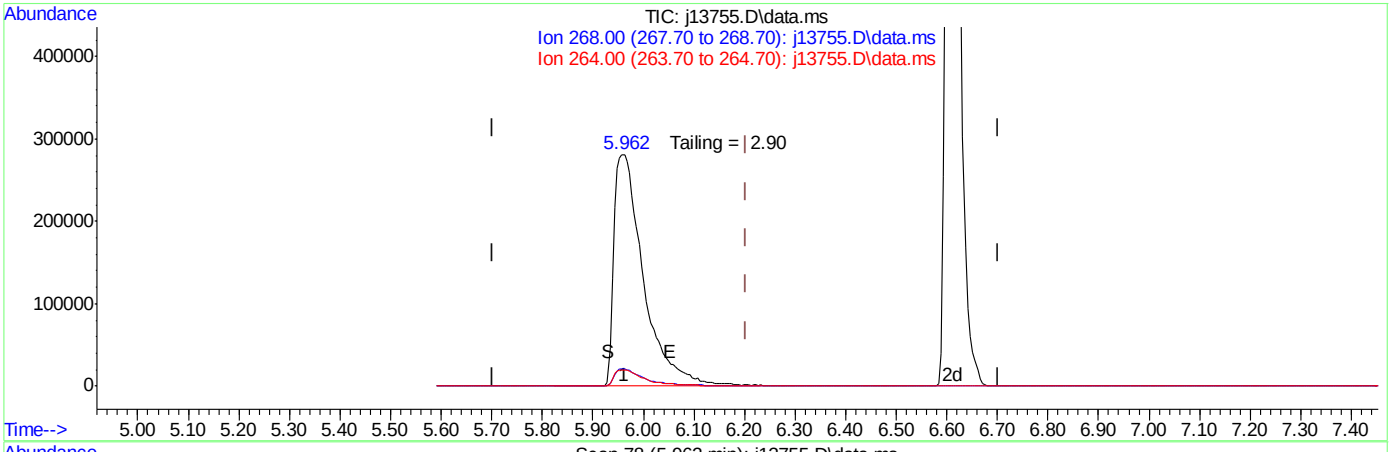
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.5	129509	PASS
68	69	0.00	2	1.0	1260	PASS
69	198	0.00	100	46.8	127701	PASS
70	69	0.00	2	0.5	626	PASS
127	198	40	60	51.0	139147	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	272725	PASS
199	198	5	9	6.7	18252	PASS
275	198	10	30	28.5	77835	PASS
365	198	1	100	4.8	13006	PASS
441	443	0.01	100	82.5	38992	PASS
442	198	40	100	90.3	246144	PASS
443	442	17	23	19.2	47248	PASS

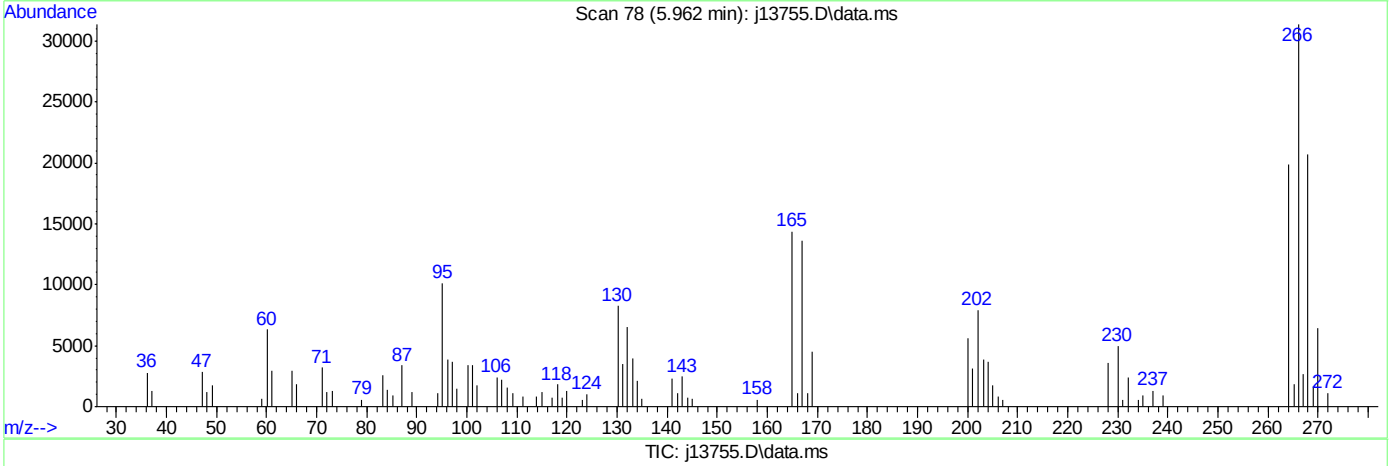
j13755.D dftpp.m Mon Oct 12 20:31:38 2009

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13755.D
Acq On    : 12 Oct 2009   4:29 pm
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej632,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 12 20:31:41 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration
```





TIC: j13755.D\data.ms

(1) Pentachlorophenol

5.962min (-0.241) 0.00

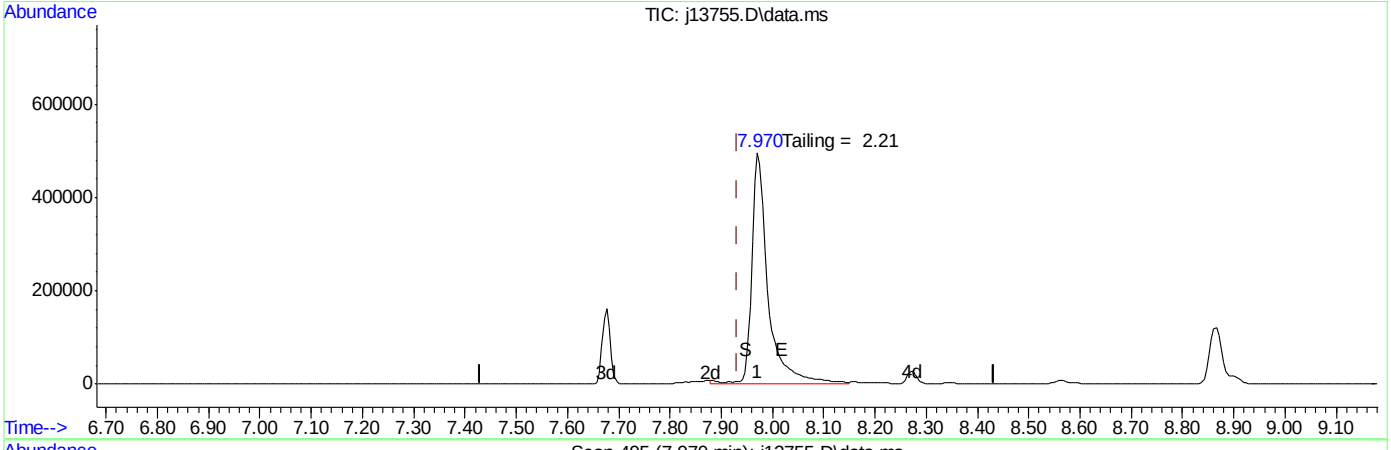
response 1147547

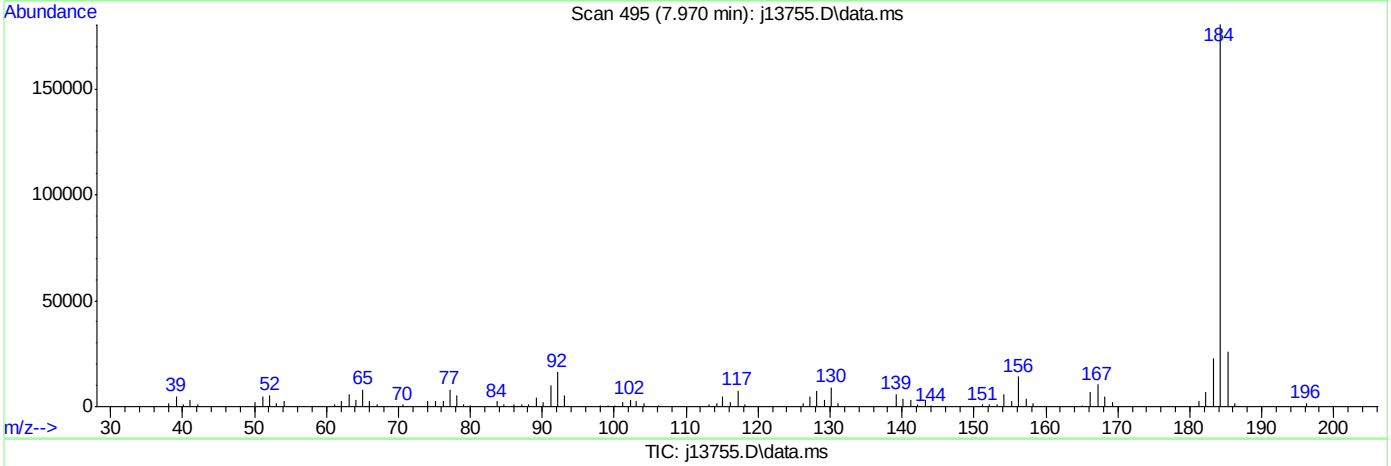
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.85#
264.00	697.70	7.20#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13755.D
Acq On    : 12 Oct 2009   4:29 pm
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej632,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 12 20:31:41 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration
```





TIC: j13755.D\data.ms

(3) Benzidine

7.970min (+0.039) 0.00

response 1057217

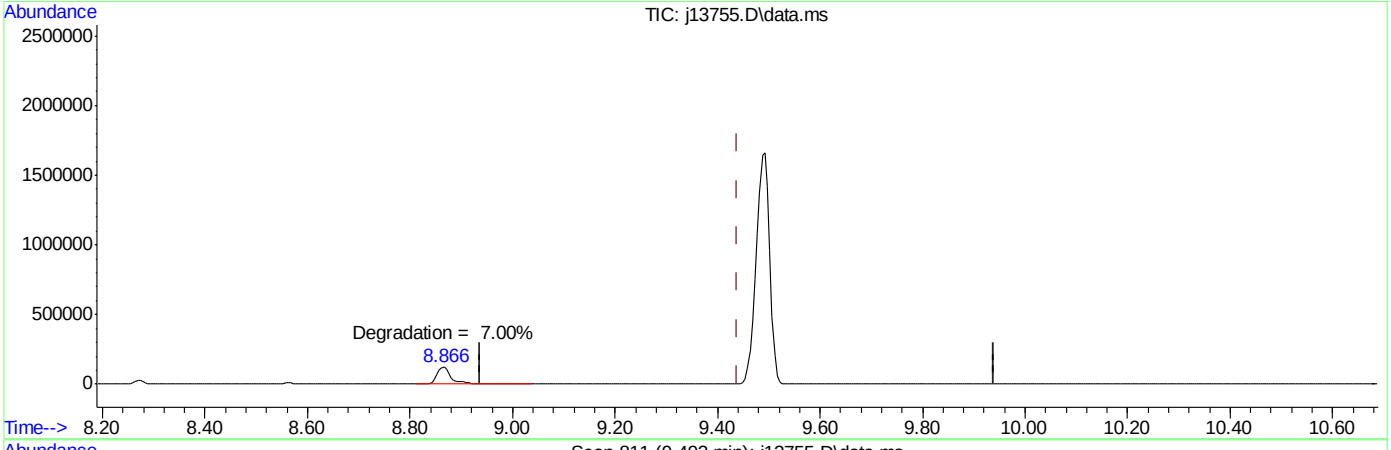
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

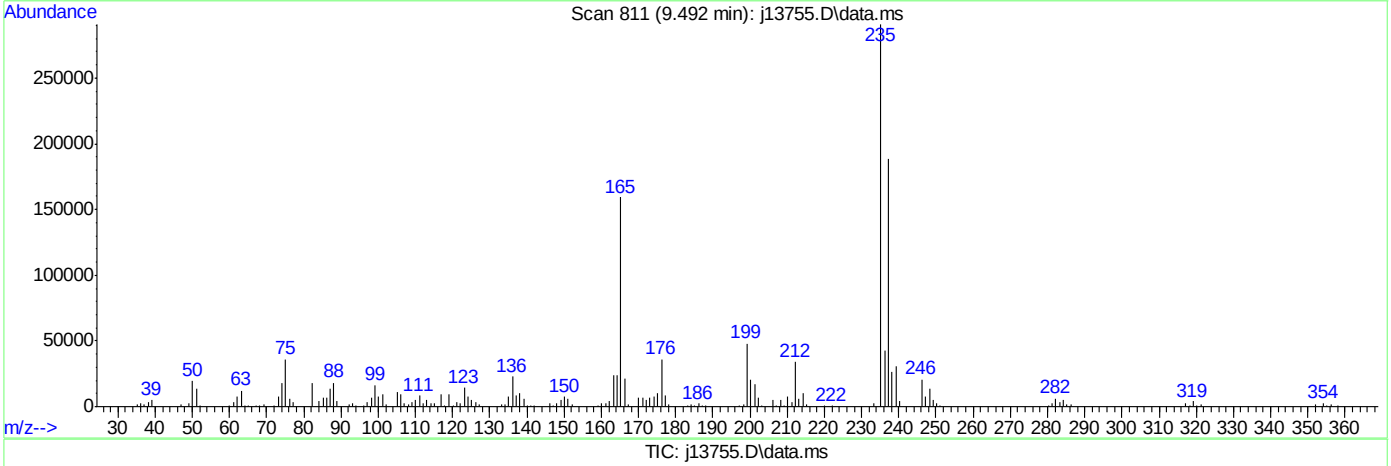
ACCUTEST Laboratories

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13755.D
Acq On    : 12 Oct 2009   4:29 pm
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej632,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 12 20:31:41 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration
```





TIC: j13755.D\data.ms

(4) DDT

9.492min (+0.053) 0.00

response 3048104

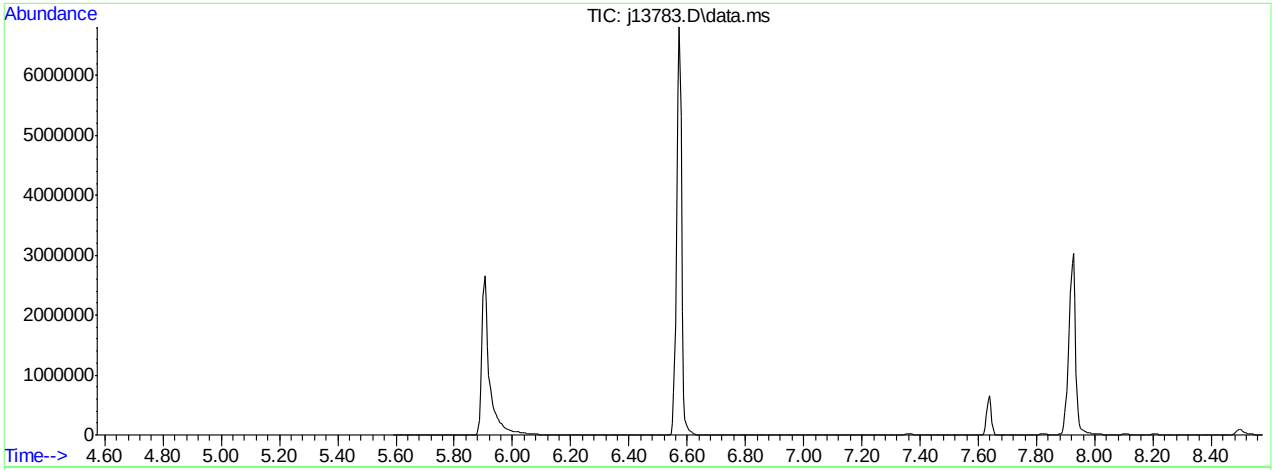
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

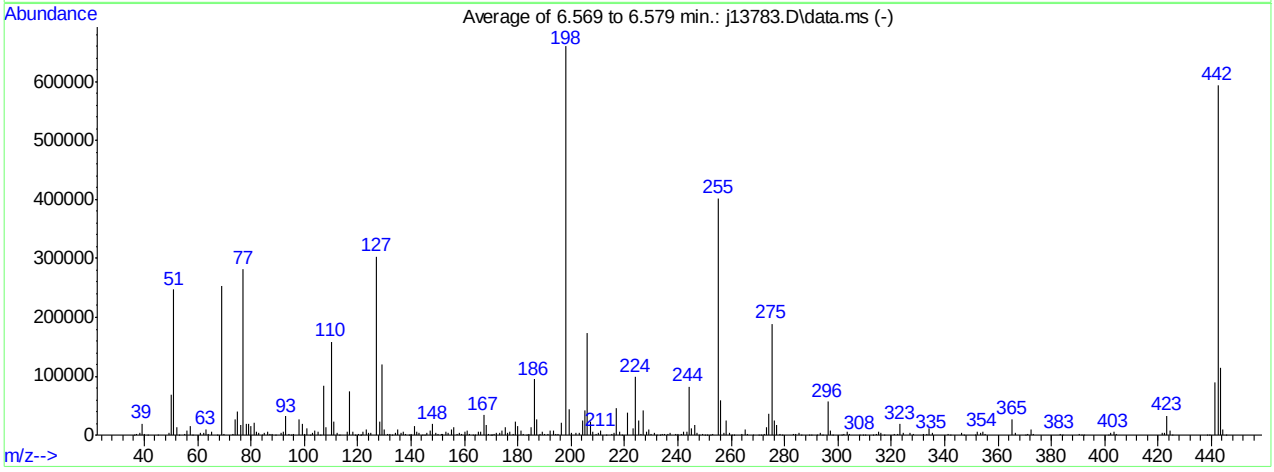
DFTPP

Data File : C:\msdchem\1\DATA\ej633\j13783.D
Acq On : 13 Oct 2009 10:48 am
Sample : dftpp
Misc : op12949,Ej633,1000,,,1,1,water
MS Integration Params: rteint.p

Vial: 1
Operator: sheilac
Inst : AGC-VOA-MSJ
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\dftpp.m (RTE Integrator)
Title :





AutoFind: Scans 204, 205, 206; Background Corrected with Scan 196

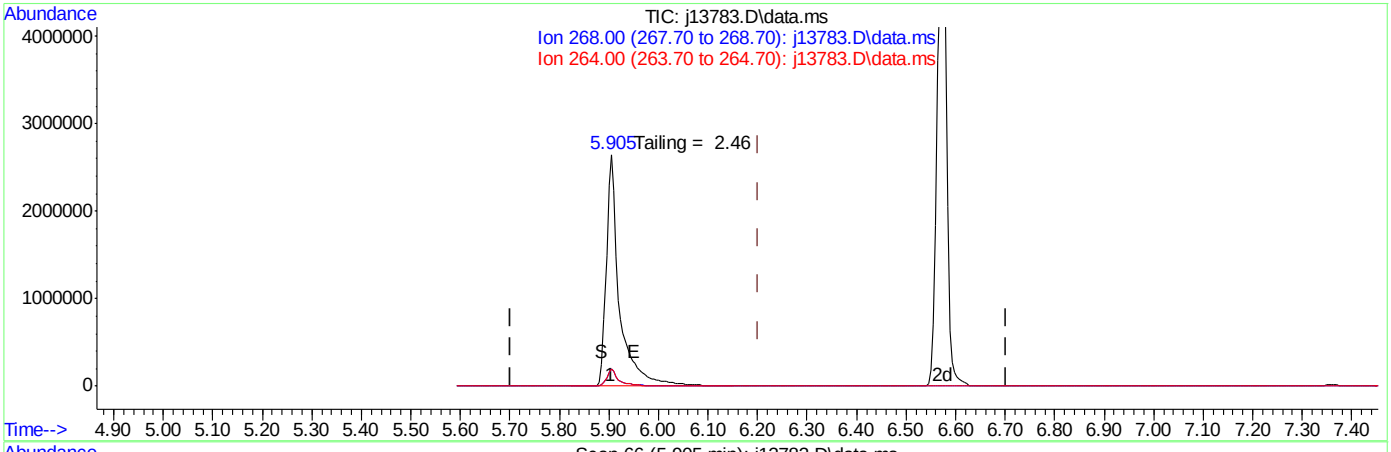
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.4	246976	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.3	253013	PASS
70	69	0.00	2	0.5	1327	PASS
127	198	40	60	46.0	303659	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	660139	PASS
199	198	5	9	6.8	44592	PASS
275	198	10	30	28.7	189269	PASS
365	198	1	100	4.1	26997	PASS
441	443	0.01	100	79.2	90485	PASS
442	198	40	100	90.0	594219	PASS
443	442	17	23	19.2	114219	PASS

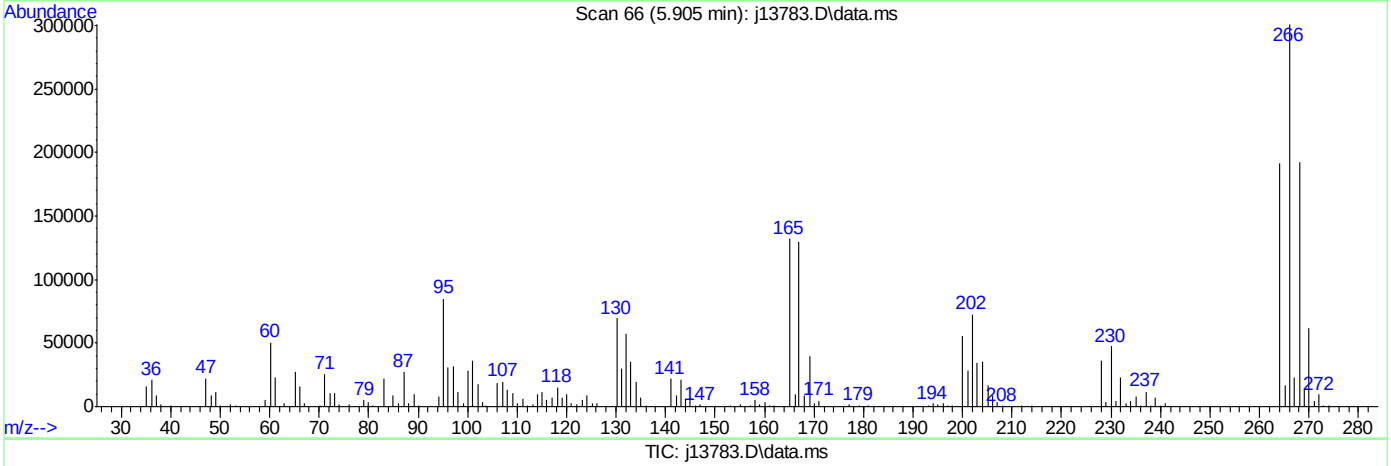
j13783.D dftpp.m Tue Oct 13 10:54:05 2009

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13783.D
Acq On    : 13 Oct 2009  10:48 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej633,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 13 10:54:19 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration
```





TIC: j13783.D\data.ms

(1) Pentachlorophenol

5.905min (-0.299) 0.00

response 4958302

Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.19#
264.00	697.70	7.09#
0.00	0.00	0.00

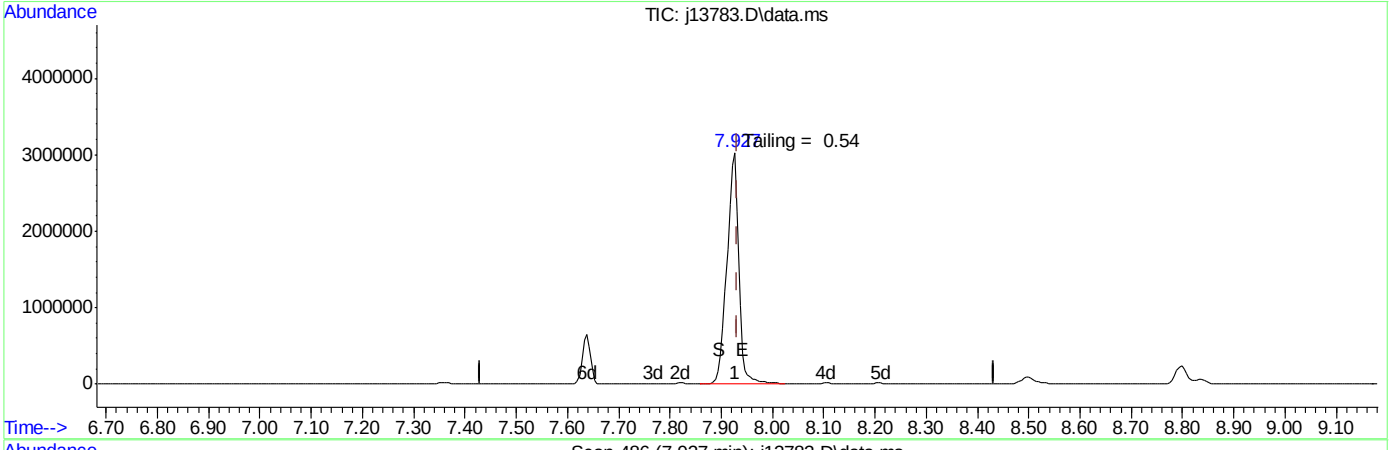
8.5.6.1

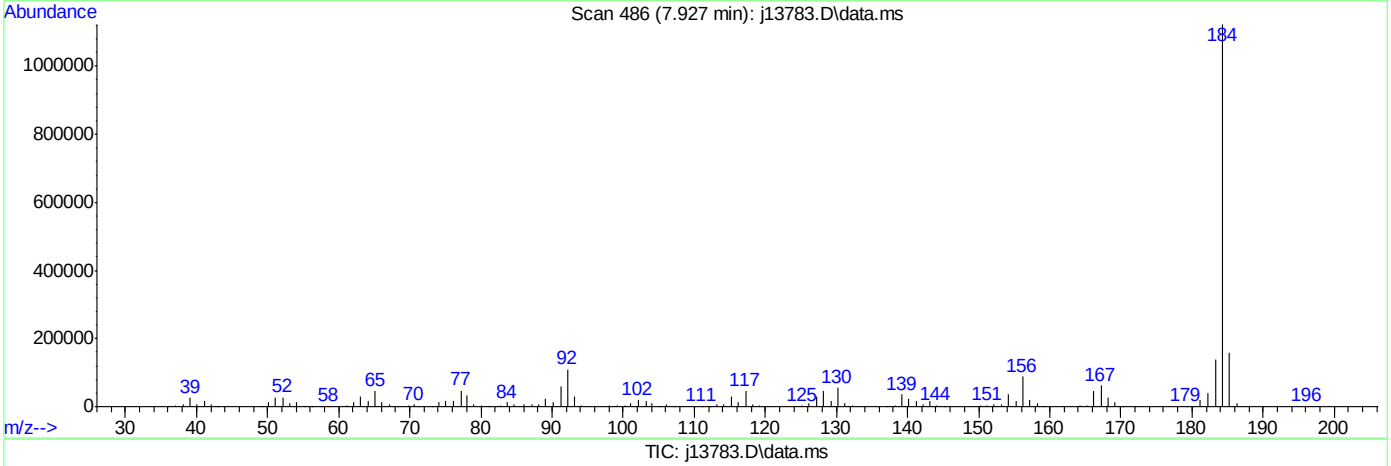
8

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13783.D
Acq On    : 13 Oct 2009  10:48 am
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej633,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 13 10:54:19 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title  :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration
```





TIC: j13783.D\data.ms

(3) Benzidine

7.927min (-0.005) 0.00

response 4939750

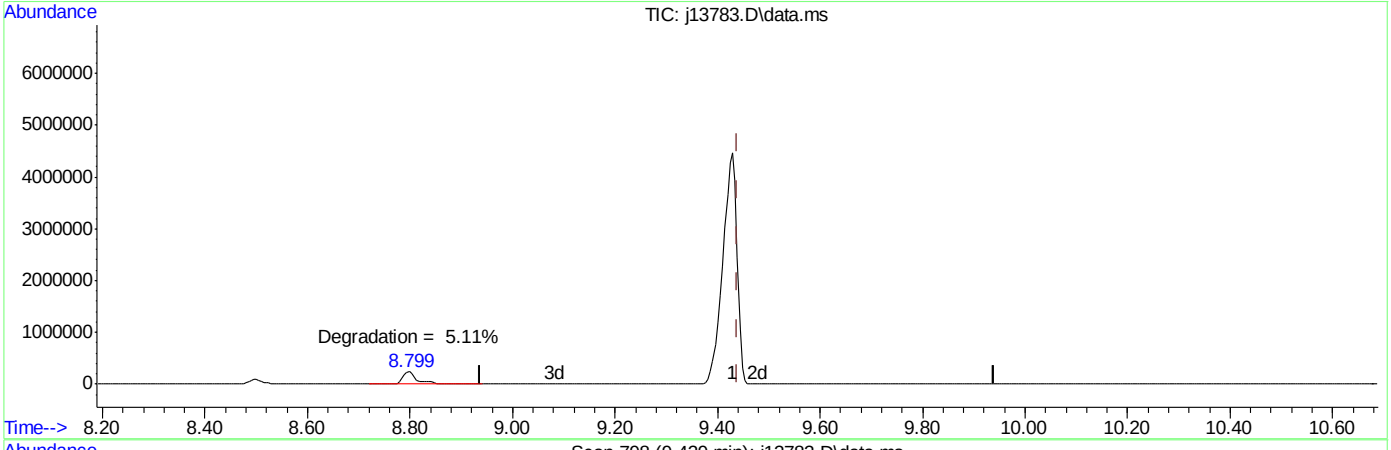
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

ACCUTEST Laboratories T39423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13783.D
Acq On : 13 Oct 2009 10:48 am
Operator : sheilac
Sample : dftpp
Misc : op12949,Ej633,1000,,,1,1,water
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 13 10:54:19 2009
Quant Method : C:\msdchem\1\METHODS\dftpp.m
Quant Title :
QLast Update : Wed Oct 07 16:21:49 2009
Response via : Initial Calibration



TIC: j13783.D\data.ms

(4) DDT

9.429min (-0.010) 0.00

response 8682895

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

ACCUTEST Laboratories

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 13:13:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	74952	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	71607	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	63482	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	78072	4.00	ppb	0.00
21) Chrysene-d12	13.89	240	38772	4.00	ppb	0.02
26) Perylene-d12	16.35	264	6173	4.00	ppb	0.04

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	49051	8.44	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 168.80%#			
10) 2-Fluorobiphenyl	8.87	172	511620	13.35	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 267.00%#			
16) 2,4,6-Tribromophenol	10.40	330	78101	19.30	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 193.00%#			
23) Terphenyl-d14	12.66	244	88294	18.13	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 362.60%#			

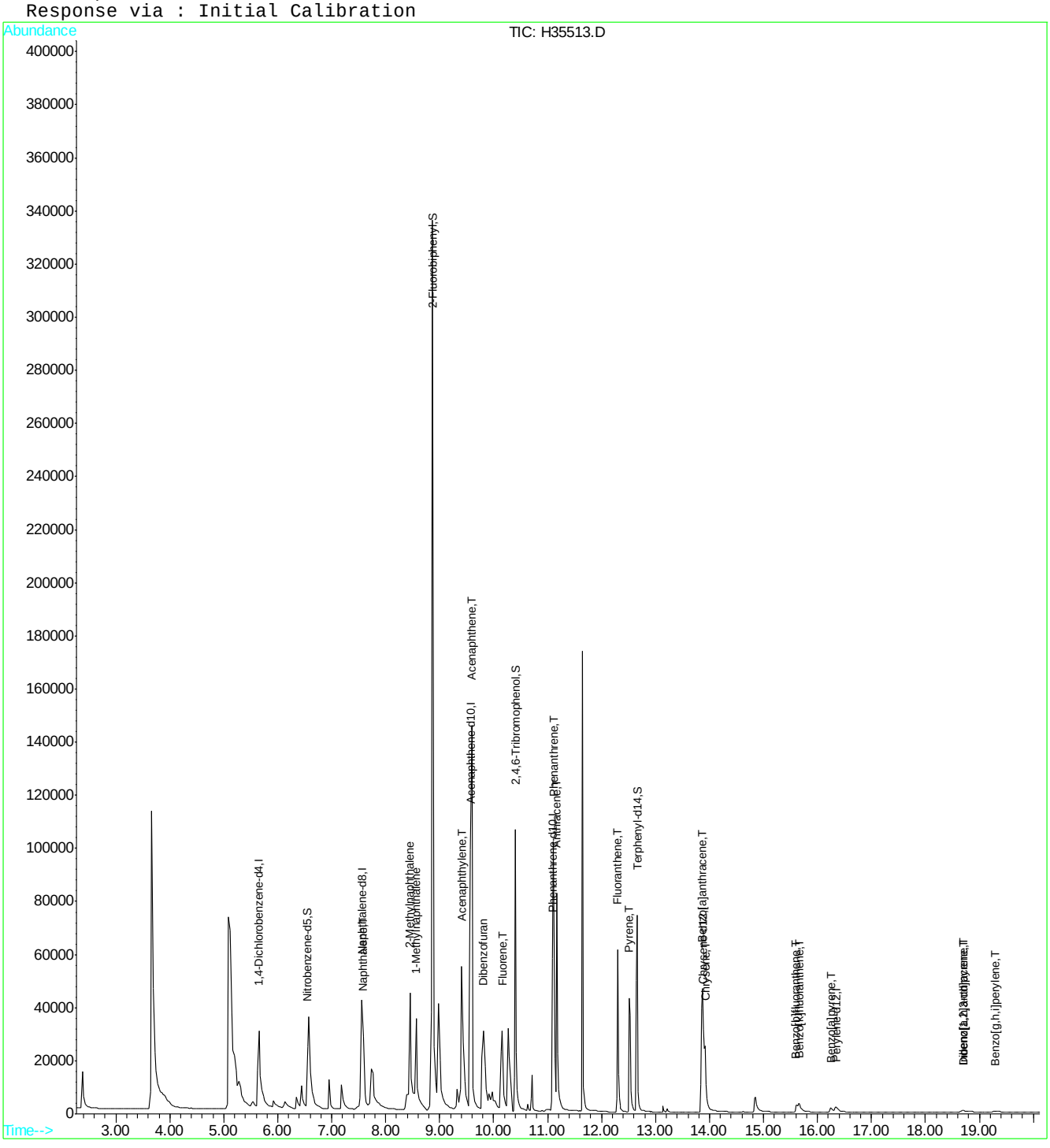
Target Compounds							Qvalue
6) Naphthalene	7.59	128	43283	1.48	ppb		99
7) 2-Methylnaphthalene	8.45	142	65977m	2.68	ppb		
8) 1-Methylnaphthalene	8.56	142	64152	1.79	ppb	#	89
11) Acenaphthylene	9.41	152	87398	1.76	ppb		91
12) Acenaphthene	9.60	153	95669	2.53	ppb		85
13) Dibenzofuran	9.81	168	53398	1.67	ppb	#	70
14) Fluorene	10.16	166	34478	1.45	ppb	#	47
18) Phenanthrene	11.11	178	96007	2.28	ppb		93
19) Anthracene	11.17	178	100198	2.25	ppb		97
20) Fluoranthene	12.30	202	91180	2.16	ppb		97
22) Pyrene	12.51	202	82372m	3.75	ppb		
24) Benzo[a]anthracene	13.87	228	31362	2.21	ppb		93
25) Chrysene	13.92	228	42086m	2.98	ppb		
27) Benzo[b]fluoranthene	15.60	252	6902m	2.87	ppb		
28) Benzo[k]fluoranthene	15.66	252	11509m	3.47	ppb		
29) Benzo[a]pyrene	16.24	252	5949	2.99	ppb		100
30) Indeno[1,2,3-cd]pyrene	18.70	276	2167	3.20	ppb		96
31) Dibenz[a,h]anthracene	18.70	278	1360	3.23	ppb		98
32) Benzo[g,h,i]perylene	19.29	276	1902	3.89	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: H10219SP.RES

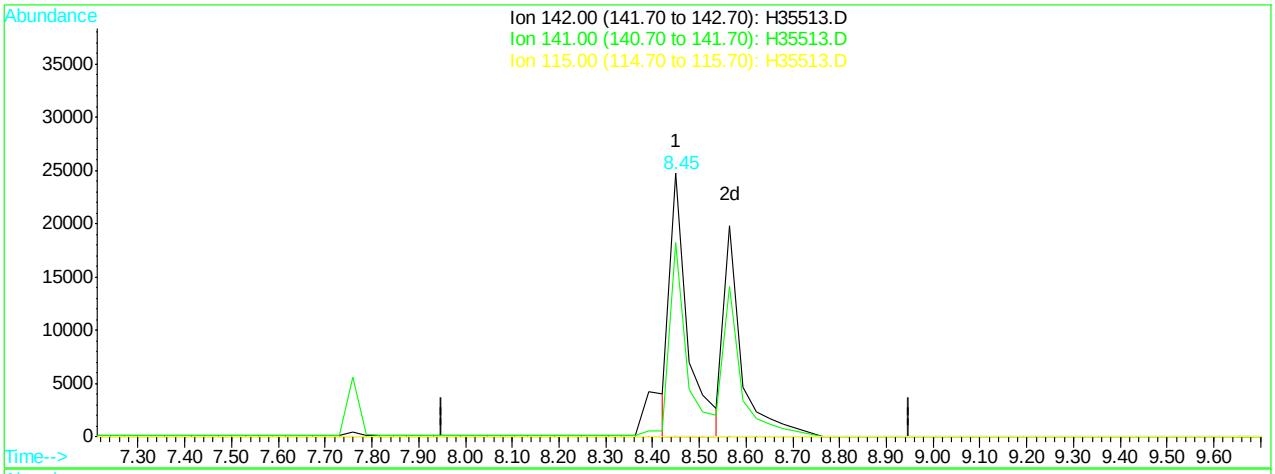
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

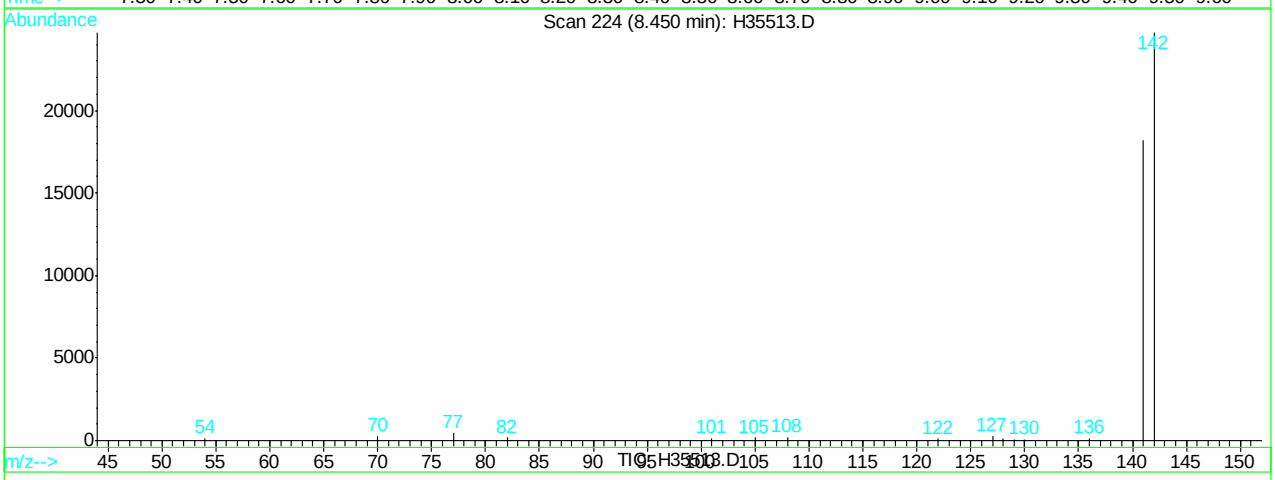


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.45min 2.68ppb m

response 65977

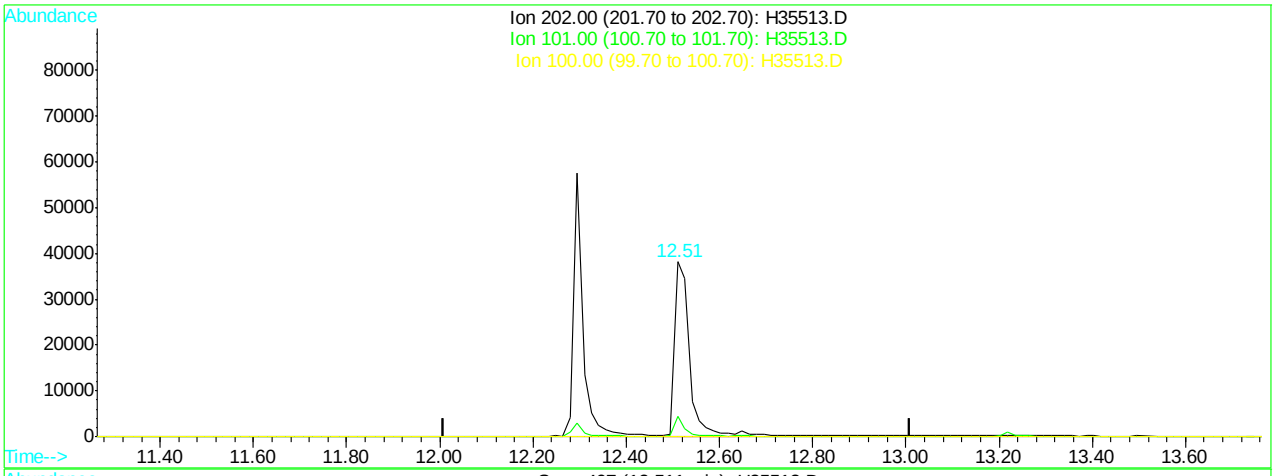
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	72.38
115.00	0.00	0.00
0.00	0.00	0.00

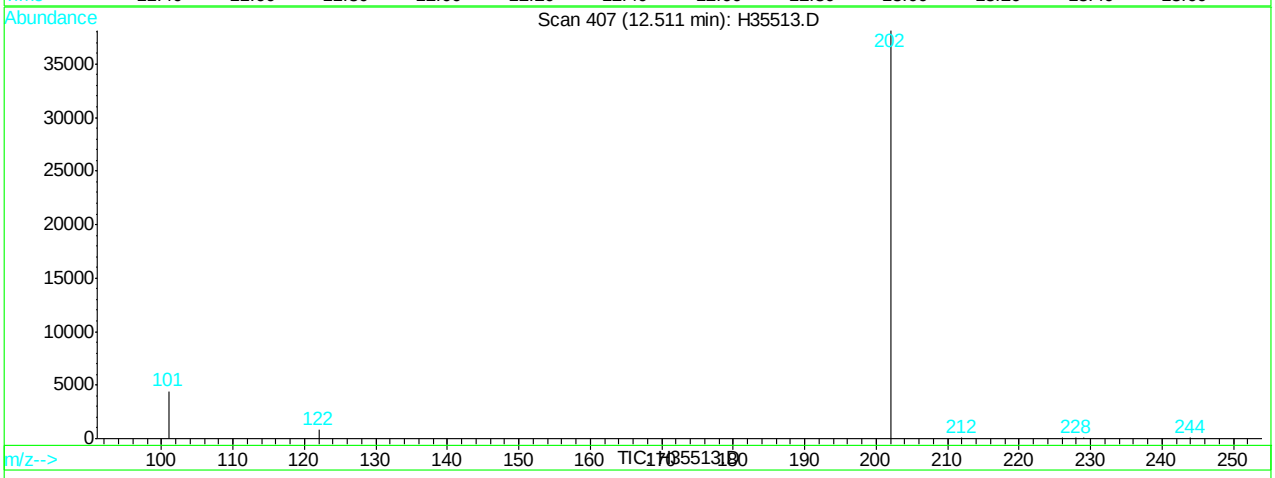
H35513.D H10229SP.M Thu Oct 22 13:28:16 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(22) Pyrene (T)

12.51min 3.75ppb m

response 82372

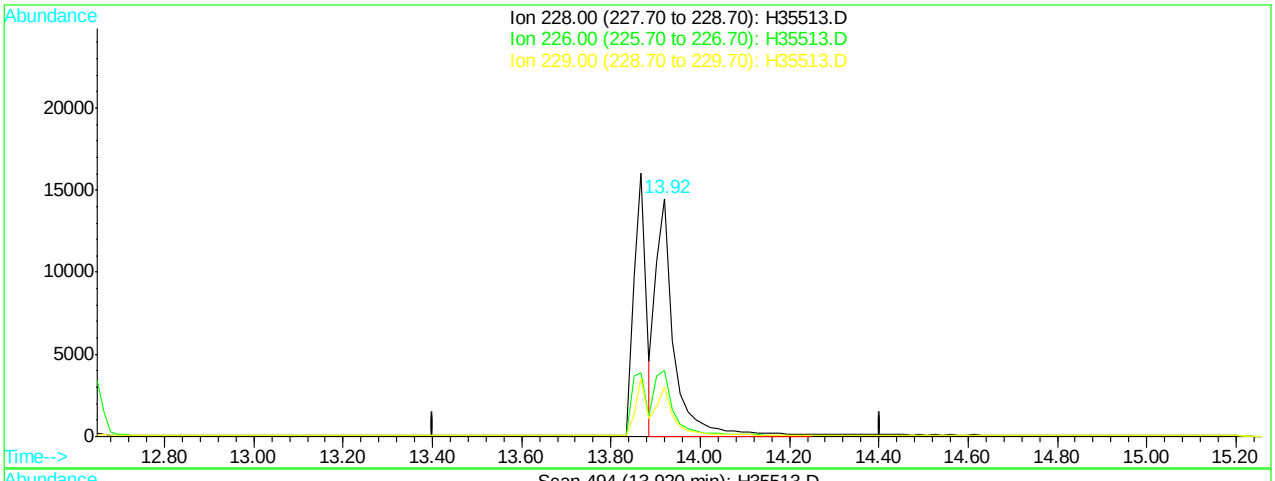
Ion	Exp%	Act%
202.00	100	100
101.00	6.90	11.68#
100.00	0.00	0.00
0.00	0.00	0.00

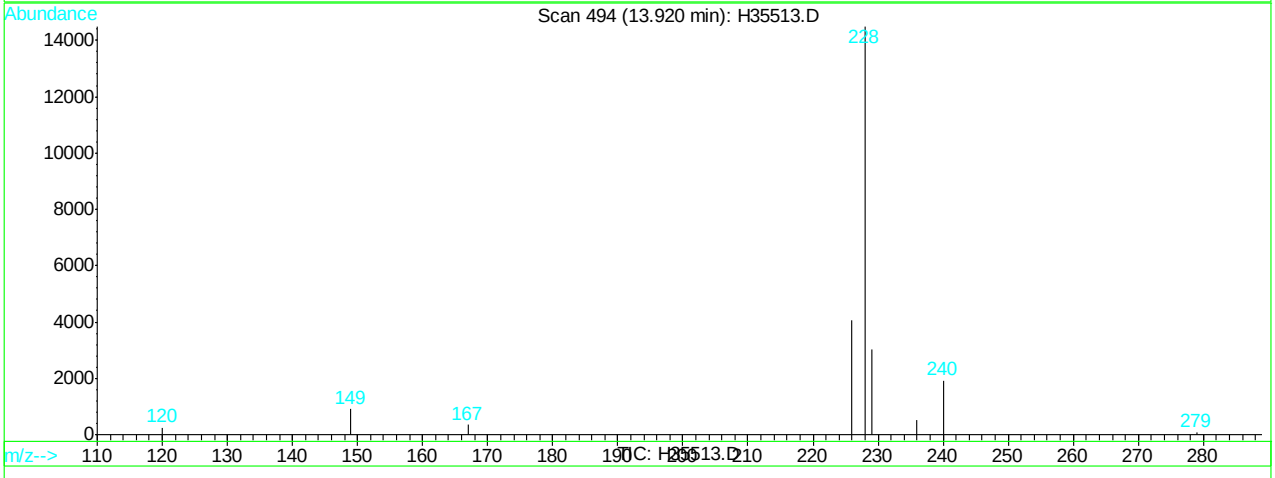
H35513.D H10229SP.M Thu Oct 22 13:28:22 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 2.98ppb m

response 42086

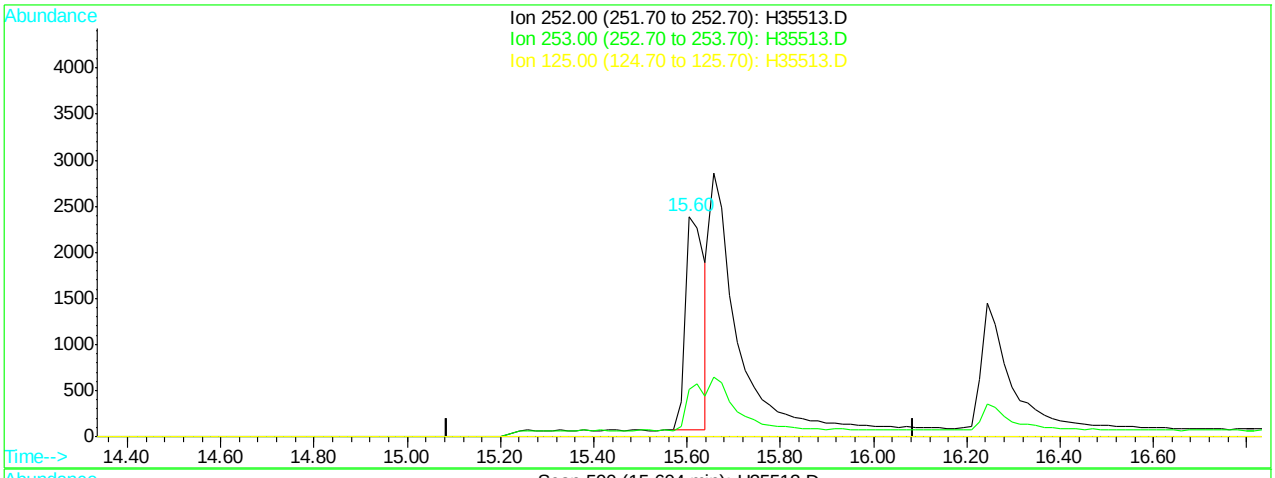
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	27.96
229.00	19.10	20.88
0.00	0.00	0.00

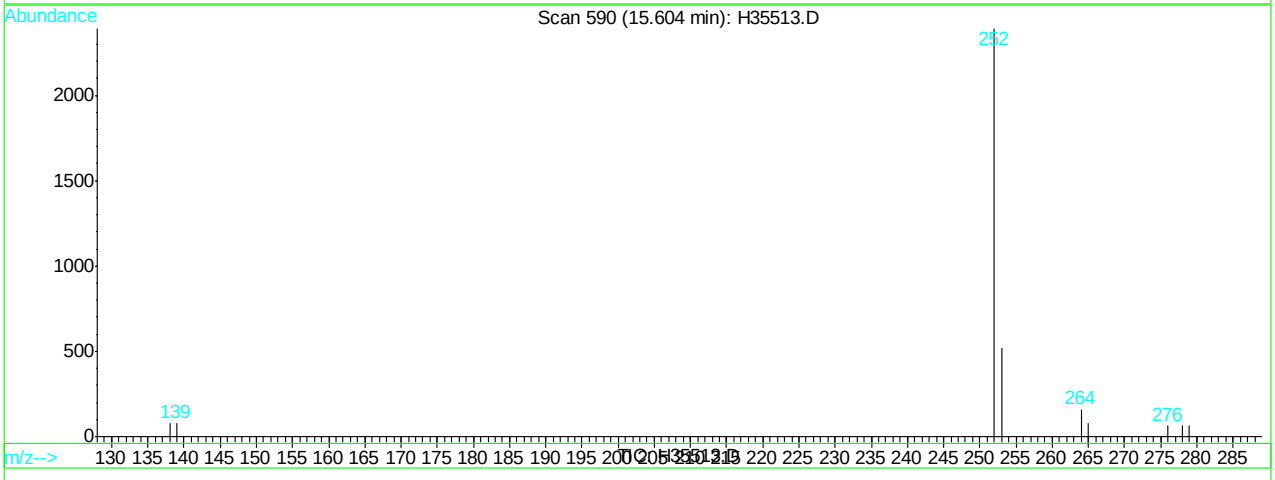
H35513.D H10229SP.M Thu Oct 22 13:28:27 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.60min 2.87ppb m

response 6902

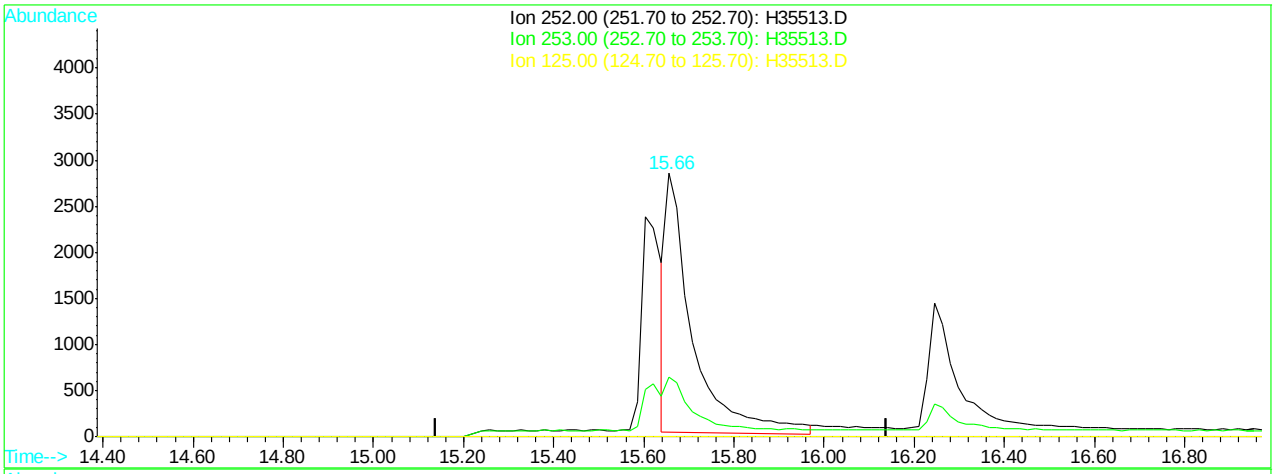
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	21.58
125.00	0.00	0.00
0.00	0.00	0.00

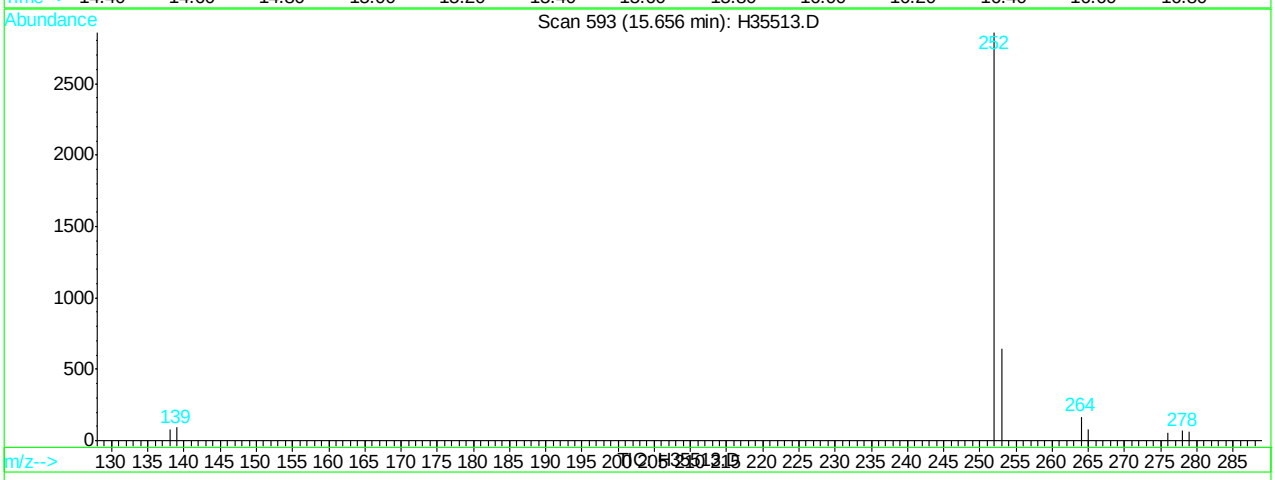
H35513.D H10229SP.M Thu Oct 22 13:28:31 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35513.D Vial: 2
Acq On : 21 Oct 2009 11:02 am Operator: sheilac
Sample : icc1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:44 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.66min 3.47ppb m

response 11509

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	22.46
125.00	0.00	0.00
0.00	0.00	0.00

H35513.D H10229SP.M Thu Oct 22 13:28:33 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35514.D Vial: 3
Acq On : 21 Oct 2009 11:31 am Operator: sheilac
Sample : ic1918-1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:45 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 13:13:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	78298	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	76607	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	62834	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	83309	4.00	ppb	0.00
21) Chrysene-d12	13.89	240	36240	4.00	ppb	0.02
26) Perylene-d12	16.35	264	8919	4.00	ppb	0.04
System Monitoring Compounds						
5) Nitrobenzene-d5	6.58	82	19091	3.07	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery	=	61.40%	
10) 2-Fluorobiphenyl	8.87	172	202432	5.34	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	106.80%	
16) 2,4,6-Tribromophenol	10.40	330	28422	6.58	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	=	65.80%	
23) Terphenyl-d14	12.66	244	35516	7.80	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	156.00%	

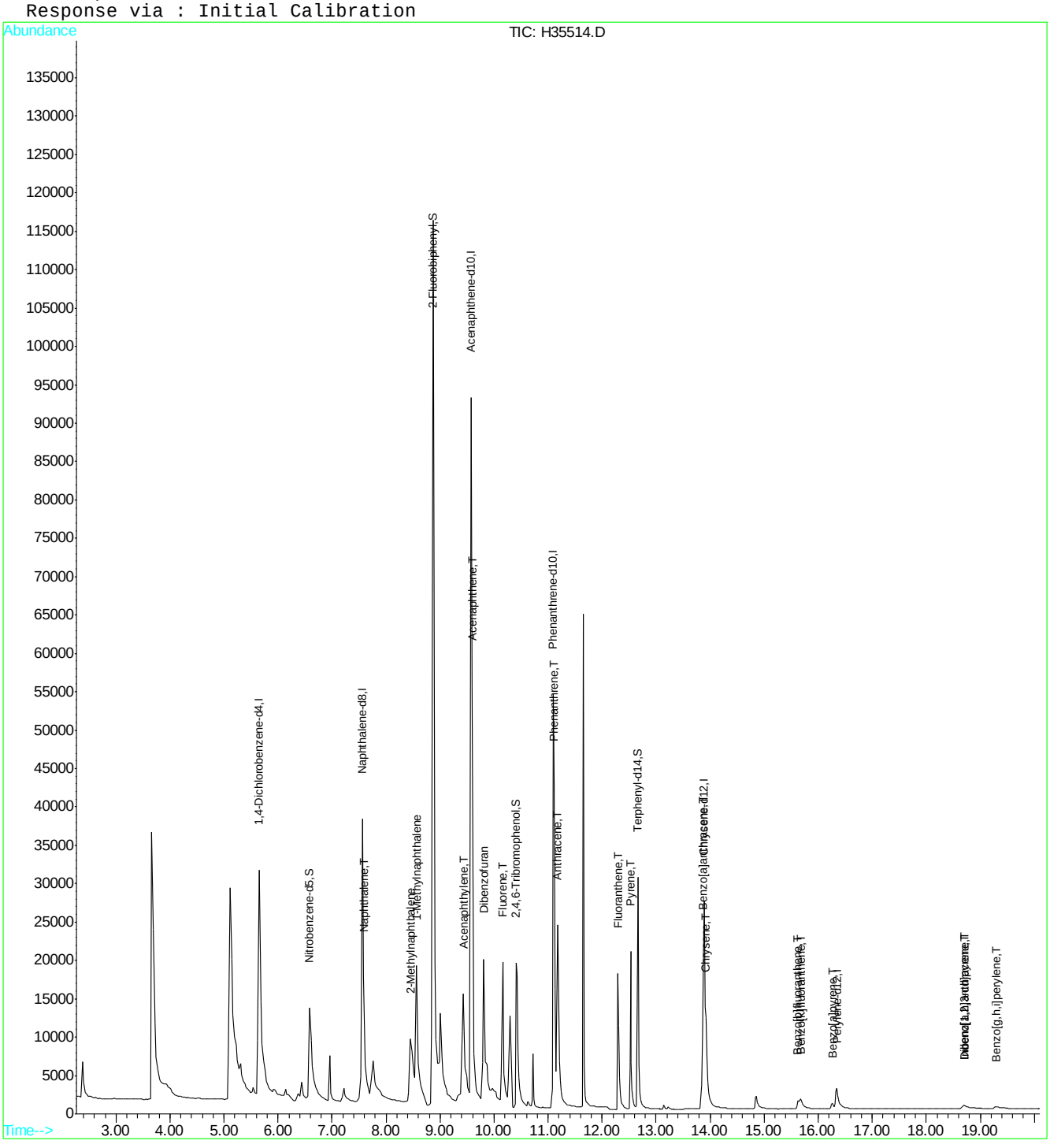
Target Compounds							Qvalue
6) Naphthalene	7.59	128	21719	0.70	ppb		99
7) 2-Methylnaphthalene	8.45	142	21988	0.83	ppb	#	95
8) 1-Methylnaphthalene	8.56	142	36642	0.96	ppb	#	91
11) Acenaphthylene	9.44	152	28383	0.58	ppb	#	89
12) Acenaphthene	9.60	153	35398	0.94	ppb		78
13) Dibenzofuran	9.81	168	34477	1.09	ppb		98
14) Fluorene	10.16	166	17993	0.76	ppb	#	50
18) Phenanthrene	11.11	178	36723	0.82	ppb		90
19) Anthracene	11.17	178	41209	0.87	ppb	#	87
20) Fluoranthene	12.30	202	38438	0.85	ppb	#	90
22) Pyrene	12.53	202	31371	1.53	ppb		96
24) Benzo[a]anthracene	13.87	228	13025	0.98	ppb		95
25) Chrysene	13.92	228	13065	0.99	ppb		96
27) Benzo[b]fluoranthene	15.62	252	2127m	0.61	ppb		
28) Benzo[k]fluoranthene	15.67	252	4846m	1.01	ppb		
29) Benzo[a]pyrene	16.26	252	3104	1.08	ppb		97
30) Indeno[1,2,3-cd]pyrene	18.70	276	1689	1.73	ppb		97
31) Dibenz[a,h]anthracene	18.70	278	1082	1.78	ppb		97
32) Benzo[g,h,i]perylene	19.29	276	1606	2.27	ppb		97

(#) = qualifier out of range (m) = manual integration
H35514.D H10229SP.M Thu Oct 22 13:28:42 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35514.D Vial: 3
Acq On : 21 Oct 2009 11:31 am Operator: sheilac
Sample : ic1918-1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:45 2009 Quant Results File: H10219SP.RES

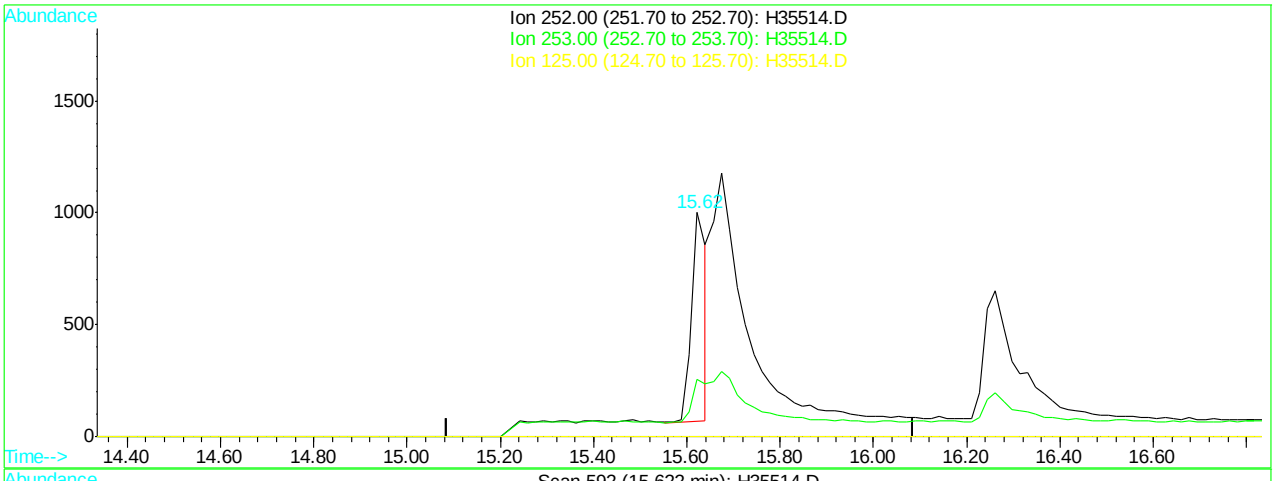
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

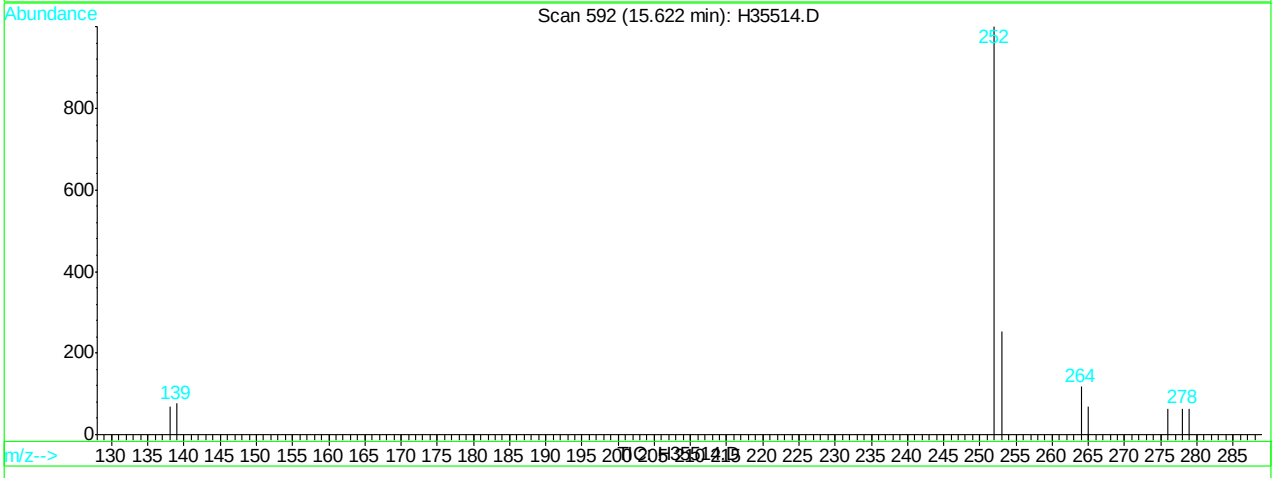


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35514.D Vial: 3
Acq On : 21 Oct 2009 11:31 am Operator: sheilac
Sample : ic1918-1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:45 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.62min 0.61ppb m

response 2127

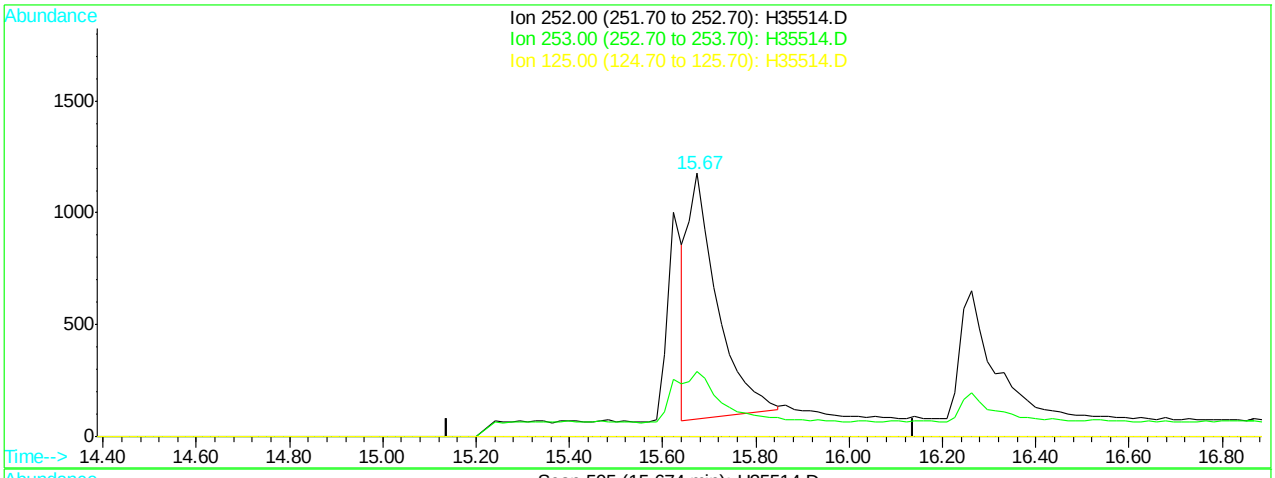
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	25.37
125.00	0.00	0.00
0.00	0.00	0.00

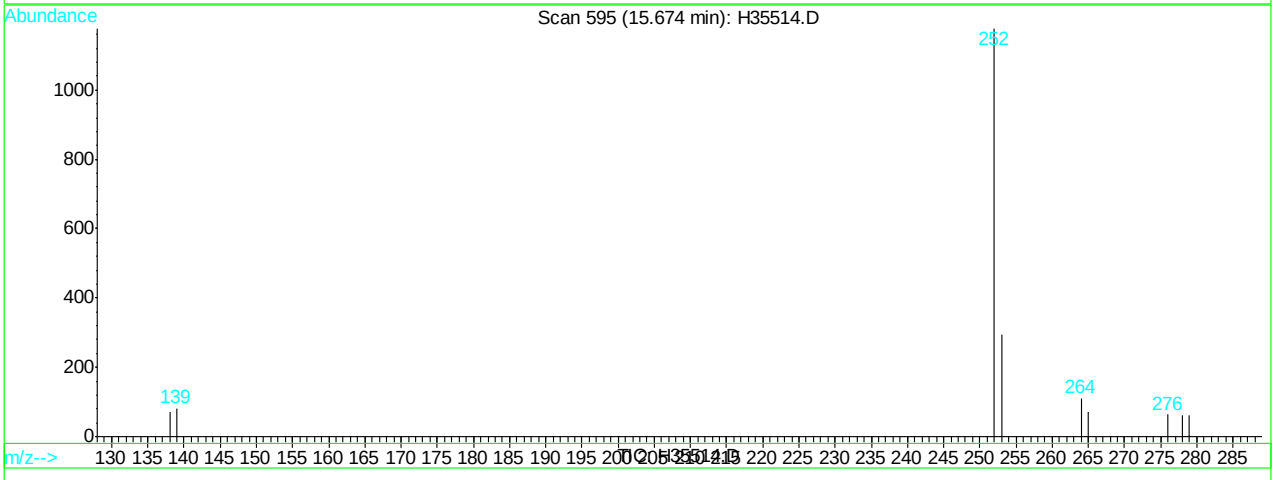
H35514.D H10229SP.M Thu Oct 22 13:29:01 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35514.D Vial: 3
Acq On : 21 Oct 2009 11:31 am Operator: sheilac
Sample : ic1918-1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:45 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.67min 1.01ppb m

response 4846

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	24.89
125.00	0.00	0.00
0.00	0.00	0.00

H35514.D H10229SP.M Thu Oct 22 13:29:05 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 13:13:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	76671	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	74580	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	51002	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	75853	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	25379	4.00	ppb	0.02
26) Perylene-d12	16.37	264	5328	4.00	ppb	0.05

System Monitoring Compounds

5) Nitrobenzene-d5	6.78	82	1453m	0.24	ppb	0.23
Spiked Amount 5.000	Range 17 - 131		Recovery	=	4.80%#	
10) 2-Fluorobiphenyl	8.90	172	16002	0.52	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery	=	10.40%#	
16) 2,4,6-Tribromophenol	10.45	330	1298m	0.33	ppb	0.05
Spiked Amount 10.000	Range 10 - 123		Recovery	=	3.30%#	
23) Terphenyl-d14	12.68	244	2800	0.88	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery	=	17.60%	

Target Compounds

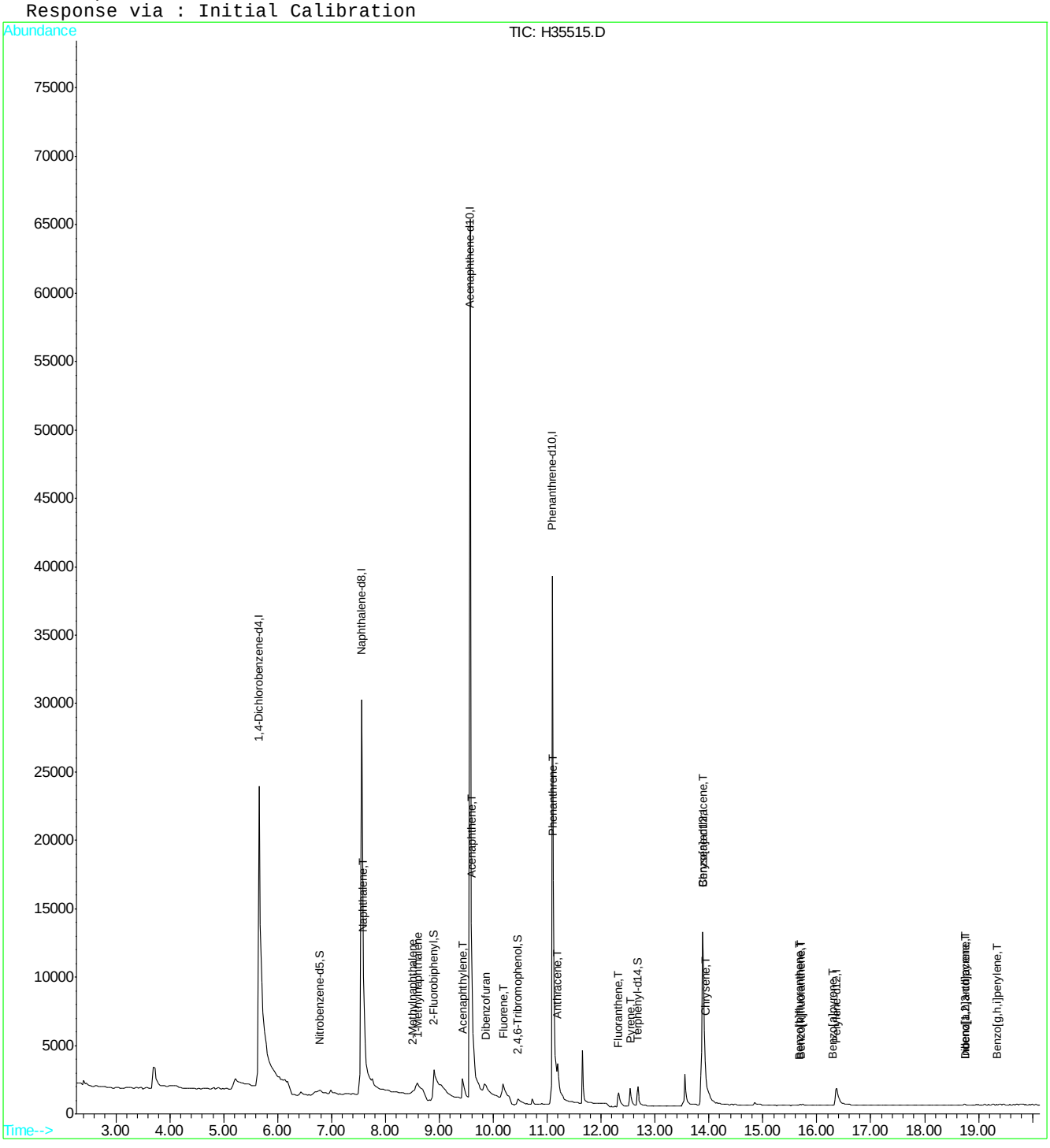
							Qvalue
6) Naphthalene	7.59	128	2448	0.08	ppb		96
7) 2-Methylnaphthalene	8.51	142	580m	0.02	ppb		
8) 1-Methylnaphthalene	8.59	142	2546m	0.07	ppb		
11) Acenaphthylene	9.43	152	3242	0.08	ppb		99
12) Acenaphthene	9.60	153	2712	0.09	ppb	#	67
13) Dibenzofuran	9.86	168	3150	0.12	ppb		96
14) Fluorene	10.19	166	1368	0.07	ppb	#	59
18) Phenanthrene	11.11	178	3940m	0.10	ppb		
19) Anthracene	11.19	178	4332	0.10	ppb		94
20) Fluoranthene	12.33	202	3295	0.08	ppb		97
22) Pyrene	12.54	202	3422	0.24	ppb		96
24) Benzo[a]anthracene	13.88	228	771	0.08	ppb	#	90
25) Chrysene	13.94	228	1233m	0.13	ppb		
27) Benzo[b]fluoranthene	15.67	252	114m	0.05	ppb		
28) Benzo[k]fluoranthene	15.71	252	227m	0.08	ppb		
29) Benzo[a]pyrene	16.30	252	113	0.07	ppb	#	69
30) Indeno[1,2,3-cd]pyrene	18.75	276	58	0.10	ppb	#	59
31) Dibenz[a,h]anthracene	18.75	278	49	0.13	ppb	#	49
32) Benzo[g,h,i]perylene	19.34	276	62	0.15	ppb		96

(#) = qualifier out of range (m) = manual integration
H35515.D H10229SP.M Thu Oct 22 13:29:12 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: H10219SP.RES

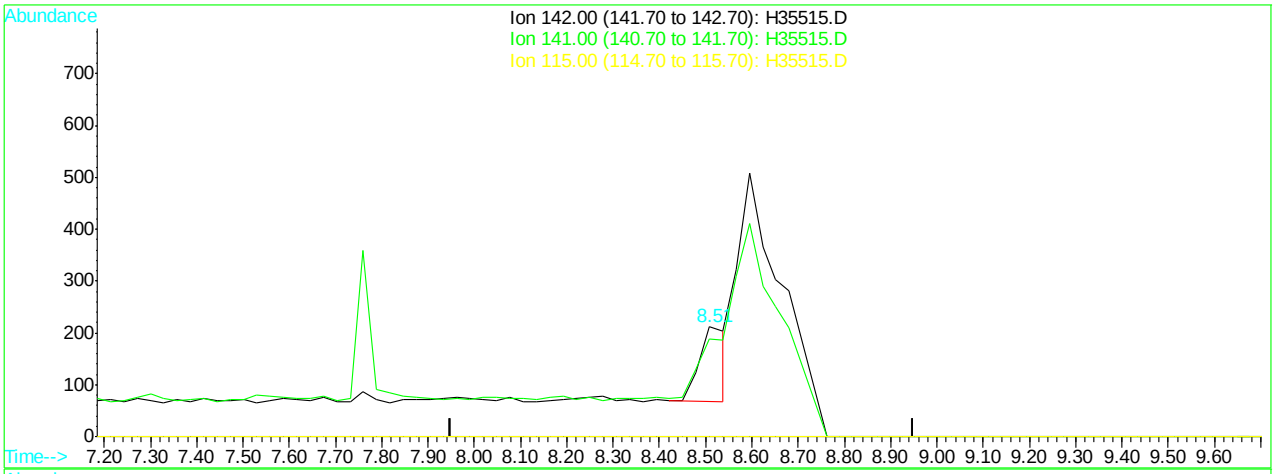
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

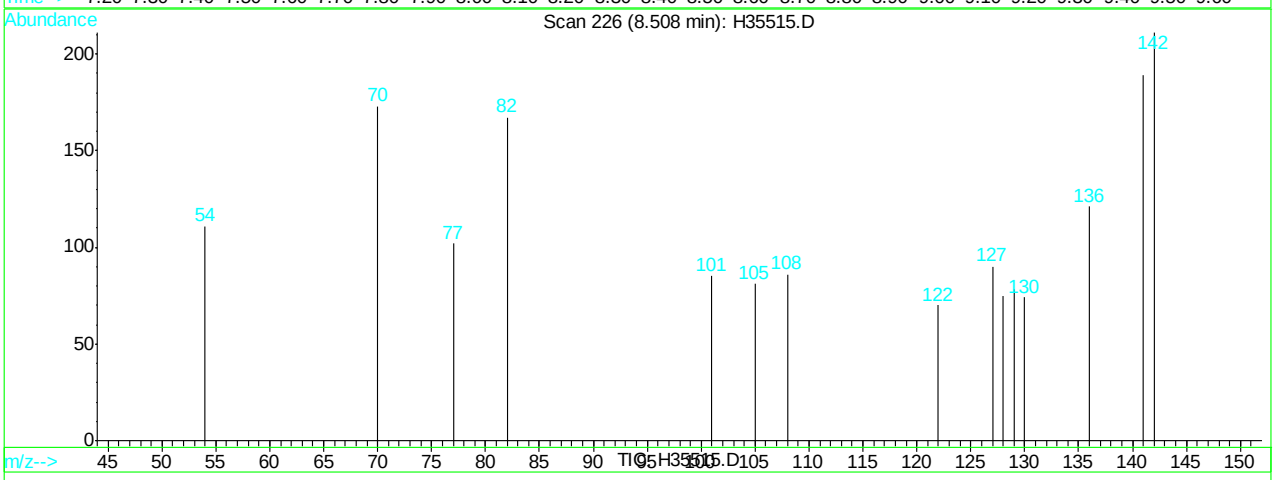


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.51min 0.02ppb m

response 580

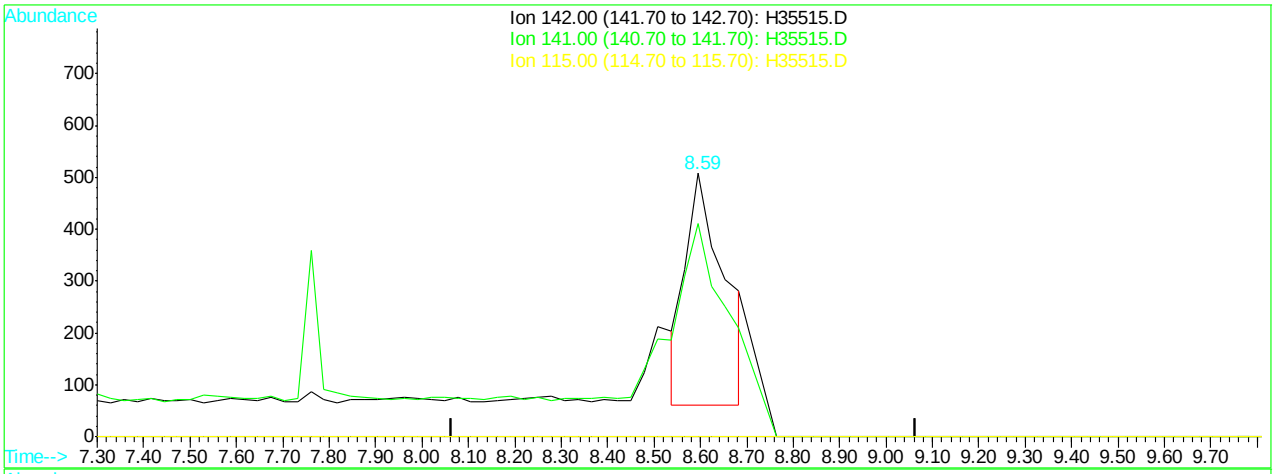
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	708.62#
115.00	0.00	0.00
0.00	0.00	0.00

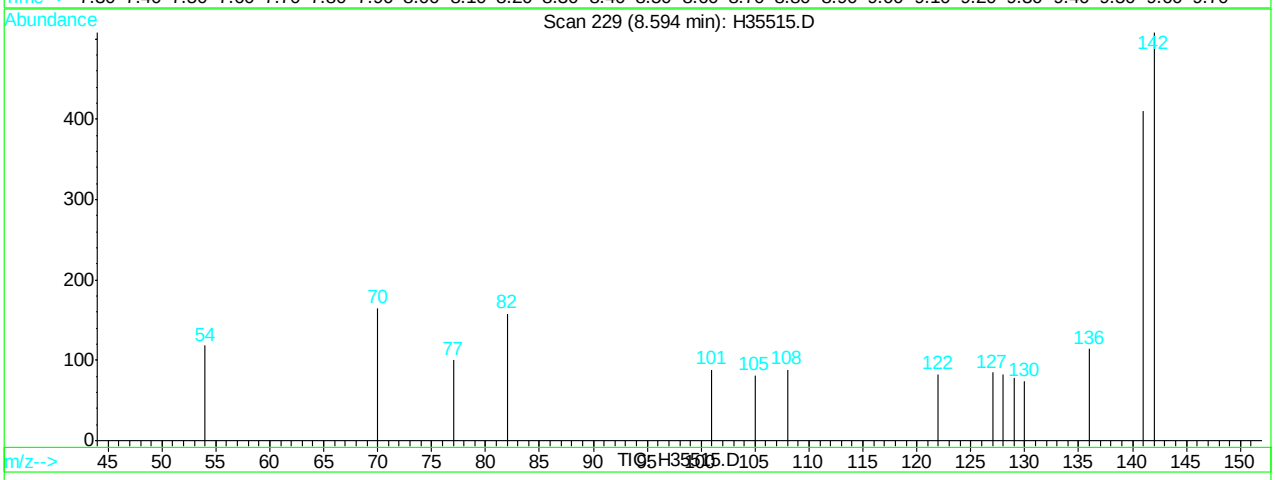
H35515.D H10229SP.M Thu Oct 22 13:29:35 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.59min 0.07ppb m

response 2546

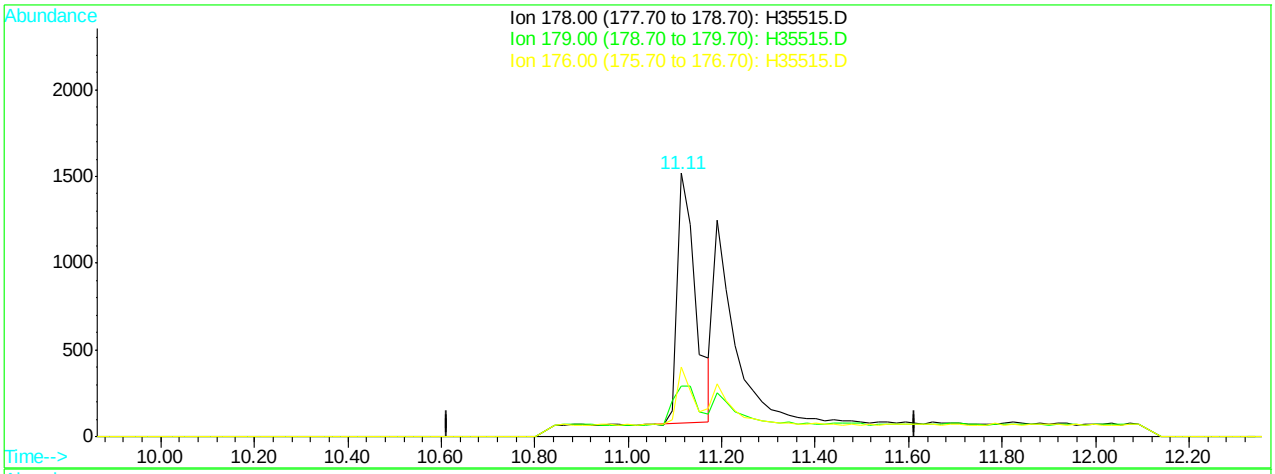
Ion	Exp%	Act%
142.00	100	100
141.00	81.20	161.43#
115.00	0.00	0.00
0.00	0.00	0.00

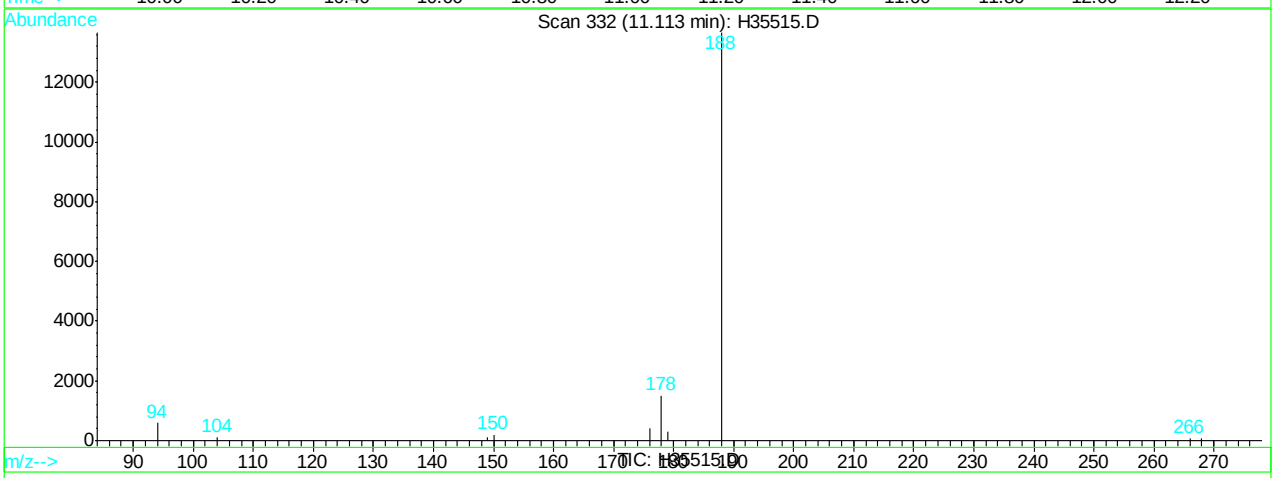
H35515.D H10229SP.M Thu Oct 22 13:29:39 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 0.10ppb m

response 3940

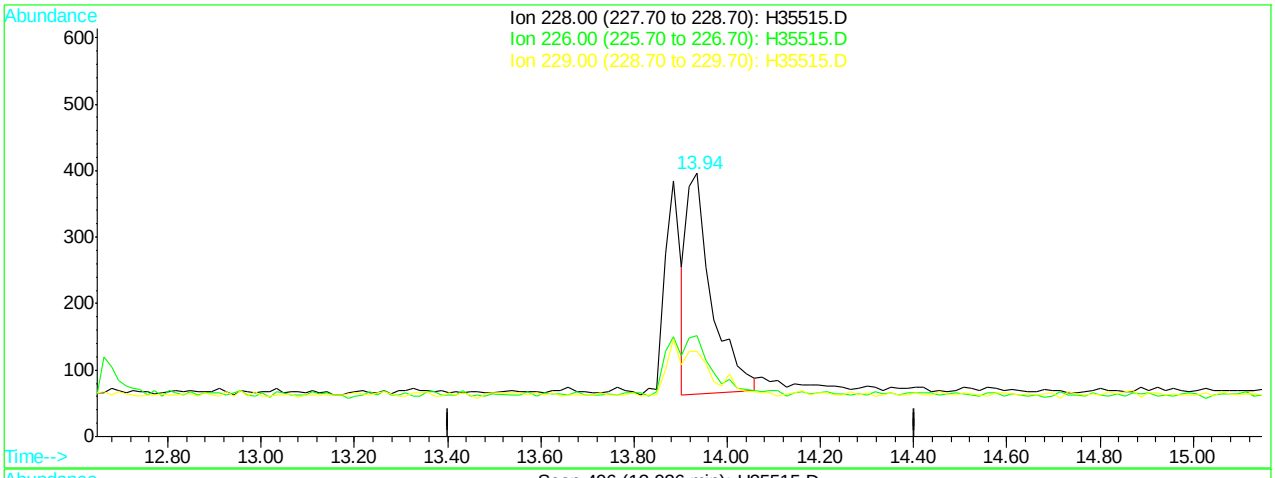
Ion	Exp%	Act%
178.00	100	100
179.00	17.80	19.04
176.00	17.10	26.61#
0.00	0.00	0.00

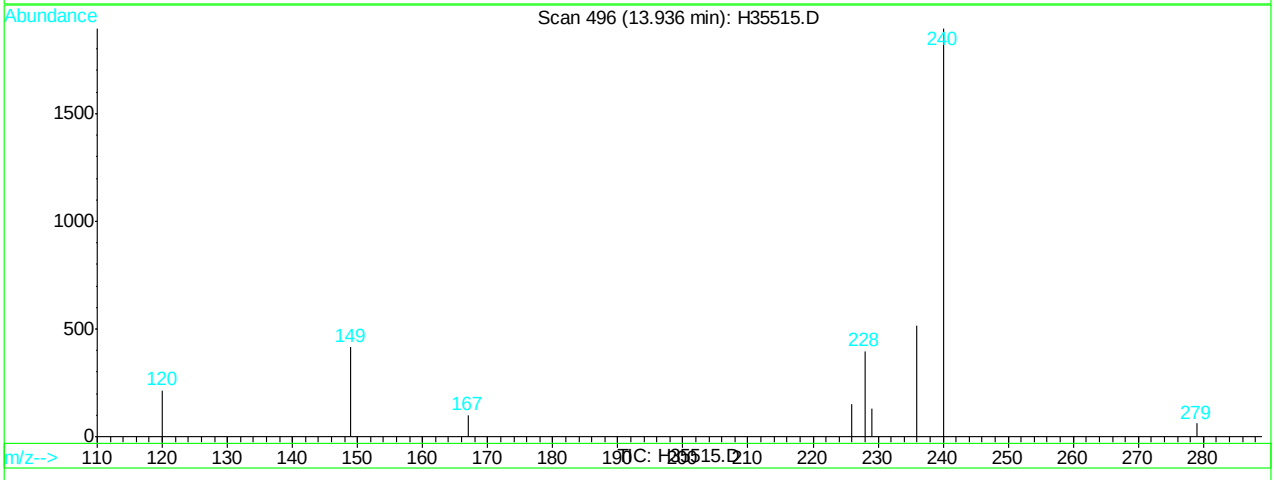
H35515.D H10229SP.M Thu Oct 22 13:29:45 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 0.13ppb m

response 1233

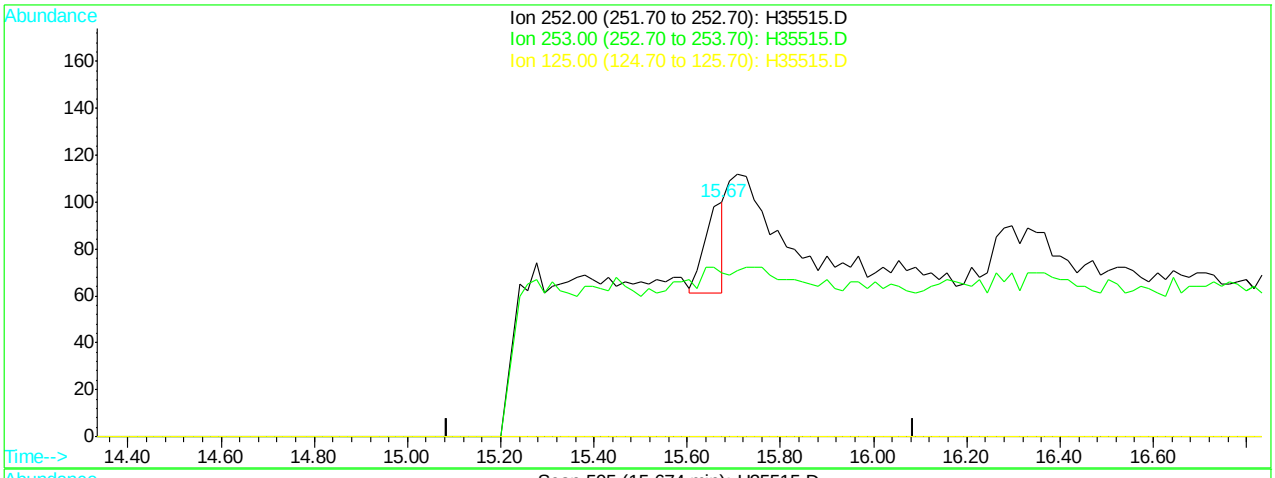
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	38.38
229.00	19.10	32.32#
0.00	0.00	0.00

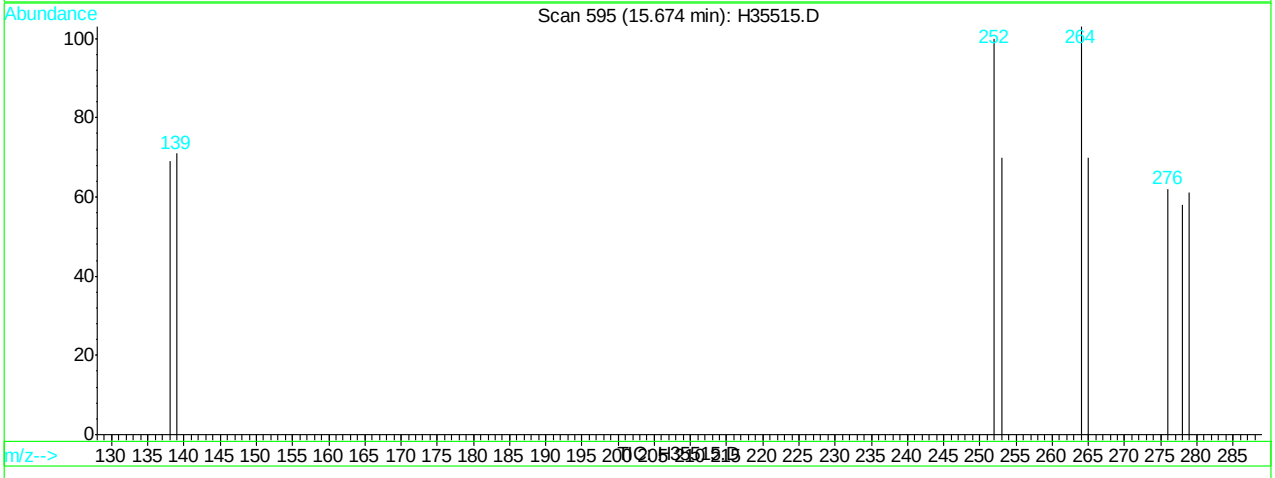
H35515.D H10229SP.M Thu Oct 22 13:29:49 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.67min 0.05ppb m

response 114

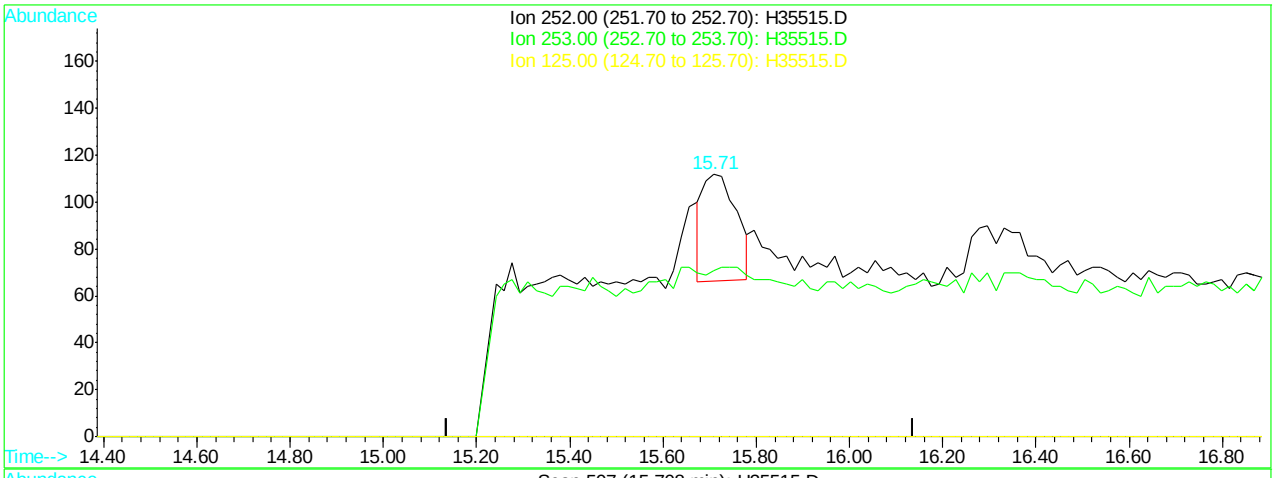
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	70.00#
125.00	0.00	0.00
0.00	0.00	0.00

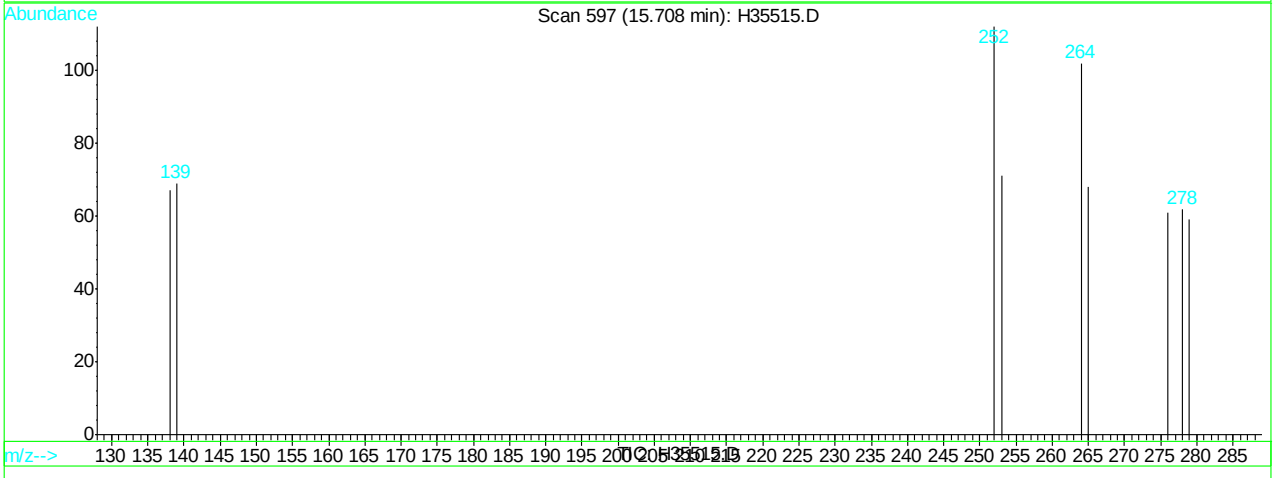
H35515.D H10229SP.M Thu Oct 22 13:29:52 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.71min 0.08ppb m

response 227

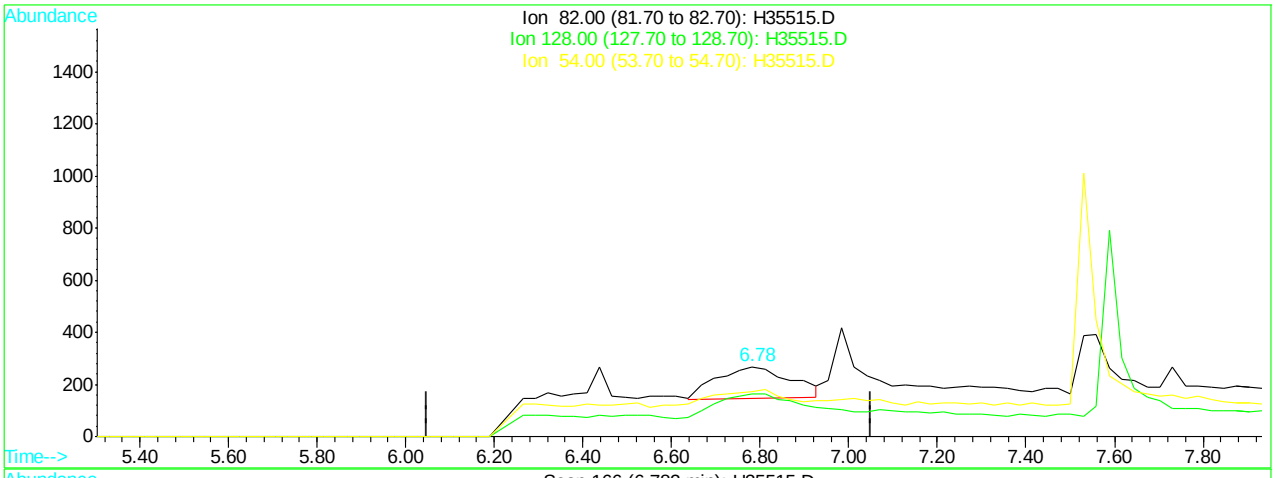
Ion	Exp%	Act%
252.00	100	100
253.00	22.80	63.39#
125.00	0.00	0.00
0.00	0.00	0.00

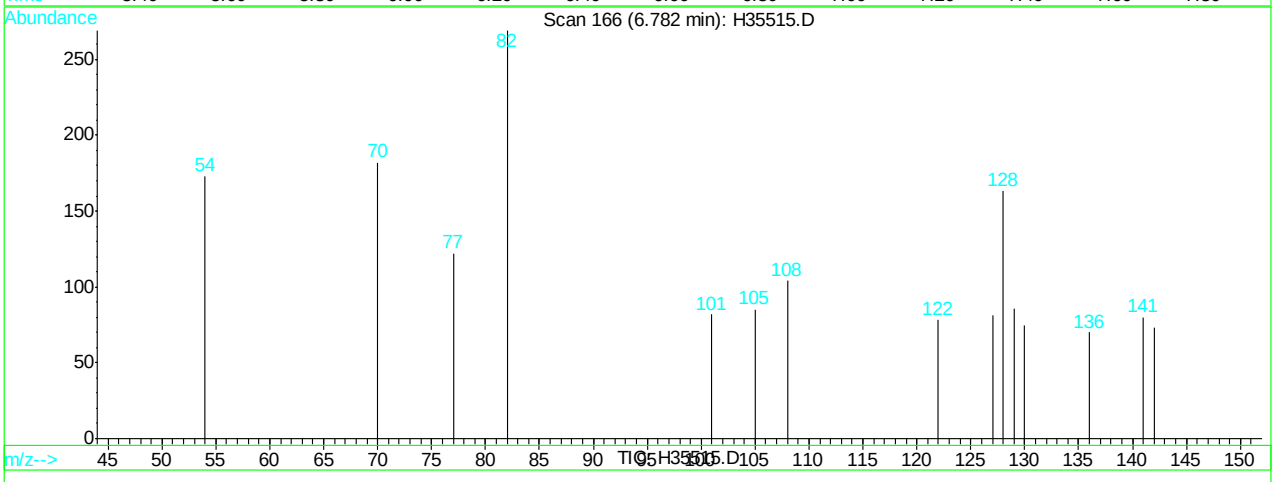
H35515.D H10229SP.M Thu Oct 22 13:29:56 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35515.D Vial: 4
Acq On : 21 Oct 2009 12:01 pm Operator: sheilac
Sample : ic1918-0.1 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(5) Nitrobenzene-d5 (S)

6.78min 0.24ppb m

response 1453

Ion	Exp%	Act%
82.00	100	100
128.00	13.90	60.59#
54.00	49.20	64.31#
0.00	0.00	0.00

H35515.D H10229SP.M Thu Oct 22 13:30:42 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 13:13:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	75841	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	71073	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	52298	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	78407	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	34140	4.00	ppb	0.02
26) Perylene-d12	16.35	264	8494	4.00	ppb	0.04

System Monitoring Compounds

5) Nitrobenzene-d5	6.70	82	1514m	0.26	ppb	0.15
Spiked Amount 5.000	Range 17 - 131		Recovery	=	5.20%#	
10) 2-Fluorobiphenyl	8.90	172	26852	0.85	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery	=	17.00%	
16) 2,4,6-Tribromophenol	10.44	330	4573	1.13	ppb	0.03
Spiked Amount 10.000	Range 10 - 123		Recovery	=	11.30%	
23) Terphenyl-d14	12.68	244	5789	1.35	ppb	0.01
Spiked Amount 5.000	Range 10 - 160		Recovery	=	27.00%	

Target Compounds

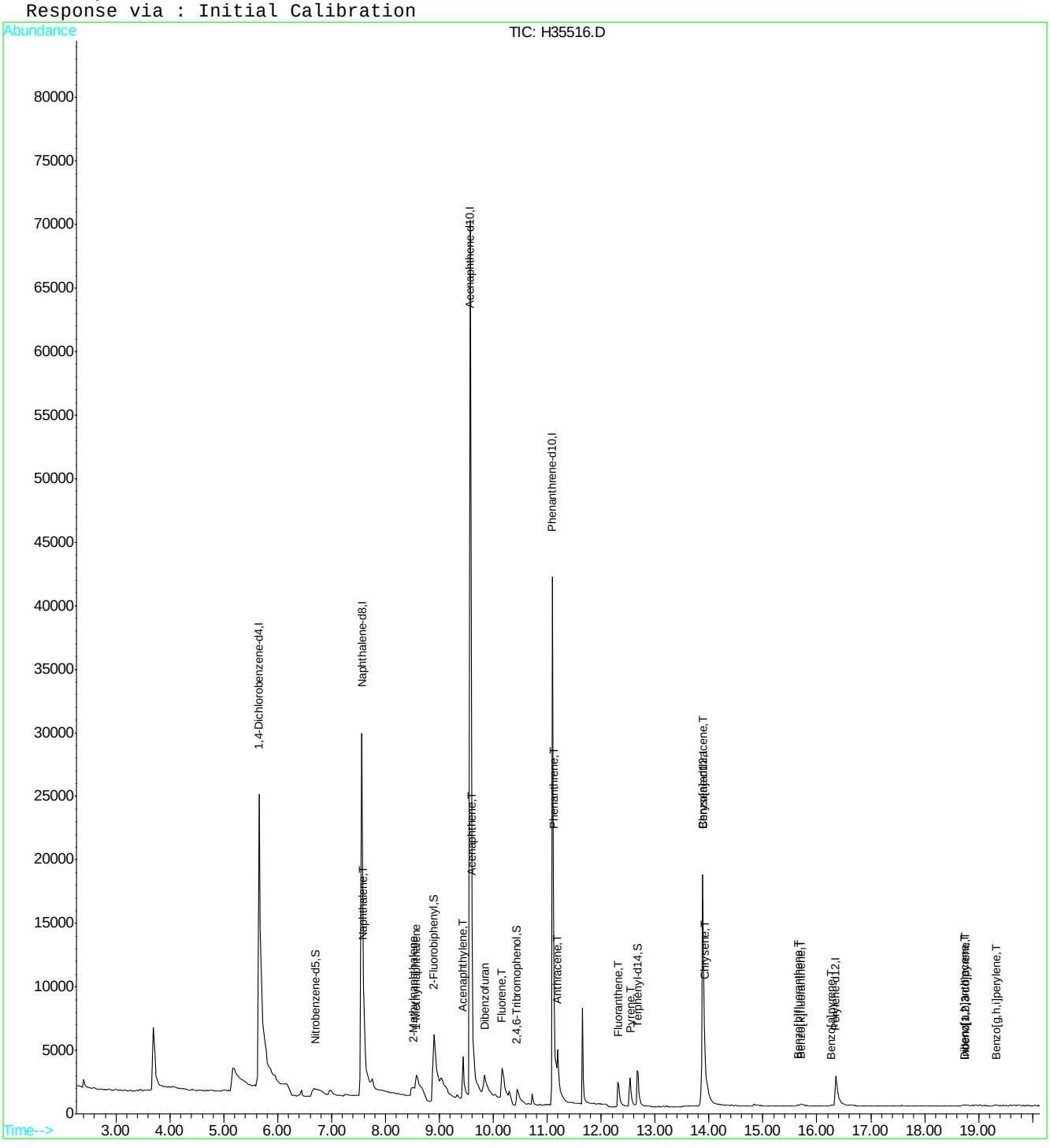
							Qvalue
6) Naphthalene	7.59	128	4091	0.14	ppb		97
7) 2-Methylnaphthalene	8.51	142	1629m	0.07	ppb		
8) 1-Methylnaphthalene	8.57	142	3687m	0.10	ppb		
11) Acenaphthylene	9.44	152	6142	0.15	ppb		93
12) Acenaphthene	9.60	153	5085	0.16	ppb	#	71
13) Dibenzofuran	9.84	168	5578	0.21	ppb		97
14) Fluorene	10.16	166	3269	0.17	ppb		75
18) Phenanthrene	11.11	178	6332m	0.15	ppb		
19) Anthracene	11.19	178	7532	0.17	ppb		97
20) Fluoranthene	12.31	202	5471m	0.13	ppb		
22) Pyrene	12.54	202	6060	0.31	ppb		95
24) Benzo[a]anthracene	13.88	228	1640	0.13	ppb		90
25) Chrysene	13.92	228	2257m	0.18	ppb		
27) Benzo[b]fluoranthene	15.66	252	266m	0.08	ppb		
28) Benzo[k]fluoranthene	15.71	252	639m	0.14	ppb		
29) Benzo[a]pyrene	16.26	252	256	0.09	ppb		88
30) Indeno[1,2,3-cd]pyrene	18.75	276	228	0.24	ppb	#	77
31) Dibenz[a,h]anthracene	18.74	278	78	0.13	ppb	#	69
32) Benzo[g,h,i]perylene	19.32	276	181	0.27	ppb	#	81

(#) = qualifier out of range (m) = manual integration
H35516.D H10229SP.M Thu Oct 22 13:30:03 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: H10219SP.RES

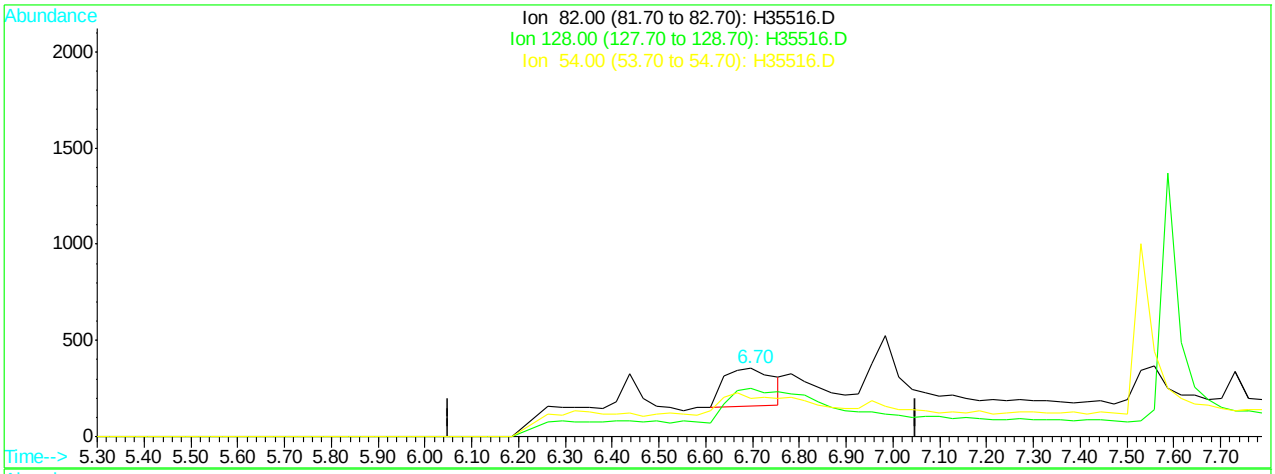
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

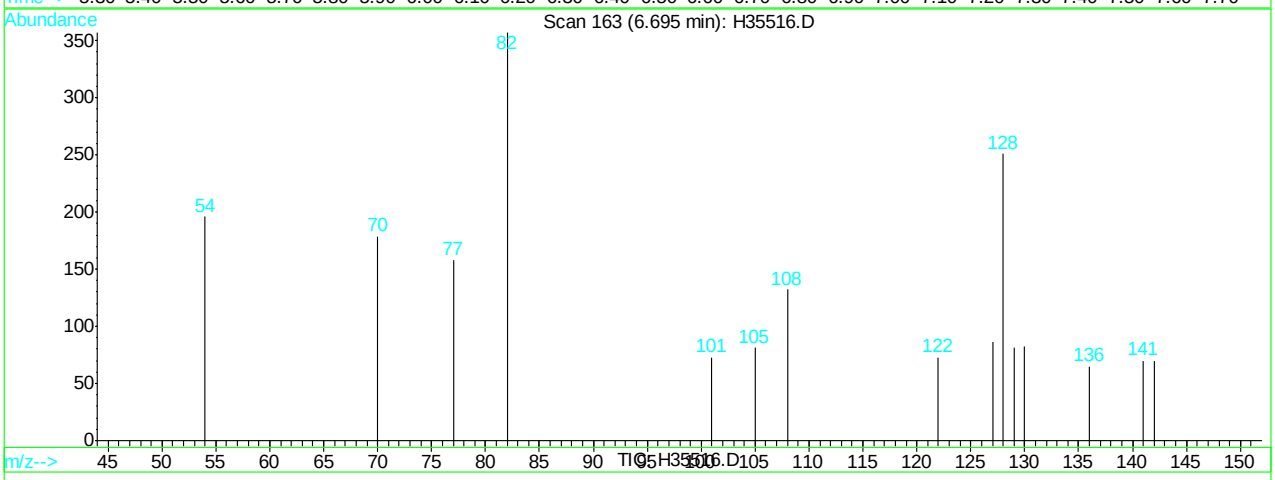


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(5) Nitrobenzene-d5 (S)

6.70min 0.26ppb m

response 1514

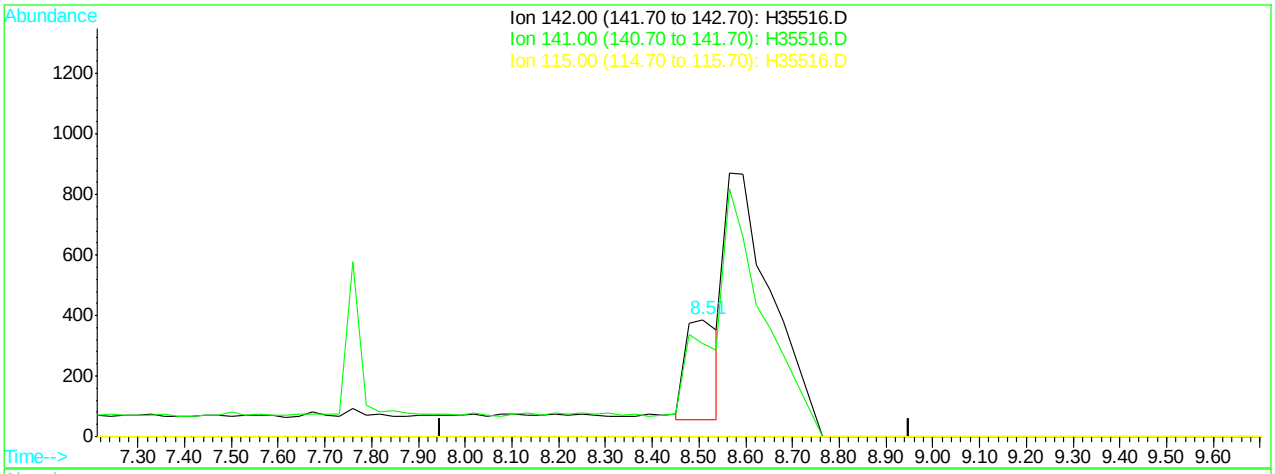
Ion	Exp%	Act%
82.00	100	100
128.00	13.90	70.31#
54.00	49.20	54.90
0.00	0.00	0.00

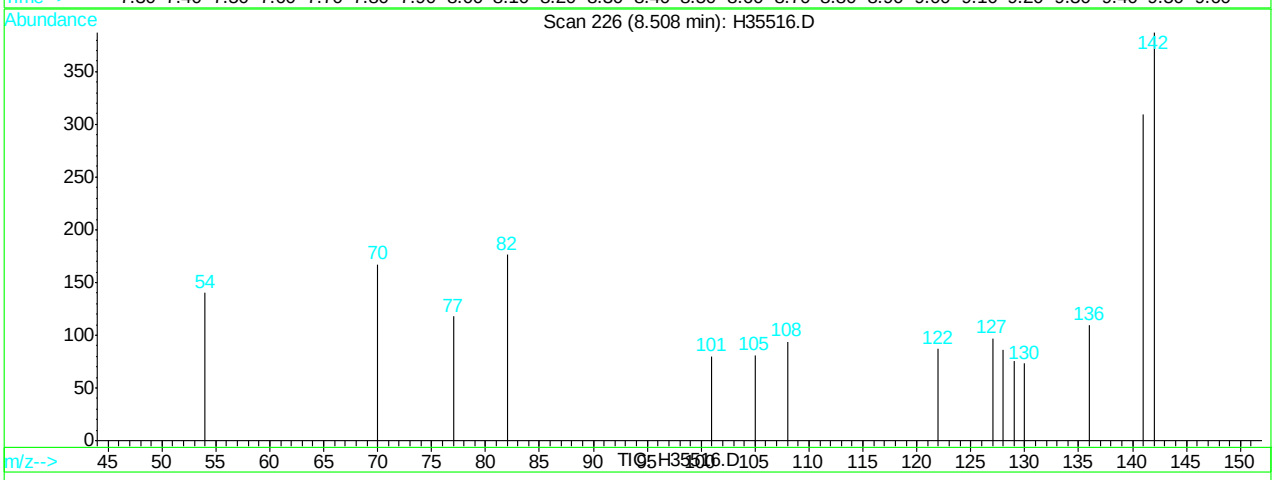
H35516.D H10229SP.M Thu Oct 22 13:30:55 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.51min 0.07ppb m

response 1629

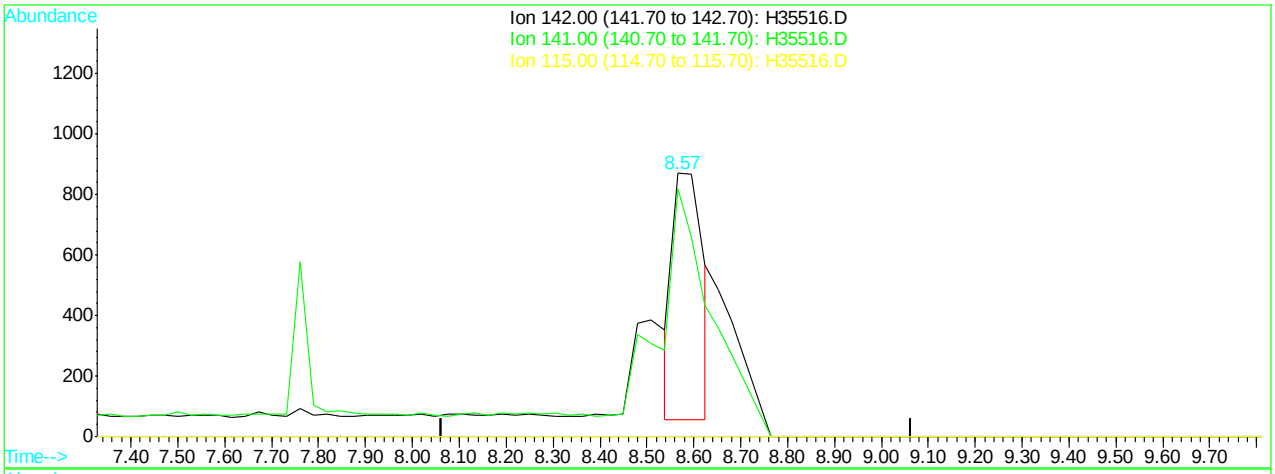
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	442.79#
115.00	0.00	0.00
0.00	0.00	0.00

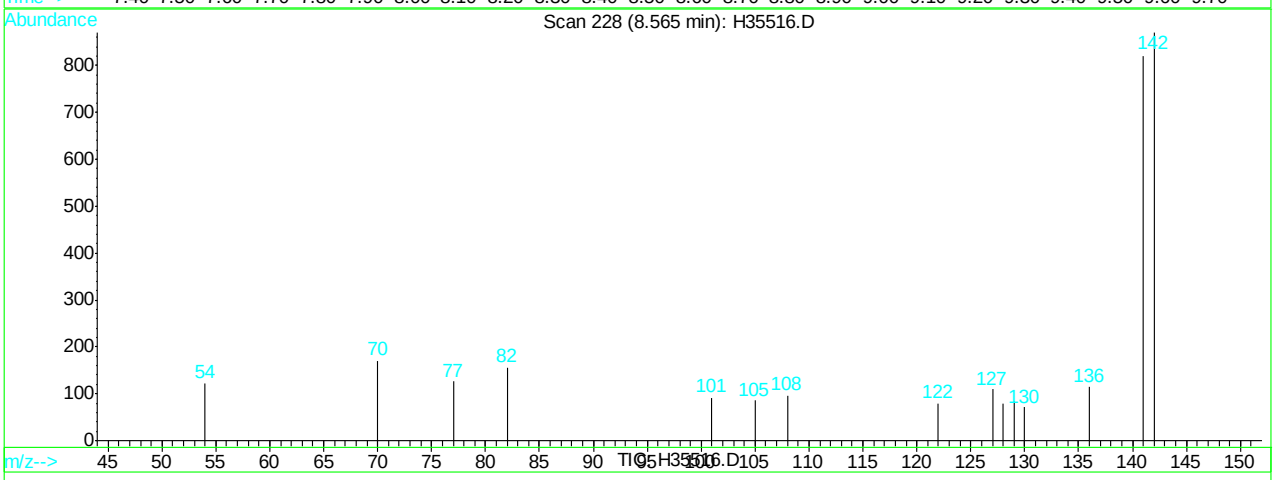
H35516.D H10229SP.M Thu Oct 22 13:31:00 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.57min 0.10ppb m

response 3687

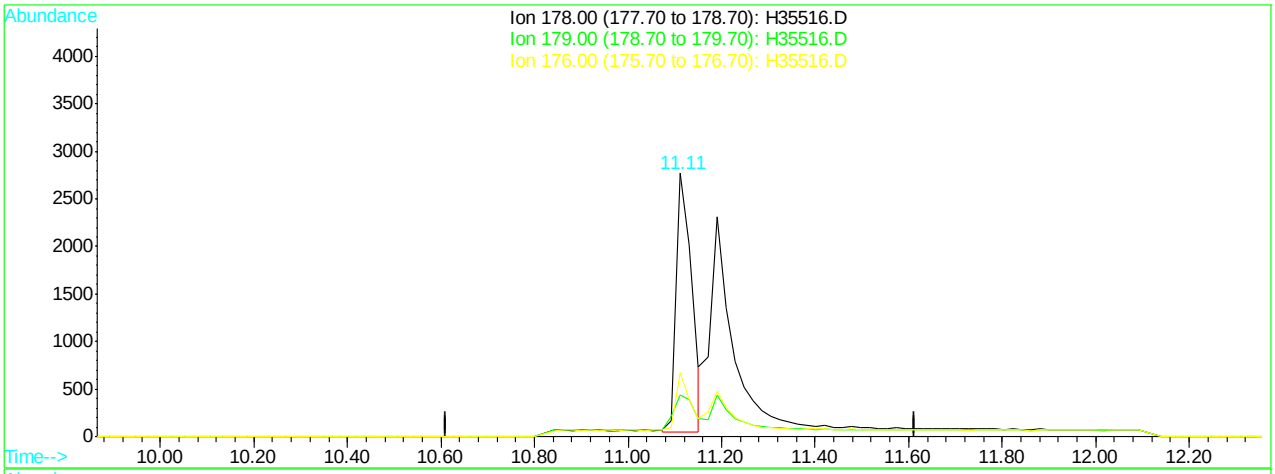
Ion	Exp%	Act%
142.00	100	100
141.00	81.20	195.63#
115.00	0.00	0.00
0.00	0.00	0.00

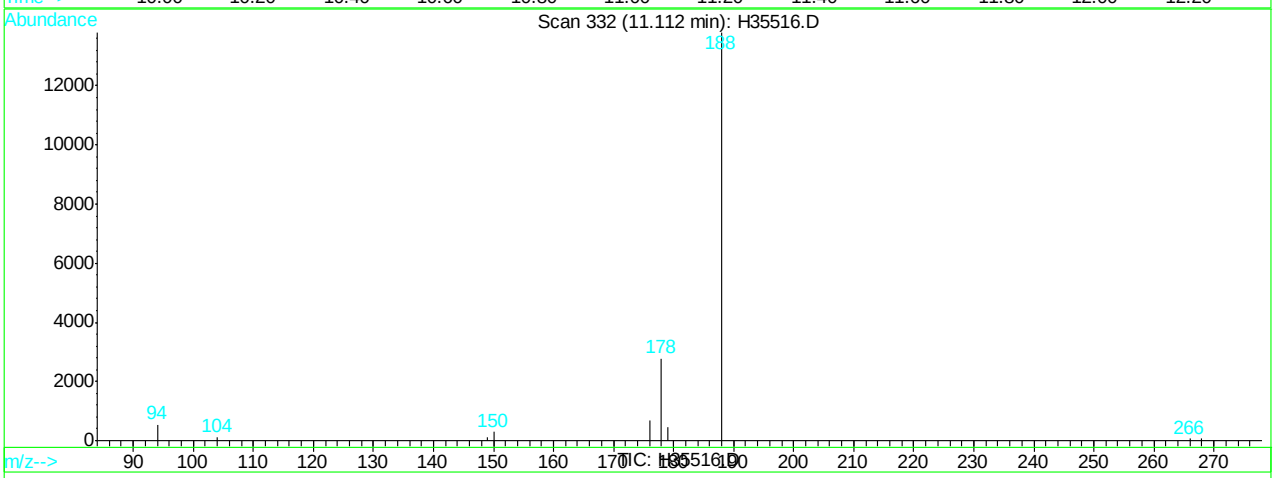
H35516.D H10229SP.M Thu Oct 22 13:31:03 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 0.15ppb m

response 6332

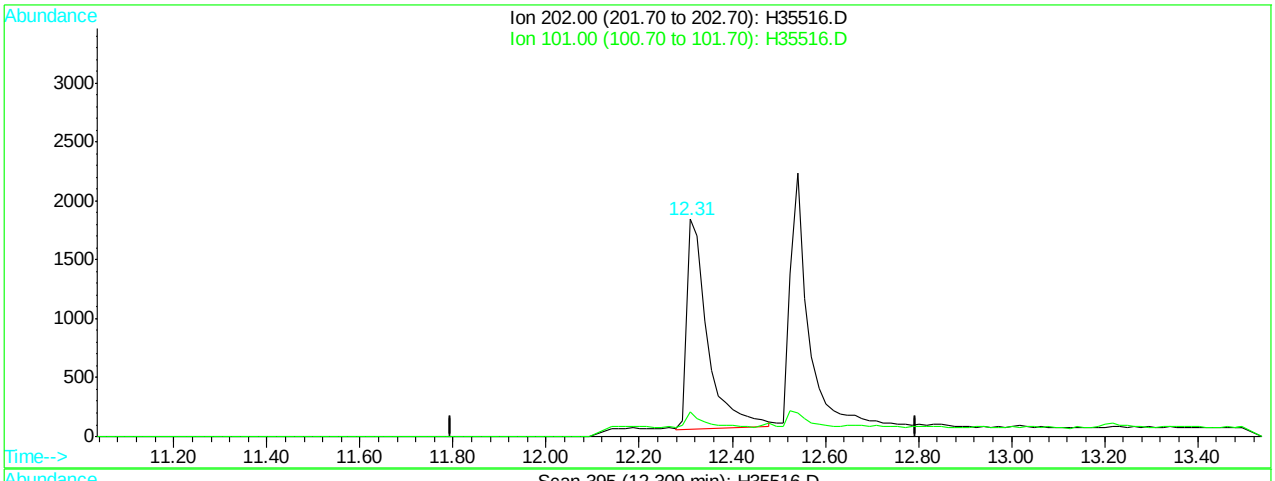
Ion	Exp%	Act%
178.00	100	100
179.00	17.80	15.81
176.00	17.10	24.40#
0.00	0.00	0.00

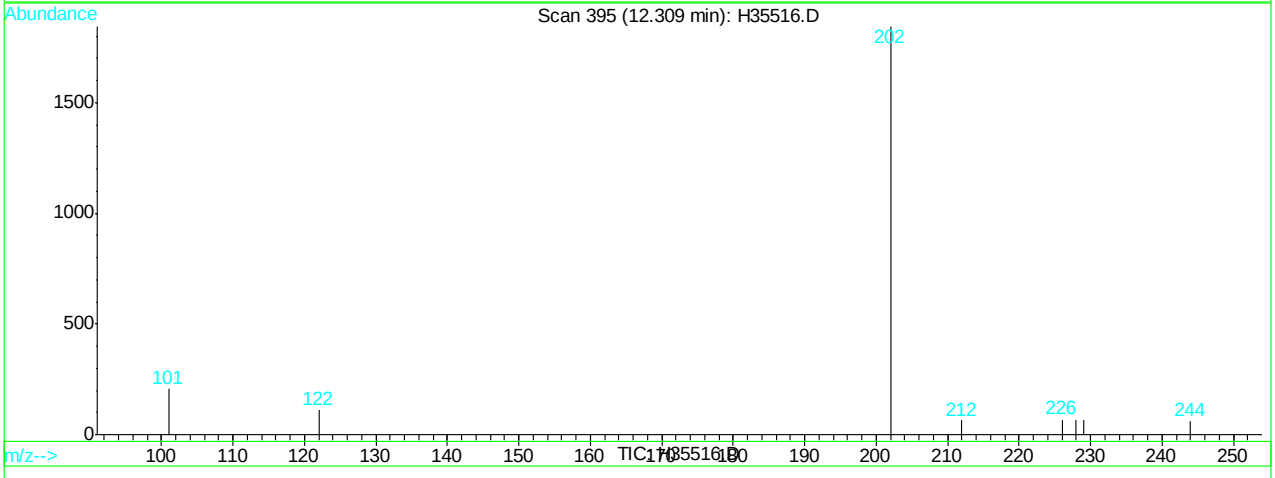
H35516.D H10229SP.M Thu Oct 22 13:31:10 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(20) Fluoranthene (T)

12.31min 0.13ppb m

response 5471

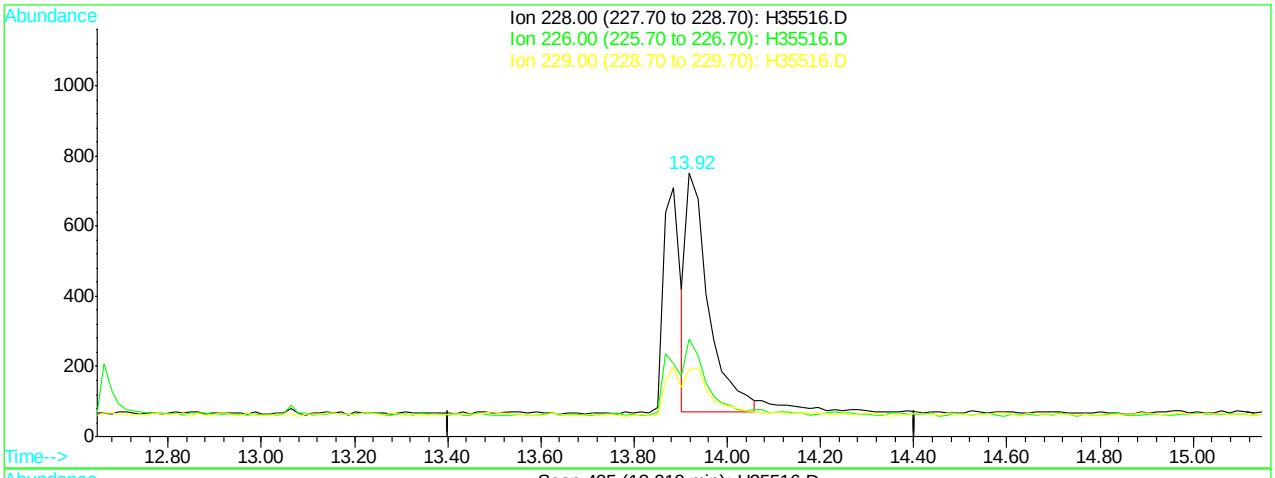
Ion	Exp%	Act%
202.00	100	100
101.00	4.10	11.18#
0.00	0.00	0.00
0.00	0.00	0.00

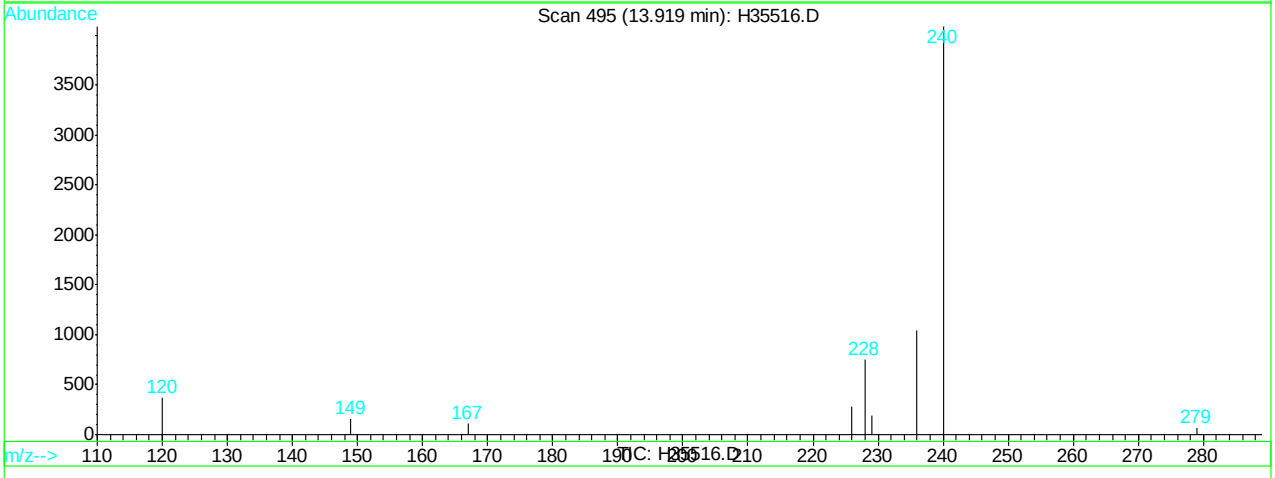
H35516.D H10229SP.M Thu Oct 22 13:31:14 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 0.18ppb m

response 2257

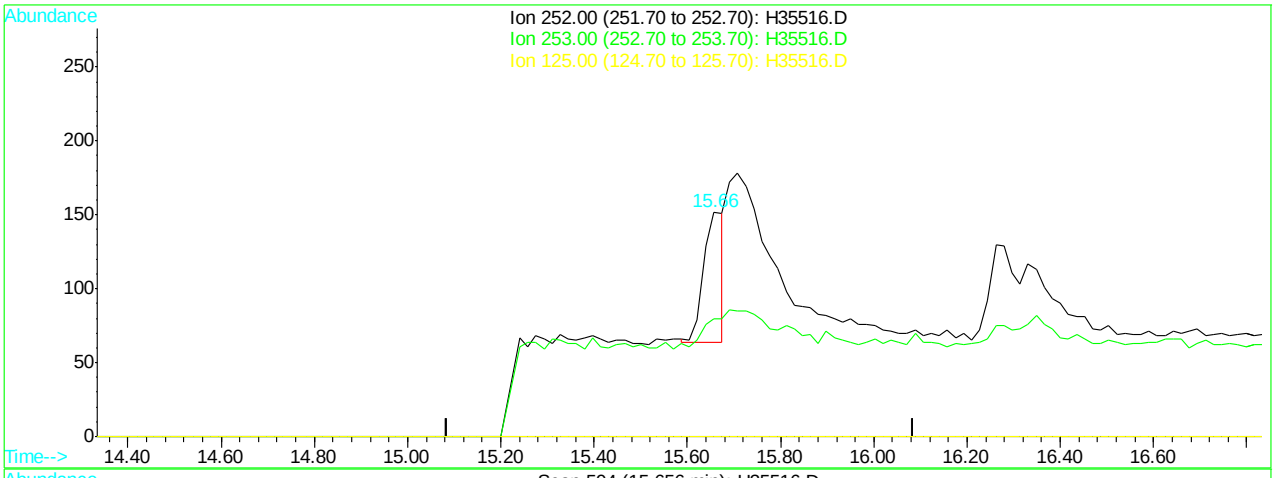
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	36.88
229.00	19.10	25.70#
0.00	0.00	0.00

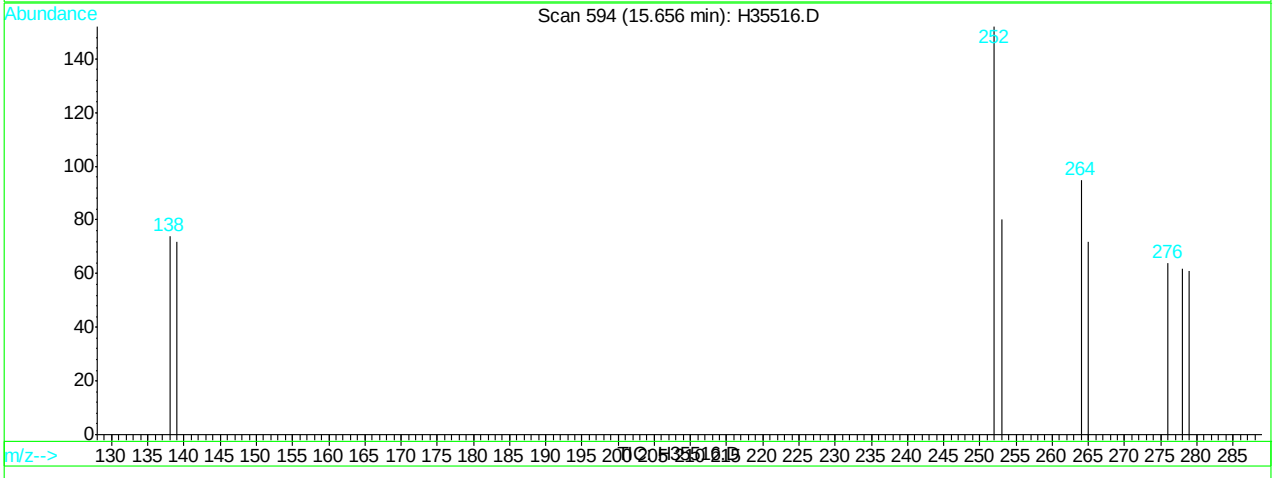
H35516.D H10229SP.M Thu Oct 22 13:31:18 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.66min 0.08ppb m

response 266

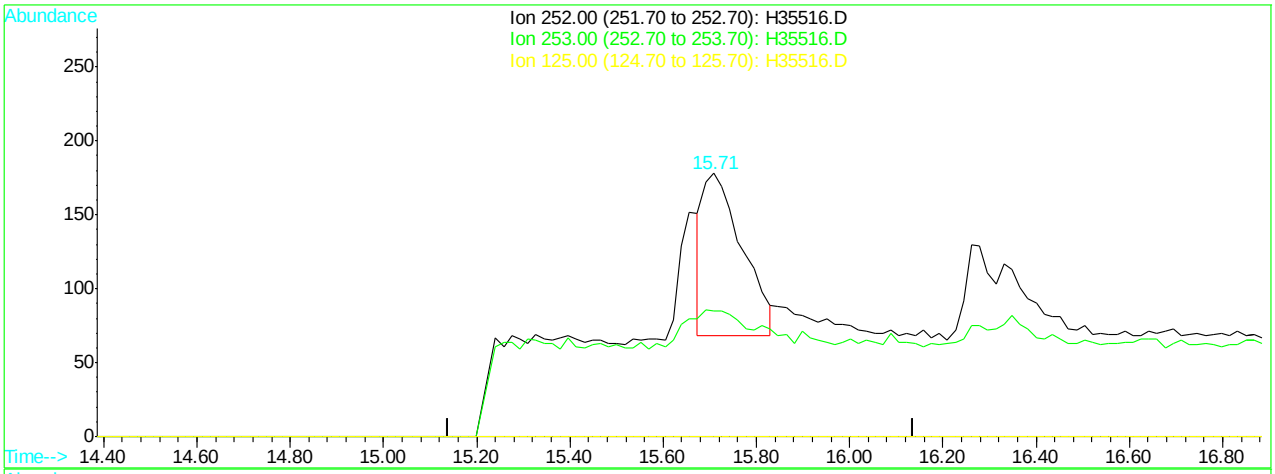
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	52.63#
125.00	0.00	0.00
0.00	0.00	0.00

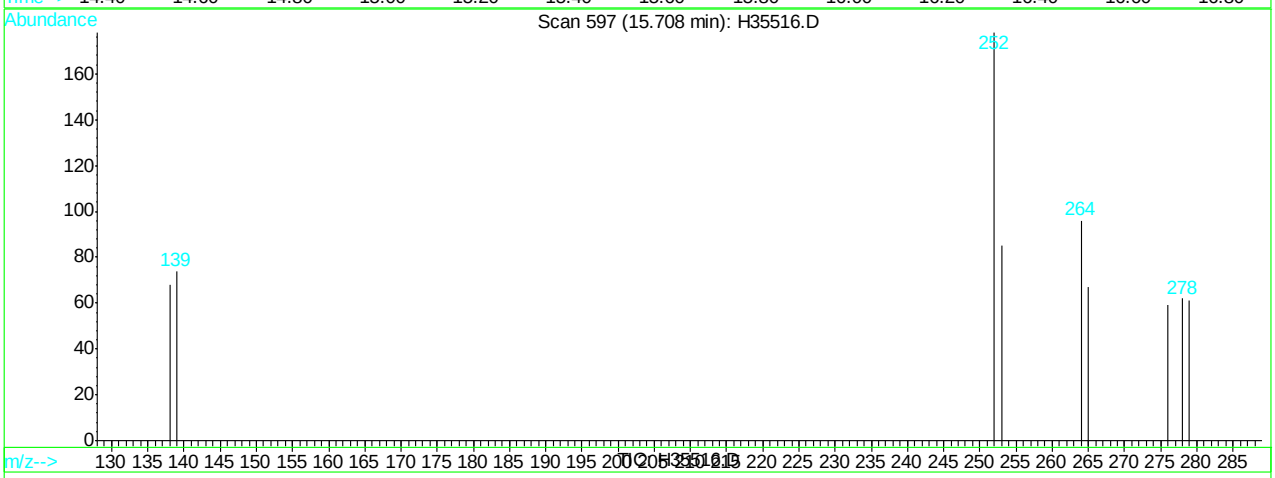
H35516.D H10229SP.M Thu Oct 22 13:31:21 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35516.D Vial: 5
Acq On : 21 Oct 2009 12:32 pm Operator: sheilac
Sample : ic1918-0.2 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:49 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.71min 0.14ppb m

response 639

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	47.75#
125.00	0.00	0.00
0.00	0.00	0.00

H35516.D H10229SP.M Thu Oct 22 13:31:24 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35517.D Vial: 6
Acq On : 21 Oct 2009 12:58 pm Operator: sheilac
Sample : ic1918-5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:59 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 13:58:34 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	81505	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	77465	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	55979	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	87324	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	48767	4.00	ppb	0.00
26) Perylene-d12	16.35	264	9936	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	108252	26.65	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 533.00%#			
10) 2-Fluorobiphenyl	8.87	172	1218319	27.16	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 543.20%#			
16) 2,4,6-Tribromophenol	10.40	330	173687	50.66	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 506.60%#			
23) Terphenyl-d14	12.66	244	253428	27.37	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 547.40%#			

Target Compounds

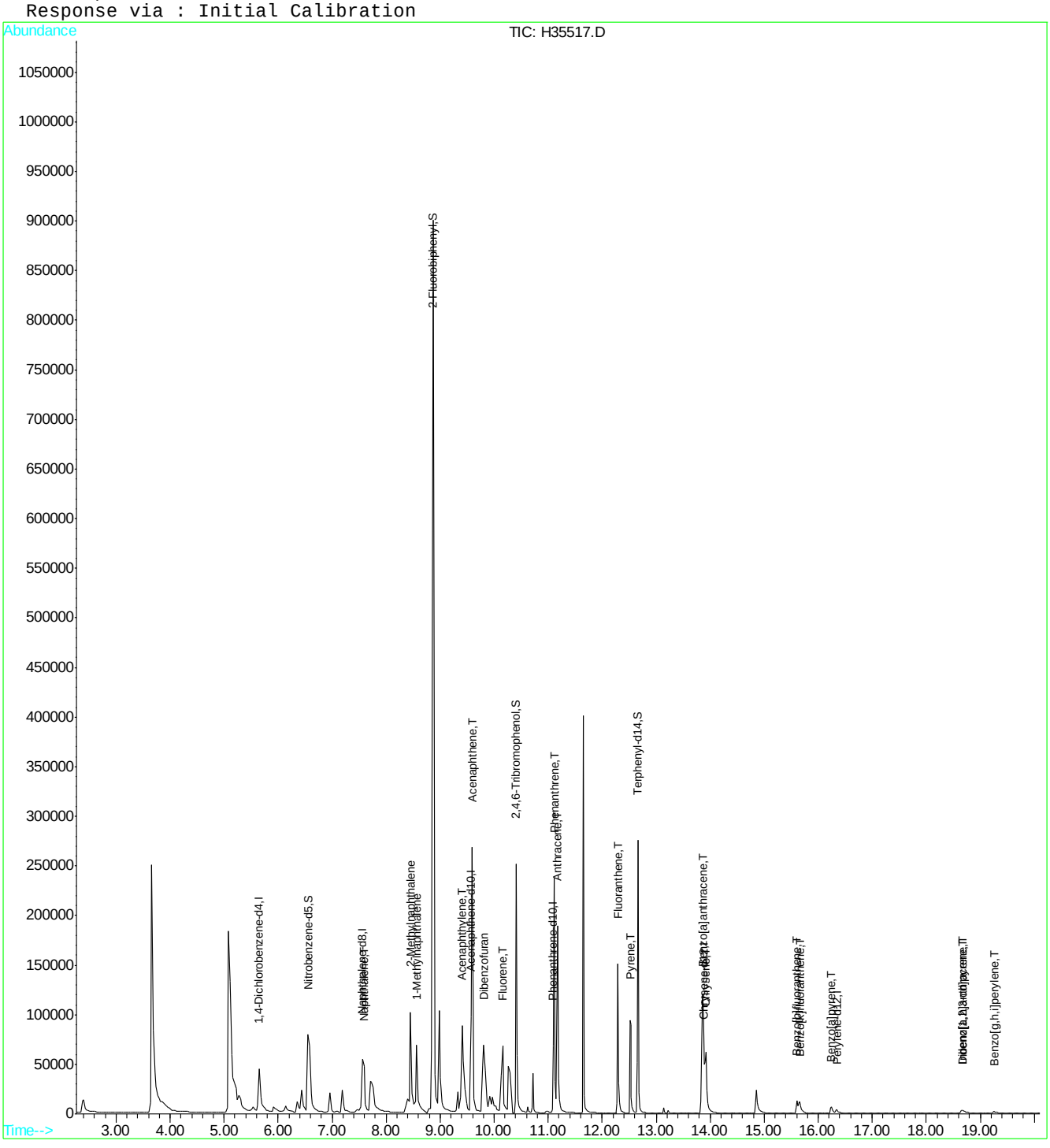
							Qvalue
6) Naphthalene	7.59	128	75148	4.76	ppb		96
7) 2-Methylnaphthalene	8.45	142	135625m	5.03	ppb		
8) 1-Methylnaphthalene	8.57	142	113677	4.76	ppb	#	94
11) Acenaphthylene	9.41	152	147243	4.68	ppb		95
12) Acenaphthene	9.60	153	178251	5.57	ppb		85
13) Dibenzofuran	9.81	168	111394	5.16	ppb		92
14) Fluorene	10.16	166	67068	4.58	ppb		96
18) Phenanthrene	11.11	178	221619	5.28	ppb		99
19) Anthracene	11.17	178	208251	4.79	ppb		97
20) Fluoranthene	12.29	202	186829	5.02	ppb		98
22) Pyrene	12.53	202	182971	4.88	ppb	#	80
24) Benzo[a]anthracene	13.87	228	84512	5.34	ppb		99
25) Chrysene	13.92	228	96836m	4.95	ppb		
27) Benzo[b]fluoranthene	15.60	252	21755	4.85	ppb		98
28) Benzo[k]fluoranthene	15.66	252	36201m	5.13	ppb		
29) Benzo[a]pyrene	16.25	252	20844	5.07	ppb		99
30) Indeno[1,2,3-cd]pyrene	18.67	276	8450	5.01	ppb		91
31) Dibenz[a,h]anthracene	18.67	278	5815	5.11	ppb		91
32) Benzo[g,h,i]perylene	19.26	276	6988	5.09	ppb		98

(#) = qualifier out of range (m) = manual integration
H35517.D H10229SP.M Thu Oct 22 13:31:35 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35517.D Vial: 6
Acq On : 21 Oct 2009 12:58 pm Operator: sheilac
Sample : ic1918-5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:59 2009 Quant Results File: H10219SP.RES

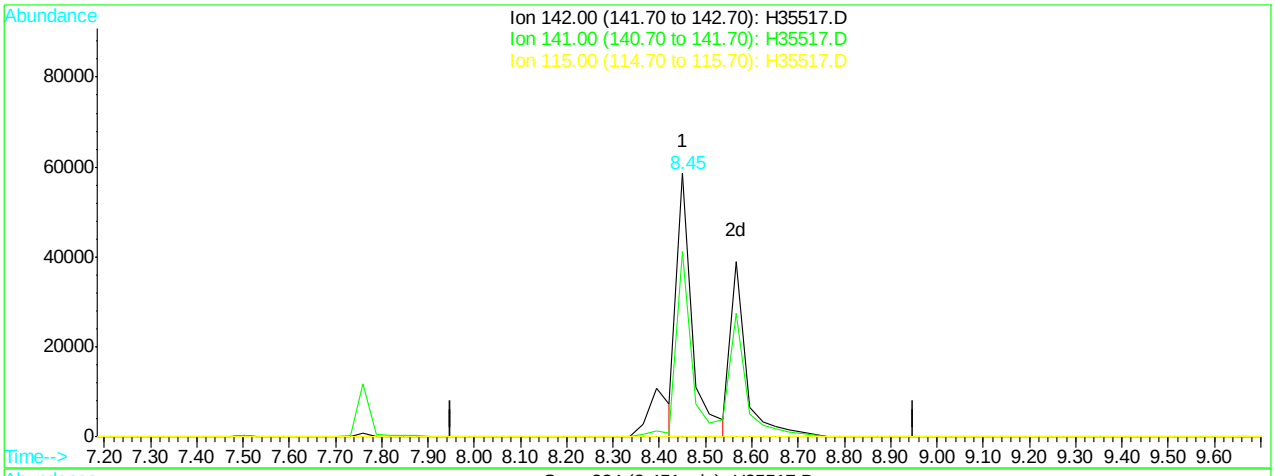
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

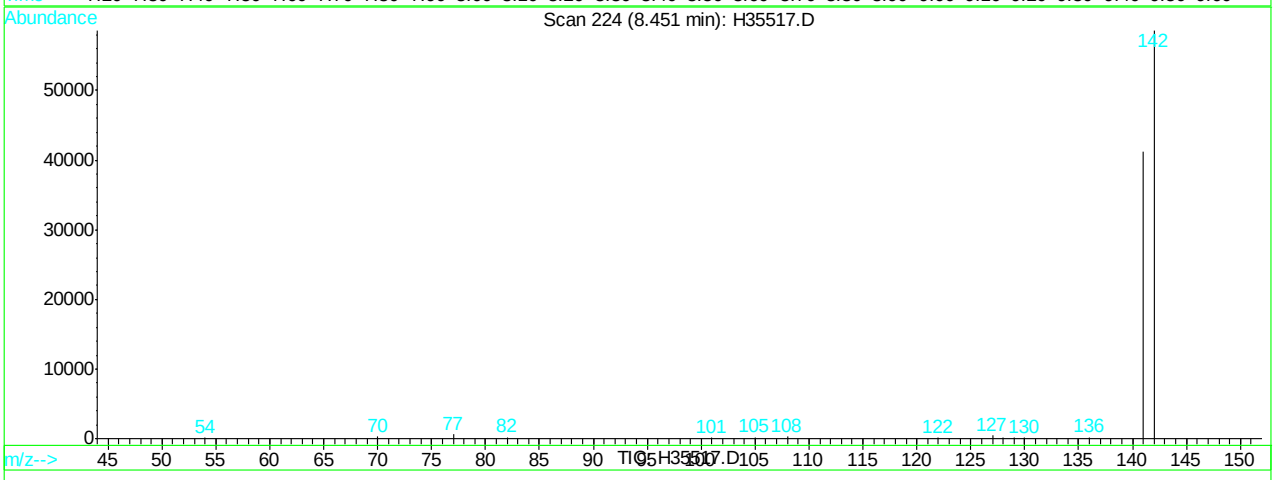


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35517.D Vial: 6
Acq On : 21 Oct 2009 12:58 pm Operator: sheilac
Sample : ic1918-5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.45min 5.03ppb m

response 135625

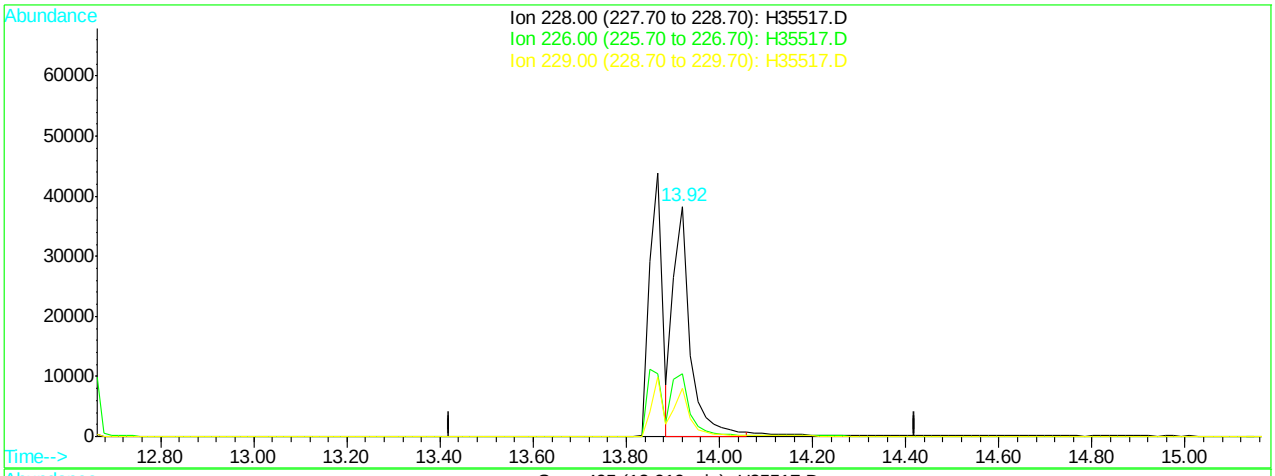
Ion	Exp%	Act%
142.00	100	100
141.00	72.40	68.23
115.00	0.00	0.00
0.00	0.00	0.00

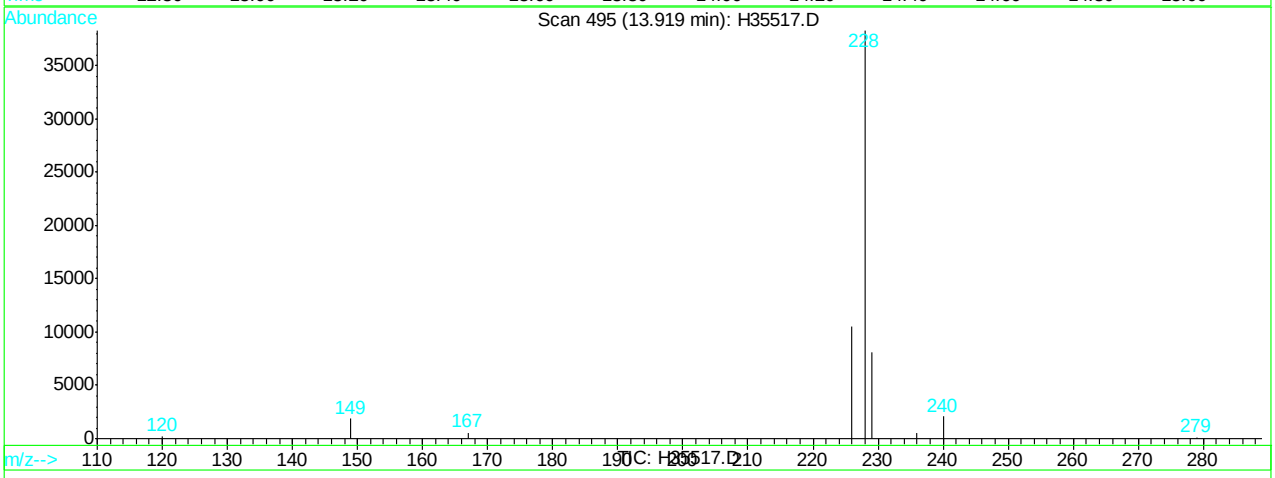
H35517.D H10229SP.M Thu Oct 22 13:38:28 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35517.D Vial: 6
Acq On : 21 Oct 2009 12:58 pm Operator: sheilac
Sample : ic1918-5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 4.95ppb m

response 96836

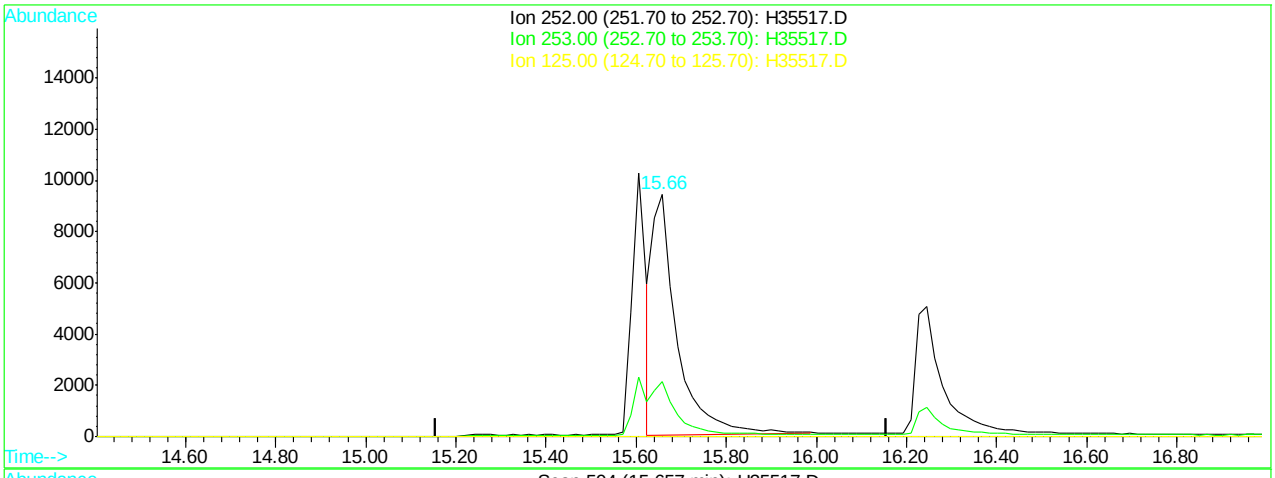
Ion	Exp%	Act%
228.00	100	100
226.00	28.00	27.54
229.00	20.90	21.06
0.00	0.00	0.00

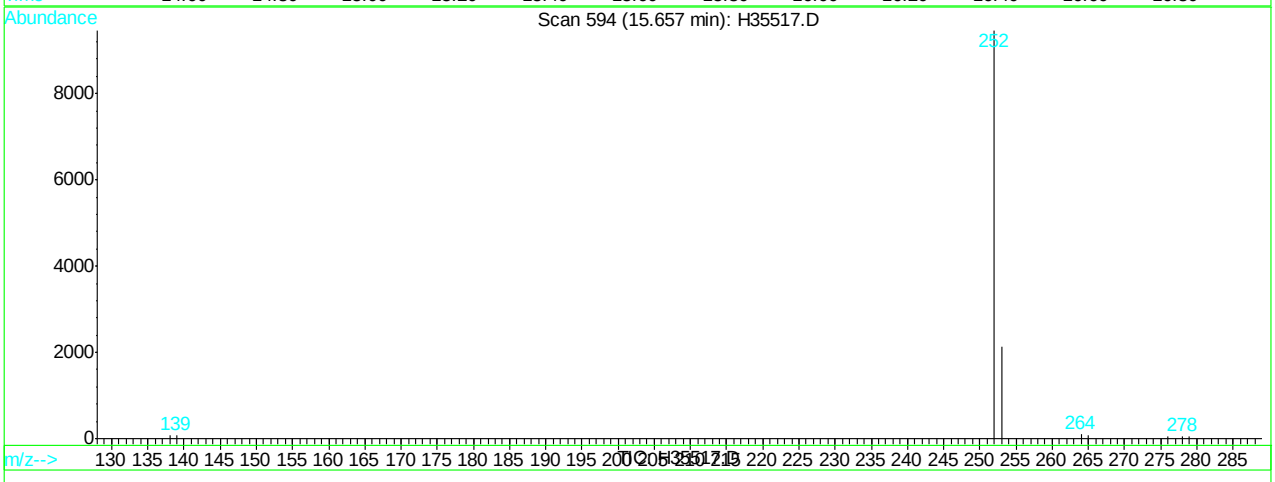
H35517.D H10229SP.M Thu Oct 22 13:38:33 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35517.D Vial: 6
Acq On : 21 Oct 2009 12:58 pm Operator: sheilac
Sample : ic1918-5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:59 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.66min 5.13ppb m

response 36201

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	22.65
125.00	0.00	0.00
0.00	0.00	0.00

H35517.D H10229SP.M Thu Oct 22 13:38:37 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35518.D Vial: 7
Acq On : 21 Oct 2009 1:29 pm Operator: sheilac
Sample : ic1918-10 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:50 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 13:13:22 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	78182	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	84220	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	48510	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	90103	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	53189	4.00	ppb	0.02
26) Perylene-d12	16.35	264	9406	4.00	ppb	0.04

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	153715	22.50	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 450.00%#			
10) 2-Fluorobiphenyl	8.87	172	1799205	61.44	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 1228.80%#			
16) 2,4,6-Tribromophenol	10.40	330	318909	68.27	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 682.70%#			
23) Terphenyl-d14	12.66	244	432444	64.72	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1294.40%#			

Target Compounds

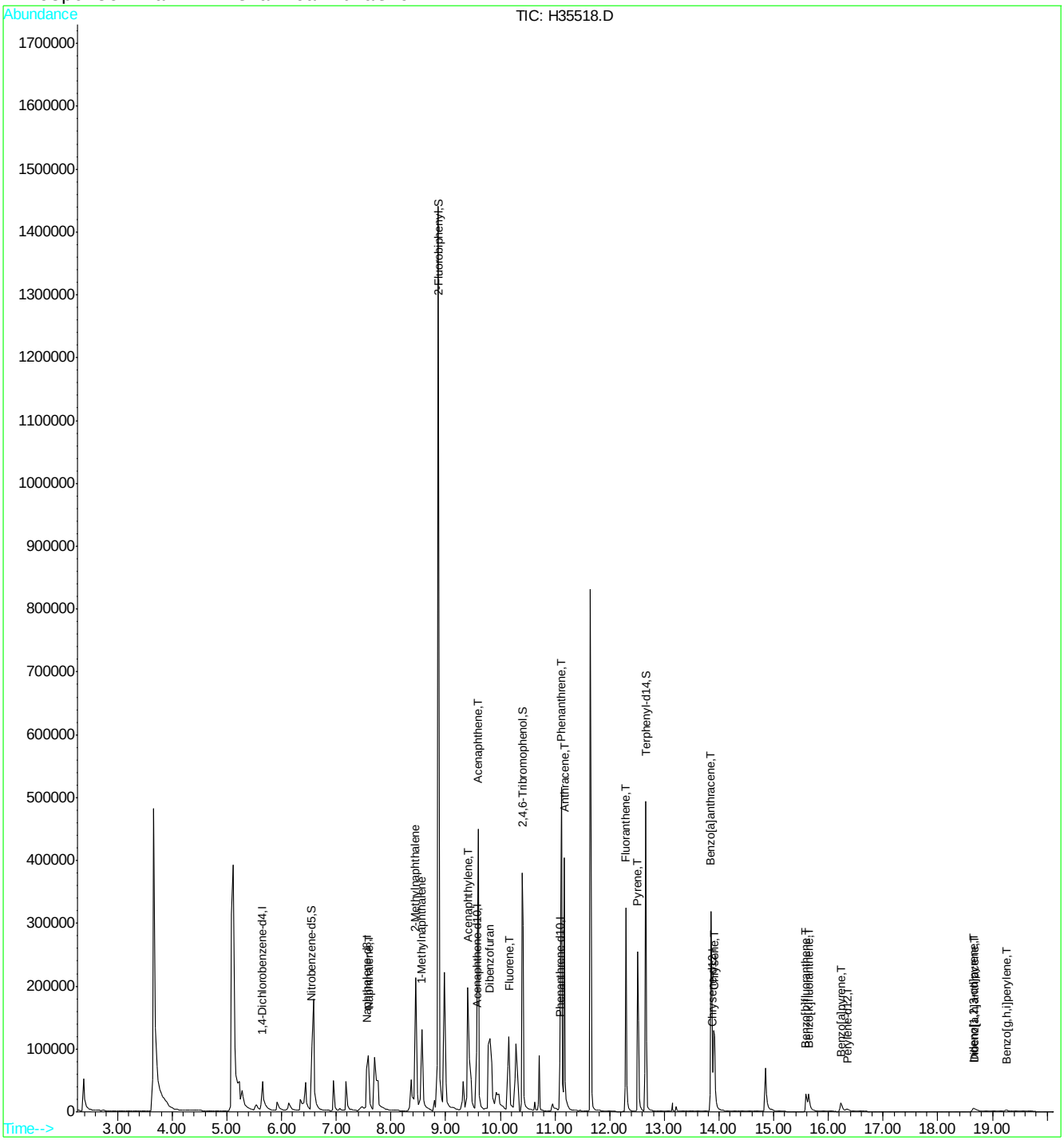
							Qvalue
6) Naphthalene	7.59	128	138853	4.05	ppb		95
7) 2-Methylnaphthalene	8.45	142	252724m	8.72	ppb		
8) 1-Methylnaphthalene	8.57	142	202207	4.80	ppb	#	95
11) Acenaphthylene	9.41	152	300947	7.93	ppb		88
12) Acenaphthene	9.60	153	295655	10.22	ppb	#	64
13) Dibenzofuran	9.81	168	186676	7.63	ppb	#	41
14) Fluorene	10.16	166	118966	6.54	ppb	#	40
18) Phenanthrene	11.11	178	469805	9.67	ppb		93
19) Anthracene	11.17	178	407079	7.94	ppb		99
20) Fluoranthene	12.29	202	377868	7.76	ppb		99
22) Pyrene	12.51	202	377010	12.51	ppb	#	94
24) Benzo[a]anthracene	13.85	228	198853	10.23	ppb		87
25) Chrysene	13.92	228	207372	10.72	ppb		93
27) Benzo[b]fluoranthene	15.59	252	56431	15.38	ppb		97
28) Benzo[k]fluoranthene	15.64	252	60937m	12.05	ppb		
29) Benzo[a]pyrene	16.23	252	40464	13.33	ppb		99
30) Indeno[1,2,3-cd]pyrene	18.65	276	14816	14.37	ppb		94
31) Dibenz[a,h]anthracene	18.67	278	10339	16.13	ppb		95
32) Benzo[g,h,i]perylene	19.26	276	11094	14.89	ppb		98

(#) = qualifier out of range (m) = manual integration
H35518.D H10229SP.M Thu Oct 22 13:38:43 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35518.D Vial: 7
Acq On : 21 Oct 2009 1:29 pm Operator: sheilac
Sample : ic1918-10 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:50 2009 Quant Results File: H10219SP.RES

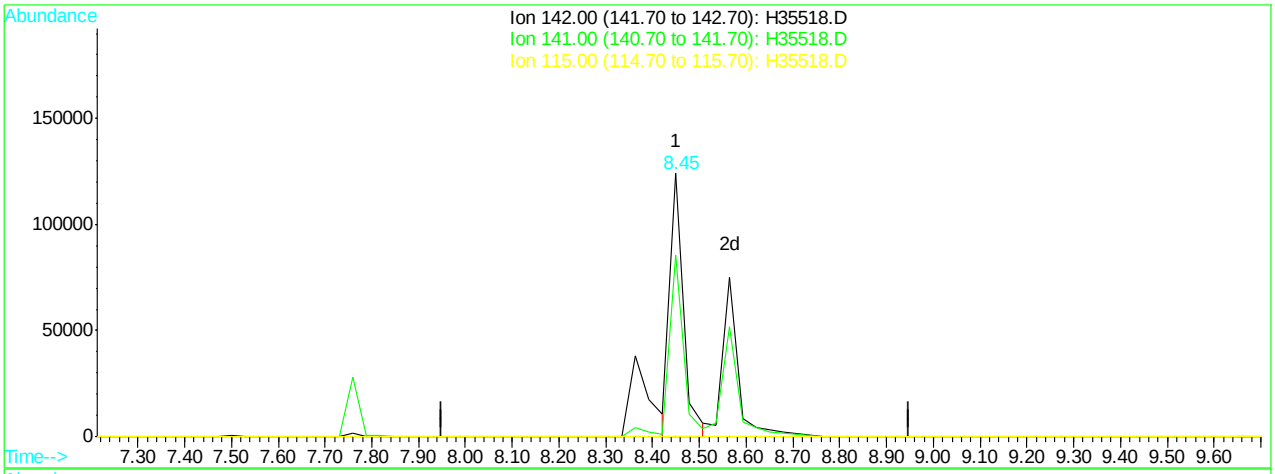
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

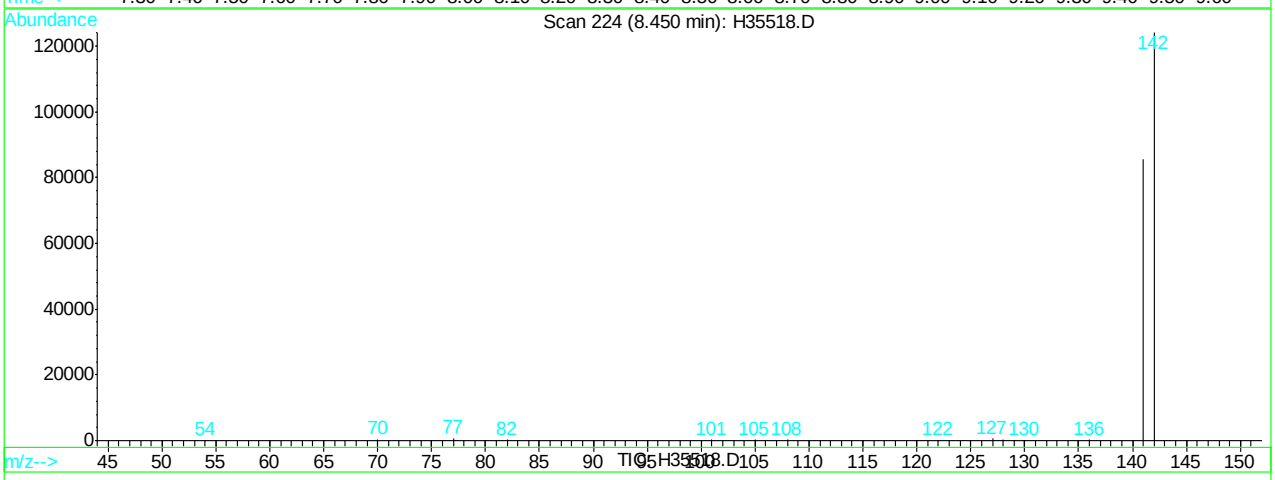


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35518.D Vial: 7
Acq On : 21 Oct 2009 1:29 pm Operator: sheilac
Sample : ic1918-10 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:50 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.45min 8.72ppb m

response 252724

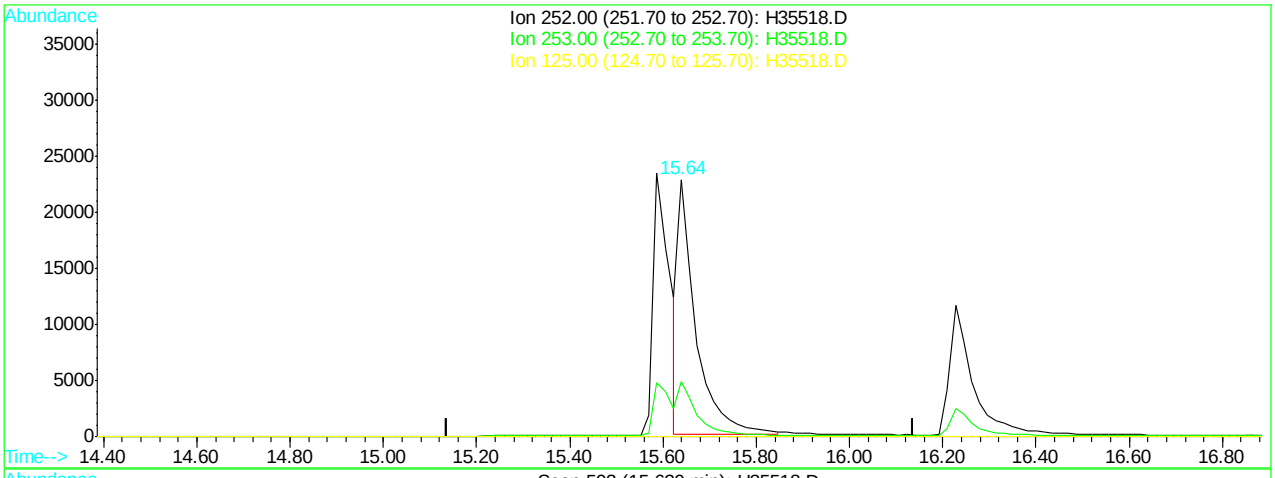
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	72.90
115.00	0.00	0.00
0.00	0.00	0.00

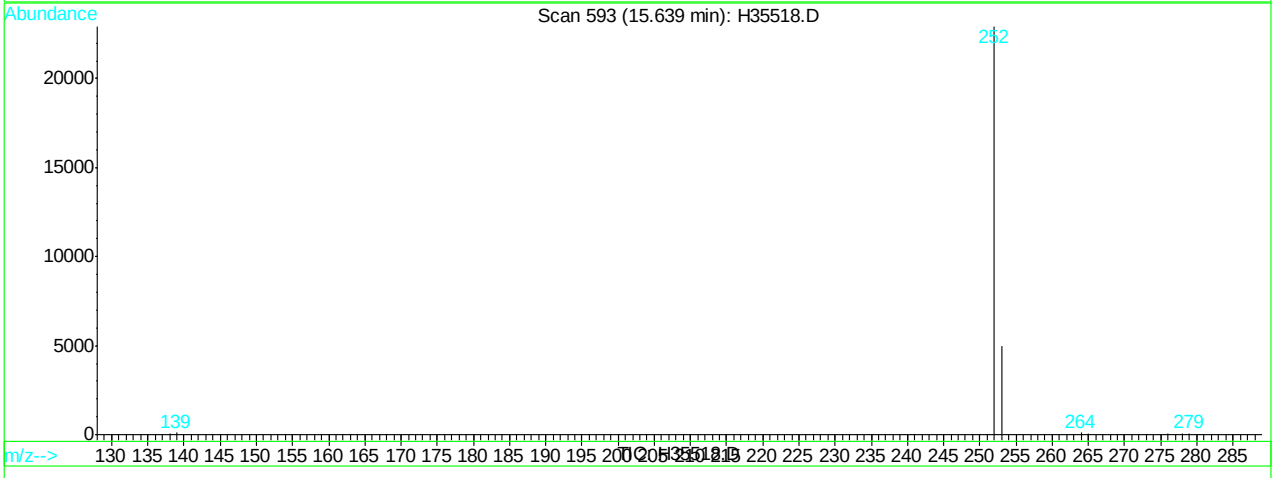
H35518.D H10229SP.M Thu Oct 22 13:38:59 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35518.D Vial: 7
Acq On : 21 Oct 2009 1:29 pm Operator: sheilac
Sample : ic1918-10 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 13:50 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.64min 12.05ppb m

response 60937

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	21.59
125.00	0.00	0.00
0.00	0.00	0.00

H35518.D H10229SP.M Thu Oct 22 13:39:03 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/23/09 13:48

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1918\H35519.D Vial: 8
Acq On : 21 Oct 2009 1:57 pm Operator: sheilac
Sample : icv1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 14:43 2009 Quant Results File: H10219SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10219SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Wed Oct 21 14:43:08 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	113916	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	130932	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	63895	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	99758	4.00	ppb	0.00
21) Chrysene-d12	13.89	240	54593	4.00	ppb	0.00
26) Perylene-d12	16.35	264	11936	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount 5.000	Range 17 - 131		Recovery	=	0.00%#	
10) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount 5.000	Range 15 - 137		Recovery	=	0.00%#	
16) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ppb	
Spiked Amount 10.000	Range 10 - 123		Recovery	=	0.00%#	
23) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 5.000	Range 10 - 160		Recovery	=	0.00%#	

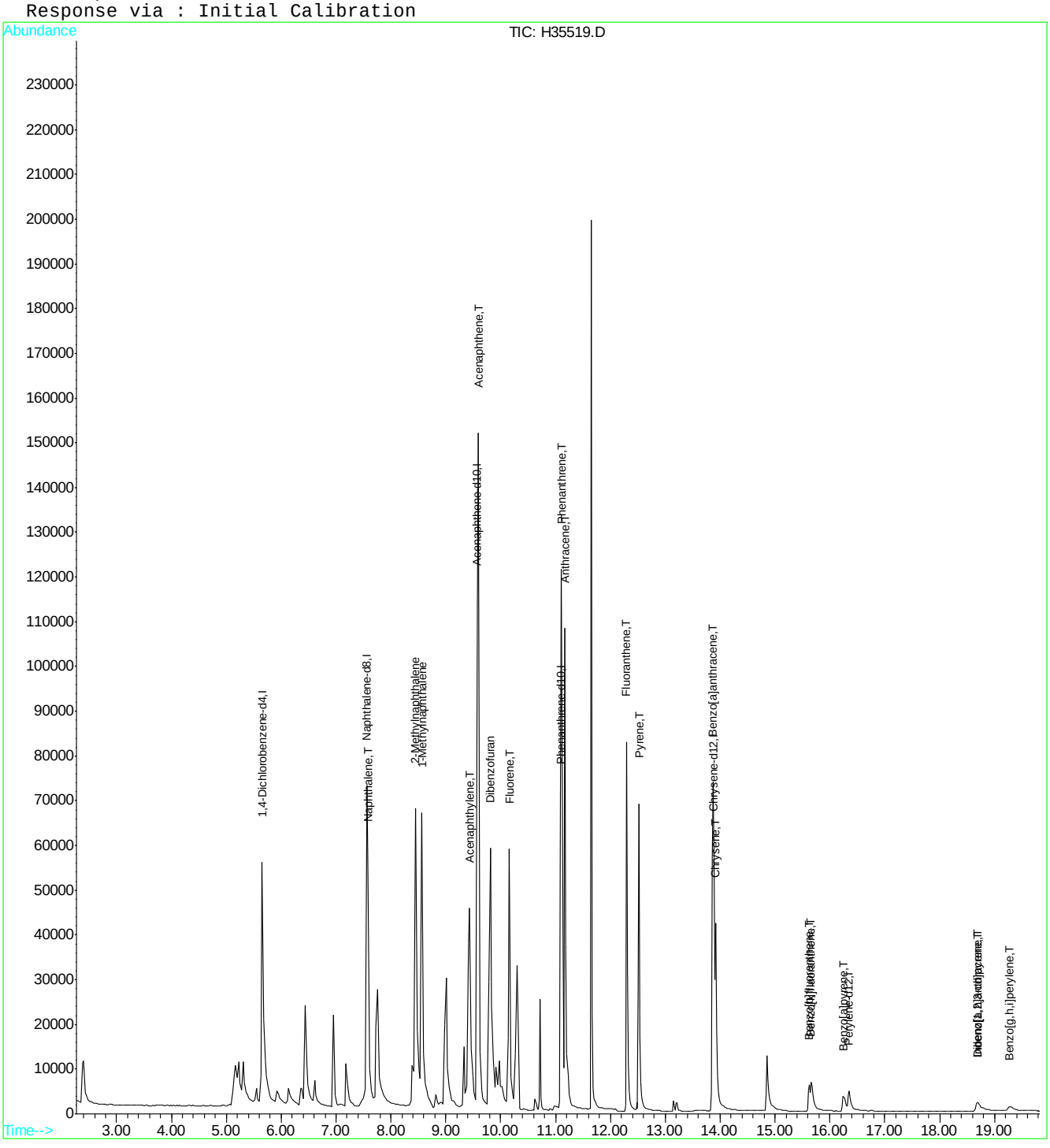
Target Compounds							Qvalue
6) Naphthalene	7.59	128	73488	2.49	ppb		97
7) 2-Methylnaphthalene	8.45	142	114102	2.40	ppb	#	87
8) 1-Methylnaphthalene	8.56	142	109437	2.43	ppb	#	98
11) Acenaphthylene	9.43	152	85416	2.38	ppb	#	79
12) Acenaphthene	9.60	153	100158	2.74	ppb		81
13) Dibenzofuran	9.81	168	89641	2.99	ppb		95
14) Fluorene	10.16	166	51473	3.08	ppb		98
18) Phenanthrene	11.11	178	118291	2.47	ppb		92
19) Anthracene	11.17	178	139346	2.80	ppb		94
20) Fluoranthene	12.29	202	117108	2.75	ppb		98
22) Pyrene	12.53	202	111359	2.53	ppb	#	79
24) Benzo[a]anthracene	13.87	228	46953m	2.65	ppb		
25) Chrysene	13.92	228	58199m	2.67	ppb		
27) Benzo[b]fluoranthene	15.62	252	12842	2.76	ppb		98
28) Benzo[k]fluoranthene	15.66	252	21335m	2.42	ppb		
29) Benzo[a]pyrene	16.24	252	11657	2.46	ppb		99
30) Indeno[1,2,3-cd]pyrene	18.68	276	5117	2.61	ppb		99
31) Dibenz[a,h]anthracene	18.68	278	3348	2.57	ppb		95
32) Benzo[g,h,i]perylene	19.27	276	4458	2.61	ppb		96

(#) = qualifier out of range (m) = manual integration
H35519.D H10229SP.M Thu Oct 22 13:39:09 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1918\H35519.D Vial: 8
Acq On : 21 Oct 2009 1:57 pm Operator: sheilac
Sample : icv1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 14:43 2009 Quant Results File: H10219SP.RES

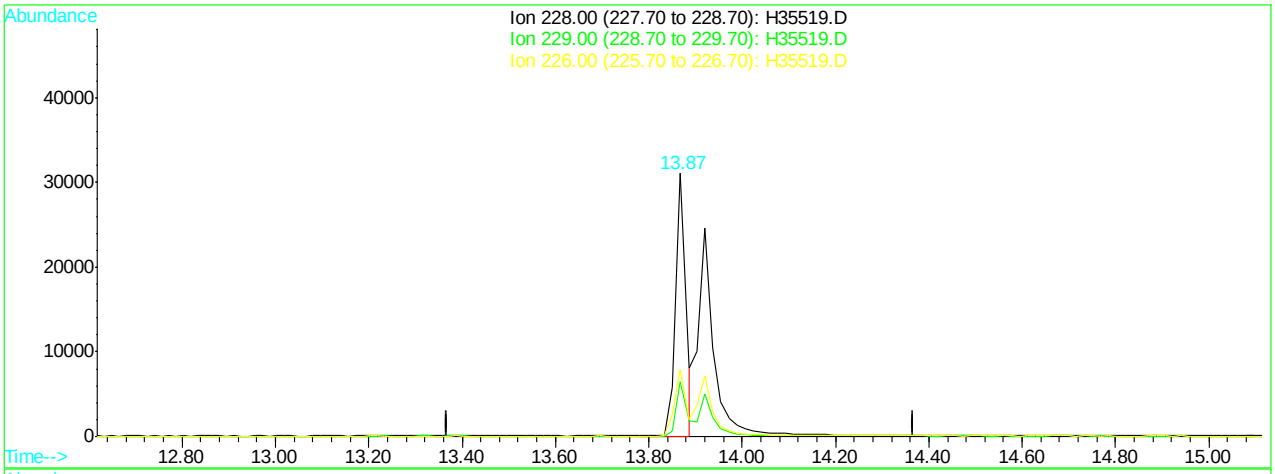
Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration

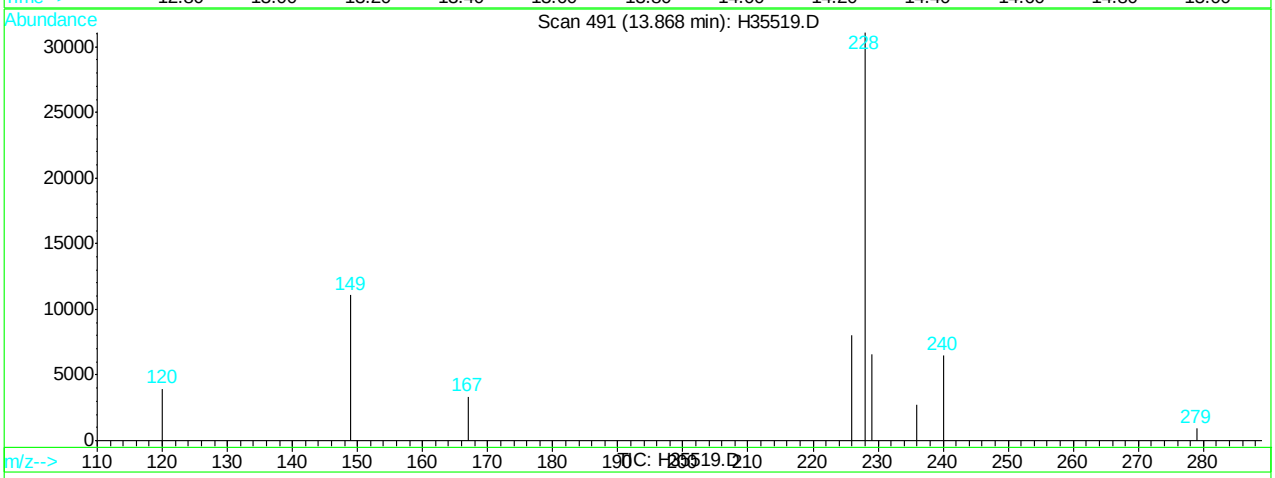


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35519.D Vial: 8
Acq On : 21 Oct 2009 1:57 pm Operator: sheilac
Sample : icv1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 14:43 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.87min 2.65ppb m

response 46953

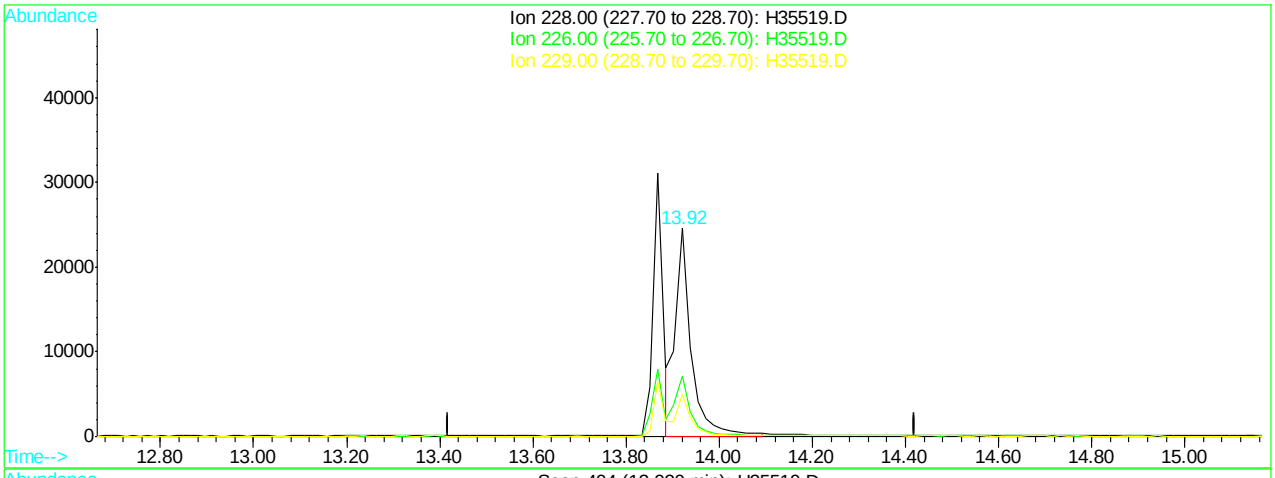
Ion	Exp%	Act%
228.00	100	100
229.00	21.80	21.09
226.00	23.70	25.70
0.00	0.00	0.00

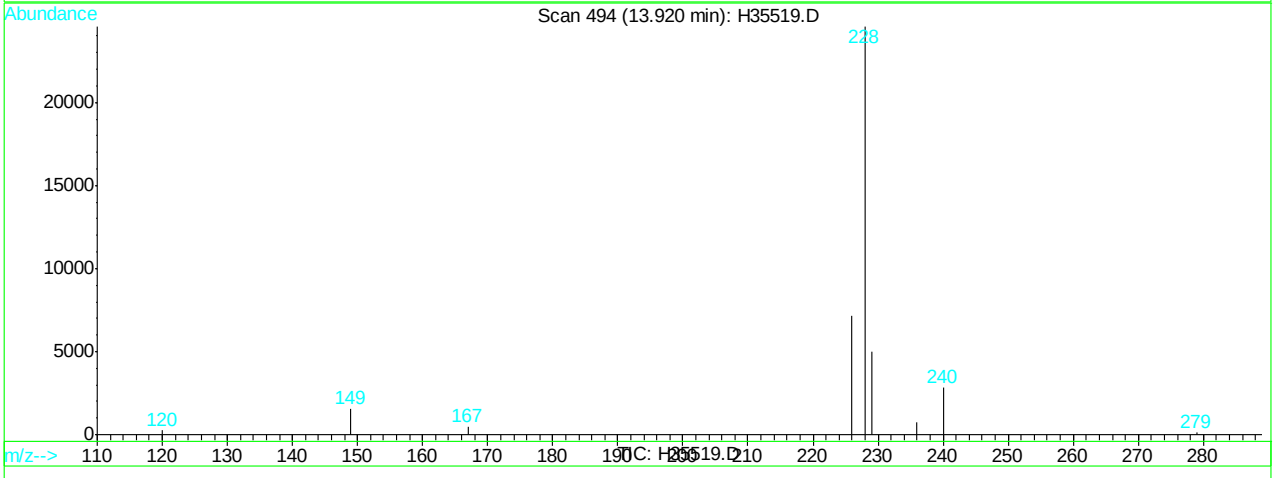
H35519.D H10229SP.M Thu Oct 22 13:39:31 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35519.D Vial: 8
Acq On : 21 Oct 2009 1:57 pm Operator: sheilac
Sample : icv1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 14:43 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.92min 2.67ppb m

response 58199

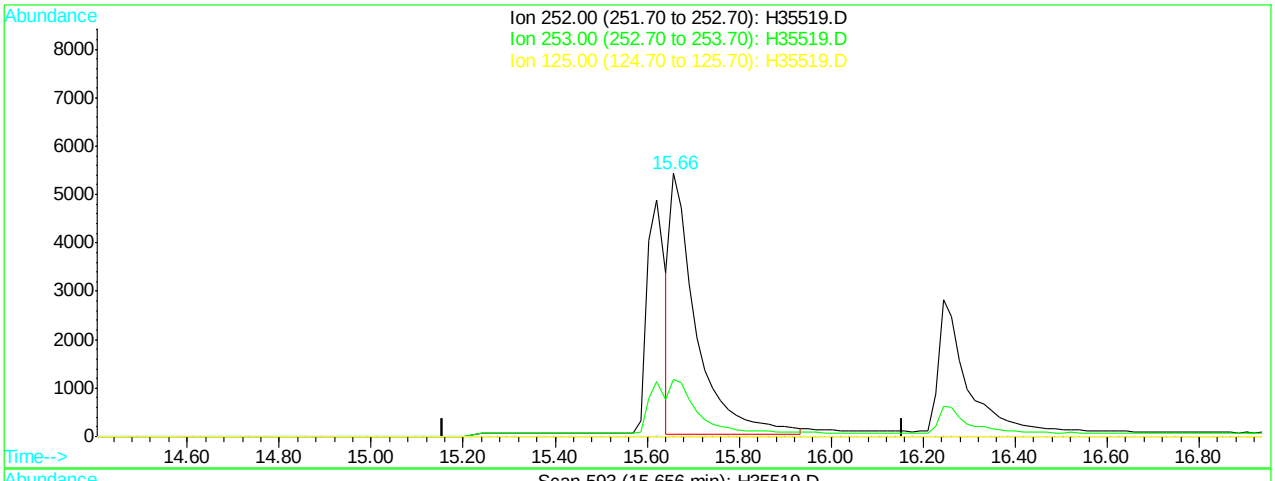
Ion	Exp%	Act%
228.00	100	100
226.00	28.00	28.99
229.00	20.90	20.32
0.00	0.00	0.00

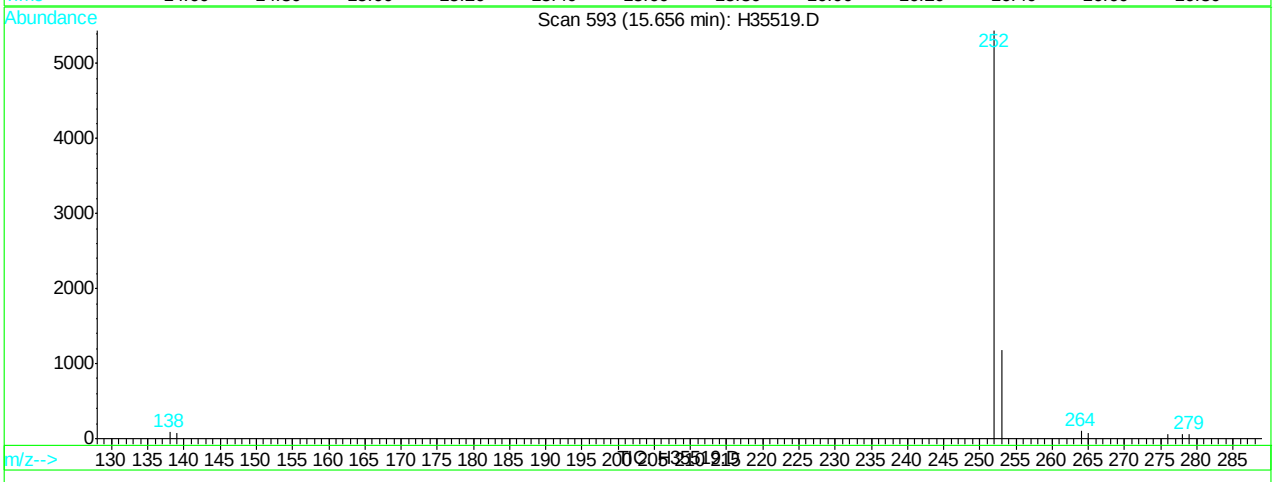
H35519.D H10229SP.M Thu Oct 22 13:39:34 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1918\H35519.D Vial: 8
Acq On : 21 Oct 2009 1:57 pm Operator: sheilac
Sample : icv1918-2.5 Inst : TXMSH
Misc : OP12779,EH1918,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 14:43 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.66min 2.42ppb m

response 21335

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	21.59
125.00	0.00	0.00
0.00	0.00	0.00

H35519.D H10229SP.M Thu Oct 22 13:39:36 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35545.D Vial: 3
Acq On : 22 Oct 2009 12:02 pm Operator: sheilac
Sample : ic1919-1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:29 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 13:09:15 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	76787	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	47180	4.00	ppb	0.02
9) Acenaphthene-d10	9.57	164	38115	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	63280	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	10939	4.00	ppb	0.02
26) Perylene-d12	16.37	264	4528	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.60	82	16681	8.24	ppb	0.05
Spiked Amount 5.000	Range 17 - 131		Recovery = 164.80%#			
10) 2-Fluorobiphenyl	8.87	172	145284	5.66	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 113.20%			
16) 2,4,6-Tribromophenol	10.42	330	22515	10.92	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery = 109.20%			
23) Terphenyl-d14	12.68	244	12222	5.89	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery = 117.80%			

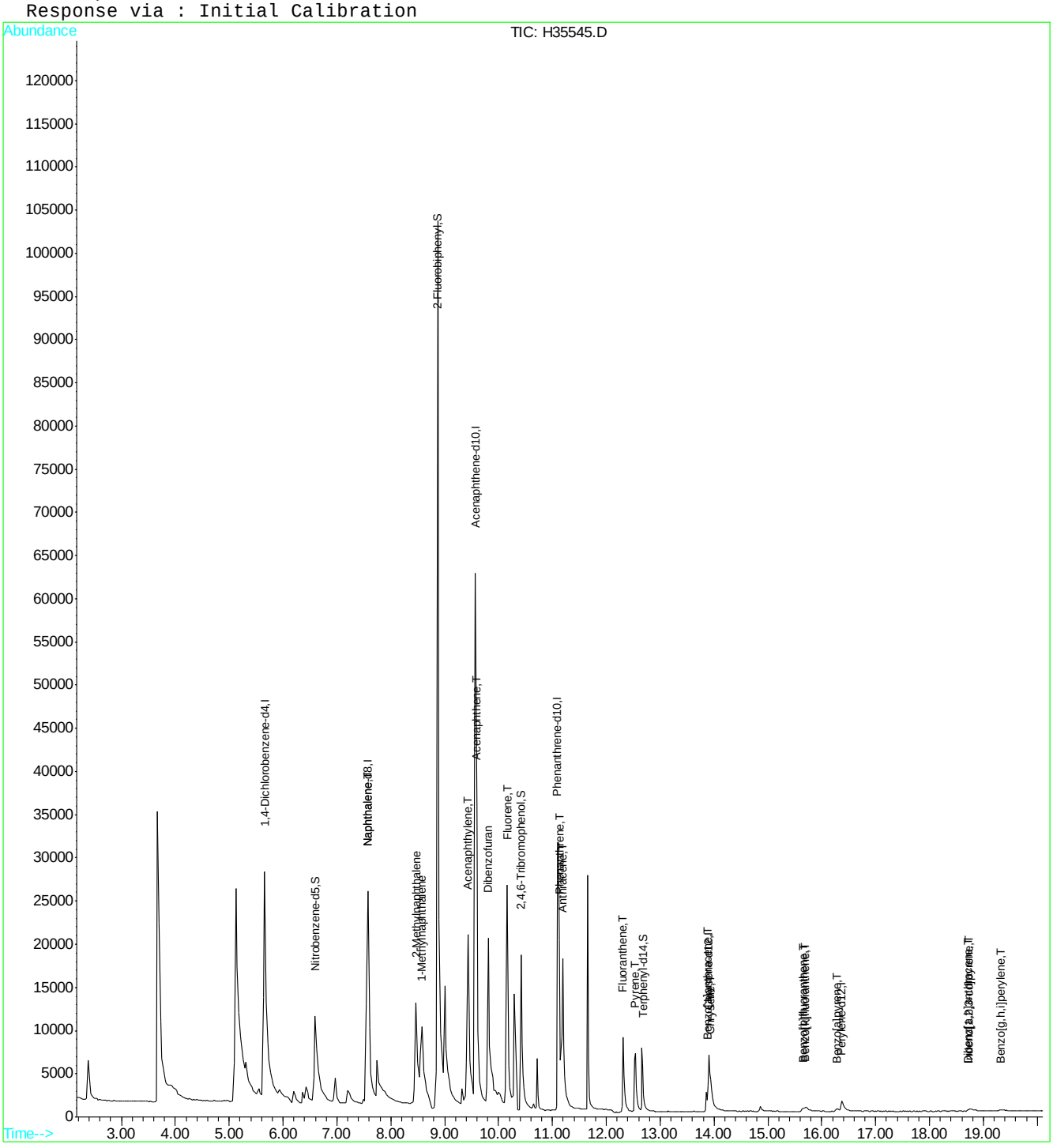
Target Compounds							Qvalue
6) Naphthalene	7.57	128	23265	1.97	ppb	#	83
7) 2-Methylnaphthalene	8.47	142	21304	1.81	ppb	#	88
8) 1-Methylnaphthalene	8.58	142	26240	1.69	ppb	#	93
11) Acenaphthylene	9.43	152	30128	1.41	ppb	#	79
12) Acenaphthene	9.60	153	22356	1.03	ppb	#	72
13) Dibenzofuran	9.81	168	36992	2.07	ppb	#	62
14) Fluorene	10.16	166	23450	2.35	ppb		90
18) Phenanthrene	11.13	178	27877	0.92	ppb		92
19) Anthracene	11.19	178	33279	1.06	ppb		99
20) Fluoranthene	12.31	202	16252	0.60	ppb		99
22) Pyrene	12.54	202	17911	1.82	ppb	#	83
24) Benzo[a]anthracene	13.88	228	2864m	0.81	ppb		
25) Chrysene	13.94	228	4652m	1.06	ppb		
27) Benzo[b]fluoranthene	15.66	252	990m	0.63	ppb		
28) Benzo[k]fluoranthene	15.69	252	2308m	0.88	ppb		
29) Benzo[a]pyrene	16.28	252	1531	1.04	ppb		98
30) Indeno[1,2,3-cd]pyrene	18.74	276	1025	1.51	ppb		85
31) Dibenz[a,h]anthracene	18.72	278	741	1.71	ppb	#	80
32) Benzo[g,h,i]perylene	19.32	276	979	1.65	ppb		90

(#) = qualifier out of range (m) = manual integration
H35545.D H10269SP.M Tue Oct 27 14:20:00 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35545.D Vial: 3
Acq On : 22 Oct 2009 12:02 pm Operator: sheilac
Sample : ic1919-1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:29 2009 Quant Results File: H10229SP.RES

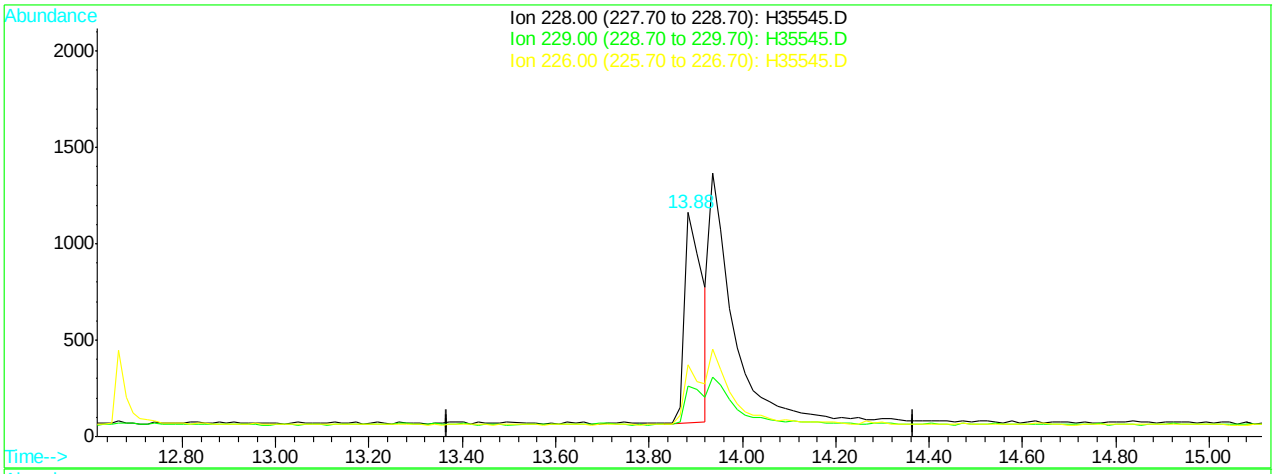
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

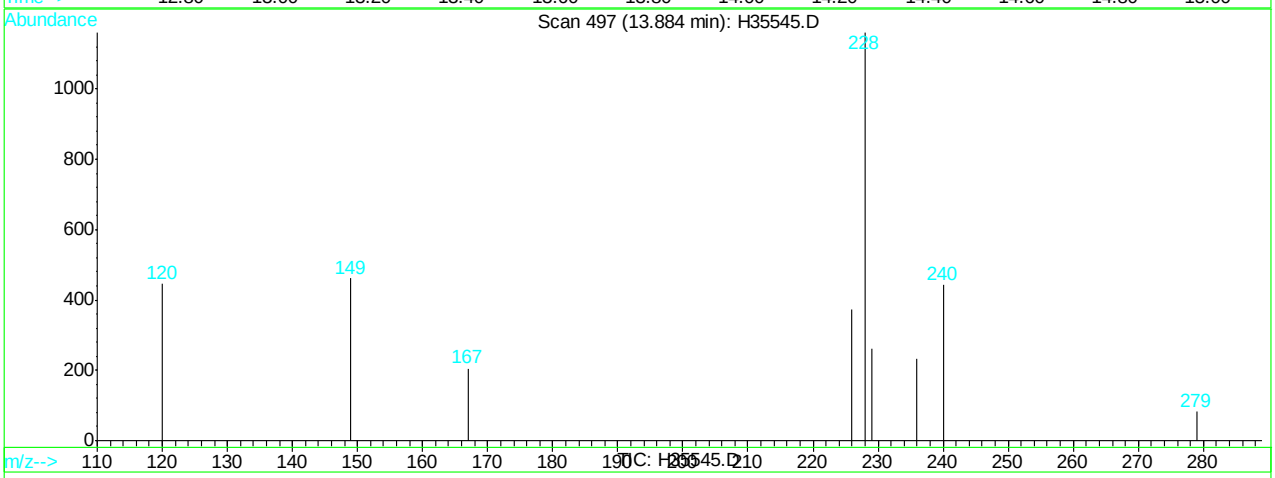


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35545.D Vial: 3
Acq On : 22 Oct 2009 12:02 pm Operator: sheilac
Sample : ic1919-1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:29 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.88min 0.81ppb m

response 2864

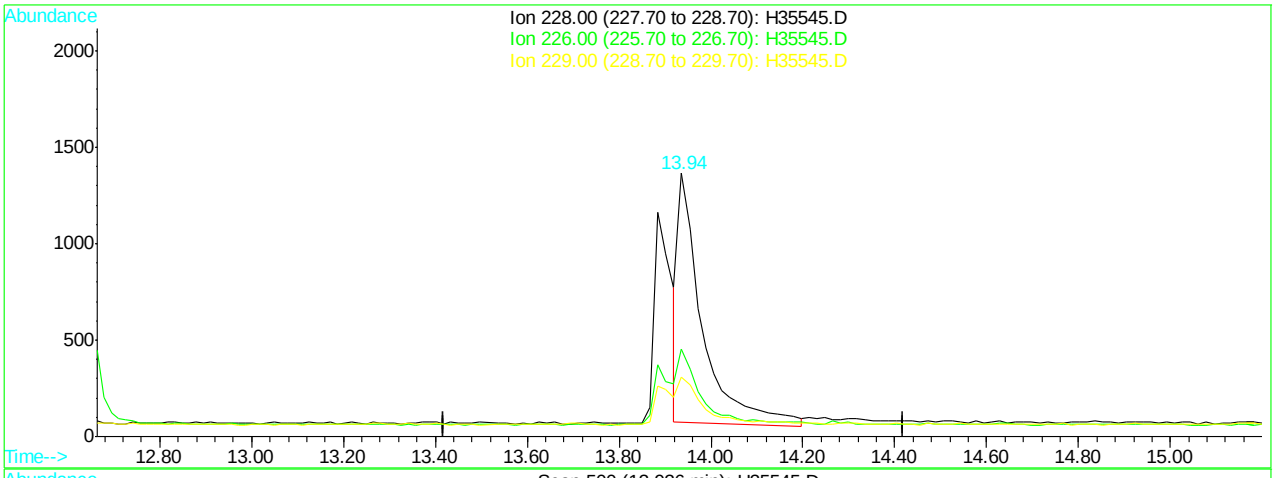
Ion	Exp%	Act%
228.00	100	100
229.00	21.80	22.41
226.00	23.70	32.07#
0.00	0.00	0.00

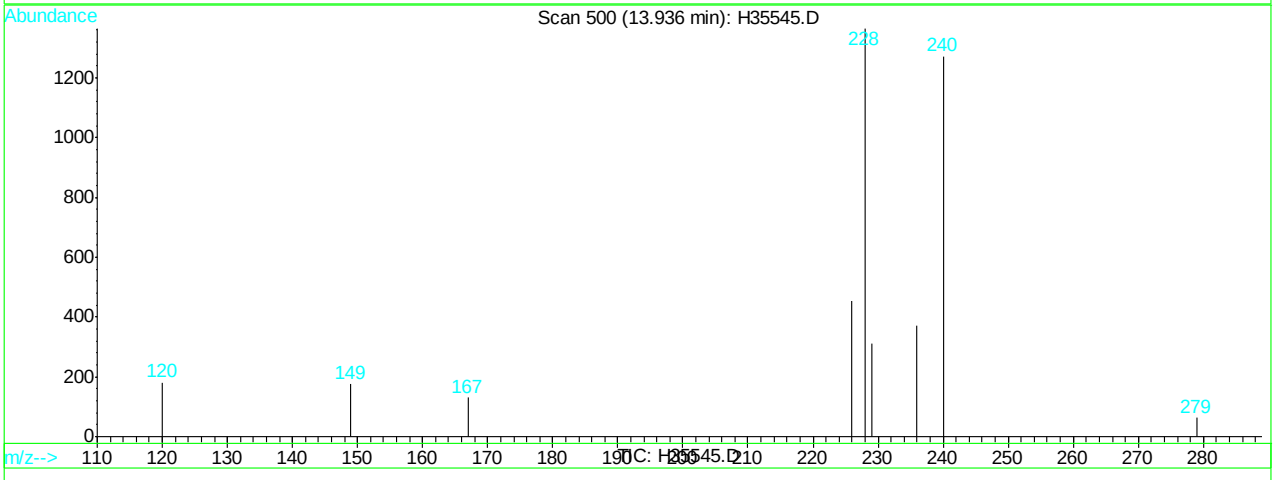
H35545.D H10269SP.M Tue Oct 27 14:20:33 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35545.D Vial: 3
Acq On : 22 Oct 2009 12:02 pm Operator: sheilac
Sample : ic1919-1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:29 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 1.06ppb m

response 4652

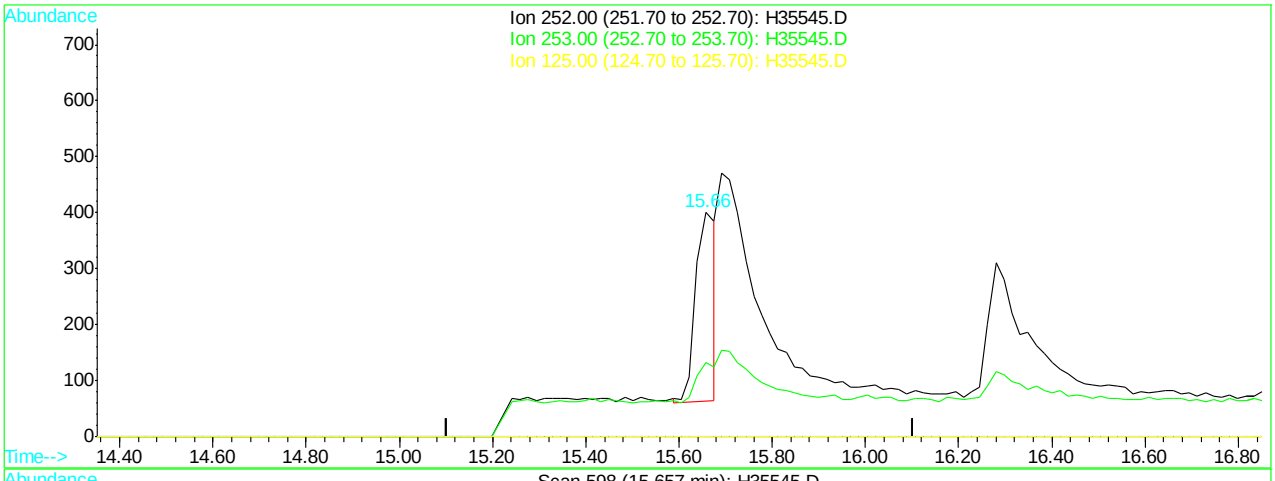
Ion	Exp%	Act%
228.00	100	100
226.00	28.00	33.11
229.00	20.90	22.78
0.00	0.00	0.00

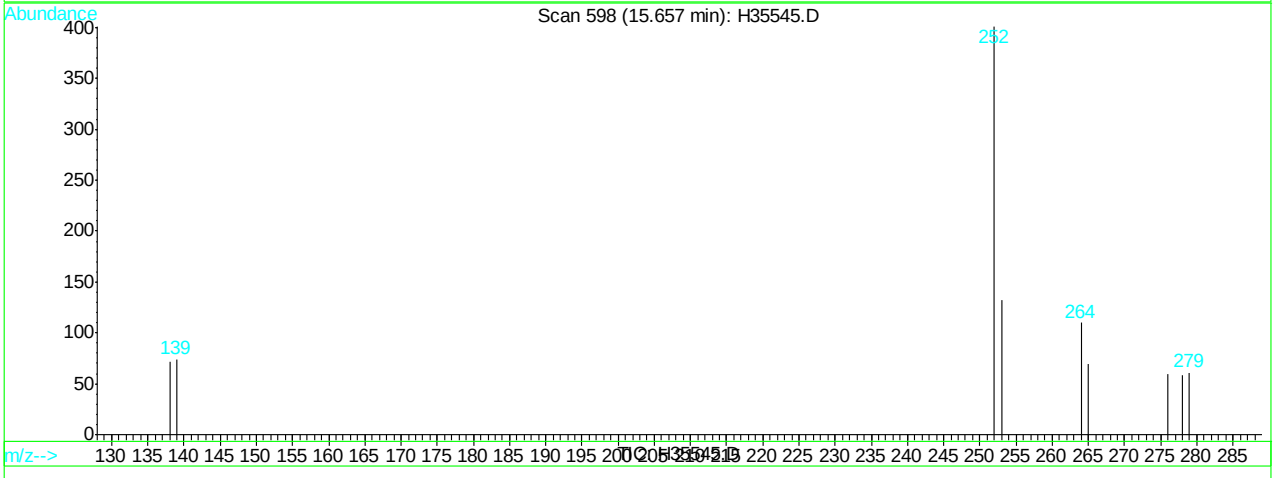
H35545.D H10269SP.M Tue Oct 27 14:20:36 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35545.D Vial: 3
Acq On : 22 Oct 2009 12:02 pm Operator: sheilac
Sample : ic1919-1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:29 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.66min 0.63ppb m

response 990

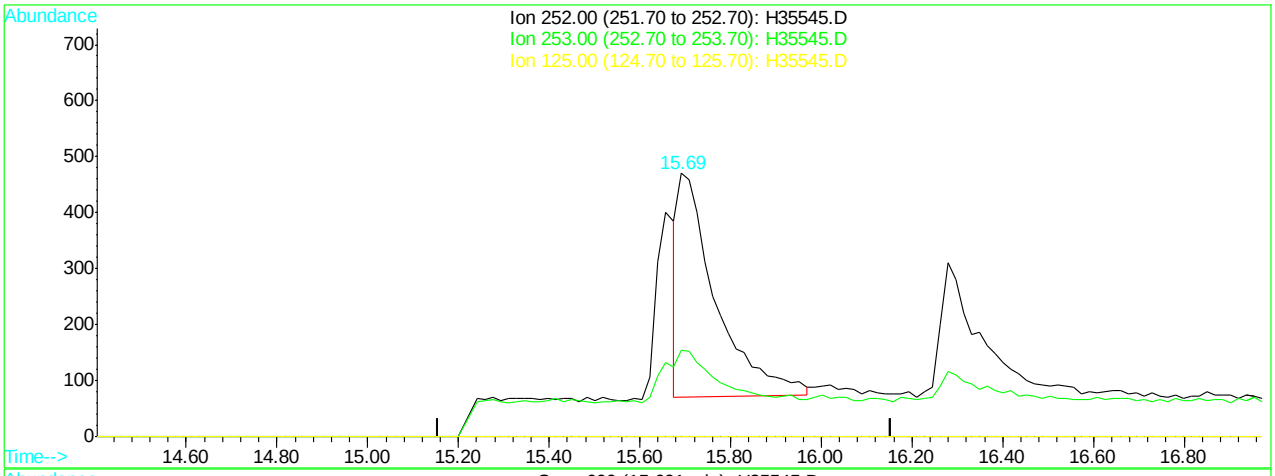
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	32.92#
125.00	0.00	0.00
0.00	0.00	0.00

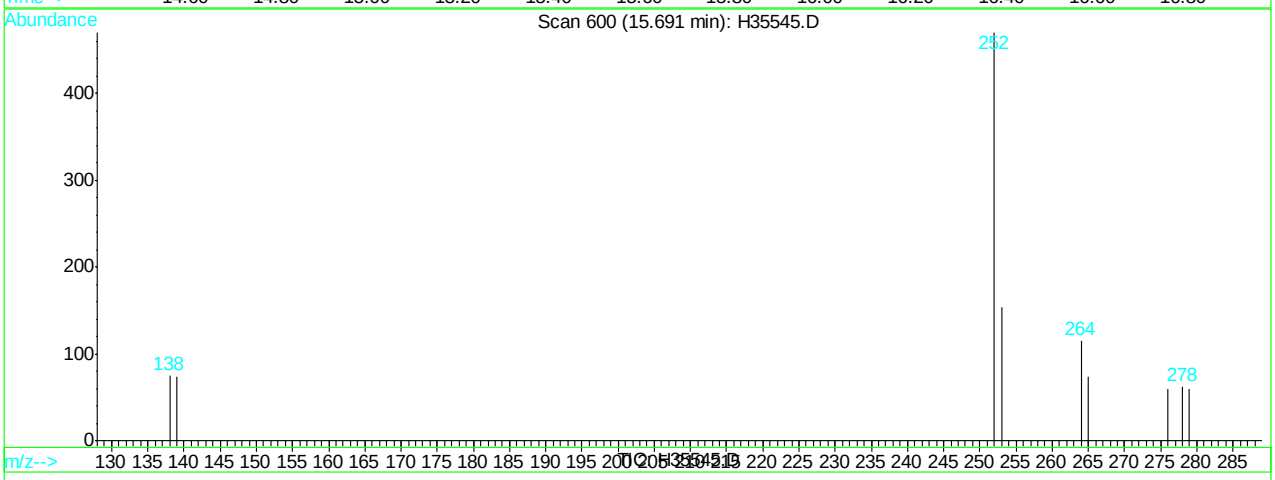
H35545.D H10269SP.M Tue Oct 27 14:20:40 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35545.D Vial: 3
Acq On : 22 Oct 2009 12:02 pm Operator: sheilac
Sample : ic1919-1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:29 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.69min 0.88ppb m

response 2308

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	32.77#
125.00	0.00	0.00
0.00	0.00	0.00

H35545.D H10269SP.M Tue Oct 27 14:20:43 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 14:32:20 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	70003	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	48295	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	33786	4.00	ppb	0.00
15) Phenanthrene-d10	11.11	188	46589	4.00	ppb	0.02
21) Chrysene-d12	13.92	240	7354	4.00	ppb	0.02
26) Perylene-d12	16.38	264	4017	4.00	ppb	0.02

System Monitoring Compounds						
5) Nitrobenzene-d5	6.42	82	304	0.11	ppb	-0.14
Spiked Amount 5.000	Range 17 - 131		Recovery	=	2.20%#	
10) 2-Fluorobiphenyl	8.90	172	15108	0.58	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery	=	11.60%#	
16) 2,4,6-Tribromophenol	10.47	330	637m	0.41	ppb	0.07
Spiked Amount 10.000	Range 10 - 123		Recovery	=	4.10%#	
23) Terphenyl-d14	12.69	244	660	0.42	ppb	0.03
Spiked Amount 5.000	Range 10 - 160		Recovery	=	8.40%#	

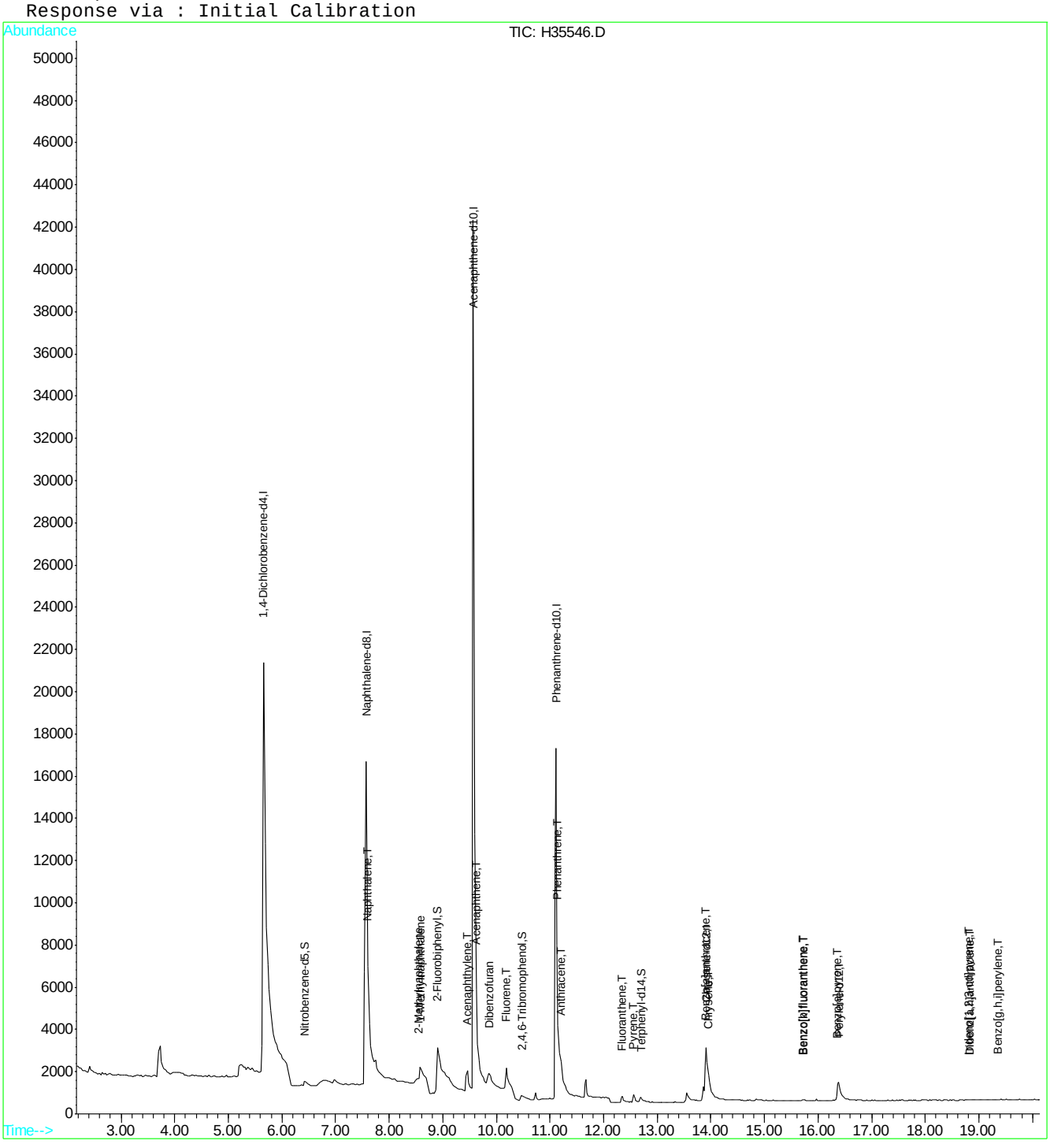
Target Compounds							Qvalue
6) Naphthalene	7.60	128	2070	0.13	ppb	#	81
7) 2-Methylnaphthalene	8.55	142	608m	0.04	ppb		
8) 1-Methylnaphthalene	8.58	142	1745m	0.10	ppb		
11) Acenaphthylene	9.46	152	2678	0.12	ppb		97
12) Acenaphthene	9.62	153	2119	0.11	ppb	#	55
13) Dibenzofuran	9.86	168	2755	0.12	ppb		97
14) Fluorene	10.19	166	1234	0.09	ppb		87
18) Phenanthrene	11.13	178	2381	0.11	ppb	#	83
19) Anthracene	11.21	178	2774	0.12	ppb	#	89
20) Fluoranthene	12.34	202	1011	0.06	ppb		96
22) Pyrene	12.56	202	1578	0.17	ppb		95
24) Benzo[a]anthracene	13.90	228	159m	0.07	ppb		
25) Chrysene	13.95	228	401m	0.13	ppb		
27) Benzo[b]fluoranthene	15.71	252	66m	0.05	ppb		
28) Benzo[k]fluoranthene	15.73	252	124m	0.06	ppb		
29) Benzo[a]pyrene	16.37	252	94	0.07	ppb		93
30) Indeno[1,2,3-cd]pyrene	18.81	276	54	0.08	ppb	#	50
31) Dibenz[a,h]anthracene	18.82	278	57	0.12	ppb	#	87
32) Benzo[g,h,i]perylene	19.36	276	49	0.08	ppb	#	1

(#) = qualifier out of range (m) = manual integration
H35546.D H10269SP.M Tue Oct 27 14:20:51 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: H10229SP.RES

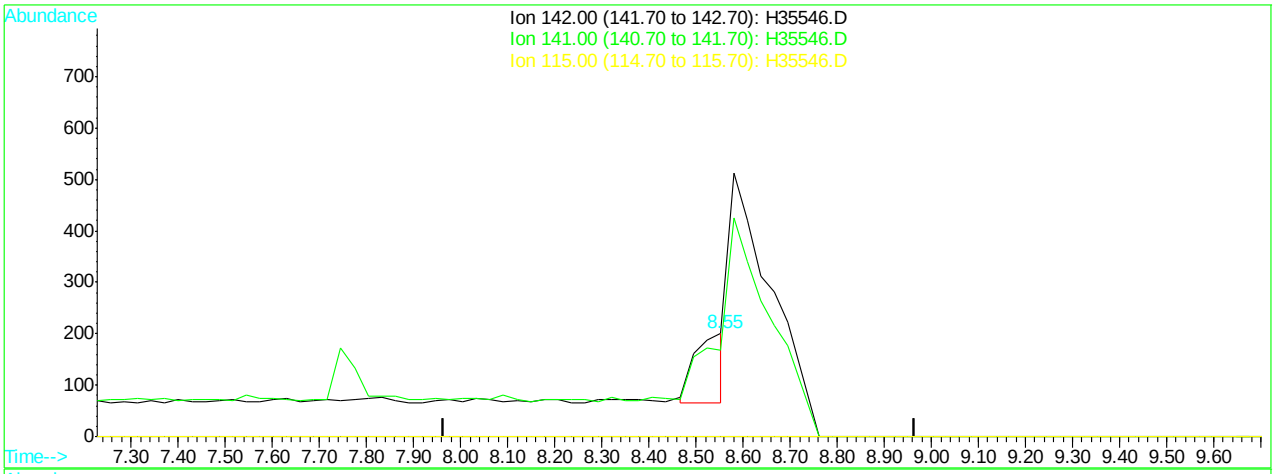
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

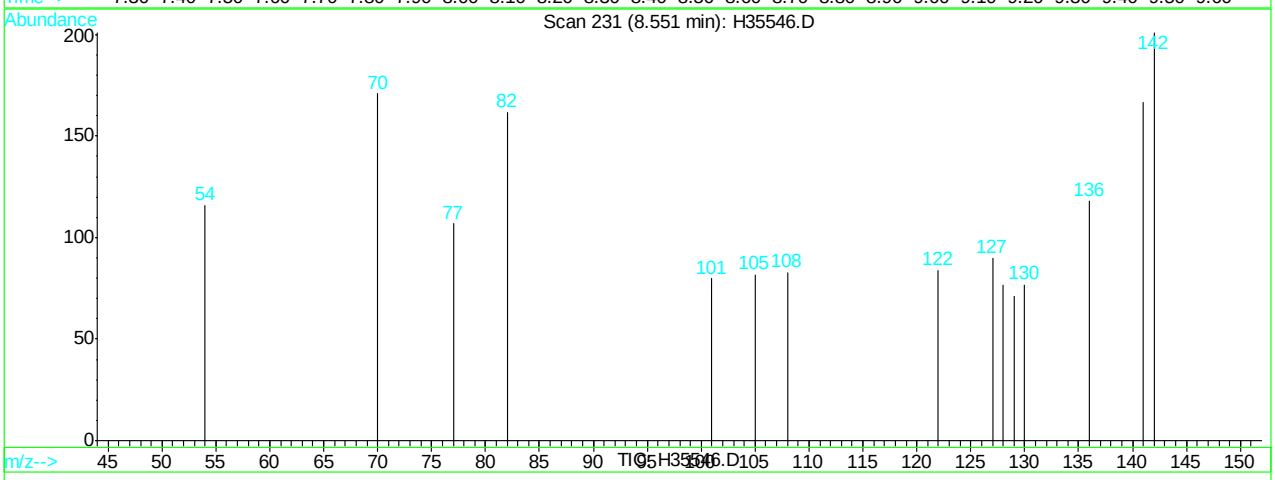


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.55min 0.04ppb m

response 608

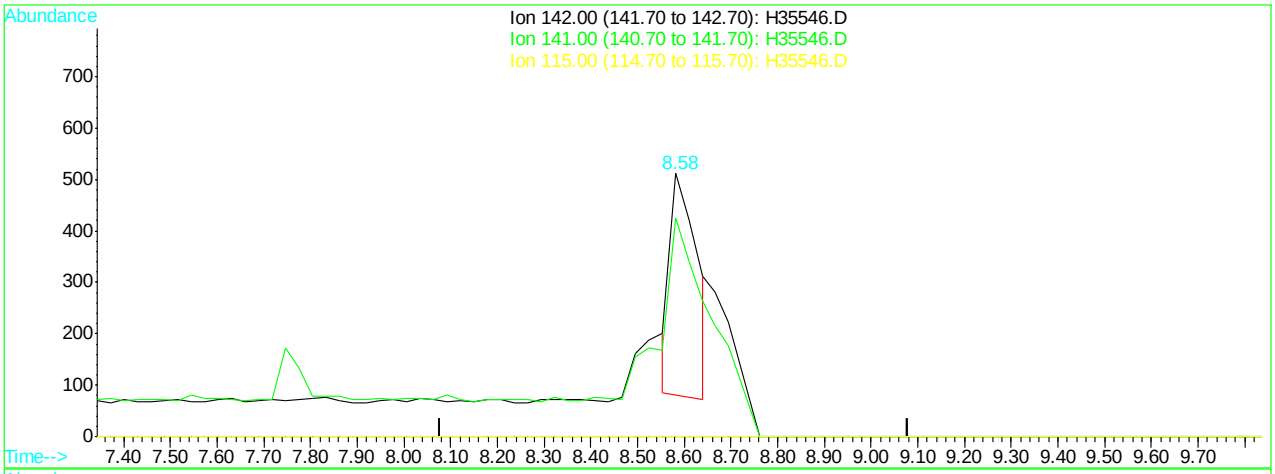
Ion	Exp%	Act%
142.00	100	100
141.00	53.70	629.28#
115.00	0.00	0.00
0.00	0.00	0.00

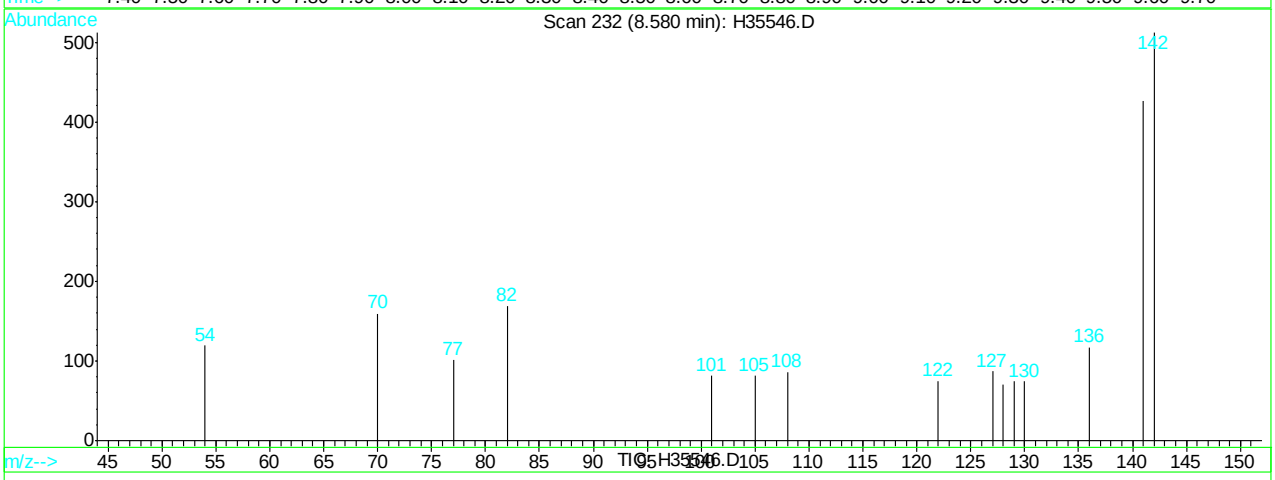
H35546.D H10269SP.M Tue Oct 27 14:21:32 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.58min 0.10ppb m

response 1745

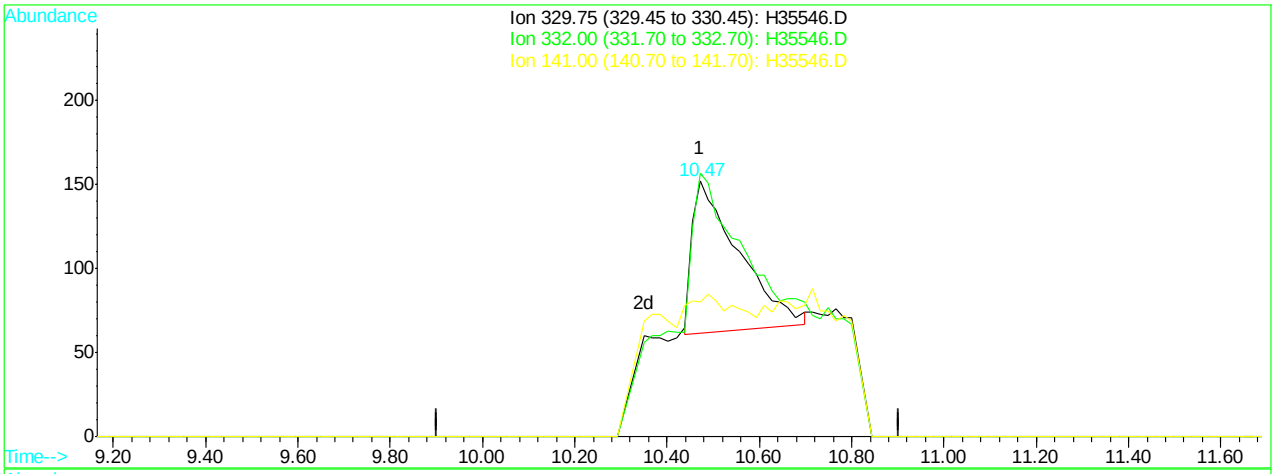
Ion	Exp%	Act%
142.00	100	100
141.00	90.30	219.26#
115.00	0.00	0.00
0.00	0.00	0.00

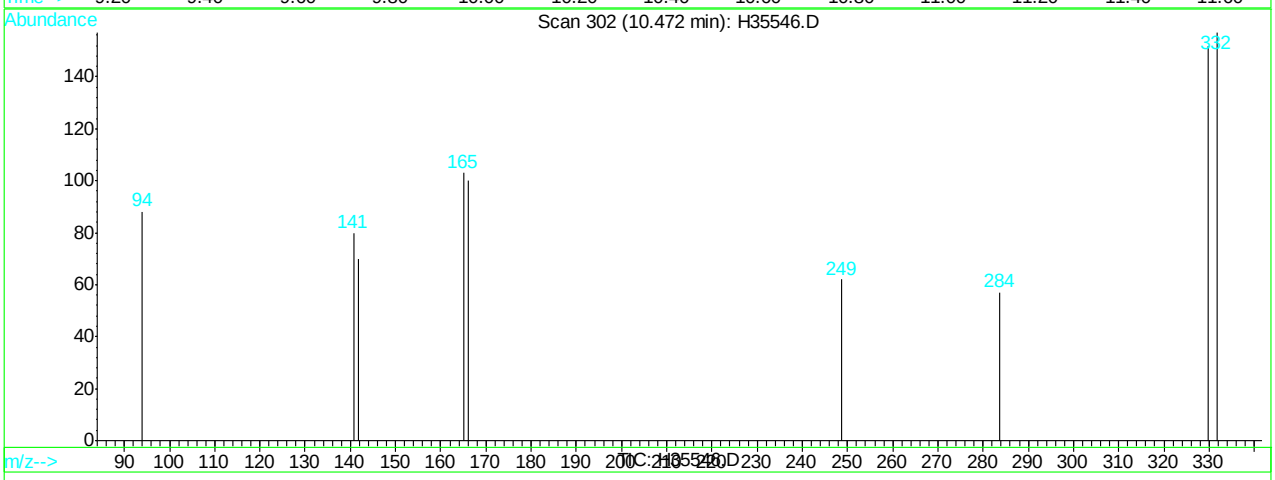
H35546.D H10269SP.M Tue Oct 27 14:21:36 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(16) 2,4,6-Tribromophenol (S)

10.47min 0.41ppb m

response 637

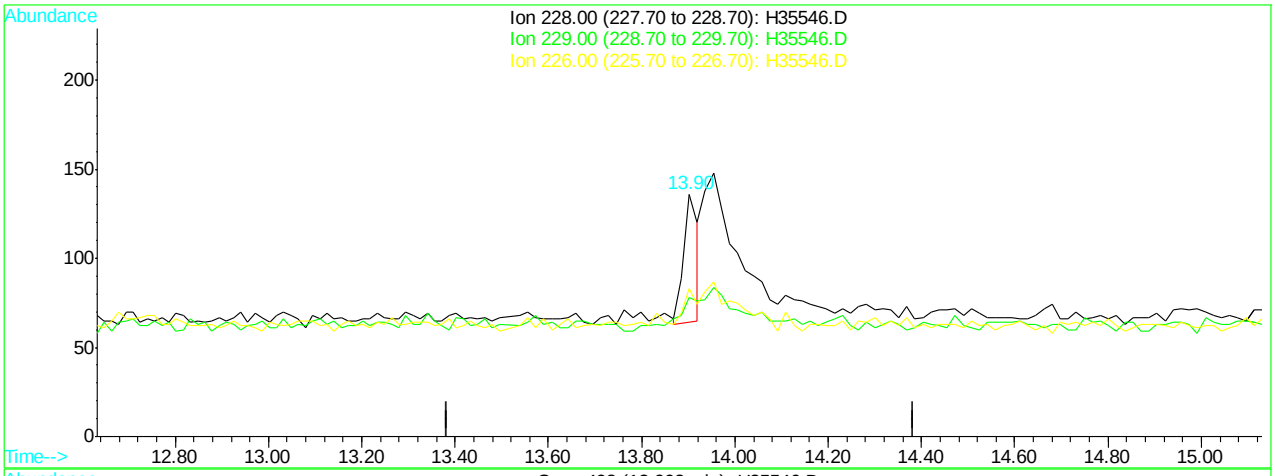
Ion	Exp%	Act%
329.75	100	100
332.00	98.20	390.42#
141.00	18.20	0.00#
0.00	0.00	0.00

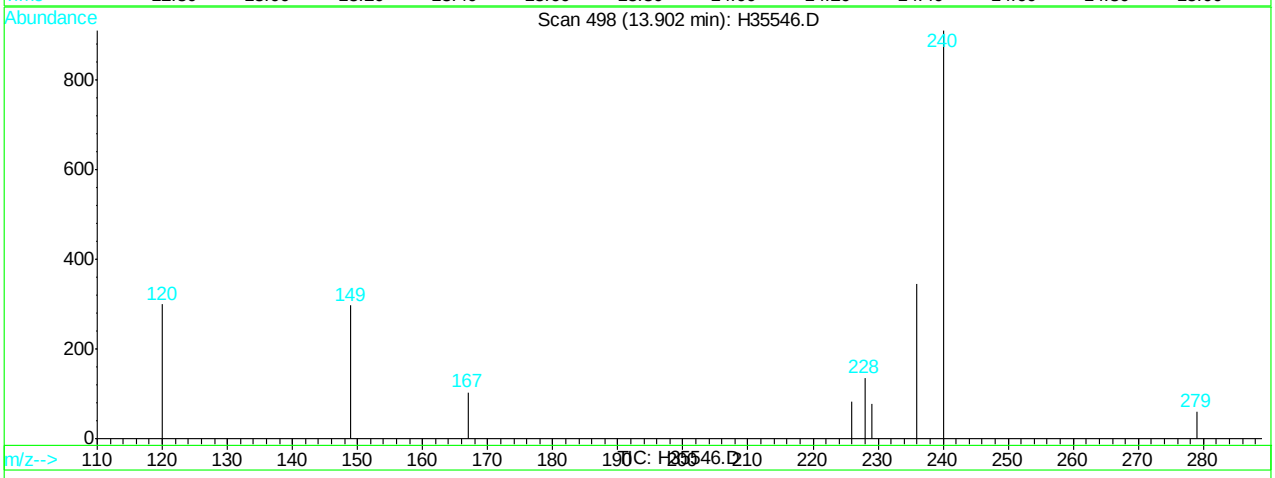
H35546.D H10269SP.M Tue Oct 27 14:21:41 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.90min 0.07ppb m

response 159

Ion	Exp%	Act%
228.00	100	100
229.00	19.00	57.35#
226.00	28.70	61.03#
0.00	0.00	0.00

H35546.D H10269SP.M Tue Oct 27 14:21:48 2009

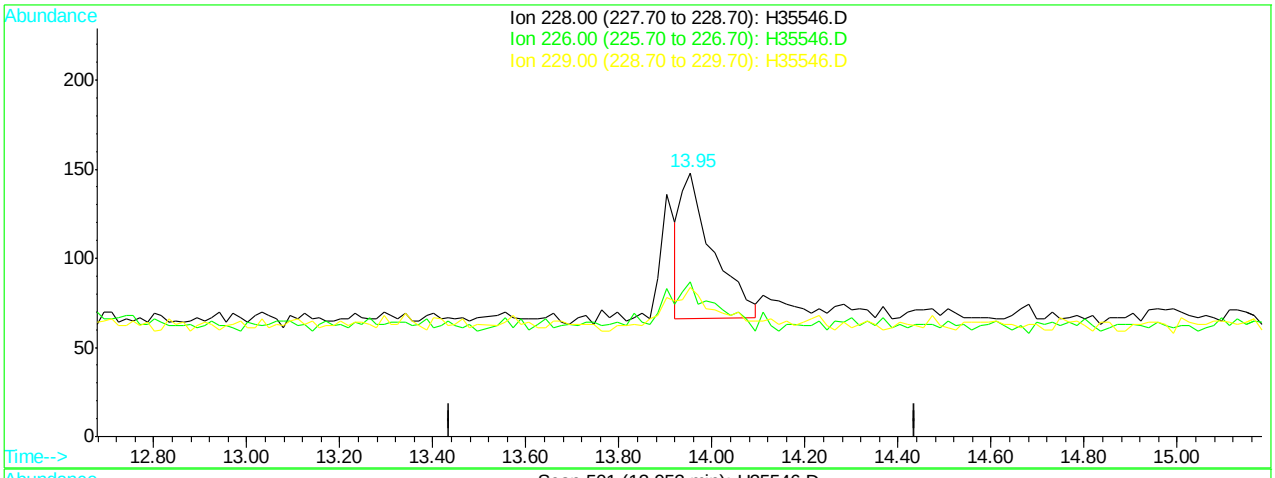
8.6.9.4

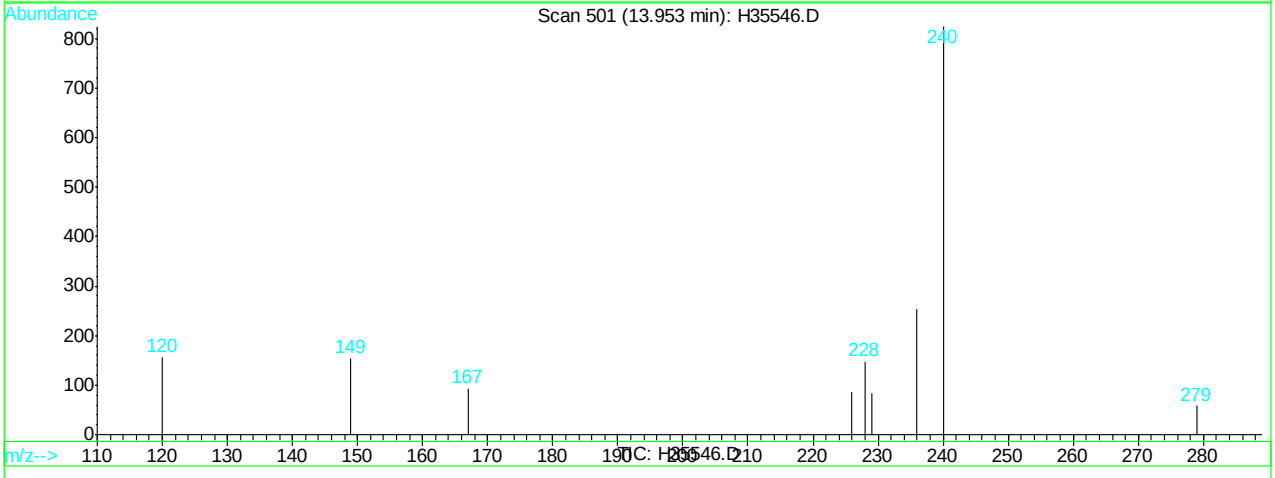
8

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.95min 0.13ppb m

response 401

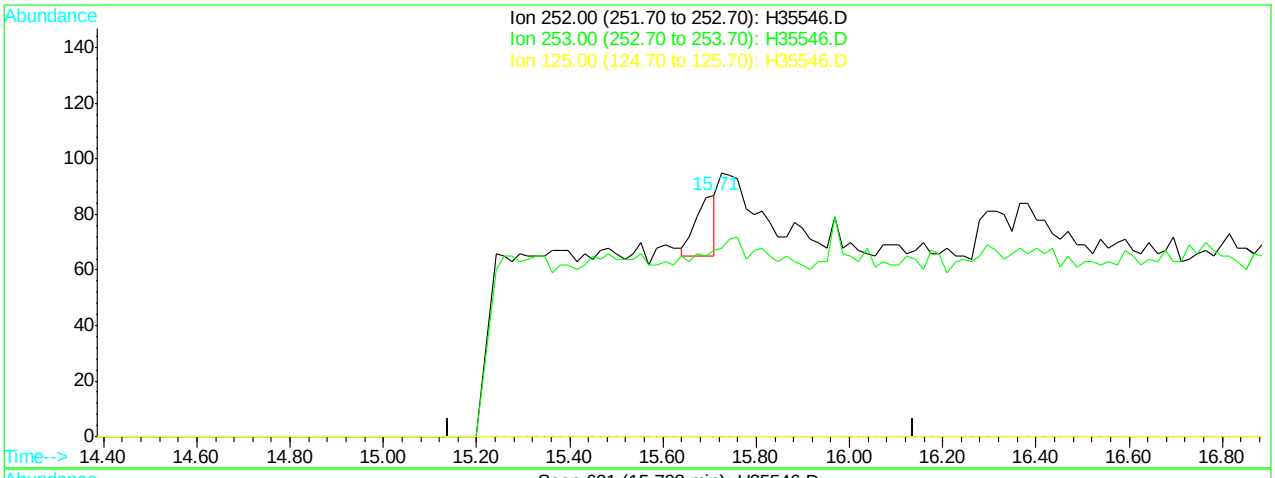
Ion	Exp%	Act%
228.00	100	100
226.00	29.20	58.78#
229.00	18.40	56.76#
0.00	0.00	0.00

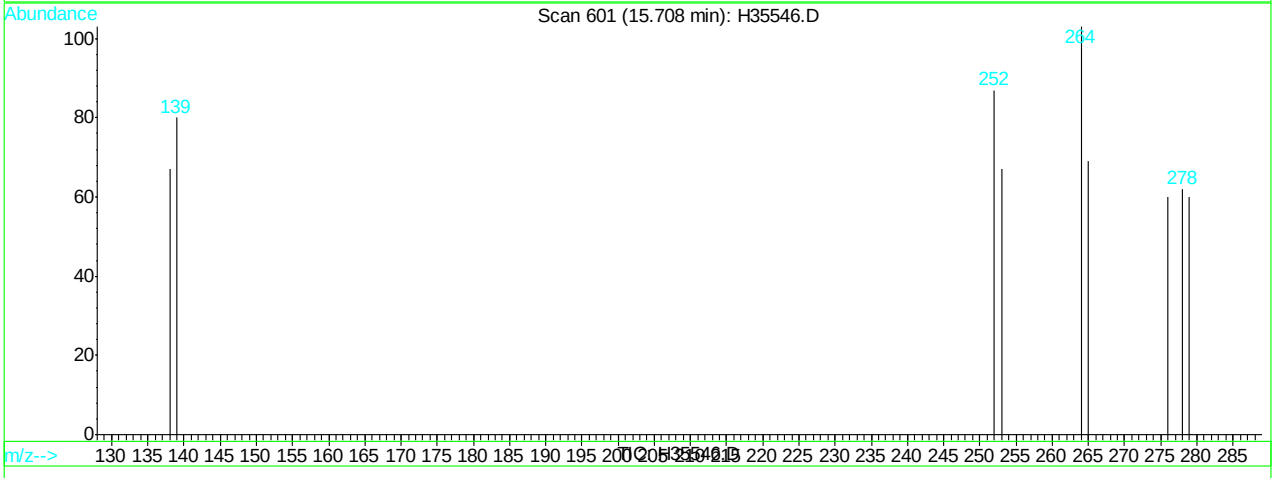
H35546.D H10269SP.M Tue Oct 27 14:21:51 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.71min 0.05ppb m

response 66

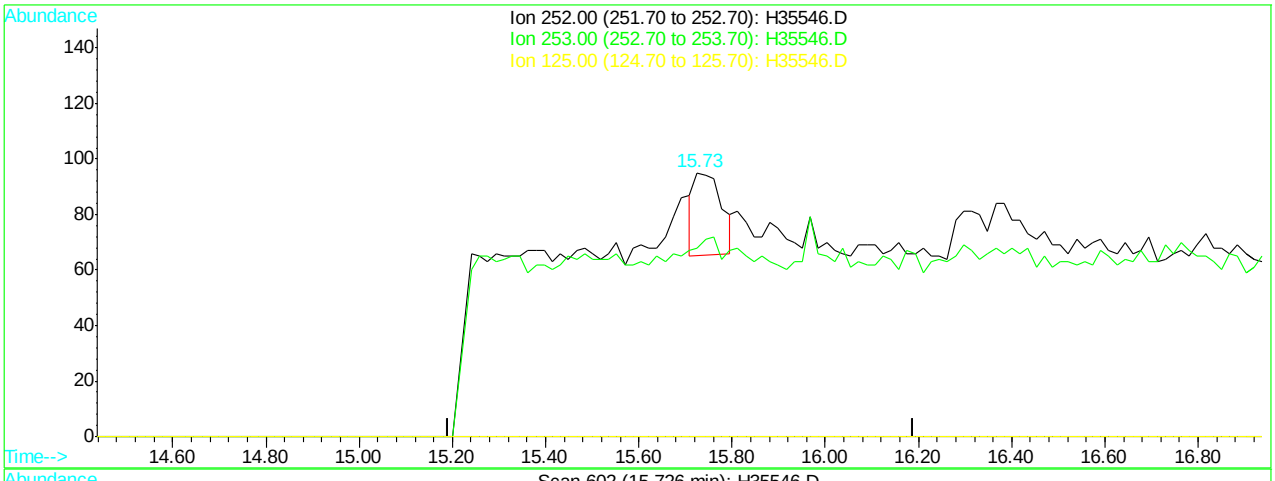
Ion	Exp%	Act%
252.00	100	100
253.00	26.80	77.01#
125.00	0.00	0.00
0.00	0.00	0.00

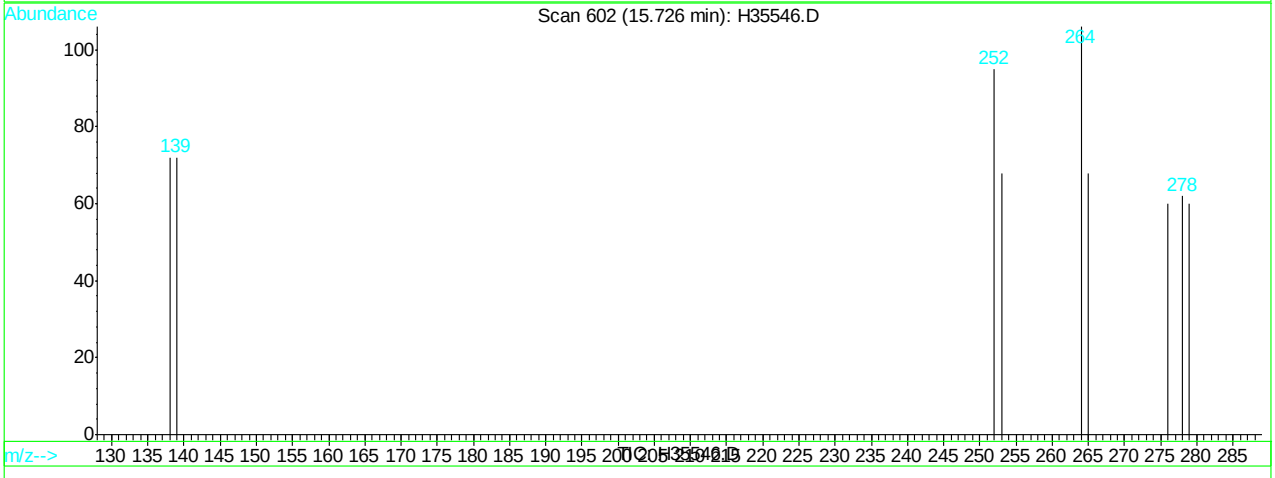
H35546.D H10269SP.M Tue Oct 27 14:21:57 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35546.D Vial: 4
Acq On : 22 Oct 2009 12:27 pm Operator: sheilac
Sample : ic1919-0.1 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.73min 0.06ppb m

response 124

Ion	Exp%	Act%
252.00	100	100
253.00	26.80	71.58#
125.00	0.00	0.00
0.00	0.00	0.00

H35546.D H10269SP.M Tue Oct 27 14:22:01 2009

8.6.9.7

8

ACCUTEST Laboratories T39423

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 14:35:11 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	64635	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	44876	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	37893	4.00	ppb	0.00
15) Phenanthrene-d10	11.11	188	47945	4.00	ppb	0.02
21) Chrysene-d12	13.92	240	7690	4.00	ppb	0.02
26) Perylene-d12	16.38	264	3914	4.00	ppb	0.02
System Monitoring Compounds						
5) Nitrobenzene-d5	6.71	82	2208	0.97	ppb	0.14
Spiked Amount 5.000	Range 17 - 131		Recovery = 19.40%			
10) 2-Fluorobiphenyl	8.90	172	24505	0.79	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery = 15.80%			
16) 2,4,6-Tribromophenol	10.46	330	1639m	1.05	ppb	0.05
Spiked Amount 10.000	Range 10 - 123		Recovery = 10.50%			
23) Terphenyl-d14	12.70	244	1244	0.77	ppb	0.03
Spiked Amount 5.000	Range 10 - 160		Recovery = 15.40%			

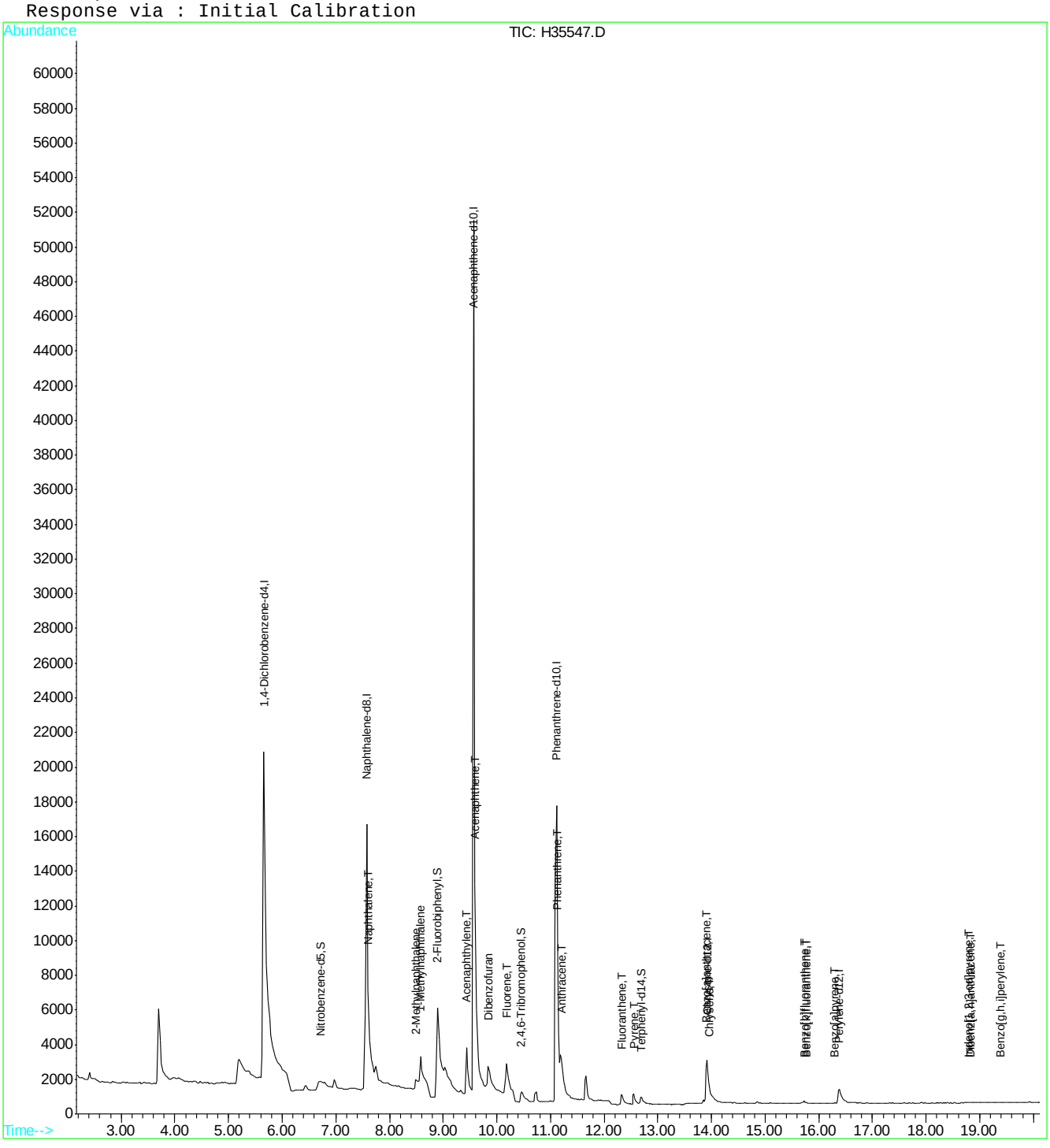
Target Compounds							Qvalue
6) Naphthalene	7.60	128	3597	0.23	ppb	#	81
7) 2-Methylnaphthalene	8.49	142	1477m	0.10	ppb		
8) 1-Methylnaphthalene	8.58	142	3464m	0.21	ppb		
11) Acenaphthylene	9.43	152	5670	0.22	ppb		90
12) Acenaphthene	9.60	153	3685	0.16	ppb		93
13) Dibenzofuran	9.84	168	5080	0.18	ppb		96
14) Fluorene	10.19	166	2676	0.17	ppb		90
18) Phenanthrene	11.13	178	4217	0.18	ppb	#	85
19) Anthracene	11.21	178	5275	0.21	ppb	#	89
20) Fluoranthene	12.33	202	1943	0.12	ppb		98
22) Pyrene	12.56	202	2119	0.20	ppb	#	89
24) Benzo[a]anthracene	13.90	228	257m	0.11	ppb		
25) Chrysene	13.95	228	679m	0.21	ppb		
27) Benzo[b]fluoranthene	15.74	252	228m	0.18	ppb		
28) Benzo[k]fluoranthene	15.76	252	85m	0.04	ppb		
29) Benzo[a]pyrene	16.30	252	244m	0.19	ppb		
30) Indeno[1,2,3-cd]pyrene	18.79	276	54	0.08	ppb		95
31) Dibenz[a,h]anthracene	18.82	278	100	0.20	ppb	#	72
32) Benzo[g,h,i]perylene	19.39	276	113	0.18	ppb	#	53

(#) = qualifier out of range (m) = manual integration
H35547.D H10269SP.M Tue Oct 27 14:22:07 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: H10229SP.RES

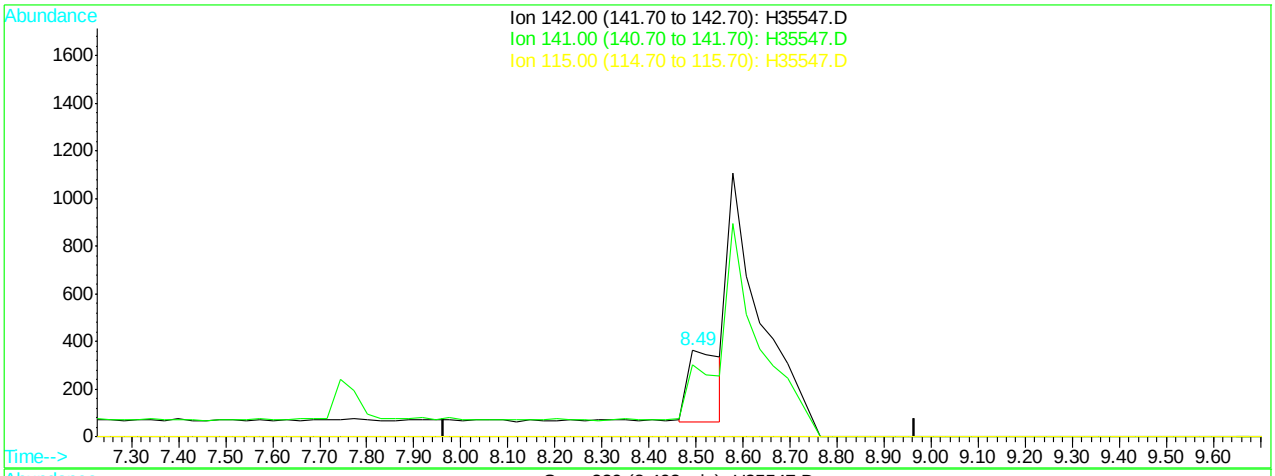
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

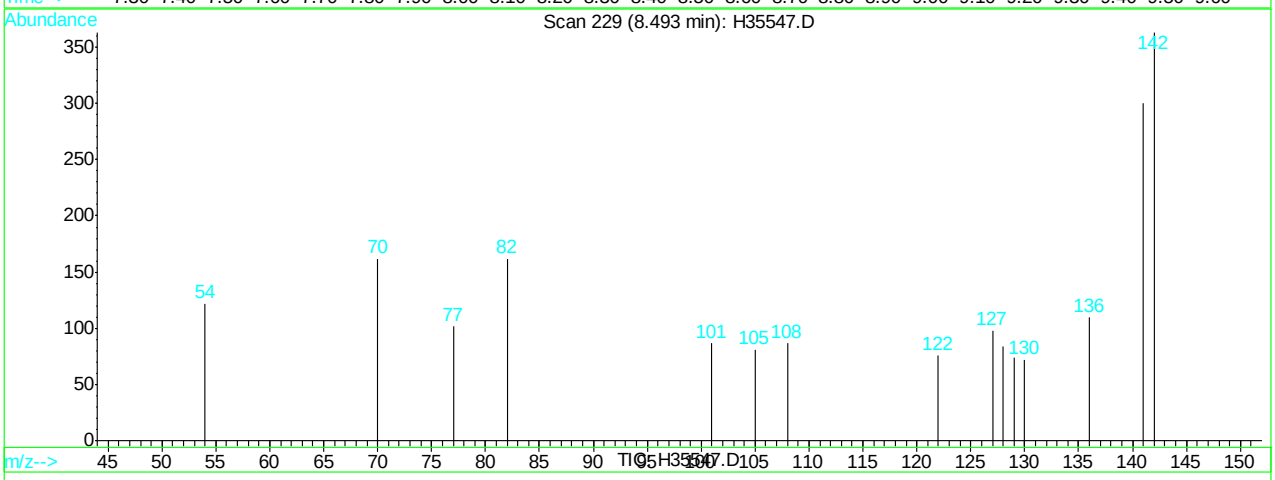


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.49min 0.10ppb m

response 1477

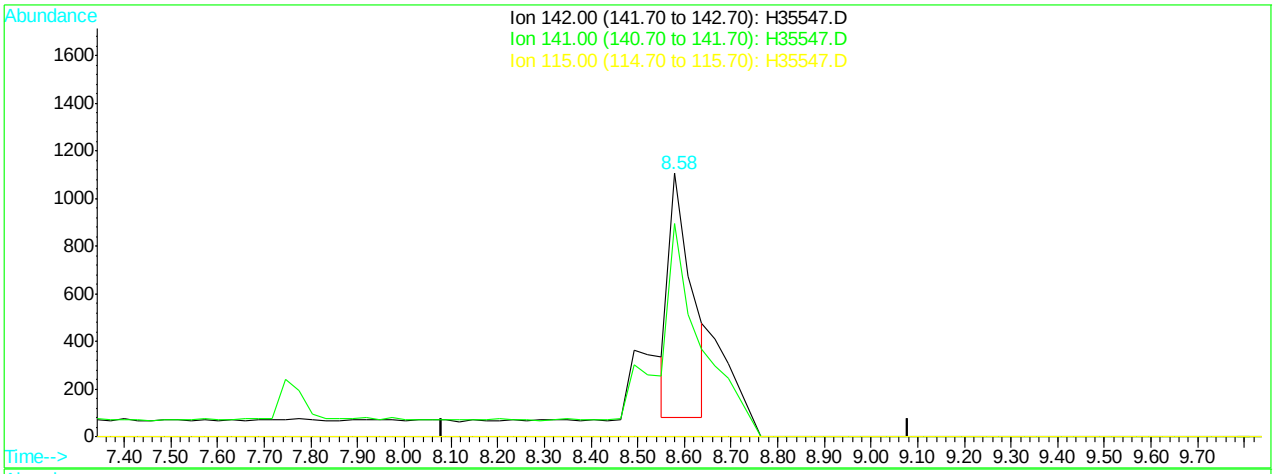
Ion	Exp%	Act%
142.00	100	100
141.00	53.70	421.26#
115.00	0.00	0.00
0.00	0.00	0.00

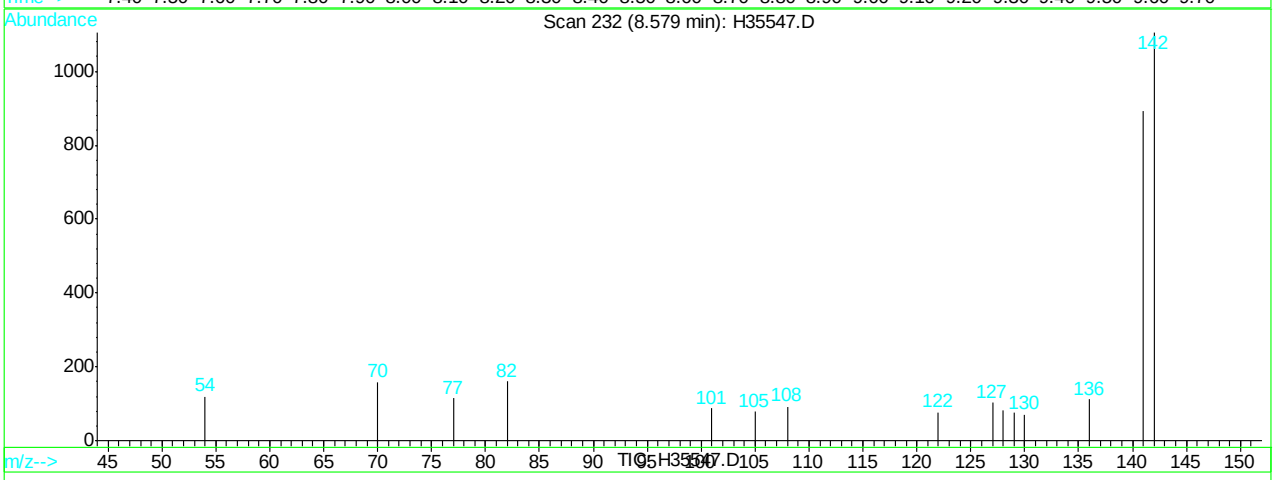
H35547.D H10269SP.M Tue Oct 27 14:25:03 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.58min 0.21ppb m

response 3464

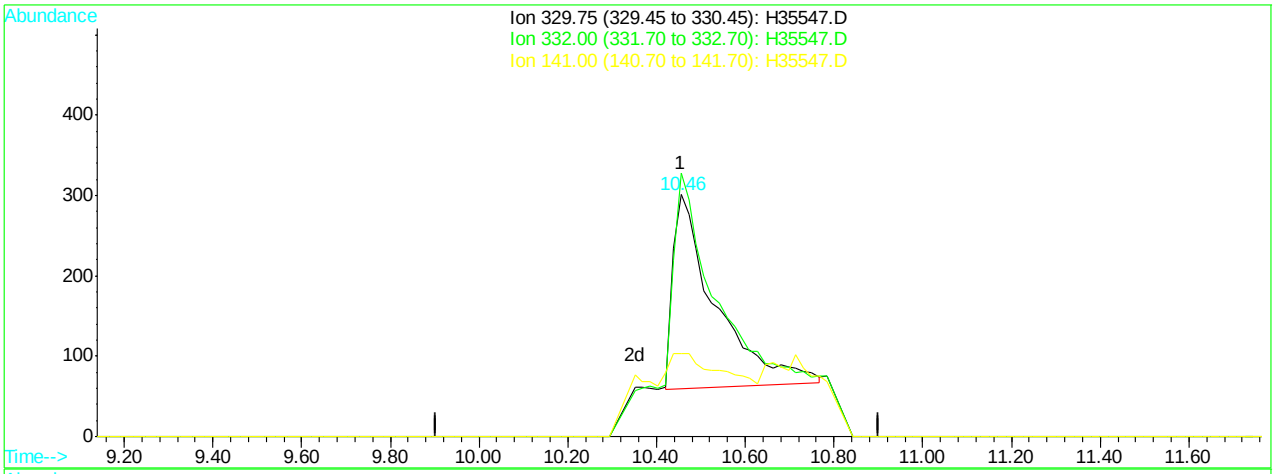
Ion	Exp%	Act%
142.00	100	100
141.00	90.30	179.62#
115.00	0.00	0.00
0.00	0.00	0.00

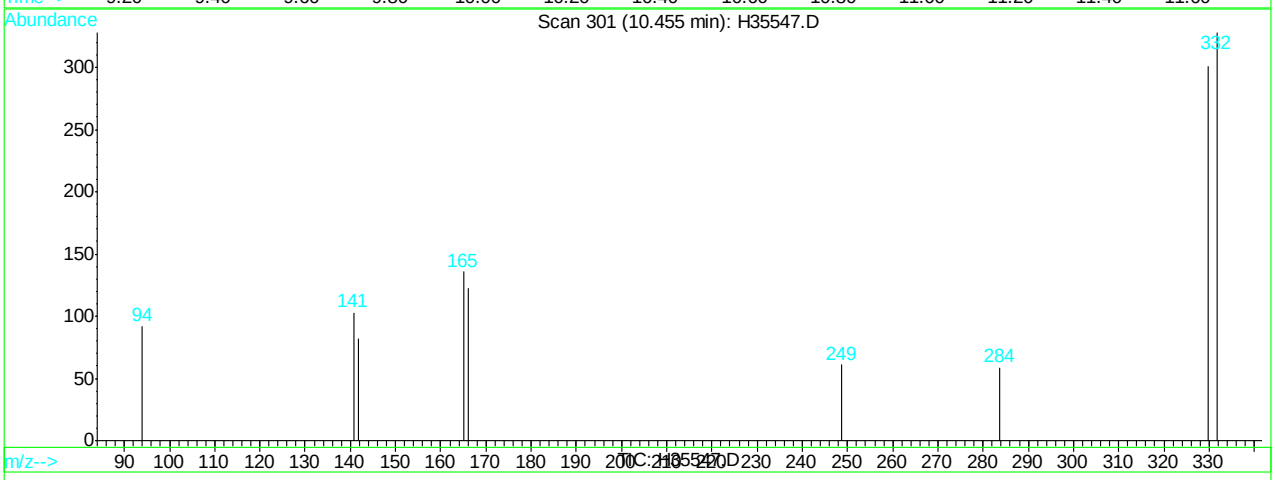
H35547.D H10269SP.M Tue Oct 27 14:25:06 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(16) 2,4,6-Tribromophenol (S)

10.46min 1.05ppb m

response 1639

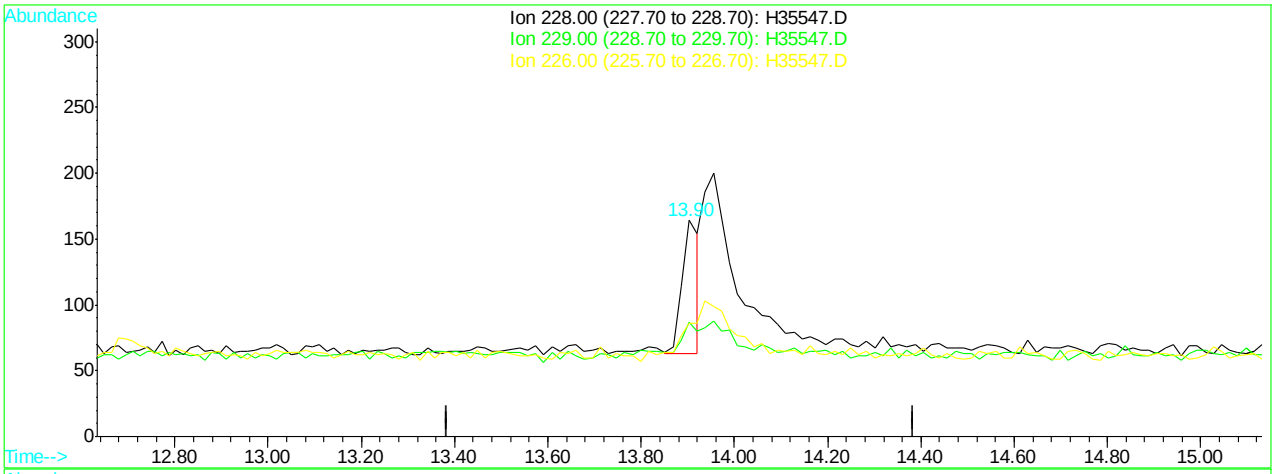
Ion	Exp%	Act%
329.75	100	100
332.00	98.20	246.67#
141.00	18.20	36.12#
0.00	0.00	0.00

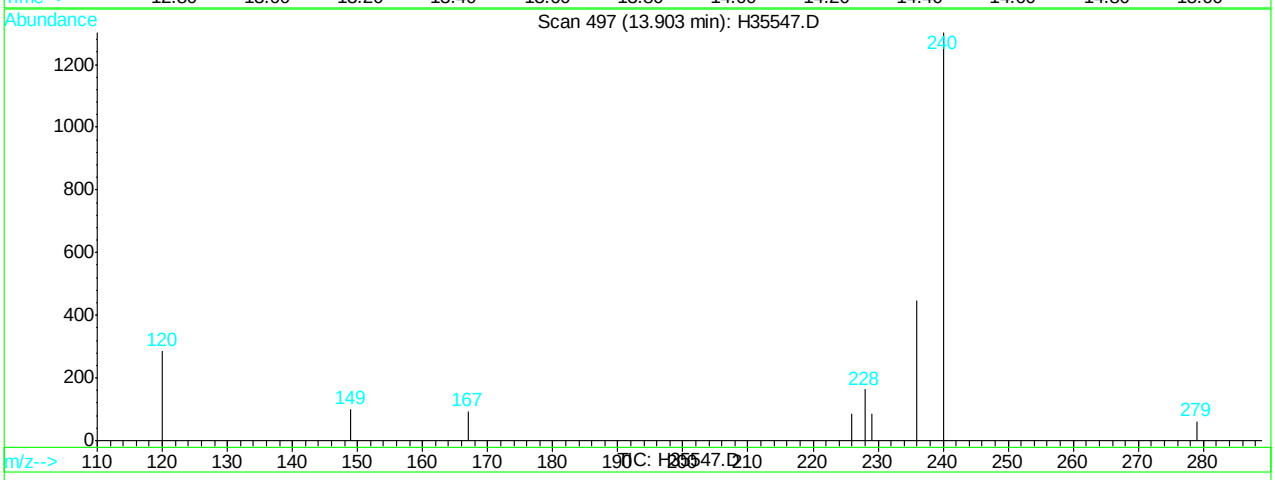
H35547.D H10269SP.M Tue Oct 27 14:25:10 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.90min 0.11ppb m

response 257

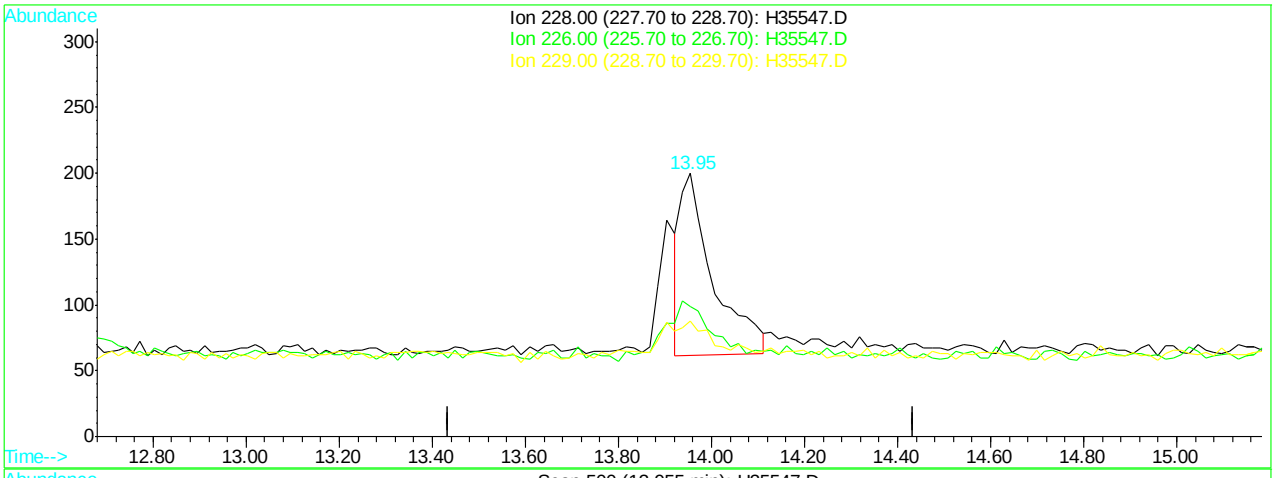
Ion	Exp%	Act%
228.00	100	100
229.00	19.00	53.05#
226.00	28.70	52.44#
0.00	0.00	0.00

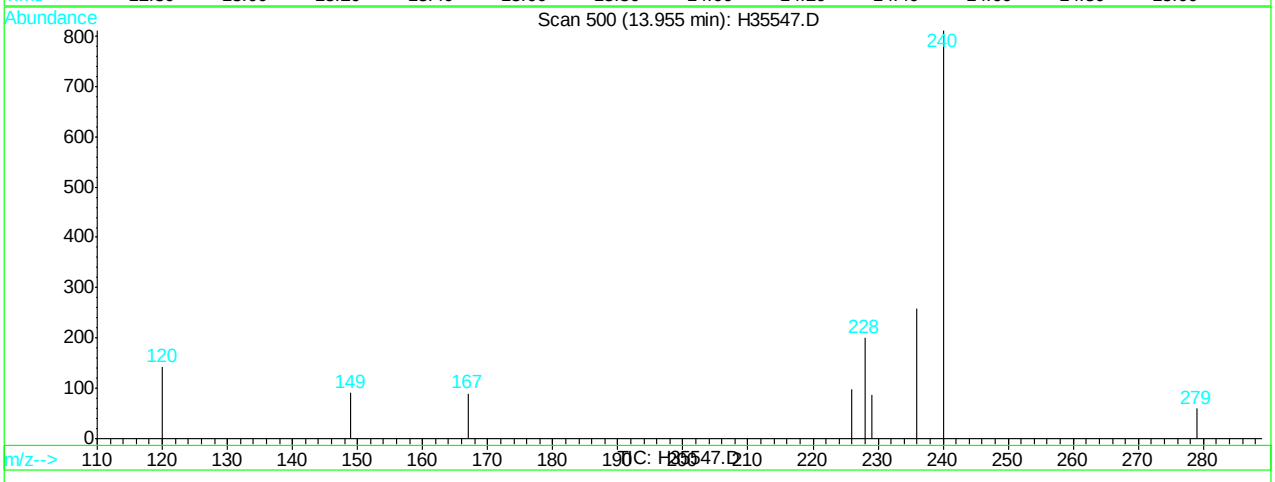
H35547.D H10269SP.M Tue Oct 27 14:25:15 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.95min 0.21ppb m

response 679

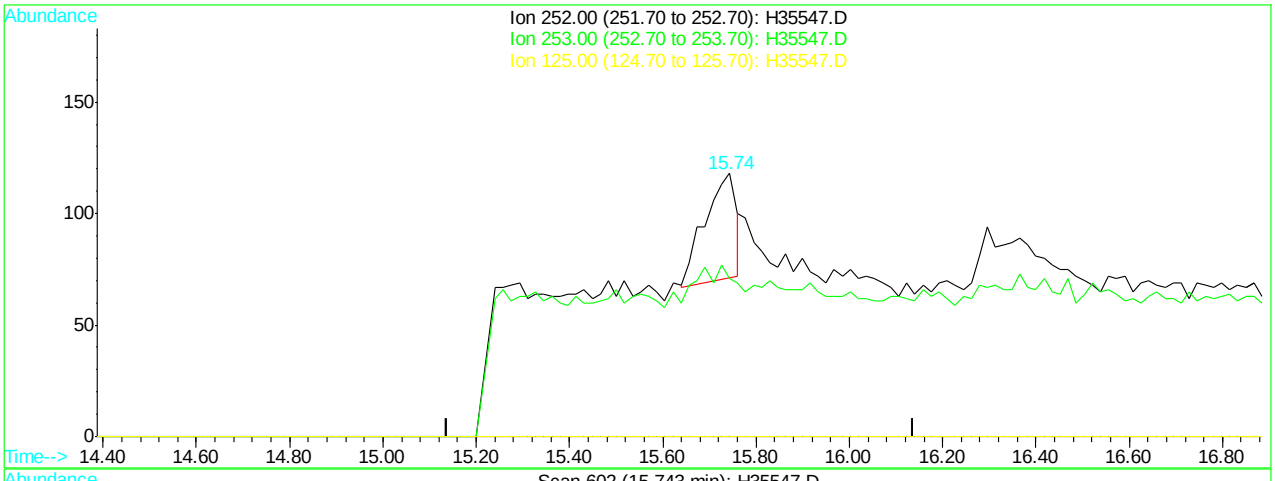
Ion	Exp%	Act%
228.00	100	100
226.00	29.20	49.50#
229.00	18.40	44.00#
0.00	0.00	0.00

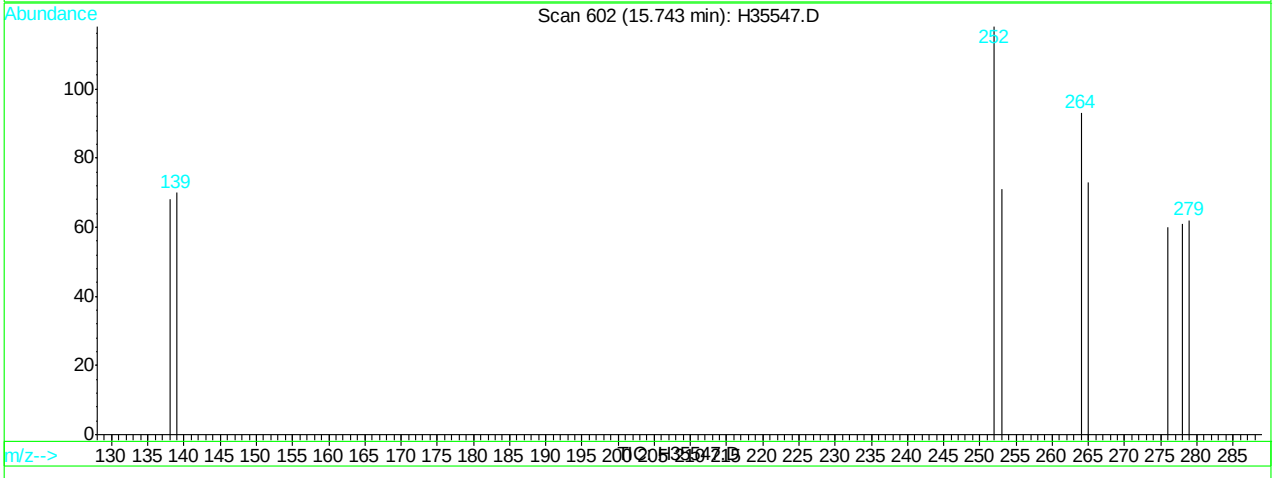
H35547.D H10269SP.M Tue Oct 27 14:25:19 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.74min 0.18ppb m

response 228

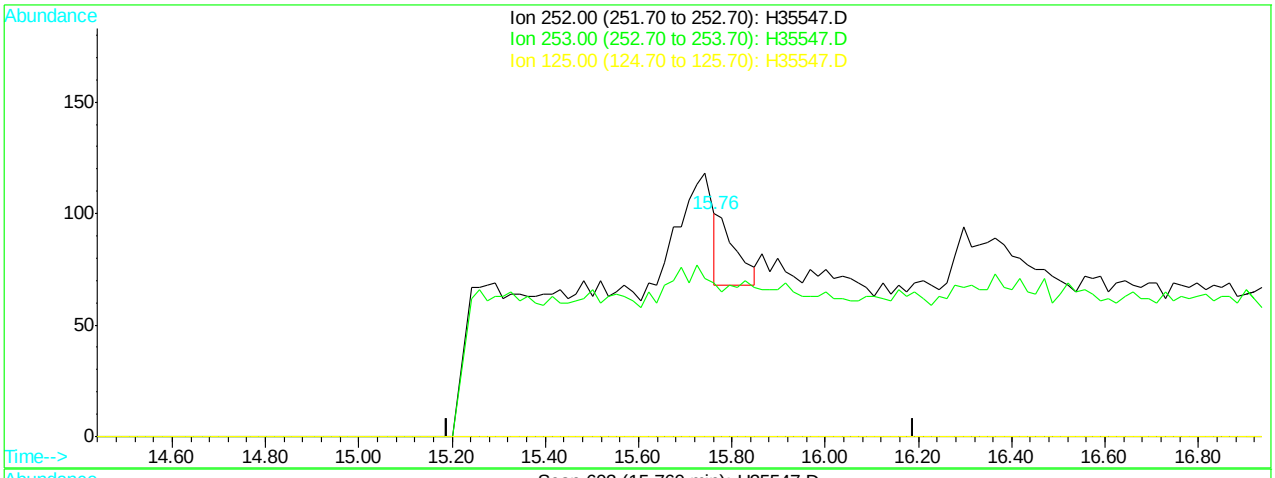
Ion	Exp%	Act%
252.00	100	100
253.00	26.80	60.17#
125.00	0.00	0.00
0.00	0.00	0.00

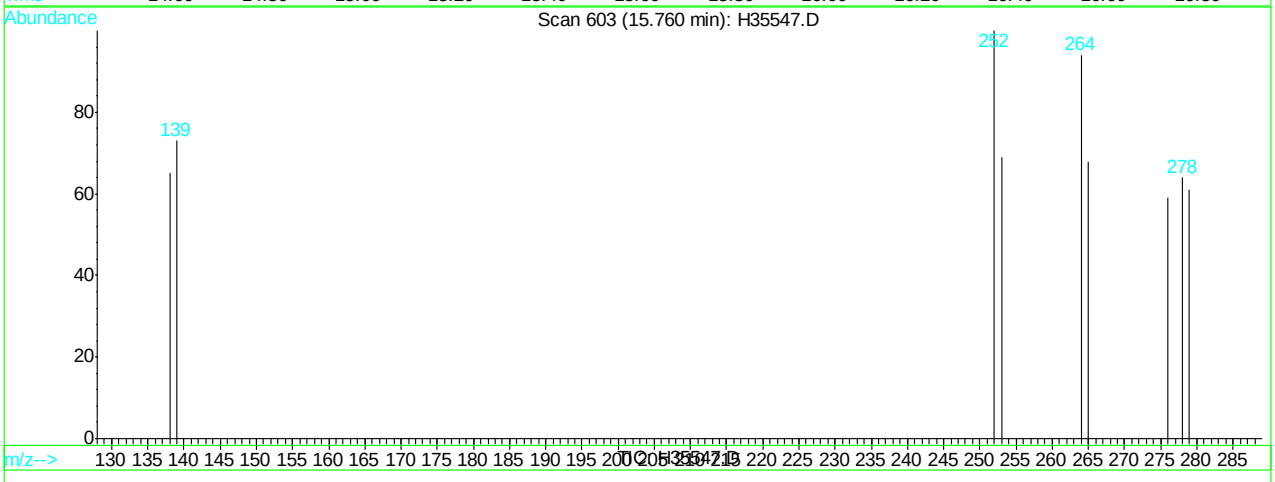
H35547.D H10269SP.M Tue Oct 27 14:25:25 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.76min 0.04ppb m

response 85

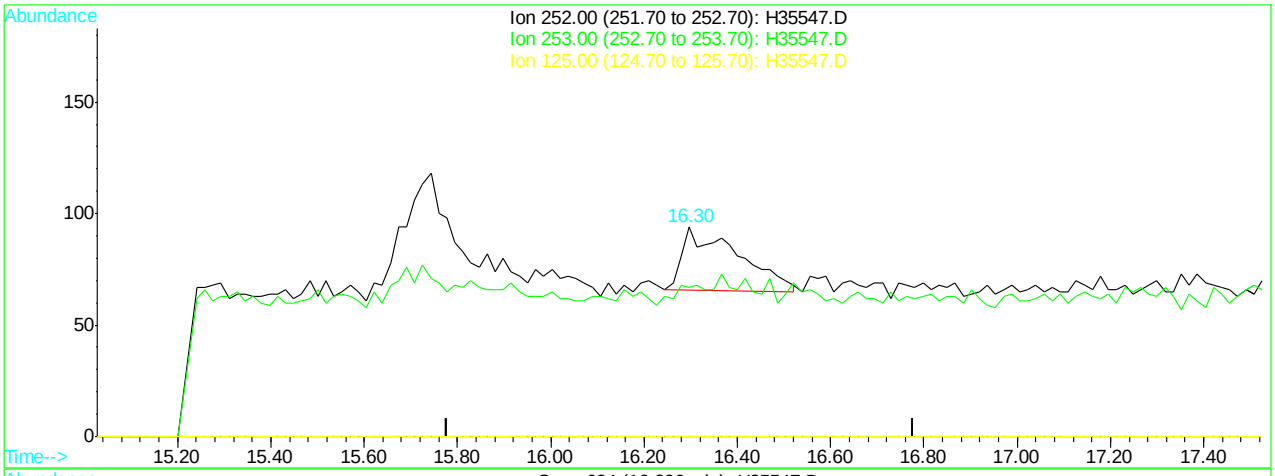
Ion	Exp%	Act%
252.00	100	100
253.00	26.80	69.00#
125.00	0.00	0.00
0.00	0.00	0.00

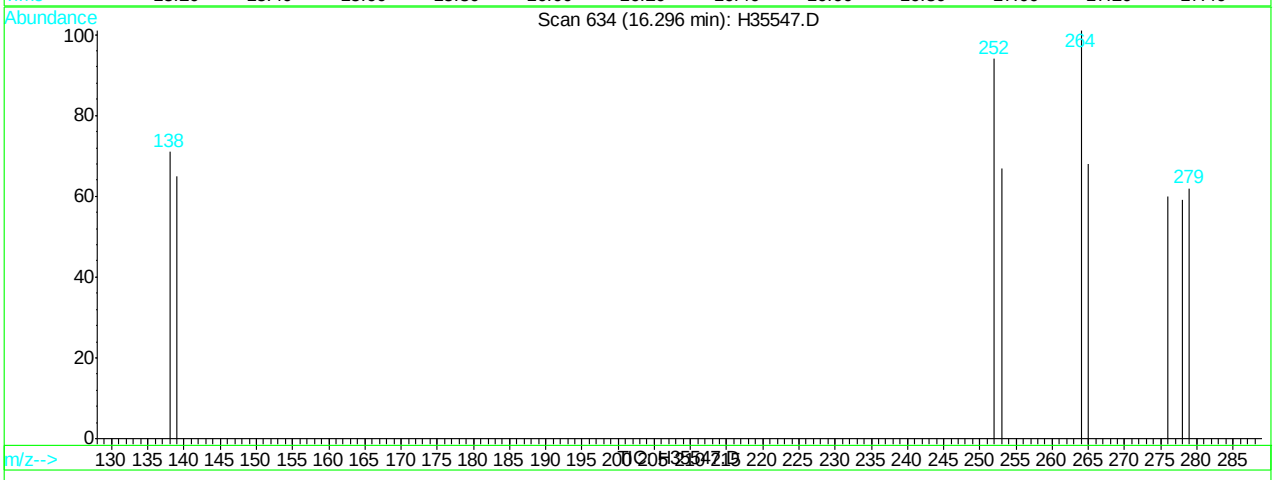
H35547.D H10269SP.M Tue Oct 27 14:25:28 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35547.D Vial: 5
Acq On : 22 Oct 2009 12:54 pm Operator: sheilac
Sample : ic1919-0.2 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:36 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(29) Benzo[a]pyrene (T)

16.30min 0.19ppb m

response 244

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	71.28#
125.00	0.00	0.00
0.00	0.00	0.00

H35547.D H10269SP.M Tue Oct 27 14:25:34 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35548.D Vial: 6
Acq On : 22 Oct 2009 1:24 pm Operator: sheilac
Sample : ic1919-10 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:37 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 14:00:47 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	70748	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	40574	4.00	ppb	-0.01
9) Acenaphthene-d10	9.57	164	39899	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	79090	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	15197	4.00	ppb	0.00
26) Perylene-d12	16.37	264	4572	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	224065	128.77	ppb	0.02
Spiked Amount 5.000	Range 17 - 131		Recovery = 2575.40%#			
10) 2-Fluorobiphenyl	8.87	172	1547524	57.57	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 1151.40%#			
16) 2,4,6-Tribromophenol	10.40	330	290251	112.59	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1125.90%#			
23) Terphenyl-d14	12.66	244	262974	91.16	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1823.20%#			

Target Compounds

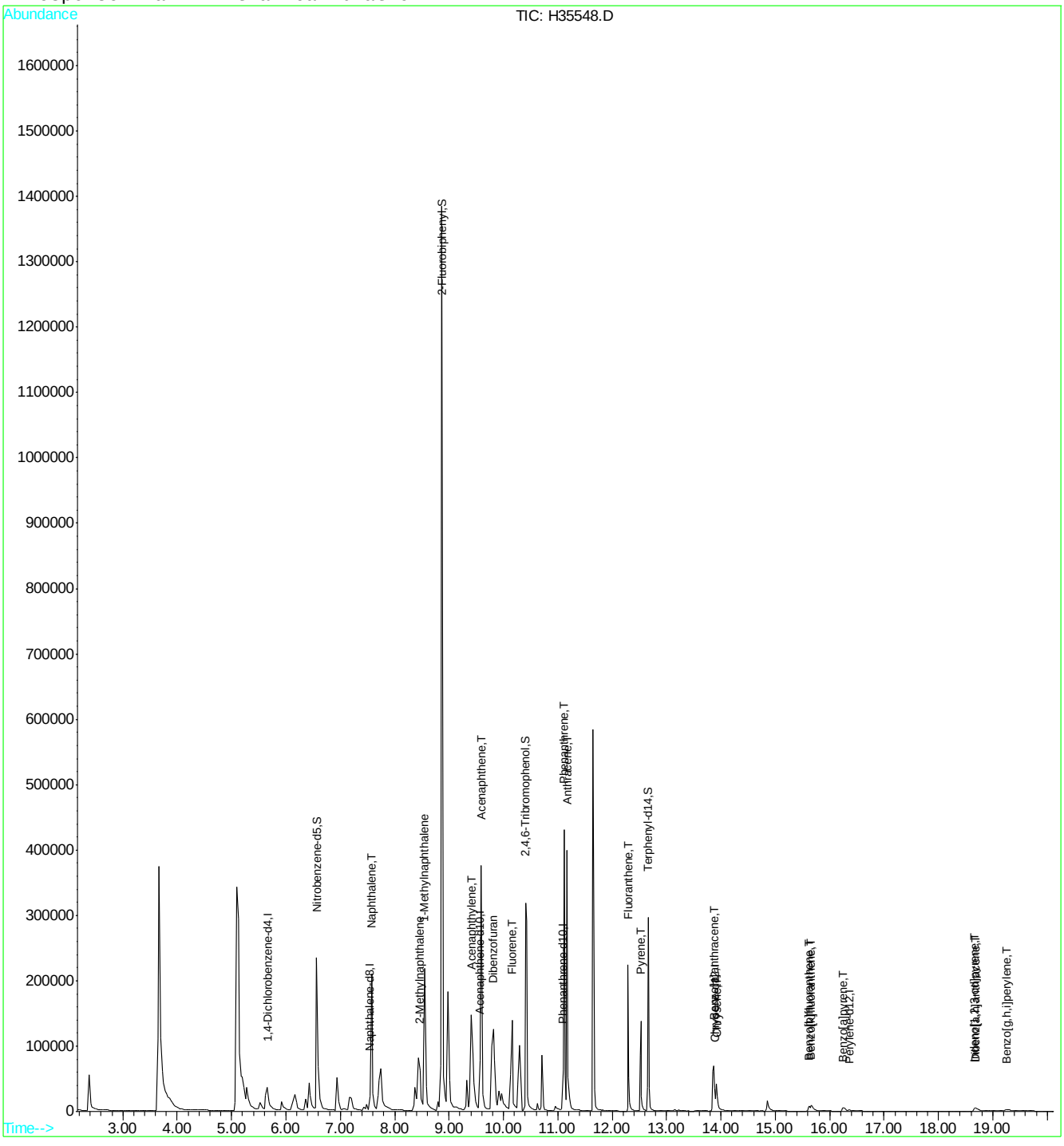
							Qvalue
6) Naphthalene	7.57	128	283047	27.90	ppb		93
7) 2-Methylnaphthalene	8.46	142	151932m	15.00	ppb		
8) 1-Methylnaphthalene	8.55	142	279197	20.95	ppb	#	70
11) Acenaphthylene	9.41	152	240445	10.72	ppb		92
12) Acenaphthene	9.60	153	247852	10.87	ppb	#	76
13) Dibenzofuran	9.81	168	192973	10.29	ppb	#	79
14) Fluorene	10.16	166	129012	12.36	ppb		93
18) Phenanthrene	11.11	178	393852	10.36	ppb		96
19) Anthracene	11.17	178	407363	10.34	ppb		99
20) Fluoranthene	12.29	202	269709	8.00	ppb		99
22) Pyrene	12.53	202	228784	16.69	ppb		100
24) Benzo[a]anthracene	13.87	228	57043	11.56	ppb		95
25) Chrysene	13.92	228	58879	9.69	ppb		97
27) Benzo[b]fluoranthene	15.62	252	17407	10.91	ppb		97
28) Benzo[k]fluoranthene	15.66	252	27336m	10.34	ppb		
29) Benzo[a]pyrene	16.24	252	17990	12.13	ppb		98
30) Indeno[1,2,3-cd]pyrene	18.67	276	13317	19.41	ppb		99
31) Dibenz[a,h]anthracene	18.68	278	9594	21.92	ppb		92
32) Benzo[g,h,i]perylene	19.25	276	11119	18.59	ppb		94

(#) = qualifier out of range (m) = manual integration
H35548.D H10269SP.M Tue Oct 27 14:25:41 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35548.D Vial: 6
Acq On : 22 Oct 2009 1:24 pm Operator: sheilac
Sample : ic1919-10 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:37 2009 Quant Results File: H10229SP.RES

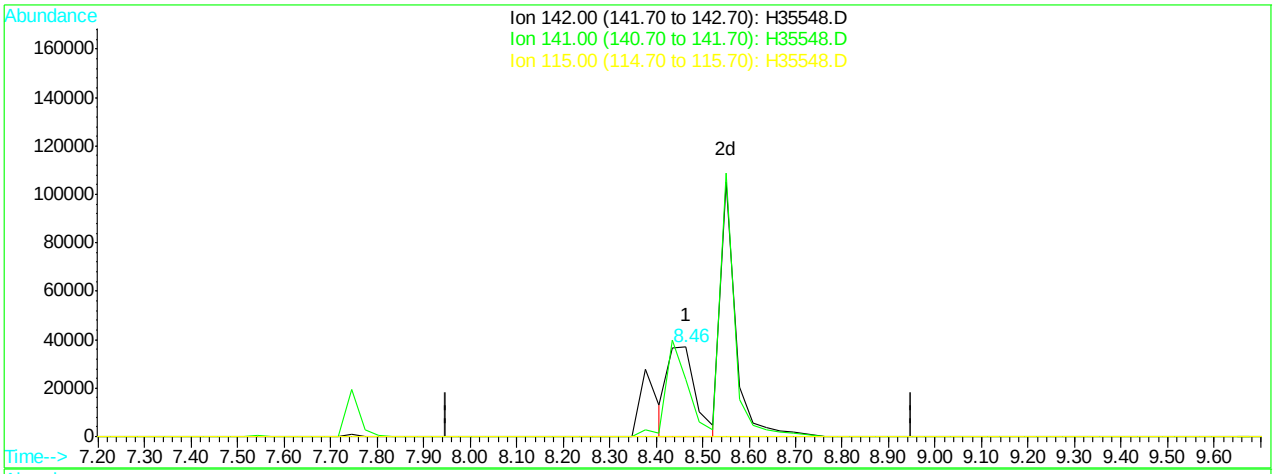
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

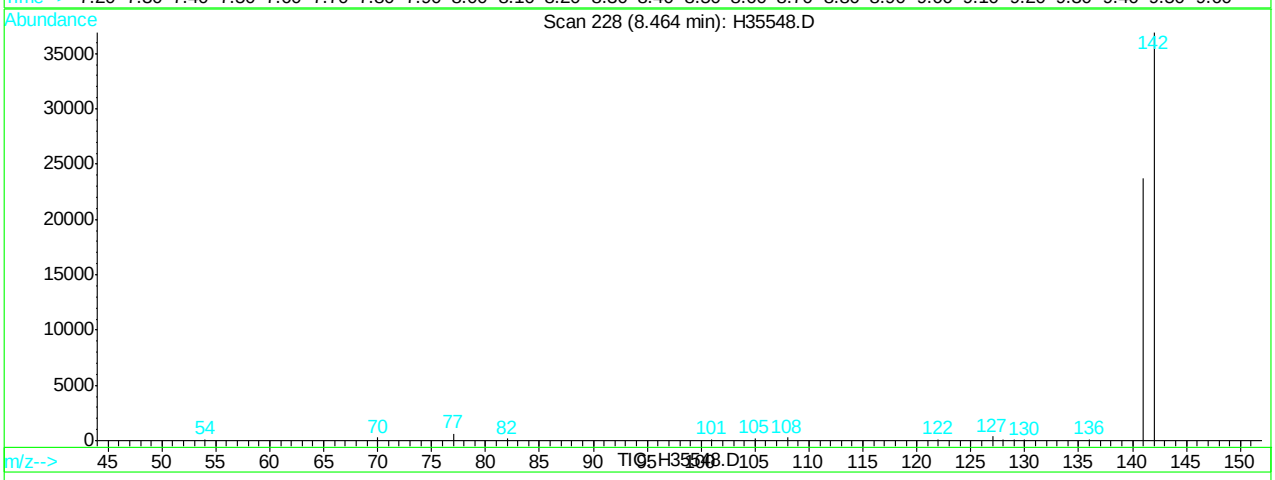


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35548.D Vial: 6
Acq On : 22 Oct 2009 1:24 pm Operator: sheilac
Sample : ic1919-10 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:37 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.46min 15.00ppb m

response 151932

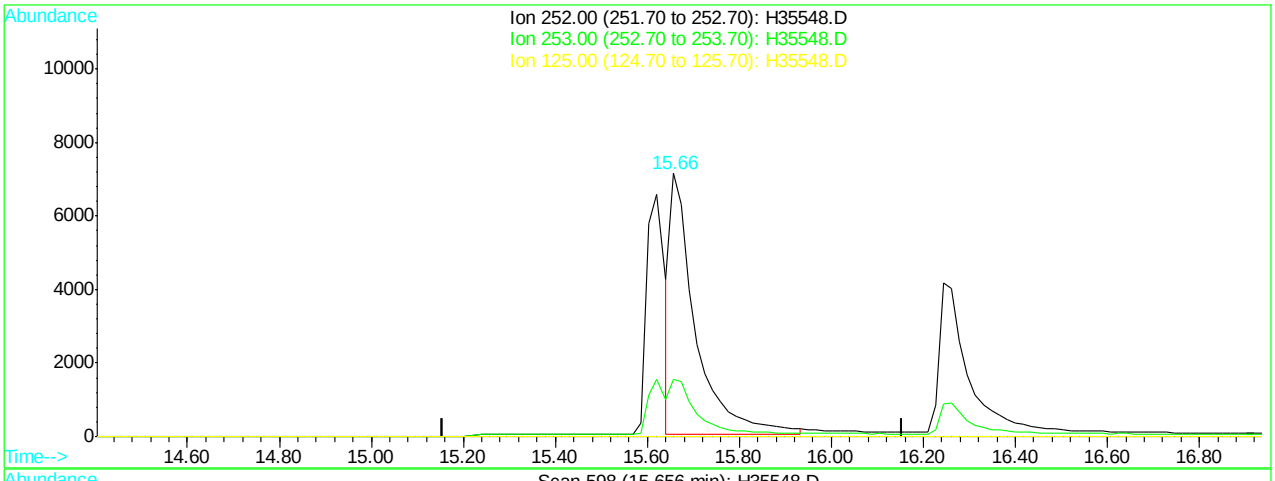
Ion	Exp%	Act%
142.00	100	100
141.00	72.40	86.79
115.00	0.00	0.00
0.00	0.00	0.00

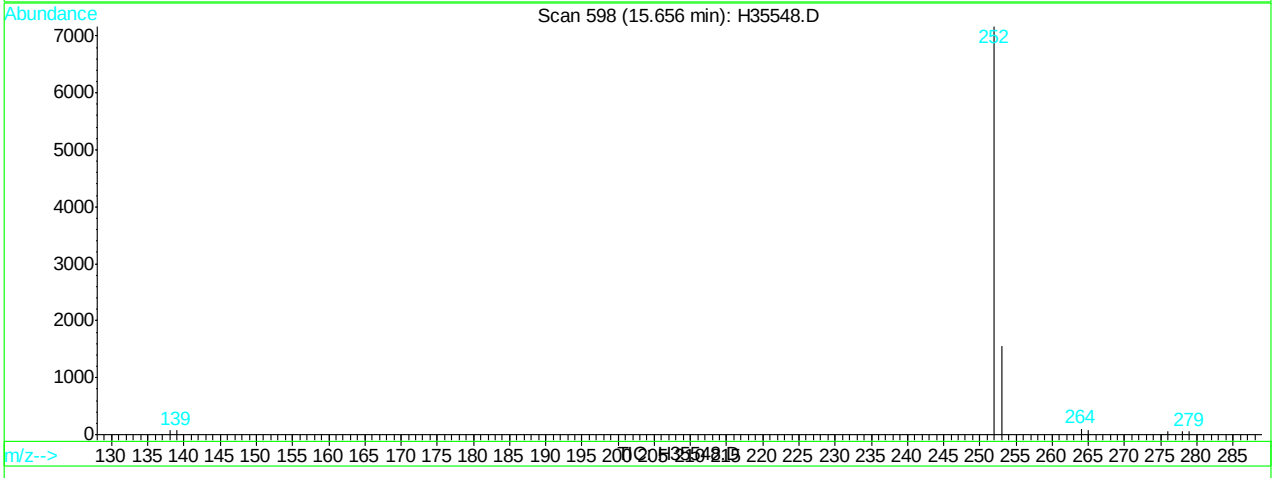
H35548.D H10269SP.M Tue Oct 27 14:25:59 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35548.D Vial: 6
Acq On : 22 Oct 2009 1:24 pm Operator: sheilac
Sample : ic1919-10 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:37 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.66min 10.34ppb m

response 27336

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	21.78
125.00	0.00	0.00
0.00	0.00	0.00

H35548.D H10269SP.M Tue Oct 27 14:26:03 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 14:00:47 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	72020	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	49085	4.00	ppb	-0.01
9) Acenaphthene-d10	9.57	164	45348	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	72574	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	10705	4.00	ppb	0.02
26) Perylene-d12	16.37	264	3696	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	94739	45.01	ppb	0.02
Spiked Amount 5.000	Range 17 - 131		Recovery	=	900.20%#	
10) 2-Fluorobiphenyl	8.87	172	1016068	33.26	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	665.20%#	
16) 2,4,6-Tribromophenol	10.40	330	147470	62.34	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	=	623.40%#	
23) Terphenyl-d14	12.66	244	94419	46.47	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	929.40%#	

Target Compounds

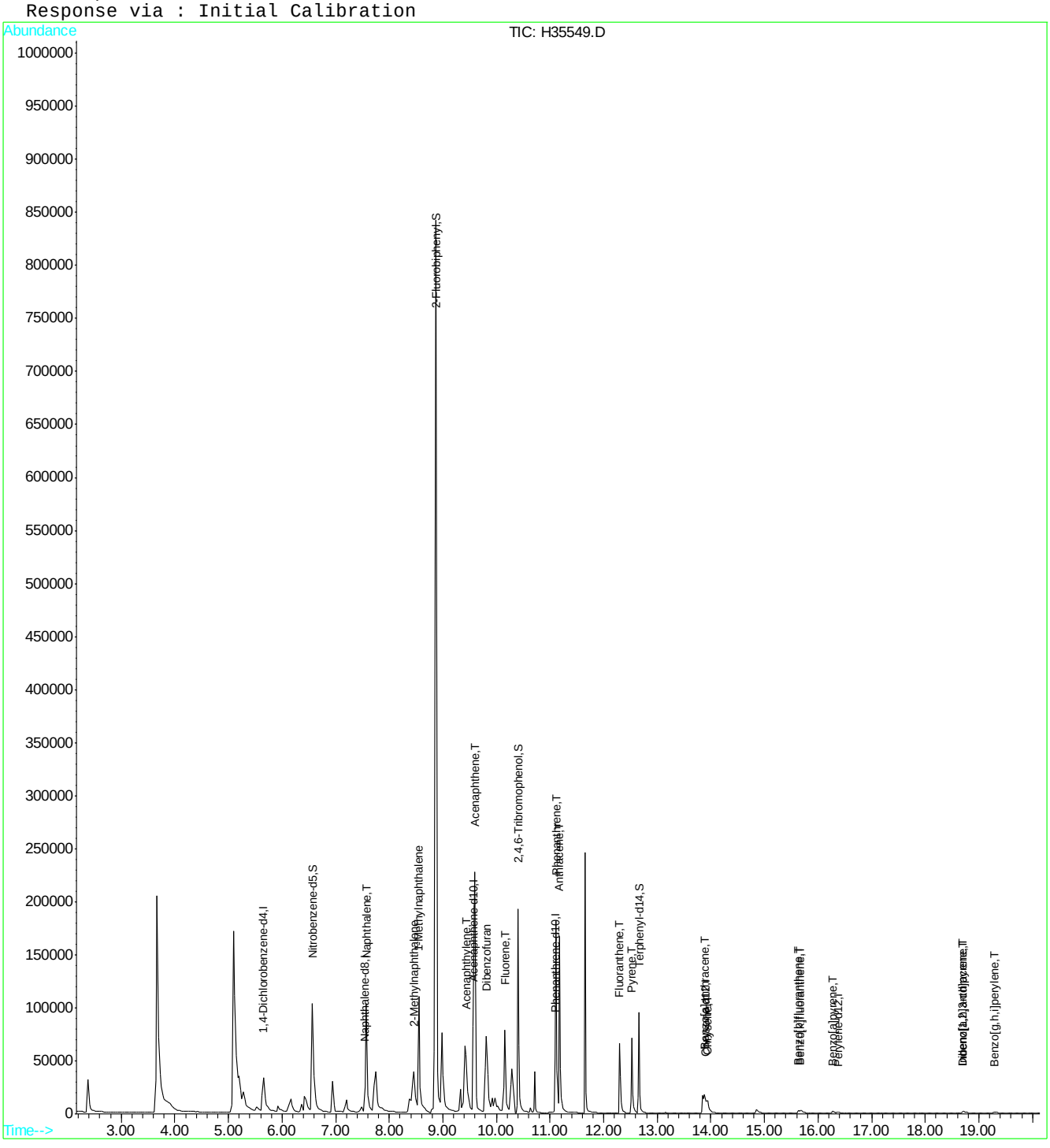
							Qvalue
6) Naphthalene	7.57	128	137653	11.22	ppb	#	87
7) 2-Methylnaphthalene	8.47	142	84125m	6.86	ppb		
8) 1-Methylnaphthalene	8.55	142	151263	9.38	ppb	#	71
11) Acenaphthylene	9.43	152	123370m	4.84	ppb		
12) Acenaphthene	9.60	153	150952	5.82	ppb		82
13) Dibenzofuran	9.81	168	114187	5.36	ppb		96
14) Fluorene	10.16	166	71146	6.00	ppb		97
18) Phenanthrene	11.11	178	175311	5.02	ppb		95
19) Anthracene	11.17	178	198487	5.49	ppb		98
20) Fluoranthene	12.29	202	105972	3.42	ppb	#	91
22) Pyrene	12.53	202	96067	9.95	ppb		97
24) Benzo[a]anthracene	13.88	228	15282	4.40	ppb		97
25) Chrysene	13.94	228	24825m	5.80	ppb		
27) Benzo[b]fluoranthene	15.64	252	5793m	4.49	ppb		
28) Benzo[k]fluoranthene	15.67	252	10801m	5.06	ppb		
29) Benzo[a]pyrene	16.28	252	7011	5.85	ppb		97
30) Indeno[1,2,3-cd]pyrene	18.70	276	5399	9.73	ppb		98
31) Dibenz[a,h]anthracene	18.70	278	3786	10.70	ppb		96
32) Benzo[g,h,i]perylene	19.29	276	4786	9.90	ppb		98

(#) = qualifier out of range (m) = manual integration
H35549.D H10269SP.M Tue Oct 27 14:26:14 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: H10229SP.RES

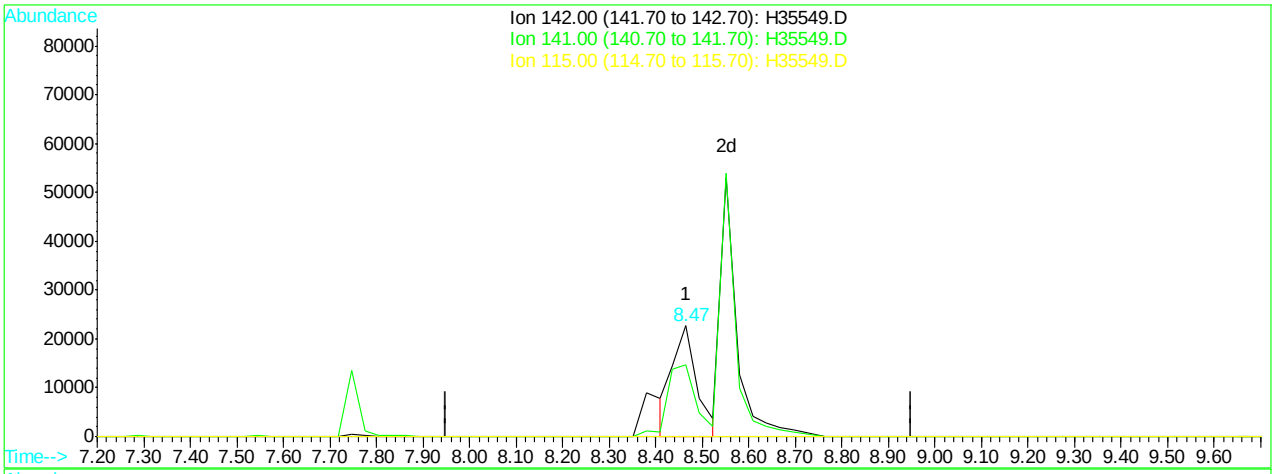
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

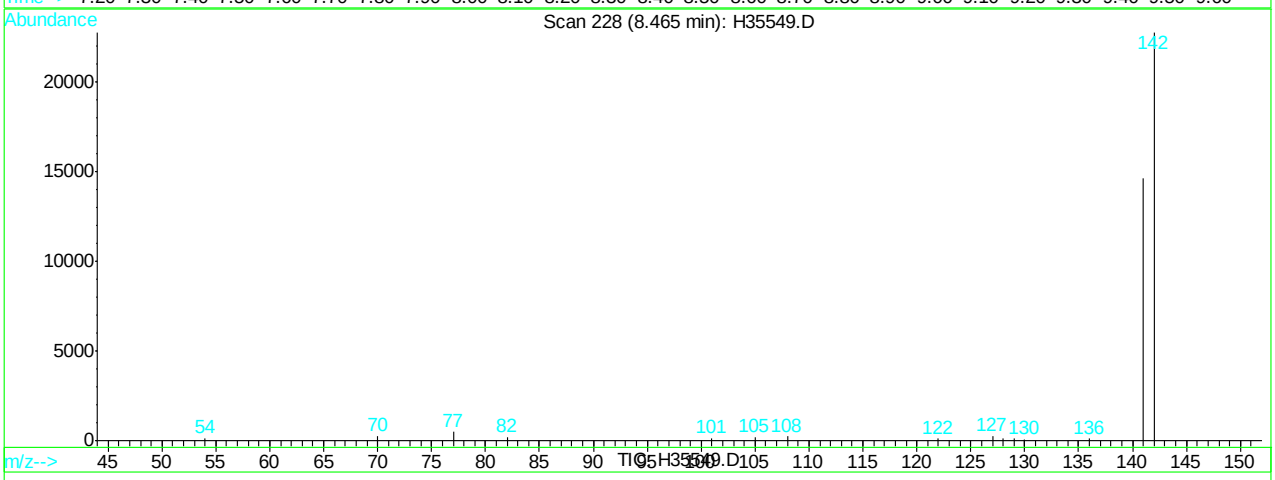


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.47min 6.86ppb m

response 84125

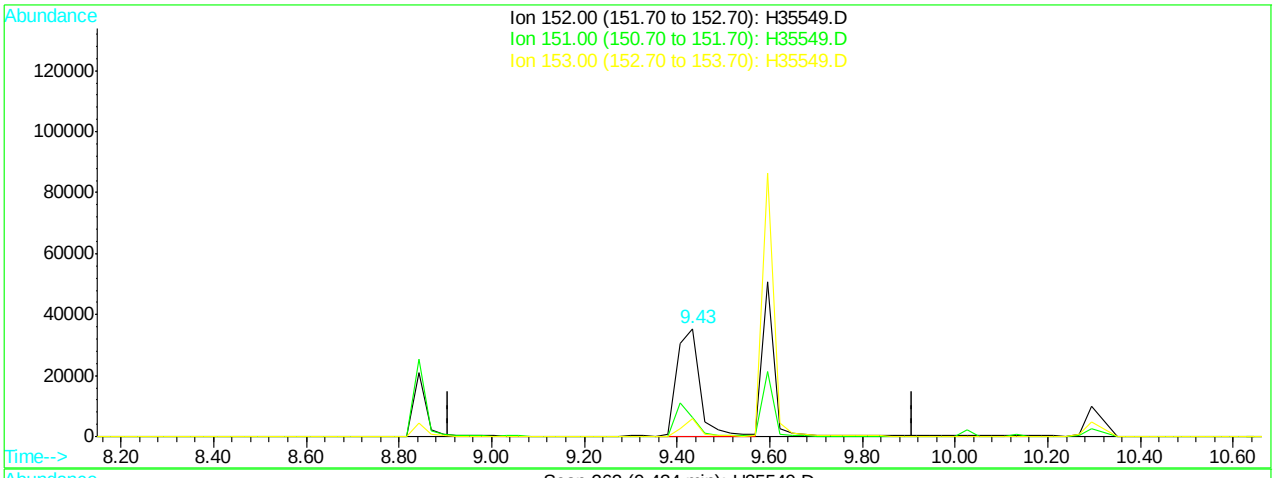
Ion	Exp%	Act%
142.00	100	100
141.00	72.40	71.54
115.00	0.00	0.00
0.00	0.00	0.00

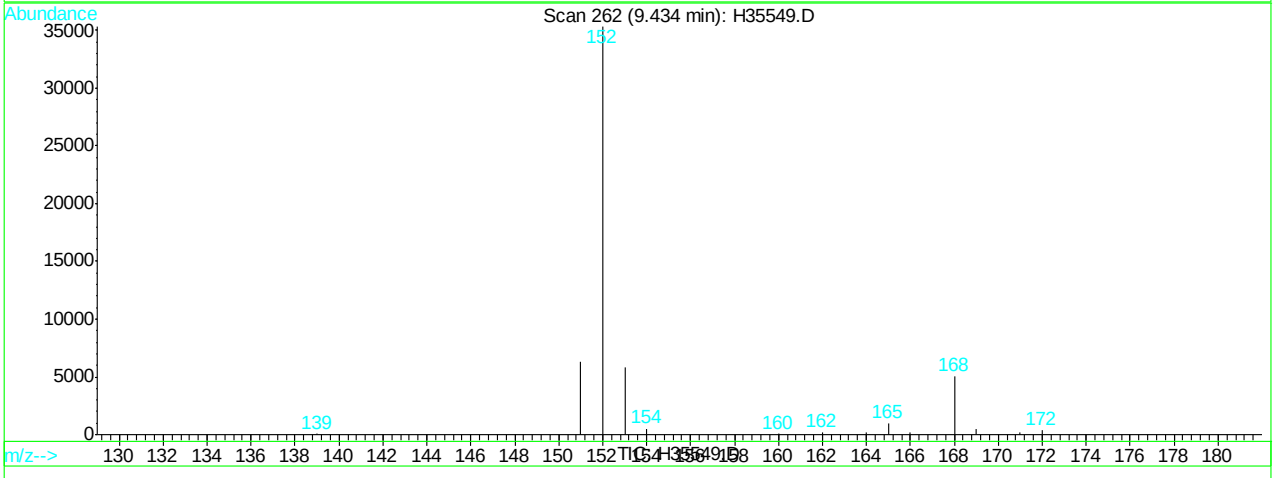
H35549.D H10269SP.M Tue Oct 27 14:26:35 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(11) Acenaphthylene (T)

9.43min 4.84ppb m

response 123370

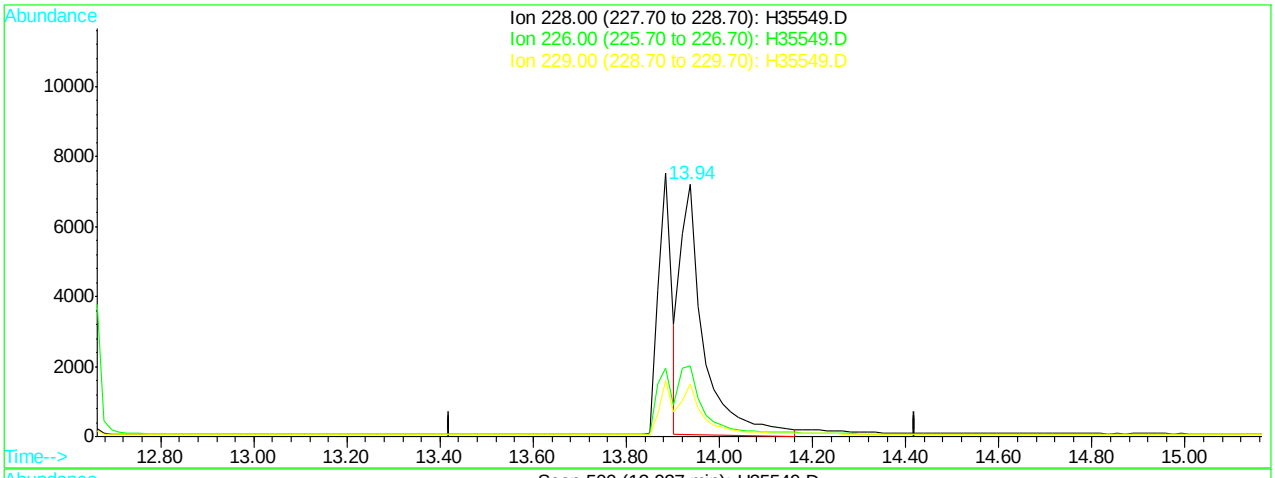
Ion	Exp%	Act%
152.00	100	100
151.00	29.50	17.76#
153.00	9.30	16.38#
0.00	0.00	0.00

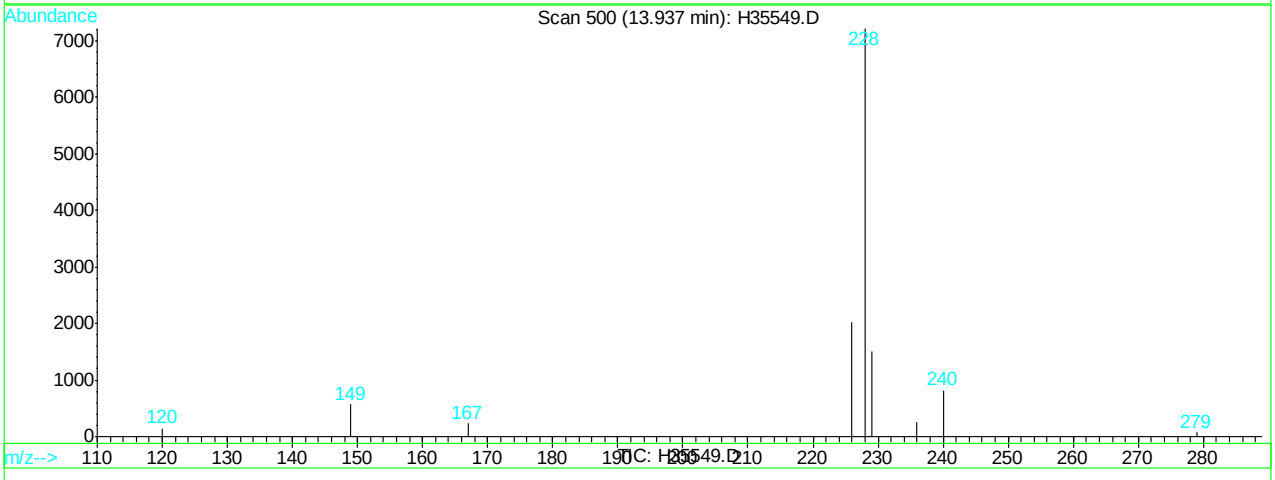
H35549.D H10269SP.M Tue Oct 27 14:26:39 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 5.80ppb m

response 24825

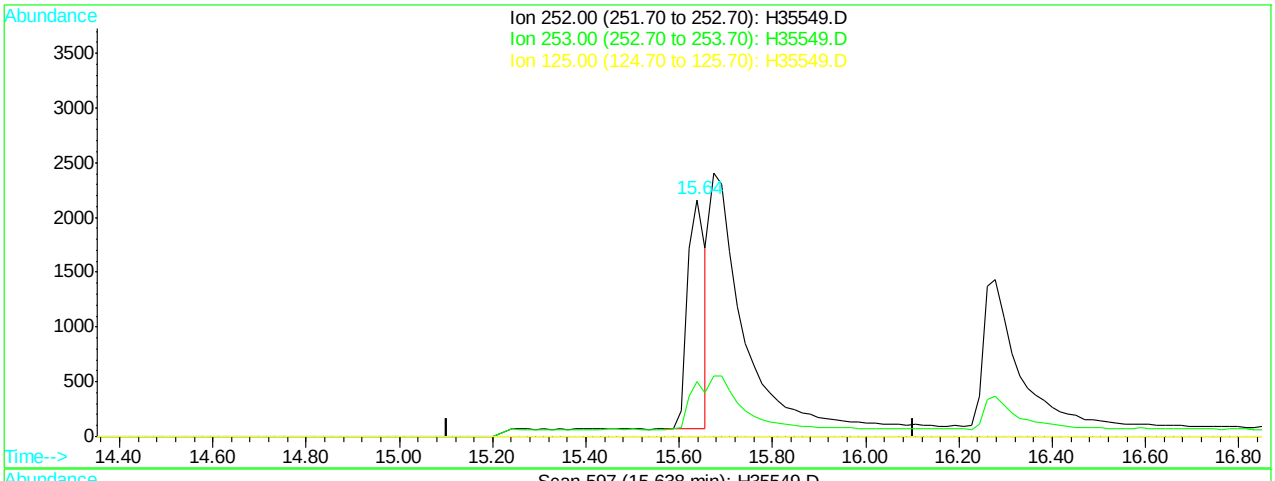
Ion	Exp%	Act%
228.00	100	100
226.00	28.00	27.99
229.00	20.90	20.93
0.00	0.00	0.00

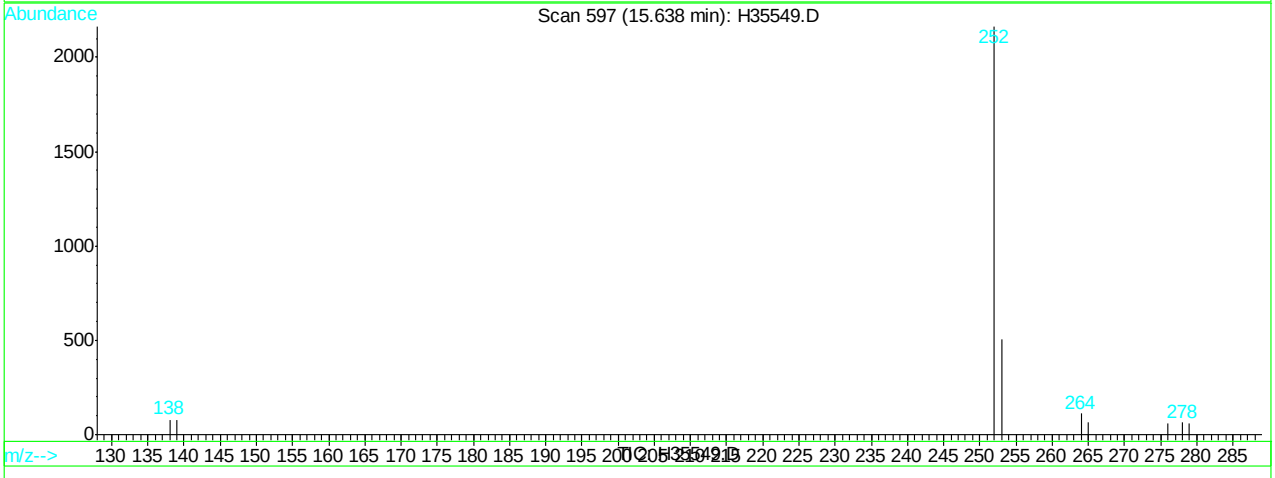
H35549.D H10269SP.M Tue Oct 27 14:26:44 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.64min 4.49ppb m

response 5793

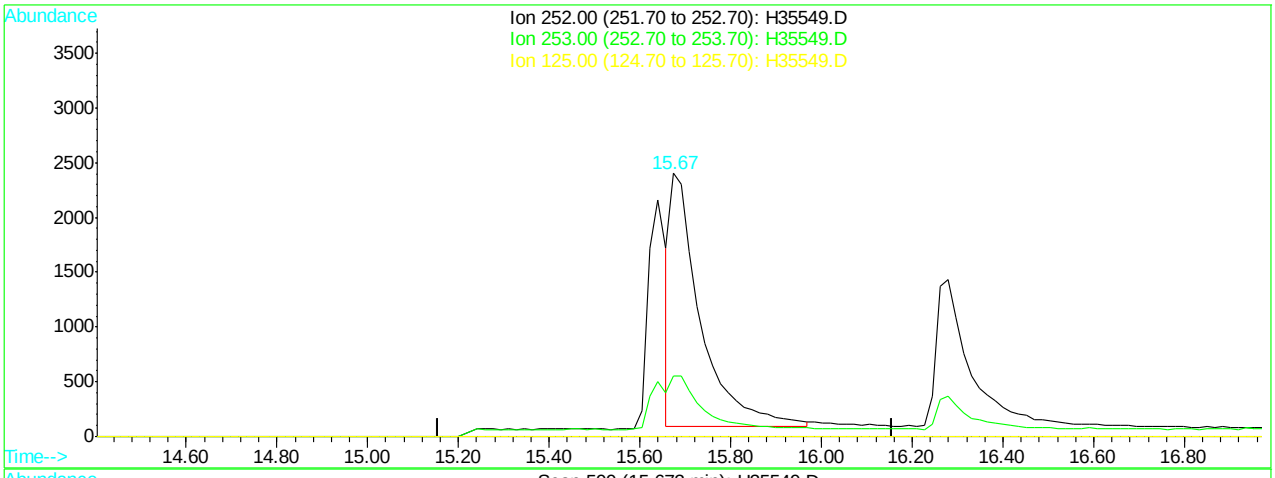
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	23.44
125.00	0.00	0.00
0.00	0.00	0.00

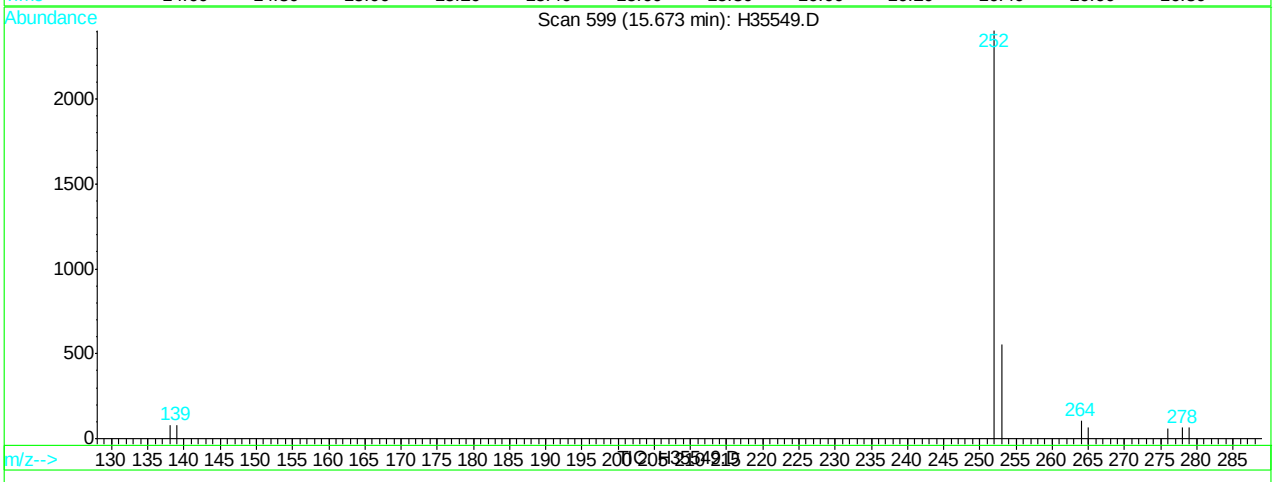
H35549.D H10269SP.M Tue Oct 27 14:26:47 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35549.D Vial: 7
Acq On : 22 Oct 2009 1:50 pm Operator: sheilac
Sample : ic1919-5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 14:40 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.67min 5.06ppb m

response 10801

Ion	Exp%	Act%
252.00	100	100
253.00	21.80	23.00
125.00	0.00	0.00
0.00	0.00	0.00

H35549.D H10269SP.M Tue Oct 27 14:26:51 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 15:05:12 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	71352	4.00	ppb	0.00
4) Naphthalene-d8	7.57	136	45874	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	47140	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	61620	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	12651	4.00	ppb	0.00
26) Perylene-d12	16.36	264	6928	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.57	82	49457	14.80	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 296.00%#			
10) 2-Fluorobiphenyl	8.87	172	510597	11.94	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 238.80%#			
16) 2,4,6-Tribromophenol	10.40	330	62182	32.90	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 329.00%#			
23) Terphenyl-d14	12.66	244	36529	11.59	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 231.80%#			

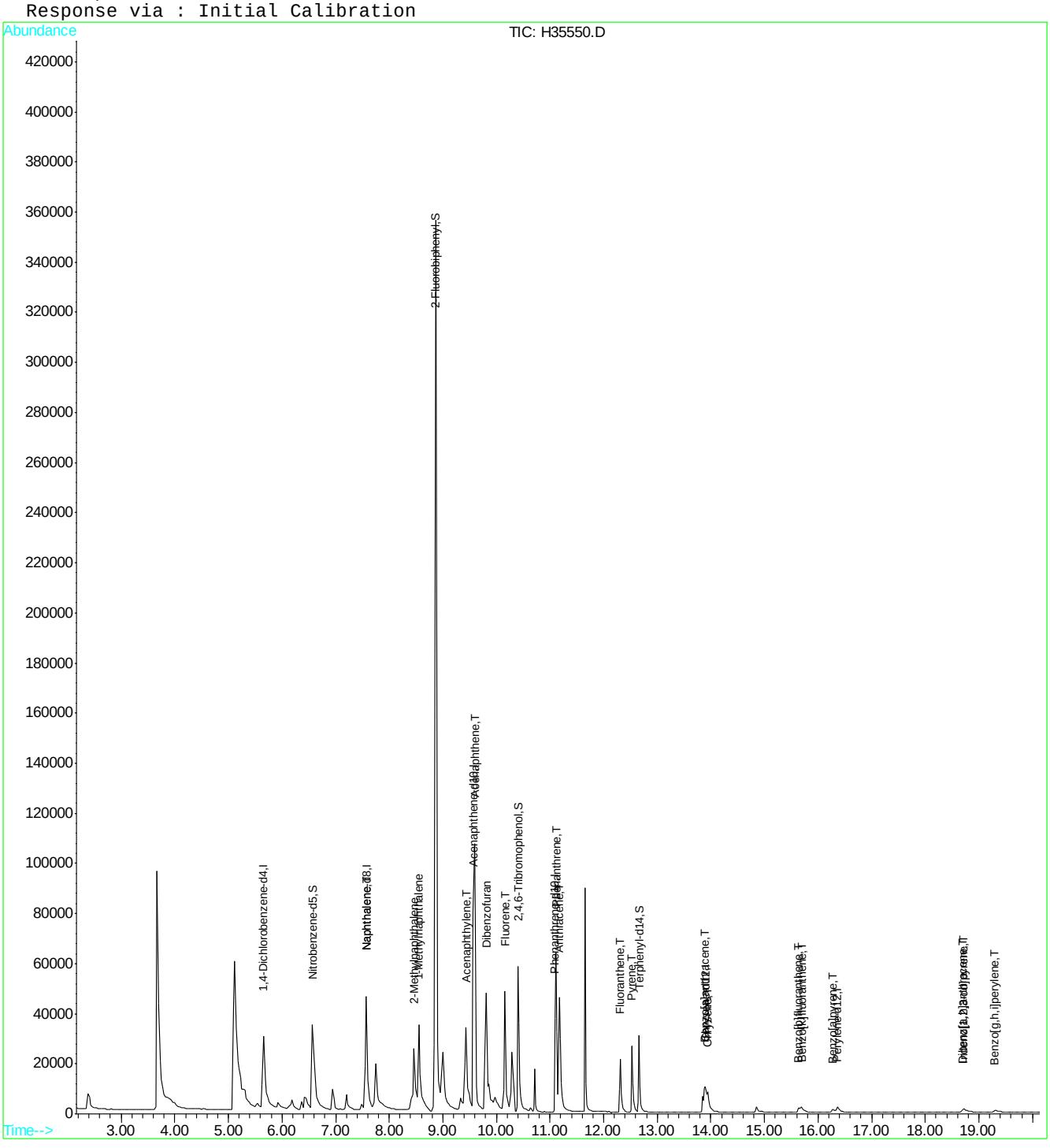
Target Compounds							Qvalue
6) Naphthalene	7.57	128	62581	2.64	ppb		95
7) 2-Methylnaphthalene	8.47	142	38783m	2.25	ppb		
8) 1-Methylnaphthalene	8.55	142	63127	2.43	ppb	#	53
11) Acenaphthylene	9.43	152	57505	1.85	ppb		98
12) Acenaphthene	9.60	153	71900	2.54	ppb		86
13) Dibenzofuran	9.81	168	79168	2.45	ppb		90
14) Fluorene	10.16	166	43085	2.35	ppb		100
18) Phenanthrene	11.11	178	69637	2.40	ppb		98
19) Anthracene	11.17	178	81751	2.44	ppb		99
20) Fluoranthene	12.31	202	40916	2.53	ppb		99
22) Pyrene	12.53	202	45573	2.18	ppb		98
24) Benzo[a]anthracene	13.88	228	10119m	2.36	ppb		
25) Chrysene	13.94	228	12866m	2.04	ppb		
27) Benzo[b]fluoranthene	15.64	252	3969m	1.56	ppb		
28) Benzo[k]fluoranthene	15.69	252	8833m	2.60	ppb		
29) Benzo[a]pyrene	16.28	252	5774	2.49	ppb		97
30) Indeno[1,2,3-cd]pyrene	18.72	276	4712	3.55	ppb		88
31) Dibenz[a,h]anthracene	18.70	278	3236	2.97	ppb		96
32) Benzo[g,h,i]perylene	19.29	276	4243	3.31	ppb		96

(#) = qualifier out of range (m) = manual integration
H35550.D H10269SP.M Tue Oct 27 14:26:57 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: H10229SP.RES

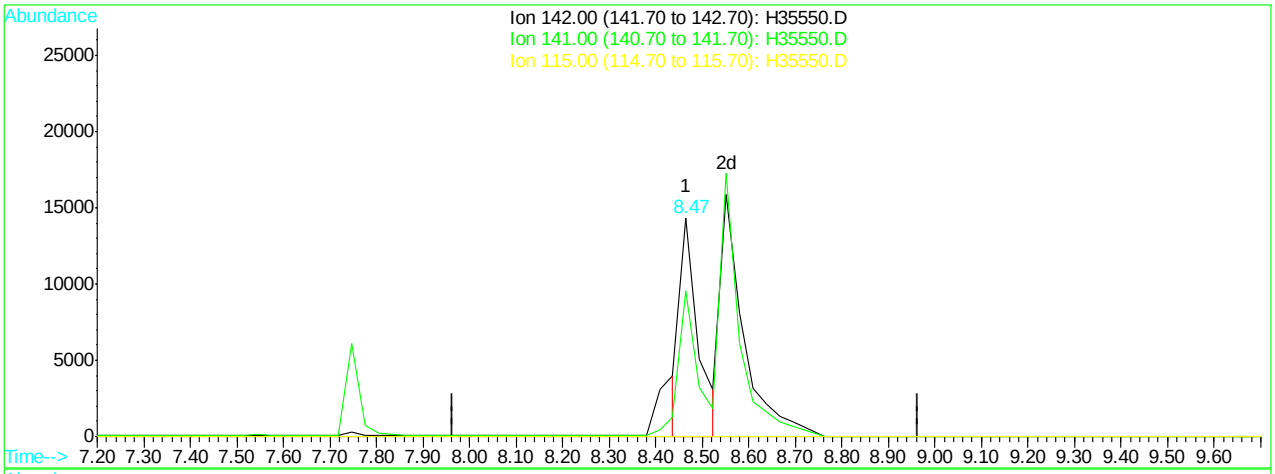
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

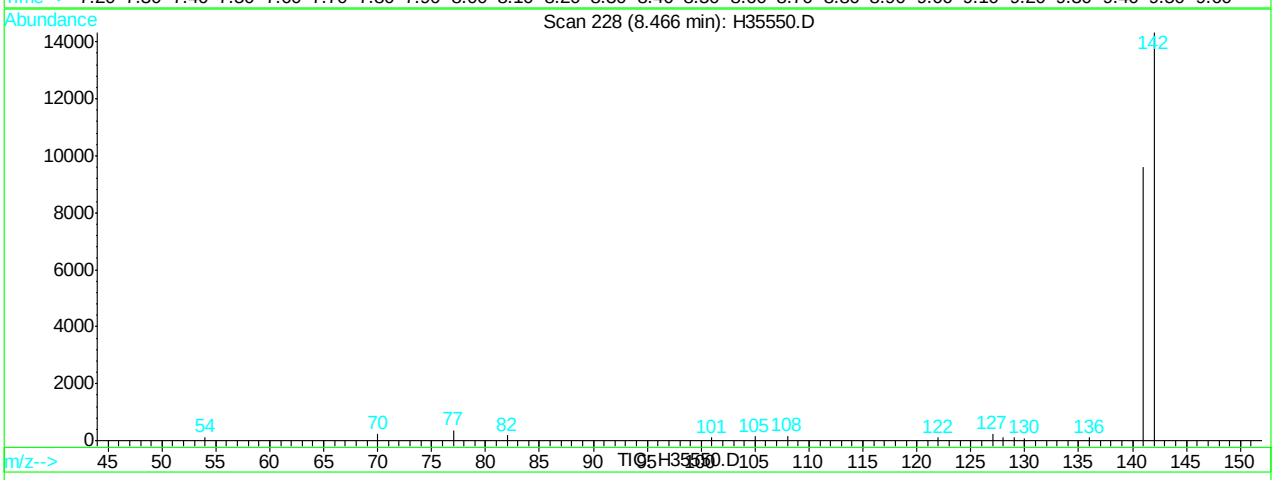


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.47min 2.25ppb m

response 38783

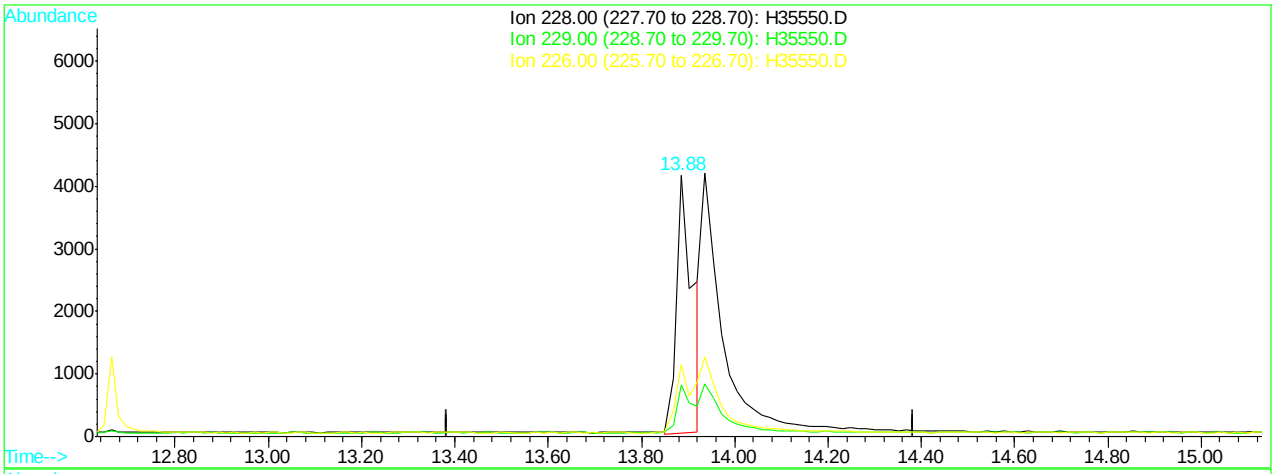
Ion	Exp%	Act%
142.00	100	100
141.00	53.70	0.00#
115.00	0.00	0.00
0.00	0.00	0.00

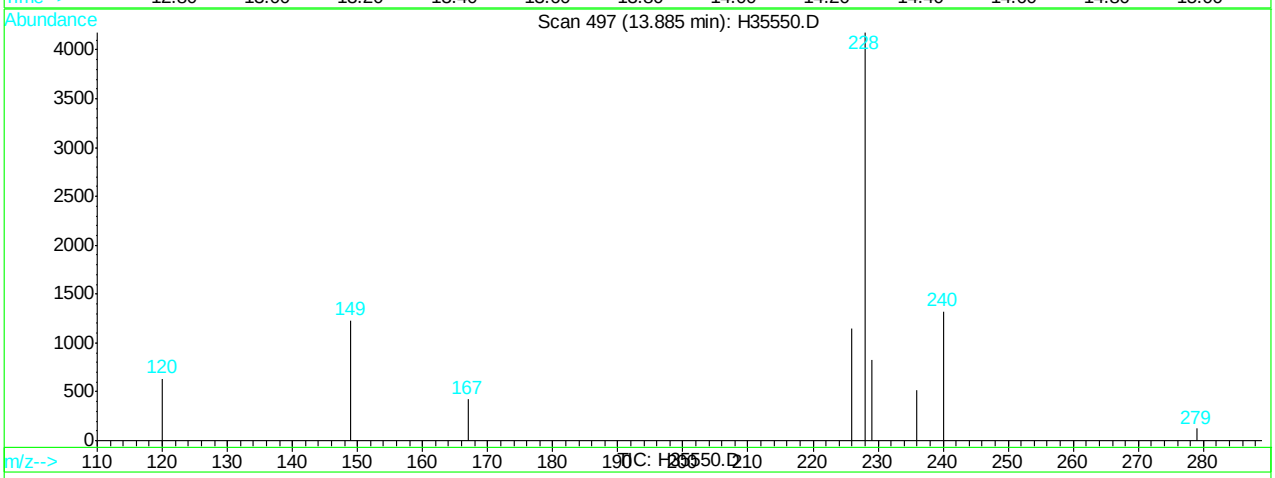
H35550.D H10269SP.M Tue Oct 27 14:27:17 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.88min 2.36ppb m

response 10119

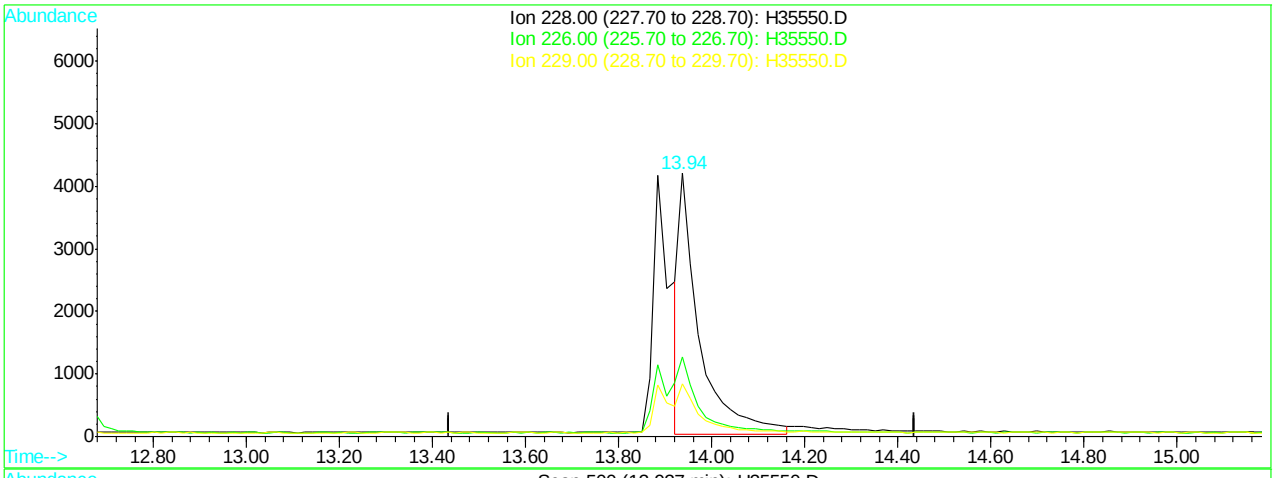
Ion	Exp%	Act%
228.00	100	100
229.00	19.00	19.80
226.00	28.70	27.44
0.00	0.00	0.00

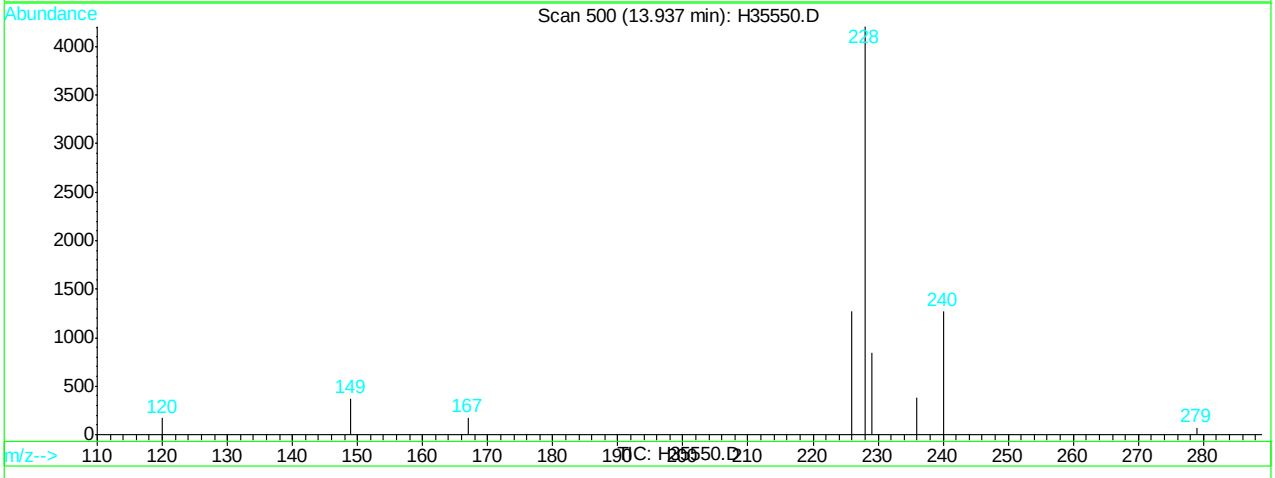
H35550.D H10269SP.M Tue Oct 27 14:27:22 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 2.04ppb m

response 12866

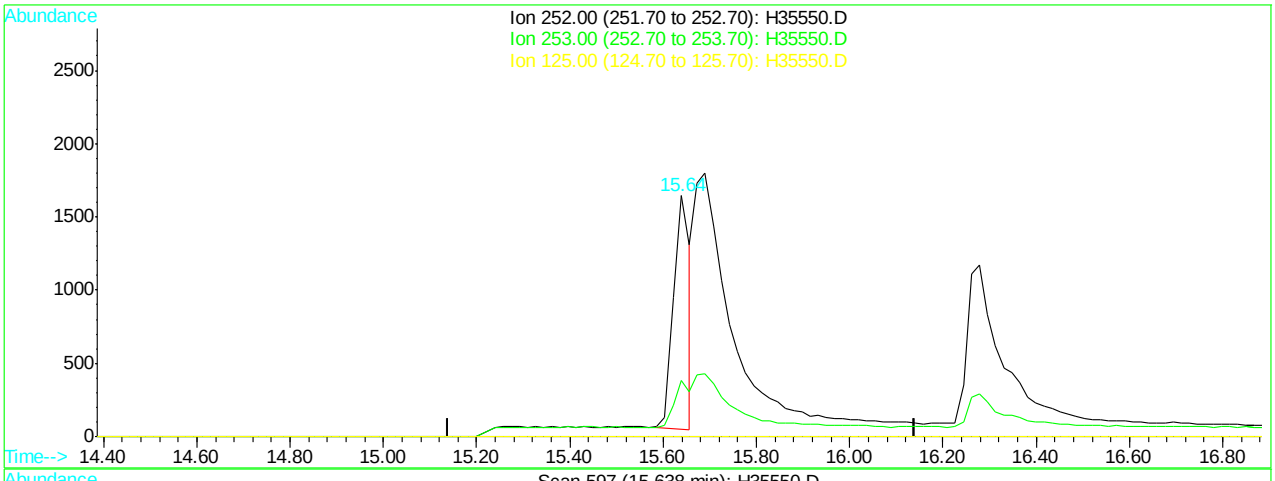
Ion	Exp%	Act%
228.00	100	100
226.00	29.20	30.09
229.00	18.40	20.16
0.00	0.00	0.00

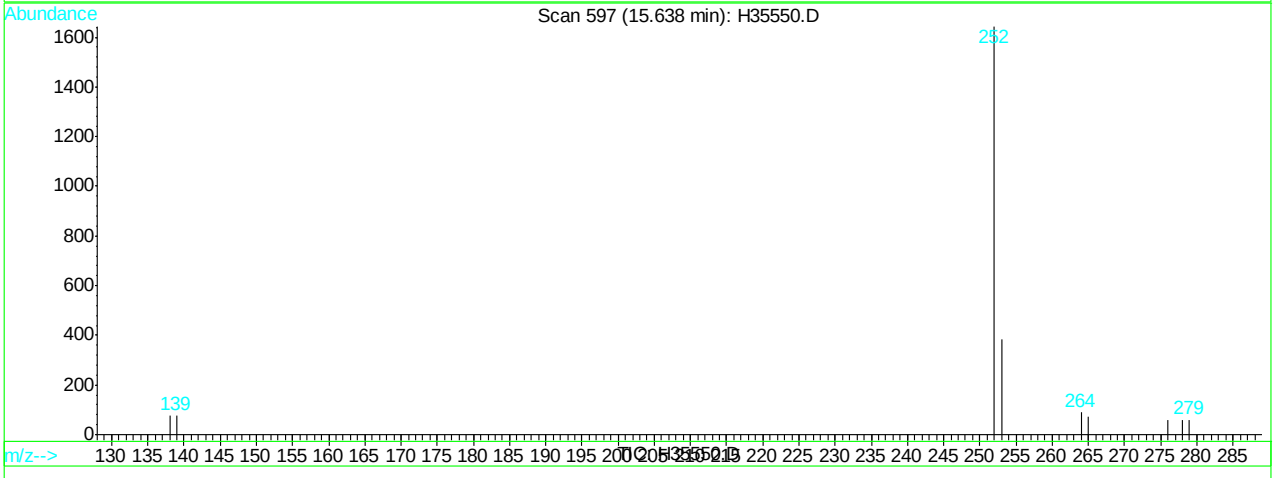
H35550.D H10269SP.M Tue Oct 27 14:27:25 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.64min 1.56ppb m

response 3969

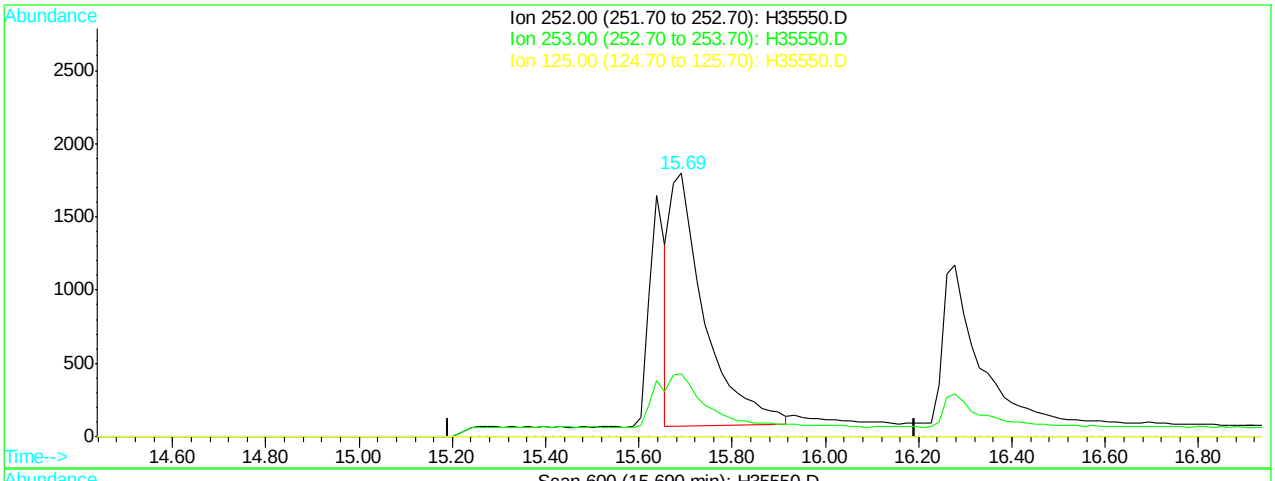
Ion	Exp%	Act%
252.00	100	100
253.00	26.80	23.49
125.00	0.00	0.00
0.00	0.00	0.00

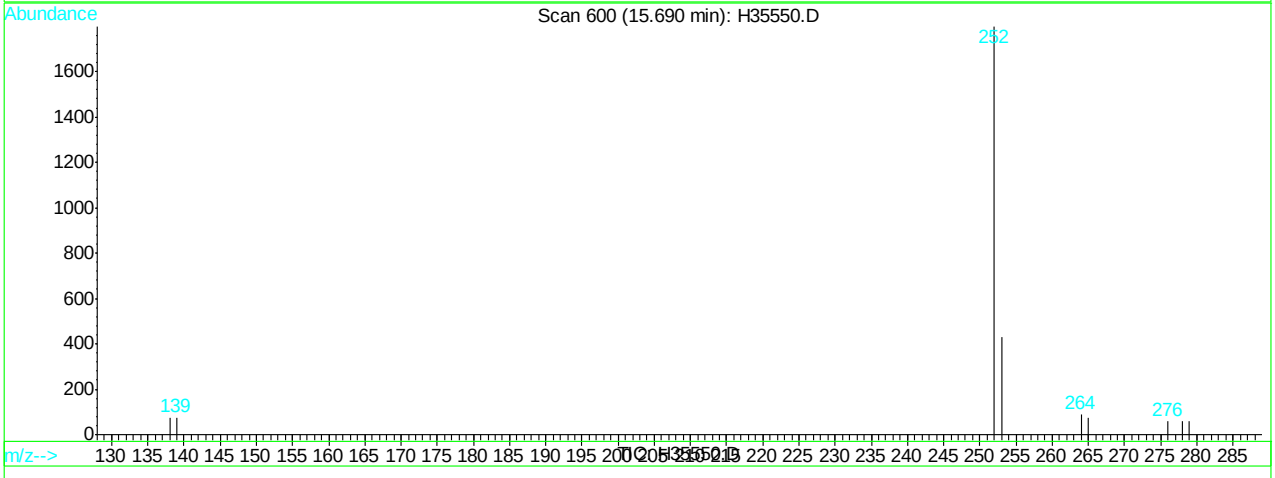
H35550.D H10269SP.M Tue Oct 27 14:27:28 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35550.D Vial: 8
Acq On : 22 Oct 2009 2:54 pm Operator: sheilac
Sample : icc1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 15:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.69min 2.60ppb m

response 8833

Ion	Exp%	Act%
252.00	100	100
253.00	26.80	23.97
125.00	0.00	0.00
0.00	0.00	0.00

H35550.D H10269SP.M Tue Oct 27 14:27:31 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/27/09 17:03

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1919\H35551.D Vial: 9
Acq On : 22 Oct 2009 3:18 pm Operator: sheilac
Sample : icv1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:15 2009 Quant Results File: H10229SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10229SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Thu Oct 22 16:12:53 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	99212	4.00	ppb	0.00
4) Naphthalene-d8	7.54	136	73811	4.00	ppb	-0.03
9) Acenaphthene-d10	9.57	164	64543	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	80009	4.00	ppb	0.00
21) Chrysene-d12	13.90	240	11558	4.00	ppb	0.00
26) Perylene-d12	16.37	264	5101	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	0.00	82	0d	0.00	ppb	
Spiked Amount 5.000	Range 17 - 131		Recovery	=	0.00%#	
10) 2-Fluorobiphenyl	0.00	172	0d	0.00	ppb	
Spiked Amount 5.000	Range 15 - 137		Recovery	=	0.00%#	
16) 2,4,6-Tribromophenol	0.00	330	0d	0.00	ppb	
Spiked Amount 10.000	Range 10 - 123		Recovery	=	0.00%#	
23) Terphenyl-d14	0.00	244	0	0.00	ppb	
Spiked Amount 5.000	Range 10 - 160		Recovery	=	0.00%#	

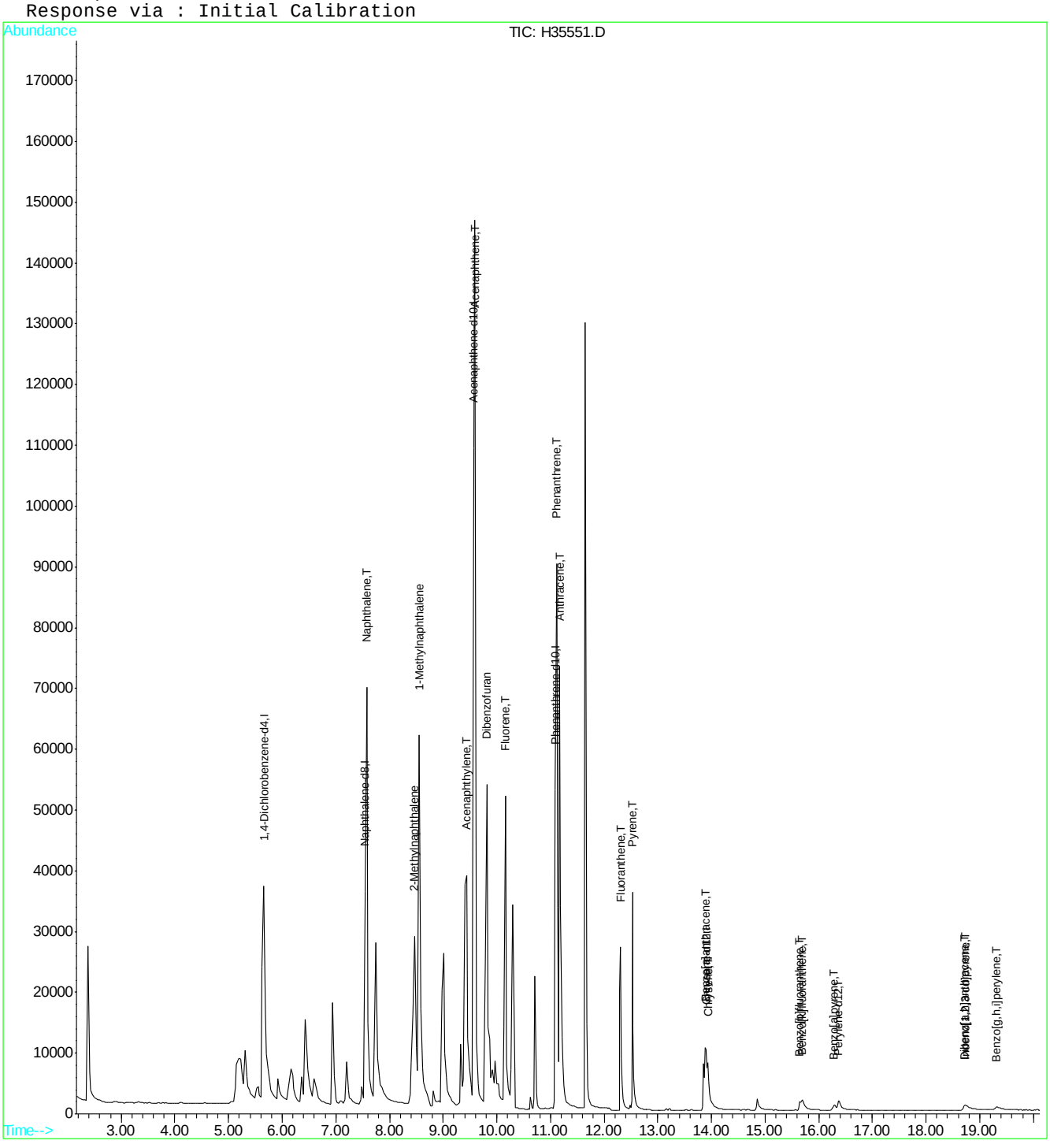
Target Compounds							Qvalue
6) Naphthalene	7.57	128	93243	2.46	ppb		97
7) 2-Methylnaphthalene	8.47	142	65317	2.61	ppb	#	100
8) 1-Methylnaphthalene	8.55	142	92066	2.21	ppb	#	97
11) Acenaphthylene	9.43	152	79668	2.33	ppb		99
12) Acenaphthene	9.60	153	96689	2.50	ppb		97
13) Dibenzofuran	9.81	168	85948	1.83	ppb		85
14) Fluorene	10.16	166	46800	2.01	ppb		98
18) Phenanthrene	11.11	178	91492	2.43	ppb		98
19) Anthracene	11.17	178	108418	2.49	ppb		95
20) Fluoranthene	12.31	202	56066	2.61	ppb		100
22) Pyrene	12.53	202	57256	2.86	ppb		95
24) Benzo[a]anthracene	13.89	228	7665	2.45	ppb		99
25) Chrysene	13.94	228	14115m	2.74	ppb		
27) Benzo[b]fluoranthene	15.64	252	2670m	2.08	ppb		
28) Benzo[k]fluoranthene	15.69	252	7773m	2.77	ppb		
29) Benzo[a]pyrene	16.28	252	4273	2.36	ppb		98
30) Indeno[1,2,3-cd]pyrene	18.74	276	3128	2.21	ppb		95
31) Dibenz[a,h]anthracene	18.72	278	2121	2.16	ppb		89
32) Benzo[g,h,i]perylene	19.31	276	2835	2.19	ppb		100

(#) = qualifier out of range (m) = manual integration
H35551.D H10269SP.M Tue Oct 27 14:27:41 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1919\H35551.D Vial: 9
Acq On : 22 Oct 2009 3:18 pm Operator: sheilac
Sample : icv1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:15 2009 Quant Results File: H10229SP.RES

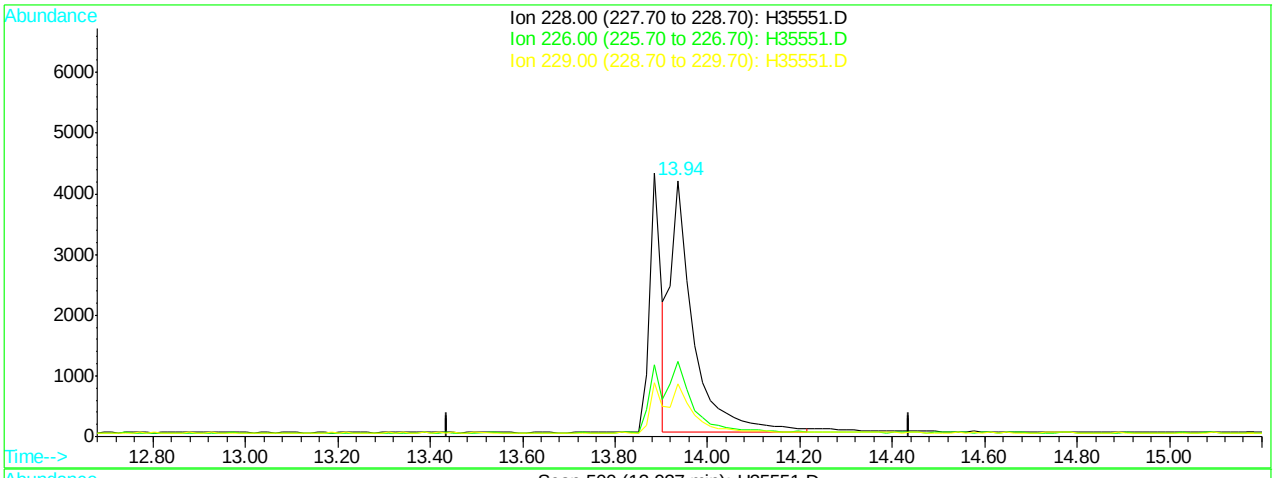
Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Initial Calibration

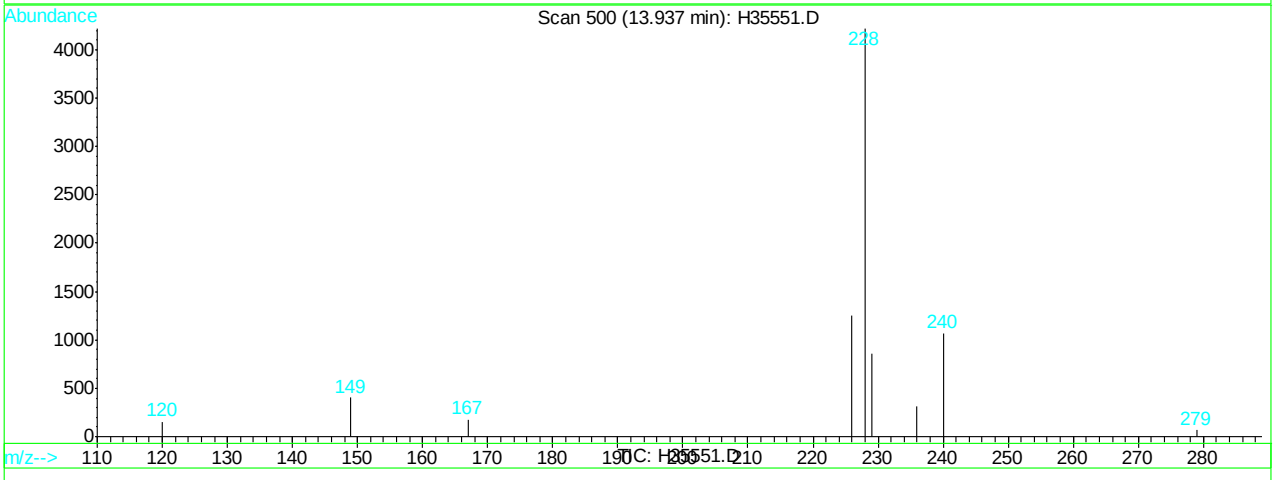


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35551.D Vial: 9
Acq On : 22 Oct 2009 3:18 pm Operator: sheilac
Sample : icv1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:15 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.94min 2.74ppb m

response 14115

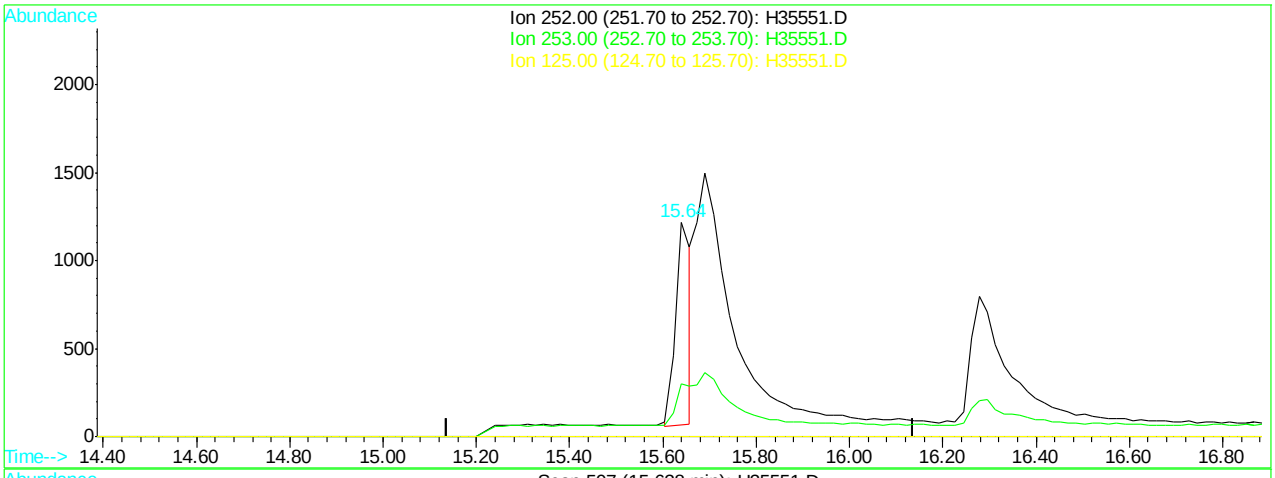
Ion	Exp%	Act%
228.00	100	100
226.00	30.10	29.56
229.00	20.20	20.38
0.00	0.00	0.00

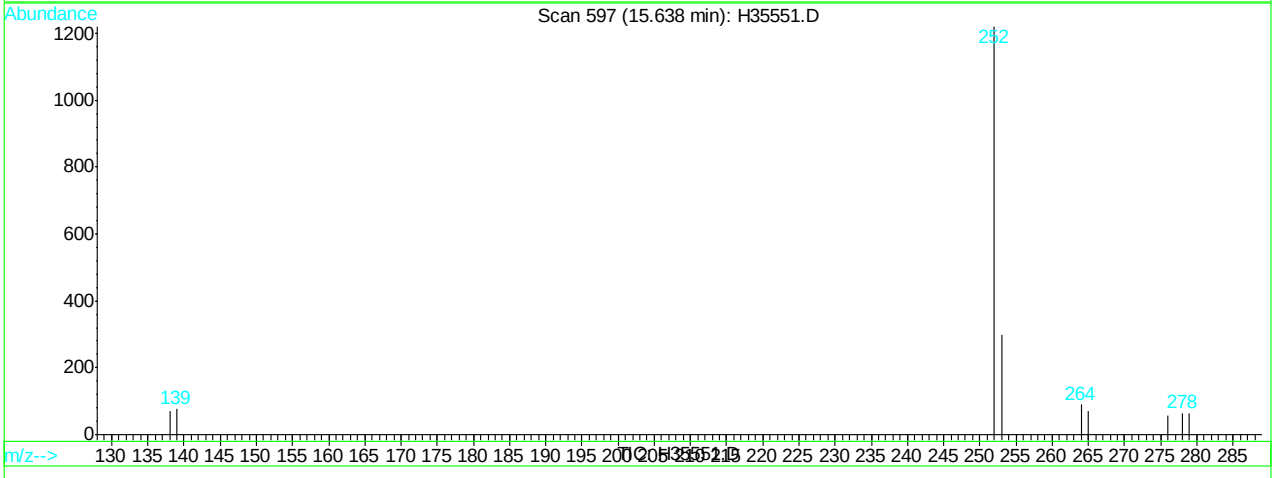
H35551.D H10269SP.M Tue Oct 27 14:28:06 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35551.D Vial: 9
Acq On : 22 Oct 2009 3:18 pm Operator: sheilac
Sample : icv1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:15 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.64min 2.08ppb m

response 2670

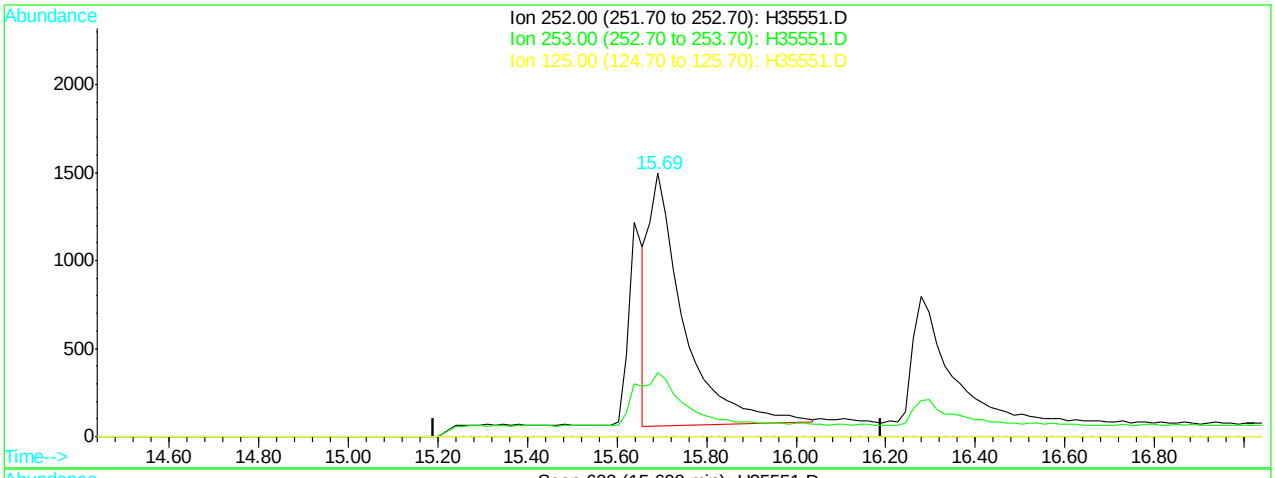
Ion	Exp%	Act%
252.00	100	100
253.00	23.50	24.34
125.00	0.00	0.00
0.00	0.00	0.00

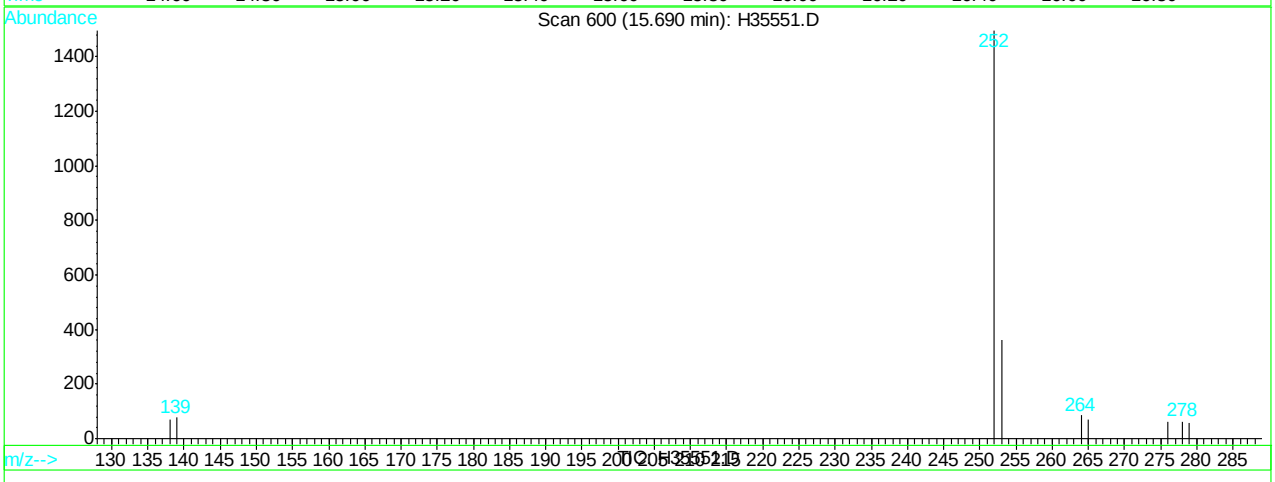
H35551.D H10269SP.M Tue Oct 27 14:28:09 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1919\H35551.D Vial: 9
Acq On : 22 Oct 2009 3:18 pm Operator: sheilac
Sample : icv1919-2.5 Inst : TXMSH
Misc : OP12779,EH1919,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 16:15 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10269SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 27 13:58:49 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.69min 2.77ppb m

response 7773

Ion	Exp%	Act%
252.00	100	100
253.00	24.00	24.13
125.00	0.00	0.00
0.00	0.00	0.00

H35551.D H10269SP.M Tue Oct 27 14:28:13 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13335.D
Acq On : 23 Sep 2009 11:52 am
Operator : sheilac
Sample : ic615-5
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 23 12:32:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:30:02 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.885	152	1131767	40.00	ug/ml	-0.02
20) Naphthalene-d8	6.120	136	4156402	40.00	ug/ml	-0.04
36) Acenaphthene-d10	8.629	164	2172842	40.00	ug/ml	-0.04
57) Phenanthrene-d10	11.426	188	3050995	40.00	ug/ml	0.00
71) Chrysene-d12	16.951	240	2427194	40.00	ug/ml	0.00
80) Perylene-d12	19.748	264	1762776	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.895	112	339646	9.36	ug/ml	-0.01
Spiked Amount 100.000	Range 23 - 110		Recovery	=	9.36%#	
5) Phenol-d5 (SURR)	4.665	99	426538	9.45	ug/ml	-0.03
Spiked Amount 100.000	Range 23 - 114		Recovery	=	9.45%#	
21) Nitrobenzene-d5 (SURR)	5.382	82	209263	4.72	ug/ml	-0.05
Spiked Amount 50.000	Range 36 - 126		Recovery	=	9.44%#	
40) 2-Fluorobiphenyl (SURR)	7.527	172	376824	4.57	ug/ml	-0.06
Spiked Amount 50.000	Range 34 - 132		Recovery	=	9.14%#	
62) 2,4,6-Tribromophenol (...	10.067	330	79131	10.07	ug/ml	-0.05
Spiked Amount 100.000	Range 33 - 138		Recovery	=	10.07%#	
74) Terphenyl-d14	14.769	244	253631	4.68	ug/ml	-0.02
Spiked Amount 50.000	Range 46 - 136		Recovery	=	9.36%#	
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.638	74	93609m	4.68	ug/ml	
3) Pyridine	2.627	79	156059m	4.54	ug/ml	
6) Phenol	4.681	94	231255	4.73	ug/ml	93
7) Aniline	4.628	93	211628	4.64	ug/ml	99
8) bis(2-Chloroethyl)ether	4.665	93	231589	4.58	ug/ml	99
9) 2-Chlorophenol	4.746	128	177762	4.75	ug/ml	100
10) 1,3-Dichlorobenzene	4.831	146	202363	4.78	ug/ml	99
11) 1,4-Dichlorobenzene	4.895	146	220980	4.91	ug/ml	94
12) Benzyl Alcohol	5.024	108	115532	4.48	ug/ml	97
13) 1,2-Dichlorobenzene	5.029	146	193429	4.59	ug/ml	99
14) 2-Methylphenol	5.163	108	159314	4.71	ug/ml	98
15) bis(2-chloroisopropyl)...	5.120	45	304930	5.05	ug/ml	98
16) 4-Methylphenol	5.302	108	163048	4.60	ug/ml	99
17) m+p-Cresols	5.302	108	163048	4.60	ug/ml	99
18) n-Nitroso-di-n-propyla...	5.243	70	152247	4.76	ug/ml	100
19) Hexachloroethane	5.334	117	76866	4.56	ug/ml	99
22) Nitrobenzene	5.398	77	205410	4.71	ug/ml	99
23) Isophorone	5.628	82	377302	4.77	ug/ml	99
24) 2-Nitrophenol	5.708	139	84665	4.39	ug/ml	99
25) 2,4-Dimethylphenol	5.783	122	138935	4.35	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.842	93	206408	4.74	ug/ml	100
27) Benzoic Acid	5.917	105	53806	3.66	ug/ml	93
28) 2,4-Dichlorophenol	6.008	162	124383	4.40	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.051	180	155536	4.51	ug/ml	99
30) Naphthalene	6.142	128	525298	4.65	ug/ml	100
31) 4-Chloroaniline	6.206	127	157550	4.29	ug/ml	99
32) Hexachlorobutadiene	6.286	225	97662	4.48	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13335.D
Acq On : 23 Sep 2009 11:52 am
Operator : sheilac
Sample : ic615-5
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 23 12:32:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:30:02 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.869	107	139664	4.29	ug/ml	99
34) 2-Methylnaphthalene	6.997	142	310487	4.45	ug/ml	99
35) 1-Methylnaphthalene	7.131	142	326170	4.47	ug/ml	99
37) Hexachlorocyclopentadiene	7.233	237	12800	1.47	ug/ml	99
38) 2,4,6-Trichlorophenol	7.436	196	79355	4.49	ug/ml	100
39) 2,4,5-Trichlorophenol	7.543	196	80073	7.67	ug/ml	99
41) 2-Chloronaphthalene	7.703	162	281032	4.69	ug/ml	100
42) 2-Nitroaniline	7.885	65	98144	4.73	ug/ml	99
43) Dimethylphthalate	8.195	163	347339	4.70	ug/ml	100
44) Acenaphthylene	8.367	152	478875	4.65	ug/ml	100
45) 2,6-Dinitrotoluene	8.286	165	78314	4.53	ug/ml#	87
46) 3-Nitroaniline	8.581	138	61443	4.09	ug/ml#	77
47) Acenaphthene	8.671	154	278921	4.56	ug/ml	99
48) 2,4-Dinitrophenol	8.789	184	3806	5.16	ug/ml#	62
49) 4-Nitrophenol	9.126	65	30613	4.38	ug/ml#	91
50) Dibenzofuran	8.971	168	389921	4.44	ug/ml	100
51) 2,4-Dinitrotoluene	8.992	165	91521	4.30	ug/ml#	63
52) 2,3,4,6-Tetrachlorophenol	9.254	232	58838	3.91	ug/ml	97
53) Diethylphthalate	9.452	149	347292	4.40	ug/ml	100
54) Fluorene	9.597	166	327689	4.25	ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.618	204	156995	4.13	ug/ml	100
56) 4-Nitroaniline	9.693	138	52401	3.92	ug/ml	97
58) 1,2-Diphenylhydrazine	9.918	77	363016	4.83	ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.763	198	22897	7.38	ug/ml	96
60) Diphenylamine	9.853	169	263778	4.79	ug/ml	100
61) n-Nitrosodiphenylamine	9.853	169	263778	4.79	ug/ml	100
63) 4-Bromophenyl-phenylether	10.549	248	87288	4.65	ug/ml	98
64) Hexachlorobenzene	10.677	284	97545	4.72	ug/ml	98
65) Pentachlorophenol	11.126	266	13720	1.65	ug/ml	95
66) Phenanthrene	11.463	178	416457	4.56	ug/ml	99
67) Anthracene	11.560	178	397023	4.49	ug/ml	99
68) Carbazole	11.934	167	329803	4.52	ug/ml	100
69) Di-n-butylphthalate	12.747	149	490470	4.29	ug/ml	100
70) Fluoranthene	13.908	202	378152	4.24	ug/ml	99
72) Benzidine	14.255	184	52435	2.58	ug/ml#	91
73) Pyrene	14.362	202	394970	5.04	ug/ml	99
75) Butylbenzylphthalate	15.865	149	172915	4.85	ug/ml	99
76) Benzo(a)anthracene	16.919	228	337127	4.91	ug/ml	99
77) 3,3'-Dichlorobenzidine	16.919	252	86947	3.60	ug/ml	97
78) Chrysene	16.994	228	284766	4.91	ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.133	149	232729	5.00	ug/ml	99
81) Di-n-octylphthalate	18.417	149	339068	7.62	ug/ml	100
82) Benzo(b)fluoranthene	19.042	252	264539	4.49	ug/ml	97
83) Benzo(k)fluoranthene	19.091	252	248573	4.39	ug/ml	97
84) Benzo(a)pyrene	19.631	252	226228	4.47	ug/ml	99
85) Indeno(1,2,3-cd)pyrene	21.909	276	190117	4.48	ug/ml	97
86) Dibenz(a,h)anthracene	21.936	278	152664	4.30	ug/ml	98
87) Benzo(g,h,i)perylene	22.524	276	151051	6.97	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13335.D
Acq On : 23 Sep 2009 11:52 am
Operator : sheilac
Sample : ic615-5
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 23 12:32:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:30:02 2009
Response via : Initial Calibration

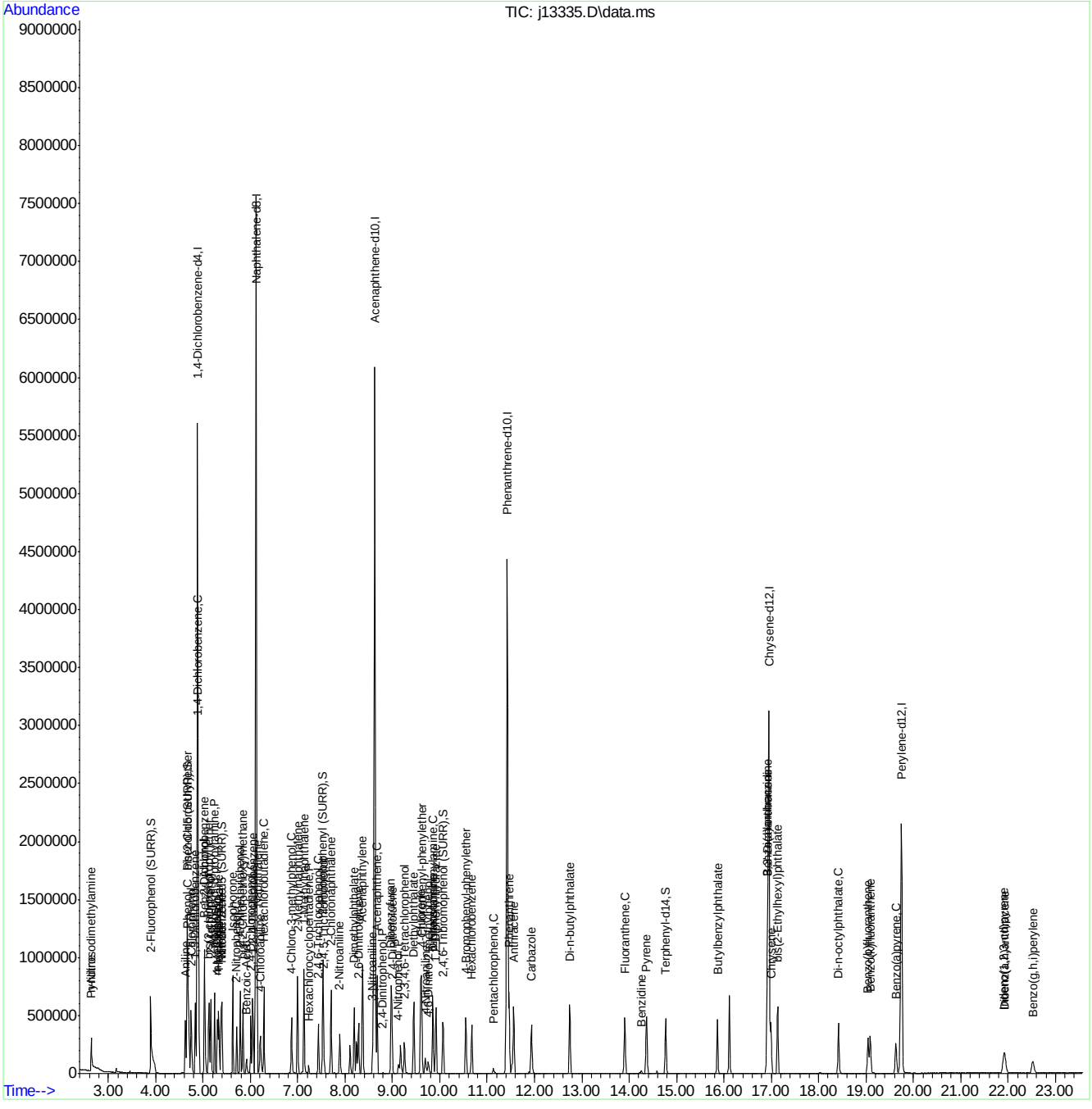
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13335.D
Acq On : 23 Sep 2009 11:52 am
Operator : sheilac
Sample : ic615-5
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 23 12:32:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:30:02 2009
Response via : Initial Calibration

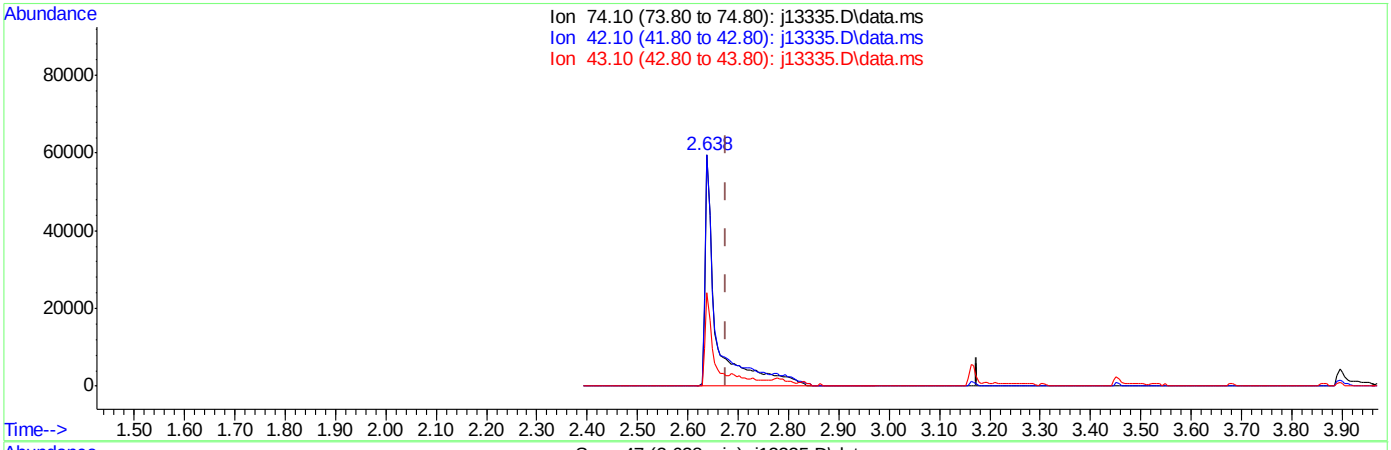


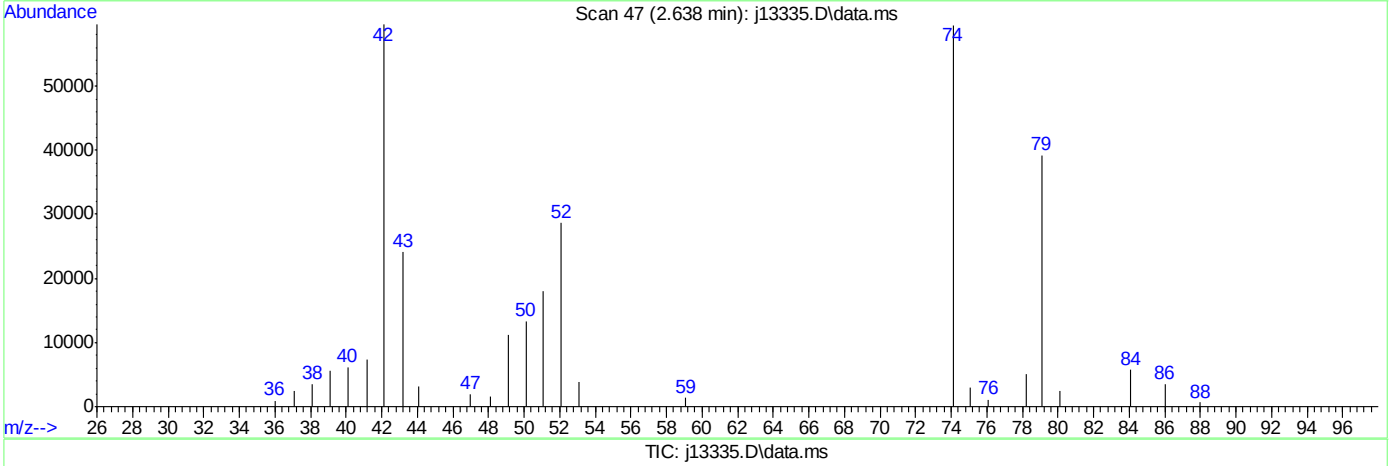
ACCUTEST Laboratories T39423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13335.D
Acq On : 23 Sep 2009 11:52 am
Operator : sheilac
Sample : ic615-5
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 23 12:32:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:30:02 2009
Response via : Initial Calibration





TIC: j13335.D\data.ms

(2) n-Nitrosodimethylamine

2.638min (-0.038) 4.68ug/ml m

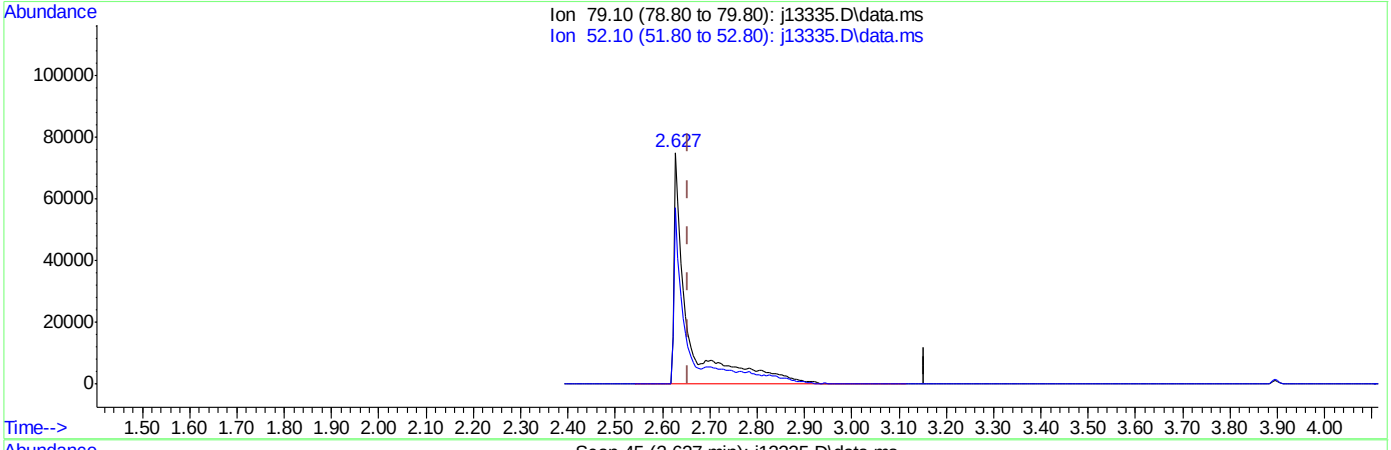
response 93609

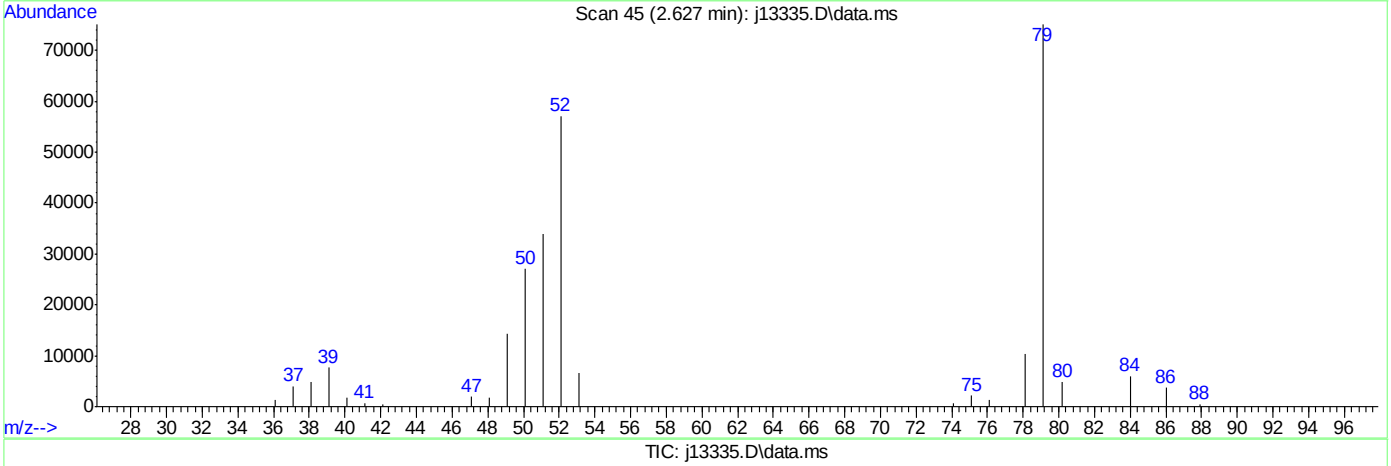
Ion	Exp%	Act%
74.10	100	100
42.10	97.90	93.95
43.10	40.50	28.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13335.D
Acq On : 23 Sep 2009 11:52 am
Operator : sheilac
Sample : ic615-5
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 23 12:32:14 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:30:02 2009
Response via : Initial Calibration





TIC: j13335.D\data.ms

(3) Pyridine

2.627min (-0.027) 4.54ug/ml m

response 156059

Ion	Exp%	Act%
79.10	100	100
52.10	45.00	45.91
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13336.D
Acq On : 23 Sep 2009 12:23 pm
Operator : sheilac
Sample : ic615-10
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 13:15:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:40:09 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.879	152	438746	40.00	ug/ml	0.00
20) Naphthalene-d8	6.115	136	1627703	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.618	164	870467	40.00	ug/ml	-0.01
57) Phenanthrene-d10	11.415	188	1252710	40.00	ug/ml	-0.01
71) Chrysene-d12	16.940	240	1041785	40.00	ug/ml	-0.01
80) Perylene-d12	19.743	264	808724	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.895	112	258871	16.38	ug/ml	0.02
Spiked Amount 100.000	Range 23 - 110		Recovery = 16.38%#			
5) Phenol-d5 (SURR)	4.665	99	322025	16.14	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 114		Recovery = 16.14%#			
21) Nitrobenzene-d5 (SURR)	5.382	82	161623	8.40	ug/ml	-0.01
Spiked Amount 50.000	Range 36 - 126		Recovery = 16.80%#			
40) 2-Fluorobiphenyl (SURR)	7.527	172	296532	7.86	ug/ml	-0.02
Spiked Amount 50.000	Range 34 - 132		Recovery = 15.72%#			
62) 2,4,6-Tribromophenol (...	10.067	330	62678	13.68	ug/ml	-0.03
Spiked Amount 100.000	Range 33 - 138		Recovery = 13.68%#			
74) Terphenyl-d14	14.774	244	220022	8.19	ug/ml	-0.01
Spiked Amount 50.000	Range 46 - 136		Recovery = 16.38%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.633	74	72101	8.48	ug/ml	92
3) Pyridine	2.622	79	120863m	7.89	ug/ml	
6) Phenol	4.681	94	174873	8.10	ug/ml	95
7) Aniline	4.622	93	168881	7.95	ug/ml	94
8) bis(2-Chloroethyl)ether	4.665	93	177684	8.53	ug/ml	98
9) 2-Chlorophenol	4.745	128	136759	8.44	ug/ml	99
10) 1,3-Dichlorobenzene	4.831	146	155349	8.44	ug/ml	99
11) 1,4-Dichlorobenzene	4.895	146	165674	8.49	ug/ml	98
12) Benzyl Alcohol	5.024	108	89752	8.01	ug/ml	97
13) 1,2-Dichlorobenzene	5.029	146	151362	8.28	ug/ml	100
14) 2-Methylphenol	5.163	108	125342	8.70	ug/ml	98
15) bis(2-chloroisopropyl)...	5.120	45	243853	9.25	ug/ml	98
16) 4-Methylphenol	5.302	108	126943	8.54	ug/ml	100
17) m+p-Cresols	5.302	108	126943	8.54	ug/ml	100
18) n-Nitroso-di-n-propyla...	5.243	70	121231	8.78	ug/ml	99
19) Hexachloroethane	5.328	117	59495	8.30	ug/ml	99
22) Nitrobenzene	5.398	77	160329	8.48	ug/ml	98
23) Isophorone	5.628	82	298019	8.60	ug/ml	99
24) 2-Nitrophenol	5.708	139	63247	7.71	ug/ml	98
25) 2,4-Dimethylphenol	5.783	122	113813	7.89	ug/ml	100
26) bis(2-Chloroethoxy)met...	5.842	93	160453	8.43	ug/ml	100
27) Benzoic Acid	5.911	105	35456	5.60	ug/ml	98
28) 2,4-Dichlorophenol	6.008	162	95089	7.85	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.051	180	120898	8.15	ug/ml	99
30) Naphthalene	6.136	128	405301	8.24	ug/ml	100
31) 4-Chloroaniline	6.206	127	126170	7.66	ug/ml	98
32) Hexachlorobutadiene	6.286	225	77068	8.24	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13336.D
Acq On : 23 Sep 2009 12:23 pm
Operator : sheilac
Sample : ic615-10
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 13:15:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:40:09 2009
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33)	4-Chloro-3-methylphenol	6.869	107	107401	7.80	ug/ml	100
34)	2-Methylnaphthalene	6.997	142	242892	8.15	ug/ml	100
35)	1-Methylnaphthalene	7.131	142	254986	8.17	ug/ml	100
37)	Hexachlorocyclopentadiene	7.233	237	6154	2.13	ug/ml#	19
38)	2,4,6-Trichlorophenol	7.436	196	59675	7.37	ug/ml	99
39)	2,4,5-Trichlorophenol	7.543	196	60186	6.96	ug/ml	100
41)	2-Chloronaphthalene	7.703	162	218829	8.07	ug/ml	99
42)	2-Nitroaniline	7.885	65	75946	8.18	ug/ml	98
43)	Dimethylphthalate	8.190	163	282079	8.49	ug/ml	100
44)	Acenaphthylene	8.366	152	381060	8.17	ug/ml	100
45)	2,6-Dinitrotoluene	8.281	165	62071	8.11	ug/ml	88
46)	3-Nitroaniline	8.580	138	48355	7.65	ug/ml#	83
47)	Acenaphthene	8.671	154	224618	8.28	ug/ml	99
48)	2,4-Dinitrophenol	8.789	184	1160m	0.75	ug/ml	
49)	4-Nitrophenol	9.126	65	34262	9.11	ug/ml#	75
50)	Dibenzofuran	8.976	168	312182	8.08	ug/ml	100
51)	2,4-Dinitrotoluene	8.987	165	73063	7.78	ug/ml#	69
52)	2,3,4,6-Tetrachlorophenol	9.254	232	44591	6.85	ug/ml	98
53)	Diethylphthalate	9.452	149	284682	8.28	ug/ml	100
54)	Fluorene	9.597	166	263317	7.84	ug/ml	100
55)	4-Chlorophenyl-phenyle...	9.618	204	127435	7.90	ug/ml	100
56)	4-Nitroaniline	9.693	138	40517	7.46	ug/ml	98
58)	1,2-Diphenylhydrazine	9.918	77	294772	8.58	ug/ml	99
59)	4,6-Dinitro-2-methylph...	9.757	198	17449	8.55	ug/ml	97
60)	Diphenylamine	9.853	169	210824	8.35	ug/ml	100
61)	n-Nitrosodiphenylamine	9.853	169	210824	8.35	ug/ml	100
63)	4-Bromophenyl-phenylether	10.554	248	71125	8.29	ug/ml	100
64)	Hexachlorobenzene	10.677	284	80790	8.62	ug/ml	99
65)	Pentachlorophenol	11.126	266	10758	2.91	ug/ml	98
66)	Phenanthrene	11.458	178	344061	8.41	ug/ml	99
67)	Anthracene	11.560	178	327120	8.27	ug/ml	100
68)	Carbazole	11.934	167	267649	8.36	ug/ml	99
69)	Di-n-butylphthalate	12.747	149	435135	8.77	ug/ml	100
70)	Fluoranthene	13.908	202	322270	8.53	ug/ml	100
72)	Benzidine	14.255	184	59343	6.68	ug/ml#	95
73)	Pyrene	14.368	202	337027	8.43	ug/ml	100
75)	Butylbenzylphthalate	15.865	149	156729	8.56	ug/ml	99
76)	Benzo(a)anthracene	16.919	228	278566	8.52	ug/ml	100
77)	3,3'-Dichlorobenzidine	16.919	252	74079	10.23	ug/ml	97
78)	Chrysene	16.988	228	242960	8.64	ug/ml	99
79)	bis(2-Ethylhexyl)phtha...	17.138	149	222888	9.12	ug/ml	99
81)	Di-n-octylphthalate	18.422	149	308929	7.33	ug/ml#	97
82)	Benzo(b)fluoranthene	19.042	252	224706	7.78	ug/ml	100
83)	Benzo(k)fluoranthene	19.096	252	225043	8.01	ug/ml	99
84)	Benzo(a)pyrene	19.631	252	201067	7.91	ug/ml	100
85)	Indeno(1,2,3-cd)pyrene	21.909	276	186731	8.27	ug/ml	99
86)	Dibenz(a,h)anthracene	21.936	278	150717	8.17	ug/ml	99
87)	Benzo(g,h,i)perylene	22.524	276	152191	8.99	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13336.D
Acq On : 23 Sep 2009 12:23 pm
Operator : sheilac
Sample : ic615-10
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 13:15:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:40:09 2009
Response via : Initial Calibration

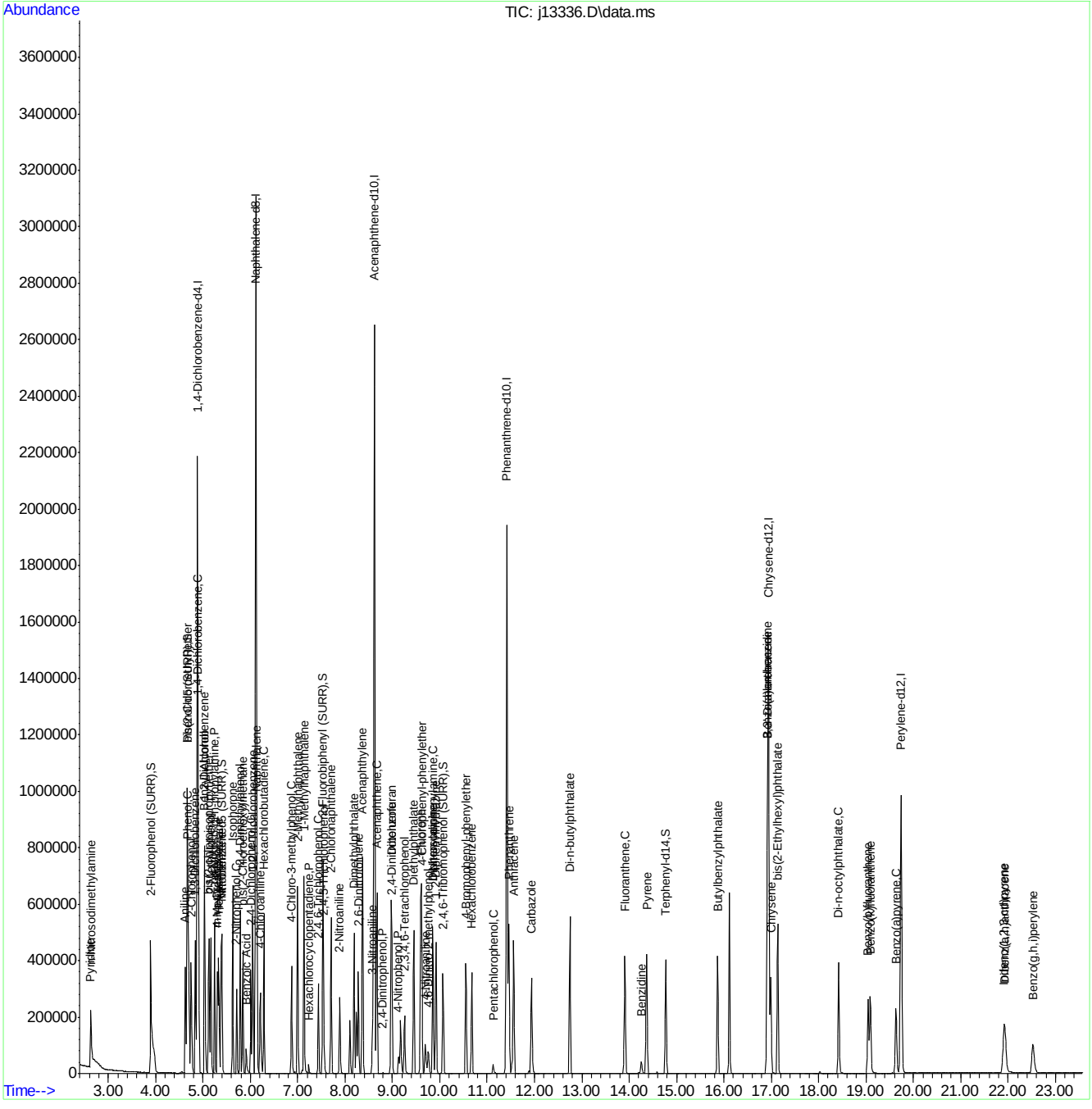
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13336.D
Acq On : 23 Sep 2009 12:23 pm
Operator : sheilac
Sample : ic615-10
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 13:15:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 12:40:09 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13336.D
Acq On    : 23 Sep 2009  12:23 pm
Operator  : sheilac
Sample    : ic615-10
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 5   Sample Multiplier: 1

Quant Time: Sep 23 13:15:21 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 12:40:09 2009
Response via : Initial Calibration
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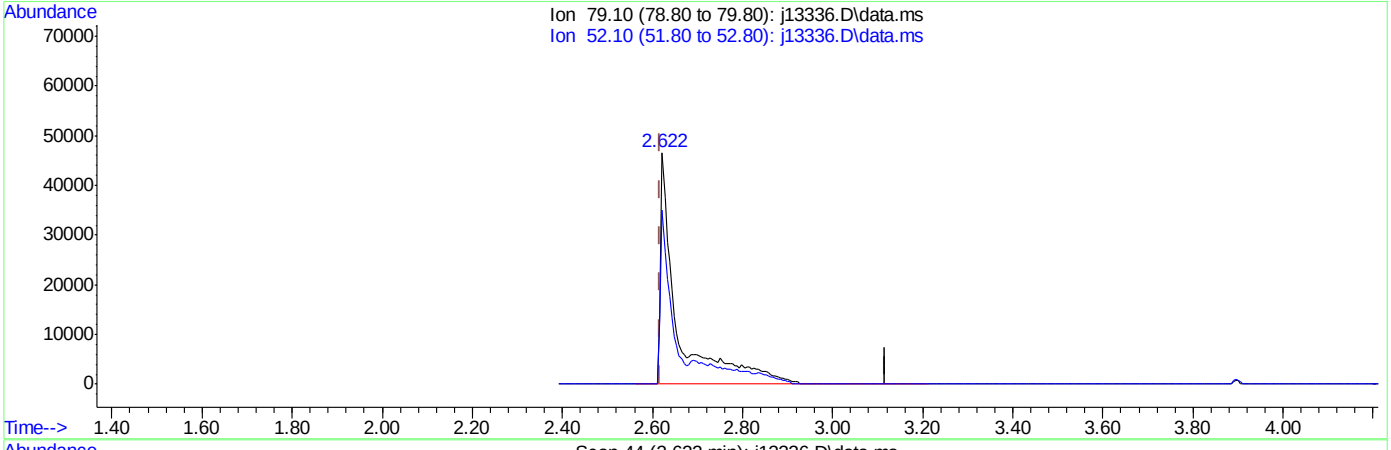
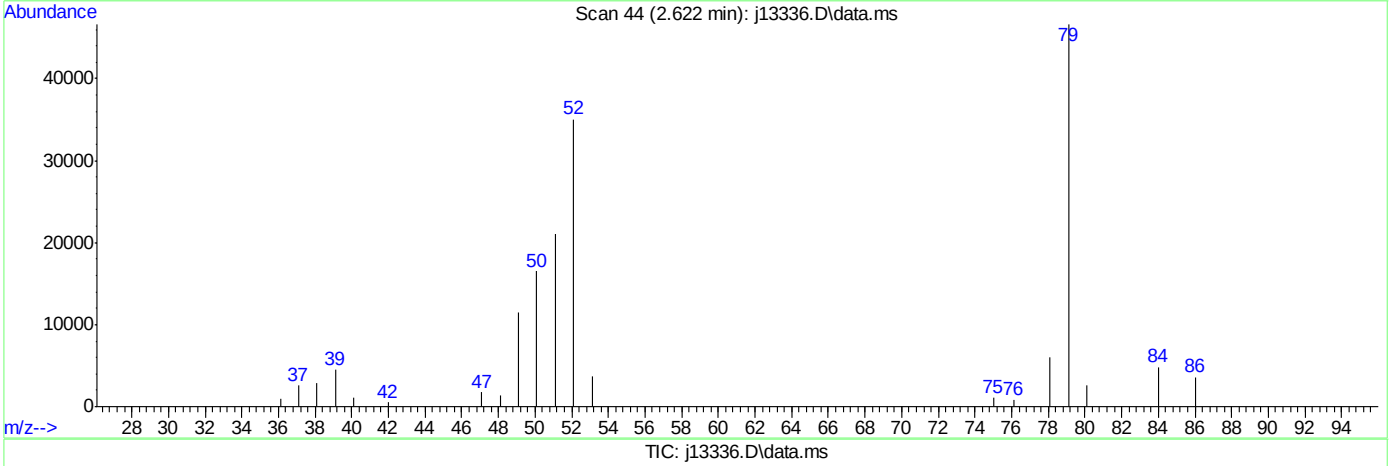




(3) Pyridine

2.622min (+0.005) 7.89ug/ml m

response 120863

Ion	Exp%	Act%
79.10	100	100
52.10	48.30	43.03
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.885	152	576826	40.00	ug/ml	0.00
20) Naphthalene-d8	6.120	136	2141894	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.623	164	1134750	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.426	188	1652005	40.00	ug/ml	0.01
71) Chrysene-d12	16.946	240	1183011	40.00	ug/ml	0.00
80) Perylene-d12	19.743	264	760056	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.884	112	882461	44.49	ug/ml	-0.01
Spiked Amount 100.000	Range 23 - 110		Recovery = 44.49%			
5) Phenol-d5 (SURR)	4.655	99	1148563	46.01	ug/ml	-0.01
Spiked Amount 100.000	Range 23 - 114		Recovery = 46.01%			
21) Nitrobenzene-d5 (SURR)	5.387	82	552027	22.72	ug/ml	0.00
Spiked Amount 50.000	Range 36 - 126		Recovery = 45.44%			
40) 2-Fluorobiphenyl (SURR)	7.532	172	1081356	23.22	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 132		Recovery = 46.44%			
62) 2,4,6-Tribromophenol (...	10.078	330	248590	43.92	ug/ml	0.01
Spiked Amount 100.000	Range 33 - 138		Recovery = 43.92%			
74) Terphenyl-d14	14.780	244	715852	24.58	ug/ml	0.00
Spiked Amount 50.000	Range 46 - 136		Recovery = 49.16%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.638	74	244369	22.73	ug/ml	98
3) Pyridine	2.622	79	412969m	21.64	ug/ml	
6) Phenol	4.671	94	626171	23.17	ug/ml	98
7) Aniline	4.628	93	623162	23.53	ug/ml	97
8) bis(2-Chloroethyl)ether	4.671	93	610707	23.16	ug/ml	99
9) 2-Chlorophenol	4.745	128	471547	23.03	ug/ml	99
10) 1,3-Dichlorobenzene	4.836	146	528572	22.74	ug/ml	99
11) 1,4-Dichlorobenzene	4.895	146	566630	22.95	ug/ml	99
12) Benzyl Alcohol	5.029	108	327219	23.39	ug/ml	99
13) 1,2-Dichlorobenzene	5.029	146	526034	22.87	ug/ml	100
14) 2-Methylphenol	5.163	108	428457	23.37	ug/ml	99
15) bis(2-chloroisopropyl)...	5.125	45	790424	23.25	ug/ml	99
16) 4-Methylphenol	5.296	108	436035	23.17	ug/ml	99
17) m+p-Cresols	5.296	108	436035	23.17	ug/ml	99
18) n-Nitroso-di-n-propyla...	5.254	70	408001	23.19	ug/ml	100
19) Hexachloroethane	5.334	117	205708	22.81	ug/ml	99
22) Nitrobenzene	5.403	77	547705	22.89	ug/ml	99
23) Isophorone	5.639	82	1004753	22.84	ug/ml	99
24) 2-Nitrophenol	5.714	139	235096	23.10	ug/ml	98
25) 2,4-Dimethylphenol	5.788	122	401465	22.33	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.847	93	550999	22.89	ug/ml	100
27) Benzoic Acid	5.954	105	188007	25.35	ug/ml	97
28) 2,4-Dichlorophenol	6.002	162	345112	22.87	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.056	180	422800	22.70	ug/ml	99
30) Naphthalene	6.141	128	1408745	22.77	ug/ml	100
31) 4-Chloroaniline	6.211	127	415356	20.35	ug/ml	96
32) Hexachlorobutadiene	6.286	225	266684	22.66	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.864	107	391494	22.87 ug/ml	100
34) 2-Methylnaphthalene	7.003	142	856183	22.88 ug/ml	100
35) 1-Methylnaphthalene	7.136	142	893157	22.78 ug/ml	100
37) Hexachlorocyclopentadiene	7.233	237	80435	26.64 ug/ml	99
38) 2,4,6-Trichlorophenol	7.436	196	227827	23.11 ug/ml	99
39) 2,4,5-Trichlorophenol	7.532	196	248665	23.88 ug/ml	98
41) 2-Chloronaphthalene	7.709	162	776730	23.08 ug/ml	100
42) 2-Nitroaniline	7.896	65	270784	23.43 ug/ml	99
43) Dimethylphthalate	8.211	163	944794	22.66 ug/ml	100
44) Acenaphthylene	8.377	152	1345047	23.19 ug/ml	100
45) 2,6-Dinitrotoluene	8.297	165	216563	22.77 ug/ml	87
46) 3-Nitroaniline	8.596	138	157782	20.34 ug/ml	95
47) Acenaphthene	8.682	154	779169	23.02 ug/ml	100
48) 2,4-Dinitrophenol	8.784	184	40826	26.20 ug/ml	95
49) 4-Nitrophenol	9.105	65	108283	22.59 ug/ml	97
50) Dibenzofuran	8.982	168	1101332	22.97 ug/ml	100
51) 2,4-Dinitrotoluene	9.003	165	265741	22.98 ug/ml#	70
52) 2,3,4,6-Tetrachlorophenol	9.254	232	183758	23.51 ug/ml	99
53) Diethylphthalate	9.468	149	967081	22.55 ug/ml	100
54) Fluorene	9.607	166	941580	22.73 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.623	204	451961	22.68 ug/ml	100
56) 4-Nitroaniline	9.720	138	145753m	21.98 ug/ml	
58) 1,2-Diphenylhydrazine	9.928	77	1001926	22.77 ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.768	198	100756	21.76 ug/ml	97
60) Diphenylamine	9.869	169	733939	22.78 ug/ml	100
61) n-Nitrosodiphenylamine	9.869	169	733939	22.78 ug/ml	100
63) 4-Bromophenyl-phenylether	10.559	248	247018	22.61 ug/ml	100
64) Hexachlorobenzene	10.682	284	271309	22.58 ug/ml	100
65) Pentachlorophenol	11.126	266	73730	18.36 ug/ml	98
66) Phenanthrene	11.469	178	1179677	22.59 ug/ml	100
67) Anthracene	11.570	178	1130479	22.45 ug/ml	100
68) Carbazole	11.939	167	864484	21.16 ug/ml	99
69) Di-n-butylphthalate	12.752	149	1423397	22.31 ug/ml	100
70) Fluoranthene	13.913	202	1067679	22.08 ug/ml	100
72) Benzidine	14.261	184	87648	9.47 ug/ml#	98
73) Pyrene	14.373	202	1088938	24.96 ug/ml	100
75) Butylbenzylphthalate	15.871	149	485737	24.22 ug/ml	99
76) Benzo(a)anthracene	16.924	228	812974	22.74 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.930	252	138669	16.76 ug/ml	96
78) Chrysene	16.994	228	708906	22.98 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.138	149	651935	24.03 ug/ml	100
81) Di-n-octylphthalate	18.427	149	896856	24.26 ug/ml#	100
82) Benzo(b)fluoranthene	19.053	252	582784	22.73 ug/ml	100
83) Benzo(k)fluoranthene	19.101	252	575526	22.94 ug/ml	100
84) Benzo(a)pyrene	19.636	252	510132	22.54 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.915	276	456792	22.49 ug/ml	100
86) Dibenz(a,h)anthracene	21.947	278	371245	22.44 ug/ml	99
87) Benzo(g,h,i)perylene	22.535	276	360667	20.63 ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

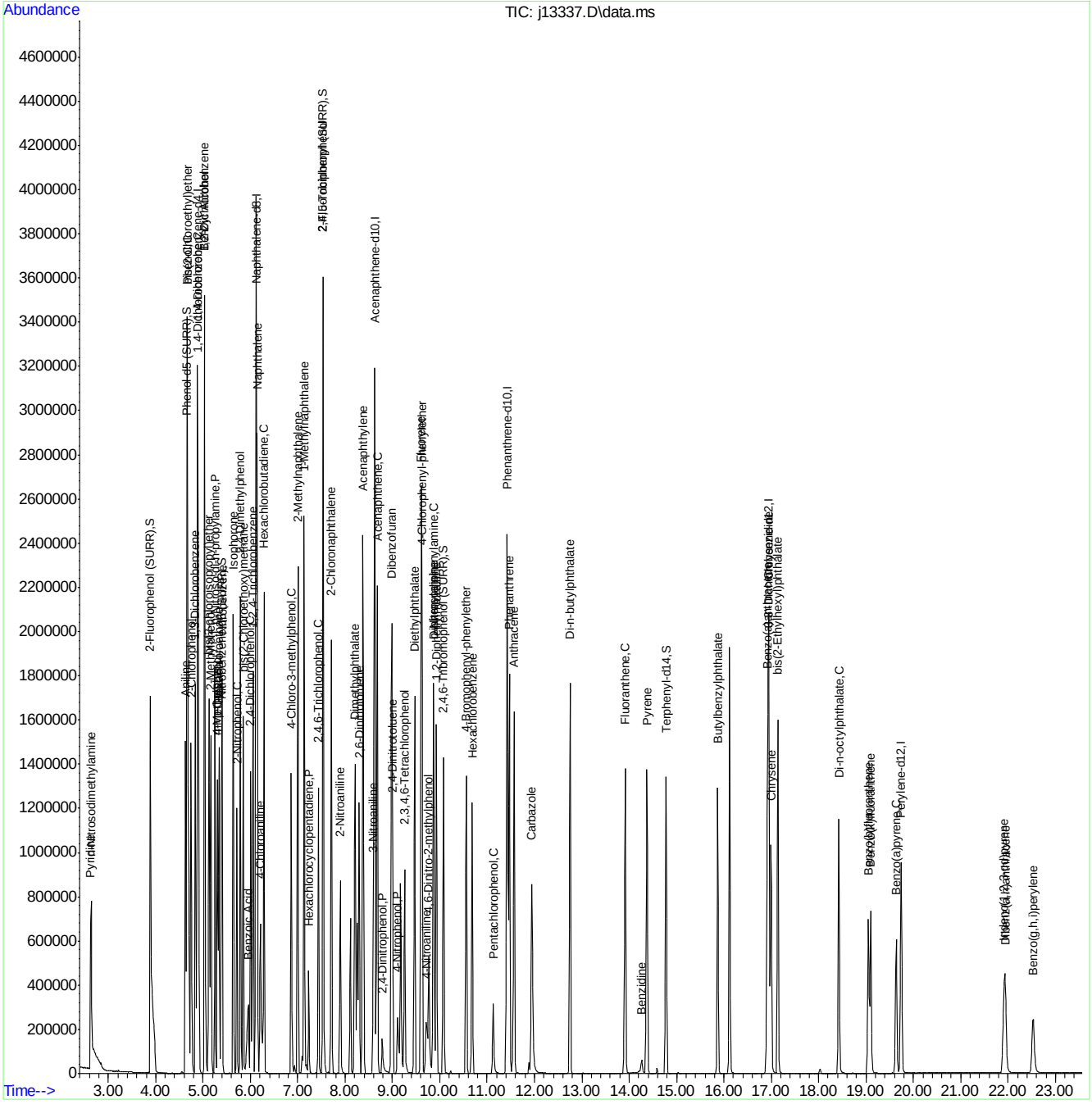
8.6.17

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On    : 23 Sep 2009  12:53 pm
Operator  : sheilac
Sample    : ic615-25
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration
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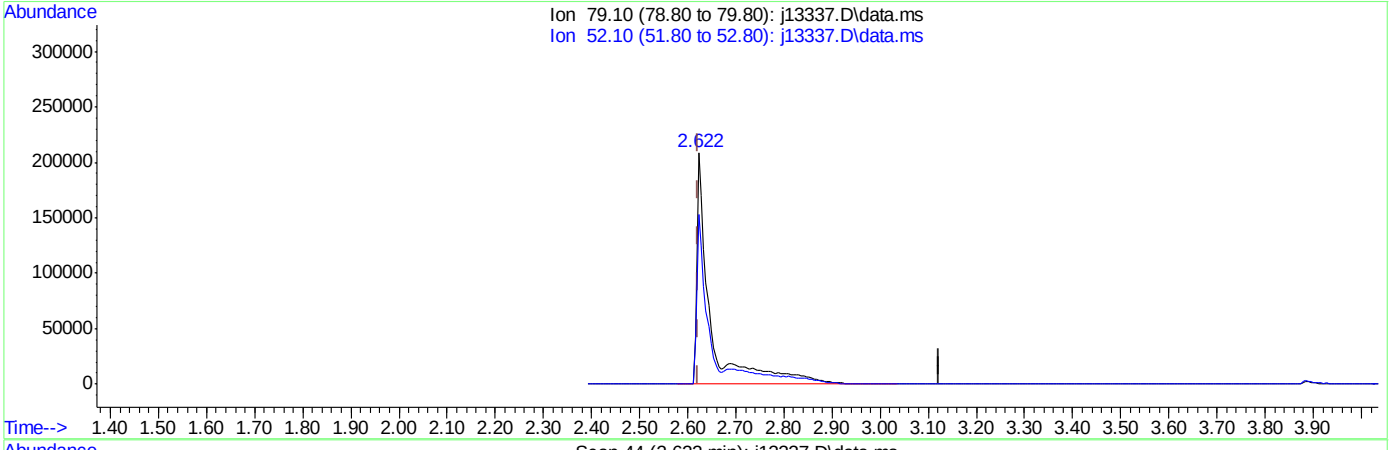
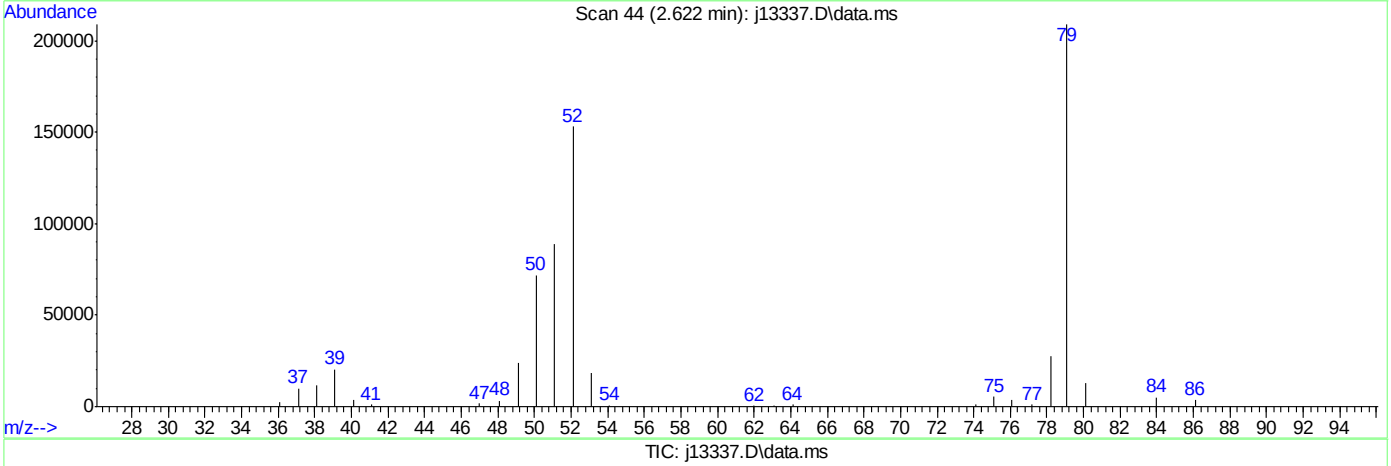




(3) Pyridine

2.622min (+0.000) 21.64ug/ml m

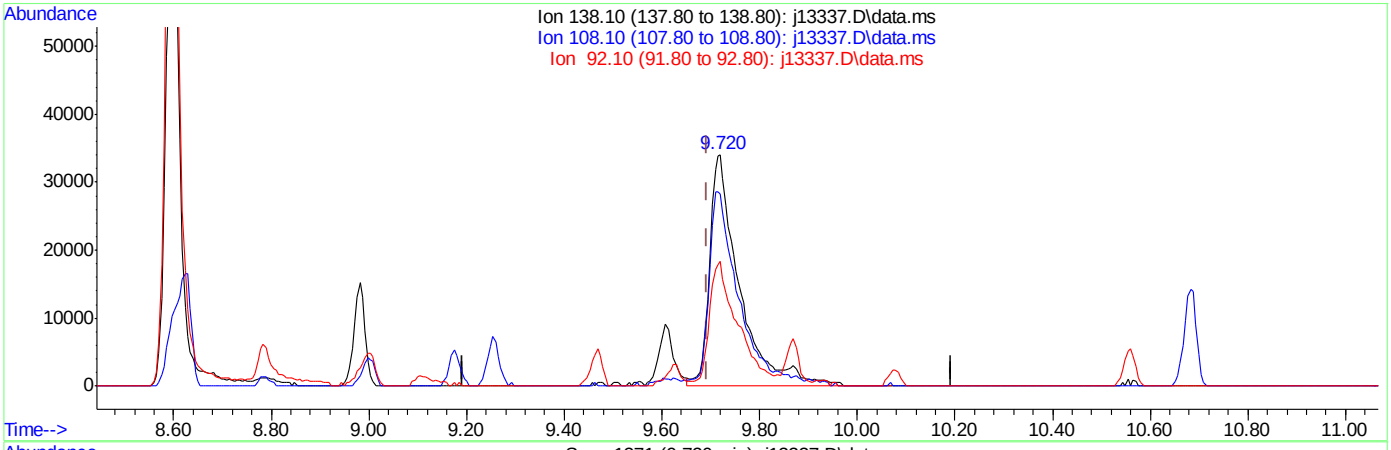
response 412969

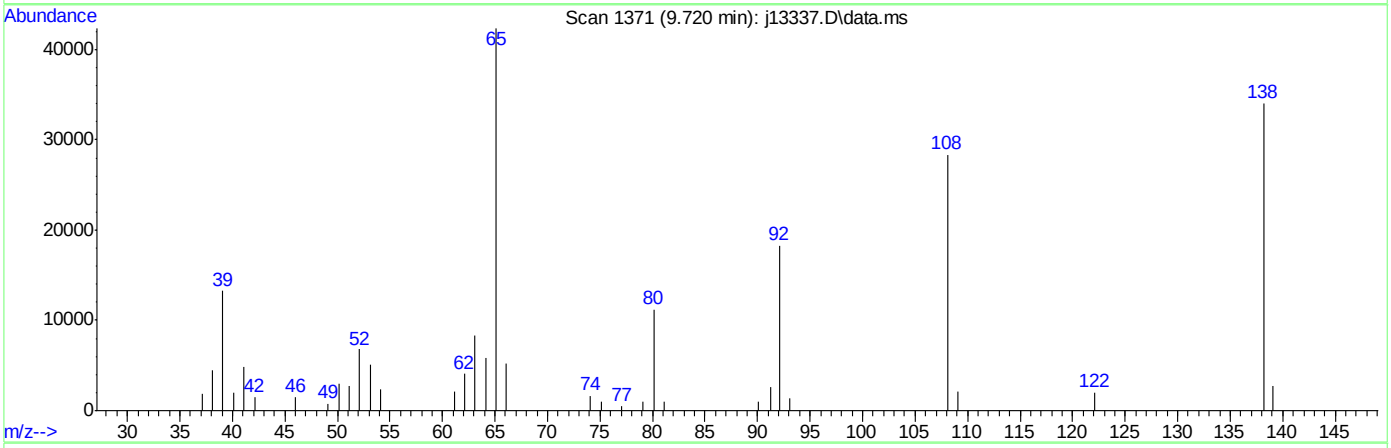
Ion	Exp%	Act%
79.10	100	100
52.10	48.30	48.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13337.D
Acq On : 23 Sep 2009 12:53 pm
Operator : sheilac
Sample : ic615-25
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 23 14:32:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:15:48 2009
Response via : Initial Calibration





TIC: j13337.D\data.ms

(56) 4-Nitroaniline

9.720min (+0.027) 21.98ug/ml m

response 145753

Ion	Exp%	Act%
138.10	100	100
108.10	87.60	75.98
92.10	53.80	49.30
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.890	152	653336	40.00	ug/ml	0.00
20) Naphthalene-d8	6.136	136	2372869	40.00	ug/ml	0.02
36) Acenaphthene-d10	8.645	164	1357741	40.00	ug/ml	0.02
57) Phenanthrene-d10	11.447	188	1892973	40.00	ug/ml	0.02
71) Chrysene-d12	16.978	240	1520338	40.00	ug/ml	0.03
80) Perylene-d12	19.759	264	820076	40.00	ug/ml	0.02
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.885	112	4167420	189.67	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 110		Recovery = 189.67%#			
5) Phenol-d5 (SURR)	4.676	99	4881596	175.46	ug/ml	0.02
Spiked Amount 100.000	Range 23 - 114		Recovery = 175.46%#			
21) Nitrobenzene-d5 (SURR)	5.414	82	2509457	94.94	ug/ml	0.03
Spiked Amount 50.000	Range 36 - 126		Recovery = 189.88%#			
40) 2-Fluorobiphenyl (SURR)	7.559	172	5603200	102.01	ug/ml	0.03
Spiked Amount 50.000	Range 34 - 132		Recovery = 204.02%#			
62) 2,4,6-Tribromophenol (...	10.132	330	1554070	253.77	ug/ml	0.05
Spiked Amount 100.000	Range 33 - 138		Recovery = 253.77%#			
74) Terphenyl-d14	14.806	244	3757901	100.75	ug/ml	0.03
Spiked Amount 50.000	Range 46 - 136		Recovery = 201.50%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.654	74	1089484	91.14	ug/ml	98
3) Pyridine	2.638	79	1929938	91.77	ug/ml#	63
6) Phenol	4.692	94	2613323	86.65	ug/ml	96
7) Aniline	4.644	93	2814143	94.92	ug/ml	99
8) bis(2-Chloroethyl)ether	4.687	93	2557135	86.89	ug/ml	92
9) 2-Chlorophenol	4.756	128	2175701	95.32	ug/ml	98
10) 1,3-Dichlorobenzene	4.847	146	2473298	95.66	ug/ml	99
11) 1,4-Dichlorobenzene	4.906	146	2669427	97.03	ug/ml	100
12) Benzyl Alcohol	5.067	108	1544241	98.72	ug/ml	97
13) 1,2-Dichlorobenzene	5.045	146	2556187	99.82	ug/ml	100
14) 2-Methylphenol	5.168	108	1965583	95.92	ug/ml	99
15) bis(2-chloroisopropyl)...	5.136	45	3208339	84.50	ug/ml	96
16) 4-Methylphenol	5.323	108	2183458	103.94	ug/ml	99
17) m+p-Cresols	5.323	108	2183458	103.94	ug/ml	99
18) n-Nitroso-di-n-propyla...	5.297	70	1879450	95.71	ug/ml	99
19) Hexachloroethane	5.339	117	995186	99.15	ug/ml	95
22) Nitrobenzene	5.436	77	2459865	94.38	ug/ml	97
23) Isophorone	5.676	82	4520656m	94.39	ug/ml	
24) 2-Nitrophenol	5.735	139	1277524	115.04	ug/ml	97
25) 2,4-Dimethylphenol	5.821	122	1934983	99.26	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.874	93	2525016	96.31	ug/ml	100
27) Benzoic Acid	6.061	105	1116577m	135.53	ug/ml	
28) 2,4-Dichlorophenol	6.024	162	1812719	110.31	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.067	180	2095633	103.48	ug/ml	99
30) Naphthalene	6.163	128	6697331	99.49	ug/ml	100
31) 4-Chloroaniline	6.233	127	2374572	109.09	ug/ml	98
32) Hexachlorobutadiene	6.302	225	1323992	103.47	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.874	107	2026122	108.70 ug/ml	100
34) 2-Methylnaphthalene	7.019	142	4165107	102.22 ug/ml	100
35) 1-Methylnaphthalene	7.163	142	4360809	102.21 ug/ml	100
37) Hexachlorocyclopentadiene	7.243	237	676952	184.93 ug/ml	100
38) 2,4,6-Trichlorophenol	7.457	196	1236425	106.41 ug/ml	99
39) 2,4,5-Trichlorophenol	7.543	196	1422460	115.19 ug/ml	99
41) 2-Chloronaphthalene	7.736	162	3944428	99.50 ug/ml	100
42) 2-Nitroaniline	7.933	65	1259120	92.21 ug/ml	98
43) Dimethylphthalate	8.276	163	4532188	92.59 ug/ml	100
44) Acenaphthylene	8.415	152	6430718	94.03 ug/ml	100
45) 2,6-Dinitrotoluene	8.361	165	1103879	98.77 ug/ml	97
46) 3-Nitroaniline	8.656	138	1012309	113.28 ug/ml	96
47) Acenaphthene	8.720	154	3855974	96.74 ug/ml	100
48) 2,4-Dinitrophenol	8.832	184	412735	219.26 ug/ml	95
49) 4-Nitrophenol	9.110	65	666392m	118.49 ug/ml	
50) Dibenzofuran	9.019	168	5588416	99.03 ug/ml	100
51) 2,4-Dinitrotoluene	9.067	165	1316685	96.72 ug/ml	84
52) 2,3,4,6-Tetrachlorophenol	9.287	232	1049502	113.59 ug/ml	98
53) Diethylphthalate	9.538	149	4800558	95.44 ug/ml	100
54) Fluorene	9.650	166	5021357	103.19 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.661	204	2585640	110.49 ug/ml	96
56) 4-Nitroaniline	9.827	138	879310m	116.71 ug/ml	
58) 1,2-Diphenylhydrazine	9.971	77	5276014	106.84 ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.864	198	653734	99.33 ug/ml	93
60) Diphenylamine	9.934	169	3783863	104.15 ug/ml	98
61) n-Nitrosodiphenylamine	9.934	169	3783863	104.15 ug/ml	98
63) 4-Bromophenyl-phenylether	10.592	248	1291235	105.37 ug/ml	99
64) Hexachlorobenzene	10.725	284	1384001	102.13 ug/ml	98
65) Pentachlorophenol	11.148	266	559890	138.85 ug/ml	97
66) Phenanthrene	11.512	178	5978928	101.64 ug/ml	100
67) Anthracene	11.613	178	5766161	101.94 ug/ml	99
68) Carbazole	11.982	167	4609994	101.43 ug/ml	99
69) Di-n-butylphthalate	12.785	149	7042542	97.86 ug/ml	100
70) Fluoranthene	13.951	202	5295633	97.25 ug/ml	99
72) Benzidine	14.288	184	1570551	150.82 ug/ml	100
73) Pyrene	14.416	202	5283007	94.25 ug/ml	100
75) Butylbenzylphthalate	15.898	149	2379700	92.92 ug/ml	98
76) Benzo(a)anthracene	16.957	228	4435422	98.32 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.957	252	1267345	127.63 ug/ml	98
78) Chrysene	17.042	228	3567591m	91.47 ug/ml	
79) bis(2-Ethylhexyl)phtha...	17.160	149	3269116	94.49 ug/ml	99
81) Di-n-octylphthalate	18.449	149	4536280	114.39 ug/ml	100
82) Benzo(b)fluoranthene	19.091	252	3051122	112.35 ug/ml	99
83) Benzo(k)fluoranthene	19.144	252	2510236m	94.28 ug/ml	
84) Benzo(a)pyrene	19.674	252	2521059	105.32 ug/ml	99
85) Indeno(1,2,3-cd)pyrene	21.952	276	1945284	90.60 ug/ml	99
86) Dibenz(a,h)anthracene	21.984	278	1676636	95.90 ug/ml	100
87) Benzo(g,h,i)perylene	22.573	276	1360221	80.39 ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.18

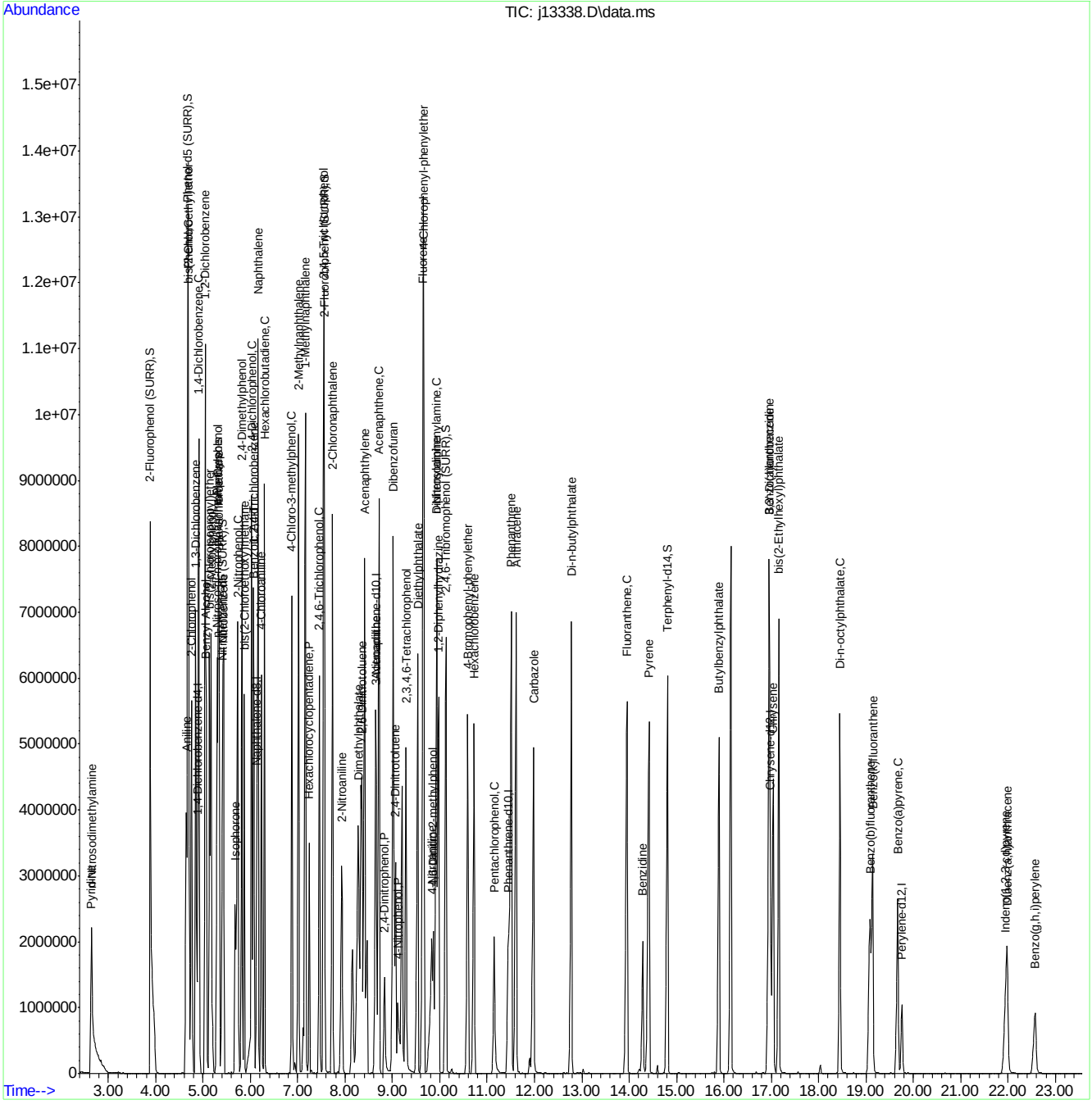
8

ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration

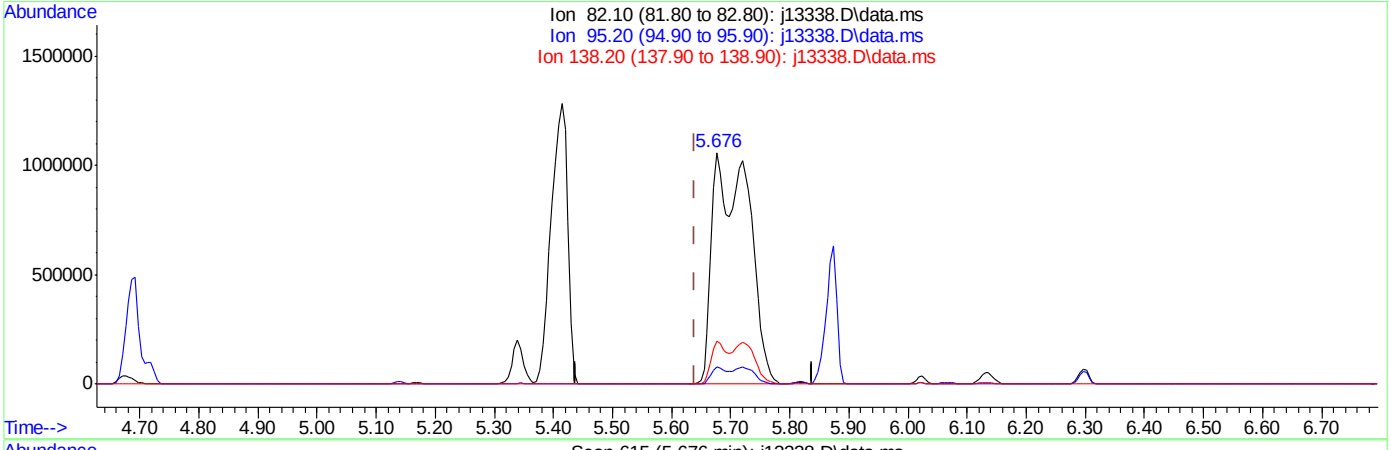


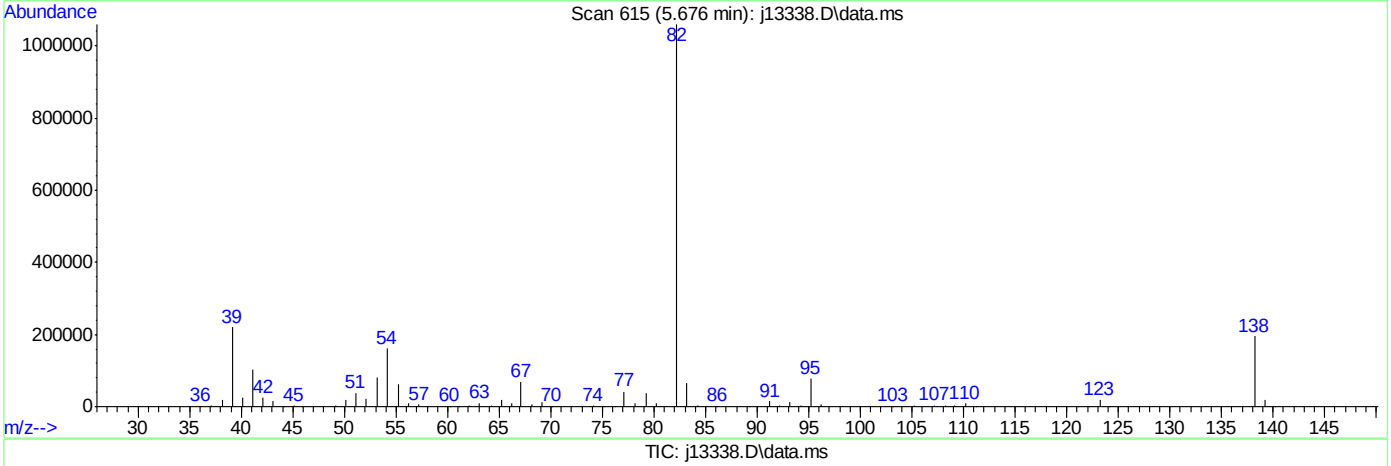
ACCUTEST Laboratories T39423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On    : 23 Sep 2009   1:22 pm
Operator  : sheilac
Sample    : ic615-100
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration
```





TIC: j13338.D\data.ms

(23) Isophorone

5.676min (+0.037) 94.39ug/ml m

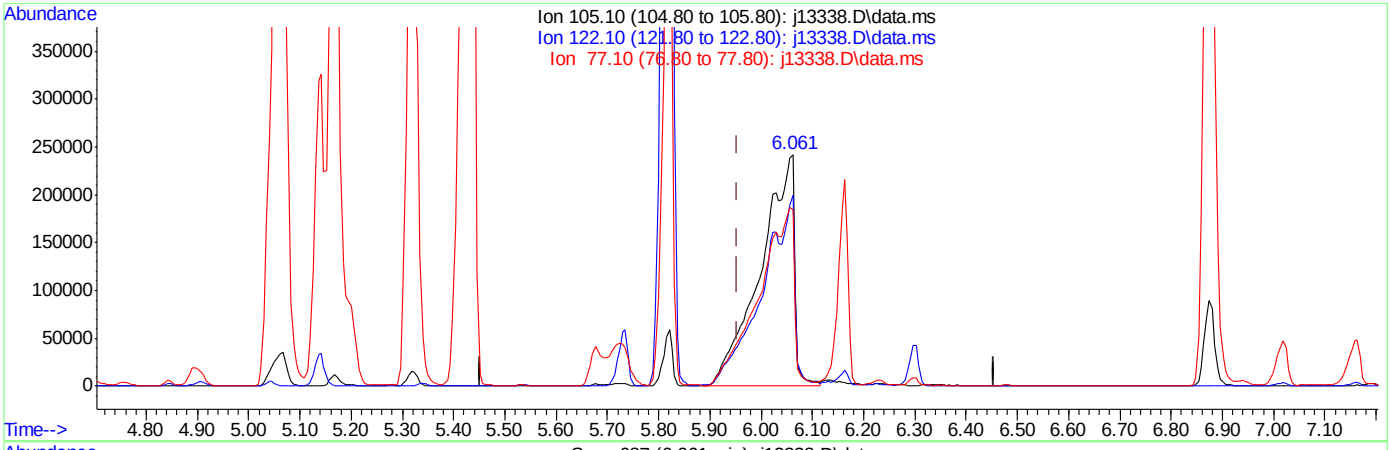
response 4520656

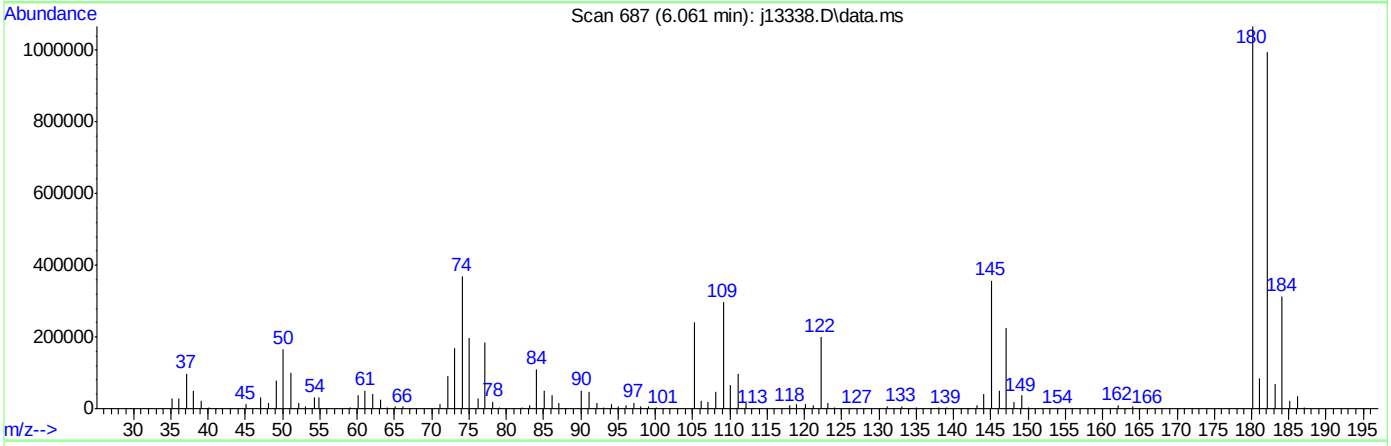
Ion	Exp%	Act%
82.10	100	100
95.20	7.30	3.21
138.20	18.50	8.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration





TIC: j13338.D\data.ms

(27) Benzoic Acid

6.061min (+0.107) 135.53ug/ml m

response 1116577

Ion	Exp%	Act%
105.10	100	100
122.10	75.20	53.58#
77.10	81.90	55.72#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On    : 23 Sep 2009   1:22 pm
Operator  : sheilac
Sample    : ic615-100
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration
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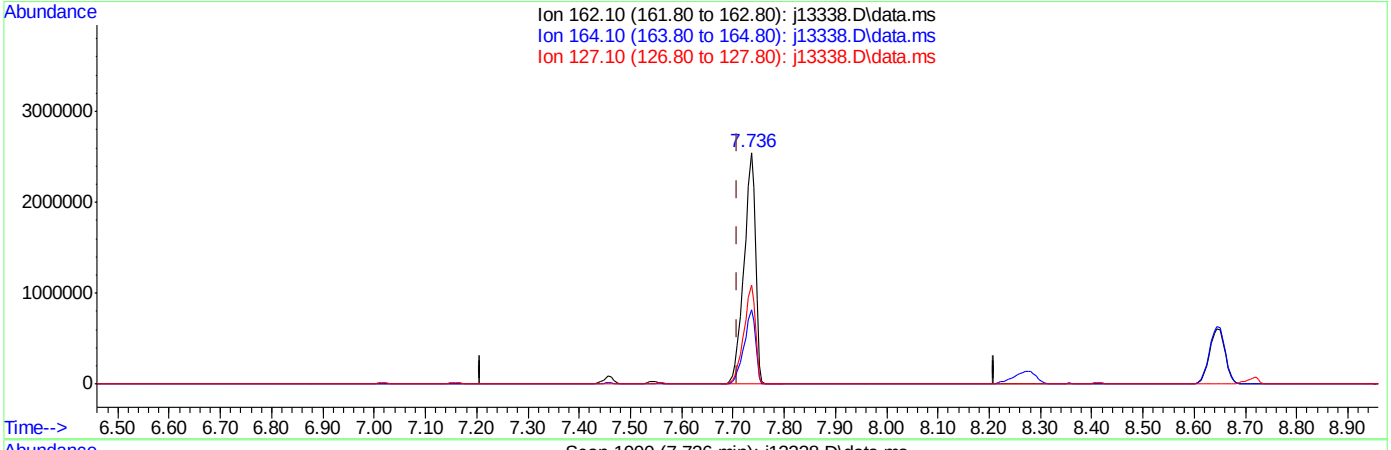
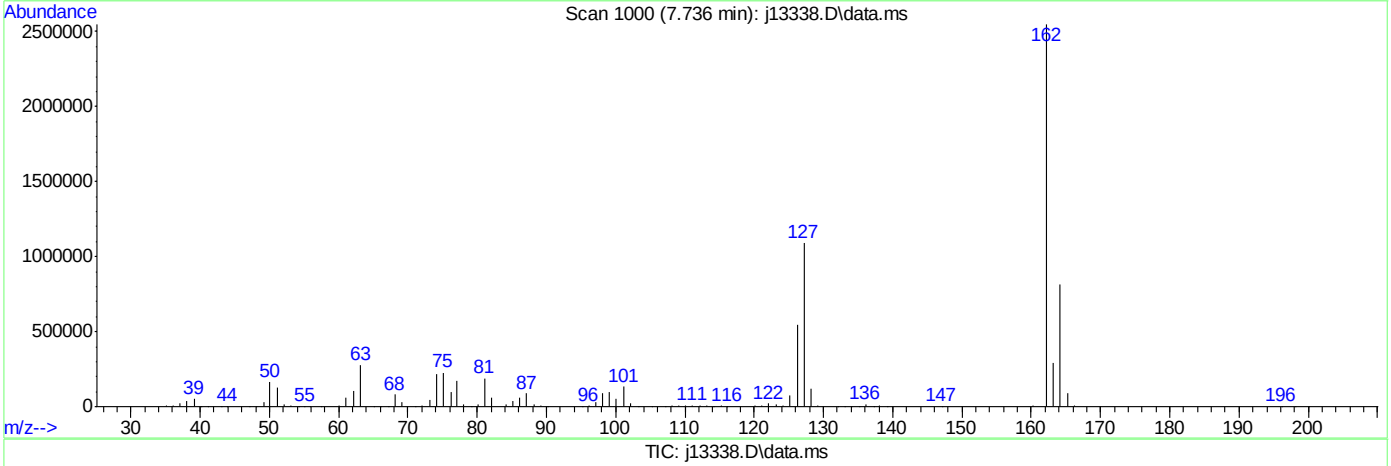




TIC: j13338.D\data.ms

(41) 2-Chloronaphthalene

7.736min (+0.027) 99.50ug/ml

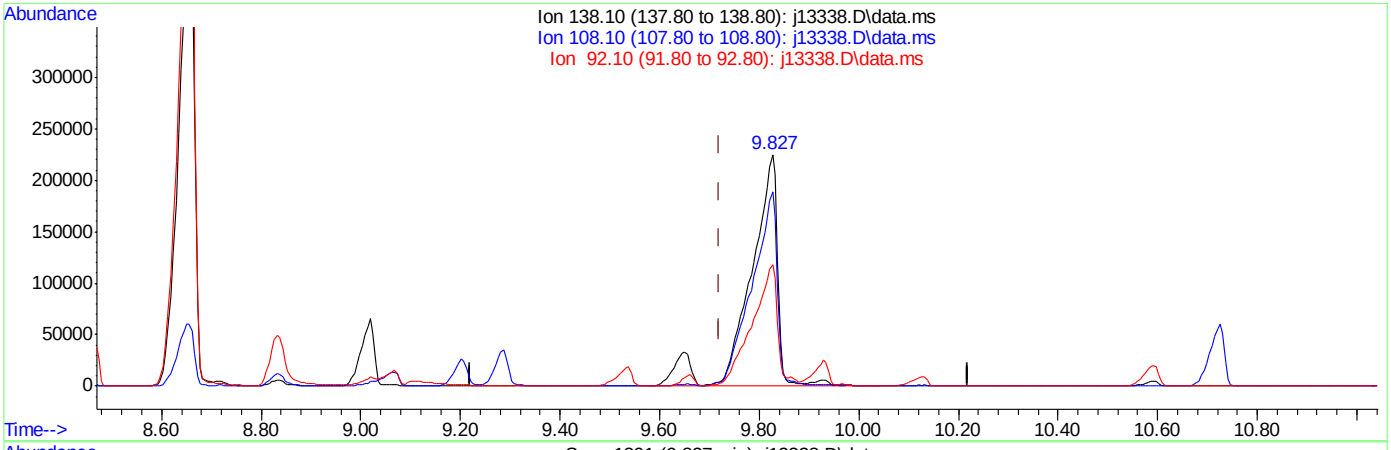
response 3944428

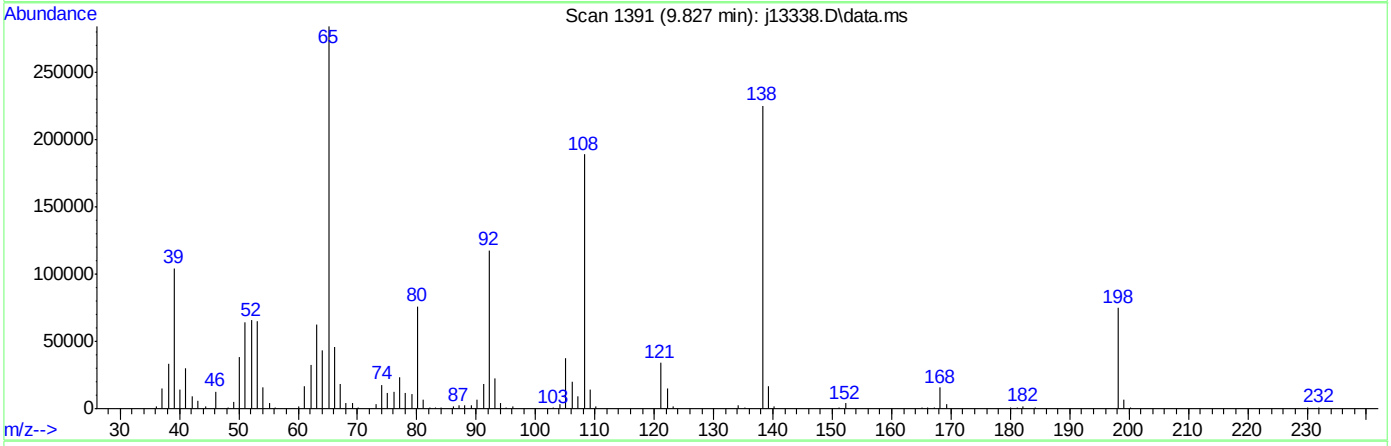
Ion	Exp%	Act%
162.10	100	100
164.10	32.20	32.10
127.10	42.60	42.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration





TIC: j13338.D\data.ms

(56) 4-Nitroaniline

9.827min (+0.107) 116.71ug/ml m

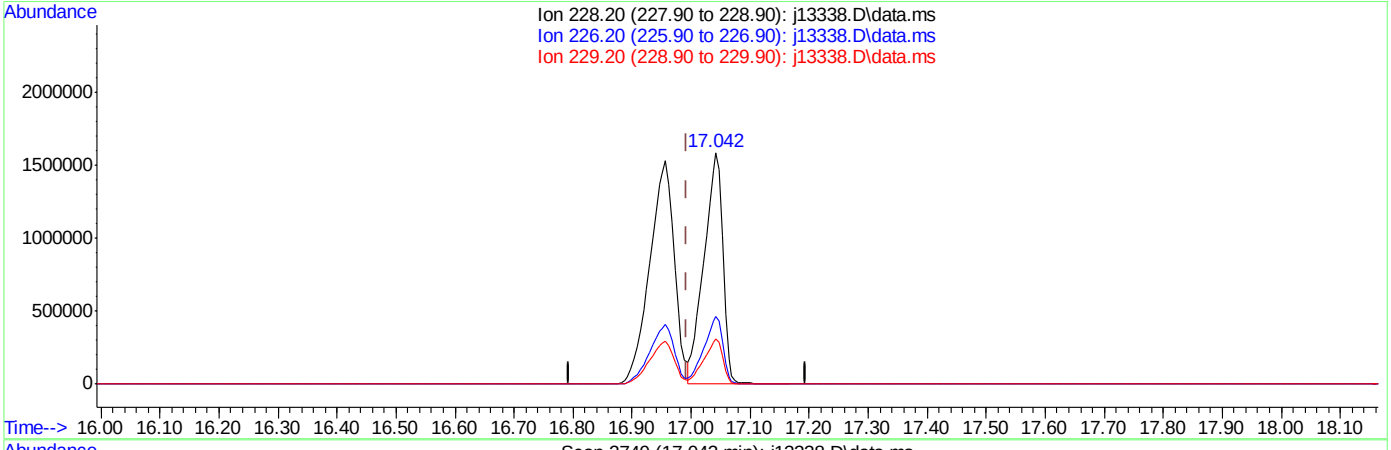
response 879310

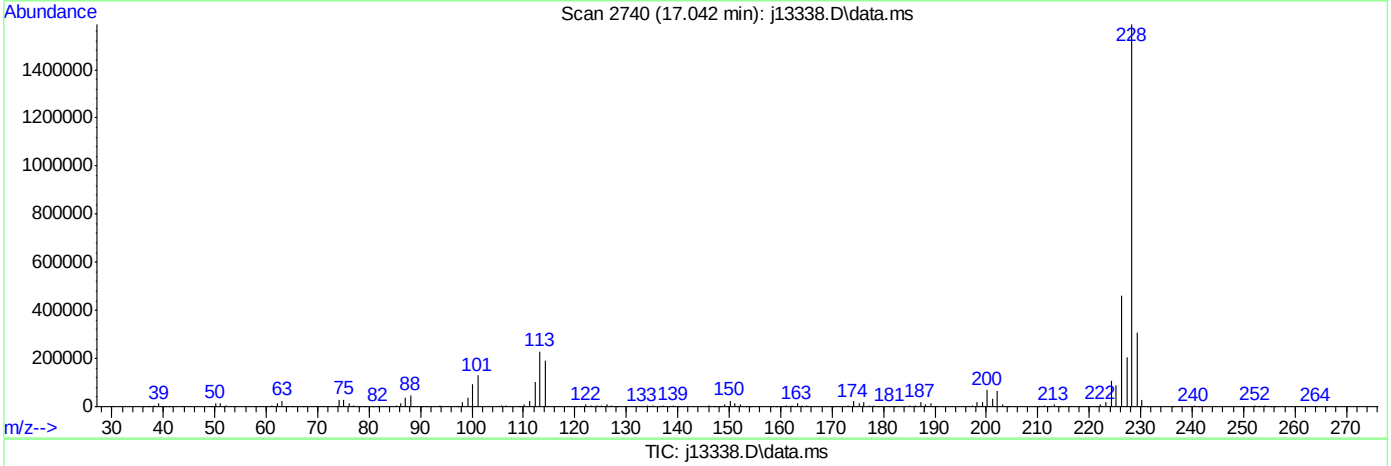
Ion	Exp%	Act%
138.10	100	100
108.10	87.60	75.04
92.10	53.80	48.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration





TIC: j13338.D\data.ms

(78) Chrysene

17.042min (+0.048) 91.47ug/ml m

response 3567591

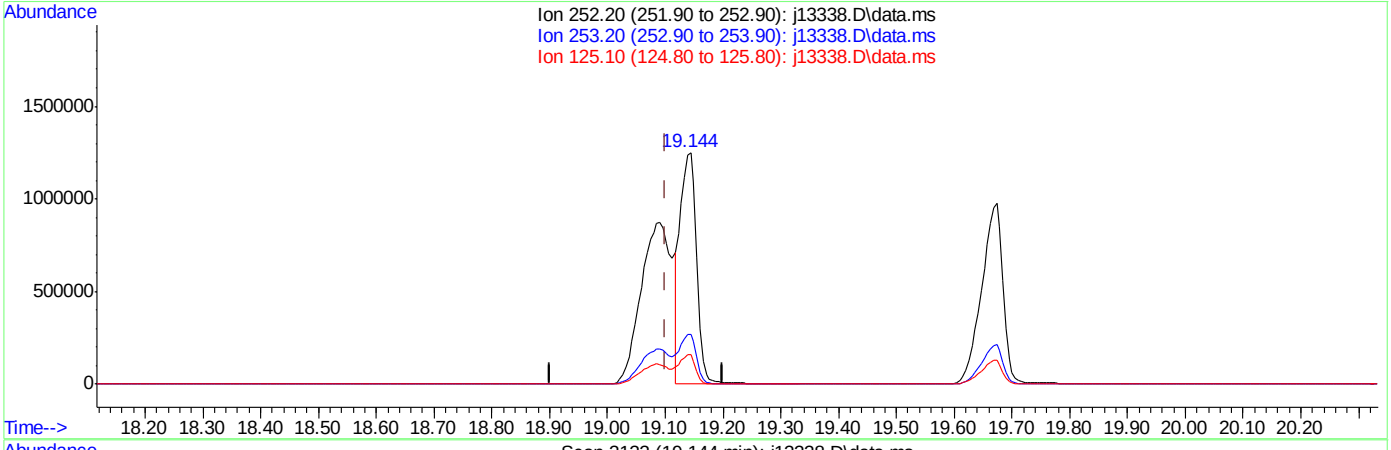
Ion	Exp%	Act%
228.20	100	100
226.20	29.20	33.25
229.20	19.70	24.33
0.00	0.00	0.00

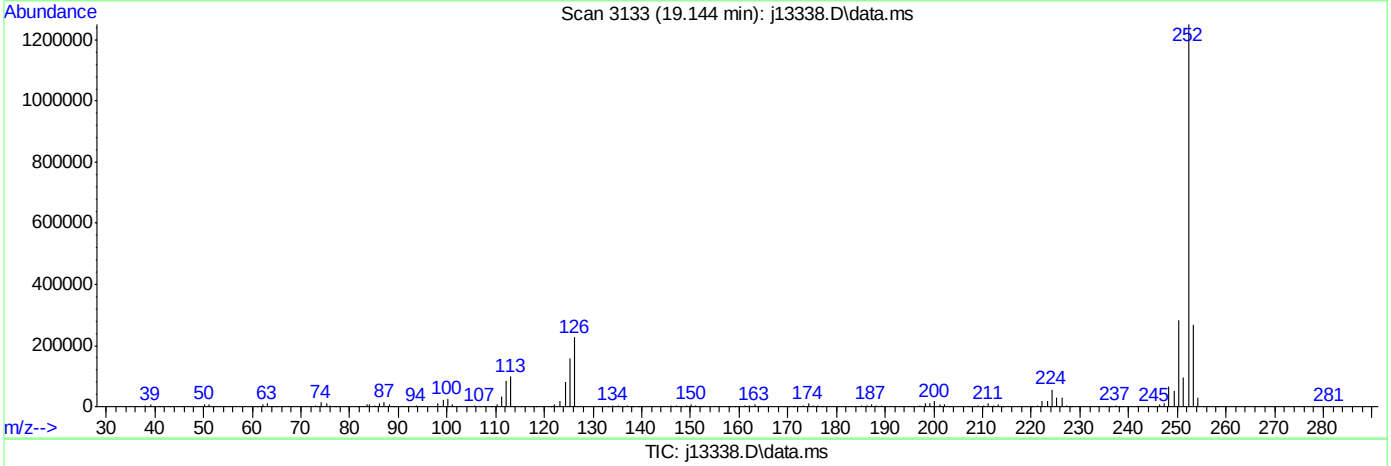
ACCUTEST Laboratories T39423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13338.D
Acq On : 23 Sep 2009 1:22 pm
Operator : sheilac
Sample : ic615-100
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 14:31:42 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration





TIC: j13338.D\data.ms

(83) Benzo(k)fluoranthene

19.144min (+0.043) 94.28ug/ml m

response 2510236

Ion	Exp%	Act%
252.20	100	100
253.20	22.10	26.74
125.10	11.90	14.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.890	152	585383	40.00	ug/ml	0.00
20) Naphthalene-d8	6.136	136	2197556	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.650	164	1270566	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.453	188	1807408	40.00	ug/ml	0.00
71) Chrysene-d12	16.983	240	1521064	40.00	ug/ml	0.00
80) Perylene-d12	19.765	264	740179	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.879	112	4409261	225.92	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 110		Recovery	=	225.92%#	
5) Phenol-d5 (SURR)	4.676	99	5212509	213.46	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 114		Recovery	=	213.46%#	
21) Nitrobenzene-d5 (SURR)	5.419	82	2797192	115.24	ug/ml	0.00
Spiked Amount 50.000	Range 36 - 126		Recovery	=	230.48%#	
40) 2-Fluorobiphenyl (SURR)	7.570	172	6418422	124.45	ug/ml	0.01
Spiked Amount 50.000	Range 34 - 132		Recovery	=	248.90%#	
62) 2,4,6-Tribromophenol (...	10.142	330	1883746	308.35	ug/ml	0.01
Spiked Amount 100.000	Range 33 - 138		Recovery	=	308.35%#	
74) Terphenyl-d14	14.817	244	4531611	121.28	ug/ml	0.01
Spiked Amount 50.000	Range 46 - 136		Recovery	=	242.56%#	
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.649	74	1149377	108.92	ug/ml	98
3) Pyridine	2.633	79	2081159m	111.98	ug/ml	
6) Phenol	4.692	94	2785905	105.44	ug/ml	95
7) Aniline	4.644	93	2984688	113.31	ug/ml	98
8) bis(2-Chloroethyl)ether	4.687	93	2850787	110.53	ug/ml	90
9) 2-Chlorophenol	4.756	128	2349467	115.79	ug/ml	98
10) 1,3-Dichlorobenzene	4.842	146	2641174	114.84	ug/ml	98
11) 1,4-Dichlorobenzene	4.906	146	2854845	116.40	ug/ml	99
12) Benzyl Alcohol	5.072	108	1711365	122.36	ug/ml	98
13) 1,2-Dichlorobenzene	5.045	146	2754757	120.10	ug/ml	99
14) 2-Methylphenol	5.168	108	2182154	119.66	ug/ml	99
15) bis(2-chloroisopropyl)...	5.141	45	3457638	104.33	ug/ml	93
16) 4-Methylphenol	5.323	108	2500507	131.99	ug/ml	98
17) m+p-Cresols	5.323	108	2500507	131.99	ug/ml	98
18) n-Nitroso-di-n-propyla...	5.302	70	2129240	121.88	ug/ml	98
19) Hexachloroethane	5.339	117	1056894	117.69	ug/ml	91
22) Nitrobenzene	5.436	77	2726209	114.01	ug/ml	96
23) Isophorone	5.730	82	5091953m	115.88	ug/ml	
24) 2-Nitrophenol	5.735	139	1503939	142.66	ug/ml	94
25) 2,4-Dimethylphenol	5.826	122	2180346	120.92	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.879	93	2817207	116.74	ug/ml	100
27) Benzoic Acid	6.077	105	1368372m	169.32	ug/ml	
28) 2,4-Dichlorophenol	6.029	162	2084896	134.68	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.072	180	2385102	126.43	ug/ml	99
30) Naphthalene	6.168	128	7552352	121.24	ug/ml	99
31) 4-Chloroaniline	6.238	127	2754946	134.62	ug/ml	98
32) Hexachlorobutadiene	6.302	225	1478219	124.02	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.880	107	2333812	133.26 ug/ml	99
34) 2-Methylnaphthalene	7.024	142	4720009	124.62 ug/ml	99
35) 1-Methylnaphthalene	7.168	142	4958699	125.03 ug/ml	100
37) Hexachlorocyclopentadiene	7.249	237	855974	218.89 ug/ml	99
38) 2,4,6-Trichlorophenol	7.463	196	1448963	131.85 ug/ml	99
39) 2,4,5-Trichlorophenol	7.548	196	1682622	142.02 ug/ml	99
41) 2-Chloronaphthalene	7.741	162	4554027	122.86 ug/ml	100
42) 2-Nitroaniline	7.944	65	1432831	113.61 ug/ml	96
43) Dimethylphthalate	8.286	163	5202999	115.01 ug/ml	100
44) Acenaphthylene	8.420	152	7463277	117.79 ug/ml	100
45) 2,6-Dinitrotoluene	8.372	165	1350009	129.35 ug/ml	97
46) 3-Nitroaniline	8.671	138	1154785	135.10 ug/ml	95
47) Acenaphthene	8.725	154	4465679	120.38 ug/ml	100
48) 2,4-Dinitrophenol	8.848	184	517414	245.02 ug/ml	94
49) 4-Nitrophenol	9.110	65	713297m	136.06 ug/ml	
50) Dibenzofuran	9.024	168	6506890	123.42 ug/ml	100
51) 2,4-Dinitrotoluene	9.078	165	1510372	119.21 ug/ml	86
52) 2,3,4,6-Tetrachlorophenol	9.292	232	1242751	140.55 ug/ml	98
53) Diethylphthalate	9.554	149	5565600	119.14 ug/ml	99
54) Fluorene	9.656	166	5785714	126.38 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.672	204	3055555	137.13 ug/ml	94
56) 4-Nitroaniline	9.854	138	961115m	135.71 ug/ml	
58) 1,2-Diphenylhydrazine	9.982	77	6034221	126.54 ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.880	198	796818	125.68 ug/ml	91
60) Diphenylamine	9.944	169	4513504	129.22 ug/ml	98
61) n-Nitrosodiphenylamine	9.944	169	4513504	129.22 ug/ml	98
63) 4-Bromophenyl-phenylether	10.597	248	1522169	128.94 ug/ml	98
64) Hexachlorobenzene	10.736	284	1625789	125.21 ug/ml	98
65) Pentachlorophenol	11.153	266	684175	164.90 ug/ml	98
66) Phenanthrene	11.517	178	6987134	124.07 ug/ml	100
67) Anthracene	11.624	178	6779599	125.13 ug/ml	100
68) Carbazole	11.988	167	5455544	125.41 ug/ml	100
69) Di-n-butylphthalate	12.790	149	8294083	121.14 ug/ml	100
70) Fluoranthene	13.961	202	6273920	121.23 ug/ml	100
72) Benzidine	14.298	184	2026372	194.50 ug/ml	100
73) Pyrene	14.421	202	6309398	113.59 ug/ml	100
75) Butylbenzylphthalate	15.903	149	2821959	111.45 ug/ml	97
76) Benzo(a)anthracene	16.962	228	5268693	117.06 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.967	252	1652656	159.03 ug/ml	98
78) Chrysene	17.053	228	4151967	107.94 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.165	149	3874897	112.99 ug/ml	99
81) Di-n-octylphthalate	18.459	149	5269490	143.78 ug/ml	100
82) Benzo(b)fluoranthene	19.096	252	3373105	134.83 ug/ml	100
83) Benzo(k)fluoranthene	19.149	252	2801070	117.68 ug/ml	99
84) Benzo(a)pyrene	19.679	252	2781130	127.59 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.952	276	1893473	99.26 ug/ml	99
86) Dibenz(a,h)anthracene	21.990	278	1647338	105.11 ug/ml	100
87) Benzo(g,h,i)perylene	22.573	276	1258406	85.18 ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.19

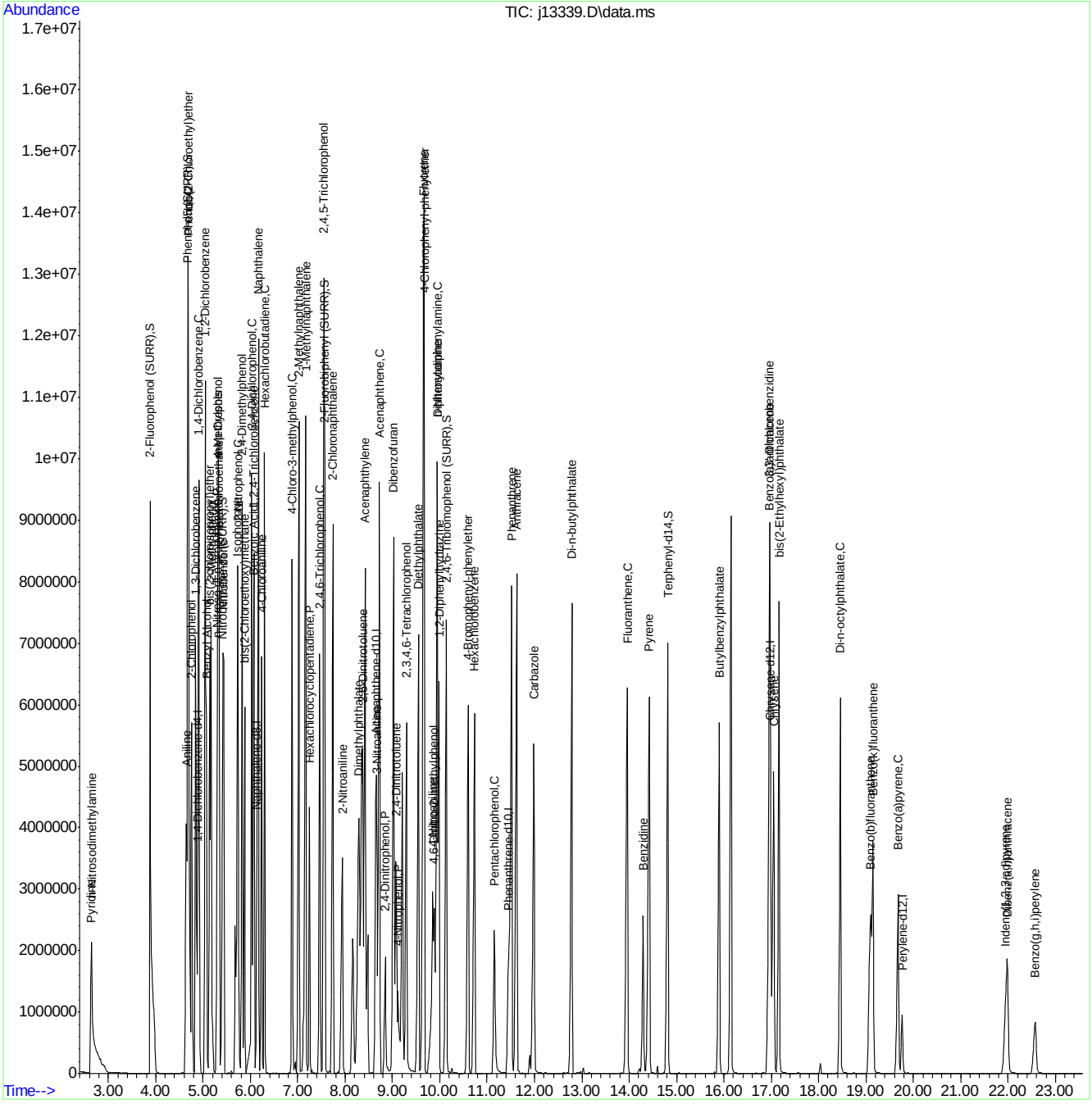
8

ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration

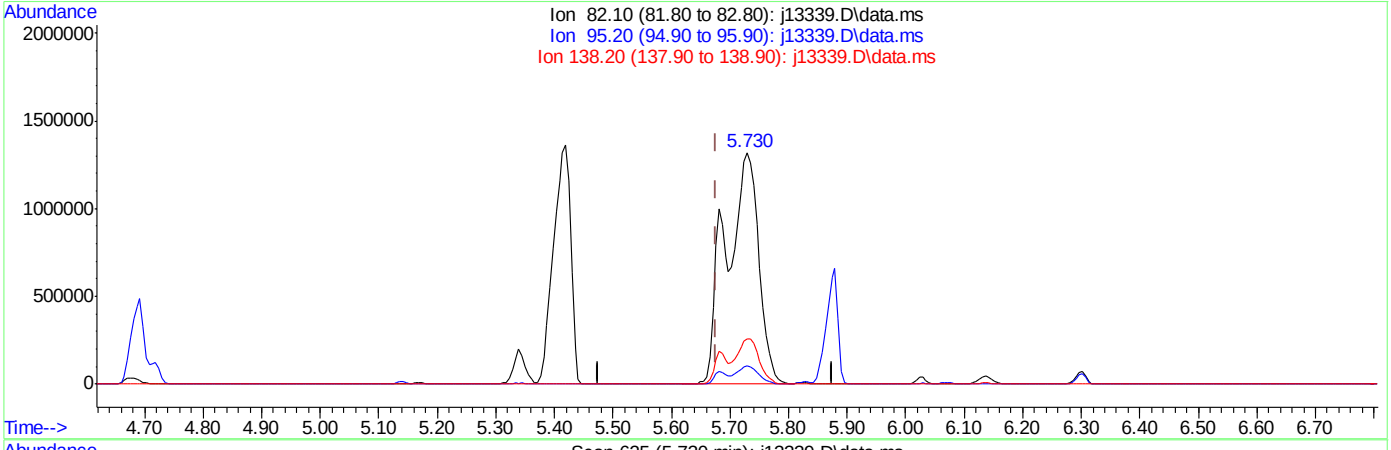


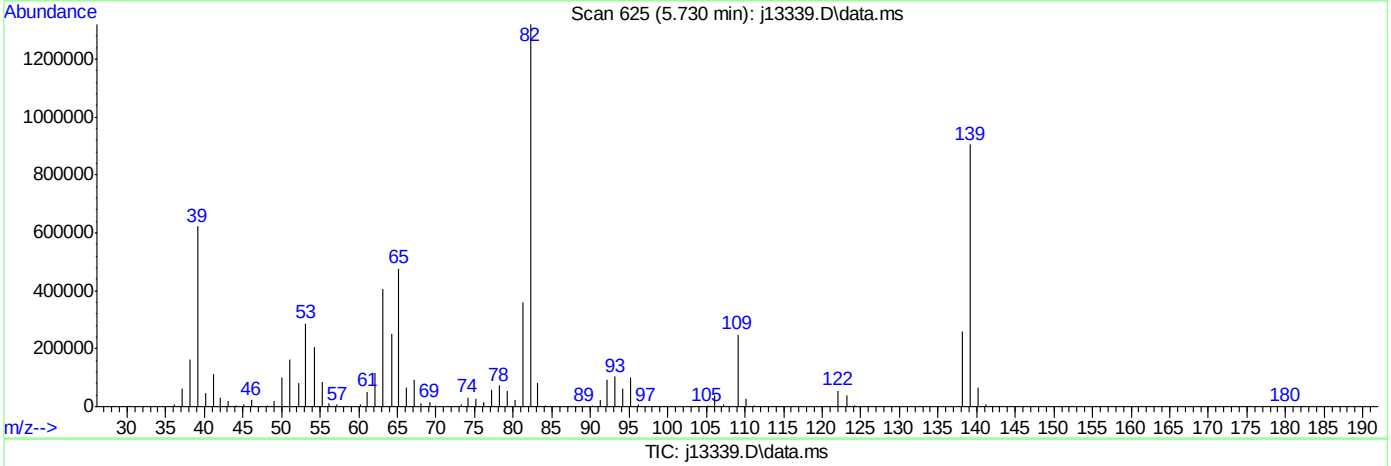
ACCUTEST Laboratories T39423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration





(23) Isophorone

5.730min (+0.054) 115.88ug/ml m

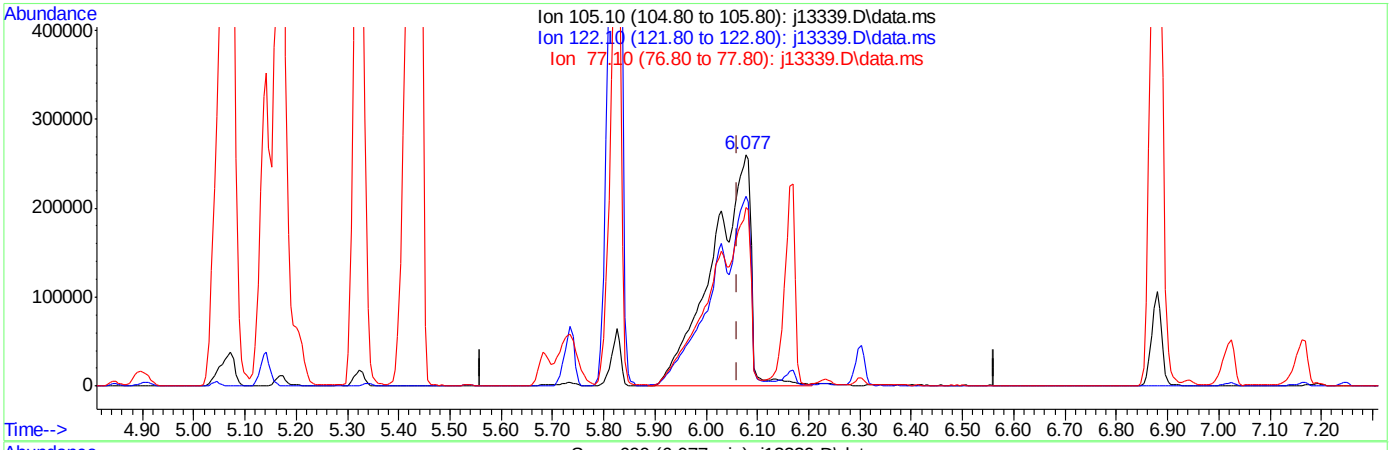
response 5091953

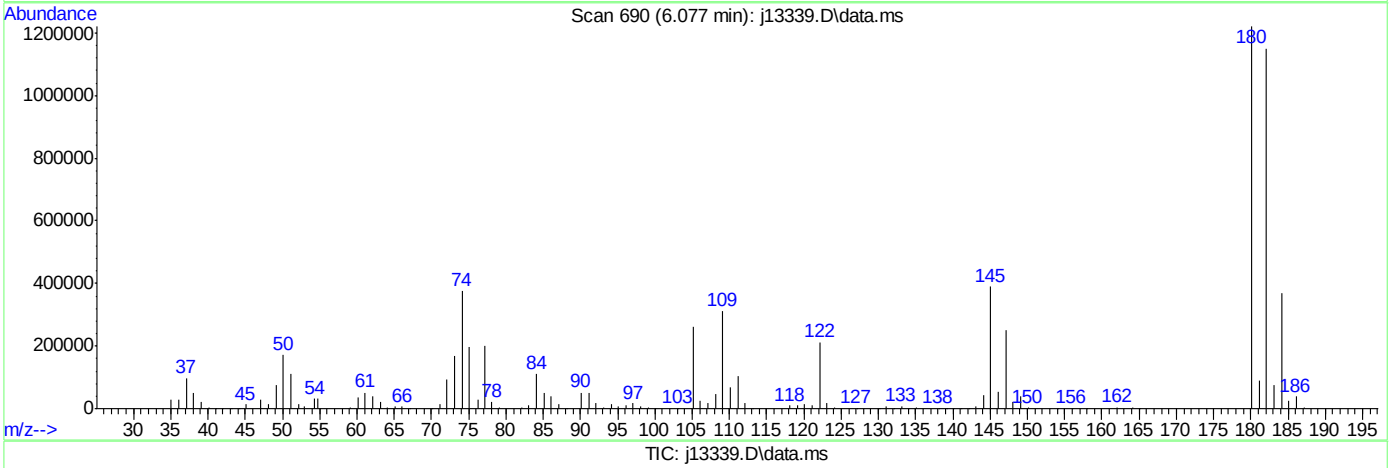
Ion	Exp%	Act%
82.10	100	100
95.20	7.30	2.51
138.20	18.50	5.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration





TIC: j13339.D\data.ms

(27) Benzoic Acid

6.077min (+0.016) 169.32ug/ml m

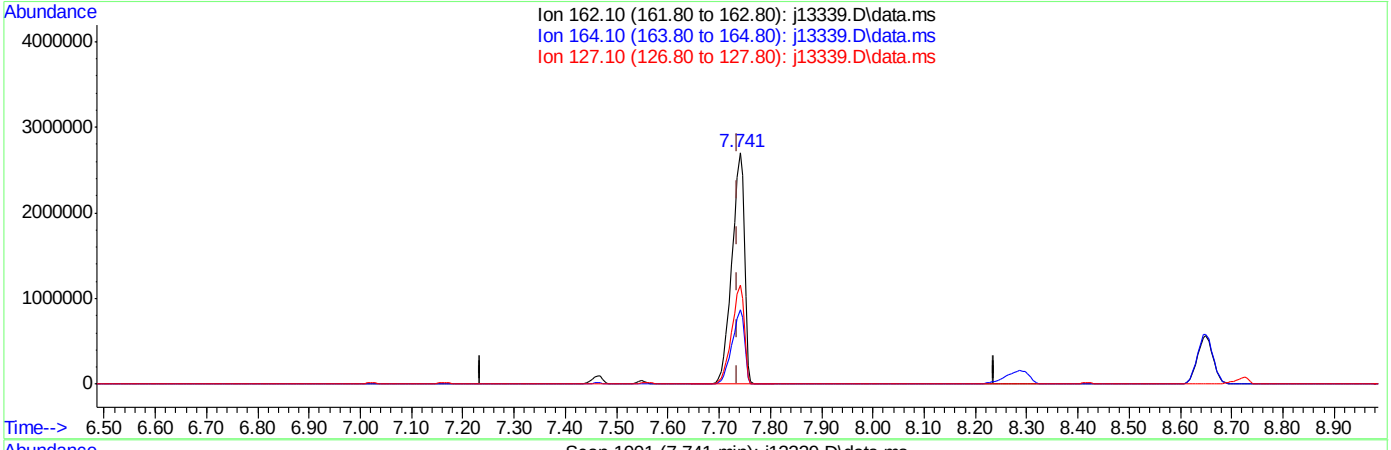
response 1368372

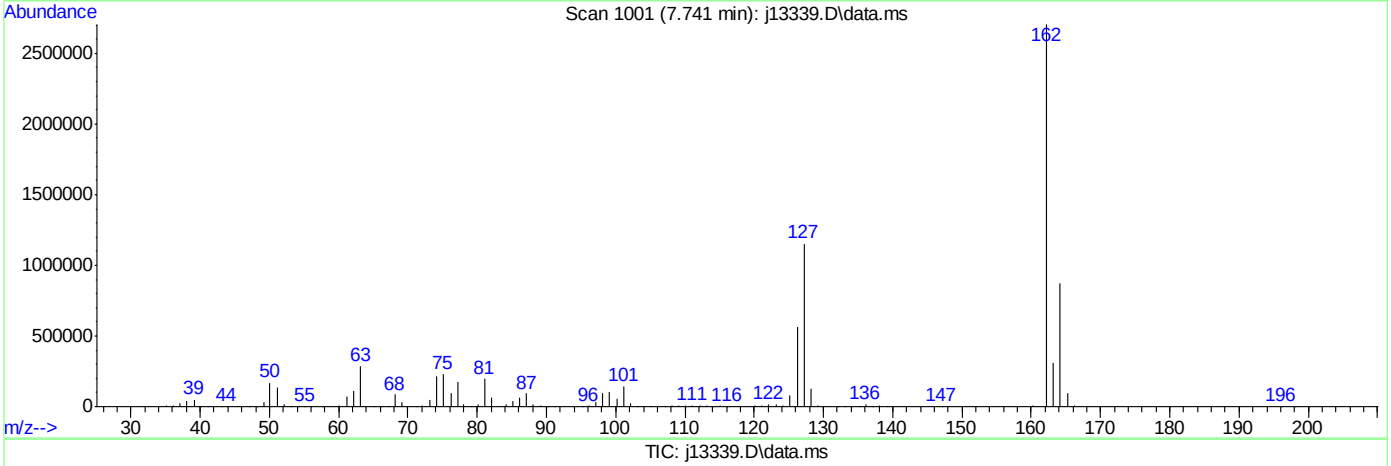
Ion	Exp%	Act%
105.10	100	100
122.10	75.20	34.58#
77.10	81.90	29.28#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On    : 23 Sep 2009   1:52 pm
Operator  : sheilac
Sample    : ic615-125
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration
```





TIC: j13339.D\data.ms

(41) 2-Chloronaphthalene

7.741min (+0.005) 122.86ug/ml

response 4554027

Ion	Exp%	Act%
162.10	100	100
164.10	32.20	32.17
127.10	42.60	42.70
0.00	0.00	0.00

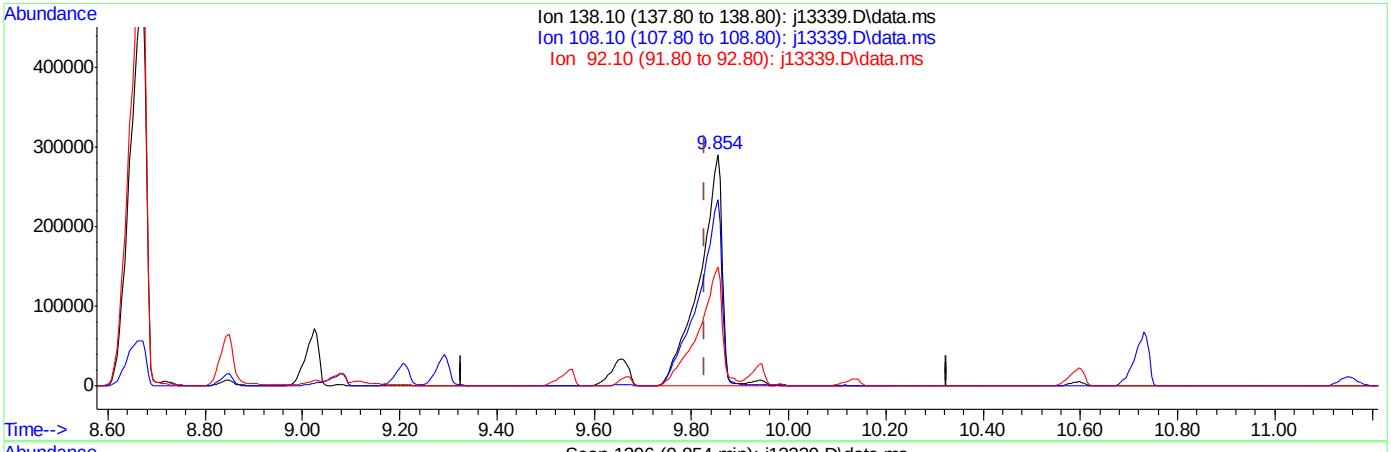
8.6.19.3

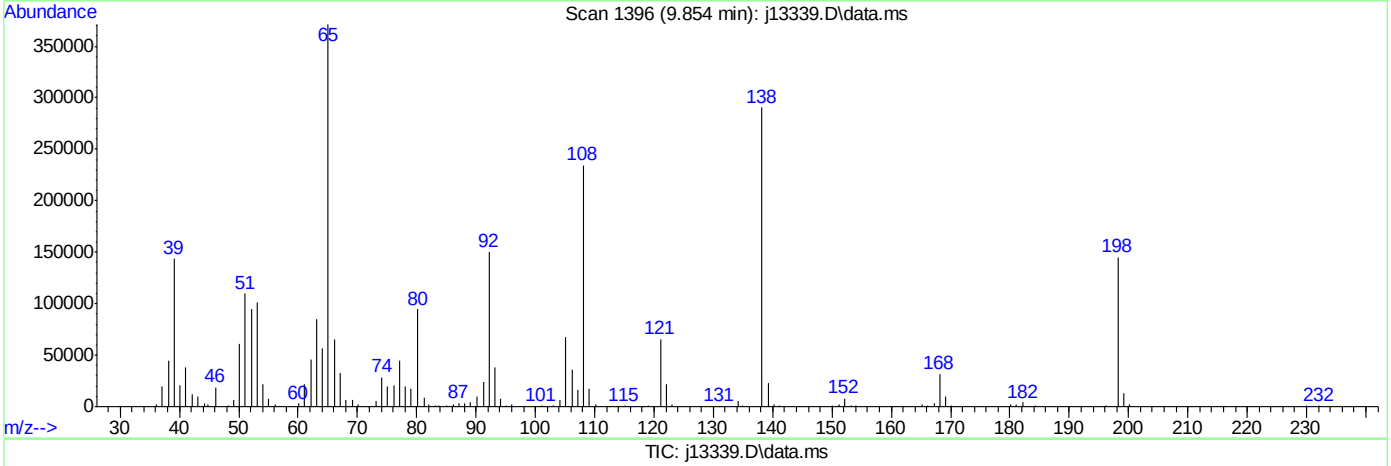
8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13339.D
Acq On : 23 Sep 2009 1:52 pm
Operator : sheilac
Sample : ic615-125
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 23 14:39:44 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 13:54:24 2009
Response via : Initial Calibration





TIC: j13339.D\data.ms

(56) 4-Nitroaniline

9.854min (+0.027) 135.71ug/ml m

response 961115

Ion	Exp%	Act%
138.10	100	100
108.10	87.60	80.63
92.10	53.80	51.79
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13340.D
Acq On : 23 Sep 2009 2:21 pm
Operator : sheilac
Sample : icc615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 23 14:43:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:43:40 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.885	152	461236	40.00	ug/ml	0.00
20) Naphthalene-d8	6.126	136	1686287	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.629	164	946091	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.431	188	1359018	40.00	ug/ml	0.00
71) Chrysene-d12	16.951	240	856385	40.00	ug/ml	0.00
80) Perylene-d12	19.743	264	501153	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.884	112	1558957	105.73	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 110		Recovery = 105.73%			
5) Phenol-d5 (SURR)	4.660	99	2023930	109.92	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 114		Recovery = 109.92%			
21) Nitrobenzene-d5 (SURR)	5.393	82	940895	52.38	ug/ml	0.00
Spiked Amount 50.000	Range 36 - 126		Recovery = 104.76%			
40) 2-Fluorobiphenyl (SURR)	7.543	172	1971856	52.66	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 132		Recovery = 105.32%			
62) 2,4,6-Tribromophenol (...	10.094	330	481903	92.30	ug/ml	0.00
Spiked Amount 100.000	Range 33 - 138		Recovery = 92.30%			
74) Terphenyl-d14	14.785	244	1196072	57.46	ug/ml	0.00
Spiked Amount 50.000	Range 46 - 136		Recovery = 114.92%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.644	74	404135	51.41	ug/ml	100
3) Pyridine	2.628	79	756386m	54.44	ug/ml	
6) Phenol	4.671	94	1097489	55.12	ug/ml	97
7) Aniline	4.633	93	1112956	54.92	ug/ml	100
8) bis(2-Chloroethyl)ether	4.676	93	1008150	52.01	ug/ml	99
9) 2-Chlorophenol	4.746	128	808970	52.33	ug/ml	99
10) 1,3-Dichlorobenzene	4.837	146	919693	52.53	ug/ml	98
11) 1,4-Dichlorobenzene	4.901	146	978333	52.23	ug/ml	100
12) Benzyl Alcohol	5.040	108	576781	53.62	ug/ml	99
13) 1,2-Dichlorobenzene	5.034	146	934973	53.13	ug/ml	100
14) 2-Methylphenol	5.157	108	715697	51.33	ug/ml	99
15) bis(2-chloroisopropyl)...	5.131	45	1247327	50.49	ug/ml	98
16) 4-Methylphenol	5.302	108	749225	50.82	ug/ml	100
17) m+p-Cresols	5.302	108	749225	50.82	ug/ml	100
18) n-Nitroso-di-n-propyla...	5.270	70	681414	50.93	ug/ml	99
19) Hexachloroethane	5.334	117	361101	52.66	ug/ml	99
22) Nitrobenzene	5.414	77	918307	52.06	ug/ml	99
23) Isophorone	5.650	82	1657403	51.10	ug/ml	100
24) 2-Nitrophenol	5.719	139	420875	51.96	ug/ml	99
25) 2,4-Dimethylphenol	5.794	122	737762	54.96	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.853	93	920486	51.60	ug/ml	100
27) Benzoic Acid	5.997	105	408391	52.32	ug/ml	98
28) 2,4-Dichlorophenol	6.008	162	618763	52.49	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.061	180	747748	52.69	ug/ml	100
30) Naphthalene	6.147	128	2459992	52.83	ug/ml	100
31) 4-Chloroaniline	6.216	127	862670	51.04	ug/ml	99
32) Hexachlorobutadiene	6.291	225	464561	52.06	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13340.D
Acq On : 23 Sep 2009 2:21 pm
Operator : sheilac
Sample : icc615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 23 14:43:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:43:40 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.864	107	700084	52.60 ug/ml	100
34) 2-Methylnaphthalene	7.008	142	1516238	53.19 ug/ml	100
35) 1-Methylnaphthalene	7.147	142	1586652	53.15 ug/ml	100
37) Hexachlorocyclopentadiene	7.238	237	246812	55.51 ug/ml	100
38) 2,4,6-Trichlorophenol	7.441	196	419453	52.25 ug/ml	100
39) 2,4,5-Trichlorophenol	7.532	196	457253	47.46 ug/ml	99
41) 2-Chloronaphthalene	7.719	162	1398043	52.04 ug/ml	100
42) 2-Nitroaniline	7.907	65	471184	52.08 ug/ml	99
43) Dimethylphthalate	8.233	163	1661437	51.33 ug/ml	100
44) Acenaphthylene	8.388	152	2382872	52.31 ug/ml	100
45) 2,6-Dinitrotoluene	8.313	165	387919	51.01 ug/ml	100
46) 3-Nitroaniline	8.613	138	348781	47.20 ug/ml	99
47) Acenaphthene	8.693	154	1391119	51.94 ug/ml	100
48) 2,4-Dinitrophenol	8.795	184	123145	51.92 ug/ml	95
49) 4-Nitrophenol	9.099	65	207433	44.32 ug/ml	98
50) Dibenzofuran	8.992	168	1998425	52.22 ug/ml	100
51) 2,4-Dinitrotoluene	9.019	165	481536	52.78 ug/ml#	74
52) 2,3,4,6-Tetrachlorophenol	9.265	232	355433	47.43 ug/ml	99
53) Diethylphthalate	9.490	149	1734419	51.59 ug/ml	100
54) Fluorene	9.618	166	1745709	52.30 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.634	204	842525	46.98 ug/ml	100
56) 4-Nitroaniline	9.741	138	284633	44.93 ug/ml	99
58) 1,2-Diphenylhydrazine	9.939	77	1776163	50.52 ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.795	198	217020	48.93 ug/ml	96
60) Diphenylamine	9.886	169	1339354	51.73 ug/ml	100
61) n-Nitrosodiphenylamine	9.886	169	1339354	51.73 ug/ml	100
63) 4-Bromophenyl-phenylether	10.570	248	450275	51.57 ug/ml	100
64) Hexachlorobenzene	10.699	284	479983	50.41 ug/ml	99
65) Pentachlorophenol	11.132	266	161111	46.03 ug/ml	99
66) Phenanthrene	11.480	178	2105928	51.05 ug/ml	100
67) Anthracene	11.581	178	2022587	50.99 ug/ml	99
68) Carbazole	11.950	167	1621277	50.79 ug/ml	100
69) Di-n-butylphthalate	12.763	149	2444478	49.56 ug/ml	100
70) Fluoranthene	13.924	202	1814289	48.70 ug/ml	100
72) Benzidine	14.266	184	416528	52.20 ug/ml#	99
73) Pyrene	14.384	202	1804608	58.56 ug/ml	100
75) Butylbenzylphthalate	15.876	149	731555	53.60 ug/ml	100
76) Benzo(a)anthracene	16.924	228	1242635	50.67 ug/ml	100
77) 3,3'-Dichlorobenzidine	16.930	252	238525	46.22 ug/ml	98
78) Chrysene	17.005	228	1065718	51.53 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.144	149	888769	48.71 ug/ml	100
81) Di-n-octylphthalate	18.427	149	1216864	45.71 ug/ml	100
82) Benzo(b)fluoranthene	19.053	252	850243	50.62 ug/ml	100
83) Benzo(k)fluoranthene	19.107	252	817969	52.68 ug/ml	99
84) Benzo(a)pyrene	19.642	252	734678	50.97 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.925	276	659599	51.20 ug/ml	100
86) Dibenz(a,h)anthracene	21.952	278	543474	51.01 ug/ml	99
87) Benzo(g,h,i)perylene	22.541	276	509745	51.92 ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13340.D
Acq On : 23 Sep 2009 2:21 pm
Operator : sheilac
Sample : icc615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 23 14:43:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:43:40 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

8.6.20

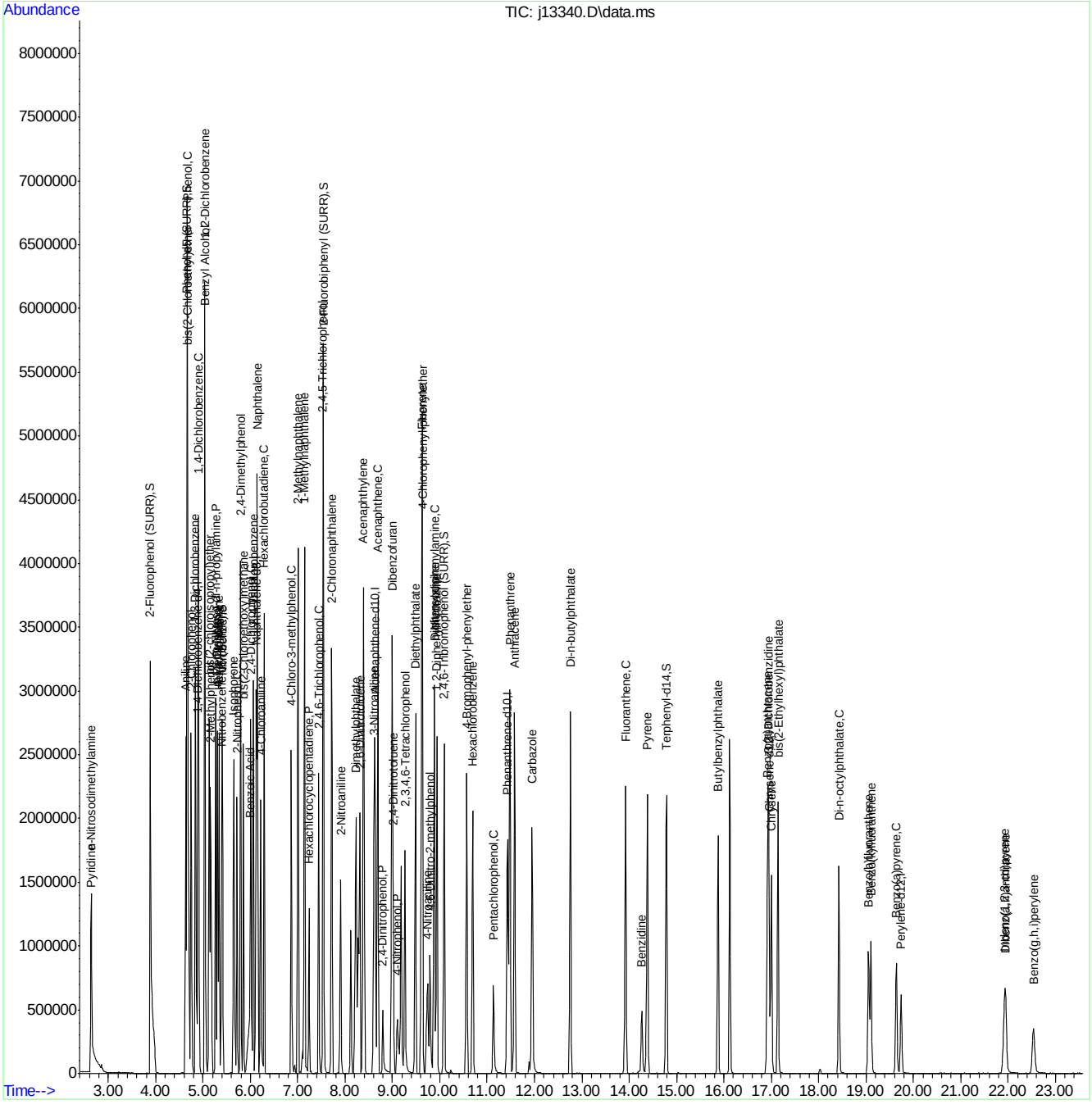
8

ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13340.D
Acq On : 23 Sep 2009 2:21 pm
Operator : sheilac
Sample : icc615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 23 14:43:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:43:40 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13340.D
Acq On    : 23 Sep 2009   2:21 pm
Operator  : sheilac
Sample    : icc615-50
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Sep 23 14:43:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 14:43:40 2009
Response via : Initial Calibration
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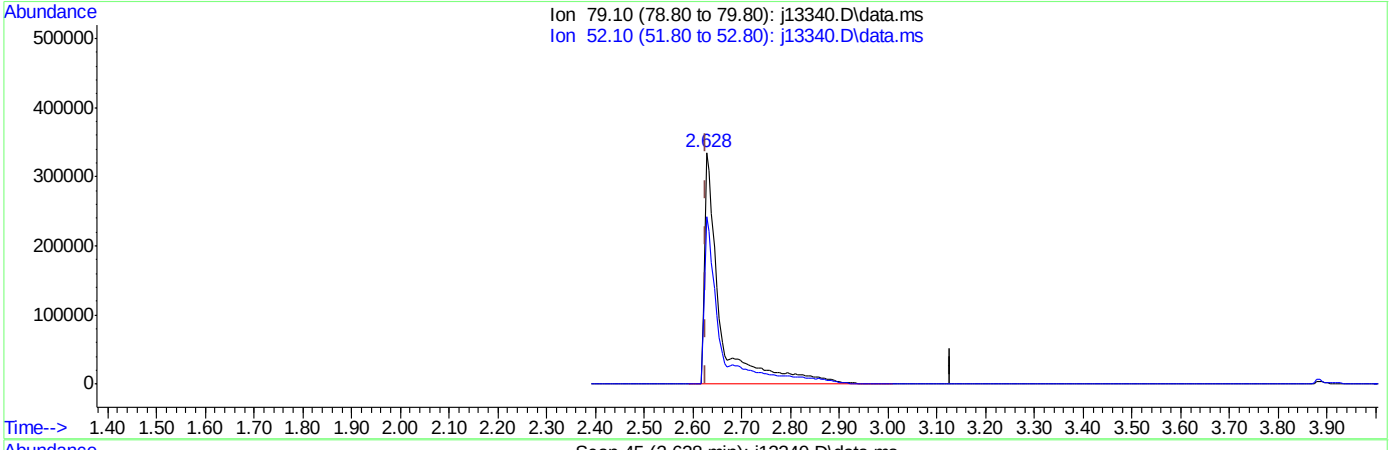
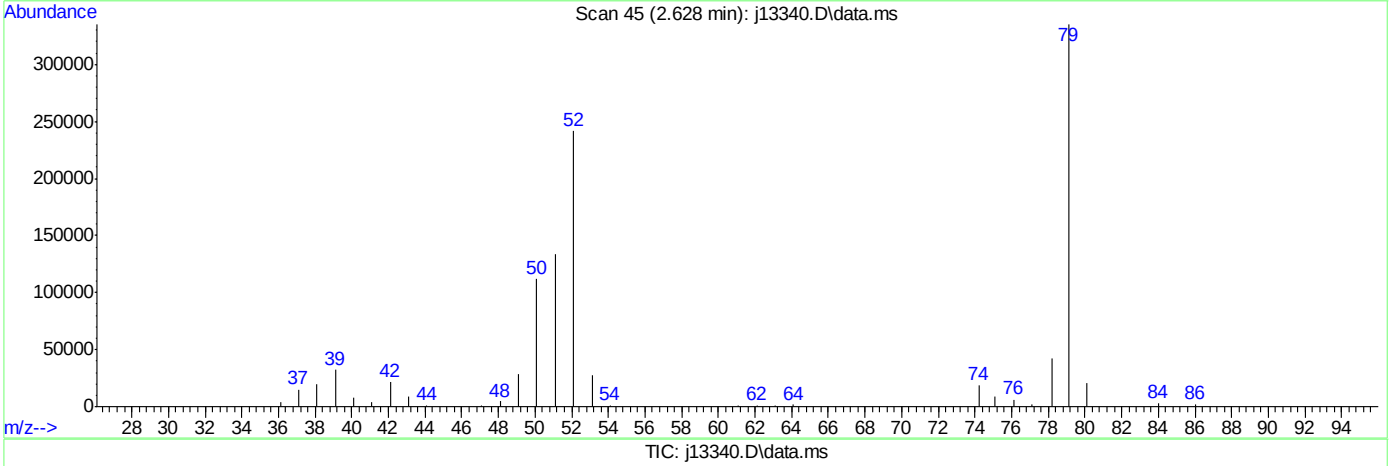




TIC: j13340.D\data.ms

(3) Pyridine

2.628min (0.000) 54.44ug/ml m

response 756386

Ion	Exp%	Act%
79.10	100	100
52.10	48.30	49.17
0.00	0.00	0.00
0.00	0.00	0.00

J13341.D

Manual Integrations APPROVED (compounds with "m" flag)

Richard Rodriguez 09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13341.D
Acq On : 23 Sep 2009 2:51 pm
Operator : sheilac
Sample : ic615-75
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 23 15:13:41 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:44:31 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.885	152	374315	40.00	ug/ml	0.00
20) Naphthalene-d8	6.126	136	1353306	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.629	164	751195	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.431	188	1132175	40.00	ug/ml	0.00
71) Chrysene-d12	16.962	240	991058	40.00	ug/ml	0.01
80) Perylene-d12	19.754	264	638555	40.00	ug/ml	0.01
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.879	112	1894428	158.32	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 110		Recovery = 158.32%#			
5) Phenol-d5 (SURR)	4.660	99	2441450	163.39	ug/ml	0.00
Spiked Amount 100.000	Range 23 - 114		Recovery = 163.39%#			
21) Nitrobenzene-d5 (SURR)	5.398	82	1134846	78.73	ug/ml	0.00
Spiked Amount 50.000	Range 36 - 126		Recovery = 157.46%#			
40) 2-Fluorobiphenyl (SURR)	7.543	172	2390811	80.41	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 132		Recovery = 160.82%#			
62) 2,4,6-Tribromophenol (...	10.100	330	616122	136.25	ug/ml	0.00
Spiked Amount 100.000	Range 33 - 138		Recovery = 136.25%			
74) Terphenyl-d14	14.796	244	1816247	75.39	ug/ml	0.01
Spiked Amount 50.000	Range 46 - 136		Recovery = 150.78%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.638	74	500333	78.42	ug/ml	99
3) Pyridine	2.617	79	928595m	82.36	ug/ml	
6) Phenol	4.671	94	1328119	82.20	ug/ml	99
7) Aniline	4.633	93	1292394	78.58	ug/ml	100
8) bis(2-Chloroethyl)ether	4.676	93	1282033	81.49	ug/ml	97
9) 2-Chlorophenol	4.746	128	973793	77.63	ug/ml	99
10) 1,3-Dichlorobenzene	4.837	146	1106973	77.91	ug/ml	99
11) 1,4-Dichlorobenzene	4.901	146	1170470	76.99	ug/ml	100
12) Benzyl Alcohol	5.040	108	701259	80.33	ug/ml	98
13) 1,2-Dichlorobenzene	5.034	146	1130967	79.20	ug/ml	100
14) 2-Methylphenol	5.157	108	867781	76.69	ug/ml	99
15) bis(2-chloroisopropyl)...	5.131	45	1519576	75.80	ug/ml	98
16) 4-Methylphenol	5.302	108	906062	75.72	ug/ml	100
17) m+p-Cresols	5.302	108	906062	75.72	ug/ml	100
18) n-Nitroso-di-n-propyla...	5.270	70	831565	76.58	ug/ml	100
19) Hexachloroethane	5.334	117	433972	77.98	ug/ml	98
22) Nitrobenzene	5.414	77	1111680	78.52	ug/ml	99
23) Isophorone	5.649	82	2020520	77.62	ug/ml	100
24) 2-Nitrophenol	5.719	139	502227	77.26	ug/ml	99
25) 2,4-Dimethylphenol	5.799	122	893161	82.91	ug/ml	100
26) bis(2-Chloroethoxy)met...	5.858	93	1122751	78.42	ug/ml	100
27) Benzoic Acid	6.003	105	448099	69.71	ug/ml	99
28) 2,4-Dichlorophenol	6.008	162	748994	79.16	ug/ml	99
29) 1,2,4-Trichlorobenzene	6.061	180	896398	78.70	ug/ml	100
30) Naphthalene	6.147	128	2971305	79.51	ug/ml	100
31) 4-Chloroaniline	6.216	127	1033722	75.23	ug/ml	98
32) Hexachlorobutadiene	6.291	225	562628	78.56	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13341.D
Acq On : 23 Sep 2009 2:51 pm
Operator : sheilac
Sample : ic615-75
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 23 15:13:41 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:44:31 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.864	107	861966	80.69 ug/ml	99
34) 2-Methylnaphthalene	7.008	142	1817192	79.44 ug/ml	100
35) 1-Methylnaphthalene	7.147	142	1898349	79.25 ug/ml	100
37) Hexachlorocyclopentadiene	7.238	237	273951	73.97 ug/ml	100
38) 2,4,6-Trichlorophenol	7.441	196	514099	80.68 ug/ml	100
39) 2,4,5-Trichlorophenol	7.532	196	566275	72.18 ug/ml	100
41) 2-Chloronaphthalene	7.719	162	1685874	79.04 ug/ml	100
42) 2-Nitroaniline	7.912	65	574646	80.00 ug/ml	99
43) Dimethylphthalate	8.238	163	2035622	79.21 ug/ml	100
44) Acenaphthylene	8.393	152	2901360	80.21 ug/ml	100
45) 2,6-Dinitrotoluene	8.318	165	479040	79.33 ug/ml	99
46) 3-Nitroaniline	8.618	138	430186	73.62 ug/ml	99
47) Acenaphthene	8.693	154	1684474	79.21 ug/ml	100
48) 2,4-Dinitrophenol	8.800	184	167022	78.52 ug/ml	96
49) 4-Nitrophenol	9.094	65	256890	69.21 ug/ml	99
50) Dibenzofuran	8.998	168	2437534	80.21 ug/ml	100
51) 2,4-Dinitrotoluene	9.030	165	600888	82.94 ug/ml#	75
52) 2,3,4,6-Tetrachlorophenol	9.265	232	435375	72.44 ug/ml	99
53) Diethylphthalate	9.495	149	2144555	80.34 ug/ml	100
54) Fluorene	9.624	166	2171737	81.94 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.640	204	1054776	72.84 ug/ml	100
56) 4-Nitroaniline	9.757	138	362431	72.61 ug/ml	99
58) 1,2-Diphenylhydrazine	9.944	77	2183261	74.54 ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.805	198	289601	74.97 ug/ml	97
60) Diphenylamine	9.896	169	1649915	76.50 ug/ml	100
61) n-Nitrosodiphenylamine	9.896	169	1649915	76.50 ug/ml	100
63) 4-Bromophenyl-phenylether	10.576	248	562402	77.32 ug/ml	100
64) Hexachlorobenzene	10.704	284	608346	76.70 ug/ml	99
65) Pentachlorophenol	11.132	266	224979	70.39 ug/ml	98
66) Phenanthrene	11.485	178	2693672	78.38 ug/ml	100
67) Anthracene	11.586	178	2637794	79.80 ug/ml	100
68) Carbazole	11.956	167	2156773	81.10 ug/ml	100
69) Di-n-butylphthalate	12.763	149	3329636	81.03 ug/ml	100
70) Fluoranthene	13.935	202	2570056	82.81 ug/ml	100
72) Benzidine	14.272	184	925964	72.57 ug/ml	99
73) Pyrene	14.395	202	2590838	72.65 ug/ml	100
75) Butylbenzylphthalate	15.887	149	1230110	77.88 ug/ml	99
76) Benzo(a)anthracene	16.935	228	2156391	75.98 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.935	252	498192	72.42 ug/ml	99
78) Chrysene	17.021	228	1861570	77.76 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.149	149	1660941	78.66 ug/ml	100
81) Di-n-octylphthalate	18.438	149	2420981	69.16 ug/ml	100
82) Benzo(b)fluoranthene	19.069	252	1689315	78.94 ug/ml	99
83) Benzo(k)fluoranthene	19.123	252	1506373	76.27 ug/ml	99
84) Benzo(a)pyrene	19.658	252	1437318	78.27 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.936	276	1308972	84.18 ug/ml	100
86) Dibenz(a,h)anthracene	21.974	278	1091604	84.74 ug/ml	100
87) Benzo(g,h,i)perylene	22.557	276	974364	82.48 ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13341.D
Acq On : 23 Sep 2009 2:51 pm
Operator : sheilac
Sample : ic615-75
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 23 15:13:41 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:44:31 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

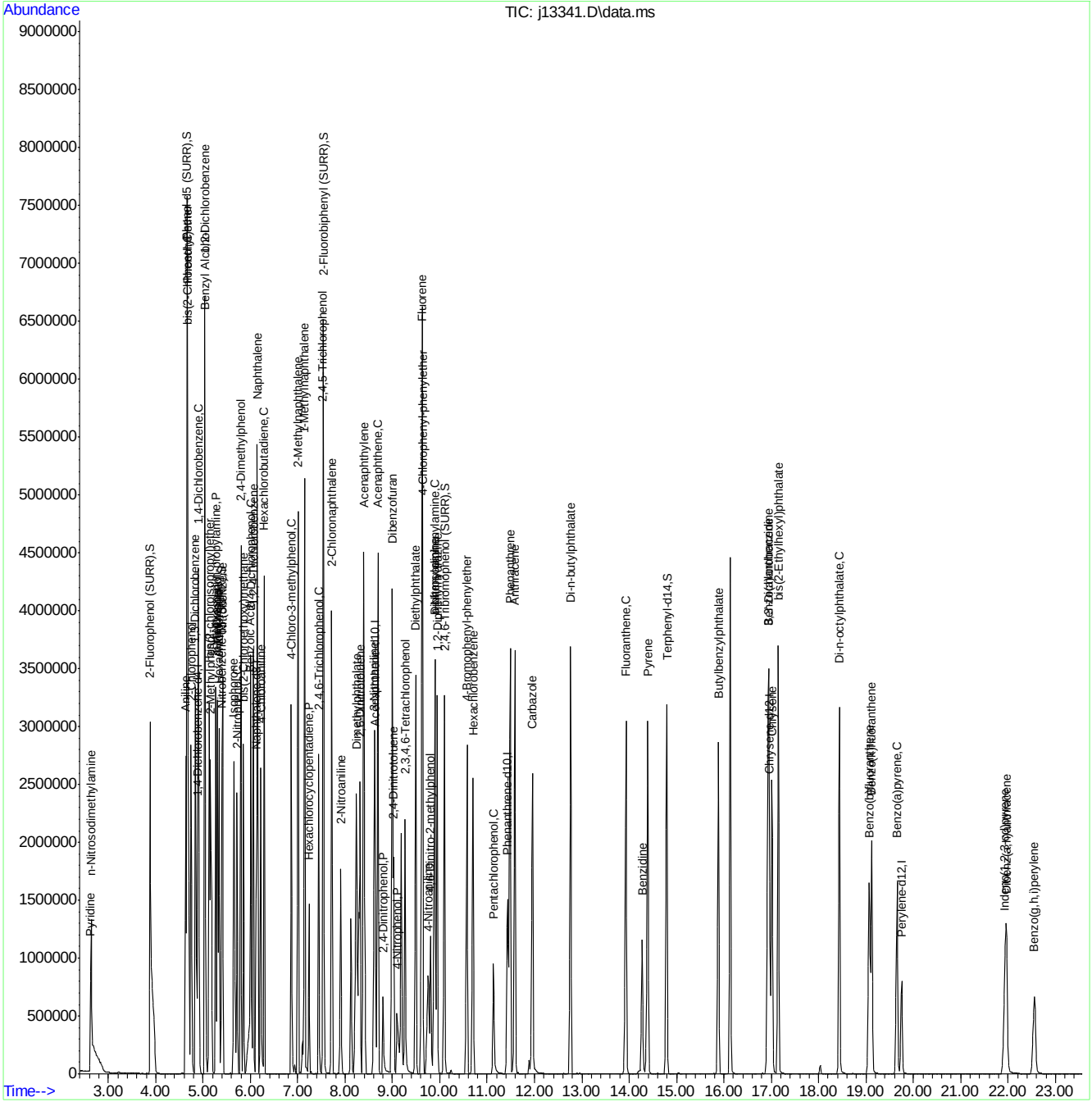
8.6.21

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13341.D
Acq On : 23 Sep 2009 2:51 pm
Operator : sheilac
Sample : ic615-75
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 23 15:13:41 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:44:31 2009
Response via : Initial Calibration

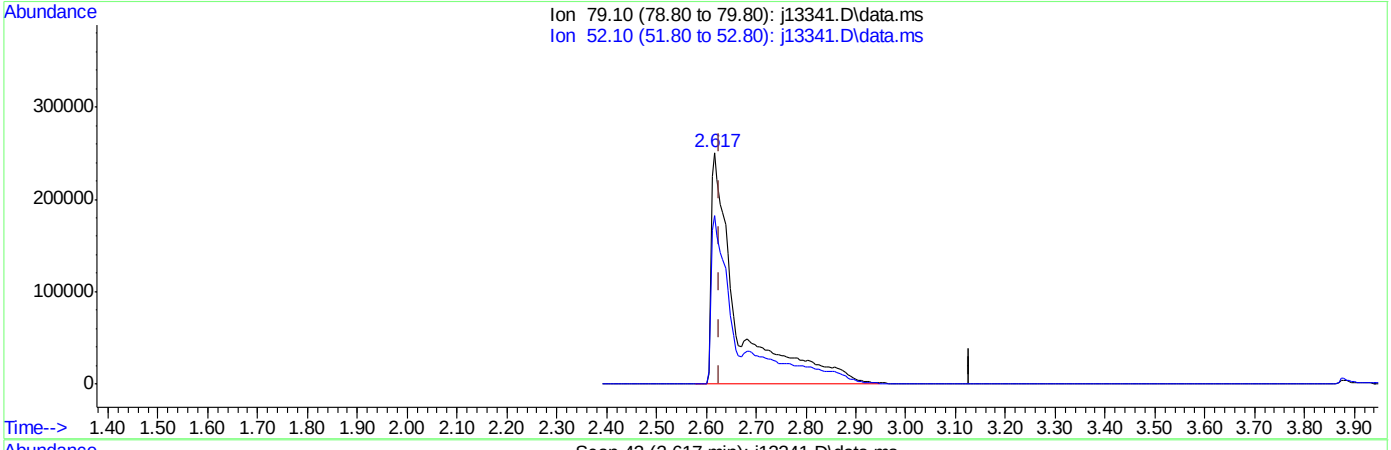


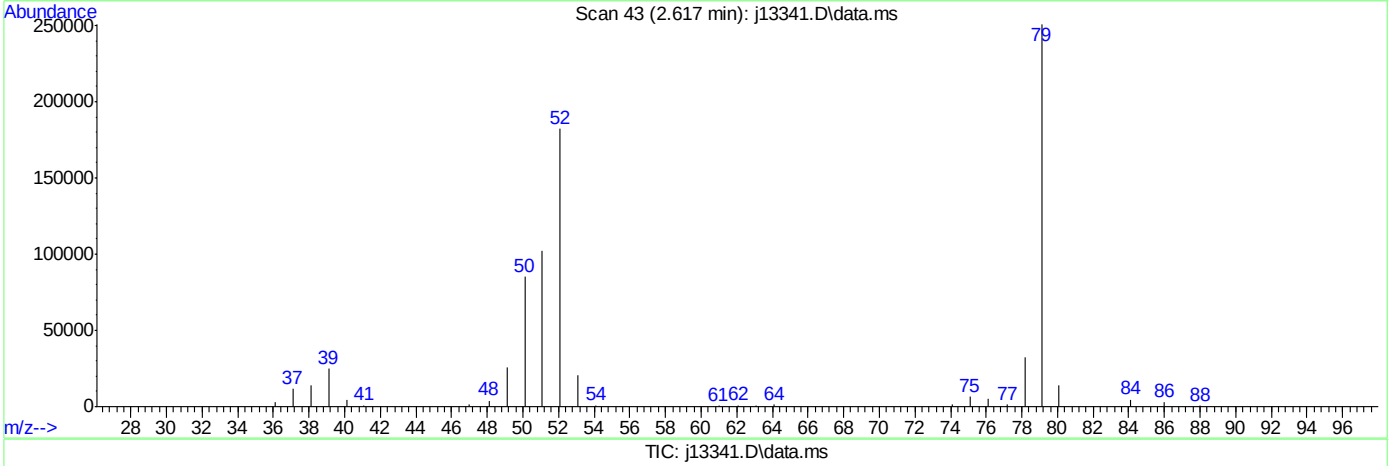
ACCUTEST Laboratories T39423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13341.D
Acq On : 23 Sep 2009 2:51 pm
Operator : sheilac
Sample : ic615-75
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 23 15:13:41 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:44:31 2009
Response via : Initial Calibration





TIC: j13341.D\data.ms

(3) Pyridine

2.617min (-0.011) 82.36ug/ml m

response 928595

Ion	Exp%	Act%
79.10	100	100
52.10	48.30	43.26
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
09/28/09 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On : 23 Sep 2009 3:21 pm
Operator : sheilac
Sample : icv615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 23 16:57:01 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.885	152	382496	40.00	ug/ml	0.00
20) Naphthalene-d8	6.120	136	1390359	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.623	164	717631	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.426	188	1012187	40.00	ug/ml	0.00
71) Chrysene-d12	16.951	240	904594	40.00	ug/ml	-0.01
80) Perylene-d12	19.748	264	633901	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	0.000	112	0	0.00	ug/ml	
Spiked Amount 100.000	Range 23 - 110		Recovery	=	0.00%#	
5) Phenol-d5 (SURR)	0.000	99	0d	0.00	ug/ml	
Spiked Amount 100.000	Range 23 - 114		Recovery	=	0.00%#	
21) Nitrobenzene-d5 (SURR)	0.000	82	0d	0.00	ug/ml	
Spiked Amount 50.000	Range 36 - 126		Recovery	=	0.00%#	
40) 2-Fluorobiphenyl (SURR)	0.000	172	0	0.00	ug/ml	
Spiked Amount 50.000	Range 34 - 132		Recovery	=	0.00%#	
62) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ug/ml	
Spiked Amount 100.000	Range 33 - 138		Recovery	=	0.00%#	
74) Terphenyl-d14	0.000	244	0	0.00	ug/ml	
Spiked Amount 50.000	Range 46 - 136		Recovery	=	0.00%#	
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.649	74	354790	55.19	ug/ml	97
3) Pyridine	2.638	79	583081m	51.40	ug/ml	
6) Phenol	4.687	94	781316	48.13	ug/ml	89
7) Aniline	4.628	93	548944	33.57	ug/ml	94
8) bis(2-Chloroethyl)ether	4.671	93	720071	45.25	ug/ml	97
9) 2-Chlorophenol	4.751	128	615933	48.91	ug/ml	99
10) 1,3-Dichlorobenzene	4.836	146	685065	48.02	ug/ml	98
11) 1,4-Dichlorobenzene	4.901	146	717693	46.89	ug/ml	100
12) Benzyl Alcohol	5.034	108	438413	49.97	ug/ml	100
13) 1,2-Dichlorobenzene	5.034	146	693178	48.28	ug/ml	100
14) 2-Methylphenol	5.168	108	557746	49.01	ug/ml	99
15) bis(2-chloroisopropyl)...	5.125	45	970715	48.16	ug/ml	100
16) 4-Methylphenol	5.302	108	1189796	98.82	ug/ml	100
17) m+p-Cresols	5.302	108	1189796	98.82	ug/ml	100
18) n-Nitroso-di-n-propyla...	5.259	70	509070	46.61	ug/ml	99
19) Hexachloroethane	5.334	117	270695	48.47	ug/ml	99
22) Nitrobenzene	5.403	77	669860	46.78	ug/ml	100
23) Isophorone	5.644	82	1243348	47.29	ug/ml	100
24) 2-Nitrophenol	5.719	139	308970	46.93	ug/ml	99
25) 2,4-Dimethylphenol	5.794	122	484882	44.53	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.847	93	686829	47.40	ug/ml	100
27) Benzoic Acid	5.976	105	270392	45.34	ug/ml	100
28) 2,4-Dichlorophenol	6.008	162	453402	47.34	ug/ml	100
29) 1,2,4-Trichlorobenzene	6.056	180	521921	45.29	ug/ml	100
30) Naphthalene	6.147	128	1823133	48.14	ug/ml	99
31) 4-Chloroaniline	6.216	127	300035	23.42	ug/ml	98
32) Hexachlorobutadiene	6.291	225	340718	47.09	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On : 23 Sep 2009 3:21 pm
Operator : sheilac
Sample : icv615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 23 16:57:01 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration

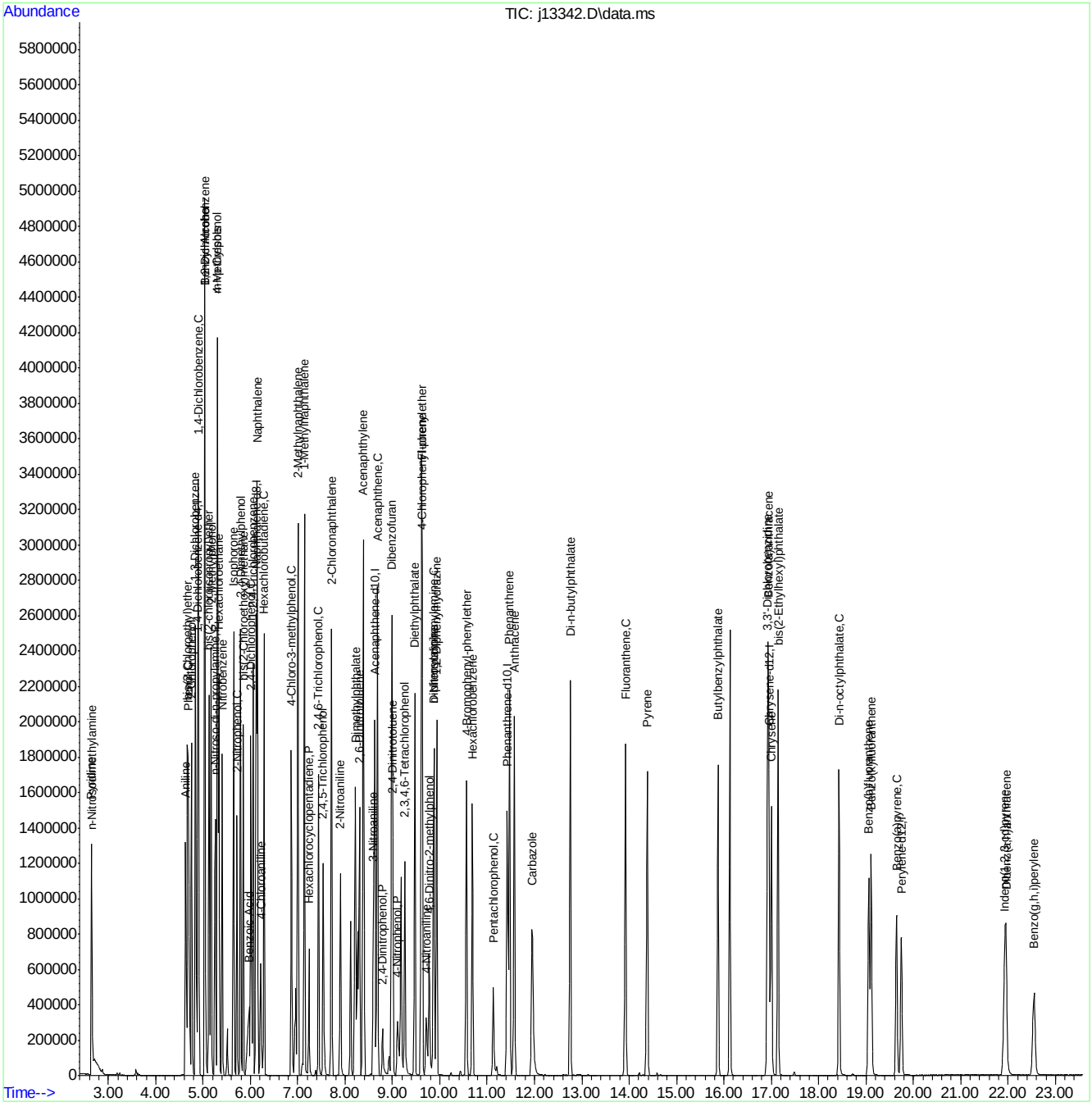
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.864	107	512044	47.34 ug/ml	100
34) 2-Methylnaphthalene	7.003	142	1151343	49.77 ug/ml	100
35) 1-Methylnaphthalene	7.142	142	1123966	46.39 ug/ml	100
37) Hexachlorocyclopentadiene	7.238	237	137587	43.14 ug/ml	99
38) 2,4,6-Trichlorophenol	7.436	196	306098	51.12 ug/ml	100
39) 2,4,5-Trichlorophenol	7.532	196	303549	42.86 ug/ml	100
41) 2-Chloronaphthalene	7.714	162	1005728	50.16 ug/ml	100
42) 2-Nitroaniline	7.901	65	346793	51.44 ug/ml	99
43) Dimethylphthalate	8.217	163	1211035	50.25 ug/ml	100
44) Acenaphthylene	8.383	152	1737763	51.13 ug/ml	100
45) 2,6-Dinitrotoluene	8.302	165	273967	48.32 ug/ml#	87
46) 3-Nitroaniline	8.597	138	207700	39.80 ug/ml	97
47) Acenaphthene	8.682	154	984362	49.30 ug/ml	100
48) 2,4-Dinitrophenol	8.789	184	68227	39.85 ug/ml	98
49) 4-Nitrophenol	9.099	65	147509	45.27 ug/ml	96
50) Dibenzofuran	8.987	168	1406473	49.31 ug/ml	100
51) 2,4-Dinitrotoluene	9.008	165	338461	49.84 ug/ml#	72
52) 2,3,4,6-Tetrachlorophenol	9.260	232	239567	45.11 ug/ml	98
53) Diethylphthalate	9.474	149	1232296	49.29 ug/ml	100
54) Fluorene	9.613	166	1193461	48.01 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.629	204	576854	45.07 ug/ml	99
56) 4-Nitroaniline	9.714	138	171163m	38.48 ug/ml	
58) 1,2-Diphenylhydrazine	9.934	77	1256859	48.83 ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.779	198	143151	44.29 ug/ml	99
60) Diphenylamine	9.875	169	770831	40.69 ug/ml	100
61) n-Nitrosodiphenylamine	9.875	169	770831	40.69 ug/ml	100
63) 4-Bromophenyl-phenylether	10.565	248	310064	48.53 ug/ml	100
64) Hexachlorobenzene	10.688	284	340718	48.94 ug/ml	100
65) Pentachlorophenol	11.126	266	112355	47.08 ug/ml	96
66) Phenanthrene	11.474	178	1464496	48.56 ug/ml	100
67) Anthracene	11.576	178	1419130	48.87 ug/ml	100
68) Carbazole	11.950	167	1027874	43.97 ug/ml	100
69) Di-n-butylphthalate	12.758	149	1828007	50.48 ug/ml	100
70) Fluoranthene	13.924	202	1460296	53.41 ug/ml	100
73) Pyrene	14.384	202	1423169	44.65 ug/ml	100
75) Butylbenzylphthalate	15.876	149	693258	48.84 ug/ml	100
76) Benzo(a)anthracene	16.930	228	1234326	48.50 ug/ml	100
77) 3,3'-Dichlorobenzidine	16.924	252	288549	53.00 ug/ml	98
78) Chrysene	17.005	228	1055240	49.19 ug/ml	100
79) bis(2-Ethylhexyl)phtha...	17.144	149	910289	47.72 ug/ml	100
81) Di-n-octylphthalate	18.427	149	1349111	41.48 ug/ml	100
82) Benzo(b)fluoranthene	19.058	252	994451	47.47 ug/ml	100
83) Benzo(k)fluoranthene	19.112	252	951064	49.70 ug/ml	100
84) Benzo(a)pyrene	19.647	252	773972	43.27 ug/ml	100
85) Indeno(1,2,3-cd)pyrene	21.925	276	856080	56.76 ug/ml	100
86) Dibenz(a,h)anthracene	21.957	278	707954	56.56 ug/ml	99
87) Benzo(g,h,i)perylene	22.546	276	660664	57.99 ug/ml	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On : 23 Sep 2009 3:21 pm
Operator : sheilac
Sample : icv615-50
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 23 16:57:01 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On    : 23 Sep 2009   3:21 pm
Operator  : sheilac
Sample    : icv615-50
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Sep 23 16:53:07 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration
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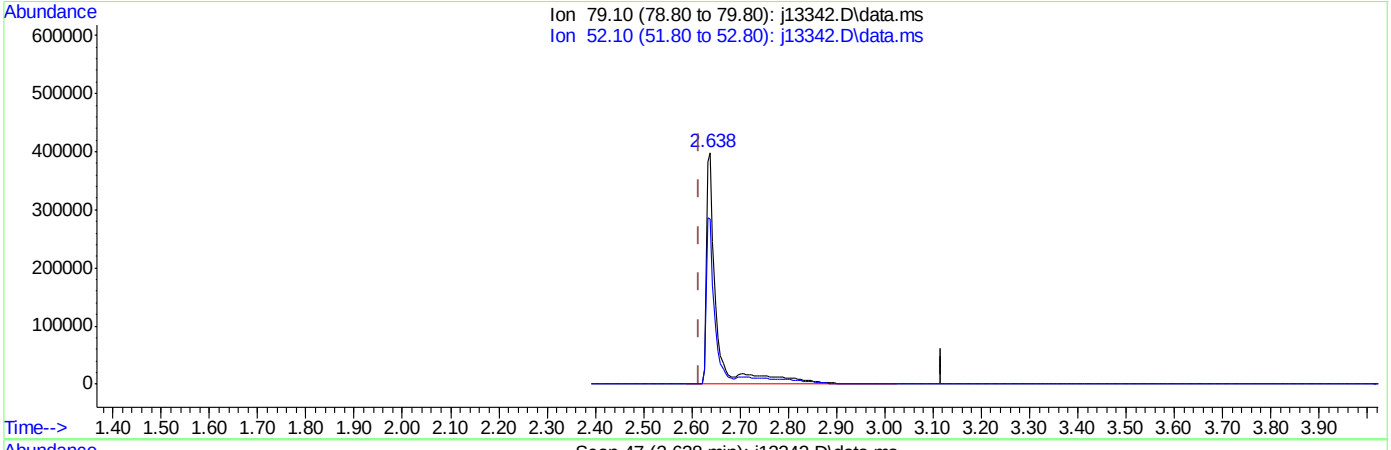
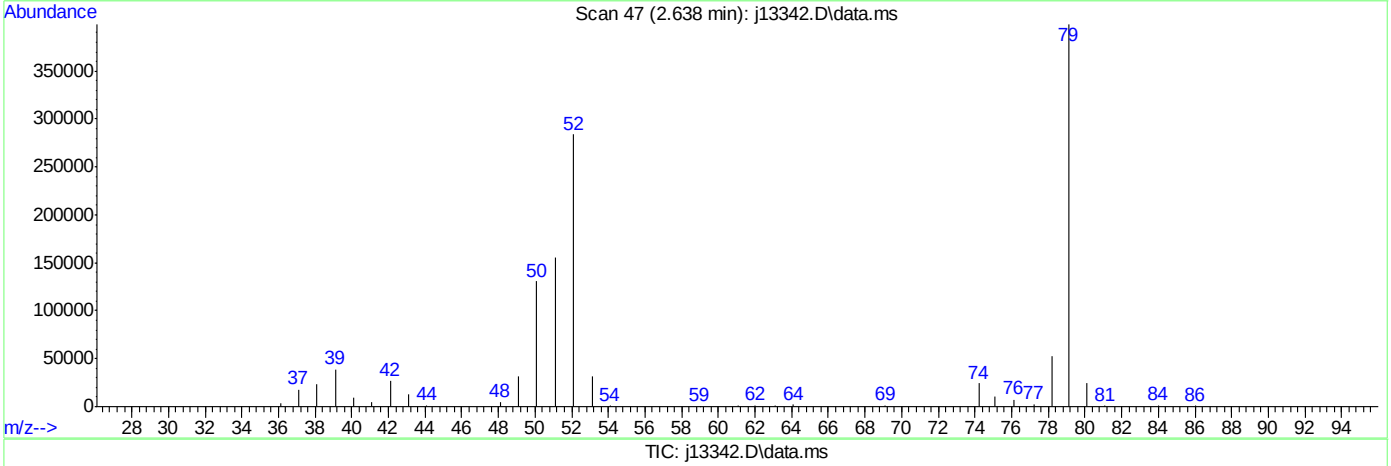




(3) Pyridine

2.638min (+0.021) 51.40ug/ml m

response 583081

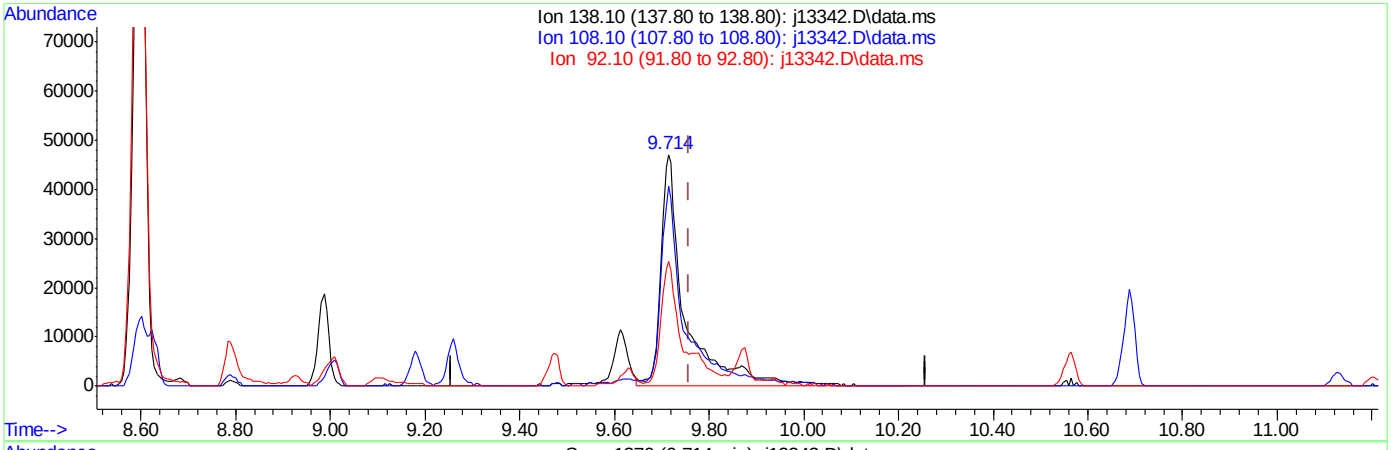
Ion	Exp%	Act%
79.10	100	100
52.10	48.30	56.42
0.00	0.00	0.00
0.00	0.00	0.00

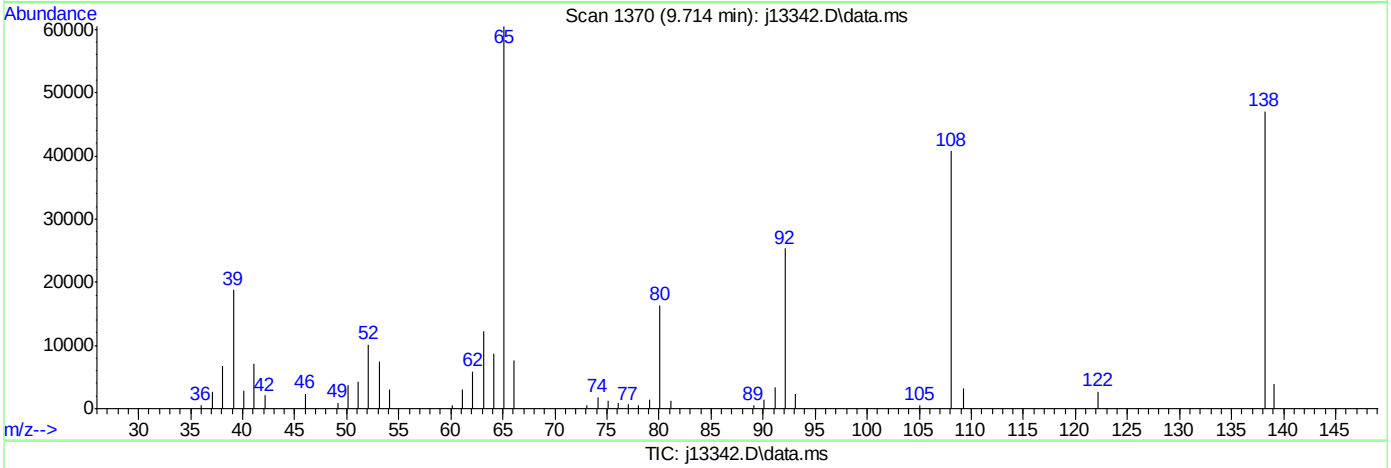
ACCUTEST Laboratories T39423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej615\
Data File : j13342.D
Acq On    : 23 Sep 2009   3:21 pm
Operator  : sheilac
Sample    : icv615-50
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 11   Sample Multiplier: 1

Quant Time: Sep 23 16:53:07 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Wed Sep 23 15:14:24 2009
Response via : Initial Calibration
```





TIC: j13342.D\data.ms

(56) 4-Nitroaniline

9.714min (-0.043) 38.48ug/ml m

response 171163

Ion	Exp%	Act%
138.10	100	100
108.10	87.60	74.30
92.10	53.80	36.28
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13689.D
Acq On : 8 Oct 2009 11:20 am
Operator : sheilac
Sample : icc629-50,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 08 12:23:53 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

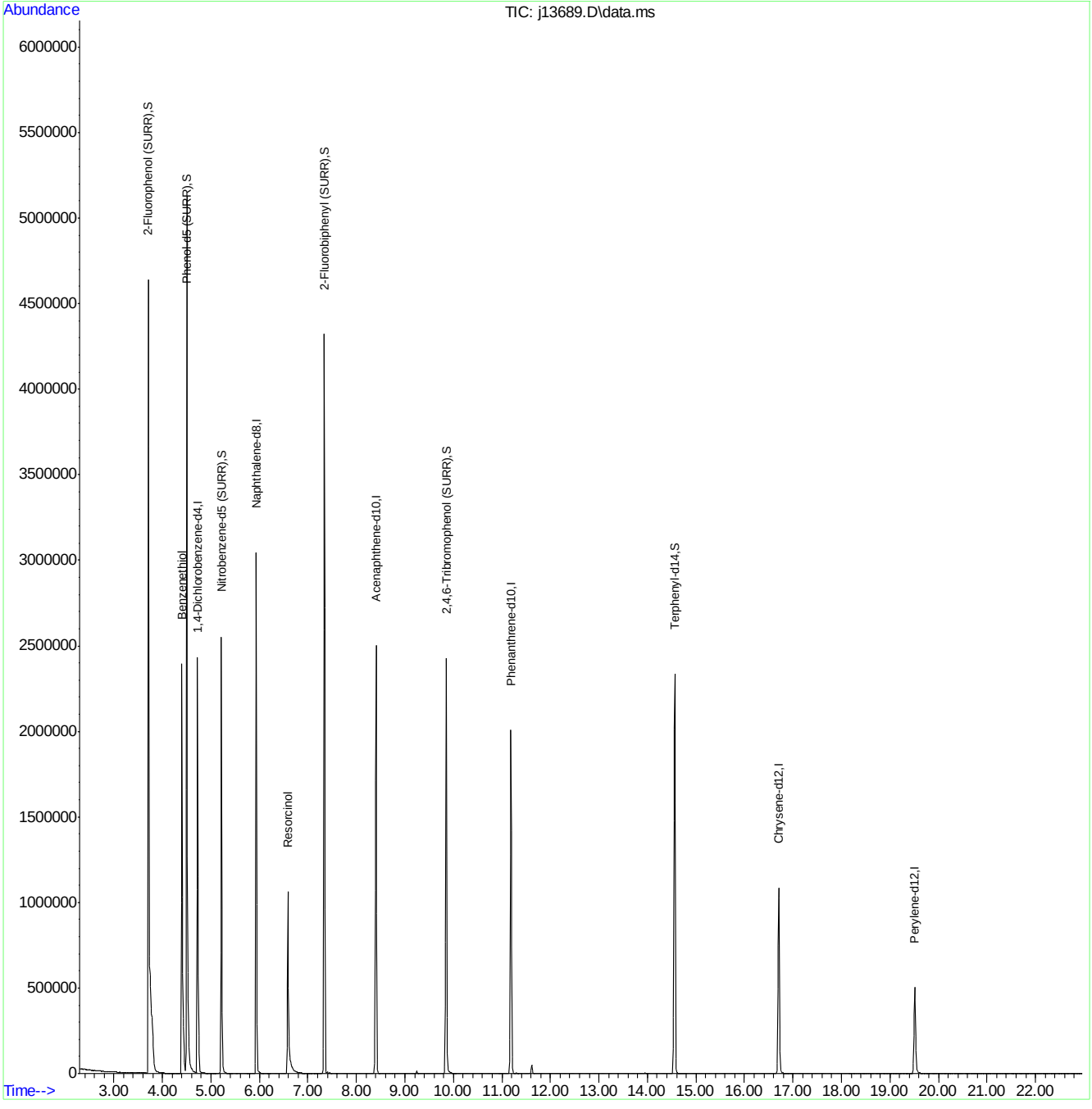
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	425311	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1500474	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	839398	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.187	188	1281434	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	790616	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	441409	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.710	112	1616531	114.53	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 114.53%#			
5) Phenol-d5 (SURR)	4.501	99	2054168	132.16	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 132.16%#			
15) Nitrobenzene-d5 (SURR)	5.218	82	927510	60.06	ug/ml	-0.05
Spiked Amount 50.000	Range 29 - 115		Recovery = 120.12%#			
22) 2-Fluorobiphenyl (SURR)	7.341	172	1715397	55.86	ug/ml	0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 111.72%			
28) 2,4,6-Tribromophenol (...	9.855	330	434108	102.90	ug/ml	0.39
Spiked Amount 100.000	Range 32 - 128		Recovery = 102.90%			
35) Terphenyl-d14	14.562	244	1231759	67.57	ug/ml	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 135.14%			
Target Compounds						Qvalue
4) Benzenethiol	4.400	110	805170	74.63	ug/ml	98
19) Resorcinol	6.587	110	543150	56.12	ug/ml	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13689.D
Acq On : 8 Oct 2009 11:20 am
Operator : sheilac
Sample : icc629-50,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 08 12:23:53 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13690.D
Acq On : 8 Oct 2009 11:50 am
Operator : sheilac
Sample : ic629-40,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 08 12:24:44 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

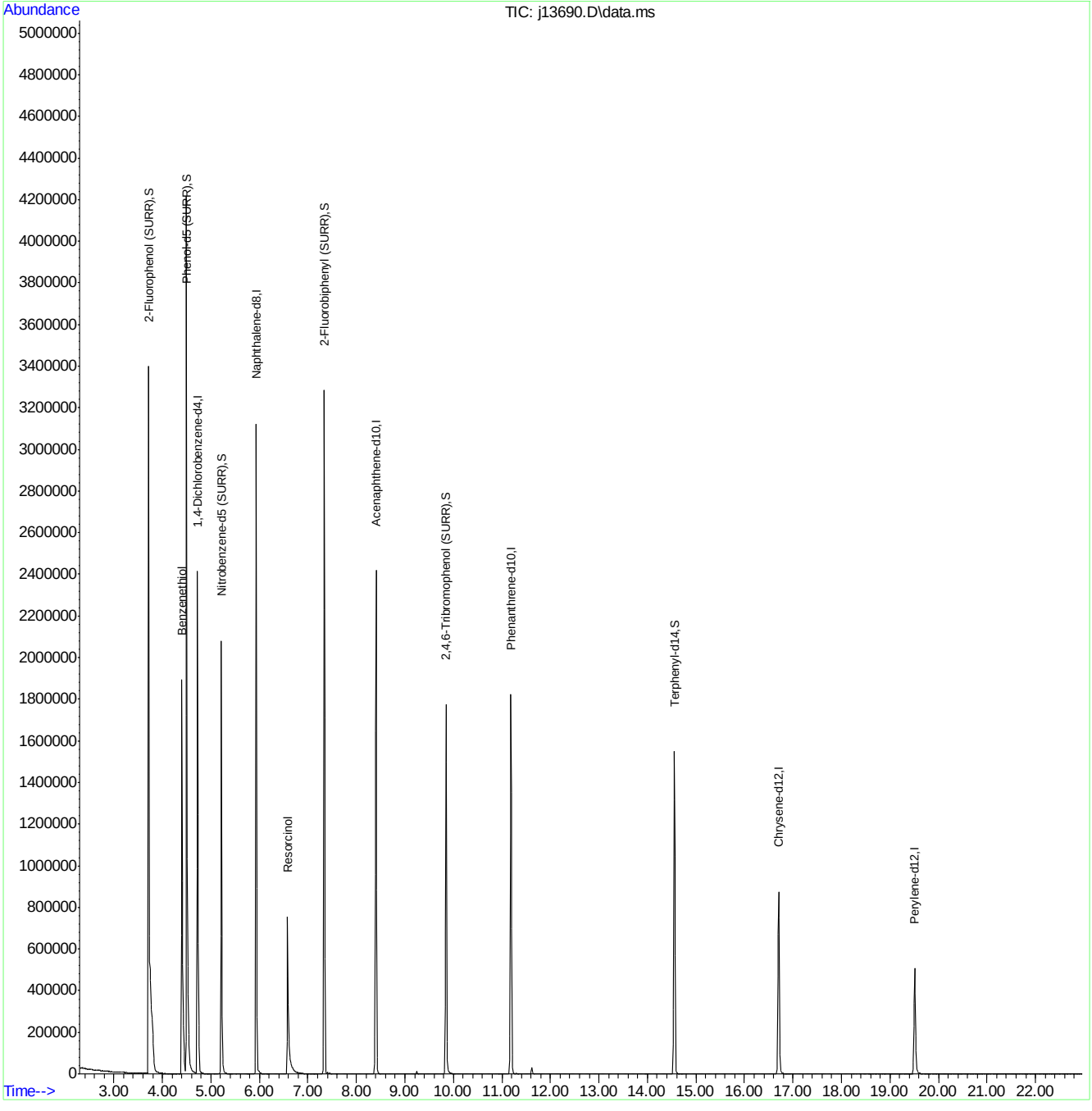
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	432948	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1506151	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	806931	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.187	188	1180761	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	648211	40.00	ug/ml	0.00
40) Perylene-d12	19.509	264	414940	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.715	112	1324933	92.21	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 92.21%#			
5) Phenol-d5 (SURR)	4.496	99	1662776	105.09	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 105.09%#			
15) Nitrobenzene-d5 (SURR)	5.218	82	744803	48.05	ug/ml	-0.05
Spiked Amount 50.000	Range 29 - 115		Recovery = 96.10%			
22) 2-Fluorobiphenyl (SURR)	7.336	172	1306323	44.25	ug/ml	0.19
Spiked Amount 50.000	Range 34 - 113		Recovery = 88.50%			
28) 2,4,6-Tribromophenol (...	9.850	330	299465	77.04	ug/ml	0.38
Spiked Amount 100.000	Range 32 - 128		Recovery = 77.04%			
35) Terphenyl-d14	14.557	244	798114	53.40	ug/ml	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 106.80%			
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	675929	61.55	ug/ml	98
19) Resorcinol	6.582	110	421176	43.35	ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13690.D
Acq On : 8 Oct 2009 11:50 am
Operator : sheilac
Sample : ic629-40,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 08 12:24:44 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13691.D
Acq On : 8 Oct 2009 12:21 pm
Operator : sheilac
Sample : ic629-75,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 14:16:59 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

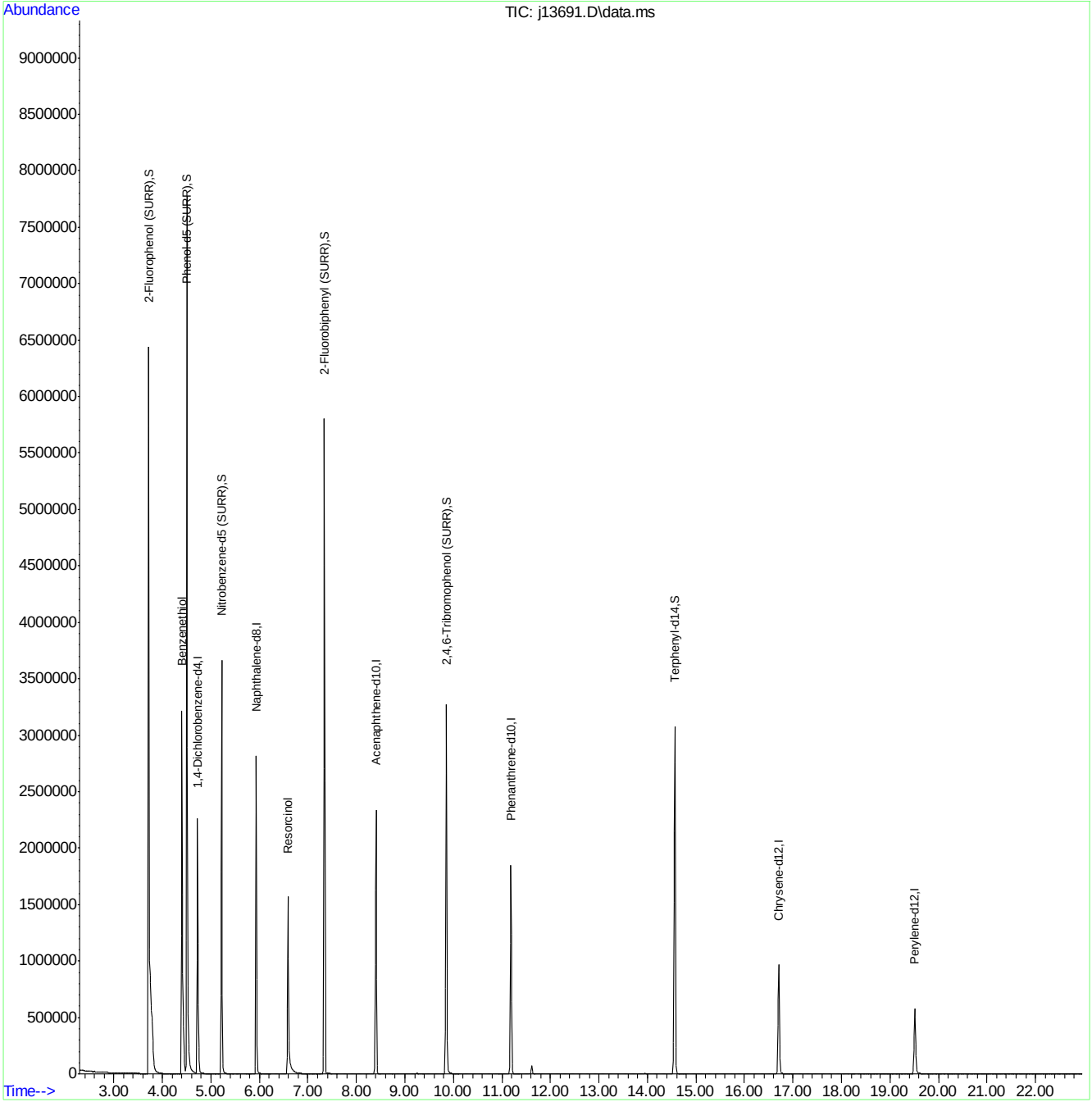
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	407460	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1406886	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	777360	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.187	188	1151046	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	723943	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	482443	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.715	112	2386547	176.49	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 176.49%#			
5) Phenol-d5 (SURR)	4.501	99	3060739	205.55	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 205.55%#			
15) Nitrobenzene-d5 (SURR)	5.223	82	1329809	91.84	ug/ml	-0.05
Spiked Amount 50.000	Range 29 - 115		Recovery = 183.68%#			
22) 2-Fluorobiphenyl (SURR)	7.341	172	2424933	85.27	ug/ml	0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 170.54%#			
28) 2,4,6-Tribromophenol (...	9.861	330	608809	160.66	ug/ml	0.39
Spiked Amount 100.000	Range 32 - 128		Recovery = 160.66%#			
35) Terphenyl-d14	14.567	244	1606294	96.23	ug/ml	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 192.46%#			
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	1143058	110.59	ug/ml	99
19) Resorcinol	6.593	110	773108	85.19	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13691.D
Acq On : 8 Oct 2009 12:21 pm
Operator : sheilac
Sample : ic629-75,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 14:16:59 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13692.D
Acq On : 8 Oct 2009 12:51 pm
Operator : sheilac
Sample : ic629-5,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 08 14:17:47 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	476533	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1652316	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	879587	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.187	188	1259292	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	748207	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	527433	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.726	112	156403	9.89	ug/ml	0.02
Spiked Amount 100.000	Range 10 - 66		Recovery = 9.89%#			
5) Phenol-d5 (SURR)	4.501	99	191894	11.02	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 11.02%			
15) Nitrobenzene-d5 (SURR)	5.218	82	88157	5.18	ug/ml	-0.05
Spiked Amount 50.000	Range 29 - 115		Recovery = 10.36%#			
22) 2-Fluorobiphenyl (SURR)	7.336	172	153848	4.78	ug/ml	0.19
Spiked Amount 50.000	Range 34 - 113		Recovery = 9.56%#			
28) 2,4,6-Tribromophenol (...	9.850	330	22833	5.51	ug/ml	0.38
Spiked Amount 100.000	Range 32 - 128		Recovery = 5.51%#			
35) Terphenyl-d14	14.551	244	91377	5.30	ug/ml	-0.01
Spiked Amount 50.000	Range 12 - 145		Recovery = 10.60%#			
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	77101	6.38	ug/ml#	82
19) Resorcinol	6.619	110	37907m	3.56	ug/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

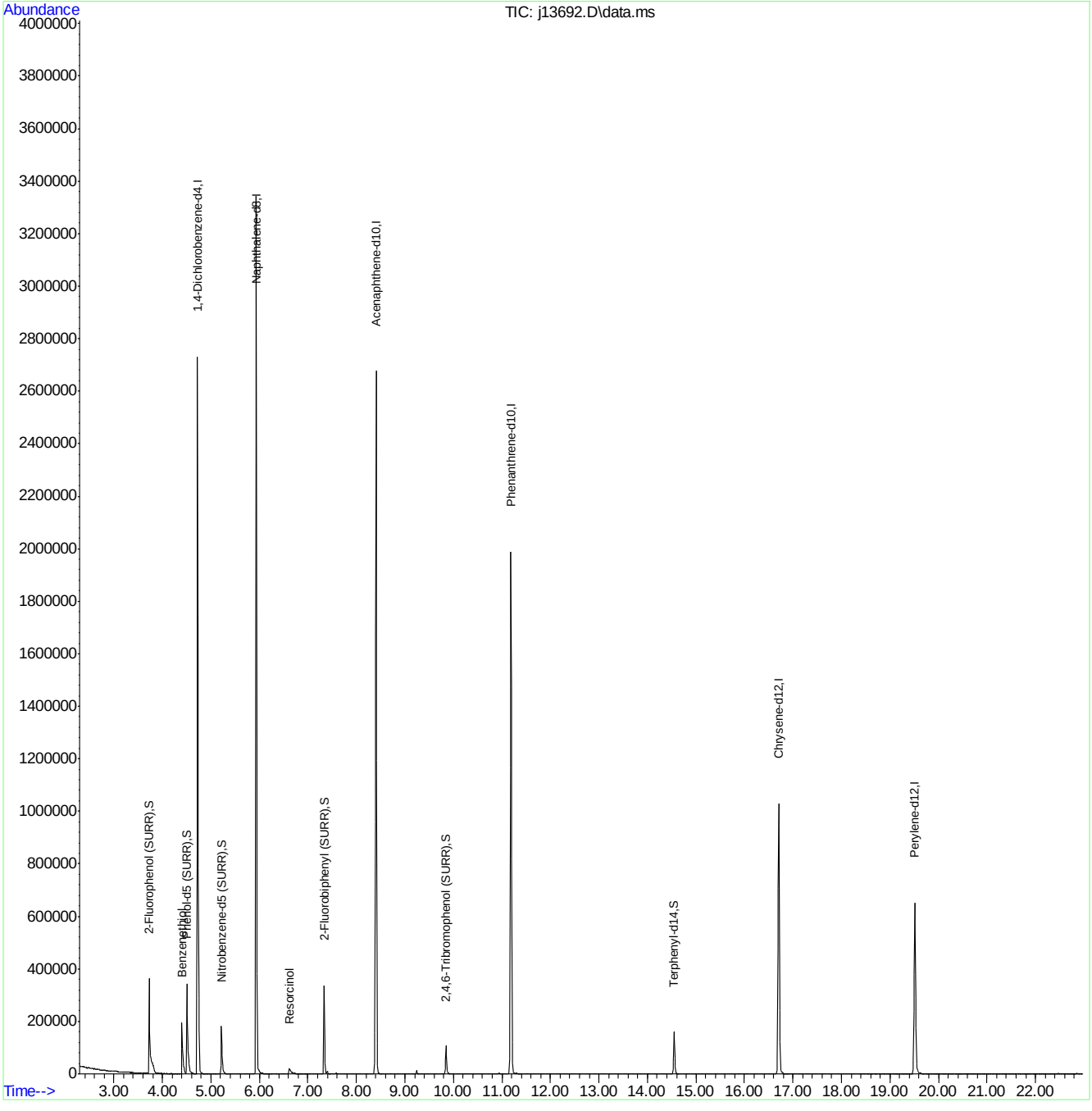
8.6.26

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13692.D
Acq On : 8 Oct 2009 12:51 pm
Operator : sheilac
Sample : ic629-5,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 08 14:17:47 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

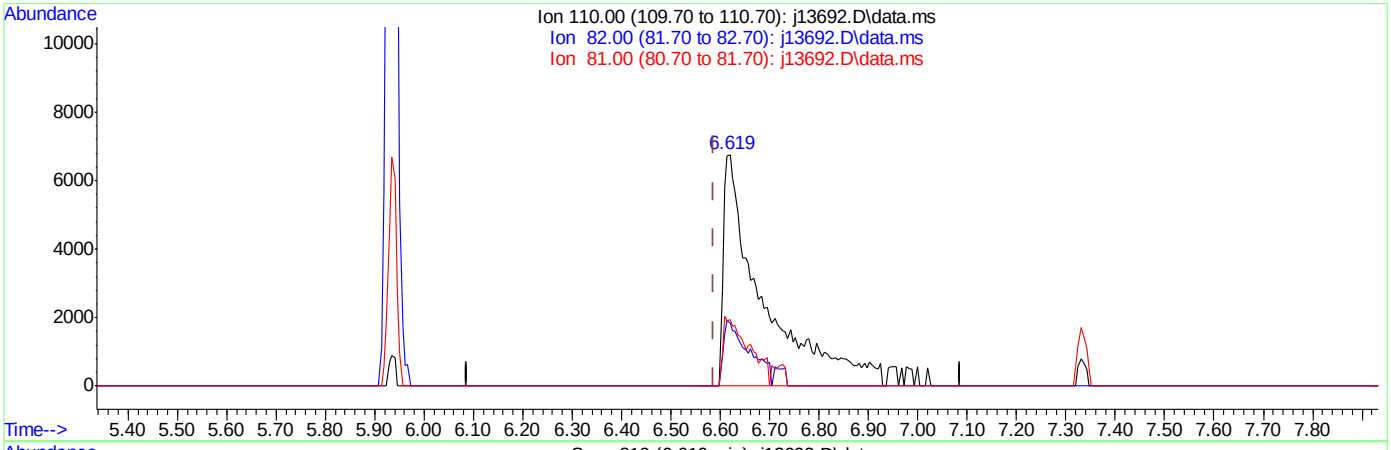


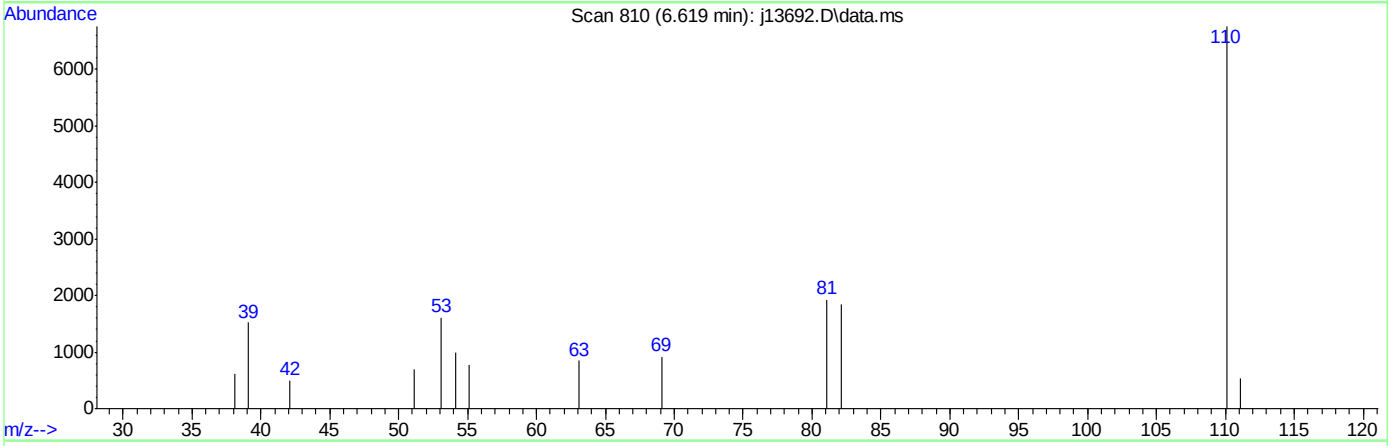
ej629ben+res.m Thu Oct 08 14:53:44 2009 Page: 2

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13692.D
Acq On    :  8 Oct 2009  12:51 pm
Operator  : sheilac
Sample    : ic629-5,(Bzth+Resor)
Misc      : op12949,Ej629,1000,,,1,1,water
ALS Vial  : 6   Sample Multiplier: 1

Quant Time: Oct 08 14:17:47 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title  :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration
```





TIC: j13692.D\data.ms

(19) Resorcinol

6.619min (+0.032) 3.56ug/ml m

response 37907

Ion	Exp%	Act%
110.00	100	100
82.00	27.40	0.00#
81.00	29.10	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13693.D
Acq On : 8 Oct 2009 1:22 pm
Operator : sheilac
Sample : ic629-25,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 14:18:08 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

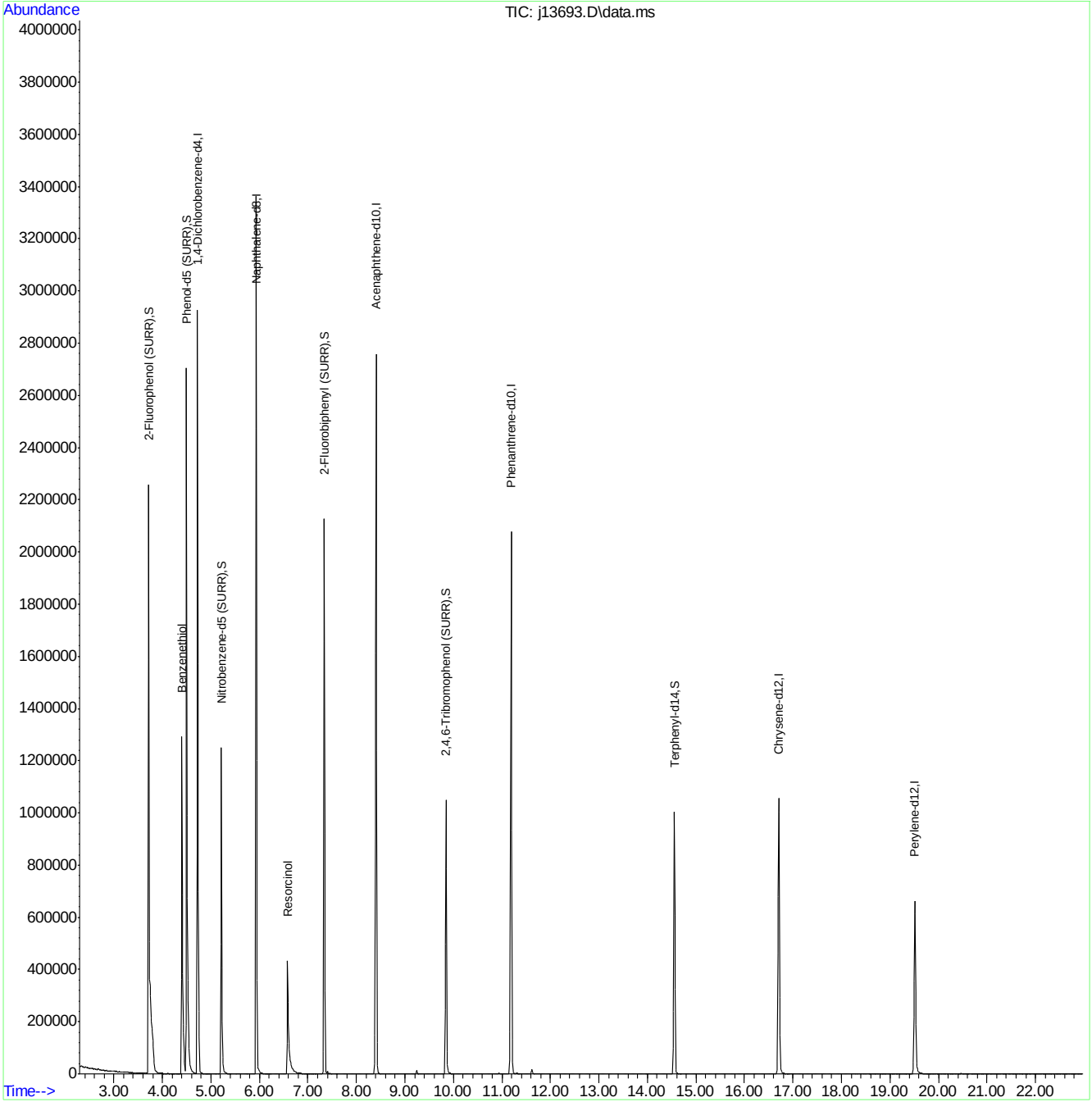
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	475641	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1645968	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	892948	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.192	188	1306835	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	782066	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	535495	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.715	112	853637	54.08	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 54.08%			
5) Phenol-d5 (SURR)	4.496	99	1067694	61.43	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 61.43%#			
15) Nitrobenzene-d5 (SURR)	5.218	82	483689	28.55	ug/ml	-0.05
Spiked Amount 50.000	Range 29 - 115		Recovery = 57.10%			
22) 2-Fluorobiphenyl (SURR)	7.336	172	840343	25.72	ug/ml	0.19
Spiked Amount 50.000	Range 34 - 113		Recovery = 51.44%			
28) 2,4,6-Tribromophenol (...	9.850	330	183130	42.56	ug/ml	0.38
Spiked Amount 100.000	Range 32 - 128		Recovery = 42.56%			
35) Terphenyl-d14	14.557	244	533528	29.59	ug/ml	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 59.18%			
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	451801	37.45	ug/ml	98
19) Resorcinol	6.582	110	261625	24.64	ug/ml	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13693.D
Acq On : 8 Oct 2009 1:22 pm
Operator : sheilac
Sample : ic629-25,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 14:18:08 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13694.D
Acq On : 8 Oct 2009 1:52 pm
Operator : sheilac
Sample : ic629-100,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 14:18:30 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	453816	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1569063	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	846788	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.192	188	1245971	40.00	ug/ml	0.45
33) Chrysene-d12	16.707	240	655946	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	427661	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.720	112	3743084	248.54	ug/ml	0.01
Spiked Amount 100.000	Range 10 - 66		Recovery = 248.54%#			
5) Phenol-d5 (SURR)	4.512	99	4864272	293.30	ug/ml	0.01
Spiked Amount 100.000	Range 10 - 53		Recovery = 293.30%#			
15) Nitrobenzene-d5 (SURR)	5.229	82	2060552	127.59	ug/ml	-0.04
Spiked Amount 50.000	Range 29 - 115		Recovery = 255.18%#			
22) 2-Fluorobiphenyl (SURR)	7.352	172	3759153	121.34	ug/ml	0.21
Spiked Amount 50.000	Range 34 - 113		Recovery = 242.68%#			
28) 2,4,6-Tribromophenol (...	9.871	330	1013581	247.09	ug/ml	0.40
Spiked Amount 100.000	Range 32 - 128		Recovery = 247.09%#			
35) Terphenyl-d14	14.573	244	2266528	149.86	ug/ml	0.01
Spiked Amount 50.000	Range 12 - 145		Recovery = 299.72%#			
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	1827357	158.74	ug/ml	99
19) Resorcinol	6.598	110	1263288	124.82	ug/ml	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

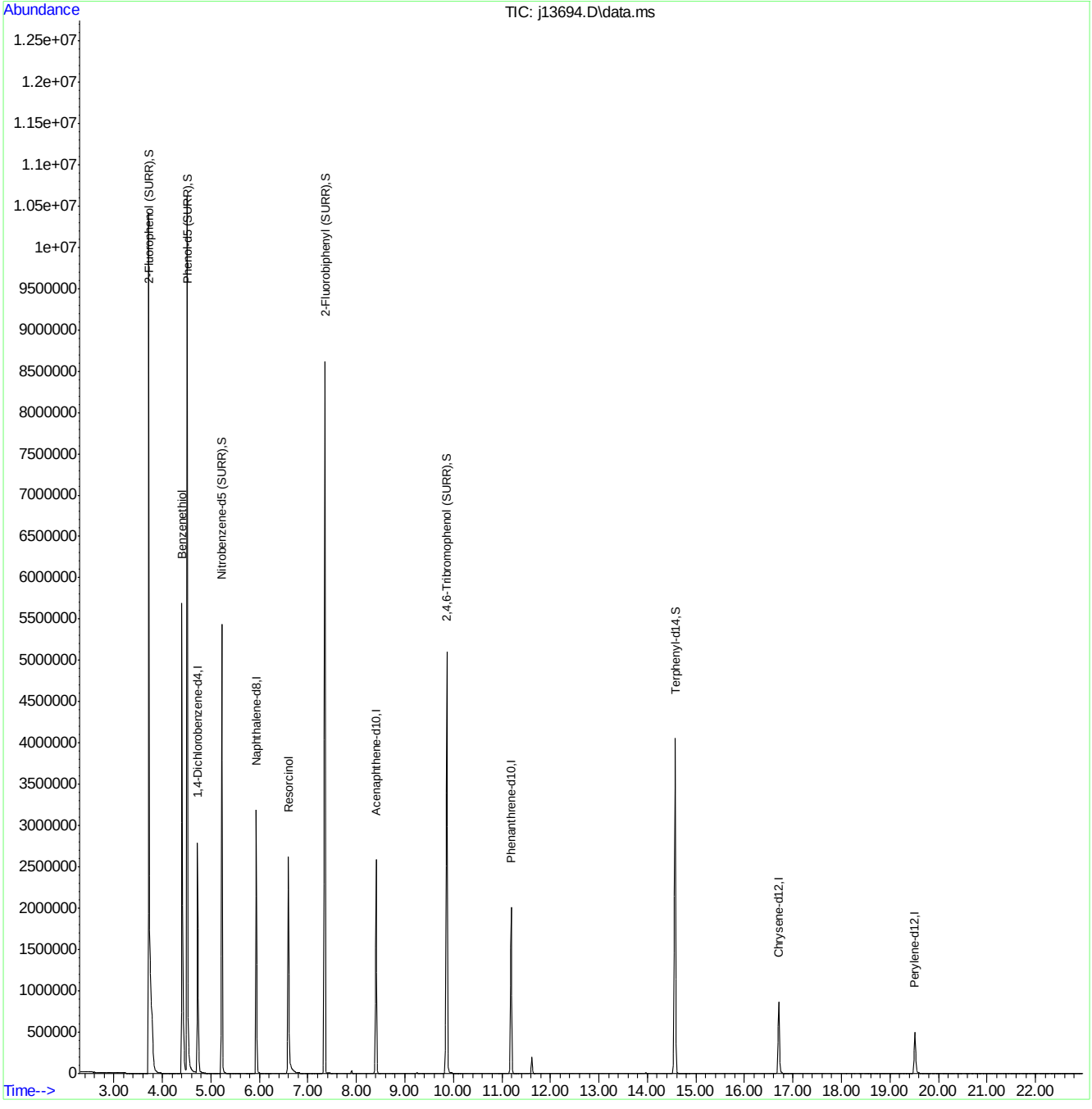
8.6.28

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13694.D
Acq On : 8 Oct 2009 1:52 pm
Operator : sheilac
Sample : ic629-100,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 14:18:30 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 11:56:07 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13695.D
Acq On : 8 Oct 2009 2:26 pm
Operator : sheilac
Sample : icv629-50,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 08 14:51:49 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 14:50:46 2009
Response via : Initial Calibration

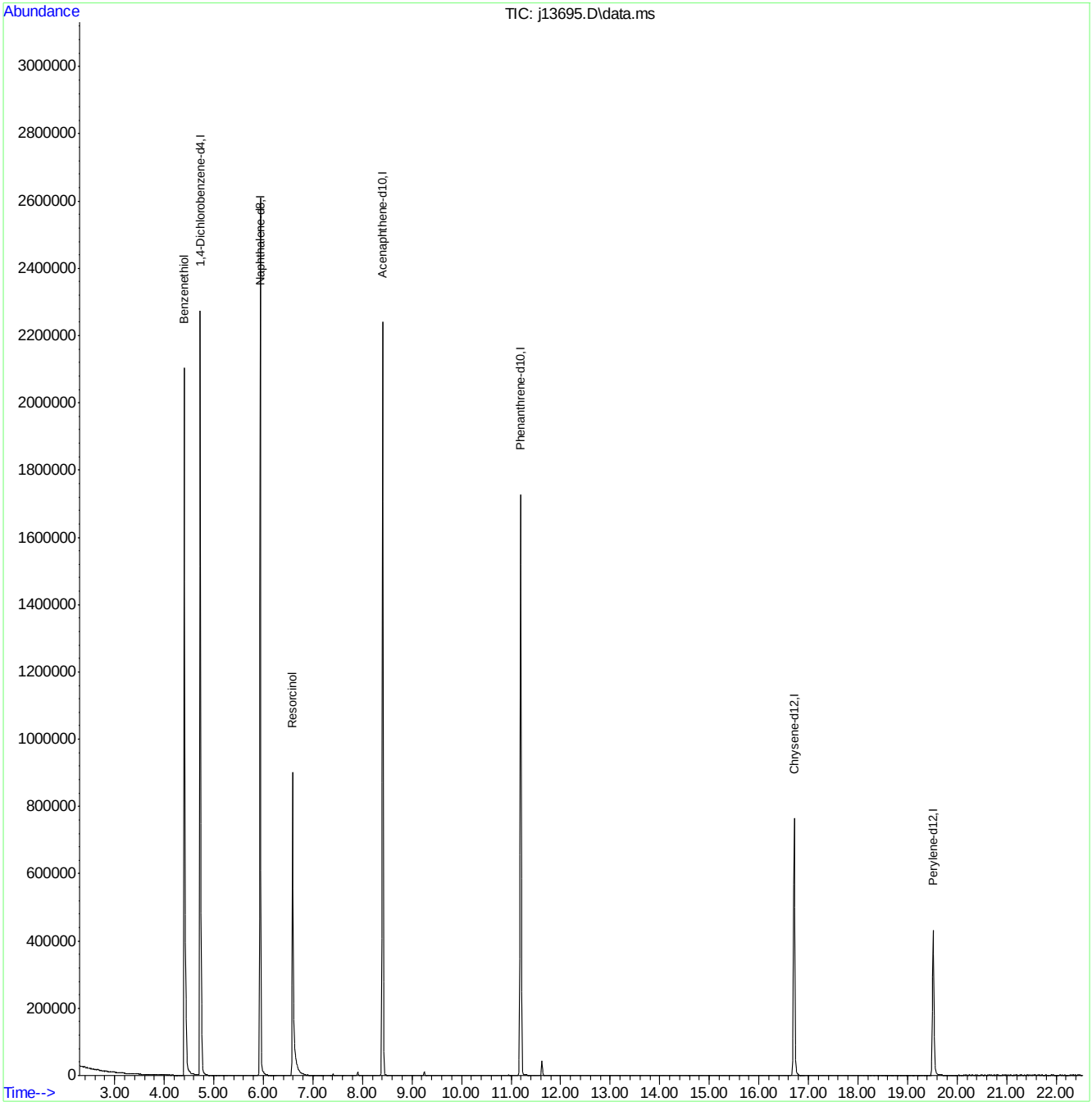
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	386125	40.00	ug/ml	0.00
14) Naphthalene-d8	5.940	136	1353260	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.411	164	734185	40.00	ug/ml	0.00
27) Phenanthrene-d10	11.192	188	1056391	40.00	ug/ml	0.00
33) Chrysene-d12	16.712	240	572562	40.00	ug/ml	0.00
40) Perylene-d12	19.515	264	373851	40.00	ug/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	0.000	112	0	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 66		Recovery	=	0.00%#	
5) Phenol-d5 (SURR)	0.000	99	0	0.00	ug/ml	
Spiked Amount 100.000	Range 10 - 53		Recovery	=	0.00%#	
15) Nitrobenzene-d5 (SURR)	0.000	82	0	0.00	ug/ml	
Spiked Amount 50.000	Range 29 - 115		Recovery	=	0.00%#	
22) 2-Fluorobiphenyl (SURR)	0.000	172	0	0.00	ug/ml	
Spiked Amount 50.000	Range 34 - 113		Recovery	=	0.00%#	
28) 2,4,6-Tribromophenol (...	0.000	330	0	0.00	ug/ml	
Spiked Amount 100.000	Range 32 - 128		Recovery	=	0.00%#	
35) Terphenyl-d14	0.000	244	0	0.00	ug/ml	
Spiked Amount 50.000	Range 12 - 145		Recovery	=	0.00%#	
Target Compounds						Qvalue
4) Benzenethiol	4.405	110	707244	48.86	ug/ml	99
19) Resorcinol	6.587	110	470278	47.27	ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13695.D
Acq On : 8 Oct 2009 2:26 pm
Operator : sheilac
Sample : icv629-50,(Bzth+Resor)
Misc : op12949,Ej629,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 08 14:51:49 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 14:50:46 2009
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/13/09 12:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13756.D
Acq On : 12 Oct 2009 4:42 pm
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej632,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 17:05:20 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	602641	40.00	ug/ml	0.00
20) Naphthalene-d8	5.945	136	2106069	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.422	164	1177016	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.203	188	1548225	40.00	ug/ml	0.00
71) Chrysene-d12	16.739	240	1265663	40.00	ug/ml	0.00
80) Perylene-d12	19.531	264	641250	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.710	112	1932489	102.18	ug/ml	0.03
Spiked Amount 100.000	Range 10 - 66		Recovery	= 102.18%#		
5) Phenol-d5 (SURR)	4.507	99	2572003	108.82	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery	= 108.82%#		
21) Nitrobenzene-d5 (SURR)	5.229	82	1165436	52.77	ug/ml	-0.07
Spiked Amount 50.000	Range 29 - 115		Recovery	= 105.54%		
40) 2-Fluorobiphenyl (SURR)	7.352	172	2309137	48.19	ug/ml	-0.19
Spiked Amount 50.000	Range 34 - 113		Recovery	= 96.38%		
62) 2,4,6-Tribromophenol (...	9.877	330	514517	98.77	ug/ml	-0.09
Spiked Amount 100.000	Range 32 - 128		Recovery	= 98.77%		
74) Terphenyl-d14	14.573	244	1430564	47.34	ug/ml	-0.02
Spiked Amount 50.000	Range 12 - 145		Recovery	= 94.68%		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.463	74	526617	51.99	ug/ml	100
3) Pyridine	2.442	79	943512m	52.79	ug/ml	
6) Phenol	4.517	94	1409424	55.10	ug/ml	98
7) Aniline	4.480	93	1458652	51.14	ug/ml	96
8) bis(2-Chloroethyl)ether	4.528	93	1199885	47.85	ug/ml	95
9) 2-Chlorophenol	4.581	128	983644	49.58	ug/ml	99
10) 1,3-Dichlorobenzene	4.678	146	1115724	49.64	ug/ml	99
11) 1,4-Dichlorobenzene	4.742	146	1219711	50.58	ug/ml	99
12) Benzyl Alcohol	4.881	108	673763	48.74	ug/ml	99
13) 1,2-Dichlorobenzene	4.870	146	1147711	50.74	ug/ml	99
14) 2-Methylphenol	4.988	108	871626	48.61	ug/ml#	89
15) bis(2-chloroisopropyl)...	4.972	45	1576516	49.65	ug/ml#	74
16) 4-Methylphenol	5.138	108	892758	47.06	ug/ml	100
17) m+p-Cresols	5.138	108	892758	47.06	ug/ml	100
18) n-Nitroso-di-n-propyla...	5.111	70	840568	48.85	ug/ml	99
19) Hexachloroethane	5.164	117	446286	50.72	ug/ml	100
22) Nitrobenzene	5.250	77	1148691	52.95	ug/ml	99
23) Isophorone	5.485	82	2002609	50.28	ug/ml	99
24) 2-Nitrophenol	5.550	139	497075	49.84	ug/ml	98
25) 2,4-Dimethylphenol	5.630	122	851734	51.64	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.689	93	1127957	51.39	ug/ml	100
27) Benzoic Acid	5.828	105	400384	48.88	ug/ml	99
28) 2,4-Dichlorophenol	5.828	162	746543	51.46	ug/ml	96
29) 1,2,4-Trichlorobenzene	5.881	180	907097	51.96	ug/ml	100
30) Naphthalene	5.972	128	3039785	52.99	ug/ml	100
31) 4-Chloroaniline	6.042	127	1042527	49.94	ug/ml	99
32) Hexachlorobutadiene	6.111	225	581264	53.03	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13756.D
Acq On : 12 Oct 2009 4:42 pm
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej632,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 17:05:20 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.673	107	800239	48.84	ug/ml	98
34) 2-Methylnaphthalene	6.817	142	1811384	51.69	ug/ml	99
35) 1-Methylnaphthalene	6.951	142	1906240	51.94	ug/ml	99
37) Hexachlorocyclopentadiene	7.042	237	218316	44.26	ug/ml	96
38) 2,4,6-Trichlorophenol	7.245	196	477269	48.59	ug/ml	100
39) 2,4,5-Trichlorophenol	7.325	196	487876	42.08	ug/ml	99
41) 2-Chloronaphthalene	7.518	162	1657828	50.41	ug/ml	100
42) 2-Nitroaniline	7.710	65	534105	48.30	ug/ml	98
43) Dimethylphthalate	8.042	163	1834501	46.41	ug/ml	100
44) Acenaphthylene	8.181	152	2681696	48.11	ug/ml	100
45) 2,6-Dinitrotoluene	8.122	165	426688	45.88	ug/ml#	82
46) 3-Nitroaniline	8.416	138	408171	47.18	ug/ml	99
47) Acenaphthene	8.481	154	1613575	49.27	ug/ml	100
48) 2,4-Dinitrophenol	8.604	184	141677	47.69	ug/ml	94
49) 4-Nitrophenol	8.876	65	162629	31.35	ug/ml#	88
50) Dibenzofuran	8.780	168	2262222	48.36	ug/ml	99
51) 2,4-Dinitrotoluene	8.828	165	491873	44.16	ug/ml	98
52) 2,3,4,6-Tetrachlorophenol	9.048	232	368363	42.49	ug/ml	100
53) Diethylphthalate	9.288	149	1906324	46.49	ug/ml	99
54) Fluorene	9.406	166	1935311	47.47	ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.427	204	960218	45.70	ug/ml	99
56) 4-Nitroaniline	9.534	138	270179	40.58	ug/ml	93
58) 1,2-Diphenylhydrazine	9.727	77	2016607	51.22	ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.598	198	229947	46.22	ug/ml	98
60) Diphenylamine	9.679	169	1479235	51.05	ug/ml	100
61) n-Nitrosodiphenylamine	9.679	169	1479235	51.05	ug/ml	100
63) 4-Bromophenyl-phenylether	10.353	248	498461	51.00	ug/ml	99
64) Hexachlorobenzene	10.481	284	529543	49.73	ug/ml	97
65) Pentachlorophenol	10.909	266	158745	44.39	ug/ml	99
66) Phenanthrene	11.257	178	2235074	48.45	ug/ml	100
67) Anthracene	11.358	178	2178661	49.05	ug/ml	99
68) Carbazole	11.727	167	1638793	45.83	ug/ml	100
69) Di-n-butylphthalate	12.556	149	2694951	48.65	ug/ml	100
70) Fluoranthene	13.701	202	1967249	47.04	ug/ml	100
72) Benzidine	14.054	184	441943	43.91	ug/ml	99
73) Pyrene	14.156	202	1996193	44.76	ug/ml	100
75) Butylbenzylphthalate	15.675	149	946119	47.64	ug/ml	99
76) Benzo(a)anthracene	16.712	228	1727445	48.52	ug/ml	99
77) 3,3'-Dichlorobenzidine	16.718	252	424714	48.67	ug/ml	98
78) Chrysene	16.792	228	1498744	49.94	ug/ml	100
79) bis(2-Ethylhexyl)phtha...	16.948	149	1317739	49.38	ug/ml	99
81) Di-n-octylphthalate	18.237	149	1930136	56.82	ug/ml	100
82) Benzo(b)fluoranthene	18.846	252	1048068	49.46	ug/ml	100
83) Benzo(k)fluoranthene	18.900	252	1083363	55.97	ug/ml	99
84) Benzo(a)pyrene	19.429	252	921000	50.90	ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.633	276	676851	44.37	ug/ml	97
86) Dibenz(a,h)anthracene	21.654	278	571446	45.13	ug/ml	96
87) Benzo(g,h,i)perylene	22.221	276	504428m	43.77	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13756.D
Acq On : 12 Oct 2009 4:42 pm
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej632,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 17:05:20 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

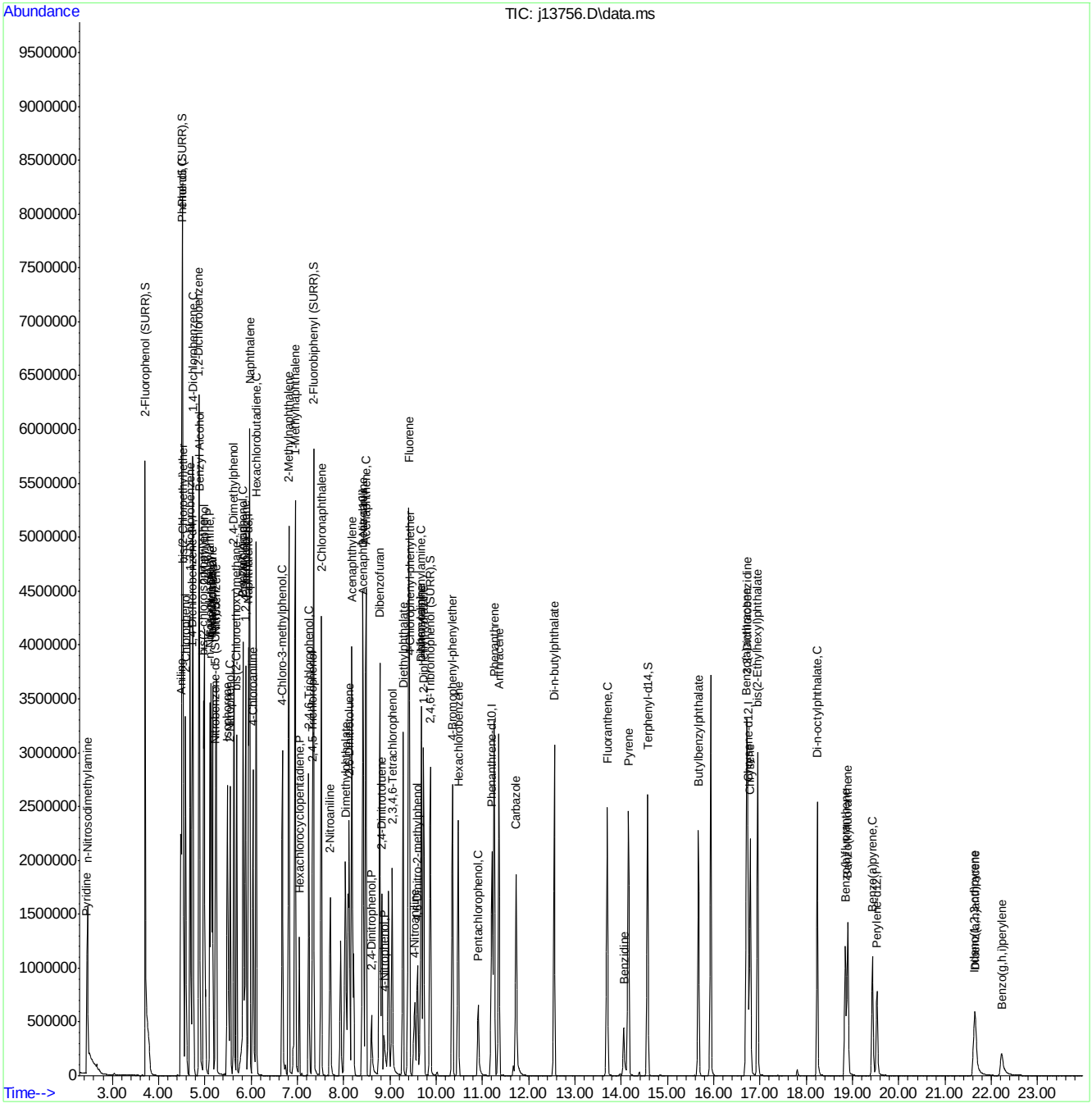
8.6.30

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13756.D
Acq On : 12 Oct 2009 4:42 pm
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej632,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 17:05:20 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration



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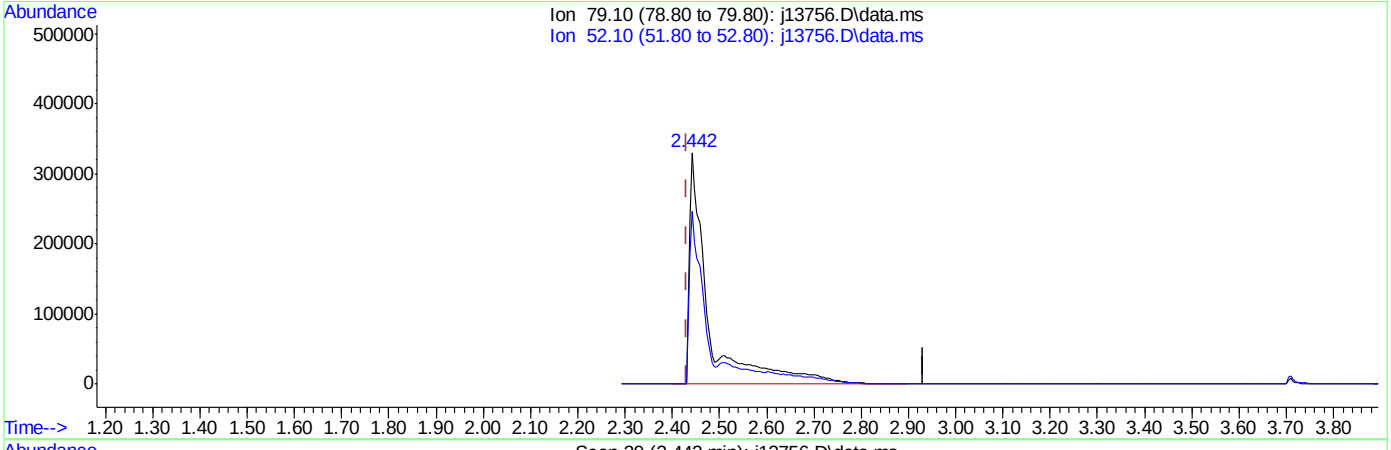
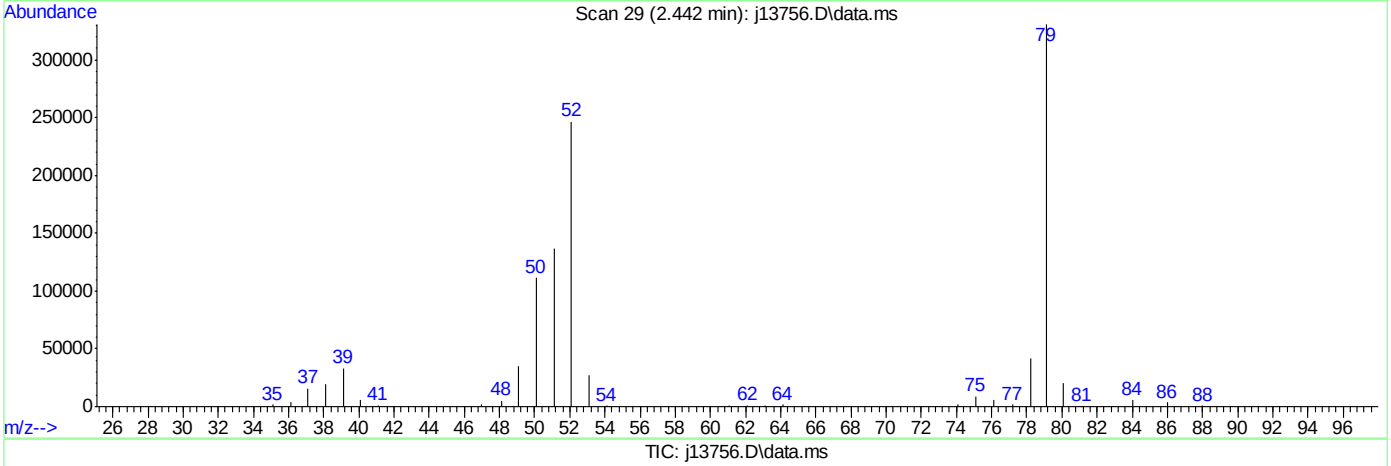
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13756.D
Acq On : 12 Oct 2009 4:42 pm
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej632,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 17:05:20 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration





(3) Pyridine

2.442min (+0.010) 52.79ug/ml m

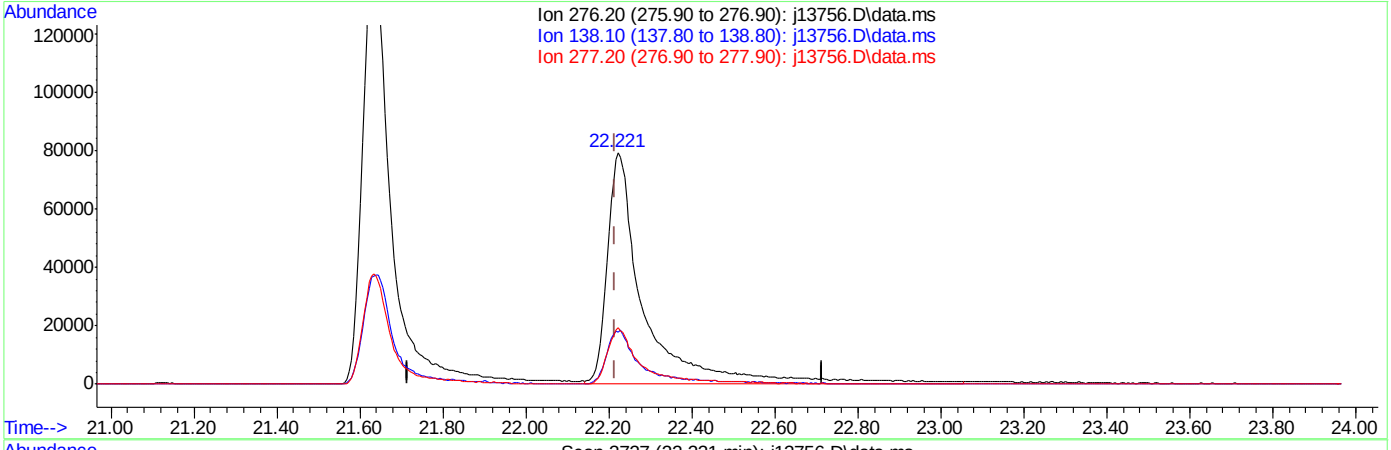
response 943512

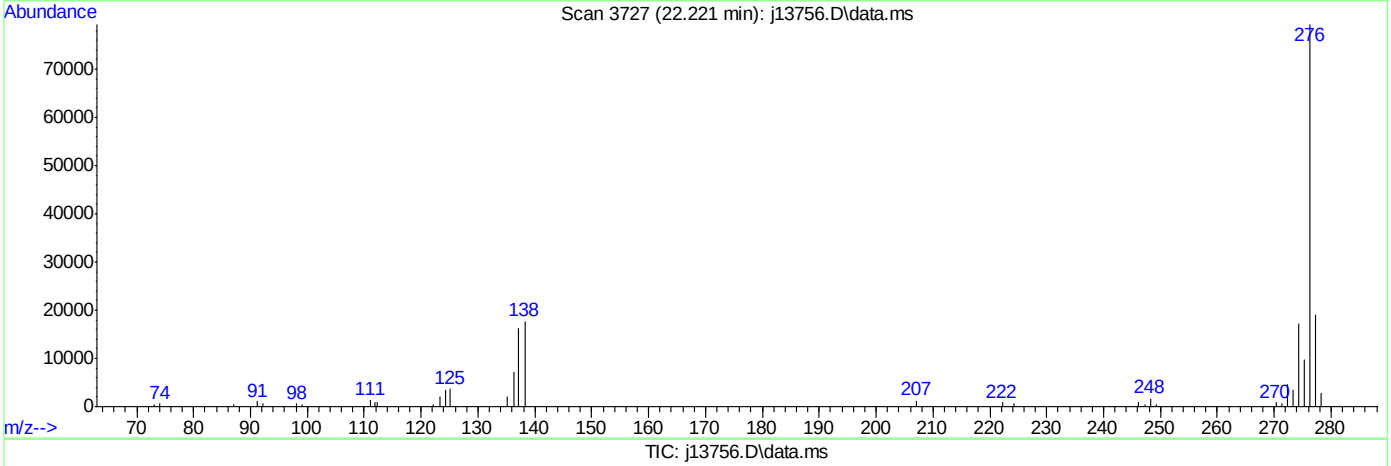
Ion	Exp%	Act%
79.10	100	100
52.10	72.60	47.64#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13756.D
Acq On : 12 Oct 2009 4:42 pm
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej632,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 12 17:05:20 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration





TIC: j13756.D\data.ms

(87) Benzo(g,h,i)perylene

22.221min (+0.006) 43.77ug/ml m

response 504428

Ion	Exp%	Act%
276.20	100	100
138.10	23.30	18.45
277.20	23.80	19.23
0.00	0.00	0.00

ACCUTEST Laboratories

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13757.D
Acq On : 12 Oct 2009 5:12 pm
Operator : sheilac
Sample : cc629-50,(Bnth+Resor)
Misc : op12949,Ej632,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 12 17:37:11 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 14:53:20 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.721	152	659795	40.00	ug/ml	0.00
14) Naphthalene-d8	5.929	136	2244339	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.400	164	1135730	40.00	ug/ml	0.00
27) Phenanthrene-d10	11.182	188	1234800	40.00	ug/ml	-0.01
33) Chrysene-d12	16.707	240	574808	40.00	ug/ml	0.00
40) Perylene-d12	19.526	264	324937	40.00	ug/ml	0.01
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.710	112	2444059	98.66	ug/ml	-0.01
Spiked Amount 100.000	Range 10 - 66		Recovery = 98.66%#			
5) Phenol-d5 (SURR)	4.496	99	2952366	94.16	ug/ml	-0.02
Spiked Amount 100.000	Range 10 - 53		Recovery = 94.16%#			
15) Nitrobenzene-d5 (SURR)	5.218	82	1368449	50.19	ug/ml	-0.01
Spiked Amount 50.000	Range 29 - 115		Recovery = 100.38%			
22) 2-Fluorobiphenyl (SURR)	7.336	172	2417980	53.24	ug/ml	-0.02
Spiked Amount 50.000	Range 34 - 113		Recovery = 106.48%			
28) 2,4,6-Tribromophenol (...	9.850	330	399380	94.29	ug/ml	-0.02
Spiked Amount 100.000	Range 32 - 128		Recovery = 94.29%			
35) Terphenyl-d14	14.557	244	1005036	59.01	ug/ml	-0.02
Spiked Amount 50.000	Range 12 - 145		Recovery = 118.02%			
Target Compounds						Qvalue
4) Benzenethiol	4.400	110	1141606	46.16	ug/ml	99
19) Resorcinol	6.593	110	508933m	32.50	ug/ml	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

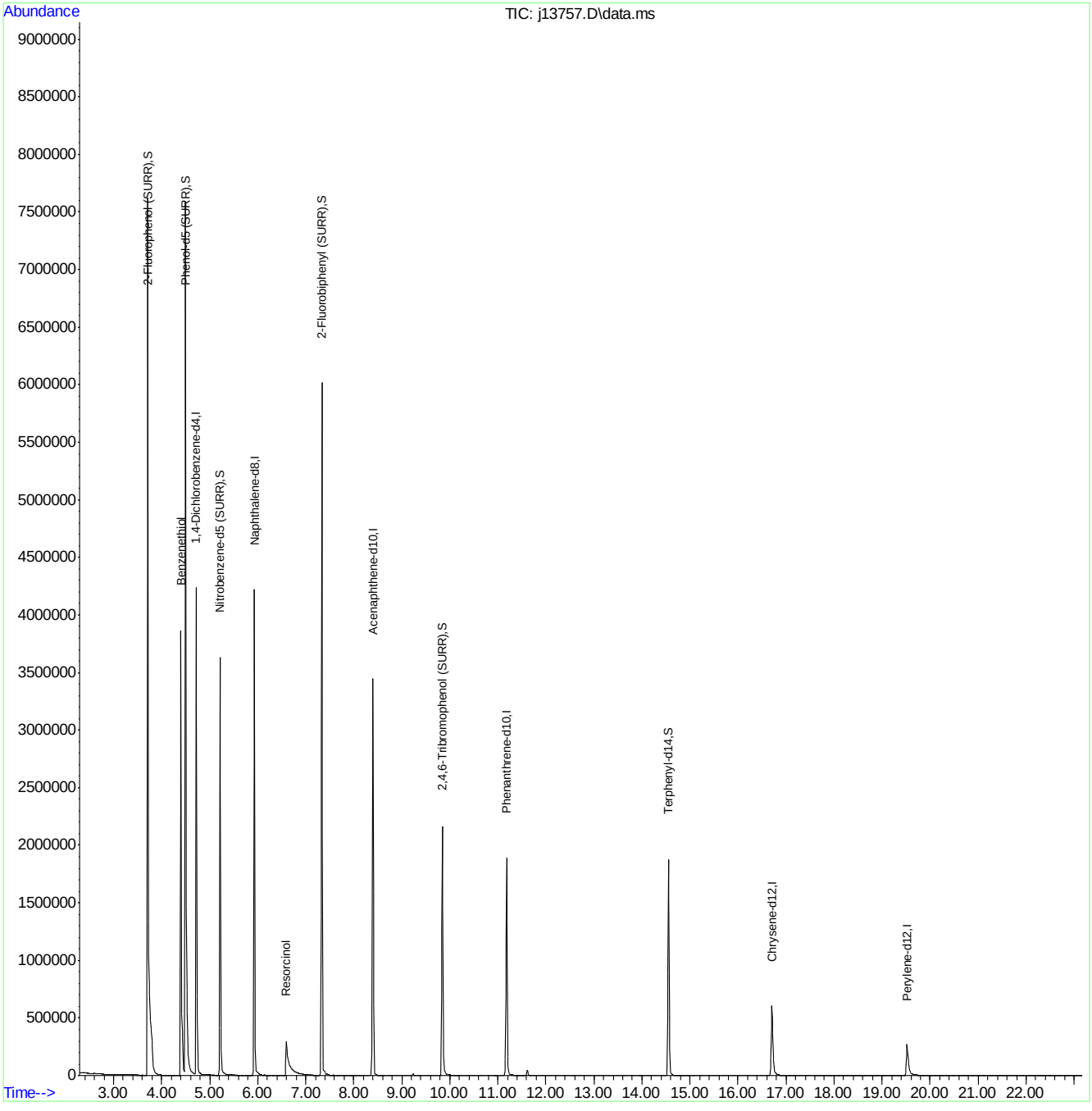
8.6.31

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13757.D
Acq On : 12 Oct 2009 5:12 pm
Operator : sheilac
Sample : cc629-50,(Bnth+Resor)
Misc : op12949,Ej632,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 12 17:37:11 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title :
QLast Update : Thu Oct 08 14:53:20 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39423

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\ej632\
Data File : j13757.D
Acq On    : 12 Oct 2009   5:12 pm
Operator  : sheilac
Sample    : cc629-50,(Bnth+Resor)
Misc      : op12949,Ej632,1000,,,1,1,water
ALS Vial  : 3   Sample Multiplier: 1

Quant Time: Oct 12 17:37:11 2009
Quant Method : C:\msdchem\1\METHODS\ej629ben+res.m
Quant Title  :
QLast Update : Thu Oct 08 14:53:20 2009
Response via : Initial Calibration
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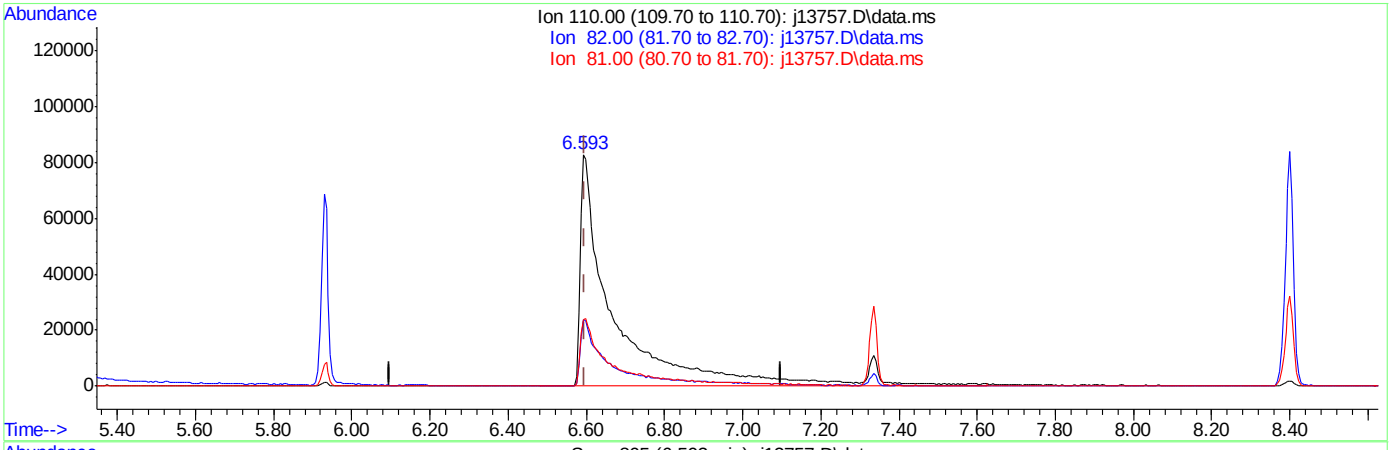
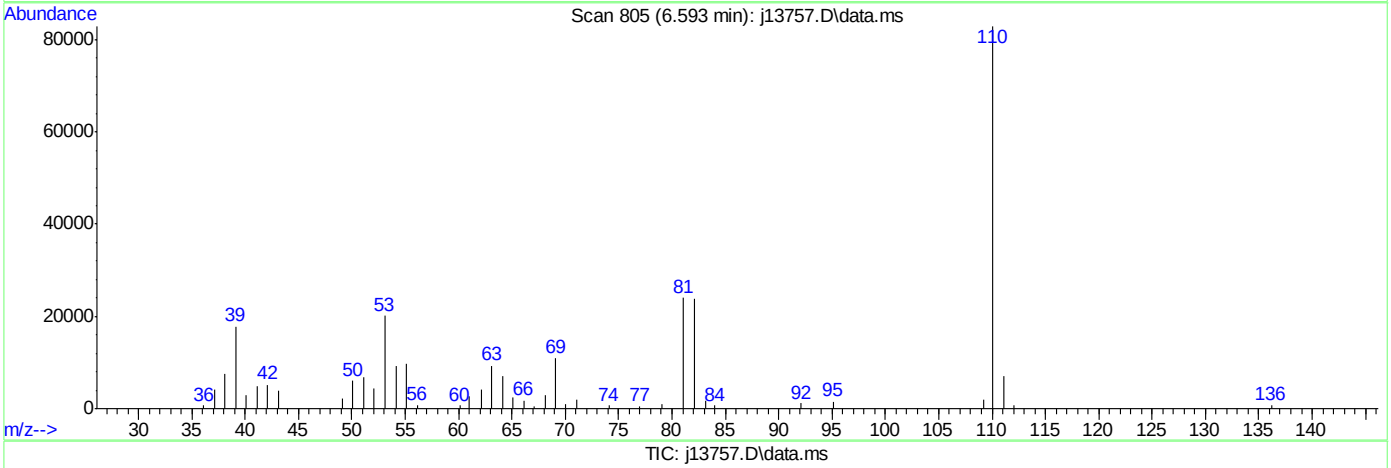




(19) Resorcinol

6.593min (-0.005) 32.50ug/ml m

response 508933

Ion	Exp%	Act%
110.00	100	100
82.00	27.20	19.74
81.00	29.30	20.09
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/13/09 13:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13784.D
Acq On : 13 Oct 2009 11:00 am
Operator : sheilac
Sample : cc615-75
Misc : op12949,Ej633,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 13 12:20:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.704	152	555737	40.00	ug/ml	-0.02
20) Naphthalene-d8	5.913	136	1893633	40.00	ug/ml	-0.03
36) Acenaphthene-d10	8.374	164	1102945	40.00	ug/ml	-0.04
57) Phenanthrene-d10	11.155	188	1593994	40.00	ug/ml	-0.05
71) Chrysene-d12	16.685	240	1794959	40.00	ug/ml	-0.05
80) Perylene-d12	19.477	264	951436	40.00	ug/ml	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.688	112	2608334	149.56	ug/ml	0.01
Spiked Amount 100.000	Range 10 - 66		Recovery = 149.56%#			
5) Phenol-d5 (SURR)	4.490	99	3340966	153.28	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 153.28%#			
21) Nitrobenzene-d5 (SURR)	5.207	82	1459073	73.48	ug/ml	-0.09
Spiked Amount 50.000	Range 29 - 115		Recovery = 146.96%#			
40) 2-Fluorobiphenyl (SURR)	7.309	172	2981922	66.11	ug/ml	-0.23
Spiked Amount 50.000	Range 34 - 113		Recovery = 132.22%#			
62) 2,4,6-Tribromophenol (...	9.834	330	843657	157.30	ug/ml	-0.13
Spiked Amount 100.000	Range 32 - 128		Recovery = 157.30%#			
74) Terphenyl-d14	14.519	244	2422456	56.52	ug/ml	-0.08
Spiked Amount 50.000	Range 12 - 145		Recovery = 113.04%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.447	74	680102m	72.81	ug/ml	
3) Pyridine	2.421	79	1237716m	75.09	ug/ml	
6) Phenol	4.501	94	1826261	77.42	ug/ml	94
7) Aniline	4.464	93	1947339	77.16	ug/ml	96
8) bis(2-Chloroethyl)ether	4.507	93	1421098	61.46	ug/ml	91
9) 2-Chlorophenol	4.560	128	1261222	68.93	ug/ml	99
10) 1,3-Dichlorobenzene	4.656	146	1473615	71.09	ug/ml	100
11) 1,4-Dichlorobenzene	4.721	146	1617119	72.72	ug/ml	100
12) Benzyl Alcohol	4.865	108	879576	68.99	ug/ml	100
13) 1,2-Dichlorobenzene	4.849	146	1510263	72.40	ug/ml	99
14) 2-Methylphenol	4.967	108	1156004	69.91	ug/ml	90
15) bis(2-chloroisopropyl)...	4.950	45	1922261	65.64	ug/ml#	71
16) 4-Methylphenol	5.116	108	1223693	69.95	ug/ml	99
17) m+p-Cresols	5.116	108	1223693	69.95	ug/ml	99
18) n-Nitroso-di-n-propyla...	5.095	70	1064426	67.08	ug/ml	99
19) Hexachloroethane	5.138	117	587981	72.47	ug/ml	99
22) Nitrobenzene	5.229	77	1431924	73.42	ug/ml	99
23) Isophorone	5.464	82	2448489	68.37	ug/ml	99
24) 2-Nitrophenol	5.523	139	668944	74.60	ug/ml	99
25) 2,4-Dimethylphenol	5.608	122	1107499	74.68	ug/ml	98
26) bis(2-Chloroethoxy)met...	5.667	93	1406175	71.25	ug/ml	100
27) Benzoic Acid	5.844	105	763377m	103.65	ug/ml	
28) 2,4-Dichlorophenol	5.801	162	1011561	77.55	ug/ml	99
29) 1,2,4-Trichlorobenzene	5.854	180	1172336	74.69	ug/ml	100
30) Naphthalene	5.940	128	3842215	74.50	ug/ml	100
31) 4-Chloroaniline	6.010	127	1396854	73.48	ug/ml	98
32) Hexachlorobutadiene	6.079	225	737545	74.84	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13784.D
Acq On : 13 Oct 2009 11:00 am
Operator : sheilac
Sample : cc615-75
Misc : op12949,Ej633,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 13 12:20:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.641	107	1108887	75.27 ug/ml	99
34) 2-Methylnaphthalene	6.780	142	2327723	73.88 ug/ml	100
35) 1-Methylnaphthalene	6.913	142	2425570	73.50 ug/ml	99
37) Hexachlorocyclopentadiene	7.004	237	339236	65.41 ug/ml	97
38) 2,4,6-Trichlorophenol	7.208	196	653677	71.02 ug/ml	100
39) 2,4,5-Trichlorophenol	7.282	196	715219	63.70 ug/ml	100
41) 2-Chloronaphthalene	7.475	162	2168765	70.37 ug/ml	99
42) 2-Nitroaniline	7.673	65	722702	69.75 ug/ml	100
43) Dimethylphthalate	8.010	163	2468259	66.64 ug/ml	100
44) Acenaphthylene	8.138	152	3579681	68.54 ug/ml	100
45) 2,6-Dinitrotoluene	8.090	165	594618	68.23 ug/ml#	85
46) 3-Nitroaniline	8.379	138	613866	74.84 ug/ml	97
47) Acenaphthene	8.443	154	2167061	70.62 ug/ml	99
48) 2,4-Dinitrophenol	8.566	184	251151	78.79 ug/ml	96
49) 4-Nitrophenol	8.818	65	377039	73.96 ug/ml	95
50) Dibenzofuran	8.737	168	3088059	70.44 ug/ml	99
51) 2,4-Dinitrotoluene	8.791	165	715925	68.60 ug/ml	93
52) 2,3,4,6-Tetrachlorophenol	9.005	232	562710	67.17 ug/ml	100
53) Diethylphthalate	9.256	149	2714959	70.65 ug/ml	99
54) Fluorene	9.363	166	2792600	73.10 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.379	204	1383992	68.24 ug/ml	100
56) 4-Nitroaniline	9.524	138	450751	72.25 ug/ml	97
58) 1,2-Diphenylhydrazine	9.689	77	3051084	75.27 ug/ml	97
59) 4,6-Dinitro-2-methylph...	9.577	198	361425	67.49 ug/ml	90
60) Diphenylamine	9.647	169	2138143	71.68 ug/ml	99
61) n-Nitrosodiphenylamine	9.647	169	2138143	71.68 ug/ml	99
63) 4-Bromophenyl-phenylether	10.304	248	730834	72.63 ug/ml	99
64) Hexachlorobenzene	10.433	284	786826	71.76 ug/ml	97
65) Pentachlorophenol	10.855	266	297137	70.27 ug/ml	99
66) Phenanthrene	11.315	178	3334270	70.21 ug/ml	99
67) Anthracene	11.315	178	3329871	72.82 ug/ml	99
68) Carbazole	11.684	167	2742858	74.50 ug/ml	99
69) Di-n-butylphthalate	12.508	149	4289534	75.21 ug/ml	100
70) Fluoranthene	13.653	202	3295671	76.54 ug/ml	100
72) Benzidine	14.006	184	1536944	71.09 ug/ml#	100
73) Pyrene	14.113	202	3371828	53.31 ug/ml	100
75) Butylbenzylphthalate	15.621	149	1602840	56.91 ug/ml	99
76) Benzo(a)anthracene	16.664	228	3401661	67.37 ug/ml	100
77) 3,3'-Dichlorobenzidine	16.675	252	1196353	96.67 ug/ml	99
78) Chrysene	16.750	228	2690906	63.22 ug/ml	99
79) bis(2-Ethylhexyl)phtha...	16.899	149	2211134	58.42 ug/ml	100
81) Di-n-octylphthalate	18.188	149	3386388	74.32 ug/ml#	100
82) Benzo(b)fluoranthene	18.798	252	2259597m	71.86 ug/ml	
83) Benzo(k)fluoranthene	18.857	252	2118042	73.75 ug/ml	99
84) Benzo(a)pyrene	19.381	252	1946048	72.49 ug/ml#	11
85) Indeno(1,2,3-cd)pyrene	21.553	276	1359343	60.05 ug/ml	96
86) Dibenz(a,h)anthracene	21.579	278	1184034	63.02 ug/ml	97
87) Benzo(g,h,i)perylene	22.130	276	908615	53.13 ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13784.D
Acq On : 13 Oct 2009 11:00 am
Operator : sheilac
Sample : cc615-75
Misc : op12949,Ej633,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 13 12:20:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

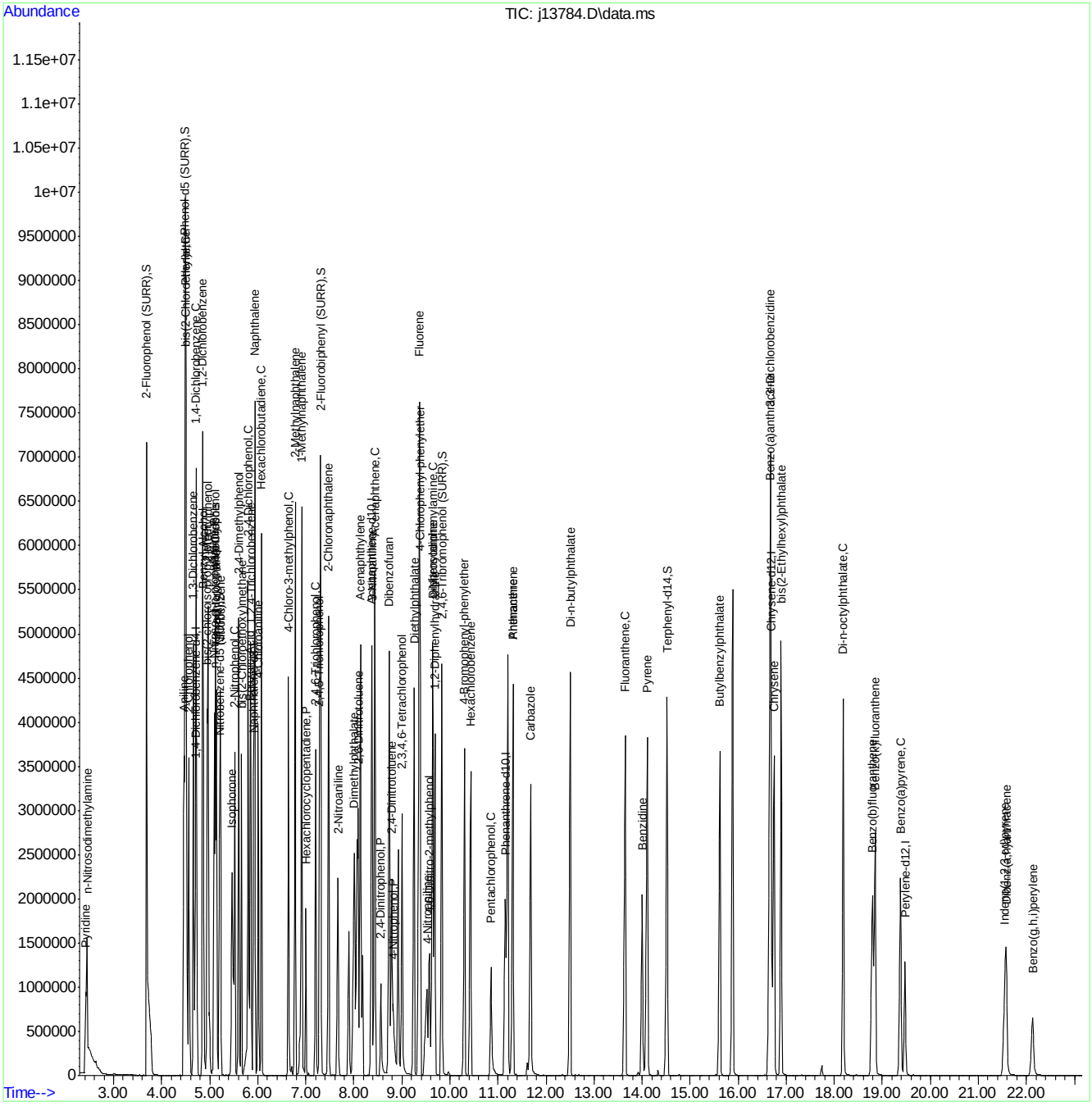
8.6.32

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13784.D
Acq On : 13 Oct 2009 11:00 am
Operator : sheilac
Sample : cc615-75
Misc : op12949,Ej633,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

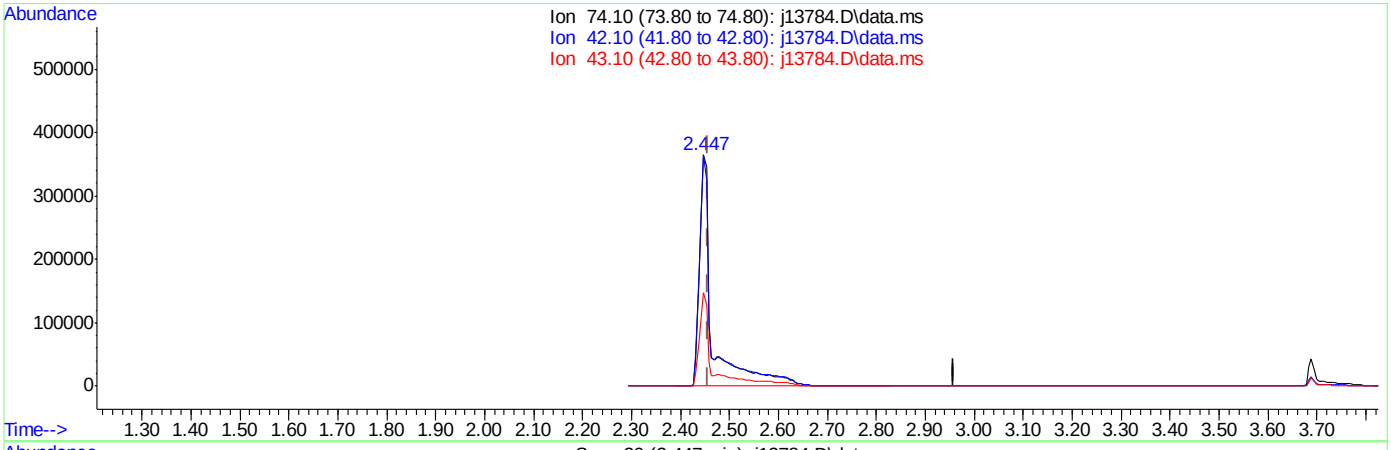
Quant Time: Oct 13 12:20:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration

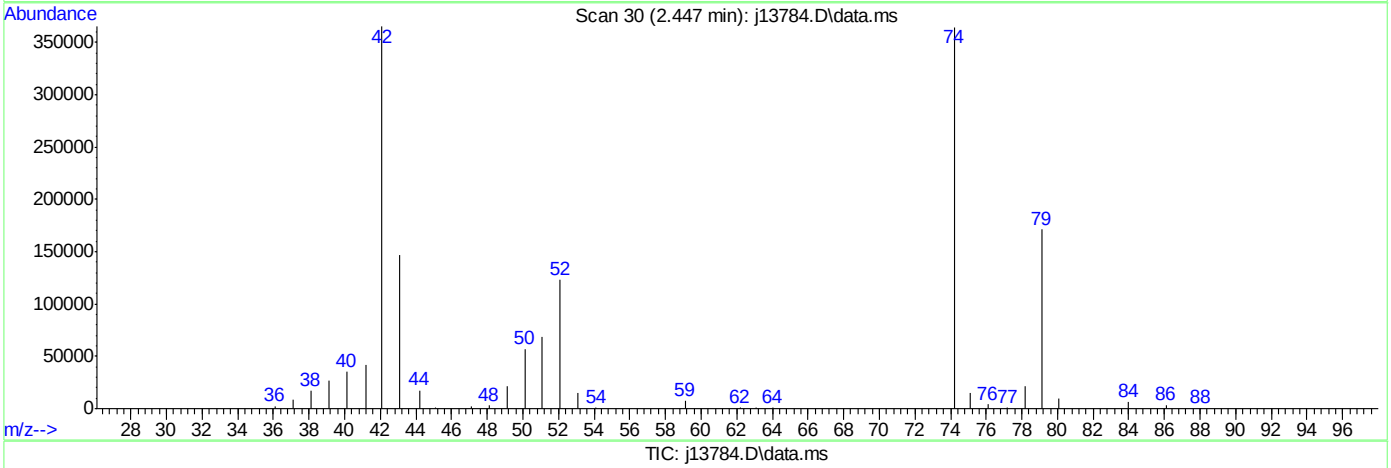


Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13784.D
Acq On    : 13 Oct 2009  11:00 am
Operator  : sheilac
Sample    : cc615-75
Misc      : op12949,Ej633,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Oct 13 12:20:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration
```





TIC: j13784.D\data.ms

(2) n-Nitrosodimethylamine

2.447min (-0.011) 72.81ug/ml m

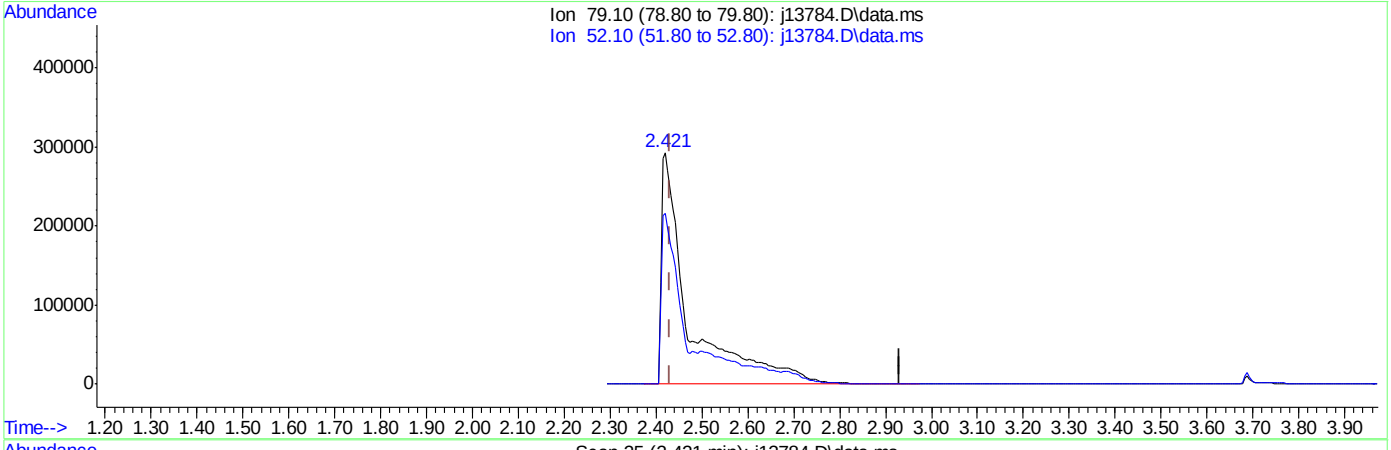
response 680102

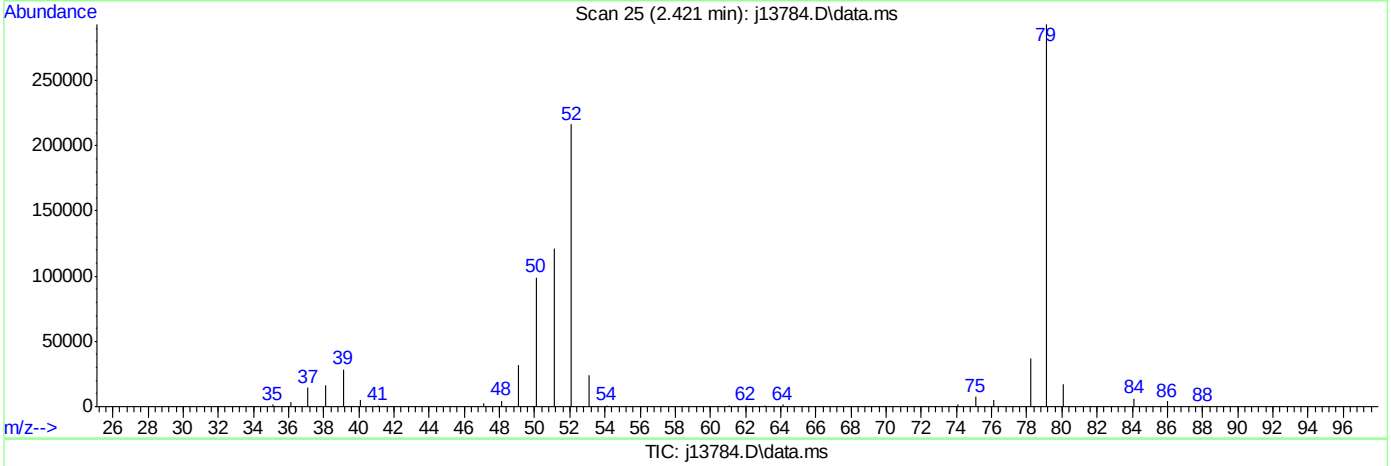
Ion	Exp%	Act%
74.10	100	100
42.10	100.50	64.32#
43.10	40.10	25.63
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13784.D
Acq On    : 13 Oct 2009  11:00 am
Operator  : sheilac
Sample    : cc615-75
Misc      : op12949,Ej633,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Oct 13 12:20:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration
```





(3) Pyridine

2.421min (-0.011) 75.09ug/ml m

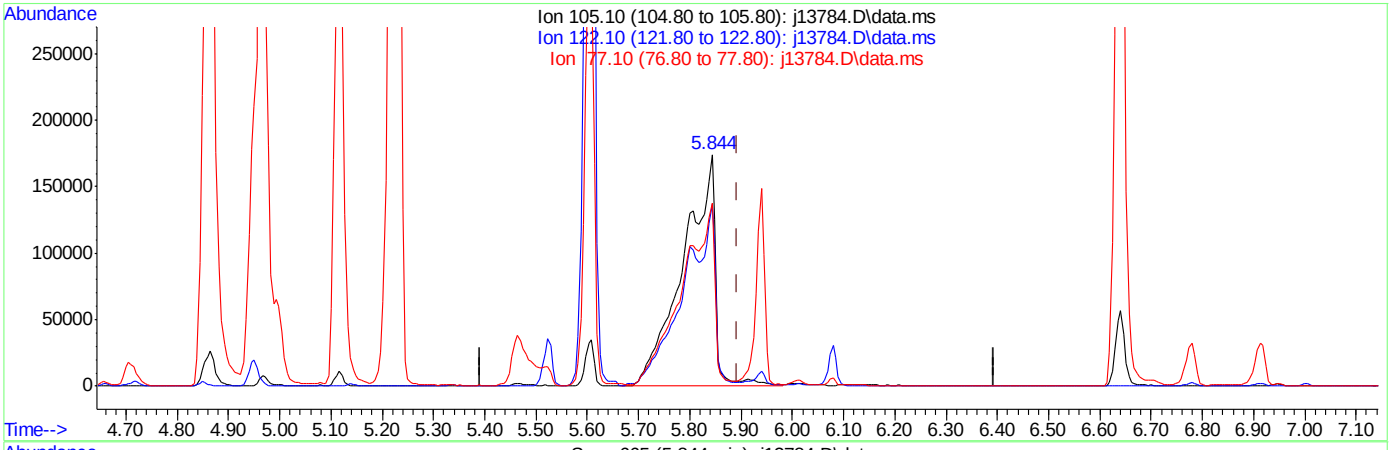
response 1237716

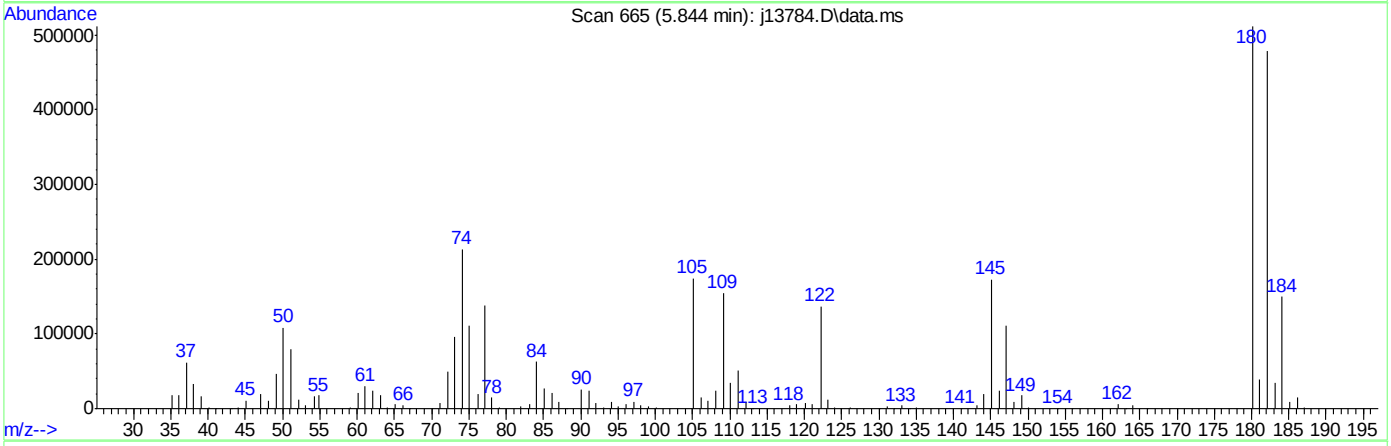
Ion	Exp%	Act%
79.10	100	100
52.10	72.60	42.75#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13784.D
Acq On    : 13 Oct 2009  11:00 am
Operator  : sheilac
Sample    : cc615-75
Misc      : op12949,Ej633,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Oct 13 12:20:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration
```





(27) Benzoic Acid

5.844min (-0.049) 103.65ug/ml m

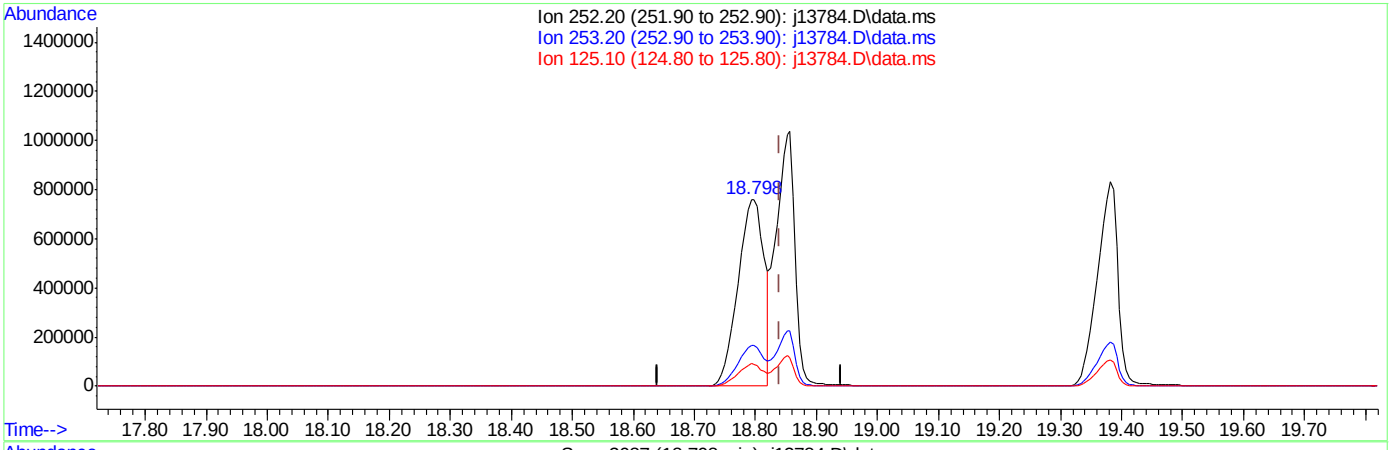
response 763377

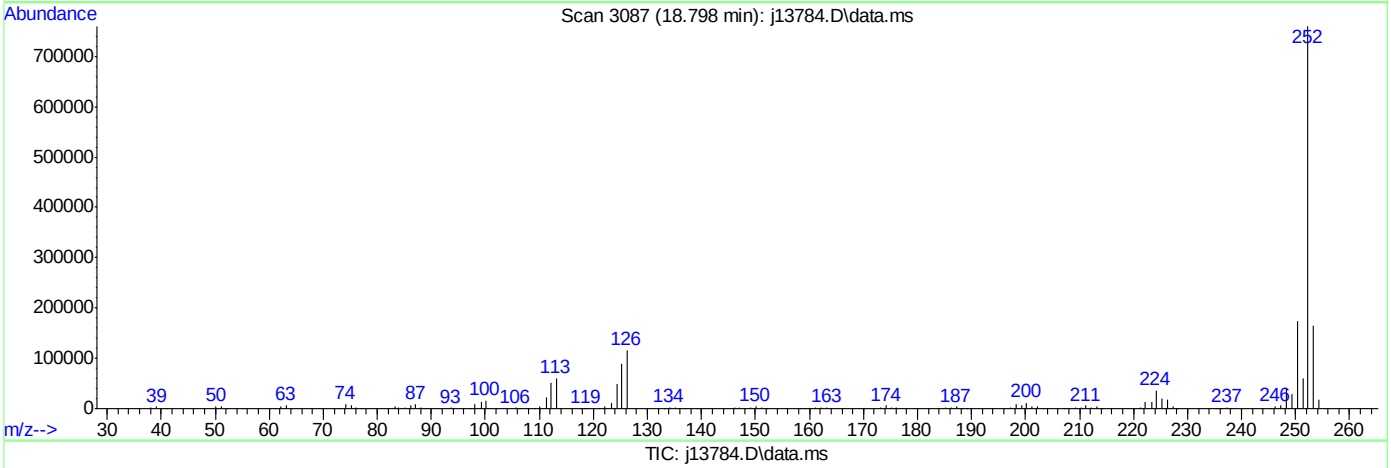
Ion	Exp%	Act%
105.10	100	100
122.10	75.20	20.93#
77.10	81.90	22.58#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej633\
Data File : j13784.D
Acq On    : 13 Oct 2009  11:00 am
Operator  : sheilac
Sample    : cc615-75
Misc      : op12949,Ej633,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Oct 13 12:20:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Fri Oct 09 16:33:16 2009
Response via : Initial Calibration
```





TIC: j13784.D\data.ms

(82) Benzo(b)fluoranthene

18.798min (-0.043) 71.86ug/ml m

response 2259597

Ion	Exp%	Act%
252.20	100	100
253.20	22.00	20.01
125.10	11.50	11.37
0.00	0.00	0.00

ACCUTEST Laboratories

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1918

Date: 10/21/2009 P.1 of 2

Analyst Signature: Sheila Chang

Standard Data

Ref #	Description
1	MS799
2	MS8240-5
3	-4
4	-1
5	-2
6	-6
7	-7

Standard Data

Ref #	Description
8	MS794
9	IC-MS835A

Columns: RTX,5ml

SW-846/EPA Method 8270SIM PAH

Initial Cal. Method H102195Pim

Calibration Date: 10/21/09

Injection Volume: 1ul

Solvent ID #: ep091012B3

Solvent: DCM

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	H35512	1	dfbpp	dfbpp				✓	10-48Am	Sc
2	13	2	ICI1918-2.5	HSIMBSPP				✓		
3	14	3	ICI1918-1					✓		
4	15	4	-0.1					✓		
5	16	5	-0.2					✓		
6	17	6	-5					✓		
7	18	7	-10					✓		
8	19	8	ICV1918-2.5					✓		
9	20	9	op13270-mb		W	13270	1	✓	use 8270SC extract 5ul x10	
	21	10	-bs				1	✓		
	22	11	-bsd				1	✓		
	23	12	T39287-1		W	13269	1	✓		
	24	13	T39314-1				1	✓		
	25	14	T39314-3				1	✓	acenaphthene ↑	
	26	15	-4				1	✓	OK	
	27	16	T39314-6,10x				10	✓	acenaphthene 5.52	
	28	17	-3,4x				4	✓	acenaphthene 5.43	
	29	18	op13269-ms				1	✓	T39314-2ms	
	30	19	-msd				1	✓		
	31	20	T39289-1		W	13270	1	✓	IS OK, surr deuterated ↑	no need for sim

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1918

Date: 10/21/2009 P. 2 of 2

Analyst Signature: Sheila Cheng

Standard Data	
Ref #	Description
9	IS-MS8315A

Standard Data	
Ref #	Description

Columns: See page 85

SW-846/EPA Method

Initial Cal. Method

Calibration Date:

Injection Volume:

Solvent ID #: NA

Solvent: NA

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
9	H35532	21	T39289-2	HSIMBSPP	W	13270	1	✓	OK	SC
	33	22	-3				1	✓	OK	
	34	23	-4				1	✓		
	35	24	T39423-1				1	✓	9=33 pm IS↓, RRm EH1919 OK, DNR	
	36	25	-2				1	•	10=02 pm IS↓ Sensitivity↑ NO, DNR	
	37	26	-3				1	•	10=31 pm IS↓ SC OK	
	38	27	-4				1	X	11=00 pm outside tune time	
	39	28	-5				1			
	40	29	-6				1			
	41	30	-7				1			

SC 10/21/2009

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1919

Date: 10/22/2009 P.1 of 2

Analyst Signature: Shirley Cheng

Standard Data

Ref #	Description
1	MS799
2	MS840-5
3	-4
4	-3
5	-2
6	-7
7	-6

SC 10/22/09

Standard Data

Ref #	Description
8	~~MS799~~ 840-J
9	MS 794 SC 10/22/09
10	IS-MS835A

Columns: RTX-5Sil

SW-846/EPA Method 8270 SIM PAH

Initial Cal. Method H102295P.m

Calibration Date: 10/22/09

Injection Volume: 1 ul

Solvent ID #: OP D91012B3

Solvent: DCM

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	H35542	1	dfOPP	dfOPP				X	PCP tailing 75 cut more column	SC
1	43	1	↓	↓				✓	jl=03 Am	
2	44	2	CC1918-2.5	HS1MBSPP				X		
3	45	3	TC1919-1 SC 10/22/09					✓		
4	46	4	-a1					✓		
5	47	5	-a2					✓		
6	48	6	-b0					✓		
7	49	7	↓ -5					✓		
8	50	8	TCW1919-2.5					✓		
9	51	9	TCW1919-2.5					✓		
10	52	10	OP13271-MB		W	13271	1	✓	use SC705L extract 5a x10	
	53	11	-bs				1	✓	1/10	
	54	12	↓ -bsd				1	✓	1/10	
	55	13	T39423-1				1	✓		
	56	14	-2				1	✓		
	57	15	-3				1	✓		
	58	16	-4				1	✓		
	59	17	-5				1	✓		
	60	18	-6				1	✓		
↓	↓	61	19 ↓ -7	↓	↓	↓	1	✓		✓

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1919

Date: 10/22/2009 P. 2 of 2

Analyst Signature: Sheila Clark

Standard Data

Ref #	Description
10	IS - MS8357A

Standard Data

Ref #	Description

Columns: All - page 87

SW-846/EPA Method

Initial Cal. Method

Calibration Date:

Injection Volume:

Solvent ID #:

Solvent:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
10	H35562	20	T39513-1	HSIMBSPP	W	13270	1	✓		SC
	63	21	-2				1	✓	acenaph, fluorene, phenanthrene, fluoranthene, pyr. ↑ (44,47)	
	64	22	-3				1	✓	acenaphthene 27,4, naph ↑	
	65	23	-6				1	✓	IS6↓ PRX1, ~~PRX4 for fluoranthene~~ DKR SC 10/22/09	
	66	24	-4				1	✓	naph, acenaphthene, 10:27pm	
	67	25	T39646-6		W	13271	1	-	IS out, PRX4 10:49pm	
	68	26	-7				1	X	11:18 pm, autoclave time time for screening	
	69	27	-8				1			
	70	28	-9				1			
	71	29	-10				1			
	72	30	-11				1			
	73	31	-1,4X				4			
	74	32	-2,10X				10			
	75	33	-3,10X				10			
	76	34	-4,10X				10			
	77	35	-5,10X				10			
									SC 10/23/09	

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ615

Date: 9/23/2009

Analyst Signature: Sheila Cheng

Standard Data

Ref #	Description
1	MS799
2	MS784-4B
3	↓ -5A
4	MS784-2A
5	-8A
6	-3A
7	↓ -6

Standard Data

Ref #	Description
8	MS784-7
9	MS784-4C
10	↓ -5B
11	MS786

Columns: RXi5Sil

SW-846/EPA Method 8270C/625

Initial Cal. Method EJ615 ms

Calibration Date: 9/23/09

Injection Volume: 1 µl

Solvent ID #: NA

Solvent: NA

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	J13332	1	dfopp	dfopp				✓		SC
2	33	2	CC614-50	8270JRONS						
3	34	3	↓ -75							
4	35	4	IC615-5					✓		
5	36	5	-10					✓		
6	37	6	-25					✓		
7	38	7	-100					✓		
8	39	8	↓ -125					✓		
9	40	9	ICC615-50					✓		
10	41	10	IC615-75					✓		
11	42	11	ICV615-50	↓				✓		↓
									SC 9/23/2009	

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ629

Date: 10/08/2009

Analyst Signature: Sheila Cheng

Standard Data

Ref #	Description
1	MS799
2	MS784-4C
3	MS833-5
4	4
5	6
6	12
7	3

Standard Data

Ref #	Description
8	MS833-7
9	MS834
10	IS-MS835

Columns: RXI5SIL

SW-846/EPA Method 8270C/625 / Bzthiol+Resorc

Initial Cal. Method EJ615 MS / EJ629 BZN+R

Calibration Date: 9/23/2009 / 9/8/2009

Injection Volume: 1 µl

Solvent ID #: NA

Solvent: NA

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	J13687	1	dfopp	dfopp				✓		SC
2	88	2	cc615-50	8270JROHS				/		
3	89	3	icc625-50 (Bzthiol+Reso)					/		
4	90	4	ic625-40					/		
5	91	5	-75					/		
6	92	6	-5					/		
7	93	7	-25					/		
8	94	8	-100					/		
9	95	9	icv625-50					/		
10	96	10	op13205-wb		W	13205	1	/		
	97	11	-bs				1	/	Bzthiol Spike	
	98	12	-bsd				1	/		
	99	13	wb				1	/	Sim soil Test	
	700	14	op13205-bs				1	/	~~Bzthi~~ SC 10/8/09 8270 Spike	
	701	15	-bsd				1	/		

SC 10/08/09

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ632

Date: 10/12/09 P.1 of 2

Analyst Signature: Sheila Cheng

Standard Data

Ref #	Description
1	MS799
2	MS 784-5B
3	MS833-6
4	MS 833-5
5	IS-MS835

Standard Data

Ref #	Description

Columns: RXI5Sil

SW-846/EPA Method 8270/625 / Bethiol + Resorc.

Initial Cal. Method EJ615 MS / EJ629 BEN+RES

Calibration Date: 9/23/09 / 10/08/09

Injection Volume: 1 uL

Solvent ID #: OP090918A29

Solvent: DCM

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	J13751	1	dfopp	dfopp				✓	11:34 AM DNR	SC
2	52	2	CC615-75	8270 JROHS				✓		
3	53	3	CC629-75					X	Bethiol + Resorc	
4	54	4	CC629-50					✓		
1	55	5 1	dfopp	dfopp				✓	4:29 PM	
2	56	6 2	CC615-50	8270 J ROHS				✓	8270	
4	57	7 3	CC629-50					✓	Bethiol	
5	58	8 4	OP13232-MB		S	13232	1	X	IS5 DNR	
	59	9 5	-bs				1	✓		
	60	10 6	-MSD				1	✓		
	61	11 7	T39290-1,20X				20	✓	Chromf	
	62	12 8	T39315-1				1	X	IS x2, DNR Reprep + RR	
	63	13 9	OP13232-MS				1	✓		
	64	14 10	-MSD				1	✓		
	65	11	T39423-1		W	13230	1	✓	Tic too Resorcinol	
	66	12	-2				1	✓		
	67	13	-3				1	✓		
	68	14	-4				1	✓		
	69	15	-5				1	✓		
	70	16	-6				1	✓		

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ632

Date: 10/12/09 P. 2 of 2

Analyst Signature: Sheila Chang

Standard Data	
Ref #	Description
5	IS-1MS835

Standard Data	
Ref #	Description

Columns: See page 92

SW-846/EPA Method

Initial Cal. Method

Calibration Date:

Injection Volume:

Solvent ID #: NA

Solvent: NA

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor:

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
5	J13771	17	T39423-7	8270JPAN	W	13230	1	✓		SC
	72	18	T39396-1		S	13232	1	✓		
	73	19	-2				1	✓		
	74	20	-3				1	✓		
	75	21	-4				1	✓		
	76	22	-5				1	✓		
	77	23	T39315-1 T39289-1		S W	13232 13230	1 1	✓ ✓	3:30 Am	
	78	24	-2				1	✓		
	79	25	-3				1	✓	4:27 Am	
	80 81	26 27	-4				1	X	4:57 Am outside Tune time	
	82	28	OP13230-BS/BSD				1	X	5:26 Am	

SC 10/13/09

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

ACCUTEST.

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ633

Date: 10/13/09

Analyst Signature: Sheila Chang

Standard Data

Ref #	Description
1	MS799
2	MS 786-5B
3	MS833-5
4	IS-MS835

Standard Data

Ref #	Description

Columns: RXi5sil

SW-846/EPA Method 8270C/625 / Bethiol + Resorcinol

Initial Cal. Method EJ615MS / EJ629BEN + Res

Calibration Date: 9/29/09 / 10/08/09

Injection Volume: 1 µl

Solvent ID #: OP090918A29

Solvent: DCM

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP TGC012.

Signature of Supervisor: _____

Ref #	Data File	ALS#	Sample ID	Method	MTX	OP Batch	Dilution	Run OK	Comments	Initials
1	J13783	1	dfopp	dfopp				✓	10:48Am	SC
2	84	2	CC615-75	8270JRONS				✓		
3	85	3	CC629-50					✓	Bethiol + Resorc.	
4	86	4	OP13230-ms		W	13230	1	✓	Diethylphthalate 15,14 not target cpd	
	87	5	OP13100-MS 20X		S	13100	20	✓		
	88	6	↓ -msd 20X		↓	↓	20	✓		
	89	7	OP13230-bs		W	13230	1	✓	Bethiol	
	90	8	↓ -bsd				1	✓		
	91	9	OP13230-bs				1	✓	8270	
	92	10	↓ -bsd				1	✓		
	93	11	T39289-4				1	✓		
	94	12	T39573-8, 100X				100	•	bad emulsion, viscous	
	95	13	T39513-1				1	✓		
	96	14	-2				1	✓		
	97	15	-3				1	✓		
	98	16	-4				1	•✓	1 Naph, 1-MN, acenaphthene,	
	99	17	-6				1	✓	OK	
	800	18	-5, 40X				40	✓	RR x4	
	1	19	↓ -7, 40X				40	✓	bad RRx4, Naph OK, acenaphthene	
	2	20	-8, 10X				10	•		
	3	21	OP13230-ms				1	✓		
	4	22	↓ -msd				1	✓		
	5	23	T39573-4, 4X				4	✓	for naph. acenaphthene,	
	6	24	-5, 4X				4	•✓	2,4-Dimethyl, Naph. ↑	
	7	25	↓ -7, 4X		↓	↓	4	✓	Naph. ↑	
	8	26	T39305-1		W	13205	1	✓	10:46pm, ND	
↓	↓	27	PCM					✓	lot 094665 clean	↓

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

BNA LIQUID SAMPLE PREP REPORT

Date: 10/9/09 (CRA)

Method: EPA 3510C / 8270 SL

Batch#: OP13230 / OP13270 / 8270SLSIM

Analyst: MA / CRA 10/19/09 SL

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
MB	N/A	1000	6	<2 712	1.0ml	—	1.0	
BS/BSD						0.5ml		8270
BS/BSD						0.5ml		Resorcinol/Benzoic Acid
T39289-1	2	1000	7			—		
2								
3								
4								
T39423-1								
2								
3								
4								
5								
6								
7								
T39513-1	4	1000					1.0	
2	2							
3	2							
4	2							
5	2							Bad Emulsion
6								
7	2	970 MA 10/13/09						
~~8~~								~~T39305-1~~ Bad Emulsion
MS		500		<2 712	1.0	0.5	1.0	~~T39513-1~~ Bad E
MSD								T39513-1
BSD		1000			1.0	0.5		8270

MA 10/13/09

Surrogate ID: E2201 Conc: 100/50ppm Exp. Date: 3/18/2010 Bath Temp #1.: 42°C

Spike ID: MS090922A2 Conc: 100ug/ml Exp. Date: 7/2010 Bath Temp.#2: N/A

Bath Temp.#3: N/A

Methylene Chloride ID #: OP090928AK Dried Sodium Sulfate ID#: 23 OP-30-3

1:1 Sulfuric Acid ID # 23-OP-30-2 10 N Sodium Hydroxide # OP090901A

Comments: BSD 1000 <2 712 1.0 0.5 1.0

Relinquished By: Margarita Acosta Date: 10/12/2009

Accepted By: Sherita Clark Date: 10/12/2009

P.76

Form: OP006, Rev. 02/06/06, QAO

BNA LIQUID SAMPLE PREP REPORT

Date: 10/9/09 (CRA)

Method: EPA 3510C / 8270 SL

Batch#: OP13230 / OP13270 / 8270SLSIM

Analyst: MA / CRA 10/19/09 SL

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
MB	N/A	1000	6	<2 712	1.0ml	—	1.0	
BS/BSD	1	1	1	1	1	0.5ml	1	8270
BS/BSD	1	1	1	1	1	0.5ml	1	Resorcinol/Benzoic Acid
T39289-1	2	1000	7			—		
2	1	1	1			1	1	
3	1							
4	2							
T39423-1	1							
2	2							
3	1							
4	1							
5	1							
6	1							
7	2							
T39513-1	4	1000					1.0	
2	2							
3	2							
4	2							
5	2							Bad Emulsion
6	1							
7	2	970 MA 10/13/09						
~~8~~ MA 10/13/09	1	1	1	1	1	1	1	~~T39305-1~~ Bad Emulsion
MS	1	500		2712	1.0	0.5	1.0	~~T39513-1~~ Bad E
MSD	1	1		1	1	1	1	1 T39513-1
BSD		1000			1.0	0.5		8270

Surrogate ID: E2201 Conc: 100/50ppm Exp. Date: 3/18/2010 Bath Temp #1.: 42°C

Spike ID: MS090922A2 Conc: 100ug/ml Exp. Date: 7/2010 Bath Temp.#2: N/A

Bath Temp.#3: N/A

Methylene Chloride ID #: OP090928AK Dried Sodium Sulfate ID#: 23 OP-30-3

1:1 Sulfuric Acid ID # 23-OP-30-2 10 N Sodium Hydroxide # OP090901A

Comments: BSD 1000 2712 1.0 0.5 1.0

Relinquished By: Margarita Acosta Date: 10/12/2009

Accepted By: Sherita Clark Date: 10/12/2009

P.76

Form: OP006, Rev. 02/06/06, QAO

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T39423
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP7017/GN18368	0.010	0.0	mg/l	0.2	0.198	99.0	90-110%
Cyanide	GP7018/GN18369	0.010	0.0	mg/l	0.2	0.198	99.0	90-110%

Associated Samples:
Batch GP7017: T39423-1, T39423-2
Batch GP7018: T39423-3, T39423-4, T39423-5, T39423-6, T39423-7
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T39423
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP7017/GN18368	T39314-2	mg/l	0.0050 B	0.0050	0.0	0-20%
Cyanide	GP7018/GN18369	T39513-1	mg/l	0.10	0.076	27.3*	0-20%

Associated Samples:
Batch GP7017: T39423-1, T39423-2
Batch GP7018: T39423-3, T39423-4, T39423-5, T39423-6, T39423-7
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T39423
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP7017/GN18368	T39314-2	mg/l	0.0050 B	0.2	0.19	92.5	90-110%
Cyanide	GP7018/GN18369	T39513-1	mg/l	0.10	0.2	0.24	70.0N	90-110%

Associated Samples:
Batch GP7017: T39423-1, T39423-2
Batch GP7018: T39423-3, T39423-4, T39423-5, T39423-6, T39423-7
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39423
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 101709W1CN.TXT Date Analyzed: 10/17/09 Methods: EPA 335.4
Analyst: CV Run ID: GN18368
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:23	GN18368-ICV1	1		
12:23	GN18368-ICB1	1		
12:25	GP7017-B1	1		
12:26	GP7017-MB1	1		
12:28	GP7017-S1	1		
12:28	GP7017-D1	1		
12:30	T39314-2	1		(sample used for QC only; not part of login T39423)
12:31	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:38	GN18368-CCV1	1		
12:38	GN18368-CCB1	1		
12:40	ZZZZZZ	1		
12:41	ZZZZZZ	1		
12:43	T39423-1	1		
12:43	T39423-2	1		
12:45	ZZZZZZ	1		
12:46	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:48	ZZZZZZ	1		
12:50	ZZZZZZ	1		
12:51	ZZZZZZ	1		
12:53	GN18368-CCV2	1		
12:53	GN18368-CCB2	1		
12:55	ZZZZZZ	1		
12:56	ZZZZZZ	1		
12:58	ZZZZZZ	1		
12:58	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:01	ZZZZZZ	1		
13:03	ZZZZZZ	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: T39423
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 101709W1CN.TXT Date Analyzed: 10/17/09 Methods: EPA 335.4
Run ID: GN18368 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN18368-ICV1	Cyanide	0.20	0.010	0.0040	.2	100.0	90-110
GN18368-ICB1	Cyanide	0.0040 U	0.010	0.0040			
GN18368-CCV1	Cyanide	0.29	0.010	0.0040	.3	96.7	90-110
GN18368-CCB1	Cyanide	0.0048	0.010	0.0040			
GN18368-CCV2	Cyanide	0.29	0.010	0.0040	.3	96.7	90-110
GN18368-CCB2	Cyanide	0.0040 U	0.010	0.0040			

(!) Outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39423
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 101709W2CN.TXT Date Analyzed: 10/17/09 Methods: EPA 335.4
Analyst: CV Run ID: GN18369
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:23	GN18369-ICV1	1		
12:23	GN18369-ICB1	1		
12:25	GP7018-B1	1		
12:26	GP7018-MB1	1		
12:28	ZZZZZZ	1		
12:28	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:31	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:33	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:36	ZZZZZZ	1		
12:38	GN18369-CCV1	1		
12:38	GN18369-CCB1	1		
12:40	ZZZZZZ	1		
12:41	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:43	ZZZZZZ	1		
12:45	GP7018-S1	1		
12:46	GP7018-D1	1		
12:48	T39513-1	1		(sample used for QC only; not part of login T39423)
12:48	T39423-3	1		
12:50	T39423-4	1		
12:51	T39423-5	1		
12:53	GN18369-CCV2	1		
12:53	GN18369-CCB2	1		
12:55	T39423-6	1		
12:56	T39423-7	1		
12:58	ZZZZZZ	1		
12:58	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:01	GN18369-CCV3	1		
13:03	GN18369-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: T39423
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 101709W2CN.TXT Date Analyzed: 10/17/09 Methods: EPA 335.4
Run ID: GN18369 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN18369-ICV1	Cyanide	0.20	0.010	0.0040	.2	100.0	90-110
GN18369-ICB1	Cyanide	0.0040 U	0.010	0.0040			
GN18369-CCV1	Cyanide	0.29	0.010	0.0040	.3	96.7	90-110
GN18369-CCB1	Cyanide	0.0048	0.010	0.0040			
GN18369-CCV2	Cyanide	0.29	0.010	0.0040	.3	96.7	90-110
GN18369-CCB2	Cyanide	0.0040 U	0.010	0.0040			
GN18369-CCV3	Cyanide	0.30	0.010	0.0040	.3	100.0	90-110
GN18369-CCB3	Cyanide	0.0040 U	0.010	0.0040			

(!) Outside of QC limits

General Chemistry

Raw Data

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Method : WCYA Unit [mg/L] - EPA 335.4/9012 Cyanide 0.01 to 0.50 mg/L

Smp#/[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
R-4	RBL	0.0000	0.0076	0.00		12:18:30 PM
R-4	RBL	0.0000	0.0082	0.00		12:18:55 PM
R-4	RBL	0.0000	0.0086	0.00		12:21:00 PM
R-4	RBL	0.0000	0.0083	0.00		12:21:24 PM
1	ICV	0.1958	0.2303	0.00		12:23:29 PM
2	ICB	-0.0009	-0.0009	0.00	INV,><,LL	12:23:54 PM
3	BSP GP 7017/7018 - B1	0.1976	0.2325	0.00		12:25:59 PM
4	MB GP 7017/7018 - MB1	-0.0011	-0.0012	0.00	INV,><,LL	12:26:24 PM
5	T39314-2S1 GP 7017 - S1	0.1894	0.2228	0.00		12:28:28 PM
6	T39314-2D1 GP 7017 - D1	0.0050	0.0061	0.00		12:28:53 PM
7	T39314-2	0.0050	0.0061	0.00		12:30:58 PM
8	T39596-1	0.0013	0.0017	0.00	><	12:31:23 PM
9	T39596-2	0.0014	0.0019	0.00	><	12:33:28 PM
10	T39314-1	0.0040	0.0049	0.00		12:33:53 PM
11	T39314-3	0.0145	0.0173	0.00		12:35:57 PM
12	T39314-4	0.1251	0.1472	0.00		12:36:22 PM
13	CCV	0.2918	0.3432	0.00		12:38:27 PM
14	CCB	0.0048	0.0058	0.00	EPL	12:38:52 PM
15	T39314-5	0.0170	0.0202	0.00		12:40:57 PM
16	T39314-6	0.0849	0.1000	0.00		12:41:21 PM
17	T39423-1	0.0245	0.0290	0.00		12:43:26 PM
18	T39423-2	0.0529	0.0624	0.00		12:43:51 PM
19	T39513-1S1 GP 7018-S1	0.2440	0.2870	0.00		12:45:56 PM
20	T39513-1D1 GP 7018-D1	0.0755	0.0890	0.00		12:46:21 PM
21	T39513-1	0.1002	0.1180	0.00		12:48:25 PM
22	T39423-3	0.1114	0.1311	0.00		12:48:50 PM
23	T39423-4	0.0628	0.0740	0.00		12:50:55 PM
24	T39423-5	0.0068	0.0082	0.00		12:51:20 PM
25	CCV1	0.2915	0.3428	0.00		12:53:25 PM
26	CCB1	0.0002	0.0004	0.00	><	12:53:50 PM
27	T39423-6	0.0214	0.0254	0.00		12:55:54 PM
28	T39423-7	0.0390	0.0460	0.00		12:56:19 PM
29	T39513-2	0.0150	0.0179	0.00		12:58:24 PM
30	T39513-3	0.0230	0.0272	0.00		12:58:49 PM
31	T39513-4	0.0592	0.0698	0.00		1:00:54 PM
32	CCV2	0.2972	0.3495	0.00		1:01:19 PM

Report Date :10/17/2009 **Run Date :10/17/2009** **Operator : WESTCO** **Plan # :20091017002**

Plan Description : 101709w1cn CV 10/17/09

10.1.1 10

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Method : WCYA Unit [mg/L] - EPA 335.4/9012 Cyanide 0.01 to 0.50 mg/L

Smp#/[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
33	**CCB2**	**-0.0005**	**-0.0005**	**0.00**	**INV,><,LL**	**1:03:24 PM**

10.1.1

10

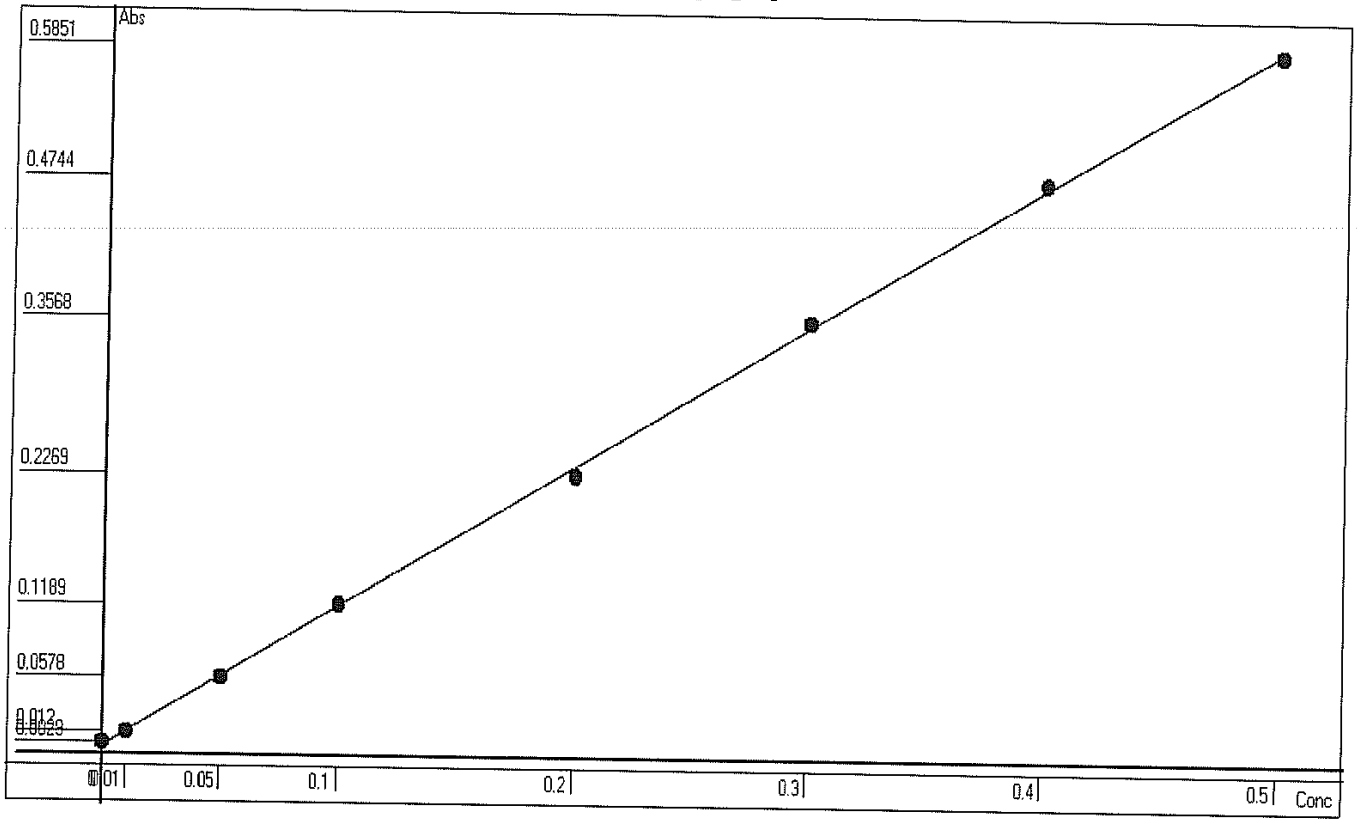
Report Date :10/17/2009 **Run Date :10/17/2009** **Operator : WESTCO** **Plan # :20091017002**

Plan Description : 101709w1cn CV 10/17/09

Calibrant Report - WCYA -

Calib Lot #:090408 Exp Date:9/30/2010 User:Westco Scientific

Plan # : 20091017002 Description : [101709w1cn] Unit [mg/L]



Point	OD	Conc	Recalc Conc	% Error
1	0.0029	0	0.0024	0
2	0.0120	0.01	0.0101	1
3	0.0578	0.05	0.0491	-2
4	0.1189	0.1	0.1011	1
5	0.2269	0.2	0.1929	-4
6	0.3568	0.3	0.3035	1
7	0.4744	0.4	0.4035	1
8	0.5851	0.5	0.4977	0

Conc= +0.8508*Abso -0.0001 R^2=0.9996

RBL

Report Date 10/17/2009 Run Date 6/8/2009

ad 10/17/09

10.1.1

10

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Sample #	Sample ID	Position	Dil	WCYA
1	ICV	Rack A1 - 1	1/1	X
2	ICB	Rack A1 - 2	1/1	X
3	BSP	Rack A1 - 3	1/1	X
4	MB	Rack A1 - 4	1/1	X
5	T39314-2S1	Rack A1 - 5	1/1	X
6	T39314-2D1	Rack A1 - 6	1/1	X
7	T39314-2	Rack A1 - 7	1/1	X
8	T39596-1	Rack A1 - 8	1/1	X
9	T39596-2	Rack A1 - 9	1/1	X
10	T39314-1	Rack A1 - 10	1/1	X
11	T39314-3	Rack A1 - 11	1/1	X
12	T39314-4	Rack A1 - 12	1/1	X
13	CCV	Rack A1 - 13	1/1	X
14	CCB	Rack A1 - 14	1/1	X
15	T39314-5	Rack A1 - 15	1/1	X
16	T39314-6	Rack A1 - 16	1/1	X
17	T39423-1	Rack B1 - 1	1/1	X
18	T39423-2	Rack B1 - 2	1/1	X
19	T39513-1S1	Rack B1 - 3	1/1	X
20	T39513-1D1	Rack B1 - 4	1/1	X
21	T39513-1	Rack B1 - 5	1/1	X
22	T39423-3	Rack B1 - 6	1/1	X
23	T39423-4	Rack B1 - 7	1/1	X
24	T39423-5	Rack B1 - 8	1/1	X
25	CCV1	Rack B1 - 9	1/1	X
26	CCB1	Rack B1 - 10	1/1	X
27	T39423-6	Rack B1 - 11	1/1	X
28	T39423-7	Rack B1 - 12	1/1	X
29	T39513-2	Rack B1 - 13	1/1	X
30	T39513-3	Rack B1 - 14	1/1	X
31	T39513-4	Rack B1 - 15	1/1	X
32	CCV2	Rack B1 - 16	1/1	X
33	CCB2	Rack C1 - 1	1/1	X

Report Date :10/17/2009 **Operator : WESTCO** **Plan # :20091017002**

Plan Description : 101709w1cn CW 10/17/09

10.1.1 10

ACCUTEST

Westco Analyzer Run Log

Date: 10/17/09
Time: 1225
Analyst: CV

Sources	
Primary Standard:	GN090108E
Secondary Standard:	GN090114A

Reagent	Reagent ID
Asc. Acid, Mixed Acid	2UTC-6S-3
Color Reagent	2UTC-7-2
Chromotropic I	2UTC-7-3

CV

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
ICV	2UTC-8-1				
ICB					
RST				ICB, refer to dist. of titration log	
MB					
T39914-2S1	5			Agl, refer to distillation log	
-2D1	5				
-2	5				
T39576-1	10				
-2	10				
T39914-1	3				
-3	3				
-4	3				
CCV	2UTC-8-2				
CCB					
T39914-5	3				
-6	3				
T39423-1	3				
-2	3				
T39513-1S1	9			Agl, refer to dist. of titration log	
-1D1	9				
-1	9				
T39423-3	3				
-4	3				
-5	3				
CCV	2UTC-8-2				
CCB					

P.39

Form: GN059 Rev. 0 8/28/08 QAO

10.1.1 10

ACCUTEST

Westco Analyzer Run Log

Date: 10/17/09
Time: 1205
Analyst: CV

Sources	
Primary Standard:	GN09040SE
Secondary Standard:	GN09011A

Reagent	Reagent ID
Amd. Phen Monitoring	217C-65-3
Cuam Reagent	217C-7-C
Chloramine T	217C-7-3

CN

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
T39429-4	3				
↓ -7	3				
T39519-2	3				
-3	3				
↓ -4	3				
CCV	217C-8-2				
CCB					
					CV 10/17/09
			P.40		

Form: GN059 Rev. 0 8/28/08 QAO

ACCUTEST

CYANIDE DIGESTION LOG

DATE	ANALYST	MATRIX/ METHOD	SAMPLE ID	SAMPLE WT/ VOLUME		REMARKS
10/16/09	CW	9014/9012	Blks	0.5	1	
1550			LCSs	0.5	2	120 mL 247C-6-1
			T39290-101	0.5075	3	120 mL 247C-6-1 DOI# 1
			-1D1	0.5024	4	1
			-1	0.5070	5	1
			Blks	6 mL	6	
			LCSs		7	247C-7-1
			T39314-2D1		8	120 mL 247C-6-1 >12 Neg 5
			-2D1		9	>12 Neg 5
			-2		10	>12 Neg 5
			T39596-1		11	>12 Neg 10
			-2		12	>12 Neg 10
			T39314-1		13	>12 Pos 3
			-3		14	>12 Neg 3
			-4		15	>12 Neg 3
			-5		16	>12 Pos 3
			-6		17	>12 Neg 3
			T39423-1		18	>12 Neg 3
			-2		19	>12 Neg 3
			-3		20	>12 Neg 3
			-4		21	>12 Neg 3
			-5		22	>12 Neg 3
			-6		23	>12 Neg 3

Reagents for Distillation

Reagents for Analysis

Releasing Agent: 207C-65-3

0.95N NaOH: 217C-76-2

Sulfamic Acid GN090622A

Magnesium Carbonate GN050722A

Form: GN035-01
Rev. Date: 7/2/09

ACCUTEST

CYANIDE DIGESTION LOG

DATE	ANALYST	MATRIX/ METHOD	SAMPLE ID	SAMPLE WT/ VOLUME	REMARKS
10/16/09	EV	335.4 / 9012	T39423 - 7	6 mL 26	21TC Neg 3
					1ml 21TC-6-1
			T39513 - 151	25	>12 Neg 9
			- 1D1	26	>12 Neg 9
			- 1	27	>12 Neg 9
			- 2	28	>12 Neg 3
			- 3	29	>12 Neg 3
			- 4	30	>12 Neg 3
			Blk/Low	31	
			T39596 - 1 low	32	>12 Neg 10
			- 1 low Rep	33	>12 Neg 10
			- 2 low	34	>12 Neg 10
					EV 10/16/09

Reagents for Distillation | **Reagents for Analysis**

Releasing Agent: 21TC-65-2

0.95N NaOH: 21TC-76-2

Magnesium Sulfate GN09 0625A
Calcium Hypochlorite 21TC-55-2
Lead Acetate GN09 0216A

Form: GN035-01
Rev. Date: 7/2/09

ACCUTEST

Inorganic Data Review Checklist

Batch ID: GN18368 & GN16369

1. **Following samples are reported in this package:**

Sample ID		deliv. Type Comments
T39314-1	T39423-3	
-2	-4	
-3	-5	
-4	-6	
-5	-7	
-6	T39513-1	
T39596-1	-2	
-2	-3	
T39423-1	-4	
-2		

	Checked by 1st review	2nd review
2. **Sample run log- instrument log + prep log** (Check all standard lot, amount used, sample preparation and dilution information, date and signature)	[✓]	[ ]
3. **Instrument performance report(s) (ICB, BSP, CAL. STDS)** (Check method criteria and frequency)	[✓]	[ ]
4. **Calibration (ICV/CCV/CRDL/ICs) summary** (Check a-method criteria; b -frequency; c-printout)	[✓]	[ ]
5. **Blank** (Check contamination (must be below MDL) and frequency)	[✓]	[ ]
6. **Blank Spike/LCS** (Check recovery and footnote and frequency)	[✓]	[ ]
7. **MS/MSD/DUP** (Check recovery and footnote and frequency)	[✓]	[ ]
8. **Holding Time** (Check footnotes for outside HT and makes sure notify Manager)	[✓]	[ ]
9. **Analytical Comments** (Check for any discrepencies)	[ ]	[ ]

1ST Reviewer;(sign/Date) W 10/19/09

2nd Reviewer (Supervisor)(sign/Date)

Form: QA002, 2/08/01

10.1.1 10

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Method : WCYA Unit [mg/L] - EPA 335.4/9012 Cyanide 0.01 to 0.50 mg/L

Smp#/[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
R-4	RBL	0.0000	0.0076	0.00		12:18:30 PM
R-4	RBL	0.0000	0.0082	0.00		12:18:55 PM
R-4	RBL	0.0000	0.0086	0.00		12:21:00 PM
R-4	RBL	0.0000	0.0083	0.00		12:21:24 PM
1	ICV	0.1958	0.2303	0.00		12:23:29 PM
2	ICB	-0.0009	-0.0009	0.00	INV,><,LL	12:23:54 PM
3	BSP GP 7017/7018 - B1	0.1976	0.2325	0.00		12:25:59 PM
4	MB GP 7017/7018 - MB1	-0.0011	-0.0012	0.00	INV,><,LL	12:26:24 PM
5	T39314-2S1 GP 7017 - S1	0.1894	0.2228	0.00		12:28:28 PM
6	T39314-2D1 GP 7017 - D1	0.0050	0.0061	0.00		12:28:53 PM
7	T39314-2	0.0050	0.0061	0.00		12:30:58 PM
8	T39596-1	0.0013	0.0017	0.00	><	12:31:23 PM
9	T39596-2	0.0014	0.0019	0.00	><	12:33:28 PM
10	T39314-1	0.0040	0.0049	0.00		12:33:53 PM
11	T39314-3	0.0145	0.0173	0.00		12:35:57 PM
12	T39314-4	0.1251	0.1472	0.00		12:36:22 PM
13	CCV	0.2918	0.3432	0.00		12:38:27 PM
14	CCB	0.0048	0.0058	0.00	EPL	12:38:52 PM
15	T39314-5	0.0170	0.0202	0.00		12:40:57 PM
16	T39314-6	0.0849	0.1000	0.00		12:41:21 PM
17	T39423-1	0.0245	0.0290	0.00		12:43:26 PM
18	T39423-2	0.0529	0.0624	0.00		12:43:51 PM
19	T39513-1S1 GP 7018-S1	0.2440	0.2870	0.00		12:45:56 PM
20	T39513-1D1 GP 7018-D1	0.0755	0.0890	0.00		12:46:21 PM
21	T39513-1	0.1002	0.1180	0.00		12:48:25 PM
22	T39423-3	0.1114	0.1311	0.00		12:48:50 PM
23	T39423-4	0.0628	0.0740	0.00		12:50:55 PM
24	T39423-5	0.0068	0.0082	0.00		12:51:20 PM
25	CCV1	0.2915	0.3428	0.00		12:53:25 PM
26	CCB1	0.0002	0.0004	0.00	><	12:53:50 PM
27	T39423-6	0.0214	0.0254	0.00		12:55:54 PM
28	T39423-7	0.0390	0.0460	0.00		12:56:19 PM
29	T39513-2	0.0150	0.0179	0.00		12:58:24 PM
30	T39513-3	0.0230	0.0272	0.00		12:58:49 PM
31	T39513-4	0.0592	0.0698	0.00		1:00:54 PM
32	CCV2	0.2972	0.3495	0.00		1:01:19 PM

Report Date :10/17/2009 **Run Date :10/17/2009** **Operator : WESTCO** **Plan # :20091017002**

Plan Description : 101709w1cn CV 10/17/09

10.1.2 10

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Method : WCYA Unit [mg/L] - EPA 335.4/9012 Cyanide 0.01 to 0.50 mg/L

Smp#/[Dil Fact]	Sample ID	Conc	OD	%Recovery/RPD	Flag	Analysis Time
33	**CCB2**	**-0.0005**	**-0.0005**	**0.00**	**INV,><,LL**	**1:03:24 PM**

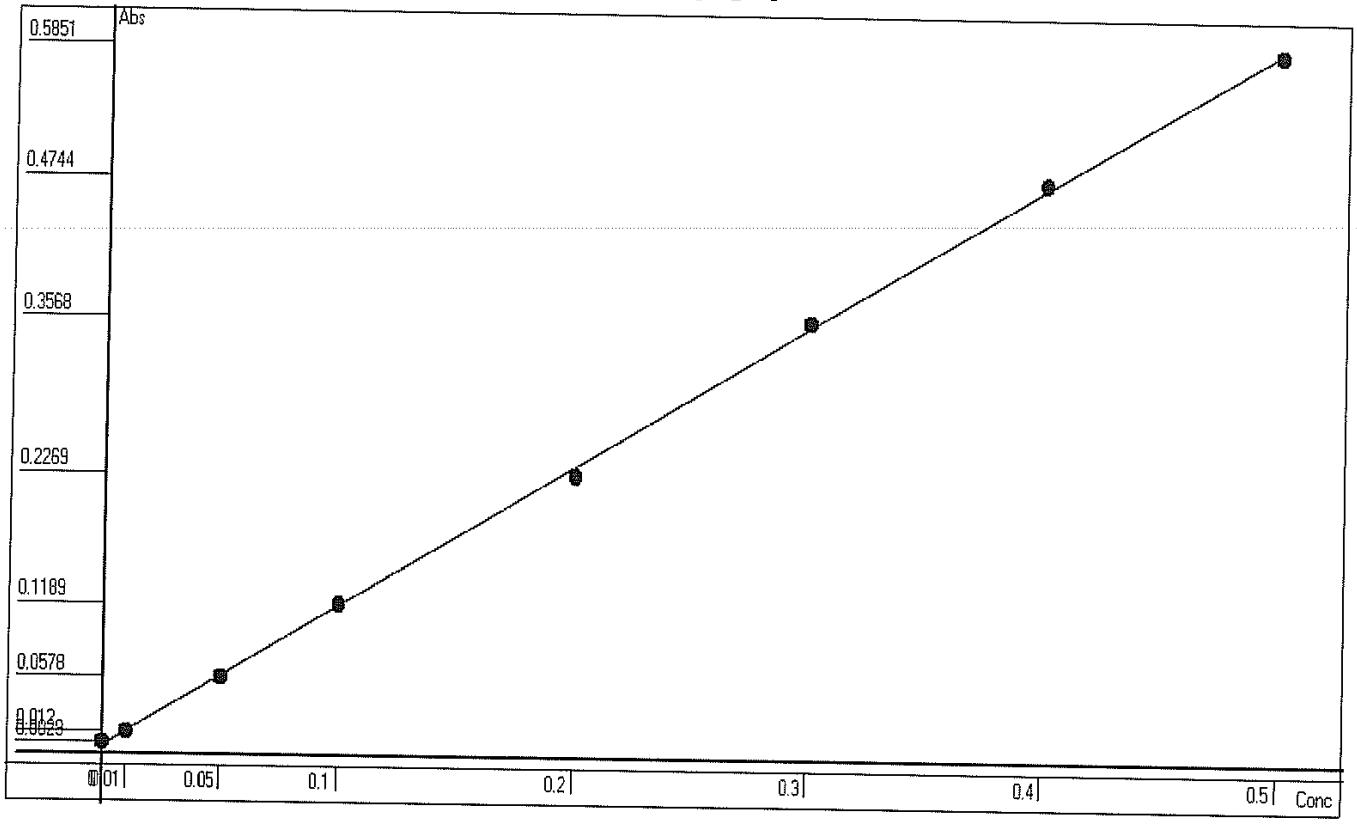
Report Date :10/17/2009 **Run Date :10/17/2009** **Operator : WESTCO** **Plan # :20091017002**

Plan Description : 101709w1cn CV 10/17/09

Calibrant Report - WCYA -

Calib Lot #:090408 Exp Date:9/30/2010 User:Westco Scientific

Plan # : 20091017002 Description : [101709w1cn] Unit [mg/L]



Point	OD	Conc	Recalc Conc	% Error
1	0.0029	0	0.0024	0
2	0.0120	0.01	0.0101	1
3	0.0578	0.05	0.0491	-2
4	0.1189	0.1	0.1011	1
5	0.2269	0.2	0.1929	-4
6	0.3568	0.3	0.3035	1
7	0.4744	0.4	0.4035	1
8	0.5851	0.5	0.4977	0

Conc= +0.8508*Abso -0.0001 R^2=0.9996

RBL

Report Date 10/17/2009 Run Date 6/8/2009

ad 10/17/09

10.1.2 10

ACCUTEST LABORATORIES GULF COAST
10165 HARWIN DRIVE
HOUSTON
TEXAS 77036
Phone : 713-271-4700 Fax : 713-271-4770
Web : WWW.ACCUTEST.COM

Sample #	Sample ID	Position	Dil	WCYA
1	ICV	Rack A1 - 1	1/1	X
2	ICB	Rack A1 - 2	1/1	X
3	BSP	Rack A1 - 3	1/1	X
4	MB	Rack A1 - 4	1/1	X
5	T39314-2S1	Rack A1 - 5	1/1	X
6	T39314-2D1	Rack A1 - 6	1/1	X
7	T39314-2	Rack A1 - 7	1/1	X
8	T39596-1	Rack A1 - 8	1/1	X
9	T39596-2	Rack A1 - 9	1/1	X
10	T39314-1	Rack A1 - 10	1/1	X
11	T39314-3	Rack A1 - 11	1/1	X
12	T39314-4	Rack A1 - 12	1/1	X
13	CCV	Rack A1 - 13	1/1	X
14	CCB	Rack A1 - 14	1/1	X
15	T39314-5	Rack A1 - 15	1/1	X
16	T39314-6	Rack A1 - 16	1/1	X
17	T39423-1	Rack B1 - 1	1/1	X
18	T39423-2	Rack B1 - 2	1/1	X
19	T39513-1S1	Rack B1 - 3	1/1	X
20	T39513-1D1	Rack B1 - 4	1/1	X
21	T39513-1	Rack B1 - 5	1/1	X
22	T39423-3	Rack B1 - 6	1/1	X
23	T39423-4	Rack B1 - 7	1/1	X
24	T39423-5	Rack B1 - 8	1/1	X
25	CCV1	Rack B1 - 9	1/1	X
26	CCB1	Rack B1 - 10	1/1	X
27	T39423-6	Rack B1 - 11	1/1	X
28	T39423-7	Rack B1 - 12	1/1	X
29	T39513-2	Rack B1 - 13	1/1	X
30	T39513-3	Rack B1 - 14	1/1	X
31	T39513-4	Rack B1 - 15	1/1	X
32	CCV2	Rack B1 - 16	1/1	X
33	CCB2	Rack C1 - 1	1/1	X

Report Date :10/17/2009 **Operator : WESTCO** **Plan # :20091017002**

Plan Description : 101709w1cn CW 10/17/09

10.1.2 10

ACCUTEST

Westco Analyzer Run Log

Date: 10/17/09
Time: 1225
Analyst: CV

Sources	
Primary Standard:	GN090108E
Secondary Standard:	GN090114A

Reagent	Reagent ID
Asc. Rhod. Monobasic	2UTC-6S-3
Color Reagent	2UTC-7-2
Chromotrope I	2UTC-7-3

CV

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
ICV	2UTC-8-1				
ICB					
RST				ICS, refer to dist. oil/water log	
MB					
T39914-2S1	5			Agl, refer to distillation log	
↓ -2D1	5				
↓ -2	5				
T39576-1	10				
↓ -2	10				
T39914-1	3				
-3	3				
↓ -4	3				
CCV	2UTC-8-2				
CCB					
T39914-5	3				
↓ -6	3				
T39423-1	3				
↓ -2	3				
T39513-1S1	9			Agl, refer to dist. oil/water log	
-1D1	9				
↓ -1	9				
T39423-3	3				
-4	3				
↓ -5	3				
CCV	2UTC-8-2				
CCB			P.39		

Form: GN059 Rev. 0 8/28/08 QAO

10.1.2 10

ACCUTEST

Westco Analyzer Run Log

Date: 10/17/09
Time: 1205
Analyst: CW

Sources	
Primary Standard:	GN09040SE
Secondary Standard:	GN09011A

Reagent	Reagent ID
Amd. Phen Monitoring	217C-65-3
Cuam Reagent	247C-7-2
Chloramine T	247C-7-3

CN

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
T39429-4	3				
↓ -7	3				
T39519-2	3				
-3	3				
↓ -4	3				
CCV	247C-8-2				
CCB					
					CW 10/17/09
			P.40		

Form: GN059 Rev. 0 8/28/08 QAO

ACCUTEST

CYANIDE DIGESTION LOG

DATE	ANALYST	MATRIX/ METHOD	SAMPLE ID	SAMPLE WT/ VOLUME		REMARKS
10/16/09	CW	9014/9012	Blks	0.5	1	
1550			LCSs	0.5	2	120 mL 247C-6-1
			T39290-1D1	0.5075	3	120 mL 247C-6-1 DOI# 1
			-1D1	0.5024	4	1
			-1	0.5070	5	1
			Blks	6 mL	6	
			LCSs		7	247C-7-1
			T39314-2D1		8	120 mL 247C-6-1 pH >12 10 Neg 5
			-2D1		9	>12 Neg 5
			-2		10	>12 Neg 5
			T39596-1		11	>12 Neg 10
			-2		12	>12 Neg 10
			T39314-1		13	>12 Pos 3
			-3		14	>12 Neg 3
			-4		15	>12 Neg 3
			-5		16	>12 Pos 3
			-6		17	>12 Neg 3
			T39423-1		18	>12 Neg 3
			-2		19	>12 Neg 3
			-3		20	>12 Neg 3
			-4		21	>12 Neg 3
			-5		22	>12 Neg 3
			-6		23	>12 Neg 3

Reagents for Distillation

Reagents for Analysis

Releasing Agent: 207C-65-3

0.95N NaOH: 217C-76-2

Sulfamic Acid GN090622A

Magnesium Carbonate GN050722A

Form: GN035-01
Rev. Date: 7/2/09

ACCUTEST

CYANIDE DIGESTION LOG

DATE	ANALYST	MATRIX/ METHOD	SAMPLE ID	SAMPLE WT/ VOLUME	REMARKS
10/16/09	EV	335.4 / 9012	T39423 - 7	6 mL 20	21TC Neg 3
					1.25 mL 21TC-6-1
			T39513 - 151	25	>12 Neg 9
			- 101	26	>12 Neg 9
			- 1	27	>12 Neg 9
			- 2	28	>12 Neg 3
			- 3	29	>12 Neg 3
			- 4	30	>12 Neg 3
			Blk/Low	31	
			T39596 - 1 low	32	>12 Neg 10
			- 1 low Rep	33	>12 Neg 10
			- 2 low	34	>12 Neg 10
					EV 10/19/09

Reagents for Distillation

Reagents for Analysis

Releasing Agent: 21TC-65-2

0.95N NaOH: 21TC-76-2

Magnesium Lot GN09062SA
Calcium Hypochlorite 21TC-55-2
Barium Lot GN09021GA

Form: GN035-01
Rev. Date: 7/2/09

ACCUTEST

Inorganic Data Review Checklist

Batch ID: GN18368 & GN16369

1. **Following samples are reported in this package:**

Sample ID		deliv. Type Comments
T39314-1	T39423-3	
-2	-4	
-3	-5	
-4	-6	
-5	-7	
-6	T39513-1	
T39596-1	-2	
-2	-3	
T39423-1	-4	
-2		

	Checked by 1st review	2nd review
2. **Sample run log- instrument log + prep log** (Check all standard lot, amount used, sample preparation and dilution information, date and signature)	[✓]	[ ]
3. **Instrument performance report(s) (ICB, BSP, CAL. STDS)** (Check method criteria and frequency)	[✓]	[ ]
4. **Calibration (ICV/CCV/CRDL/ICs) summary** (Check a-method criteria; b -frequency; c-printout)	[✓]	[ ]
5. **Blank** (Check contamination (must be below MDL) and frequency)	[✓]	[ ]
6. **Blank Spike/LCS** (Check recovery and footnote and frequency)	[✓]	[ ]
7. **MS/MSD/DUP** (Check recovery and footnote and frequency)	[✓]	[ ]
8. **Holding Time** (Check footnotes for outside HT and makes sure notify Manager)	[✓]	[ ]
9. **Analytical Comments** (Check for any discrepencies)	[ ]	[ ]

1ST Reviewer;(sign/Date) W 10/19/09

2nd Reviewer (Supervisor)(sign/Date)

Form: QA002, 2/08/01

10.1.2 10