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: T39169

Sampling Date: 10/01/09

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: **464**

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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Sample Summary

ERM Salt Lake City

Vertellus-Provo

Job No: T39169

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
T39169-1	10/01/09	13:00		10/02/09	AQ	Ground Water	SW3:1009
T39169-2	10/01/09	13:45	CL	10/02/09	AQ	Ground Water	SW4:1009
T39169-3	10/01/09	14:30	CL	10/02/09	AQ	Ground Water	SW2:1009
T39169-4	10/01/09	00:00	CL	10/02/09	AQ	Ground Water	SWDUP
T39169-5	10/01/09	15:35	CL	10/02/09	AQ	Ground Water	MW15:1009
T39169-6	10/01/09	16:30	CL	10/02/09	AQ	Ground Water	MW6:1009
T39169-7	10/01/09	00:00	CL	10/02/09	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	ERM Salt Lake City	**Job No**	T39169
Site:	Vertellus-Provo	**Report Date**	10/13/2009 3:41:51 PM

6 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on 10/01/2009 and were received at Accutest on 10/02/2009 properly preserved, at 1.2 Deg. C and intact. These Samples received an Accutest job number of T39169. 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:** VF3595

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T39169-1MS, T39169-1MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP13205

- 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) T39314-2MS, T39314-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 2-Methylphenol, Benzenethiol are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Benzenethiol are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for 2-Methylphenol are outside control limits for sample OP13205-MSD. Probable cause due to sample homogeneity.
- OP13205-MS for Benzenethiol: Compounds was not spiked in this ms sample.

Wet Chemistry By Method EPA 335.4

Matrix AQ **Batch ID:** GP6985

- 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) T38984-1DUP, T38984-1MS were used as the QC samples for Cyanide.

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:	SW3:1009		
Lab Sample ID:	T39169-1	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020632.D	1	10/08/09	AP	n/a	n/a	VF3595
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	98%		79-122%
17060-07-0	1,2-Dichloroethane-D4	99%		75-121%
2037-26-5	Toluene-D8	90%		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:	SW3:1009		
Lab Sample ID:	T39169-1	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
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	J13706.D	1	10/08/09	SC	10/07/09	OP13205	EJ630
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	60%		10-66%
4165-62-2	Phenol-d5	43%		10-53%
118-79-6	2,4,6-Tribromophenol	86%		32-128%
4165-60-0	Nitrobenzene-d5	87%		29-115%
321-60-8	2-Fluorobiphenyl	78%		34-113%
1718-51-0	Terphenyl-d14	138%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
692-47-7	3-Hexene, 2,2,5,5-tetramethyl-, (Z	4.03	11	ug/l	JN
99-82-1	1-Methyl-4-(1-methylethyl)-cyclohe	4.05	4.7	ug/l	JN
1000113-52-1	2,3,3-Trimethyl-1-hexene	4.13	5	ug/l	JN
49622-18-6	Decane, 3,3,4-trimethyl-	4.24	7.2	ug/l	JN
20662-83-3	Oxazole, 4,5-dimethyl-	4.26	8.5	ug/l	JN
6846-50-0	2,2,4-Trimethyl-1,3-pentanediol di	7.17	10	ug/l	JN
	Total TIC, Semi-Volatile		46.4	ug/l	J

(a) Resorcinol was not detected in the sample.

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:	SW3:1009		
Lab Sample ID:	T39169-1	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
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	H35495.D	1	10/20/09	SC	10/07/09	OP13269	EH1917
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	91% [a]		17-131%
321-60-8	2-Fluorobiphenyl	121% [a]		15-137%
1718-51-0	Terphenyl-d14	120% [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:	SW3:1009		
Lab Sample ID:	T39169-1	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0040 U	0.010	0.0040	mg/l	1	10/08/09 12:47	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:	SW4:1009		
Lab Sample ID:	T39169-2	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020636.D	1	10/09/09	AP	n/a	n/a	VF3595
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	98%		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	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:	SW4:1009		
Lab Sample ID:	T39169-2	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
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	J13707.D	1	10/08/09	SC	10/07/09	OP13205	EJ630
Run #2							

	Initial Volume	Final Volume
Run #1	980 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	5.1	1.3	ug/l	
95-48-7	2-Methylphenol	0.85 U	5.1	0.85	ug/l	
	3&4-Methylphenol	1.6 U	5.1	1.6	ug/l	
108-95-2	Phenol	0.77 U	5.1	0.77	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	36%		10-66%
4165-62-2	Phenol-d5	25%		10-53%
118-79-6	2,4,6-Tribromophenol	52%		32-128%
4165-60-0	Nitrobenzene-d5	52%		29-115%
321-60-8	2-Fluorobiphenyl	45%		34-113%
1718-51-0	Terphenyl-d14	99%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
107-86-8	2-Butenal, 3-methyl-	4.03	6	ug/l	JN
49622-18-6	Decane, 3,3,4-trimethyl-	4.24	4.9	ug/l	JN
4291-79-6	Cyclohexane, 1-methyl-2-propyl-	4.26	4.5	ug/l	JN
74367-33-2	Propanoic acid, 2-methyl-, 2,2-dim	7.17	6.1	ug/l	JN
7683-64-9	Squalene	18.76	5.3	ug/l	JN
	Total TIC, Semi-Volatile		26.8	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:	SW4:1009		
Lab Sample ID:	T39169-2	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
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	H35496.D	1	10/20/09	SC	10/07/09	OP13269	EH1917
Run #2							

	Initial Volume	Final Volume
Run #1	980 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	0.073 U	0.20	0.073	ug/l	
120-12-7	Anthracene	0.055 U	0.20	0.055	ug/l	
56-55-3	Benzo(a)anthracene	0.042 U	0.20	0.042	ug/l	
50-32-8	Benzo(a)pyrene	0.066 U	0.20	0.066	ug/l	
205-99-2	Benzo(b)fluoranthene	0.062 U	0.20	0.062	ug/l	
207-08-9	Benzo(k)fluoranthene	0.057 U	0.20	0.057	ug/l	
218-01-9	Chrysene	0.045 U	0.20	0.045	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.061 U	0.20	0.061	ug/l	
206-44-0	Fluoranthene	0.047 U	0.20	0.047	ug/l	
86-73-7	Fluorene	0.066 U	0.20	0.066	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.062 U	0.20	0.062	ug/l	
91-20-3	Naphthalene	0.077 U	0.20	0.077	ug/l	
85-01-8	Phenanthrene	0.077 U	0.20	0.077	ug/l	
129-00-0	Pyrene	0.081 U	0.20	0.081	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	50% [a]		17-131%
321-60-8	2-Fluorobiphenyl	68% [a]		15-137%
1718-51-0	Terphenyl-d14	110% [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:	SW4:1009		
Lab Sample ID:	T39169-2	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0040 U	0.010	0.0040	mg/l	1	10/08/09 12:49	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:	SW2:1009		
Lab Sample ID:	T39169-3	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020637.D	1	10/09/09	AP	n/a	n/a	VF3595
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	100%		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

Accutest Laboratories

Report of Analysis

Client Sample ID:	SW2:1009		
Lab Sample ID:	T39169-3	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
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	J13708.D	1	10/08/09	SC	10/07/09	OP13205	EJ630
Run #2							

	Initial Volume	Final Volume
Run #1	970 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	5.2	1.3	ug/l	
95-48-7	2-Methylphenol	0.86 U	5.2	0.86	ug/l	
	3&4-Methylphenol	1.6 U	5.2	1.6	ug/l	
108-95-2	Phenol	0.78 U	5.2	0.78	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		10-66%
4165-62-2	Phenol-d5	23%		10-53%
118-79-6	2,4,6-Tribromophenol	49%		32-128%
4165-60-0	Nitrobenzene-d5	50%		29-115%
321-60-8	2-Fluorobiphenyl	44%		34-113%
1718-51-0	Terphenyl-d14	107%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
1000152-79-7	Cyclopentane, 1,2,3,4,5-pentamethy	4.03	5.6	ug/l	JN
49622-18-6	Decane, 3,3,4-trimethyl-	4.24	4.7	ug/l	JN
6846-50-0	2,2,4-Trimethyl-1,3-pentanediol di	7.17	8.8	ug/l	JN
	Total TIC, Semi-Volatile		19.1	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:	SW2:1009		
Lab Sample ID:	T39169-3	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
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	H35497.D	1	10/20/09	SC	10/07/09	OP13269	EH1917
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

SW846 8270 PAH Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.043 U	0.21	0.043	ug/l	
208-96-8	Acenaphthylene	0.074 U	0.21	0.074	ug/l	
120-12-7	Anthracene	0.055 U	0.21	0.055	ug/l	
56-55-3	Benzo(a)anthracene	0.042 U	0.21	0.042	ug/l	
50-32-8	Benzo(a)pyrene	0.066 U	0.21	0.066	ug/l	
205-99-2	Benzo(b)fluoranthene	0.062 U	0.21	0.062	ug/l	
207-08-9	Benzo(k)fluoranthene	0.057 U	0.21	0.057	ug/l	
218-01-9	Chrysene	0.046 U	0.21	0.046	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.061 U	0.21	0.061	ug/l	
206-44-0	Fluoranthene	0.047 U	0.21	0.047	ug/l	
86-73-7	Fluorene	0.066 U	0.21	0.066	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.062 U	0.21	0.062	ug/l	
91-20-3	Naphthalene	0.26	0.21	0.078	ug/l	
85-01-8	Phenanthrene	0.077 U	0.21	0.077	ug/l	
129-00-0	Pyrene	0.081 U	0.21	0.081	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	52% [a]		17-131%
321-60-8	2-Fluorobiphenyl	62% [a]		15-137%
1718-51-0	Terphenyl-d14	111% [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:	SW2:1009		
Lab Sample ID:	T39169-3	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0040 U	0.010	0.0040	mg/l	1	10/08/09 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:	SWDUP		
Lab Sample ID:	T39169-4	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020638.D	1	10/09/09	AP	n/a	n/a	VF3595
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	94%		75-121%
2037-26-5	Toluene-D8	90%		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:	SWDUP		
Lab Sample ID:	T39169-4	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
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	J13709.D	1	10/08/09	SC	10/07/09	OP13205	EJ630
Run #2							

	Initial Volume	Final Volume
Run #1	985 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	5.1	1.3	ug/l	
95-48-7	2-Methylphenol	0.85 U	5.1	0.85	ug/l	
	3&4-Methylphenol	1.6 U	5.1	1.6	ug/l	
108-95-2	Phenol	0.76 U	5.1	0.76	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	58%		10-66%
4165-62-2	Phenol-d5	41%		10-53%
118-79-6	2,4,6-Tribromophenol	75%		32-128%
4165-60-0	Nitrobenzene-d5	85%		29-115%
321-60-8	2-Fluorobiphenyl	77%		34-113%
1718-51-0	Terphenyl-d14	114%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
34314-83-5	Furan, 2,3-dihydro-4-methyl-	4.03	9.4	ug/l	JN
16580-24-8	Cyclohexane, 1-methyl-3-(1-methyle	4.05	5.2	ug/l	JN
1000113-52-1	2,3,3-Trimethyl-1-hexene	4.13	4.9	ug/l	JN
565-75-3	Pentane, 2,3,4-trimethyl-	4.24	7.3	ug/l	JN
14123-41-2	Cyclopropane, 3-chloro-1,1,2,2-tet	4.26	7.2	ug/l	JN
6846-50-0	2,2,4-Trimethyl-1,3-pentanediol di	7.17	16	ug/l	JN
	Total TIC, Semi-Volatile		50	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:	SWDUP		
Lab Sample ID:	T39169-4	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
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	H35498.D	1	10/20/09	SC	10/07/09	OP13269	EH1917
Run #2							

	Initial Volume	Final Volume
Run #1	985 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	0.073 U	0.20	0.073	ug/l	
120-12-7	Anthracene	0.054 U	0.20	0.054	ug/l	
56-55-3	Benzo(a)anthracene	0.042 U	0.20	0.042	ug/l	
50-32-8	Benzo(a)pyrene	0.065 U	0.20	0.065	ug/l	
205-99-2	Benzo(b)fluoranthene	0.061 U	0.20	0.061	ug/l	
207-08-9	Benzo(k)fluoranthene	0.057 U	0.20	0.057	ug/l	
218-01-9	Chrysene	0.045 U	0.20	0.045	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	0.065 U	0.20	0.065	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.061 U	0.20	0.061	ug/l	
91-20-3	Naphthalene	0.076 U	0.20	0.076	ug/l	
85-01-8	Phenanthrene	0.076 U	0.20	0.076	ug/l	
129-00-0	Pyrene	0.080 U	0.20	0.080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81% [a]		17-131%
321-60-8	2-Fluorobiphenyl	121% [a]		15-137%
1718-51-0	Terphenyl-d14	106% [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

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW15:1009		
Lab Sample ID:	T39169-5	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020639.D	1	10/09/09	AP	n/a	n/a	VF3595
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	100%		75-121%
2037-26-5	Toluene-D8	90%		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:	MW15:1009		
Lab Sample ID:	T39169-5	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
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	J13710.D	1	10/08/09	SC	10/07/09	OP13205	EJ630
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	39%		10-66%
4165-62-2	Phenol-d5	26%		10-53%
118-79-6	2,4,6-Tribromophenol	47%		32-128%
4165-60-0	Nitrobenzene-d5	55%		29-115%
321-60-8	2-Fluorobiphenyl	48%		34-113%
1718-51-0	Terphenyl-d14	65%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
1000152-79-7	Cyclopentane, 1,2,3,4,5-pentamethy	4.02	6.5	ug/l	JN
20662-83-3	Oxazole, 4,5-dimethyl-	4.26	5.5	ug/l	JN
74367-33-2	Propanoic acid, 2-methyl-, 2,2-dim	7.17	8.7	ug/l	JN
	Total TIC, Semi-Volatile		20.7	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:	MW15:1009		
Lab Sample ID:	T39169-5	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
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	H35499.D	1	10/20/09	SC	10/07/09	OP13269	EH1917
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	71% [a]		17-131%
321-60-8	2-Fluorobiphenyl	117% [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:	MW15:1009		
Lab Sample ID:	T39169-5	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.0040 U	0.010	0.0040	mg/l	1	10/08/09 12:54	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:	MW6:1009		
Lab Sample ID:	T39169-6	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020640.D	1	10/09/09	AP	n/a	n/a	VF3595
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	98%		79-122%
17060-07-0	1,2-Dichloroethane-D4	101%		75-121%
2037-26-5	Toluene-D8	90%		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:	MW6:1009		
Lab Sample ID:	T39169-6	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
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	J13711.D	1	10/08/09	SC	10/07/09	OP13205	EJ630
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	60%		10-66%
4165-62-2	Phenol-d5	42%		10-53%
118-79-6	2,4,6-Tribromophenol	81%		32-128%
4165-60-0	Nitrobenzene-d5	86%		29-115%
321-60-8	2-Fluorobiphenyl	79%		34-113%
1718-51-0	Terphenyl-d14	104%		12-145%

CAS No.	Tentatively Identified Compounds [a]	R.T.	Est. Conc.	Units	Q
1576-87-0	2-Pentenal, (E)-	4.03	12	ug/l	JN
1000113-52-1	2,3,3-Trimethyl-1-hexene	4.13	5	ug/l	JN
49622-18-6	Decane, 3,3,4-trimethyl-	4.24	7.6	ug/l	JN
14123-41-2	Cyclopropane, 3-chloro-1,1,2,2-tet	4.26	7.4	ug/l	JN
109-21-7	Butanoic acid, butyl ester	7.17	16	ug/l	JN
	Total TIC, Semi-Volatile		48	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:	MW6:1009		
Lab Sample ID:	T39169-6	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
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	H35500.D	1	10/20/09	SC	10/07/09	OP13269	EH1917
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	78% [a]		17-131%
321-60-8	2-Fluorobiphenyl	136% [a]		15-137%
1718-51-0	Terphenyl-d14	111% [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:	MW6:1009		
Lab Sample ID:	T39169-6	**Date Sampled:**	10/01/09
Matrix:	AQ - Ground Water	**Date Received:**	10/02/09
		Percent Solids:	n/a
Project:	Vertellus-Provo		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Cyanide	0.020	0.010	0.0040	mg/l	1	10/08/09 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:	TRIP BLANK		
Lab Sample ID:	T39169-7	**Date Sampled:**	10/01/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/02/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Vertellus-Provo		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F020630.D	1	10/08/09	AP	n/a	n/a	VF3595
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	95%		79-122%
17060-07-0	1,2-Dichloroethane-D4	96%		75-121%
2037-26-5	Toluene-D8	90%		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

PAGE 1 OF 1

ACCUTEST Laboratories

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

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: T39169

Client / Reporting Information

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

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
	SW3:1009	10/1/09	13:00	KB	GW	12	6	2				4							X	X		X							MS/MSD
	SW4:1009	10/1/09	13:45	KB	GW	6	3	1				2							X	X		X							
	SW2:1009	10/1/09	14:30	KB	GW	6	3	1				2							X	X		X							
	SWDUP	10/1/09		KB	GW	6	3	1				2							X	X		X							
	MW15:1009	10/1/09	15:35	KB	GW	6	3	1				2							X	X		X							
	MW6:1009	10/1/09	16:30	KB	GW	6	3	1				2							X	X		X							
	Trip Blank																		X										

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

Turnaround Time (Business days)

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

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

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	10/1/09 19:00	1	2 Fed Ex	9/5 10/2/09	2
Relinquished by Sampler: 3	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 [x] Cooler Temp. 1.2

T39169: Chain of Custody
Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T39169 Client: ERM Date/Time Received: 10/2/09 0915

# of Coolers Received: 2 Thermometer #: IR-1 Temperature Adjustment Factor: +0.4

Cooler Temps: #1: 1.2 #2: 4.0 #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
- [x] Received Water Trip Blank
- [ ] Received Soil TB

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

Summary of Discrepancies:

1. Did not receive CN P125 container for sample #4 (SW Dup).

TECHNICIAN SIGNATURE/DATE: [signature]

INFORMATION AND SAMPLE LABELING VERIFIED BY: EC 10/2/09

CORRECTIVE ACTIONS

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

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

Client Instructions:

i:\mwalker\form\samplemanagement

T39169: Chain of Custody
Page 2 of 3

SAMPLE RECEIPT LOG

JOB #: T39169 DATE/TIME RECEIVED: 10/2/09 0915

CLIENT: ERM INITIALS: EF

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	SW3: 1009 MS/MSD	10/1/09 1300	W	LAG	1-4	ID	(1) 2 3 4 5 6 7 8	<2	>12
2					P125	5-6	"	1 2 3 4 (5) 6 7 8	<2	>12
"					40ml	7-12	VR	1 (2) 3 4 5 6 7 8	<2	>12
1	2	SW4: "	1345		LAG	1-2	ID	(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	SW2: "	1430		LAG	1-2	ID	(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	SWDUP	—		LAG	1-2	ID	(1) 2 3 4 5 6 7 8	<2	>12
2					~~P125~~	~~3~~		1 2 3 4 ~~(5)~~ 6 7 8	<2	>12
"					40ml	~~3-5~~ ~~4-6~~	VR EF 10/2/09	1 (2) 3 4 5 6 7 8	<2	>12
1	5	MW15: "	1515		LAG	1-2	ID	(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	MW6: "	1630		LAG	1-2	ID	(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	7	Trip Blank	—	WTB	40ml	1-2	VR	1 (2) 3 4 5 6 7 8	<2	>12
								~~1 2 3 4 5 6 7 8~~	~~<2~~	~~>12~~
								1 2 3 4 5 6 7 8	<2	>12
			EF 10/2/09					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

T39169: Chain of Custody

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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: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3595-MB	F020629.D	1	10/08/09	AP	n/a	n/a	VF3595

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

T39169-1, T39169-2, T39169-3, T39169-4, T39169-5, T39169-6, T39169-7

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	ND	5.0	0.41	ug/l	
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	96%	79-122%
17060-07-0	1,2-Dichloroethane-D4	96%	75-121%
2037-26-5	Toluene-D8	93%	87-119%
460-00-4	4-Bromofluorobenzene	90%	80-133%

Blank Spike Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3595-BS	F020627.D	1	10/08/09	AP	n/a	n/a	VF3595

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

T39169-1, T39169-2, T39169-3, T39169-4, T39169-5, T39169-6, T39169-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	123	98	62-124
71-43-2	Benzene	25	26.7	107	76-118
67-66-3	Chloroform	25	26.0	104	75-117
75-15-0	Carbon disulfide	25	26.1	104	57-126
100-41-4	Ethylbenzene	25	24.4	98	75-112
74-95-3	Methylene bromide	25	25.3	101	68-114
75-09-2	Methylene chloride	25	27.3	109	70-113
78-93-3	Methyl ethyl ketone	125	125	100	62-117
108-88-3	Toluene	25	25.2	101	77-114
1330-20-7	Xylene (total)	75	74.5	99	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	79-122%
17060-07-0	1,2-Dichloroethane-D4	97%	75-121%
2037-26-5	Toluene-D8	91%	87-119%
460-00-4	4-Bromofluorobenzene	88%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T39169-1MS	F020633.D	1	10/09/09	AP	n/a	n/a	VF3595
T39169-1MSD	F020634.D	1	10/09/09	AP	n/a	n/a	VF3595
T39169-1	F020632.D	1	10/08/09	AP	n/a	n/a	VF3595

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

T39169-1, T39169-2, T39169-3, T39169-4, T39169-5, T39169-6, T39169-7

CAS No.	Compound	T39169-1 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	120	96	124	99	3	62-124/21
71-43-2	Benzene	2.0 U		25	27.7	111	27.3	109	1	76-118/16
67-66-3	Chloroform	2.0 U		25	26.8	107	26.8	107	0	75-117/12
75-15-0	Carbon disulfide	2.0 U		25	25.6	102	26.0	104	2	57-126/13
100-41-4	Ethylbenzene	2.0 U		25	24.4	98	24.3	97	0	75-112/12
74-95-3	Methylene bromide	2.0 U		25	26.1	104	26.2	105	0	68-114/13
75-09-2	Methylene chloride	5.0 U		25	25.2	101	25.2	101	0	70-113/13
78-93-3	Methyl ethyl ketone	10 U		125	119	95	122	98	2	62-117/21
108-88-3	Toluene	2.0 U		25	25.7	103	25.2	101	2	77-114/12
1330-20-7	Xylene (total)	6.0 U		75	75.1	100	74.2	99	1	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T39169-1	Limits
1868-53-7	Dibromofluoromethane	96%	97%	98%	79-122%
17060-07-0	1,2-Dichloroethane-D4	102%	101%	99%	75-121%
2037-26-5	Toluene-D8	90%	90%	90%	87-119%
460-00-4	4-Bromofluorobenzene	91%	89%	90%	80-133%

Instrument Performance Check (BFB)

Job Number: T39169
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 T39169)
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: T39169
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

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: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3595-BFB
Lab File ID: F020625.D
Instrument ID: GCMSF
Injection Date: 10/08/09
Injection Time: 20:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	5525	22.1		Pass
75	30.0 - 60.0% of mass 95	13132	52.6		Pass
95	Base peak, 100% relative abundance	24970	100.0		Pass
96	5.0 - 9.0% of mass 95	1787	7.2		Pass
173	Less than 2.0% of mass 174	0	0.0	(0.0) [a]	Pass
174	50.0 - 100.0% of mass 95	20570	82.4		Pass
175	5.0 - 9.0% of mass 174	1619	6.5	(7.9) [a]	Pass
176	95.0 - 101.0% of mass 174	20634	82.6	(100.3) [a]	Pass
177	5.0 - 9.0% of mass 176	1464	5.9	(7.1) [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
VF3595-CC3547	F020626.D	10/08/09	20:42	00:30	Continuing cal 40
VF3595-BS	F020627.D	10/08/09	21:12	01:00	Blank Spike
VF3595-MB	F020629.D	10/08/09	22:12	02:00	Method Blank
T39169-7	F020630.D	10/08/09	22:42	02:30	TRIP BLANK
ZZZZZZ	F020631.D	10/08/09	23:13	03:01	(unrelated sample)
T39169-1	F020632.D	10/08/09	23:43	03:31	SW3:1009
T39169-1MS	F020633.D	10/09/09	00:13	04:01	Matrix Spike
T39169-1MSD	F020634.D	10/09/09	00:43	04:31	Matrix Spike Duplicate
T39169-2	F020636.D	10/09/09	01:42	05:30	SW4:1009
T39169-3	F020637.D	10/09/09	02:12	06:00	SW2:1009
T39169-4	F020638.D	10/09/09	02:43	06:31	SWDUP
T39169-5	F020639.D	10/09/09	03:13	07:01	MW15:1009
T39169-6	F020640.D	10/09/09	03:43	07:31	MW6:1009
ZZZZZZ	F020641.D	10/09/09	04:13	08:01	(unrelated sample)
ZZZZZZ	F020642.D	10/09/09	04:43	08:31	(unrelated sample)
ZZZZZZ	F020643.D	10/09/09	05:14	09:02	(unrelated sample)
ZZZZZZ	F020644.D	10/09/09	05:44	09:32	(unrelated sample)
ZZZZZZ	F020645.D	10/09/09	06:14	10:02	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	VF3595-CC3547	**Injection Date:**	10/08/09
Lab File ID:	F020626.D	**Injection Time:**	20:42
Instrument ID:	GCMSF	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	983492	10.64	722271	14.61	406688	17.80
Upper Limit [a]	1966984	11.14	1444542	15.11	813376	18.30
Lower Limit [b]	491746	10.14	361136	14.11	203344	17.30

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
VF3595-BS	1002685	10.65	748924	14.61	426103	17.80
VF3595-MB	1028568	10.64	768490	14.61	425275	17.80
T39169-7	1012111	10.65	751235	14.62	421765	17.81
ZZZZZZ	1009978	10.66	753333	14.62	420466	17.81
T39169-1	980510	10.65	751095	14.62	415830	17.81
T39169-1MS	989057	10.65	742850	14.62	417703	17.80
T39169-1MSD	1023042	10.66	777316	14.63	442321	17.81
T39169-2	1039027	10.66	797108	14.63	440474	17.82
T39169-3	1033228	10.66	773328	14.63	434999	17.82
T39169-4	1039223	10.66	785005	14.64	430358	17.82
T39169-5	1018214	10.66	769449	14.63	432871	17.82
T39169-6	1005725	10.66	766004	14.63	426542	17.82
ZZZZZZ	985328	10.66	757277	14.63	424258	17.82
ZZZZZZ	993465	10.66	752584	14.63	420847	17.82
ZZZZZZ	1000871	10.66	768168	14.63	429122	17.82
ZZZZZZ	1006810	10.66	780036	14.63	447872	17.82
ZZZZZZ	1374958	10.66	1048168	14.63	574392	17.82

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: T39169
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
T39169-1	F020632.D	98.0	99.0	90.0	90.0
T39169-2	F020636.D	98.0	99.0	89.0	89.0
T39169-3	F020637.D	97.0	100.0	92.0	90.0
T39169-4	F020638.D	97.0	94.0	90.0	90.0
T39169-5	F020639.D	97.0	100.0	90.0	89.0
T39169-6	F020640.D	98.0	101.0	90.0	90.0
T39169-7	F020630.D	95.0	96.0	90.0	90.0
T39169-1MS	F020633.D	96.0	102.0	90.0	91.0
T39169-1MSD	F020634.D	97.0	101.0	90.0	89.0
VF3595-BS	F020627.D	97.0	97.0	91.0	88.0
VF3595-MB	F020629.D	96.0	96.0	93.0	90.0

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: T39169
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: T39169 **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: T39169 **Sample:** VF3547-ICC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F019686.D
Project: Vertellus-Provo

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 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: T39169
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: T39169
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: T39169 **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: T39169 **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: T39169
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
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Initial Calibration Verification

Job Number: T39169
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: T39169
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: T39169
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: T39169
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: T39169
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: T39169
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: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: VF3595-CC3547
Lab FileID: F020626.D

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\2\DATA\VF3593\F020626.D          Vial: 24
Acq On    :  8 Oct 2009   8:42 pm                   Operator: AnjanaP
Sample    : cc3547-40                               Inst    : GC/MS F
Misc      : ms7097,vf3595,5,,,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	103	0.02	10.64
2		Dichlorodifluoromethane	0.281	0.254	9.6	75	0.01	4.63
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	29.592	26.0#	56	0.00	5.00
4	C	Vinyl Chloride	40.000	36.374	9.1	71	-0.03	5.21
5		Bromomethane	40.000	52.134	-30.3#	113	0.00	5.82
			AvgRF	CCRF	%Dev			
6		Chloroethane	0.134	0.140	-4.5	105	0.00	5.97
7		Trichlorofluoromethane	0.434	0.419	3.5	96	0.01	6.33
8		Acrolein	0.022	0.020	9.1	101	0.02	8.18
9		Ethyl Ether	0.180	0.171	5.0	96	0.01	6.63
10	C	1,1-Dichloroethene	0.350	0.396	-13.1	115	0.00	7.06
11		Freon 113	0.225	0.249	-10.7	116	0.00	6.96
			Amount	Calc.	%Drift			
12		Acetone	200.000	201.828	-0.9	96	0.01	7.11
			AvgRF	CCRF	%Dev			
13		Iodomethane	0.388	0.465	-19.8	112	0.00	7.38
			Amount	Calc.	%Drift			
14		Methyl acetate	200.000	203.261	-1.6	105	0.01	7.47
15		Allyl Chloride	40.000	44.037	-10.1	122	0.01	7.52
			AvgRF	CCRF	%Dev			
16		Carbon Disulfide	0.690	0.711	-3.0	106	0.01	7.51
			Amount	Calc.	%Drift			
17		Acetonitrile	100.000	118.810	-18.8	137	0.01	7.52
18		Methylene Chloride	40.000	43.215	-8.0	106	0.00	7.74
			AvgRF	CCRF	%Dev			
19		Tert Butyl Alcohol	0.021	0.021	0.0	100	0.02	7.67
20		trans-1,2-Dichloroethene	0.327	0.356	-8.9	108	0.01	8.01
21		Acrylonitrile	0.058	0.054	6.9	102	0.01	8.07
22		Methyl Tert Butyl Ether	0.740	0.779	-5.3	104	0.01	7.90
23		Hexane	0.180	0.165	8.3	103	0.02	8.18
24	P	1,1-Dichloroethane	0.413	0.415	-0.5	99	0.02	8.58
25		Vinyl acetate	0.518	0.523	-1.0	101	0.02	8.49
26		Di-isopropyl ether	0.807	0.772	4.3	97	0.02	8.41

Continuing Calibration Summary

Job Number: T39169 **Sample:** VF3595-CC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F020626.D
Project: Vertellus-Provo

27		Chloroprene	0.382	0.375	1.8	98	0.02	8.64
28		Ethyl tert-butyl ether	0.793	0.832	-4.9	101	0.01	8.84
29		2,2-Dichloropropane	0.341	0.295	13.5	86	0.02	9.27
30		cis-1,2-Dichloroethene	0.284	0.274	3.5	96	0.02	9.29
31		Ethyl Acetate	0.279	0.291	-4.3	102	0.01	9.17
32		2-Butanone	0.279	0.291	-4.3	102	0.01	9.17
33		Propionitrile	0.021	0.023	-9.5	105	0.01	9.41
34		Methacrylonitrile	0.188	0.176	6.4	102	0.01	9.56
35		Bromochloromethane	0.141	0.153	-8.5	102	0.02	9.61
36	C	Chloroform	0.547	0.560	-2.4	98	0.02	9.62
		----------	Amount	Calc.	%Drift		----------	
37		Tetrahydrofuran	40.000	43.293	-8.2	95	0.01	9.17
		----------	AvgRF	CCRF	%Dev		----------	
38		1,1,1-Trichloroethane	0.471	0.463	1.7	95	0.02	9.88
39	S	Dibromofluoromethane	0.296	0.291	1.7	96	0.01	9.83
40		Cyclohexane	0.284	0.269	5.3	102	0.02	9.90
		----------	Amount	Calc.	%Drift		----------	
41		Isobutyl Alcohol	800.000	697.231	12.8	94	0.02	9.98
42		n-Butyl Alcohol	800.000	727.193	9.1	100	0.02	10.78
		----------	AvgRF	CCRF	%Dev		----------	
43		1,1-Dichloropropene	0.351	0.364	-3.7	104	0.02	10.05
44		Carbon Tetrachloride	0.411	0.422	-2.7	101	0.02	10.05
		----------	Amount	Calc.	%Drift		----------	
45	S	1,2-Dichloroethane-d4	40.000	42.205	-5.5	94	0.02	10.31
		----------	AvgRF	CCRF	%Dev		----------	
46		Benzene	0.820	0.856	-4.4	107	0.02	10.33
47		1,2-Dichloroethane	0.476	0.478	-0.4	97	0.02	10.41
48		tert-amyl methyl ether	0.747	0.787	-5.4	107	0.02	10.28
		----------	Amount	Calc.	%Drift		----------	
49		Trichloroethene	40.000	41.461	-3.7	102	0.02	11.09
		----------	AvgRF	CCRF	%Dev		----------	
50		Methylcyclohexane	0.264	0.250	5.3	102	0.02	11.27
51		Methyl Methacrylate	0.219	0.216	1.4	98	0.02	11.33
52	C	1,2-Dichloropropane	0.202	0.205	-1.5	105	0.02	11.43
53		Dibromomethane	0.194	0.206	-6.2	103	0.02	11.63
54		1,4-Dioxane	0.002	0.002	0.0	104	0.02	11.51
55		Bromodichloromethane	0.472	0.457	3.2	95	0.02	11.74
56		2-Nitropropane	0.100	0.100	0.0	100	0.02	12.06
57		2-Chloroethyl vinyl ether	0.104	0.131	-26.0#	123	0.02	11.98
58		1-Bromo-2-Chloroethane	0.295	0.206	30.2#	72	0.02	12.23
59		4-Methyl-2-pentanone	0.195	0.188	3.6	101	0.02	12.36
60		cis-1,3-Dichloropropene	0.441	0.438	0.7	98	0.02	12.28
61	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.02	14.61
		----------	Amount	Calc.	%Drift		----------	
62	S	Toluene-d8	40.000	37.744	5.6	100	0.02	12.59
		----------	AvgRF	CCRF	%Dev		----------	
63	C	Toluene	1.341	1.332	0.7	105	0.03	12.69
64		Ethyl Methacrylate	0.428	0.449	-4.9	106	0.03	12.87
65		trans-1,3-Dichloropropene	0.582	0.571	1.9	98	0.02	12.99

Continuing Calibration Summary

Job Number: T39169 **Sample:** VF3595-CC3547
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** F020626.D
Project: Vertellus-Provo

66		1,1,2-Trichloroethane	0.251	0.252	-0.4	105	0.03	13.27
67		Tetrachloroethene	0.422	0.412	2.4	105	0.03	13.42
68		2-hexanone	0.192	0.187	2.6	100	0.03	13.43
69		1,3-Dichloropropane	0.564	0.554	1.8	103	0.02	13.52
70		Dibromochloromethane	0.433	0.429	0.9	97	0.02	13.83
71		1,2-Dibromoethane	0.353	0.358	-1.4	104	0.02	14.07
72		1-Chlorohexane	0.470	0.424	9.8	94	0.02	14.40
73	P	Chlorobenzene	0.890	0.870	2.2	101	0.03	14.66
74		1,1,1,2-Tetrachloroethane	0.385	0.381	1.0	98	0.02	14.73
75	C	Ethylbenzene	1.670	1.576	5.6	97	0.02	14.67
76		m,p-Xylene	1.285	1.228	4.4	97	0.03	14.82
77		o-Xylene	1.337	1.292	3.4	97	0.02	15.40
78		Styrene	0.951	0.972	-2.2	102	0.03	15.43
79	P	Bromoform	0.308	0.298	3.2	93	0.03	15.83
80	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.02	17.80
81		Isopropylbenzene	2.264	2.054	9.3	90	0.03	15.83
		----------	Amount	Calc.	%Drift		----------	
82		Cyclohexanone	200.000	236.784	-18.4	118	0.03	16.16
83	S	4-Bromofluorobenzene	40.000	37.192	7.0	90	0.03	16.17
		----------	AvgRF	CCRF	%Dev		----------	
84		Bromobenzene	0.809	0.804	0.6	98	0.03	16.44
85	P	1,1,2,2-Tetrachloroethane	0.619	0.562	9.2	90	0.03	16.31
86		Trans-1,4-Dichloro-2-Bute	0.229	0.201	12.2	79	0.03	16.38
87		1,2,3-Trichloropropane	0.236	0.227	3.8	94	0.02	16.43
88		n-Propylbenzene	3.103	2.782	10.3	88	0.02	16.37
89		2-Chlorotoluene	2.306	2.105	8.7	91	0.03	16.63
90		4-Chlorotoluene	2.155	1.983	8.0	91	0.02	16.77
91		1,3,5-Trimethylbenzene	2.053	1.857	9.5	88	0.03	16.58
92		Pentachloroethane	0.522	0.516	1.1	96	0.02	17.24
93		sec-Butylbenzene	2.264	1.942	14.2	85	0.03	17.37
94		1,3-Dichlorobenzene	1.264	1.209	4.4	92	0.02	17.71
95		4-Isopropyltoluene	1.841	1.591	13.6	85	0.02	17.52
96		1,4-Dichlorobenzene	1.302	1.223	6.1	88	0.02	17.84
		----------	Amount	Calc.	%Drift		----------	
97		tert-Butylbenzene	40.000	35.319	11.7	83	0.02	17.36
		----------	AvgRF	CCRF	%Dev		----------	
98		n-Butylbenzene	1.782	1.453	18.5	77	0.02	18.12
99		1,2-Dichlorobenzene	1.186	1.079	9.0	83	0.03	18.43
100		1,2,4-Trimethylbenzene	2.195	1.945	11.4	86	0.03	17.14
101		Hexachloroethane	0.436	0.359	17.7	67	0.03	18.75
		----------	Amount	Calc.	%Drift		----------	
102		1,2-Dibromo-3-Chloropropa	40.000	22.750	43.1#	46	0.02	19.57
103		1,2,4-Trichlorobenzene	40.000	15.216	62.0#	32	0.02	20.79
104		Hexachlorobutadiene	40.000	26.980	32.6#	55	0.01	20.86
105		Naphthalene	40.000	7.817	80.5#	18	0.02	21.25
106		1,2,3-Trichlorobenzene	40.000	6.123	84.7#	16	0.02	21.66
		----------	AvgRF	CCRF	%Dev		----------	
107	I	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	95	0.02	17.80
		----------	Amount	Calc.	%Drift		----------	
108	H	TPH-GRO (C6-C10)	4000.000	2569.291	35.8#	99	0.00	12.34

Continuing Calibration Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: VF3595-CC3547
Lab FileID: F020626.D

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--------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    F019686.D  VF3547AP9G.M       Fri Oct 09 11:54:35 2009
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GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020632.D Vial: 30
Acq On : 8 Oct 2009 11:43 pm Operator: AnjanaP
Sample : t39169-1 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:18 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	10.65	96	980510	50.00	ug/L	0.03
61) Chlorobenzene-d5	14.62	117	751095	50.00	ug/L	0.03
80) 1,4-Dichlorobenzene-d4	17.81	152	415830	50.00	ug/L	0.03
107) 1,4-Dichlorobenzene-d4a	17.81	152	415830	50.00	ug/kg	0.03

System Monitoring Compounds

39) Dibromofluoromethane	9.84	113	285127	49.05	ug/L	0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 98.10%			
45) 1,2-Dichloroethane-d4	10.32	65	366688	49.65	ug/L	0.03
Spiked Amount 50.000	Range 75 - 121		Recovery = 99.30%			
62) Toluene-d8	12.60	98	792984	44.87	ug/L	0.03
Spiked Amount 50.000	Range 87 - 119		Recovery = 89.74%			
83) 4-Bromofluorobenzene	16.18	95	351499	44.75	ug/L	0.04
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.50%			

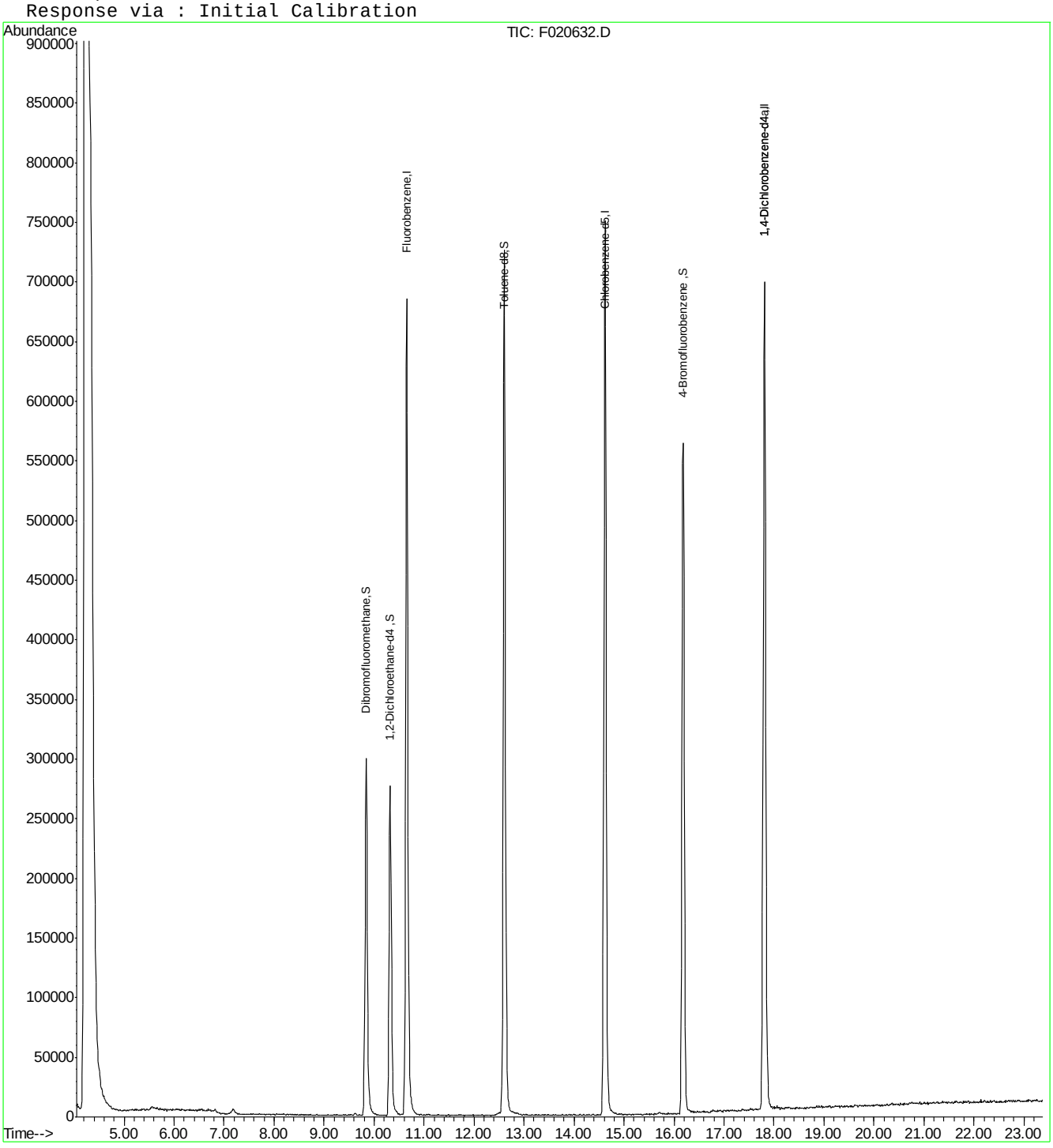
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020632.D Vial: 30
Acq On : 8 Oct 2009 11:43 pm Operator: AnjanaP
Sample : t39169-1 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 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



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020636.D Vial: 34
Acq On : 9 Oct 2009 1:42 am Operator: AnjanaP
Sample : t39169-2 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:20 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	10.66	96	1039027	50.00	ug/L	0.04
61) Chlorobenzene-d5	14.63	117	797108	50.00	ug/L	0.04
80) 1,4-Dichlorobenzene-d4	17.82	152	440474	50.00	ug/L	0.04
107) 1,4-Dichlorobenzene-d4a	17.82	152	440474	50.00	ug/kg	0.04

System Monitoring Compounds

39) Dibromofluoromethane	9.85	113	301403	48.93	ug/L	0.03
Spiked Amount 50.000	Range 79 - 122		Recovery = 97.86%			
45) 1,2-Dichloroethane-d4	10.33	65	387181	49.46	ug/L	0.04
Spiked Amount 50.000	Range 75 - 121		Recovery = 98.92%			
62) Toluene-d8	12.61	98	835373	44.55	ug/L	0.04
Spiked Amount 50.000	Range 87 - 119		Recovery = 89.10%			
83) 4-Bromofluorobenzene	16.18	95	370954	44.59	ug/L	0.04
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.18%			

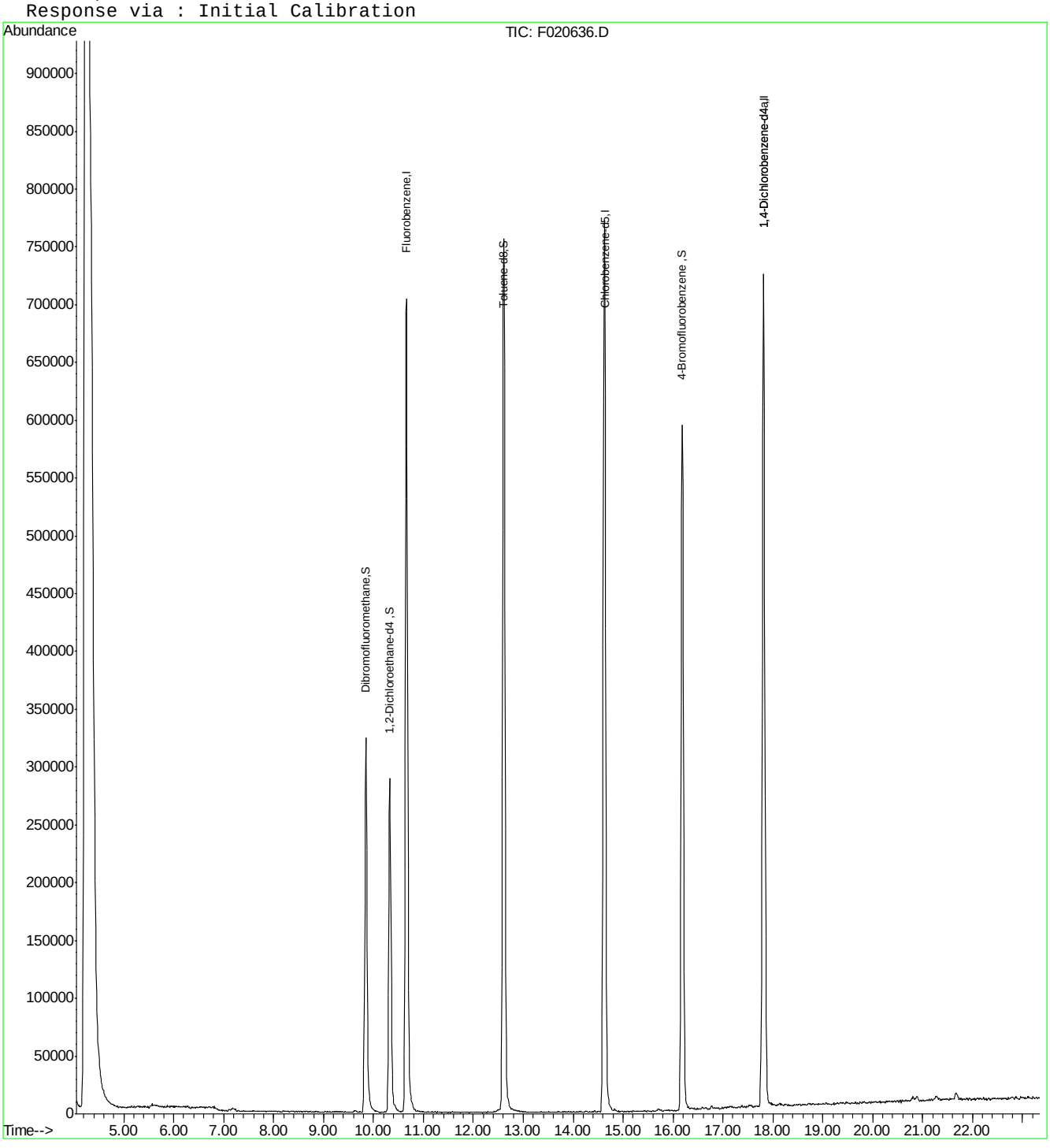
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020636.D Vial: 34
Acq On : 9 Oct 2009 1:42 am Operator: AnjanaP
Sample : t39169-2 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 11:45 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



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020637.D Vial: 35
Acq On : 9 Oct 2009 2:12 am Operator: AnjanaP
Sample : t39169-3 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:45:47 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	10.66	96	1033228	50.00	ug/L	0.04
61) Chlorobenzene-d5	14.63	117	773328	50.00	ug/L	0.04
80) 1,4-Dichlorobenzene-d4	17.82	152	434999	50.00	ug/L	0.04
107) 1,4-Dichlorobenzene-d4a	17.82	152	434999	50.00	ug/kg	0.04

System Monitoring Compounds

39) Dibromofluoromethane	9.85	113	296701	48.43	ug/L	0.03
Spiked Amount 50.000	Range 79 - 122		Recovery = 96.86%			
45) 1,2-Dichloroethane-d4	10.33	65	387881	49.85	ug/L	0.04
Spiked Amount 50.000	Range 75 - 121		Recovery = 99.70%			
62) Toluene-d8	12.61	98	833655	45.79	ug/L	0.04
Spiked Amount 50.000	Range 87 - 119		Recovery = 91.58%			
83) 4-Bromofluorobenzene	16.18	95	370152	45.04	ug/L	0.04
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.08%			

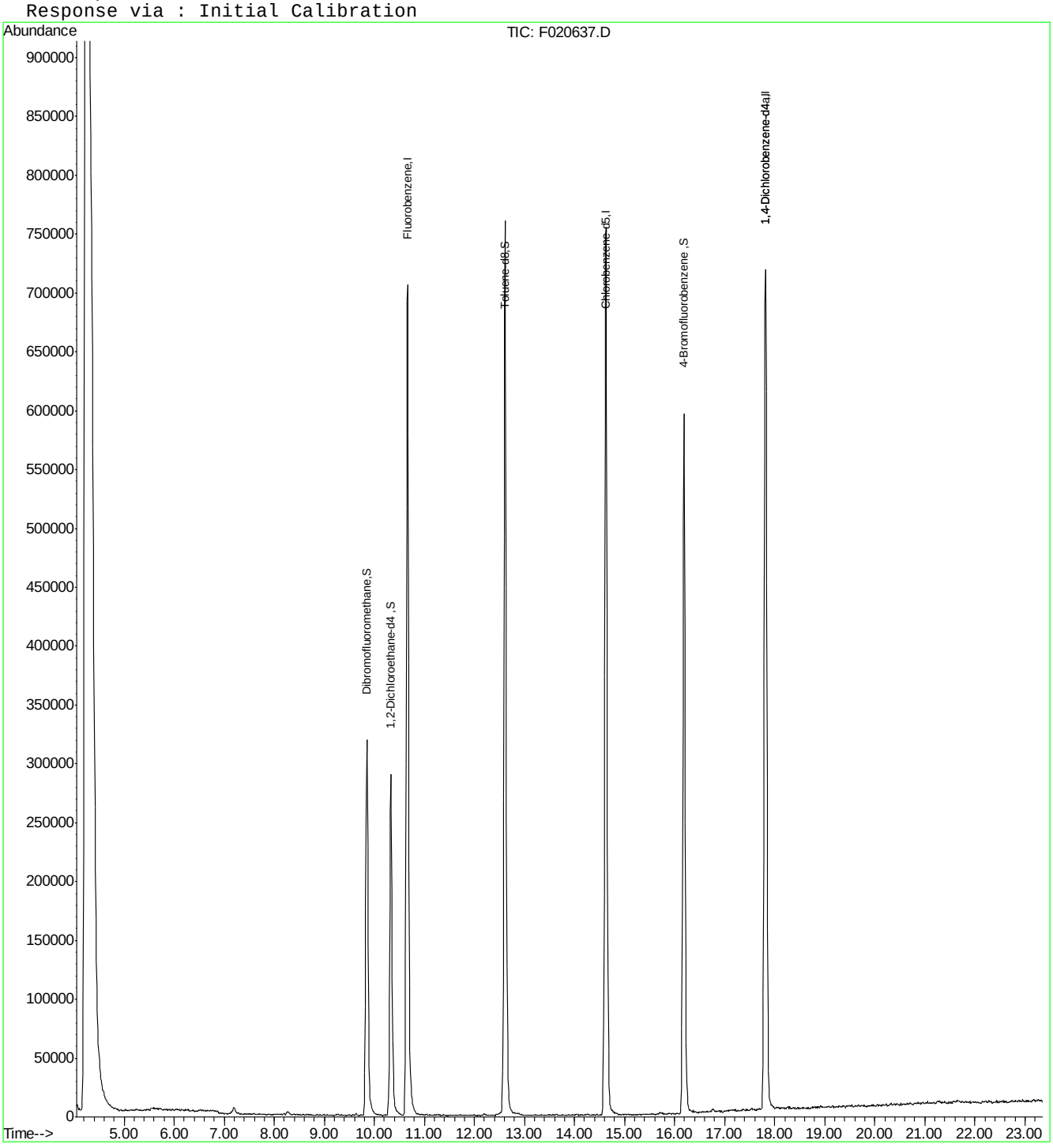
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020637.D VF3547AP9G.M Fri Oct 09 11:53:06 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020637.D Vial: 35
Acq On : 9 Oct 2009 2:12 am Operator: AnjanaP
Sample : t39169-3 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 11:46 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



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020638.D Vial: 36
Acq On : 9 Oct 2009 2:43 am Operator: AnjanaP
Sample : t39169-4 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:23 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	10.66	96	1039223	50.00	ug/L	0.04
61) Chlorobenzene-d5	14.64	117	785005	50.00	ug/L	0.05
80) 1,4-Dichlorobenzene-d4	17.82	152	430358	50.00	ug/L	0.05
107) 1,4-Dichlorobenzene-d4a	17.82	152	430358	50.00	ug/kg	0.05

System Monitoring Compounds

39) Dibromofluoromethane	9.85	113	298041	48.37	ug/L	0.04
Spiked Amount 50.000	Range 79 - 122		Recovery = 96.74%			
45) 1,2-Dichloroethane-d4	10.34	65	369979	47.17	ug/L	0.05
Spiked Amount 50.000	Range 75 - 121		Recovery = 94.34%			
62) Toluene-d8	12.62	98	826796	44.77	ug/L	0.05
Spiked Amount 50.000	Range 87 - 119		Recovery = 89.54%			
83) 4-Bromofluorobenzene	16.19	95	365211	44.92	ug/L	0.05
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.84%			

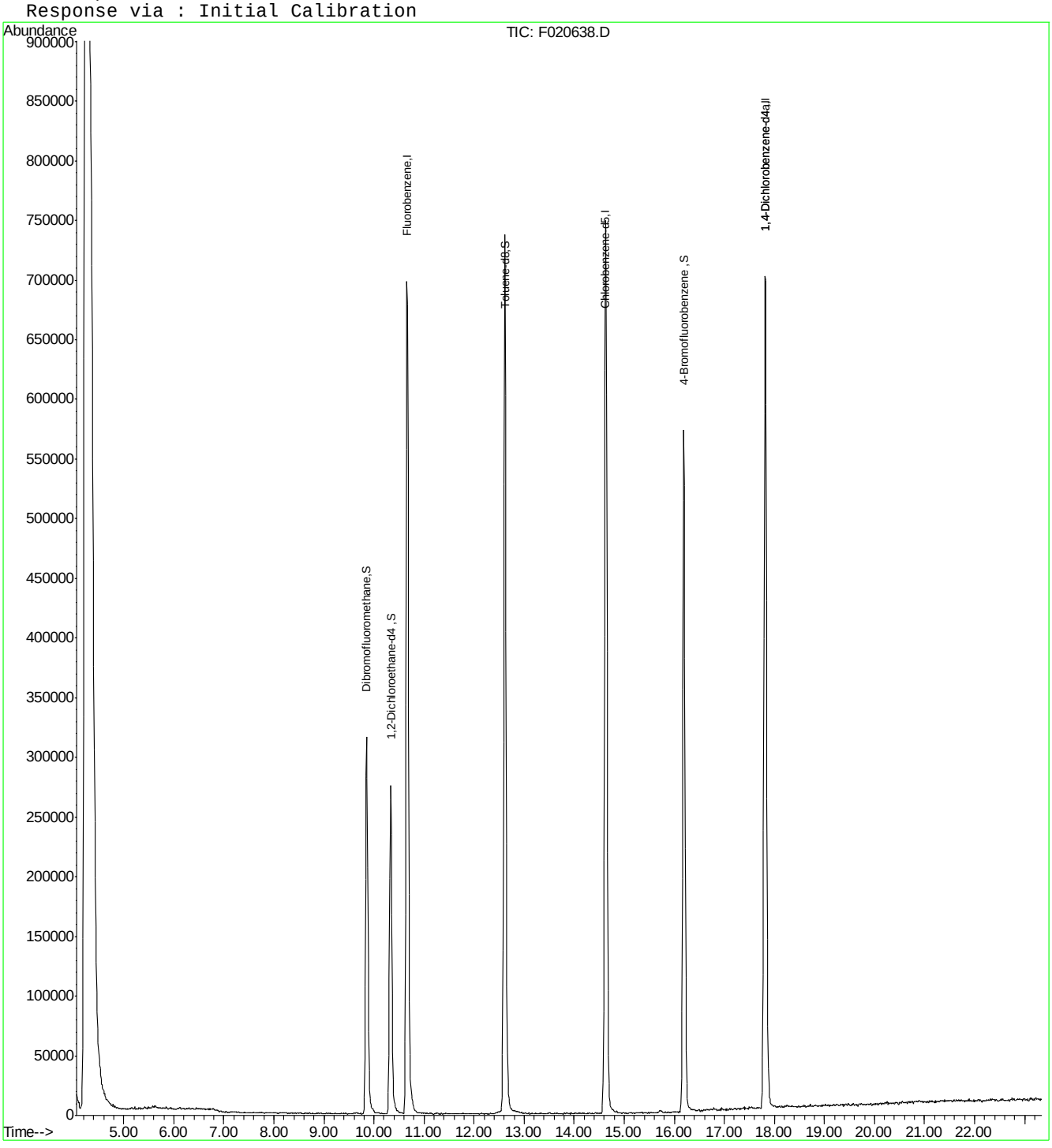
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020638.D Vial: 36
Acq On : 9 Oct 2009 2:43 am Operator: AnjanaP
Sample : t39169-4 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 11:46 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



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020639.D Vial: 37
Acq On : 9 Oct 2009 3:13 am Operator: AnjanaP
Sample : t39169-5 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:24 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	10.66	96	1018214	50.00	ug/L	0.04
61) Chlorobenzene-d5	14.63	117	769449	50.00	ug/L	0.04
80) 1,4-Dichlorobenzene-d4	17.82	152	432871	50.00	ug/L	0.04
107) 1,4-Dichlorobenzene-d4a	17.82	152	432871	50.00	ug/kg	0.04

System Monitoring Compounds

39) Dibromofluoromethane	9.86	113	294177	48.73	ug/L	0.04
Spiked Amount 50.000	Range 79 - 122		Recovery = 97.46%			
45) 1,2-Dichloroethane-d4	10.33	65	383329	49.99	ug/L	0.04
Spiked Amount 50.000	Range 75 - 121		Recovery = 99.98%			
62) Toluene-d8	12.61	98	815044	45.02	ug/L	0.04
Spiked Amount 50.000	Range 87 - 119		Recovery = 90.04%			
83) 4-Bromofluorobenzene	16.19	95	363877	44.51	ug/L	0.04
Spiked Amount 50.000	Range 80 - 133		Recovery = 89.02%			

Target Compounds Qvalue

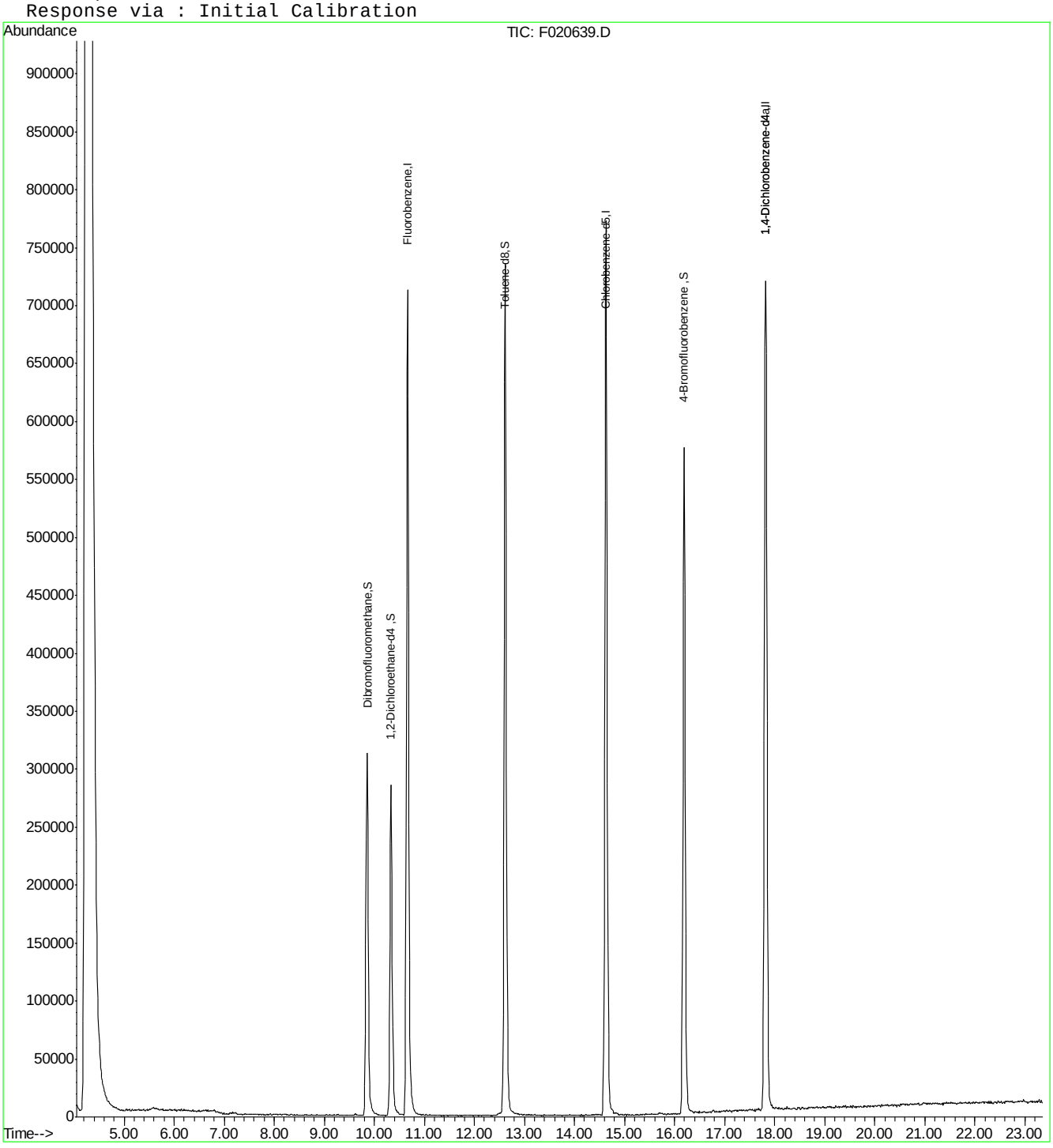
(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020639.D VF3547AP9G.M Fri Oct 09 11:53:10 2009

ACCUTEST Laboratories T39169

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020639.D Vial: 37
Acq On : 9 Oct 2009 3:13 am Operator: AnjanaP
Sample : t39169-5 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 11:47 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



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020640.D Vial: 38
Acq On : 9 Oct 2009 3:43 am Operator: AnjanaP
Sample : t39169-6 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:24 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	10.66	96	1005725	50.00	ug/L	0.04
61) Chlorobenzene-d5	14.63	117	766004	50.00	ug/L	0.04
80) 1,4-Dichlorobenzene-d4	17.82	152	426542	50.00	ug/L	0.04
107) 1,4-Dichlorobenzene-d4a	17.82	152	426542	50.00	ug/kg	0.04

System Monitoring Compounds

39) Dibromofluoromethane	9.85	113	293567	49.23	ug/L	0.03
Spiked Amount 50.000	Range 79 - 122		Recovery = 98.46%			
45) 1,2-Dichloroethane-d4	10.33	65	381328	50.37	ug/L	0.04
Spiked Amount 50.000	Range 75 - 121		Recovery = 100.74%			
62) Toluene-d8	12.61	98	807442	44.80	ug/L	0.04
Spiked Amount 50.000	Range 87 - 119		Recovery = 89.60%			
83) 4-Bromofluorobenzene	16.19	95	364077	45.18	ug/L	0.04
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.36%			

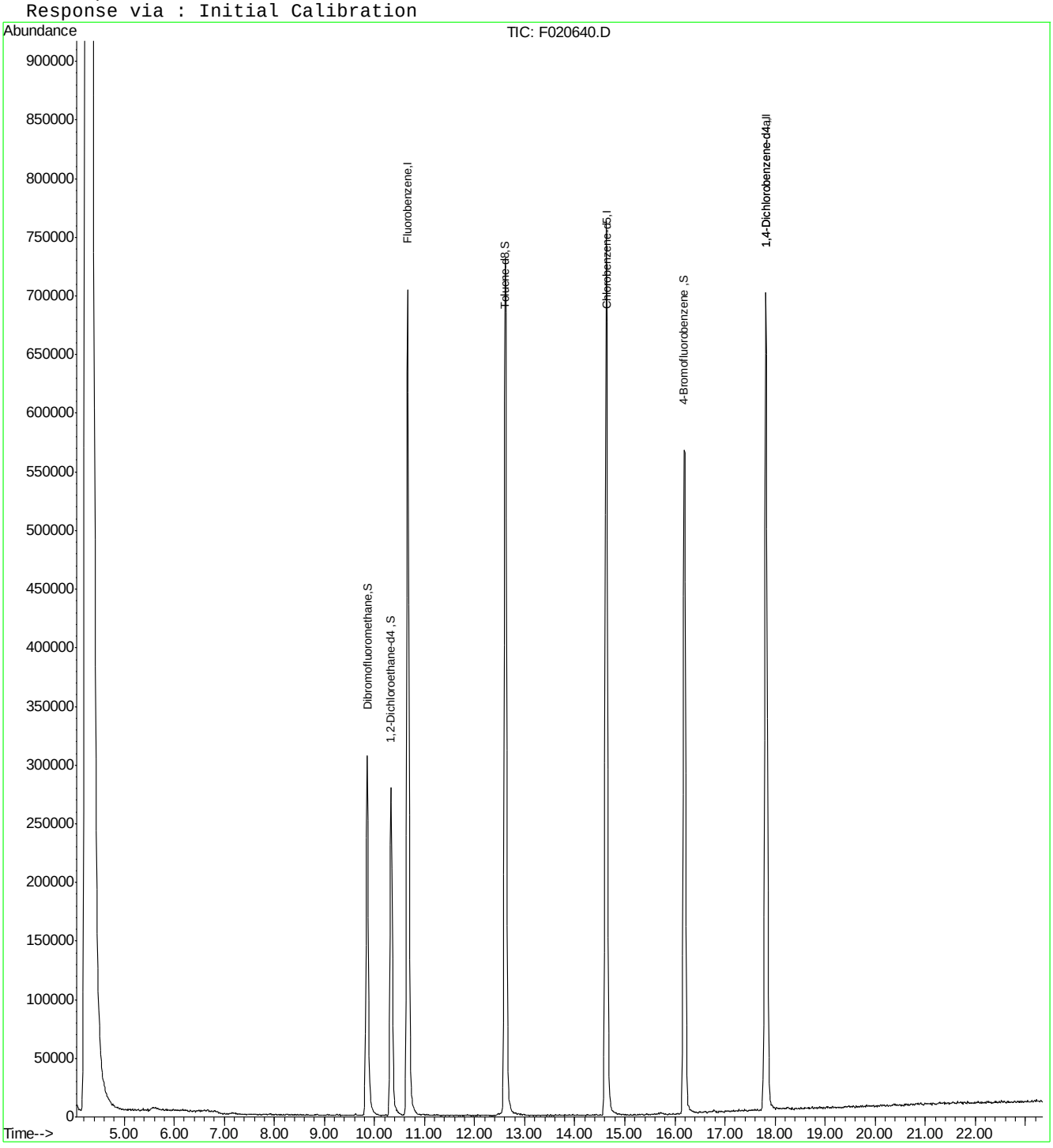
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020640.D Vial: 38
Acq On : 9 Oct 2009 3:43 am Operator: AnjanaP
Sample : t39169-6 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 11:47 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



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020630.D Vial: 28
Acq On : 8 Oct 2009 10:42 pm Operator: AnjanaP
Sample : t39169-7 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:17 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	10.65	96	1012111	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.62	117	751235	50.00	ug/L	0.03
80) 1,4-Dichlorobenzene-d4	17.81	152	421765	50.00	ug/L	0.03
107) 1,4-Dichlorobenzene-d4a	17.81	152	421765	50.00	ug/kg	0.03

System Monitoring Compounds

39) Dibromofluoromethane	9.84	113	285137	47.52	ug/L	0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 95.04%			
45) 1,2-Dichloroethane-d4	10.32	65	367903	48.20	ug/L	0.03
Spiked Amount 50.000	Range 75 - 121		Recovery = 96.40%			
62) Toluene-d8	12.60	98	799684	45.23	ug/L	0.03
Spiked Amount 50.000	Range 87 - 119		Recovery = 90.46%			
83) 4-Bromofluorobenzene	16.18	95	359447	45.11	ug/L	0.03
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.22%			

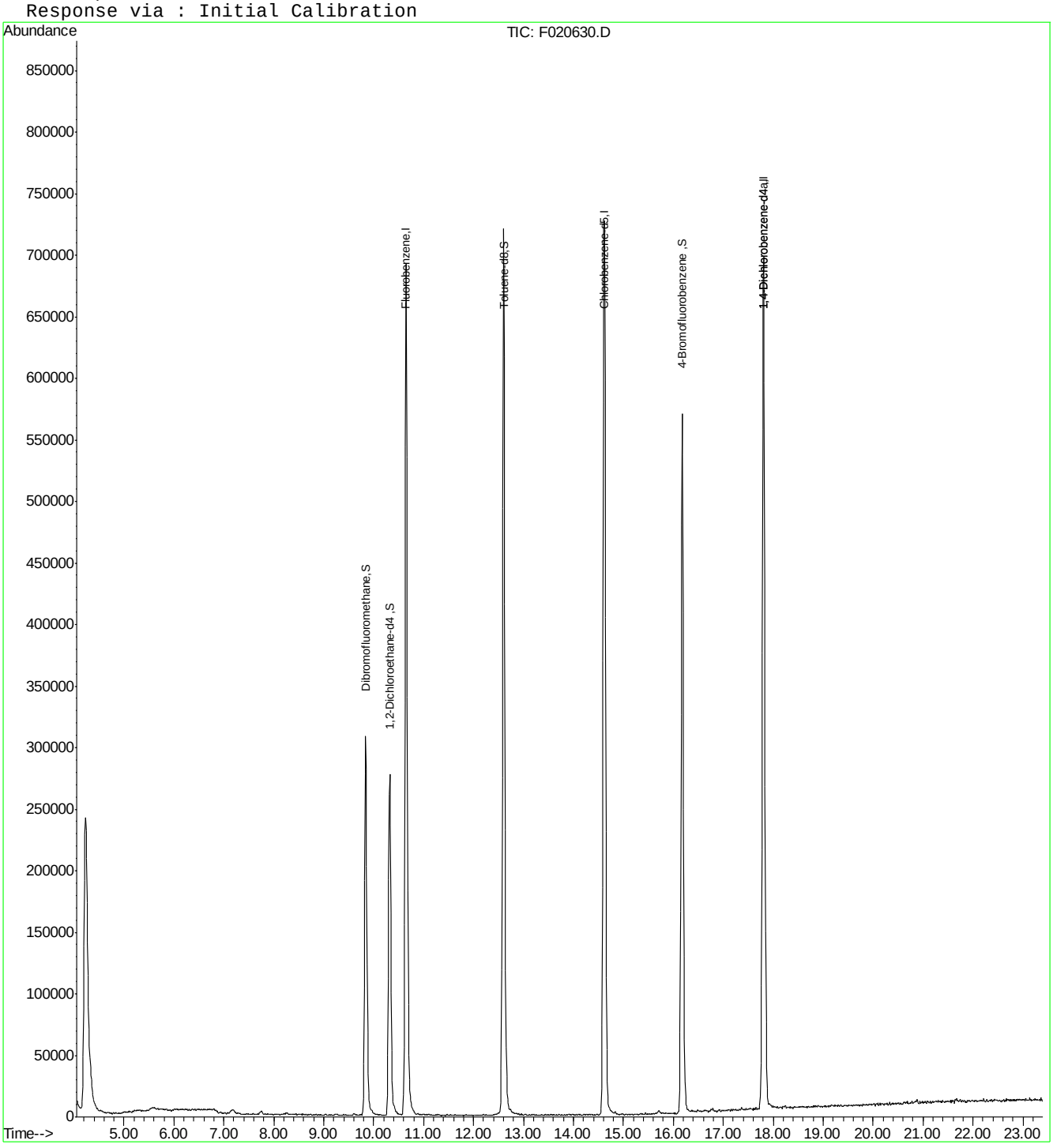
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020630.D VF3547AP9G.M Fri Oct 09 11:52:58 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020630.D Vial: 28
Acq On : 8 Oct 2009 10:42 pm Operator: AnjanaP
Sample : t39169-7 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 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



ACCUTEST Laboratories T39169

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020629.D Vial: 27
Acq On : 8 Oct 2009 10:12 pm Operator: AnjanaP
Sample : mb Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:15 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	10.64	96	1028568	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	768490	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.80	152	425275	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	425275	50.00	ug/kg	0.02

System Monitoring Compounds

39) Dibromofluoromethane	9.84	113	293074	48.06	ug/L	0.02
Spiked Amount 50.000	Range 79 - 122		Recovery = 96.12%			
45) 1,2-Dichloroethane-d4	10.32	65	372620	48.03	ug/L	0.03
Spiked Amount 50.000	Range 75 - 121		Recovery = 96.06%			
62) Toluene-d8	12.60	98	839003	46.36	ug/L	0.03
Spiked Amount 50.000	Range 87 - 119		Recovery = 92.72%			
83) 4-Bromofluorobenzene	16.17	95	363103	45.19	ug/L	0.03
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.38%			

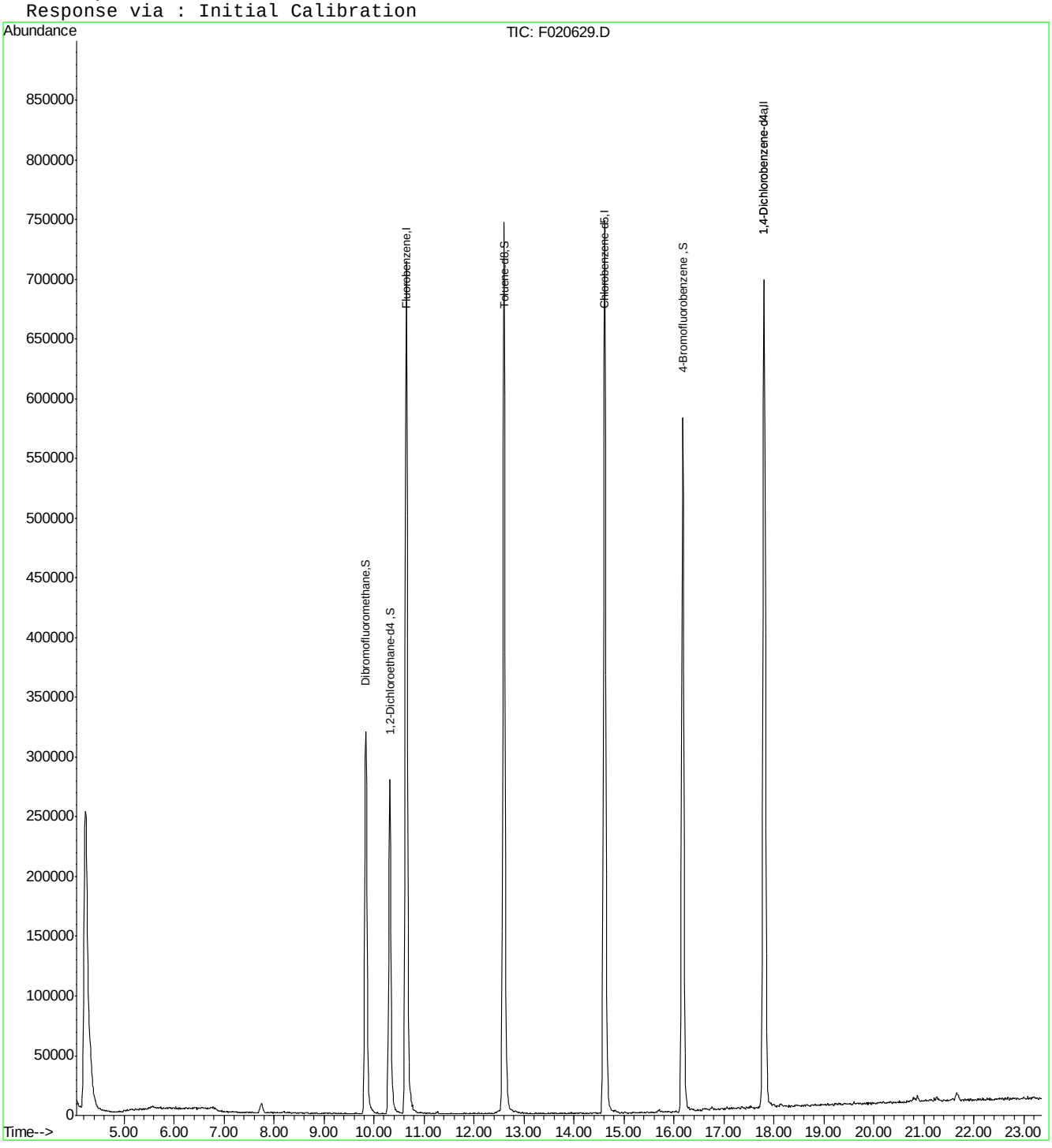
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020629.D Vial: 27
Acq On : 8 Oct 2009 10:12 pm Operator: AnjanaP
Sample : mb Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 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



ACCUTEST Laboratories T39169

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/09/09 14:26

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020627.D Vial: 25
Acq On : 8 Oct 2009 9:12 pm Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:15 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	10.65	96	1002685	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	748924	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.80	152	426103	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	426103	50.00	ug/kg	0.02

System Monitoring Compounds

39) Dibromofluoromethane	9.83	113	287166	48.30	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 96.60%			
45) 1,2-Dichloroethane-d4	10.31	65	367024	48.55	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 97.10%			
62) Toluene-d8	12.60	98	801866	45.49	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 90.98%			
83) 4-Bromofluorobenzene	16.17	95	355573	44.19	ug/L	0.02
Spiked Amount 50.000	Range 80 - 133		Recovery = 88.38%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.65	85	121753	21.62	ug/L	95
3) Chloromethane	5.00	50	106064	20.30	ug/L	98
4) Vinyl Chloride	5.22	62	107680	25.03	ug/L	93
5) Bromomethane	5.83	94	96932	29.68	ug/L	96
6) Chloroethane	5.97	64	65339	24.40	ug/L	98
7) Trichlorofluoromethane	6.34	101	198779	22.84	ug/L	99
8) Acrolein	8.18	56	54022	124.30	ug/L	99
9) Ethyl Ether	6.62	59	97003	26.86	ug/L	97
10) 1,1-Dichloroethene	7.07	61	202724	28.85	ug/L	99
11) Freon 113	6.97	101	133712	29.60	ug/L	97
12) Acetone	7.12	43	166844	123.47	ug/L	100
13) Iodomethane	7.38	142	238186	30.58	ug/L	98
14) Methyl acetate	7.47	43	336486	117.39	ug/L	97
15) Allyl Chloride	7.53	41	137659	25.90	uL/L	87
16) Carbon Disulfide	7.51	76	360903	26.07	ug/L	94
17) Acetonitrile	7.53	41	66200m	71.23	uL/L	
18) Methylene Chloride	7.75	49	161964	27.26	ug/L	95
19) Tert Butyl Alcohol	7.68	59	98486	235.41	ug/L	96
20) trans-1,2-Dichloroethene	8.01	61	182931	27.93	ug/L	96
21) Acrylonitrile	8.06	53	132623	113.11	ug/L	97
22) Methyl Tert Butyl Ether	7.90	73	376115	25.35	ug/L	99
23) Hexane	8.18	57	90196	24.92	ug/L	89
24) 1,1-Dichloroethane	8.57	63	221211	26.73	ug/L	98
25) Vinyl acetate	8.48	43	1268180	122.09	ug/L	98
26) Di-isopropyl ether	8.40	45	396939	24.52	ug/L	98
27) Chloroprene	8.64	53	217117	28.31	uL/L	97
28) Ethyl tert-butyl ether	8.85	59	405504	25.49	ug/L	98
29) 2,2-Dichloropropane	9.27	77	157936	23.12	ug/L	99
30) cis-1,2-Dichloroethene	9.29	96	144154	25.32	ug/L	91
31) Ethyl Acetate	9.17	43	699725	124.84	uL/L	98
32) 2-Butanone	9.17	43	699725	124.84	ug/L	100
33) Propionitrile	9.42	54	100377	234.11	uL/L	98
34) Methacrylonitrile	9.57	41	630633	167.45	uL/L	89
35) Bromochloromethane	9.61	128	75940	26.94	ug/L	91

(#) = qualifier out of range (m) = manual integration
F020627.D VF3547AP9G.M Fri Oct 09 11:52:25 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020627.D Vial: 25
Acq On : 8 Oct 2009 9:12 pm Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:15 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

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Chloroform	9.62	83	285642	26.05	ug/L		98
37)	Tetrahydrofuran	9.18	42	44275	17.06	ug/L		96
38)	1,1,1-Trichloroethane	9.88	97	243530	25.76	ug/L		98
40)	Cyclohexane	9.90	56	153708	27.02	ug/L		94
41)	Isobutyl Alcohol	9.98	43	58990	845.18	uL/L		82
42)	n-Butyl Alcohol	10.78	56	36128	863.80	ug/L		79
43)	1,1-Dichloropropene	10.06	75	192585	27.35	ug/L		93
44)	Carbon Tetrachloride	10.06	117	224358	27.24	ug/L		96
46)	Benzene	10.33	78	438768	26.67	ug/L		99
47)	1,2-Dichloroethane	10.41	62	236984	24.82	ug/L		99
48)	tert-amyl methyl ether	10.27	73	379150	25.31	ug/L		98
49)	Trichloroethene	11.08	95	151409	26.89	ug/L		98
50)	Methylcyclohexane	11.28	83	138572	26.14	ug/L		96
51)	Methyl Methacrylate	11.34	41	103828	23.63	uL/L		95
52)	1,2-Dichloropropane	11.44	63	104315	25.76	ug/L		92
53)	Dibromomethane	11.63	93	98575	25.28	ug/L		97
54)	1,4-Dioxane	11.51	88	19267	473.98	ug/L		98
55)	Bromodichloromethane	11.74	83	221643	23.42	ug/L		98
56)	2-Nitropropane	12.07	41	235454	117.88	ug/L		98
57)	2-Chloroethyl vinyl ether	11.99	63	302276	145.05	ug/L		98
58)	1-Bromo-2-Chloroethane	12.23	63	142312	24.07	uL/L		100
59)	4-Methyl-2-pentanone	12.35	43	477626	122.08	ug/L		99
60)	cis-1,3-Dichloropropene	12.28	75	220772	24.97	ug/L		93
63)	Toluene	12.69	91	505210	25.15	ug/L		99
64)	Ethyl Methacrylate	12.86	69	139689	21.81	uL/:		97
65)	trans-1,3-Dichloropropene	12.99	75	219073	25.14	ug/L		96
66)	1,1,2-Trichloroethane	13.28	83	89657	23.84	ug/L		96
67)	Tetrachloroethene	13.41	166	162486	25.73	ug/L		97
68)	2-hexanone	13.42	43	328043	113.86	ug/L		98
69)	1,3-Dichloropropane	13.52	76	202822	23.99	ug/L		92
70)	Dibromochloromethane	13.84	129	157292	24.27	ug/L		99
71)	1,2-Dibromoethane	14.07	107	127749	24.19	ug/L		97
72)	1-Chlorohexane	14.41	91	177256	25.17	ug/L		89
73)	Chlorobenzene	14.65	112	335099	25.14	ug/L		96
74)	1,1,1,2-Tetrachloroethane	14.73	131	141413	24.53	ug/L		99
75)	Ethylbenzene	14.67	91	610290	24.40	ug/L		99
76)	m,p-Xylene	14.82	91	956241	49.68	ug/L		98
77)	o-Xylene	15.40	91	496469	24.80	ug/L		98
78)	Styrene	15.42	104	339191	23.82	ug/L		97
79)	Bromoform	15.82	173	104384	22.63	ug/L		98
81)	Isopropylbenzene	15.83	105	486023	25.19	ug/L		99
82)	Cyclohexanone	16.16	55	50611	310.66	ug/L	#	78
84)	Bromobenzene	16.43	156	169414	24.56	ug/L		98
85)	1,1,2,2-Tetrachloroethane	16.31	83	116459	22.09	ug/L		98
86)	Trans-1,4-Dichloro-2-Buten	16.38	53	37848	19.39	ug/L	#	91
87)	1,2,3-Trichloropropane	16.43	110	41825	20.81	ug/L		95
88)	n-Propylbenzene	16.38	91	622232	23.53	ug/L		99
89)	2-Chlorotoluene	16.62	91	458875	23.35	ug/L		98
90)	4-Chlorotoluene	16.77	91	431359	23.49	ug/L		96

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020627.D Vial: 25
Acq On : 8 Oct 2009 9:12 pm Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:15 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

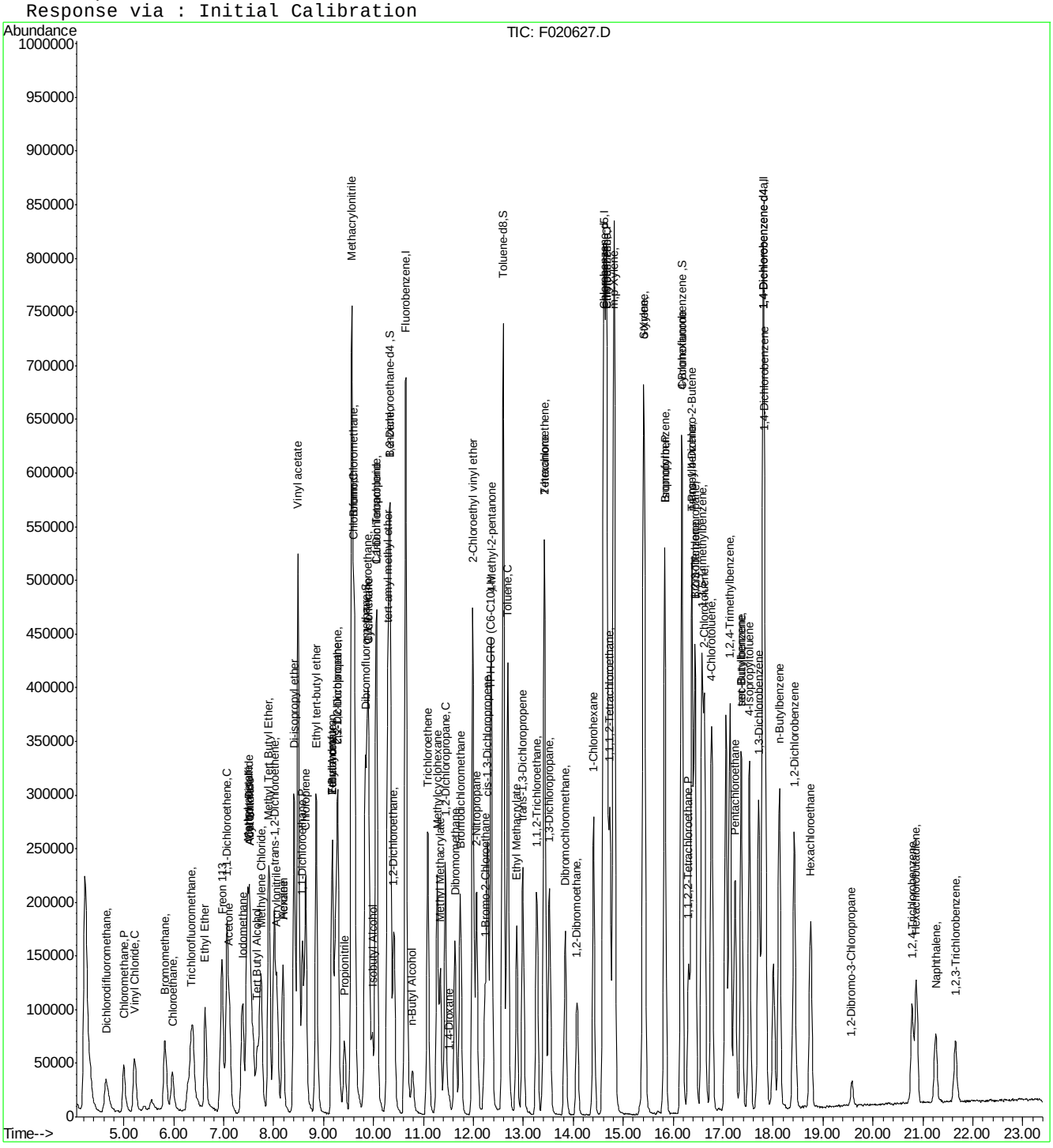
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.57	105	415243	23.73	ug/L	100
92)	Pentachloroethane	17.24	167	90892	20.43	uL/L	99
93)	sec-Butylbenzene	17.36	105	449563	23.30	ug/L	99
94)	1,3-Dichlorobenzene	17.71	146	260360	24.17	ug/L	96
95)	4-Isopropyltoluene	17.53	119	361776	23.06	ug/L	100
96)	1,4-Dichlorobenzene	17.84	146	277019	24.96	ug/L	98
97)	tert-Butylbenzene	17.37	91	82180	24.33	ug/L	88
98)	n-Butylbenzene	18.13	91	335287	22.07	ug/L	99
99)	1,2-Dichlorobenzene	18.42	146	235981	23.34	ug/L	96
100)	1,2,4-Trimethylbenzene	17.13	105	429370	22.96	ug/L	98
101)	Hexachloroethane	18.75	119	80028	21.53	uL/L	97
102)	1,2-Dibromo-3-Chloropropan	19.56	75	14412	14.38	ug/L	92
103)	1,2,4-Trichlorobenzene	20.78	180	69711	12.37	ug/L	97
104)	Hexachlorobutadiene	20.87	225	50836	20.55	ug/L	97
105)	Naphthalene	21.26	128	128032	16.15	ug/L	99
106)	1,2,3-Trichlorobenzene	21.65	180	49262	16.19	ug/L	99
108)	TPH-GRO (C6-C10)	12.34	TIC	48238232m	1866.00	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020627.D VF3547AP9G.M Fri Oct 09 11:52:25 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020627.D Vial: 25
Acq On : 8 Oct 2009 9:12 pm Operator: AnjanaP
Sample : bs Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 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



ACCUTEST Laboratories T39169

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/09/09 14:26

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020633.D Vial: 31
Acq On : 9 Oct 2009 12:13 am Operator: AnjanaP
Sample : t39169-1ms Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:19 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	10.65	96	989057	50.00	ug/L	0.03
61) Chlorobenzene-d5	14.62	117	742850	50.00	ug/L	0.03
80) 1,4-Dichlorobenzene-d4	17.80	152	417703	50.00	ug/L	0.03
107) 1,4-Dichlorobenzene-d4a	17.80	152	417703	50.00	ug/kg	0.03

System Monitoring Compounds

39) Dibromofluoromethane	9.84	113	281998	48.09	ug/L	0.03
Spiked Amount 50.000	Range 79 - 122		Recovery = 96.18%			
45) 1,2-Dichloroethane-d4	10.32	65	378824	50.90	ug/L	0.04
Spiked Amount 50.000	Range 75 - 121		Recovery = 101.80%			
62) Toluene-d8	12.61	98	786780	45.01	ug/L	0.04
Spiked Amount 50.000	Range 87 - 119		Recovery = 90.02%			
83) 4-Bromofluorobenzene	16.18	95	358609	45.44	ug/L	0.04
Spiked Amount 50.000	Range 80 - 133		Recovery = 90.88%			

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	4.66	85	131051	23.59	ug/L	95
3) Chloromethane	5.01	50	112906	22.01	ug/L	98
4) Vinyl Chloride	5.24	62	113790	26.90	ug/L	99
5) Bromomethane	5.84	94	108502	33.94	ug/L	97
6) Chloroethane	5.99	64	74153	28.08	ug/L	97
7) Trichlorofluoromethane	6.35	101	228485	26.62	ug/L	99
8) Acrolein	8.20	56	50114	116.89	ug/L	94
9) Ethyl Ether	6.64	59	98473	27.64	ug/L	97
10) 1,1-Dichloroethene	7.08	61	197458	28.49	ug/L	98
11) Freon 113	6.98	101	123635	27.75	ug/L	94
12) Acetone	7.13	43	160803	120.39	ug/L	93
13) Iodomethane	7.39	142	233392	30.38	ug/L	97
14) Methyl acetate	7.48	43	295455	104.73	ug/L	97
15) Allyl Chloride	7.53	41	153690	29.72	uL/L	93
16) Carbon Disulfide	7.53	76	350052	25.64	ug/L	97
17) Acetonitrile	7.53	41	82850m	91.95	uL/L	
18) Methylene Chloride	7.76	49	148005	25.21	ug/L	98
19) Tert Butyl Alcohol	7.69	59	98361	238.35	ug/L	90
20) trans-1,2-Dichloroethene	8.02	61	177783	27.52	ug/L	94
21) Acrylonitrile	8.08	53	131891	114.04	ug/L	96
22) Methyl Tert Butyl Ether	7.91	73	375065	25.62	ug/L	99
23) Hexane	8.20	57	82188	23.02	ug/L	93
24) 1,1-Dichloroethane	8.58	63	215586	26.41	ug/L	98
25) Vinyl acetate	8.49	43	1091259	106.50	ug/L	99
26) Di-isopropyl ether	8.42	45	389147	24.37	ug/L	99
27) Chloroprene	8.65	53	223597	29.55	uL/L	98
28) Ethyl tert-butyl ether	8.86	59	399137	25.44	ug/L	99
29) 2,2-Dichloropropane	9.27	77	145859	21.65	ug/L	99
30) cis-1,2-Dichloroethene	9.30	96	143947	25.63	ug/L	90
31) Ethyl Acetate	9.18	43	659128	119.22	uL/L	98
32) 2-Butanone	9.18	43	659128	119.22	ug/L	100
33) Propionitrile	9.43	54	108255	255.96	uL/L	99
34) Methacrylonitrile	9.58	41	677793	182.45	uL/L	91
35) Bromochloromethane	9.62	128	75667	27.22	ug/L	91

(#) = qualifier out of range (m) = manual integration
F020633.D VF3547AP9G.M Fri Oct 09 11:52:26 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020633.D Vial: 31
Acq On : 9 Oct 2009 12:13 am Operator: AnjanaP
Sample : t39169-1ms Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:19 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	9.63	83	290350	26.84 ug/L		99
37)	Tetrahydrofuran	9.18	42	62108	24.92 ug/L		91
38)	1,1,1-Trichloroethane	9.89	97	245631	26.34 ug/L		97
40)	Cyclohexane	9.91	56	148140	26.40 ug/L		97
41)	Isobutyl Alcohol	9.99	43	60986	884.63 uL/L		87
42)	n-Butyl Alcohol	10.79	56	36345	880.12 ug/L		90
43)	1,1-Dichloropropene	10.06	75	189727	27.31 ug/L		97
44)	Carbon Tetrachloride	10.07	117	221532	27.27 ug/L		98
46)	Benzene	10.34	78	450095	27.73 ug/L		99
47)	1,2-Dichloroethane	10.41	62	242852	25.79 ug/L		99
48)	tert-amyl methyl ether	10.29	73	392704	26.57 ug/L		97
49)	Trichloroethene	11.09	95	146258	26.31 ug/L		96
50)	Methylcyclohexane	11.28	83	128670	24.61 ug/L		98
51)	Methyl Methacrylate	11.35	41	108511	25.03 uL/L		94
52)	1,2-Dichloropropane	11.45	63	101381	25.39 ug/L		90
53)	Dibromomethane	11.63	93	100390	26.10 ug/L		97
54)	1,4-Dioxane	11.53	88	20049	500.01 ug/L		87
55)	Bromodichloromethane	11.74	83	222949	23.88 ug/L		98
56)	2-Nitropropane	12.07	41	240561	122.09 ug/L		95
57)	2-Chloroethyl vinyl ether	12.23	63	142630	69.38 ug/L	#	13
58)	1-Bromo-2-Chloroethane	12.23	63	141363	24.23 uL/L		99
59)	4-Methyl-2-pentanone	12.36	43	496656	128.70 ug/L		98
60)	cis-1,3-Dichloropropene	12.29	75	216659	24.84 ug/L		93
63)	Toluene	12.70	91	512339	25.72 ug/L		98
64)	Ethyl Methacrylate	12.87	69	146975	23.14 uL/:		99
65)	trans-1,3-Dichloropropene	13.00	75	220622	25.53 ug/L		94
66)	1,1,2-Trichloroethane	13.28	83	93469	25.06 ug/L		96
67)	Tetrachloroethene	13.42	166	159439	25.46 ug/L		98
68)	2-hexanone	13.43	43	336833	117.87 ug/L		94
69)	1,3-Dichloropropane	13.53	76	203429	24.26 ug/L		91
70)	Dibromochloromethane	13.85	129	157806	24.54 ug/L		99
71)	1,2-Dibromoethane	14.08	107	130319	24.87 ug/L		99
72)	1-Chlorohexane	14.42	91	166833	23.88 ug/L		93
73)	Chlorobenzene	14.66	112	326731	24.71 ug/L		96
74)	1,1,1,2-Tetrachloroethane	14.74	131	144493	25.27 ug/L		96
75)	Ethylbenzene	14.67	91	606360	24.44 ug/L		98
76)	m,p-Xylene	14.82	91	954579	50.00 ug/L		98
77)	o-Xylene	15.41	91	497732	25.06 ug/L		99
78)	Styrene	15.43	104	333014	23.58 ug/L		95
79)	Bromoform	15.84	173	105941	23.16 ug/L		98
81)	Isopropylbenzene	15.84	105	471768	24.95 ug/L		97
82)	Cyclohexanone	16.17	55	13161	84.49 ug/L	#	24
84)	Bromobenzene	16.45	156	167358	24.75 ug/L		100
85)	1,1,2,2-Tetrachloroethane	16.32	83	117127	22.66 ug/L		98
86)	Trans-1,4-Dichloro-2-Buten	16.39	53	40122	20.96 ug/L	#	95
87)	1,2,3-Trichloropropane	16.45	110	42647	21.64 ug/L		95
88)	n-Propylbenzene	16.38	91	609776	23.52 ug/L		99
89)	2-Chlorotoluene	16.63	91	456203	23.68 ug/L		97
90)	4-Chlorotoluene	16.78	91	427867	23.77 ug/L		97

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020633.D Vial: 31
Acq On : 9 Oct 2009 12:13 am Operator: AnjanaP
Sample : t39169-1ms Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:19 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

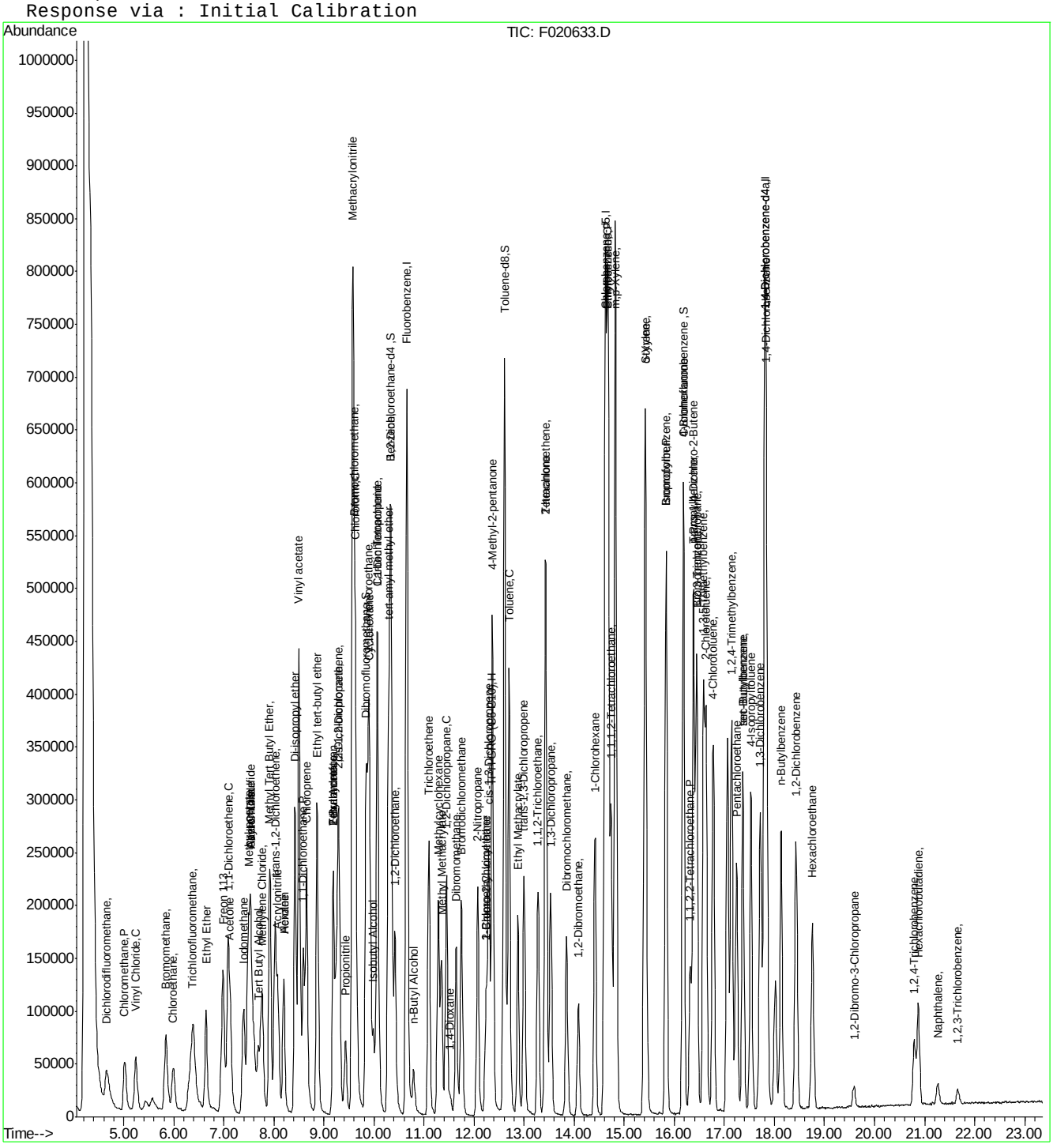
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.58	105	400766	23.36	ug/L	99
92)	Pentachloroethane	17.25	167	96424	22.11	uL/L	99
93)	sec-Butylbenzene	17.37	105	428418	22.65	ug/L	99
94)	1,3-Dichlorobenzene	17.71	146	251477	23.81	ug/L	99
95)	4-Isopropyltoluene	17.53	119	343078	22.31	ug/L	100
96)	1,4-Dichlorobenzene	17.84	146	264160	24.28	ug/L	98
97)	tert-Butylbenzene	17.37	91	76745	23.13	ug/L	91
98)	n-Butylbenzene	18.14	91	307080	20.62	ug/L	100
99)	1,2-Dichlorobenzene	18.43	146	230181	23.23	ug/L	96
100)	1,2,4-Trimethylbenzene	17.14	105	417926	22.79	ug/L	98
101)	Hexachloroethane	18.76	119	77481	21.26	uL/L	99
102)	1,2-Dibromo-3-Chloropropan	19.58	75	12909	12.85	ug/L	85
103)	1,2,4-Trichlorobenzene	20.79	180	47180	7.87	ug/L	98
104)	Hexachlorobutadiene	20.87	225	41951	16.69	ug/L	97
105)	Naphthalene	21.27	128	38509	3.51	ug/L	100
106)	1,2,3-Trichlorobenzene	21.66	180	12148	1.98	ug/L	96
108)	TPH-GRO (C6-C10)	12.34	TIC	45690525m	1829.02	ug/kg	

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020633.D Vial: 31
Acq On : 9 Oct 2009 12:13 am Operator: AnjanaP
Sample : t39169-1ms Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 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



Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/09/09 14:26

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020634.D Vial: 32
Acq On : 9 Oct 2009 12:43 am Operator: AnjanaP
Sample : t39169-1msd Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:19 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	10.66	96	1023042	50.00	ug/L	0.04
61) Chlorobenzene-d5	14.63	117	777316	50.00	ug/L	0.04
80) 1,4-Dichlorobenzene-d4	17.81	152	442321	50.00	ug/L	0.04
107) 1,4-Dichlorobenzene-d4a	17.81	152	442321	50.00	ug/kg	0.04

System Monitoring Compounds						
39) Dibromofluoromethane	9.84	113	293516	48.39	ug/L	0.03
Spiked Amount 50.000	Range 79 - 122		Recovery = 96.78%			
45) 1,2-Dichloroethane-d4	10.33	65	388398	50.43	ug/L	0.04
Spiked Amount 50.000	Range 75 - 121		Recovery = 100.86%			
62) Toluene-d8	12.61	98	826305	45.17	ug/L	0.04
Spiked Amount 50.000	Range 87 - 119		Recovery = 90.34%			
83) 4-Bromofluorobenzene	16.18	95	371469	44.46	ug/L	0.04
Spiked Amount 50.000	Range 80 - 133		Recovery = 88.92%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.66	85	131317	22.86	ug/L	92
3) Chloromethane	5.01	50	116152	21.88	ug/L	99
4) Vinyl Chloride	5.24	62	120512	27.57	ug/L	93
5) Bromomethane	5.84	94	113509	34.35	ug/L	99
6) Chloroethane	6.00	64	78762	28.83	ug/L	98
7) Trichlorofluoromethane	6.36	101	226904	25.56	ug/L	99
8) Acrolein	8.19	56	51210	115.48	ug/L	99
9) Ethyl Ether	6.65	59	104588	28.38	ug/L	95
10) 1,1-Dichloroethene	7.09	61	209465	29.22	ug/L	98
11) Freon 113	6.98	101	135840	29.47	ug/L	93
12) Acetone	7.13	43	170298	123.52	ug/L	96
13) Iodomethane	7.39	142	244011	30.70	ug/L	96
14) Methyl acetate	7.48	43	316644	108.43	ug/L	99
15) Allyl Chloride	7.54	41	156987	29.31	uL/L	89
16) Carbon Disulfide	7.53	76	367430	26.01	ug/L	94
17) Acetonitrile	7.54	41	65267m	68.56	uL/L	
18) Methylene Chloride	7.76	49	153327	25.25	ug/L	98
19) Tert Butyl Alcohol	7.69	59	104941	245.85	ug/L	95
20) trans-1,2-Dichloroethene	8.02	61	187343	28.04	ug/L	95
21) Acrylonitrile	8.08	53	142463	119.09	ug/L	98
22) Methyl Tert Butyl Ether	7.92	73	395270	26.11	ug/L	98
23) Hexane	8.19	57	88389	23.94	ug/L	89
24) 1,1-Dichloroethane	8.59	63	228340	27.05	ug/L	96
25) Vinyl acetate	8.51	43	1144352	107.97	ug/L	99
26) Di-isopropyl ether	8.43	45	406211	24.59	ug/L	98
27) Chloroprene	8.65	53	234022	29.90	uL/L	96
28) Ethyl tert-butyl ether	8.87	59	428716	26.42	ug/L	100
29) 2,2-Dichloropropane	9.28	77	148638	21.33	ug/L	99
30) cis-1,2-Dichloroethene	9.30	96	153937	26.50	ug/L	92
31) Ethyl Acetate	9.18	43	700010	122.41	uL/L	99
32) 2-Butanone	9.18	43	700010	122.41	ug/L	100
33) Propionitrile	9.43	54	115881	264.89	uL/L	97
34) Methacrylonitrile	9.58	41	710499	184.90	uL/L	92
35) Bromochloromethane	9.62	128	78319	27.24	ug/L	95

(#) = qualifier out of range (m) = manual integration
F020634.D VF3547AP9G.M Fri Oct 09 11:52:28 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020634.D Vial: 32
Acq On : 9 Oct 2009 12:43 am Operator: AnjanaP
Sample : t39169-1msd Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:19 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	9.63	83	299439	26.76 ug/L	99
37)	Tetrahydrofuran	9.18	42	64610	25.07 ug/L	96
38)	1,1,1-Trichloroethane	9.89	97	254166	26.35 ug/L	98
40)	Cyclohexane	9.91	56	152104	26.21 ug/L	95
41)	Isobutyl Alcohol	9.99	43	66892	936.59 uL/L	85
42)	n-Butyl Alcohol	10.79	56	40505	945.00 ug/L	85
43)	1,1-Dichloropropene	10.07	75	196356	27.33 ug/L	95
44)	Carbon Tetrachloride	10.07	117	228840	27.23 ug/L	96
46)	Benzene	10.35	78	458860	27.34 ug/L	98
47)	1,2-Dichloroethane	10.42	62	250564	25.72 ug/L	99
48)	tert-amyl methyl ether	10.29	73	399579	26.14 ug/L	98
49)	Trichloroethene	11.09	95	152016	26.44 ug/L	99
50)	Methylcyclohexane	11.29	83	131783	24.37 ug/L	98
51)	Methyl Methacrylate	11.35	41	114379	25.51 uL/L	97
52)	1,2-Dichloropropane	11.45	63	106773	25.85 ug/L	97
53)	Dibromomethane	11.64	93	104262	26.21 ug/L	97
54)	1,4-Dioxane	11.54	88	20683	498.69 ug/L	91
55)	Bromodichloromethane	11.74	83	232624	24.09 ug/L	98
56)	2-Nitropropane	12.08	41	251175	123.25 ug/L	97
57)	2-Chloroethyl vinyl ether	12.24	63	151134	71.08 ug/L #	13
58)	1-Bromo-2-Chloroethane	12.24	63	151134	25.05 uL/L	100
59)	4-Methyl-2-pentanone	12.36	43	520067	130.29 ug/L	99
60)	cis-1,3-Dichloropropene	12.29	75	226261	25.08 ug/L	98
63)	Toluene	12.70	91	525203	25.19 ug/L	98
64)	Ethyl Methacrylate	12.87	69	153504	23.09 uL/:	97
65)	trans-1,3-Dichloropropene	13.00	75	228100	25.22 ug/L	94
66)	1,1,2-Trichloroethane	13.28	83	96958	24.84 ug/L	97
67)	Tetrachloroethene	13.43	166	163258	24.91 ug/L	97
68)	2-hexanone	13.44	43	355265	118.80 ug/L	97
69)	1,3-Dichloropropane	13.53	76	213542	24.34 ug/L	95
70)	Dibromochloromethane	13.85	129	165766	24.64 ug/L	97
71)	1,2-Dibromoethane	14.09	107	136919	24.98 ug/L	96
72)	1-Chlorohexane	14.42	91	172760	23.63 ug/L	93
73)	Chlorobenzene	14.67	112	341131	24.66 ug/L	98
74)	1,1,1,2-Tetrachloroethane	14.74	131	148438	24.81 ug/L	97
75)	Ethylbenzene	14.68	91	629771	24.26 ug/L	100
76)	m,p-Xylene	14.82	91	990372	49.58 ug/L	99
77)	o-Xylene	15.41	91	511787	24.63 ug/L	97
78)	Styrene	15.43	104	345619	23.39 ug/L	94
79)	Bromoform	15.84	173	111308	23.25 ug/L	98
81)	Isopropylbenzene	15.84	105	494302	24.68 ug/L	99
82)	Cyclohexanone	16.17	55	14721	89.08 ug/L #	12
84)	Bromobenzene	16.45	156	174551	24.38 ug/L	99
85)	1,1,2,2-Tetrachloroethane	16.32	83	124138	22.68 ug/L	97
86)	Trans-1,4-Dichloro-2-Buten	16.39	53	41892	20.67 ug/L #	93
87)	1,2,3-Trichloropropane	16.45	110	44488	21.32 ug/L	94
88)	n-Propylbenzene	16.39	91	630276	22.96 ug/L	99
89)	2-Chlorotoluene	16.63	91	473408	23.20 ug/L	100
90)	4-Chlorotoluene	16.78	91	441715	23.18 ug/L	96

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020634.D Vial: 32
Acq On : 9 Oct 2009 12:43 am Operator: AnjanaP
Sample : t39169-1msd Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:19 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

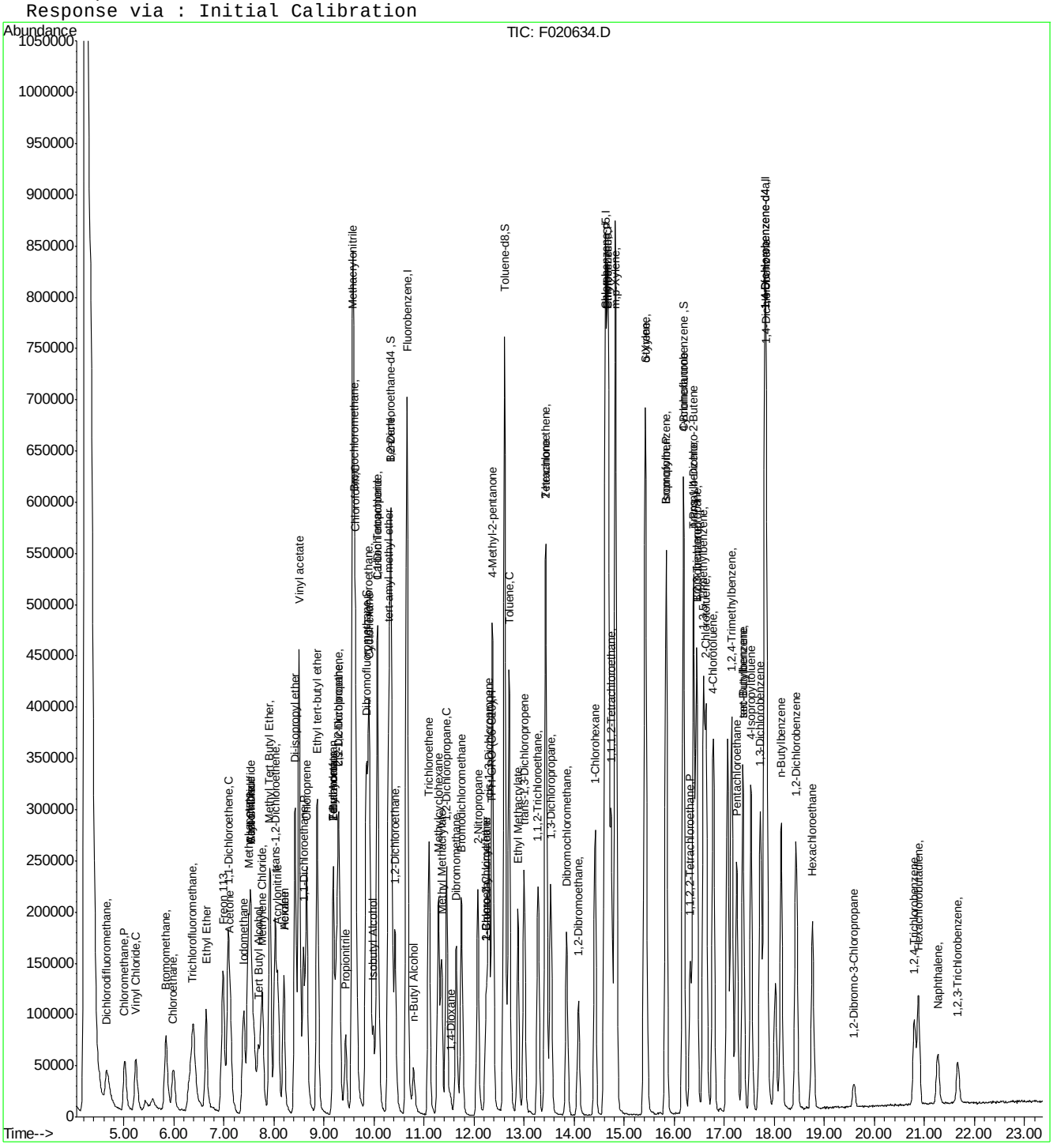
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.58	105	412845	22.73	ug/L	99
92)	Pentachloroethane	17.25	167	101057	21.88	uL/L	98
93)	sec-Butylbenzene	17.37	105	445421	22.23	ug/L	99
94)	1,3-Dichlorobenzene	17.73	146	265521	23.75	ug/L	98
95)	4-Isopropyltoluene	17.53	119	362290	22.24	ug/L	97
96)	1,4-Dichlorobenzene	17.84	146	275226	23.89	ug/L	95
97)	tert-Butylbenzene	17.37	91	80188	22.81	ug/L	92
98)	n-Butylbenzene	18.14	91	326681	20.72	ug/L	99
99)	1,2-Dichlorobenzene	18.43	146	240389	22.91	ug/L	96
100)	1,2,4-Trimethylbenzene	17.15	105	433225	22.31	ug/L	97
101)	Hexachloroethane	18.76	119	83588	21.66	uL/L	95
102)	1,2-Dibromo-3-Chloropropan	19.59	75	15074	14.51	ug/L	94
103)	1,2,4-Trichlorobenzene	20.80	180	66104	11.11	ug/L	96
104)	Hexachlorobutadiene	20.88	225	48180	18.43	ug/L	96
105)	Naphthalene	21.27	128	98025	11.36	ug/L	99
106)	1,2,3-Trichlorobenzene	21.66	180	33756	9.74	ug/L	97
108)	TPH-GRO (C6-C10)	12.34	TIC	47540756m	1810.60	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020634.D VF3547AP9G.M Fri Oct 09 11:52:28 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020634.D Vial: 32
Acq On : 9 Oct 2009 12:43 am Operator: AnjanaP
Sample : t39169-1msd Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 11:44 2009 Quant Results File: VF3547AP9G.RES

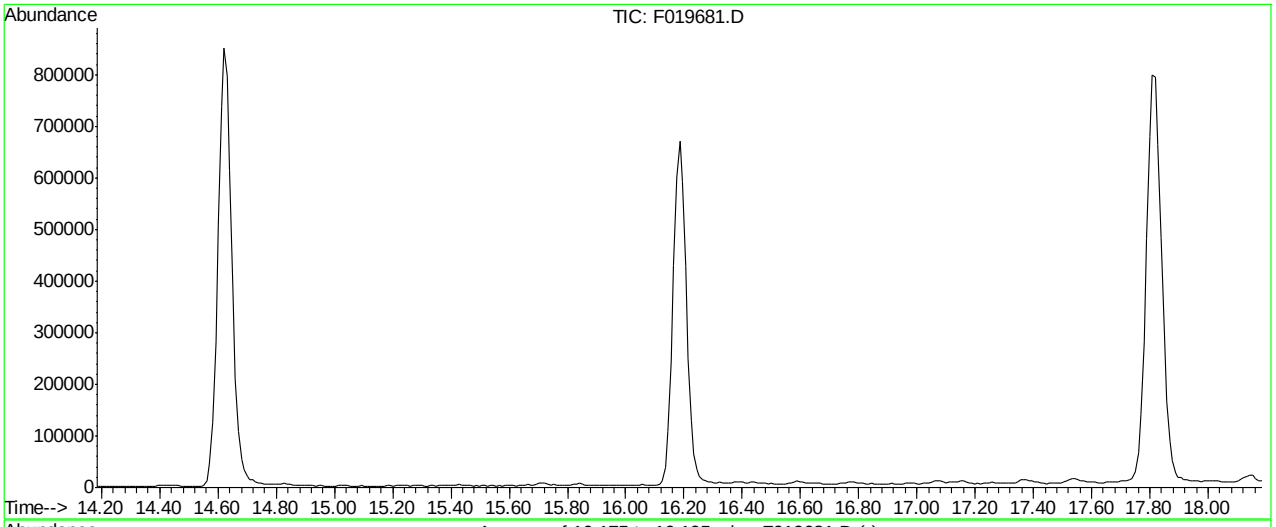
Method : C:\MSDCHEM\2\METHODS\VF3547AP9G.M (RTE Integrator)
Title : SW846 8260B and EPA 624
Last Update : Thu Oct 08 12:40:30 2009
Response via : Initial Calibration

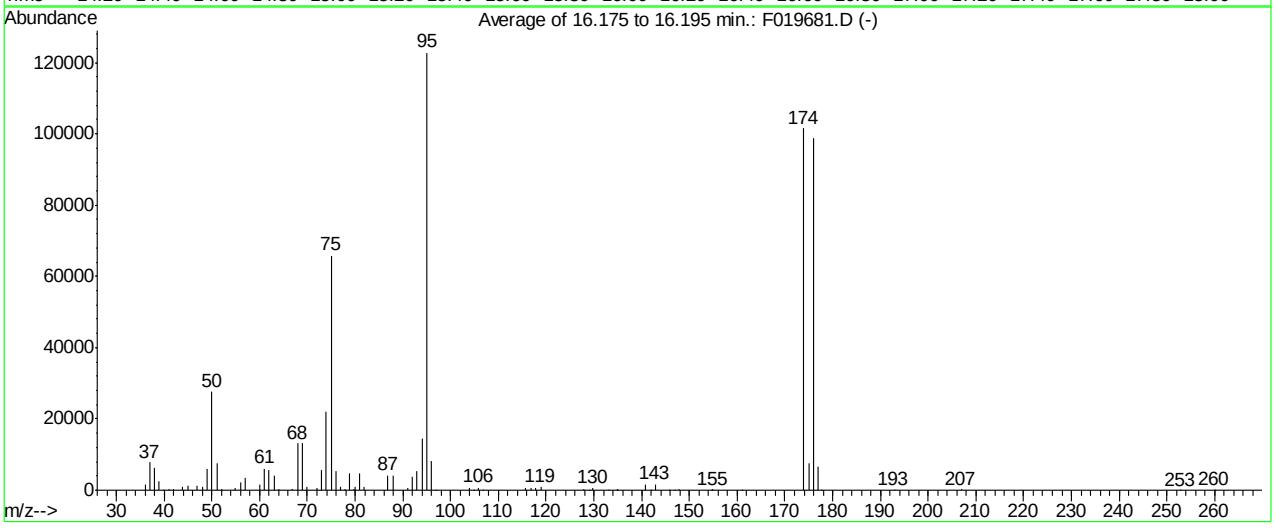


ACCUTEST Laboratories T39169

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





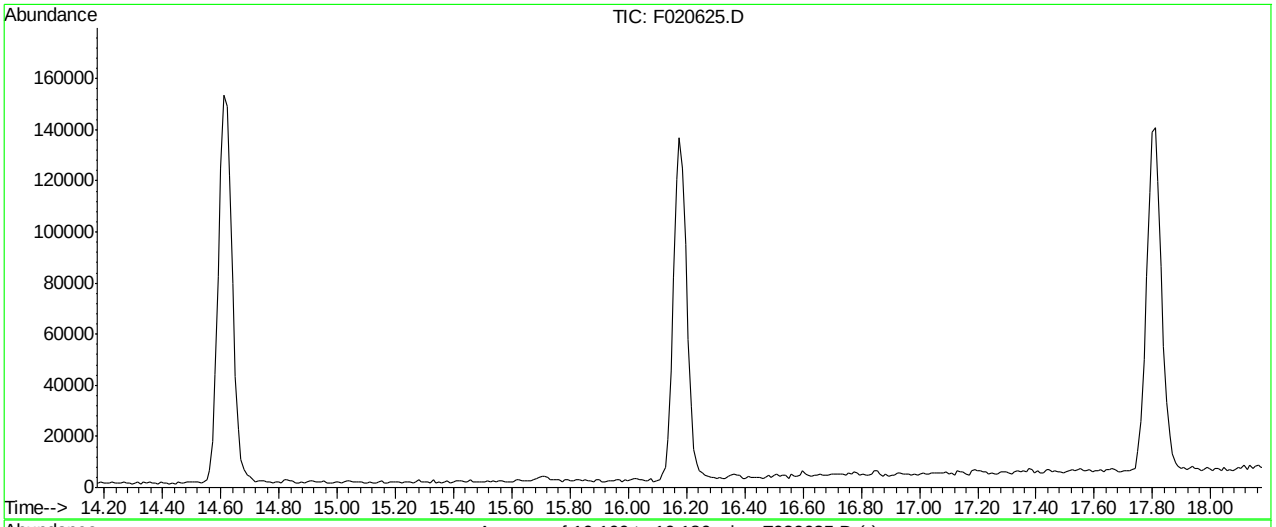
AutoFind: Scans 1233, 1234, 1235; Background Corrected with Scan 1224

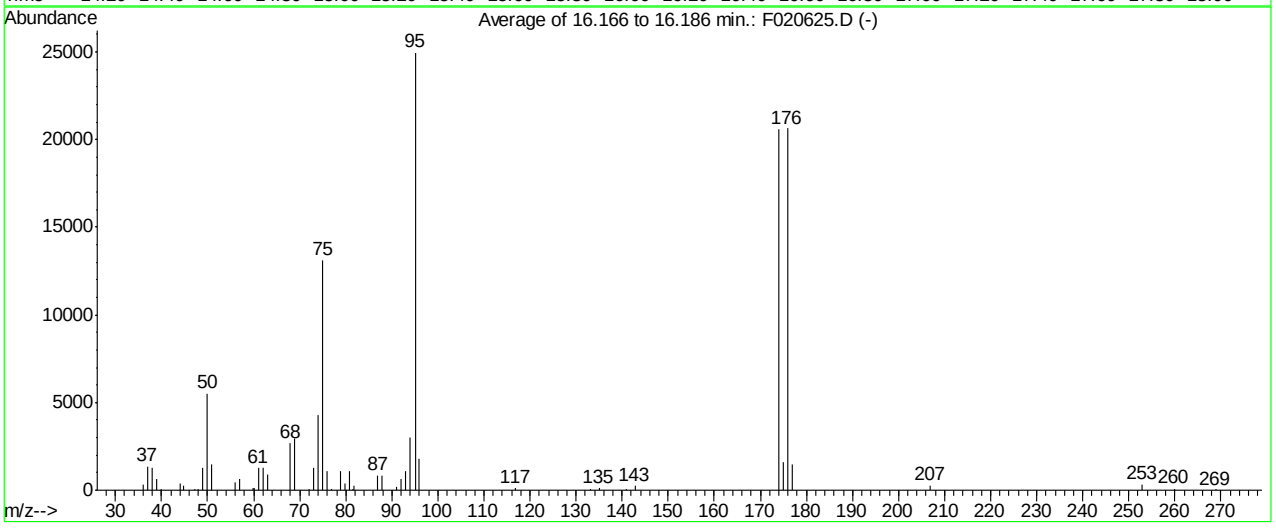
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	27589	PASS
75	95	30	60	53.6	65813	PASS
95	95	100	100	100.0	122850	PASS
96	95	5	9	6.8	8327	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.7	101570	PASS
175	174	5	9	7.5	7649	PASS
176	174	95	101	97.1	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\VF3593\F020625.D Vial: 23
Acq On : 8 Oct 2009 8:12 pm Operator: AnjanaP
Sample : bfb Inst : GC/MS F
Misc : ms7097,vf3595,5,,,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





AutoFind: Scans 1232, 1233, 1234; 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	22.1	5525	PASS
75	95	30	60	52.6	13132	PASS
95	95	100	100	100.0	24970	PASS
96	95	5	9	7.2	1787	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.4	20570	PASS
175	174	5	9	7.9	1619	PASS
176	174	95	101	100.3	20634	PASS
177	176	5	9	7.1	1464	PASS

F020625.D VF3547AP9G.M Fri Oct 09 11:54:04 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

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

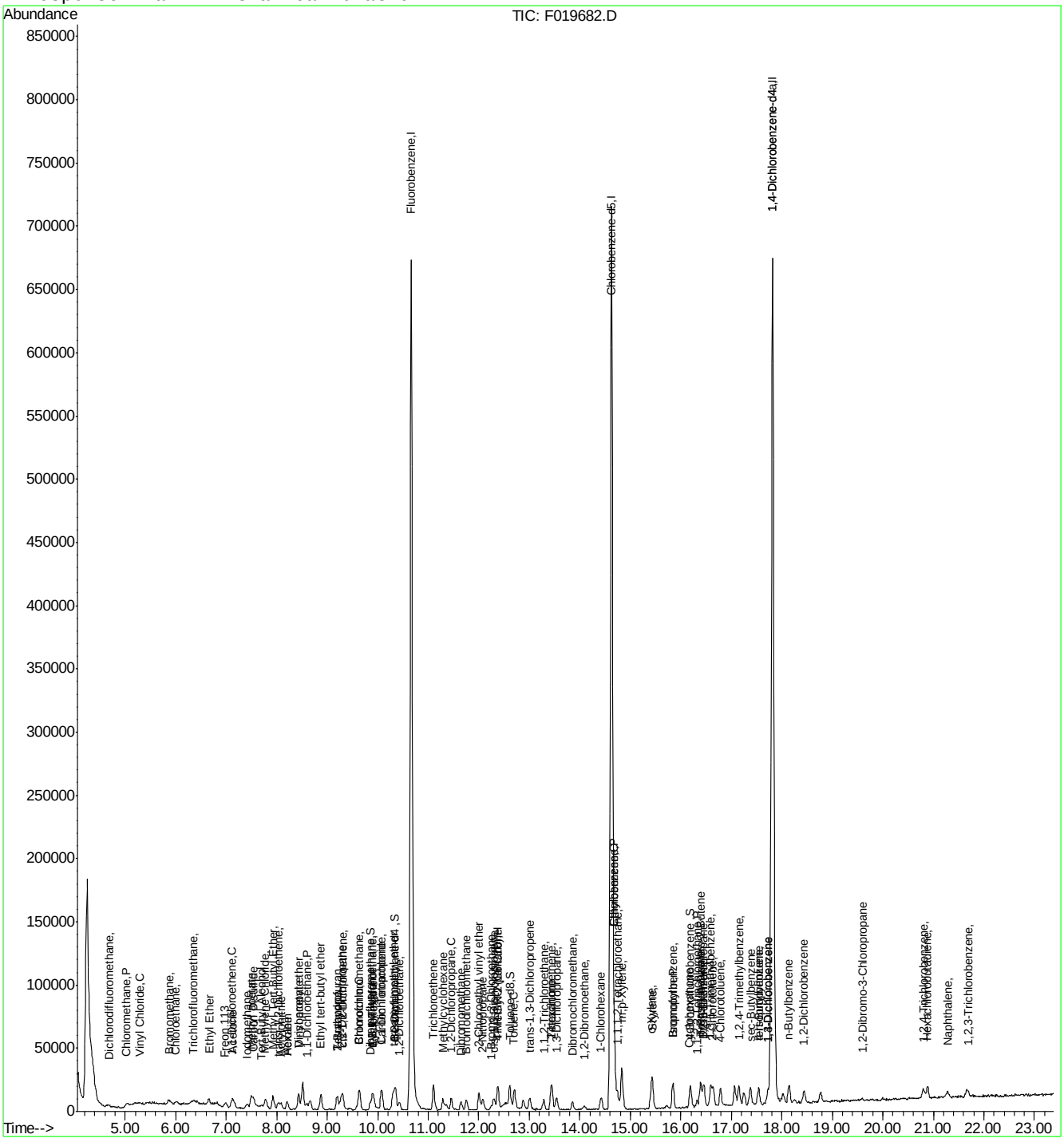
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,2,4-Trichlorobenzene	20.81	180	6329	1.10	ug/L	92
93)	Hexachlorobutadiene	20.88	225	4084	1.58	ug/L	94
94)	Naphthalene	21.28	128	10874	1.28	ug/L	98
95)	1,2,3-Trichlorobenzene	21.68	180	4991	1.57	ug/L	90
97)	TPH-GRO (C6-C10)	12.39	TIC	184556m	5.23	ug/kg	

(#) = 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



ACCUTEST Laboratories T39169

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

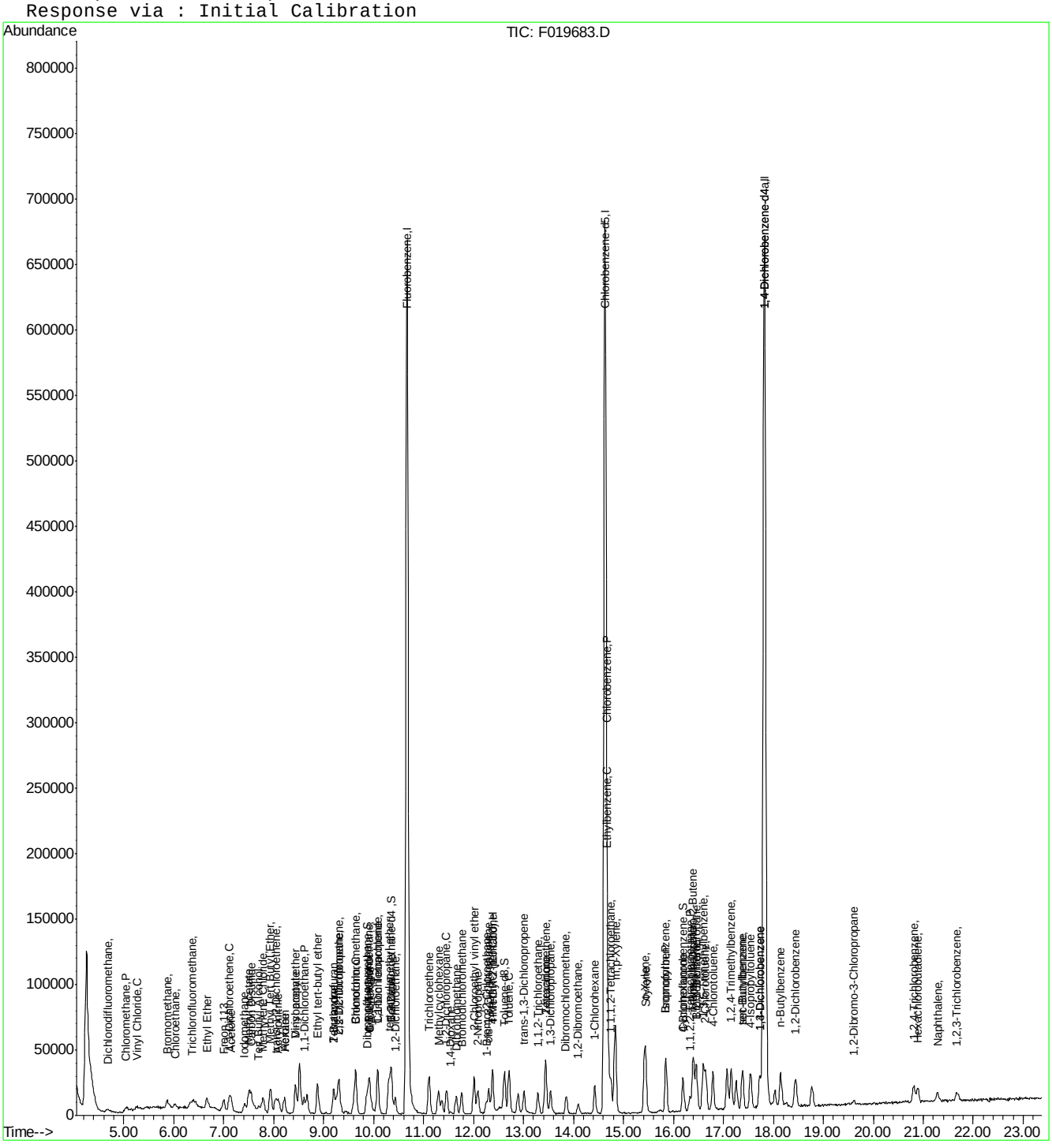
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	2425	2.24	ug/L	87
92)	1,2,4-Trichlorobenzene	20.81	180	9654	1.62	ug/L	97
93)	Hexachlorobutadiene	20.89	225	5689	1.73	ug/L	89
94)	Naphthalene	21.28	128	13984	1.46	ug/L	80
95)	1,2,3-Trichlorobenzene	21.67	180	6548	1.62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



ACCUTEST Laboratories T39169

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

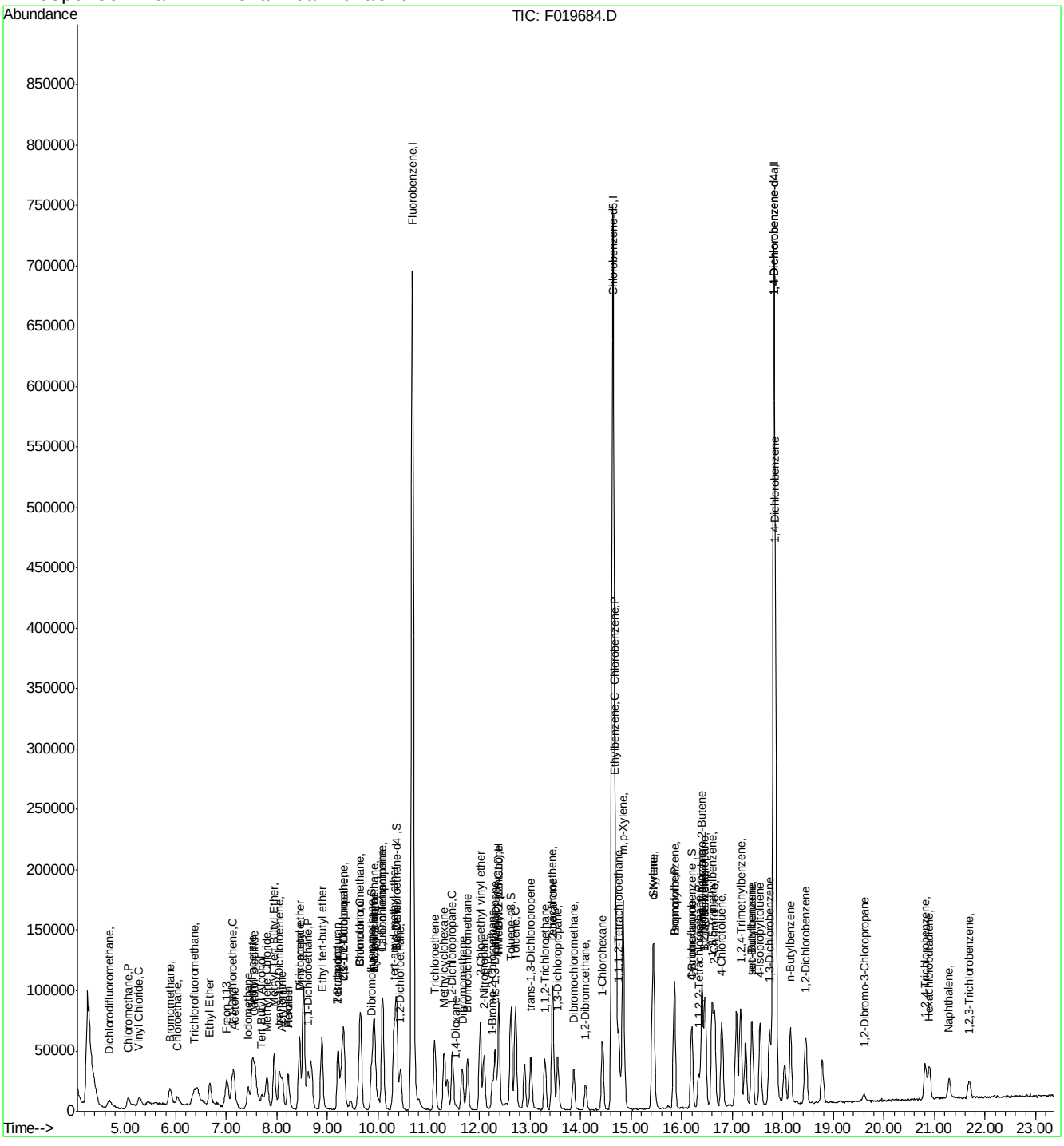
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.60	75	4739	3.99	ug/L	83
92) 1,2,4-Trichlorobenzene	20.82	180	22735	3.87	ug/L	98
93) Hexachlorobutadiene	20.90	225	12032	3.63	ug/L	93
94) Naphthalene	21.29	128	30446	3.32	ug/L	93
95) 1,2,3-Trichlorobenzene	21.69	180	13294	3.33	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 T39169

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

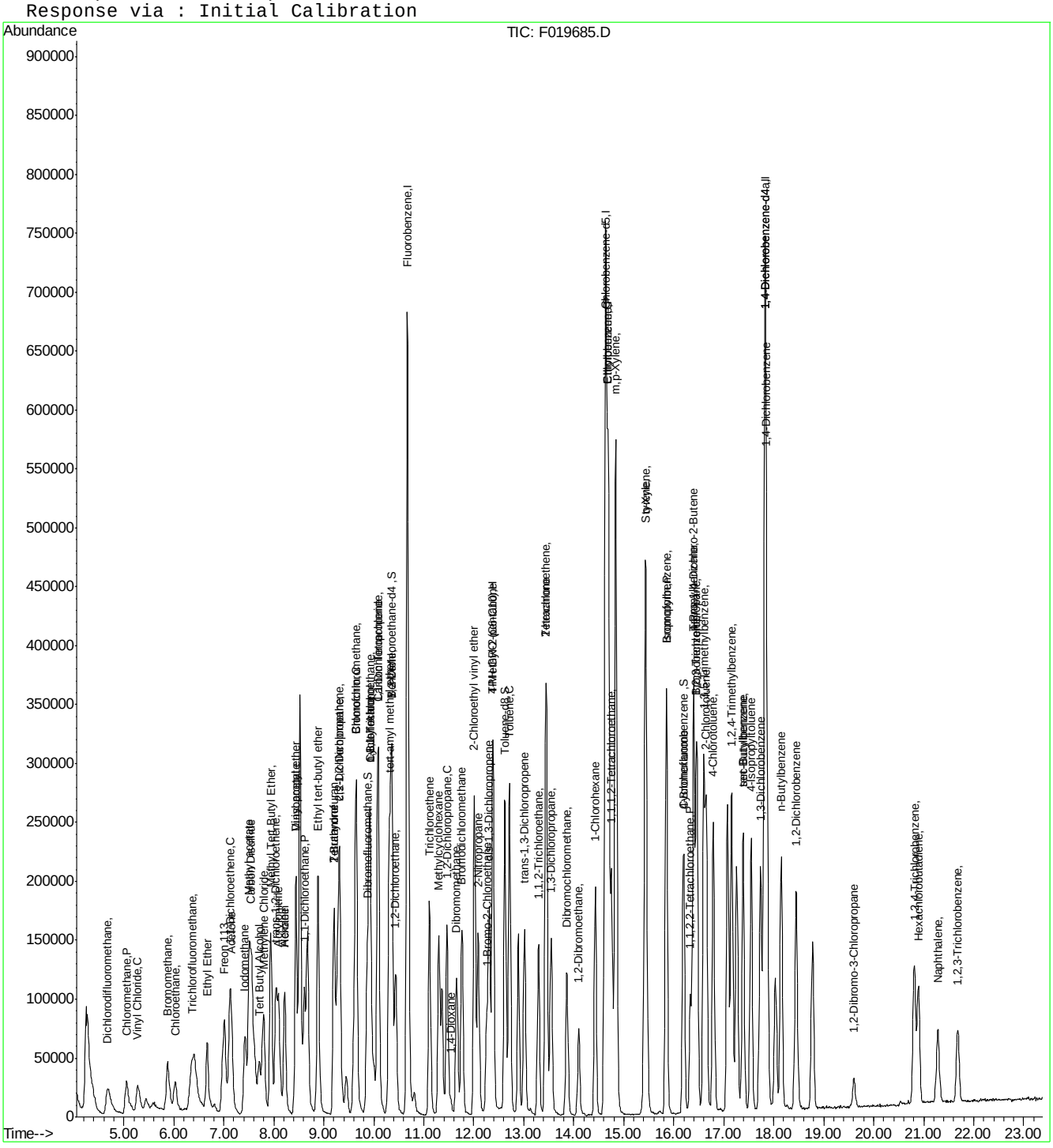
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	15869	14.40	ug/L	96
92)	1,2,4-Trichlorobenzene	20.81	180	86947	16.04	ug/L	98
93)	Hexachlorobutadiene	20.89	225	42424	14.07	ug/L	93
94)	Naphthalene	21.28	128	121677	14.82	ug/L	99
95)	1,2,3-Trichlorobenzene	21.68	180	48275	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 T39169

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

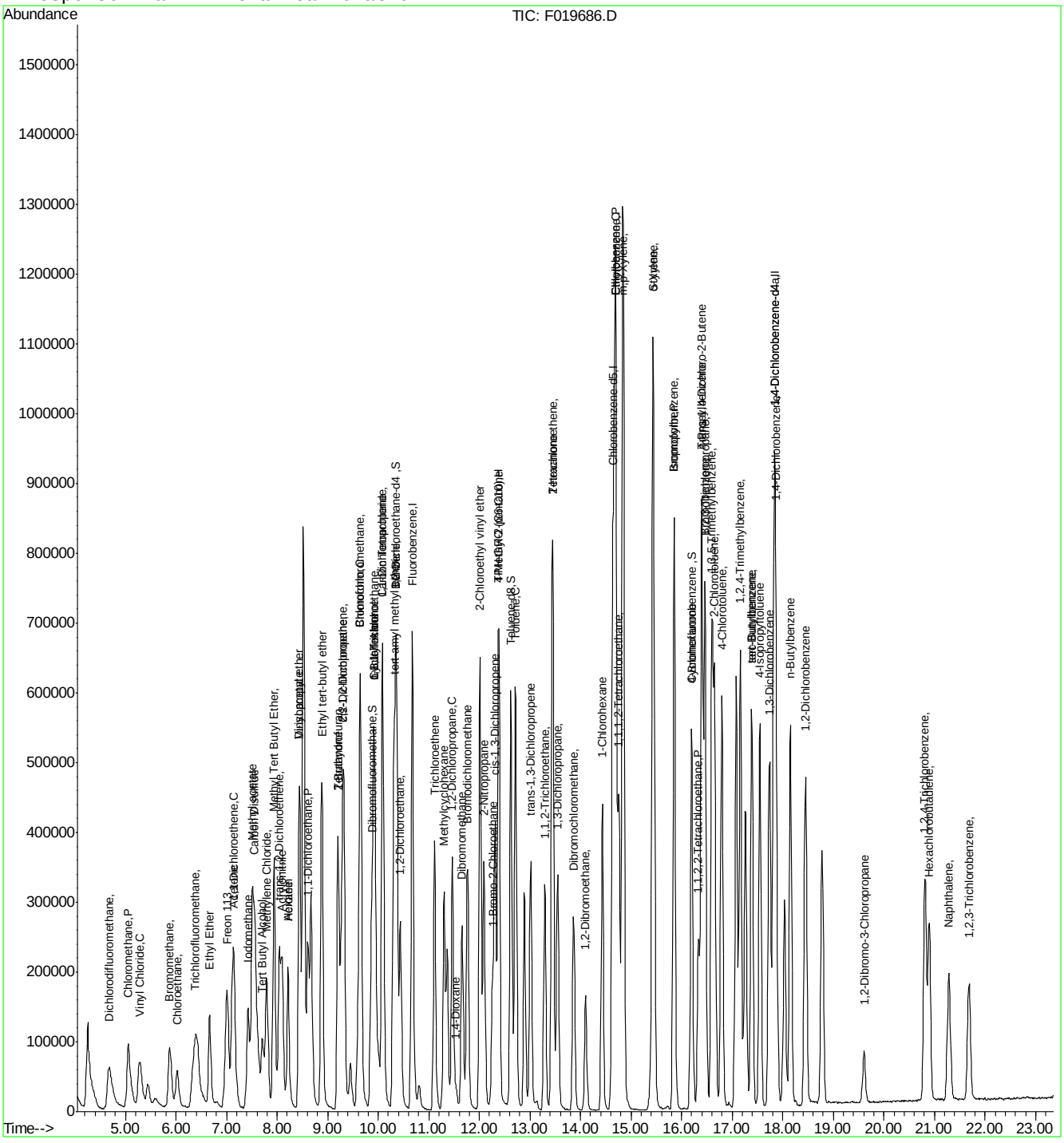
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	43953	50.61	ug/L	100
92)	1,2,4-Trichlorobenzene	20.82	180	248461	49.42	ug/L	100
93)	Hexachlorobutadiene	20.90	225	111950	49.69	ug/L	100
94)	Naphthalene	21.28	128	367955	50.16	ug/L	100
95)	1,2,3-Trichlorobenzene	21.69	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



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

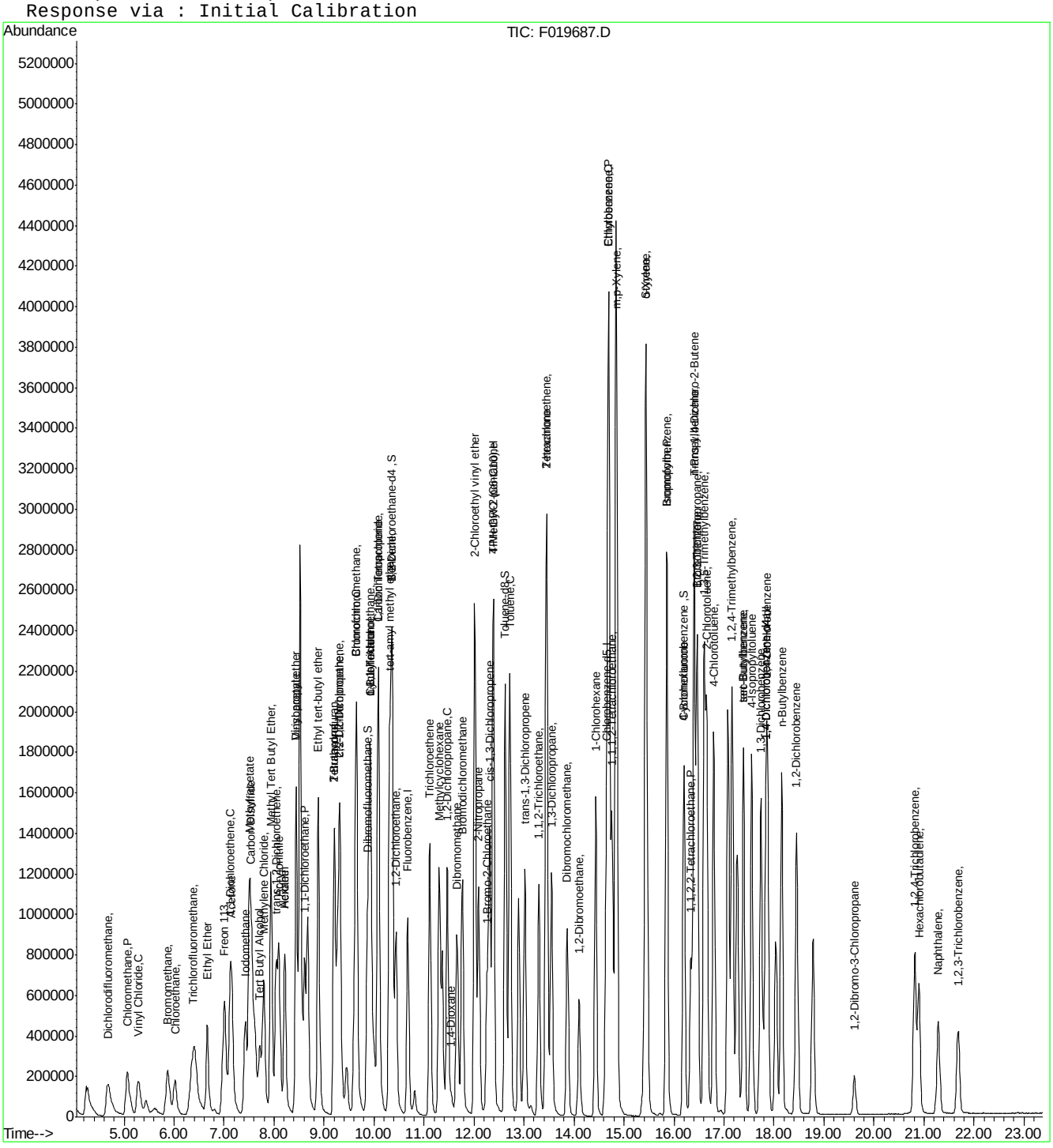
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	108606	77.50	ug/L	85
92)	1,2,4-Trichlorobenzene	20.82	180	634056	90.38	ug/L	98
93)	Hexachlorobutadiene	20.90	225	288330	75.43	ug/L	96
94)	Naphthalene	21.28	128	927652	88.41	ug/L	98
95)	1,2,3-Trichlorobenzene	21.69	180	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
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 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 T39169

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

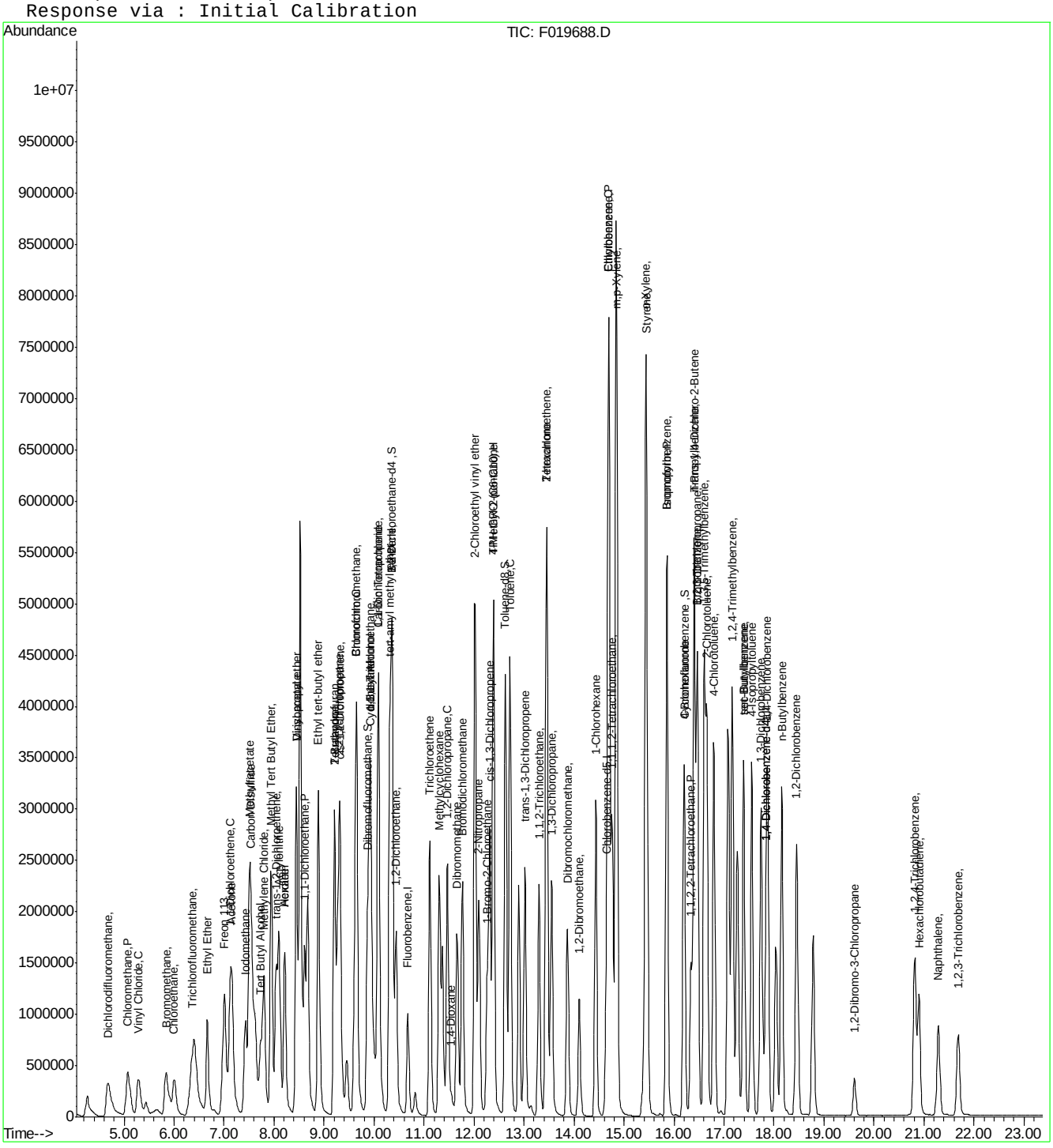
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.61	75	209616	153.18	ug/L	87
92) 1,2,4-Trichlorobenzene	20.82	180	1235269	176.39	ug/L	100
93) Hexachlorobutadiene	20.90	225	536202	144.17	ug/L	97
94) Naphthalene	21.28	128	1803651	172.78	ug/L	100
95) 1,2,3-Trichlorobenzene	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
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 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 T39169

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

ACCUTEST Laboratories T39169

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

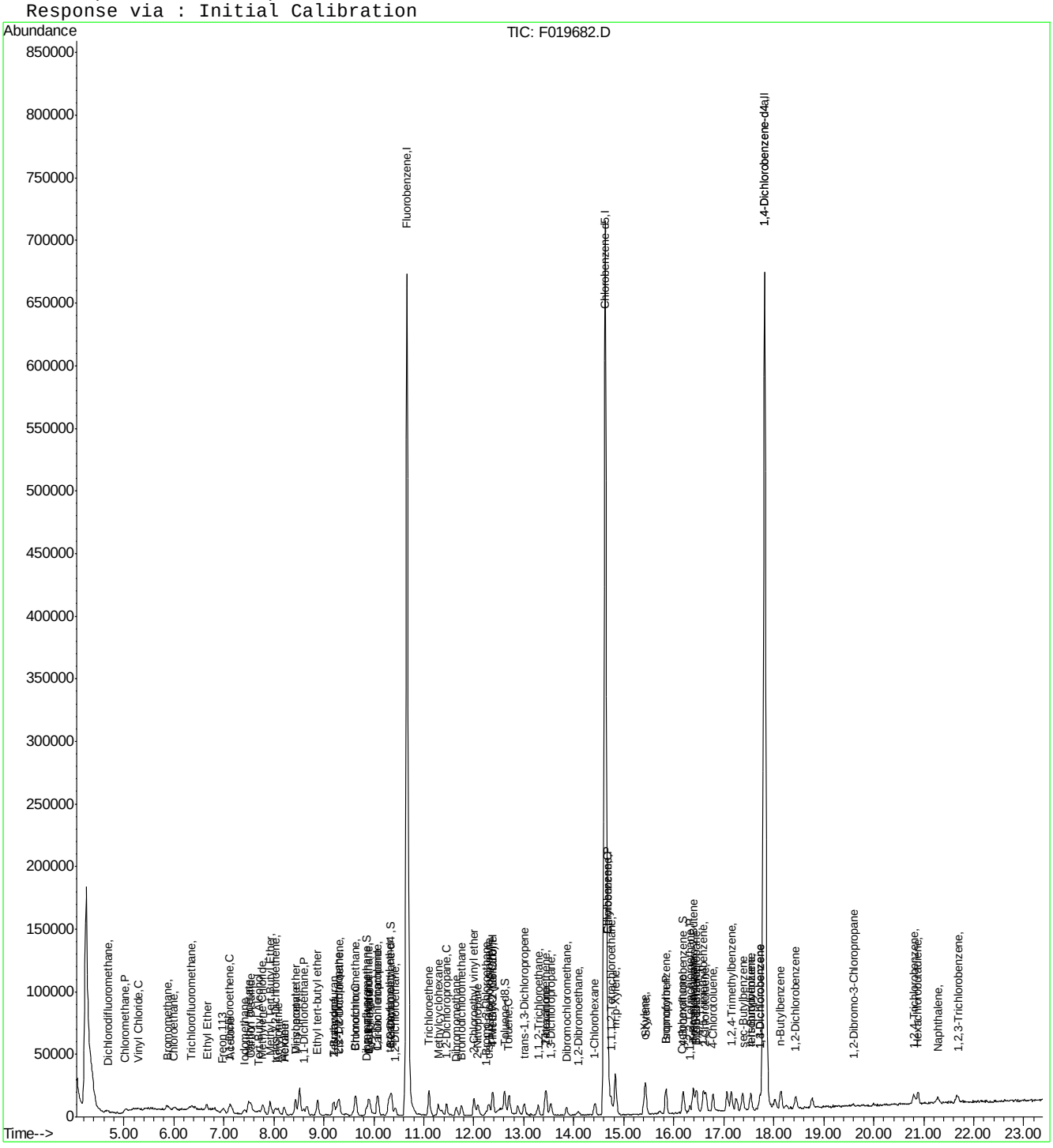
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
92)	1,2,4-Trichlorobenzene	20.81	180	6329	1.10	ug/L	92
93)	Hexachlorobutadiene	20.88	225	4084	1.58	ug/L	94
94)	Naphthalene	21.28	128	10874	1.28	ug/L	98
95)	1,2,3-Trichlorobenzene	21.68	180	4991	1.57	ug/L	90
97)	TPH-GRO (C6-C10)	12.39	TIC	184556m	5.23	ug/kg	

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

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 T39169

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

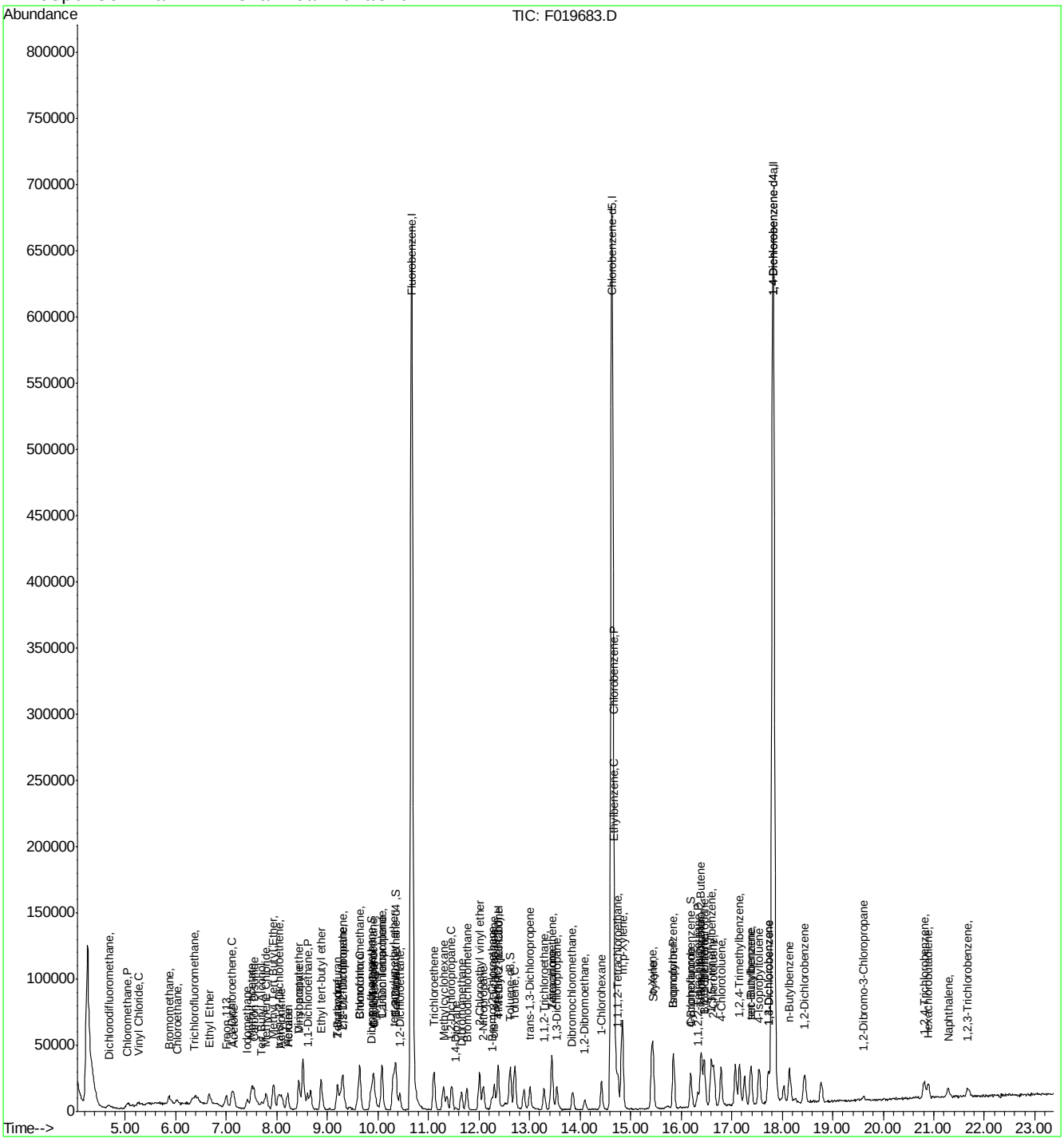
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	2425	2.24	ug/L	87
92)	1,2,4-Trichlorobenzene	20.81	180	9654	1.62	ug/L	97
93)	Hexachlorobutadiene	20.89	225	5689	1.73	ug/L	89
94)	Naphthalene	21.28	128	13984	1.46	ug/L	80
95)	1,2,3-Trichlorobenzene	21.67	180	6548	1.62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



ACCUTEST Laboratories T39169

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)

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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
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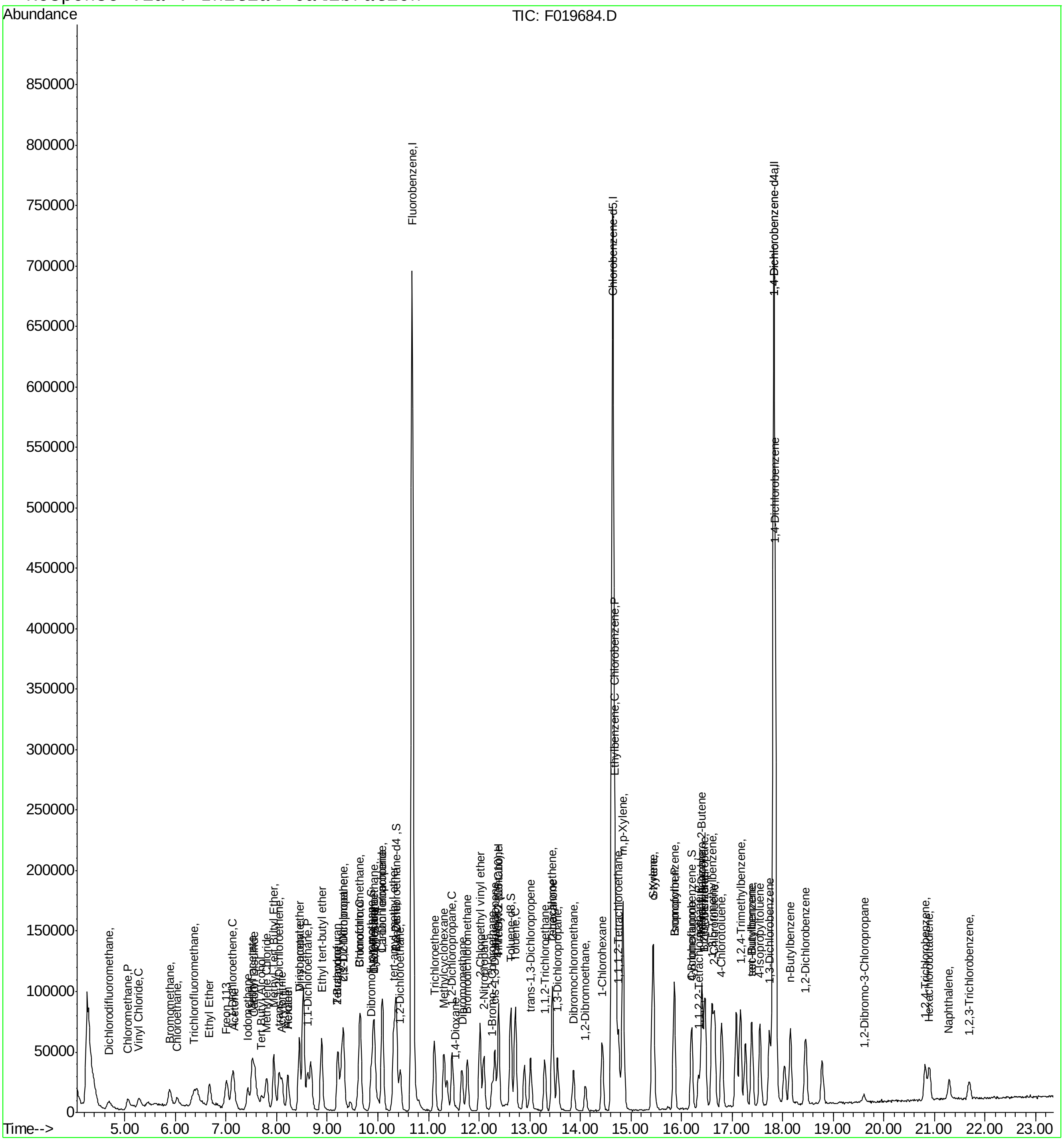


F019684.D VF3547.M Tue Sep 15 09:55:46 2009 Page 4

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

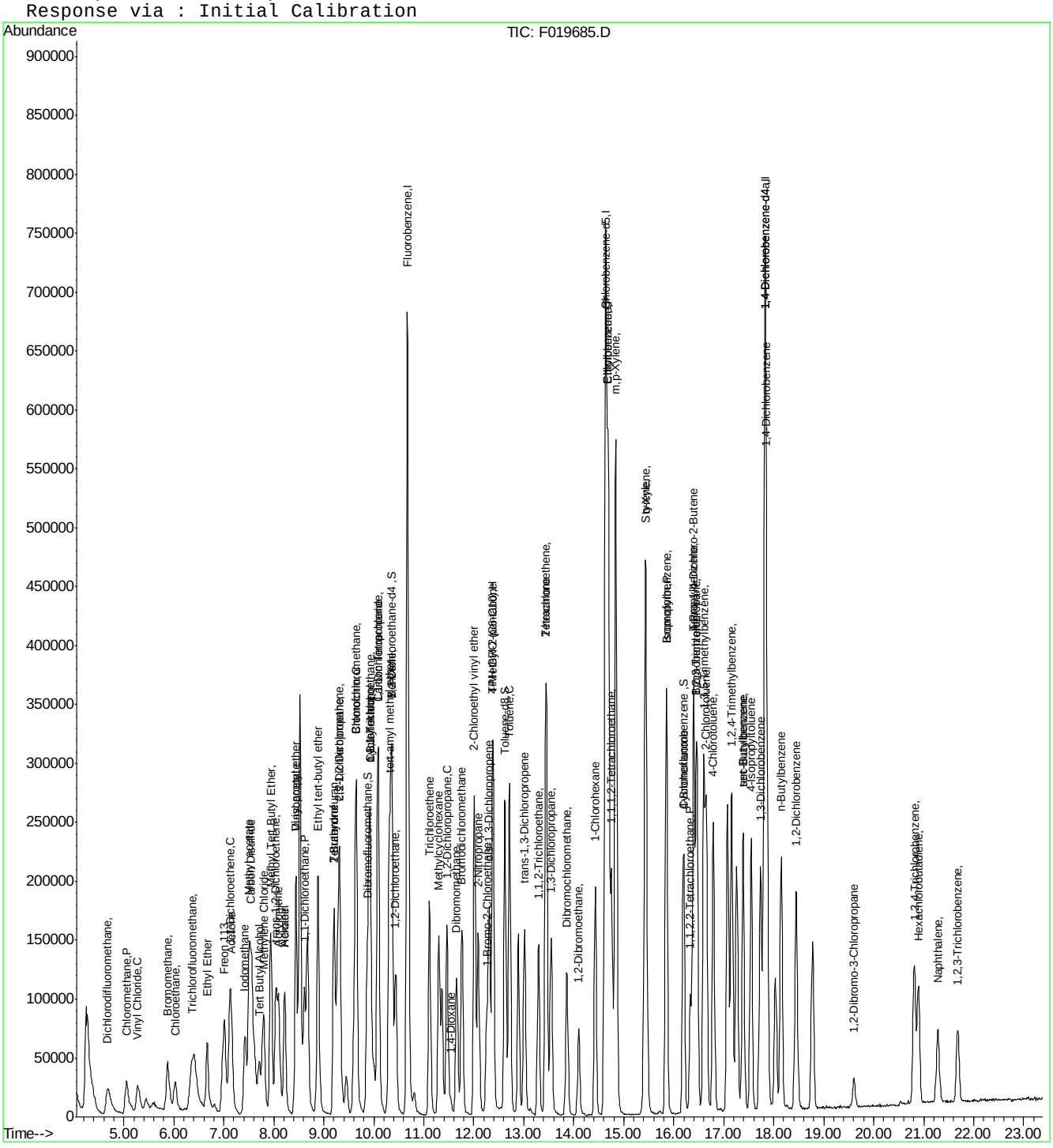
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.60	75	15869	14.40	ug/L	96
92)	1,2,4-Trichlorobenzene	20.81	180	86947	16.04	ug/L	98
93)	Hexachlorobutadiene	20.89	225	42424	14.07	ug/L	93
94)	Naphthalene	21.28	128	121677	14.82	ug/L	99
95)	1,2,3-Trichlorobenzene	21.68	180	48275	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 T39169

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

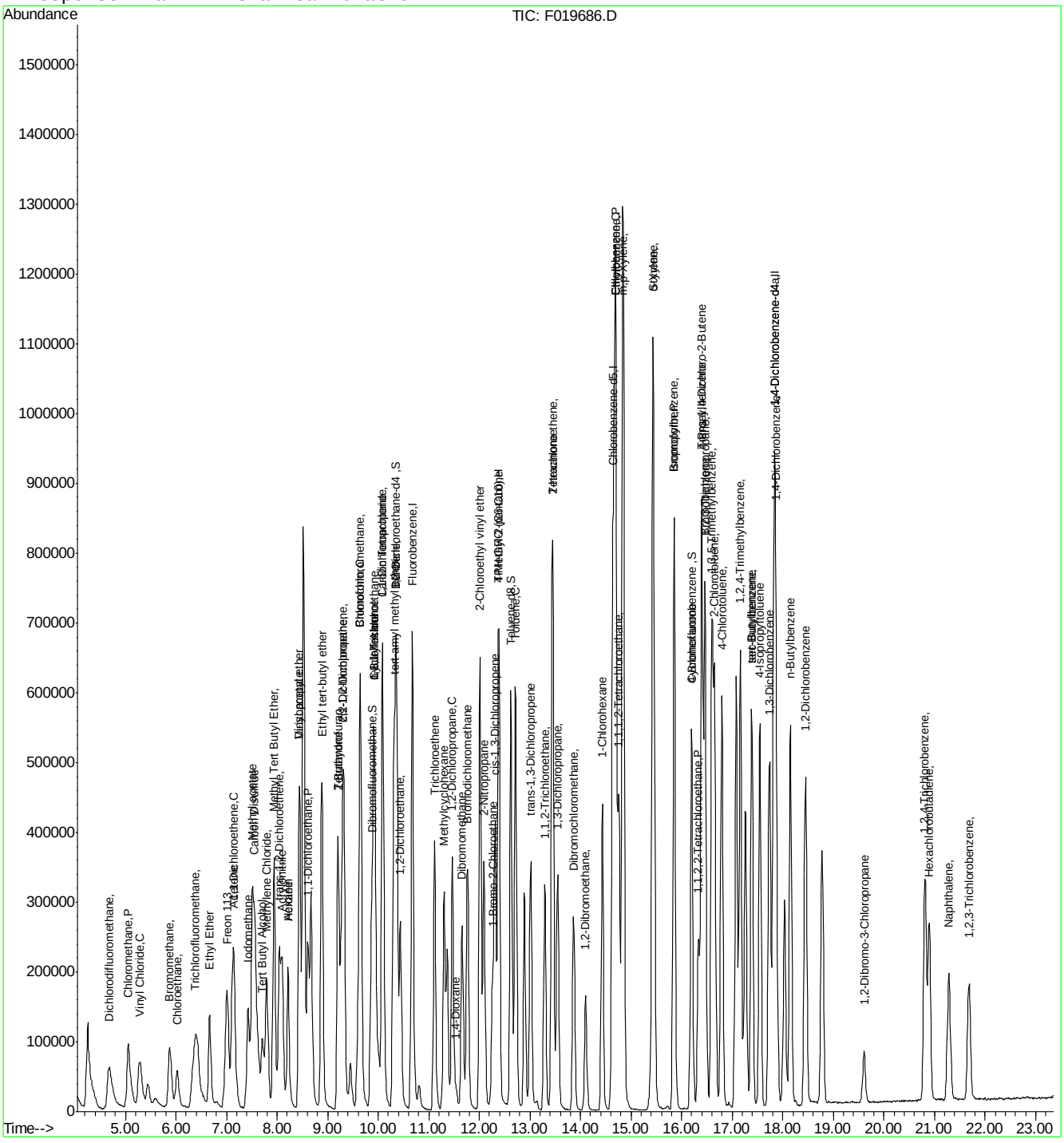
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.60	75	43953	50.61	ug/L	100
92) 1,2,4-Trichlorobenzene	20.82	180	248461	49.42	ug/L	100
93) Hexachlorobutadiene	20.90	225	111950	49.69	ug/L	100
94) Naphthalene	21.28	128	367955	50.16	ug/L	100
95) 1,2,3-Trichlorobenzene	21.69	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



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

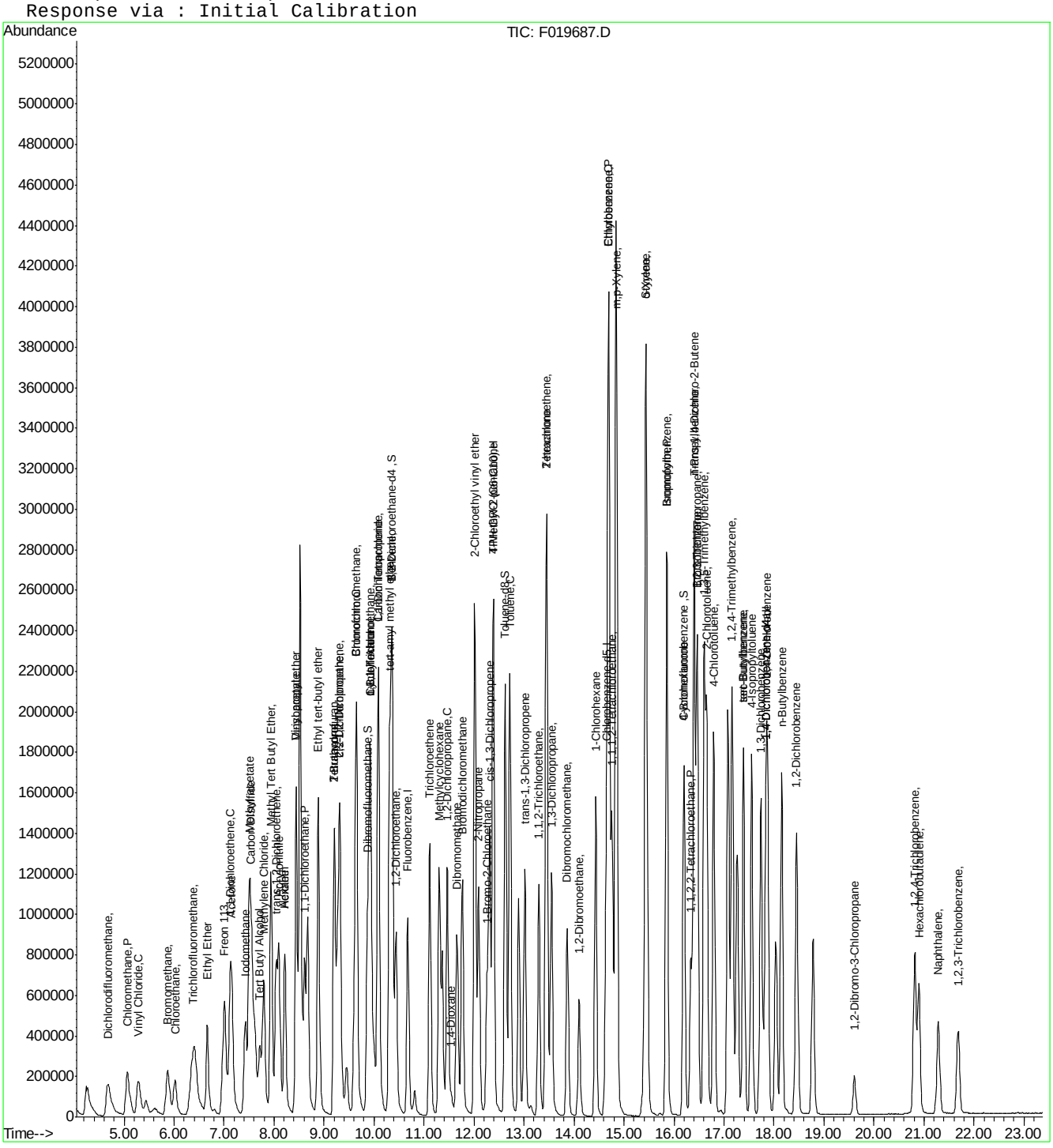
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	108606	77.50	ug/L	85
92)	1,2,4-Trichlorobenzene	20.82	180	634056	90.38	ug/L	98
93)	Hexachlorobutadiene	20.90	225	288330	75.43	ug/L	96
94)	Naphthalene	21.28	128	927652	88.41	ug/L	98
95)	1,2,3-Trichlorobenzene	21.69	180	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

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 T39169

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

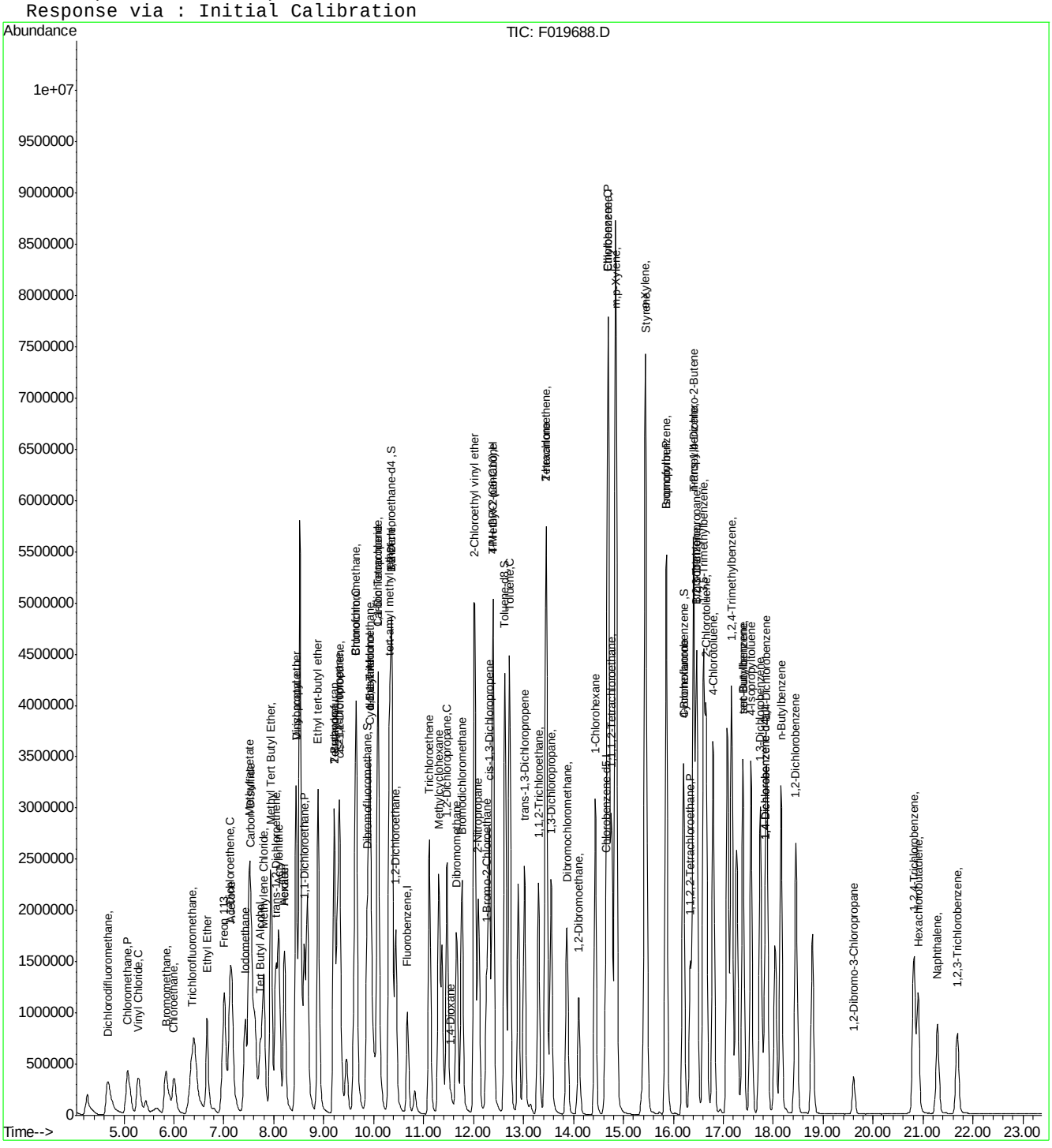
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	209616	153.18	ug/L	87
92)	1,2,4-Trichlorobenzene	20.82	180	1235269	176.39	ug/L	100
93)	Hexachlorobutadiene	20.90	225	536202	144.17	ug/L	97
94)	Naphthalene	21.28	128	1803651	172.78	ug/L	100
95)	1,2,3-Trichlorobenzene	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



ACCUTEST Laboratories T39169

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

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

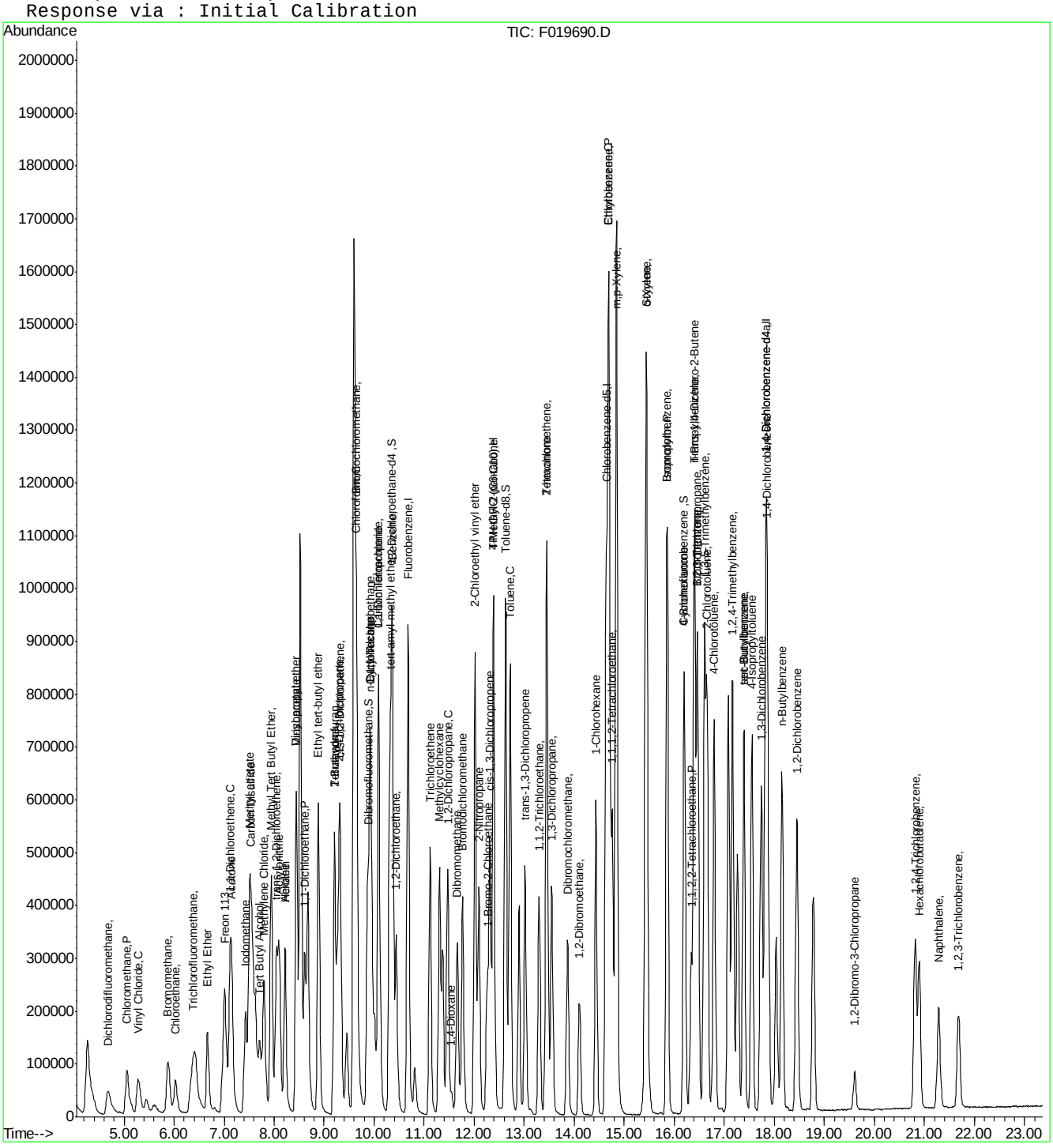
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,2-Dibromo-3-Chloropropan	19.61	75	43287	37.19	ug/L	89
92)	1,2,4-Trichlorobenzene	20.82	180	259982	39.02	ug/L	98
93)	Hexachlorobutadiene	20.90	225	124330	41.52	ug/L	98
94)	Naphthalene	21.29	128	388968	40.05	ug/L	100
95)	1,2,3-Trichlorobenzene	21.69	180	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 T39169

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

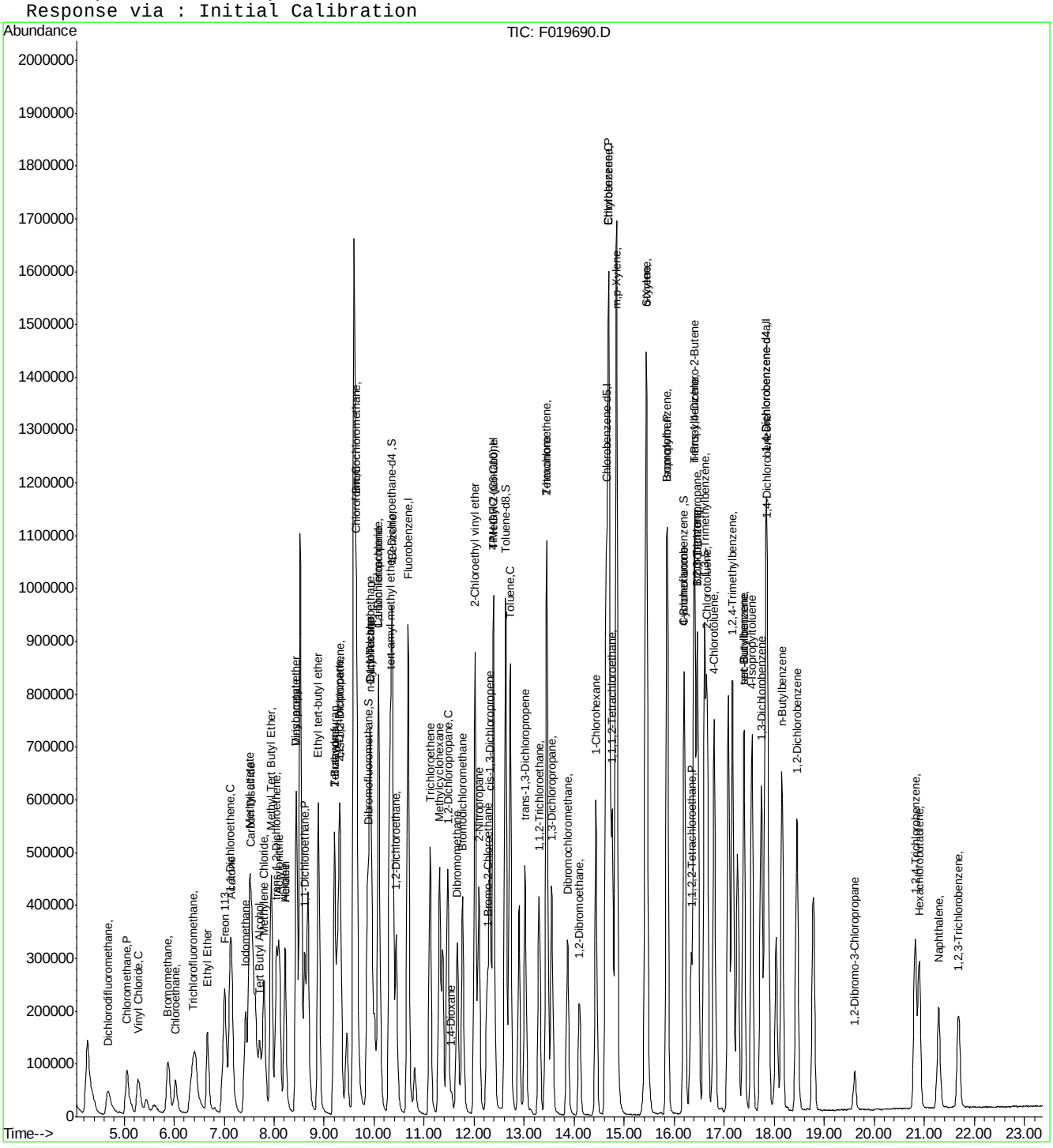
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91) 1,2-Dibromo-3-Chloropropan	19.61	75	43287	37.19	ug/L	89
92) 1,2,4-Trichlorobenzene	20.82	180	259982	39.02	ug/L	98
93) Hexachlorobutadiene	20.90	225	124330	41.52	ug/L	98
94) Naphthalene	21.29	128	388968	40.05	ug/L	100
95) 1,2,3-Trichlorobenzene	21.69	180	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
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



ACCUTEST Laboratories T39169

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/09/09 14:26

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020626.D Vial: 24
Acq On : 8 Oct 2009 8:42 pm Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:14 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	10.64	96	983492	50.00	ug/L	0.02
61) Chlorobenzene-d5	14.61	117	722271	50.00	ug/L	0.02
80) 1,4-Dichlorobenzene-d4	17.80	152	406688	50.00	ug/L	0.02
107) 1,4-Dichlorobenzene-d4a	17.80	152	406688	50.00	ug/kg	0.02

System Monitoring Compounds						
39) Dibromofluoromethane	9.83	113	228858	39.25	ug/L	0.01
Spiked Amount 50.000	Range 79 - 122		Recovery = 78.50%#			
45) 1,2-Dichloroethane-d4	10.31	65	314836	42.20	ug/L	0.02
Spiked Amount 50.000	Range 75 - 121		Recovery = 84.40%			
62) Toluene-d8	12.59	98	637647	37.74	ug/L	0.02
Spiked Amount 50.000	Range 87 - 119		Recovery = 75.48%#			
83) 4-Bromofluorobenzene	16.17	95	284810	37.19	ug/L	0.03
Spiked Amount 50.000	Range 80 - 133		Recovery = 74.38%#			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.63	85	199737	36.16	ug/L	100
3) Chloromethane	5.00	50	148781	29.59	ug/L	100
4) Vinyl Chloride	5.21	62	151241	36.37	ug/L	95
5) Bromomethane	5.82	94	162551	52.13	ug/L	96
6) Chloroethane	5.97	64	109925	41.86	ug/L	98
7) Trichlorofluoromethane	6.33	101	329783	38.64	ug/L	98
8) Acrolein	8.18	56	78830	184.92	ug/L	97
9) Ethyl Ether	6.63	59	134297	37.91	ug/L	97
10) 1,1-Dichloroethene	7.06	61	311878	45.25	ug/L	99
11) Freon 113	6.96	101	195983	44.23	ug/L	97
12) Acetone	7.11	43	259051	201.83	ug/L	96
13) Iodomethane	7.38	142	365768	47.88	ug/L	97
14) Methyl acetate	7.47	43	575941	203.26	ug/L	98
15) Allyl Chloride	7.52	41	217789m	44.04	uL/L	
16) Carbon Disulfide	7.51	76	559238	41.19	ug/L	96
17) Acetonitrile	7.52	41	106141m	118.81	uL/L	
18) Methylene Chloride	7.74	49	249607	43.22	ug/L	98
19) Tert Butyl Alcohol	7.67	59	165613	403.58	ug/L	95
20) trans-1,2-Dichloroethene	8.01	61	279807	43.56	ug/L	95
21) Acrylonitrile	8.07	53	212537	184.81	ug/L	95
22) Methyl Tert Butyl Ether	7.90	73	612947	42.11	ug/L	99
23) Hexane	8.18	57	129771	36.56	ug/L	95
24) 1,1-Dichloroethane	8.58	63	326629	40.25	ug/L	96
25) Vinyl acetate	8.49	43	2058863	202.08	ug/L	98
26) Di-isopropyl ether	8.41	45	607743	38.27	ug/L	99
27) Chloroprene	8.64	53	294890	39.20	uL/L	96
28) Ethyl tert-butyl ether	8.84	59	654876	41.97	ug/L	98
29) 2,2-Dichloropropane	9.27	77	231829	34.60	ug/L	98
30) cis-1,2-Dichloroethene	9.29	96	215800	38.64	ug/L	90
31) Ethyl Acetate	9.17	43	1144456	208.17	uL/L	99
32) 2-Butanone	9.17	43	1144456	208.17	ug/L	100
33) Propionitrile	9.41	54	90090	214.22	uL/L	99
34) Methacrylonitrile	9.56	41	138274	37.43	uL/L	95
35) Bromochloromethane	9.61	128	120255	43.50	ug/L	94

(#) = qualifier out of range (m) = manual integration
F020626.D VF3547AP9G.M Fri Oct 09 11:52:23 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020626.D Vial: 24
Acq On : 8 Oct 2009 8:42 pm Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:14 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

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
36)	Chloroform	9.62	83	440499	40.95	ug/L		98
37)	Tetrahydrofuran	9.17	42	104633	43.29	ug/L		95
38)	1,1,1-Trichloroethane	9.88	97	364148	39.28	ug/L		99
40)	Cyclohexane	9.90	56	211850	37.97	ug/L		97
41)	Isobutyl Alcohol	9.98	43	47430	697.23	uL/L		96
42)	n-Butyl Alcohol	10.78	56	29543	727.19	ug/L		79
43)	1,1-Dichloropropene	10.05	75	286520	41.48	ug/L		94
44)	Carbon Tetrachloride	10.05	117	332292	41.13	ug/L		98
46)	Benzene	10.33	78	673319	41.72	ug/L		90
47)	1,2-Dichloroethane	10.41	62	376241	40.18	ug/L		99
48)	tert-amyl methyl ether	10.28	73	619448	42.15	ug/L		96
49)	Trichloroethene	11.09	95	225674	41.46	ug/L		96
50)	Methylcyclohexane	11.27	83	197034	37.90	ug/L		98
51)	Methyl Methacrylate	11.33	41	169859	39.41	uL/L		97
52)	1,2-Dichloropropane	11.43	63	161645	40.70	ug/L		94
53)	Dibromomethane	11.63	93	162105	42.39	ug/L		99
54)	1,4-Dioxane	11.51	88	34760	871.80	ug/L		91
55)	Bromodichloromethane	11.74	83	359308	38.70	ug/L		98
56)	2-Nitropropane	12.06	41	393676	200.94	ug/L		98
57)	2-Chloroethyl vinyl ether	11.98	63	515572	252.22	ug/L		96
58)	1-Bromo-2-Chloroethane	12.23	63	162350	27.99	uL/L		99
59)	4-Methyl-2-pentanone	12.36	43	741035	193.11	ug/L		99
60)	cis-1,3-Dichloropropene	12.28	75	344988	39.78	ug/L		95
63)	Toluene	12.69	91	769417	39.72	ug/L		98
64)	Ethyl Methacrylate	12.87	69	259175	41.96	uL/:		98
65)	trans-1,3-Dichloropropene	12.99	75	329919	39.26	ug/L		97
66)	1,1,2-Trichloroethane	13.27	83	145394	40.09	ug/L		92
67)	Tetrachloroethene	13.42	166	237879	39.06	ug/L		97
68)	2-hexanone	13.43	43	539653	194.22	ug/L		98
69)	1,3-Dichloropropane	13.52	76	320354	39.29	ug/L		95
70)	Dibromochloromethane	13.83	129	248101	39.69	ug/L		98
71)	1,2-Dibromoethane	14.07	107	206692	40.58	ug/L		99
72)	1-Chlorohexane	14.40	91	244885	36.05	ug/L		94
73)	Chlorobenzene	14.66	112	502509	39.09	ug/L		98
74)	1,1,1,2-Tetrachloroethane	14.73	131	219864	39.55	ug/L		98
75)	Ethylbenzene	14.67	91	910360	37.74	ug/L		100
76)	m,p-Xylene	14.82	91	1419510	76.47	ug/L		98
77)	o-Xylene	15.40	91	746654	38.67	ug/L		98
78)	Styrene	15.43	104	561549	40.89	ug/L		94
79)	Bromoform	15.83	173	172161	38.70	ug/L		96
81)	Isopropylbenzene	15.83	105	668224	36.29	ug/L		97
82)	Cyclohexanone	16.16	55	36712	236.78	ug/L		91
84)	Bromobenzene	16.44	156	261666	39.75	ug/L		98
85)	1,1,2,2-Tetrachloroethane	16.31	83	182891	36.34	ug/L		100
86)	Trans-1,4-Dichloro-2-Buten	16.38	53	65501	35.15	ug/L	#	96
87)	1,2,3-Trichloropropane	16.43	110	73801	38.47	ug/L		91
88)	n-Propylbenzene	16.37	91	904986	35.85	ug/L		100
89)	2-Chlorotoluene	16.63	91	684859	36.51	ug/L		98
90)	4-Chlorotoluene	16.77	91	645061	36.81	ug/L		96

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020626.D Vial: 24
Acq On : 8 Oct 2009 8:42 pm Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 09 11:19:14 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

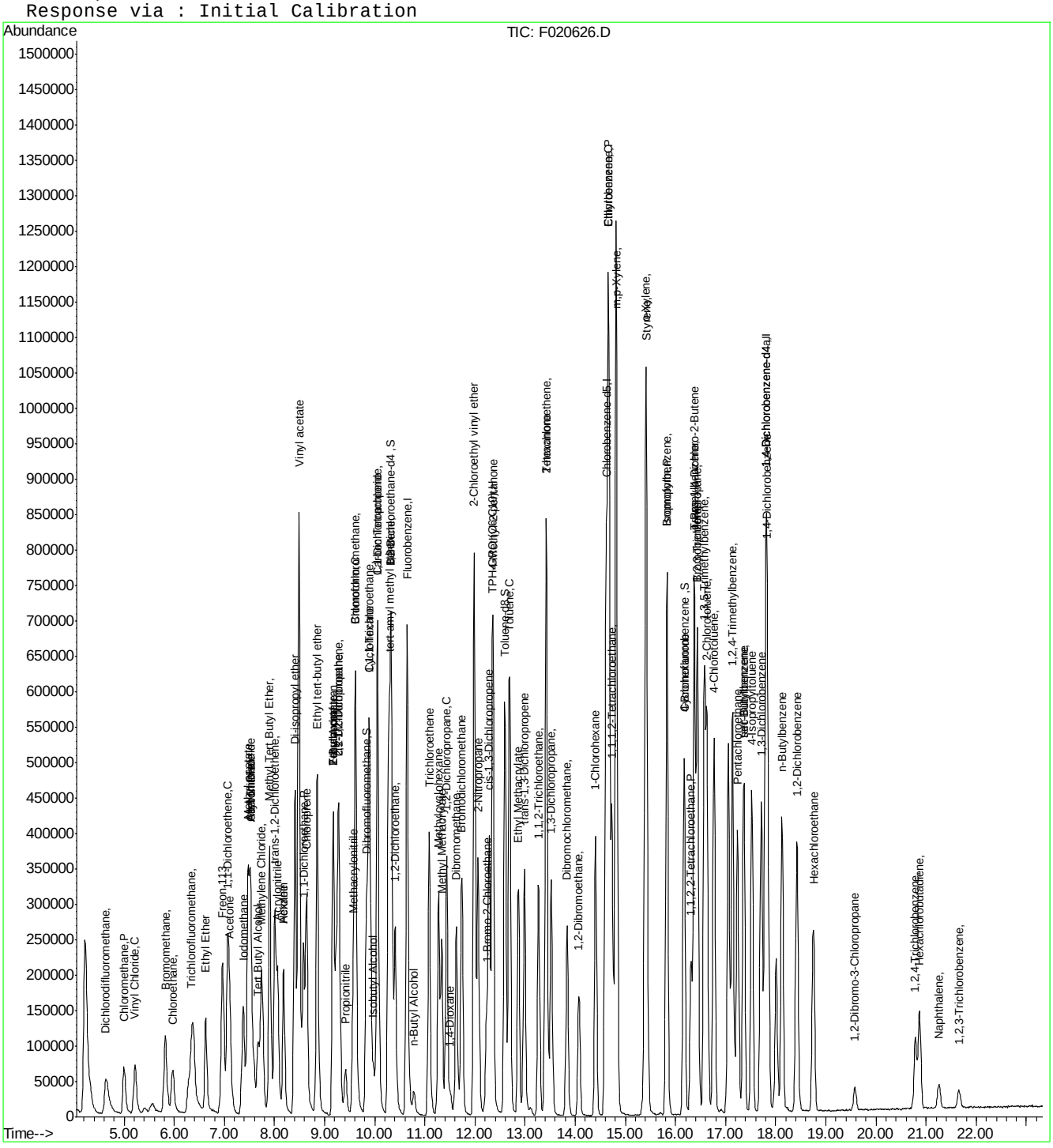
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
91)	1,3,5-Trimethylbenzene	16.58	105	604324	36.18	ug/L	100
92)	Pentachloroethane	17.24	167	167792	39.52	uL/L	100
93)	sec-Butylbenzene	17.37	105	631972	34.31	ug/L	98
94)	1,3-Dichlorobenzene	17.71	146	393189	38.24	ug/L	98
95)	4-Isopropyltoluene	17.52	119	517523	34.56	ug/L	99
96)	1,4-Dichlorobenzene	17.84	146	397753	37.56	ug/L	99
97)	tert-Butylbenzene	17.36	91	112481	35.32	ug/L	96
98)	n-Butylbenzene	18.12	91	472732	32.61	ug/L	100
99)	1,2-Dichlorobenzene	18.43	146	351129	36.39	ug/L	97
100)	1,2,4-Trimethylbenzene	17.14	105	632773	35.45	ug/L	99
101)	Hexachloroethane	18.75	119	116721	32.89	uL/L	96
102)	1,2-Dibromo-3-Chloropropan	19.57	75	20240	22.75	ug/L	95
103)	1,2,4-Trichlorobenzene	20.79	180	79598	15.22	ug/L	98
104)	Hexachlorobutadiene	20.86	225	61321	26.98	ug/L	98
105)	Naphthalene	21.25	128	66359	7.82	ug/L	94
106)	1,2,3-Trichlorobenzene	21.66	180	22089	6.12	ug/L	92
108)	TPH-GRO (C6-C10)	12.34	TIC	75613257m	2569.29	ug/kg	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
F020626.D VF3547AP9G.M Fri Oct 09 11:52:23 2009

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\VF3593\F020626.D Vial: 24
Acq On : 8 Oct 2009 8:42 pm Operator: AnjanaP
Sample : cc3547-40 Inst : GC/MS F
Misc : ms7097,vf3595,5,,,5,,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 9 11:41 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 T39169

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 AW	
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

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 Fr	
	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

6.7.1 6

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 *	
|	80	↓ -40										20µ/50ml *	
A	81	BFB										Autofind/11:58	
BEDC	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		1x	6				
BDE	96	| -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 ones 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:
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~~ 9/14/09 2			~~10ml~~ 5 ml/50ml AW	
	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

OP13202

Batch MS: 7083, 7092, 7097

Batch ID: VF 3543-3595

Date: 10/8/09 - 10/9/09

Analyst Signature:

Standard Data

Ref #	Description
A	BFB MV3825
B	Internal Standard 3851
C	8260 Standard 3854, 3855, 3862, 3863
D	8260 BS/MS/MSD 3858, 3866, 3859, 3864
E	Surrogate Standard 3852
F	GRO Marker
G	GRO Standard
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	F020603	BFB	5ml	8260	W	N/A	1	N/A	N/A	N/A	Y	40 µl/40ml/Autofill	AL
BC	04	CC3547-20										10 µl/50ml FV	
BDE	05	BS										12.5 µl/40ml	
BE	06	Blk										cleanup Blk	
	07	MB											
	08	T38404-12				<2		1x	1				
	09	T38730-3	AL 10/8/09						3				
BDE	10	T38730-3MS							2			12.5 µl/40ml	
	11	Msd							2				
BE	12	Blk				N/A		N/A	N/A			cleanup Blk	
	13	T38730-2				<2		1x	3				
	14	-1						10x	2			5ml/50ml FV	
	15	-1						50x	2			1ml/50ml FV	
	16	T38644-7						100x	3			500 µl/50ml FV	
	17	Blk				N/A		N/A	N/A			cleanup Blk	
	18												
	19	OP13202-LB				<2		10x				5ml/50ml FV	
	20	T38010-2R											
	21	T39172-2											
	22	-2MS					19					12.5 µl/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)

Form: MS015

ACCUTEST.

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg#63
Batch ID:

Date: 10/8/09 - 10/9/09

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#63

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

Solvent ID #: See pg#63

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	F020623	T39172-2 MSd	5ml	8260	W	<2	19	10x	N/A	N/A	Y	5ml/50ml / 12.5 µl/40ml	
BE	24	Blk				N/A	20	N/A				Cleanup Blk	
A	25	BFB					21					40 µl/40ml/Auto	
BC	26	CC3547-40					22					20 µl/50ml FV	
BDE	27	BS					23					12.5 µl/40ml	
BE	28	Blk					24					Cleanup Blk	
	29	MB					25						
	30	T39169-7				<2	26	1x	1				
	31	187-6					27		1				
	32	169-1					28		9				
BDE	33	-1 MS					29		8			12.5 µl/40ml	
	34	-1 MSd					29		8			↓	
BE	35	Blk				N/A	30	N/A	N/A			Cleanup Blk	
	36	T39169-2				<2	31	1x	6				
	37	-3					32		6				
	38	-4					33		5				
	39	-5					34		6				
	40	-6					35		6				
	41	T39187-1					36		6				
	42	-2					37		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)

Form: MS015

ACCUTEST.

GC/MS VOLATILE ANALYSIS LOG

Batch MS: See pg #63
Batch ID:

Date: 10/8/09 - 10/9/09

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 #63

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

See pg #63

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.
BB	F020643	T39187-3	5ml	8260	W	<2	35	1X	6	N/A	Y		AW
	44	-4							6				
	45	-5							4				
	46	Blk				N/A		N/A	N/A			cleanup pk	
	47												
	48												
	49												
	50												
	51	T39390-2				<2		1X	6			for confirmation only -	
	52	Blk				N/A	47	N/A	N/A			cleanup pk	

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: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13205-MB	J13696.D	1	10/08/09	SC	10/07/09	OP13205	EJ629

The QC reported here applies to the following samples: **Method:** SW846 8270C

T39169-1, T39169-2, T39169-3, T39169-4, T39169-5, T39169-6

CAS No.	Compound	Result	RL	MDL	Units	Q
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	64%	10-66%
4165-62-2	Phenol-d5	47%	10-53%
118-79-6	2,4,6-Tribromophenol	83%	32-128%
4165-60-0	Nitrobenzene-d5	86%	29-115%
321-60-8	2-Fluorobiphenyl	77%	34-113%
1718-51-0	Terphenyl-d14	103%	12-145%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
1708-27-6	Furan, 2,3-dihydro-3-methyl-	4.02	15	ug/l	JN
99-82-1	1-Methyl-4-(1-methylethyl)-cyclohe	4.04	7.6	ug/l	JN
1000113-52-1	2,3,3-Trimethyl-1-hexene	4.13	7.2	ug/l	JN
49622-18-6	Decane, 3,3,4-trimethyl-	4.24	9.1	ug/l	JN
20662-83-3	Oxazole, 4,5-dimethyl-	4.26	13	ug/l	JN
6846-50-0	2,2,4-Trimethyl-1,3-pentanediol di	7.17	18	ug/l	JN
1438-62-6	1-Naphthalenepropanol, .alpha.-eth	13.51	4	ug/l	JN
	Total TIC, Semi-Volatile		73.9	ug/l	J

Method Blank Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13269-MB	H35492.D	1	10/20/09	SC	10/07/09	OP13269	EH1917

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

T39169-1, T39169-2, T39169-3, T39169-4, T39169-5, T39169-6

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	98% [a]	17-131%
321-60-8	2-Fluorobiphenyl	134% [a]	15-137%
1718-51-0	Terphenyl-d14	136% [a]	10-160%

(a) Recovery was adjusted for 10x spiking.

Blank Spike/Blank Spike Duplicate Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13205-BS	J13700.D	1	10/08/09	SC	10/07/09	OP13205	EJ629
OP13205-BSD	J13701.D	1	10/08/09	SC	10/07/09	OP13205	EJ629

The QC reported here applies to the following samples: **Method:** SW846 8270C

T39169-1, T39169-2, T39169-3, T39169-4, T39169-5, T39169-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-98-5	Benzenethiol	50	11.1	22	8.4	17	28	10-98/30
105-67-9	2,4-Dimethylphenol	50	26.9	54	26.8	54	0	27-87/30
95-48-7	2-Methylphenol	50	29.7	59	29.7	59	0	25-84/30
	3&4-Methylphenol	100	55.8	56	56.1	56	1	25-77/30
108-95-2	Phenol	50	16.0	32	16.1	32	1	10-53/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	45%	45%	10-66%
4165-62-2	Phenol-d5	30%	30%	10-53%
118-79-6	2,4,6-Tribromophenol	88%	90%	32-128%
4165-60-0	Nitrobenzene-d5	73%	74%	29-115%
321-60-8	2-Fluorobiphenyl	75%	76%	34-113%
1718-51-0	Terphenyl-d14	89%	96%	12-145%

Blank Spike/Blank Spike Duplicate Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13269-BS [a]	H35493.D	1	10/20/09	SC	10/07/09	OP13269	EH1917
OP13269-BSD [a]	H35494.D	1	10/20/09	SC	10/07/09	OP13269	EH1917

The QC reported here applies to the following samples: **Method:** SW846 8270C BY SIM

T39169-1, T39169-2, T39169-3, T39169-4, T39169-5, T39169-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	5	3.0	60	3.1	62	3	10-125/30
208-96-8	Acenaphthylene	5	3.3	66	2.9	58	13	10-141/30
120-12-7	Anthracene	5	2.7	54	2.7	54	0	13-139/30
56-55-3	Benzo(a)anthracene	5	3.8	76	3.8	76	0	24-151/30
50-32-8	Benzo(a)pyrene	5	3.3	66	3.2	64	3	36-146/30
205-99-2	Benzo(b)fluoranthene	5	3.6	72	3.4	68	6	27-159/30
207-08-9	Benzo(k)fluoranthene	5	4.5	90	4.5	90	0	26-157/30
218-01-9	Chrysene	5	3.5	70	3.6	72	3	26-146/30
53-70-3	Dibenzo(a,h)anthracene	5	3.6	72	4.2	84	15	23-161/30
206-44-0	Fluoranthene	5	3.2	64	3.3	66	3	20-140/30
86-73-7	Fluorene	5	2.7	54	2.2	44	20	16-126/30
193-39-5	Indeno(1,2,3-cd)pyrene	5	3.4	68	4.1	82	19	25-153/30
91-20-3	Naphthalene	5	2.1	42	2.2	44	5	11-111/30
85-01-8	Phenanthrene	5	3.7	74	3.7	74	0	23-135/30
129-00-0	Pyrene	5	3.6	72	3.7	74	3	27-138/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	52%	48%	17-131%
321-60-8	2-Fluorobiphenyl	68%	70%	15-137%
1718-51-0	Terphenyl-d14	71%	72%	10-160%

(a) Recoveries were adjusted for 1:10 dilution of the 8270 spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP13205-MS	J13713.D	1	10/08/09	SC	10/07/09	OP13205	EJ630
OP13205-MSD	J13714.D	1	10/09/09	SC	10/07/09	OP13205	EJ630
T39314-2	J13712.D	1	10/08/09	SC	10/07/09	OP13205	EJ630

The QC reported here applies to the following samples: **Method:** SW846 8270C

T39169-1, T39169-2, T39169-3, T39169-4, T39169-5, T39169-6

CAS No.	Compound	T39314-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-98-5	Benzenethiol	10 U		100	ND	0* [a]	ND	0* [b]	nc	10-98/36
105-67-9	2,4-Dimethylphenol	5.0 U		100	64.4	64	66.0	66	2	27-87/26
95-48-7	2-Methylphenol	5.0 U		100	135	135*	65.0	65	70*	25-84/31
	3&4-Methylphenol	5.0 U		200	131	66	134	67	2	25-77/25
108-95-2	Phenol	5.0 U		100	49.4	49	50.0	50	1	10-53/35

CAS No.	Surrogate Recoveries	MS	MSD	T39314-2	Limits
367-12-4	2-Fluorophenol	59%	57%	35%	10-66%
4165-62-2	Phenol-d5	51%	50%	23%	10-53%
118-79-6	2,4,6-Tribromophenol	83%	80%	53%	32-128%
4165-60-0	Nitrobenzene-d5	72%	70%	49%	29-115%
321-60-8	2-Fluorobiphenyl	67%	64%	42%	34-113%
1718-51-0	Terphenyl-d14	95%	90%	90%	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: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1917-DFTPP
Lab File ID: H35483.D
Instrument ID: GCMSH
Injection Date: 10/20/09
Injection Time: 10:23

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	25242	40.5		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	39240	63.0		Pass
70	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
127	40.0 - 60.0% of mass 198	34233	55.0		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	62272	100.0		Pass
199	5.0 - 9.0% of mass 198	4517	7.3		Pass
275	10.0 - 30.0% of mass 198	11534	18.5		Pass
365	1.0 - 100.0% of mass 198	947	1.5		Pass
441	Present, but less than mass 443	4702	7.6	(83.5) [b]	Pass
442	40.0 - 100.0% of mass 198	29253	47.0		Pass
443	17.0 - 23.0% of mass 442	5629	9.0	(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
EH1917-IC1917	H35485.D	10/20/09	11:10	00:47	Initial cal 1
EH1917-IC1917	H35486.D	10/20/09	11:34	01:11	Initial cal 0.1
EH1917-IC1917	H35487.D	10/20/09	12:03	01:40	Initial cal 0.2
EH1917-IC1917	H35488.D	10/20/09	12:36	02:13	Initial cal 5
EH1917-IC1917	H35489.D	10/20/09	13:01	02:38	Initial cal 10
EH1917-ICC1917	H35490.D	10/20/09	13:34	03:11	Initial cal 2.5
EH1917-ICV1917	H35491.D	10/20/09	13:58	03:35	Initial cal verification 2.5
OP13269-MB	H35492.D	10/20/09	14:31	04:08	Method Blank
OP13269-BS	H35493.D	10/20/09	14:57	04:34	Blank Spike
OP13269-BSD	H35494.D	10/20/09	15:28	05:05	Blank Spike Duplicate
T39169-1	H35495.D	10/20/09	15:56	05:33	SW3:1009
T39169-2	H35496.D	10/20/09	16:24	06:01	SW4:1009
T39169-3	H35497.D	10/20/09	16:46	06:23	SW2:1009
T39169-4	H35498.D	10/20/09	17:17	06:54	SWDUP
T39169-5	H35499.D	10/20/09	17:48	07:25	MW15:1009
T39169-6	H35500.D	10/20/09	18:17	07:54	MW6:1009
ZZZZZZ	H35502.D	10/20/09	19:07	08:44	(unrelated sample)
ZZZZZZ	H35503.D	10/20/09	19:39	09:16	(unrelated sample)
ZZZZZZ	H35504.D	10/20/09	20:08	09:45	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample:	EH1917-DFTPP	**Injection Date:**	10/20/09
Lab File ID:	H35483.D	**Injection Time:**	10:23
Instrument ID:	GCMSH		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
T39314-2	H35505.D	10/20/09	20:37	10:14	(used for QC only; not part of job T39169)
ZZZZZZ	H35508.D	10/20/09	22:03	11:40	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: T39169
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: T39169
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: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ630-DFTPP
Lab File ID: J13702.D
Instrument ID: GCMSJ
Injection Date: 10/08/09
Injection Time: 18:30

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	200192	44.2		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0) [a]	Pass
69	Mass 69 relative abundance	197781	43.6		Pass
70	Less than 2.0% of mass 69	1157	0.26	(0.58) [a]	Pass
127	40.0 - 60.0% of mass 198	226389	50.0		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	453163	100.0		Pass
199	5.0 - 9.0% of mass 198	30736	6.8		Pass
275	10.0 - 30.0% of mass 198	130483	28.8		Pass
365	1.0 - 100.0% of mass 198	19379	4.3		Pass
441	Present, but less than mass 443	63435	14.0	(81.9) [b]	Pass
442	40.0 - 100.0% of mass 198	402155	88.7		Pass
443	17.0 - 23.0% of mass 442	77491	17.1	(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
EJ630-CC615	J13703.D	10/08/09	18:44	00:14	Continuing cal 50
EJ630-CC629	J13704.D	10/08/09	19:21	00:51	Continuing cal 50
T39169-1	J13706.D	10/08/09	20:23	01:53	SW3:1009
T39169-2	J13707.D	10/08/09	20:54	02:24	SW4:1009
T39169-3	J13708.D	10/08/09	21:24	02:54	SW2:1009
T39169-4	J13709.D	10/08/09	21:55	03:25	SWDUP
T39169-5	J13710.D	10/08/09	22:25	03:55	MW15:1009
T39169-6	J13711.D	10/08/09	22:56	04:26	MW6:1009
T39314-2	J13712.D	10/08/09	23:26	04:56	(used for QC only; not part of job T39169)
OP13205-MS	J13713.D	10/08/09	23:57	05:27	Matrix Spike
OP13205-MSD	J13714.D	10/09/09	00:27	05:57	Matrix Spike Duplicate
ZZZZZZ	J13715.D	10/09/09	00:57	06:27	(unrelated sample)
ZZZZZZ	J13717.D	10/09/09	01:58	07:28	(unrelated sample)
ZZZZZZ	J13718.D	10/09/09	02:28	07:58	(unrelated sample)
ZZZZZZ	J13719.D	10/09/09	02:58	08:28	(unrelated sample)
ZZZZZZ	J13720.D	10/09/09	03:28	08:58	(unrelated sample)
ZZZZZZ	J13721.D	10/09/09	03:58	09:28	(unrelated sample)
ZZZZZZ	J13722.D	10/09/09	04:28	09:58	(unrelated sample)
ZZZZZZ	J13723.D	10/09/09	04:58	10:28	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	EH1917-ICC1917	**Injection Date:**	10/20/09
Lab File ID:	H35490.D	**Injection Time:**	13:34
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	79388	5.65	50031	7.56	57496	9.57	59382	11.09	65445	13.87	20144	16.31
Upper Limit [a]	158776	6.15	100062	8.06	114992	10.07	118764	11.59	130890	14.37	40288	16.81
Lower Limit [b]	39694	5.15	25016	7.06	28748	9.07	29691	10.59	32723	13.37	10072	15.81

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
OP13269-MB	68270	5.65	55893	7.56	51852	9.57	64250	11.09	56411	13.87	16361	16.31
OP13269-BS [c]	70796	5.65	52004	7.56	57183	9.57	65243	11.09	63524	13.87	18127	16.31
OP13269-BSD [c]	67631	5.65	50168	7.56	58468	9.57	63719	11.09	61836	13.87	18470	16.31
T39169-1	62204	5.65	50791	7.56	45907	9.57	56374	11.09	43522	13.88	12333	16.33
T39169-2	66792	5.65	60616	7.56	51281	9.57	64351	11.09	51504	13.88	15221	16.33
T39169-3	70954	5.65	61377	7.56	51998	9.57	66005	11.09	52907	13.89	15926	16.33
T39169-4	78673	5.65	67314	7.56	60817	9.57	74355	11.09	59778	13.89	16528	16.33
T39169-5	74167	5.65	66862	7.56	57524	9.57	71024	11.09	50466	13.88	13737	16.33
T39169-6	73960	5.65	67000	7.56	58445	9.57	70462	11.09	52479	13.88	14088	16.33
ZZZZZZ	91272	5.65	73446	7.56	71259	9.57	83663	11.09	63416	13.87	13678	16.33
ZZZZZZ	79889	5.65	64869	7.56	62155	9.57	67095	11.09	56589	13.87	13964	16.33
ZZZZZZ	75971	5.65	62273	7.56	61917	9.57	74742	11.09	36652	13.88	6239*	16.33
T39314-2	77969	5.65	63502	7.56	59703	9.57	71349	11.09	51193	13.88	10608	16.33
ZZZZZZ	76276	5.65	60223	7.56	65125	9.57	72244	11.09	33157	13.89	4668*	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: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Check Std:	EJ630-CC615	**Injection Date:**	10/08/09
Lab File ID:	J13703.D	**Injection Time:**	18:44
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	714939	4.74	2313081	5.96	1190901	8.43	1538062	11.21	1103444	16.74	645836	19.53
Upper Limit [a]	1429878	5.24	4626162	6.46	2381802	8.93	3076124	11.71	2206888	17.24	1291672	20.03
Lower Limit [b]	357470	4.24	1156541	5.46	595451	7.93	769031	10.71	551722	16.24	322918	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
T39169-1	601226	4.73	2083762	5.94	1085879	8.41	1489657	11.20	748401	16.71	499290	19.52
T39169-2	547976	4.73	1921917	5.94	1028497	8.41	1467061	11.19	948712	16.71	667040	19.51
T39169-3	572371	4.73	2001861	5.93	1061438	8.41	1485411	11.19	922290	16.71	626911	19.52
T39169-4	589474	4.73	2049985	5.94	1076009	8.41	1498592	11.19	807713	16.71	553236	19.51
T39169-5	704576	4.73	2519638	5.94	1384023	8.41	2039115	11.20	1461726	16.72	1009848	19.52
T39169-6	587401	4.73	2003115	5.93	1028694	8.41	1369883	11.19	705408	16.71	489681	19.51
T39314-2	710108	4.73	2479682	5.94	1308571	8.41	1814832	11.19	1025776	16.71	690662	19.52
OP13205-MS	623859	4.73	2134327	5.95	1117983	8.42	1454233	11.20	975258	16.72	602311	19.53
OP13205-MSD	619023	4.73	2140655	5.95	1164370	8.42	1622337	11.20	1153967	16.73	787111	19.53
ZZZZZZ	595307	4.73	2063212	5.94	1061910	8.41	1433664	11.19	739145	16.71	518959	19.52
ZZZZZZ	565530	4.73	1984320	5.94	1031887	8.41	1390208	11.19	890309	16.71	600844	19.52
ZZZZZZ	431786	4.73	1496900	5.94	787415	8.41	1102795	11.19	687131	16.72	455399	19.52
ZZZZZZ	474184	4.73	1687796	5.94	927614	8.41	1369897	11.20	1182663	16.72	775746	19.53
ZZZZZZ	492034	4.73	1713318	5.94	891600	8.41	1193300	11.19	642717	16.72	417565	19.52
ZZZZZZ	520592	4.73	1853050	5.94	978333	8.41	1392579	11.20	897109	16.72	596254	19.52
ZZZZZZ	566439	4.73	1986599	5.94	1008291	8.41	1337048	11.19	720271	16.72	460635	19.53
ZZZZZZ	742968	4.73	2500454	5.94	1216511	8.41	1571718	11.20	854985	16.72	543937	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 Surrogate Recovery Summary

Job Number: T39169
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
T39169-1	J13706.D	60.0	43.0	86.0	87.0	78.0	138.0
T39169-2	J13707.D	36.0	25.0	52.0	52.0	45.0	99.0
T39169-3	J13708.D	34.0	23.0	49.0	50.0	44.0	107.0
T39169-4	J13709.D	58.0	41.0	75.0	85.0	77.0	114.0
T39169-5	J13710.D	39.0	26.0	47.0	55.0	48.0	65.0
T39169-6	J13711.D	60.0	42.0	81.0	86.0	79.0	104.0
OP13205-BS	J13700.D	45.0	30.0	88.0	73.0	75.0	89.0
OP13205-BSD	J13701.D	45.0	30.0	90.0	74.0	76.0	96.0
OP13205-MB	J13696.D	64.0	47.0	83.0	86.0	77.0	103.0
OP13205-MS	J13713.D	59.0	51.0	83.0	72.0	67.0	95.0
OP13205-MSD	J13714.D	57.0	50.0	80.0	70.0	64.0	90.0

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: T39169
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
T39169-1	H35495.D	91.0 [a]	121.0 [a]	120.0 [a]
T39169-2	H35496.D	50.0 [a]	68.0 [a]	110.0 [a]
T39169-3	H35497.D	52.0 [a]	62.0 [a]	111.0 [a]
T39169-4	H35498.D	81.0 [a]	121.0 [a]	106.0 [a]
T39169-5	H35499.D	71.0 [a]	117.0 [a]	113.0 [a]
T39169-6	H35500.D	78.0 [a]	136.0 [a]	111.0 [a]
OP13269-BS	H35493.D	52.0	68.0	71.0
OP13269-BSD	H35494.D	48.0	70.0	72.0
OP13269-MB	H35492.D	98.0 [a]	134.0 [a]	136.0 [a]

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.

Initial Calibration Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1917-ICC1917
Lab FileID: H35490.D

```
                        Response Factor Report  TXMSH

 Method       : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
 Title        : SIM METHOD FOR BNA
 Last Update  : Tue Oct 20 14:24:14 2009
 Response via : Initial Calibration

 Calibration Files
 0.1 =H35486.D    5   =H35488.D    1   =H35485.D    2.5 =H35490.D
 0.2 =H35487.D    10  =H35489.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   0.217 0.424 0.278 0.361 0.240 0.426       0.324  28.37
            ---- Quadratic regression ----  Coefficient =  0.9986
              Response Ratio = -0.08350 + 0.41144 *A + 0.00179 *A^2

 6)T Naphthalene       1.531 1.753 1.622 1.563 1.430 1.875       1.629   9.88
 7)  2-Methylnaphthale 0.830 1.600 2.030 1.658 0.861 1.278       1.376  34.55
            ---- Quadratic regression ----  Coefficient =  0.9991
              Response Ratio = -0.02423 + 1.92984 *A + -0.25653 *A^2

 8)  1-Methylnaphthale 3.067 1.783 2.042 1.729 1.728 1.662       2.002  26.89
            ---- Quadratic regression ----  Coefficient =  0.9995
              Response Ratio = 0.01690 + 1.83572 *A + -0.07137 *A^2


 9) I   Acenaphthene-d10      ----------------ISTD---------------------
10)S 2-Fluorobiphenyl  2.660 2.030 2.403 1.853 2.612 2.931       2.415  16.86
            ---- Quadratic regression ----  Coefficient =  0.9989
              Response Ratio = 0.61420 + 1.13124 *A + 0.13949 *A^2

11)T Acenaphthylene    2.689 3.486 3.475 3.293 2.401 3.427       3.129  14.89
12)T Acenaphthene      2.639 2.266 2.395 2.145 2.492 2.380       2.386   7.20
13)  Dibenzofuran      2.475 1.771 2.062 1.627 2.580 1.584       2.016  21.39
            ---- Quadratic regression ----  Coefficient =  0.9984
              Response Ratio = 0.02227 + 1.82434 *A + -0.09825 *A^2

14)T Fluorene          2.140 1.226 1.377 1.255 1.955 1.054       1.501  29.28
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = 0.01910 + 1.34089 *A + -0.11726 *A^2


15) I   Phenanthrene-d10      ----------------ISTD---------------------
16)S 2,4,6-Tribromophe 0.229 0.220 0.197 0.193 0.158 0.247       0.207  15.26
            ---- Quadratic regression ----  Coefficient =  0.9998
              Response Ratio = -0.00730 + 0.18774 *A + 0.00241 *A^2

17)  Pentachlorophenol                                          0.000  -1.00
18)T Phenanthrene      2.474 2.079 2.272 2.080 1.917 2.120       2.157   8.91
19)T Anthracene        2.668 2.138 2.297 2.310 2.117 2.133       2.277   9.21
20)T Fluoranthene      2.204 2.349 2.165 2.104 1.844 2.299       2.161   8.28

21) I   Chrysene-d12          ----------------ISTD---------------------
```

Initial Calibration Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1917-ICC1917
Lab FileID: H35490.D

```
22)T Pyrene            2.434 2.395 2.265 2.259 1.850 2.394       2.266   9.56
23)S Terphenyl-d14     0.534 0.526 0.454 0.454 0.400 0.647       0.502  17.25
            ---- Quadratic regression ----  Coefficient =  1.0000
              Response Ratio = 0.01260 + 0.39735 *A + 0.01990 *A^2

24)T Benzo[a]anthracen 1.466 1.588 1.463 1.498 1.112 1.641       1.461  12.67
25)T Chrysene          1.791 1.438 1.406 1.450 1.289 1.356       1.455  12.02

26) I   Perylene-d12          ----------------ISTD---------------------
27)T Benzo[b]fluoranth 0.853 1.996 1.584 1.582 0.768 2.578       1.560  43.98
            ---- Quadratic regression ----  Coefficient =  0.9998
              Response Ratio = -0.01918 + 1.39554 *A + 0.47648 *A^2

28)T Benzo[k]fluoranth 2.018 2.401 2.086 2.508 1.729 2.156       2.150  12.99
29)T Benzo[a]pyrene    0.812 1.625 1.390 1.541 0.659 1.721       1.291  34.59
            ---- Quadratic regression ----  Coefficient =  1.0000
              Response Ratio = -0.03665 + 1.56217 *A + 0.06942 *A^2

30)T Indeno[1,2,3-cd]p 0.204 0.558 0.419 0.551 0.291 0.608       0.438  37.12
            ---- Quadratic regression ----  Coefficient =  0.9997
              Response Ratio = -0.01368 + 0.53093 *A + 0.03285 *A^2

31)T Dibenz[a,h]anthra 0.152 0.368 0.237 0.360 0.086 0.433       0.273  50.05
            ---- Quadratic regression ----  Coefficient =  0.9994
              Response Ratio = -0.01073 + 0.32600 *A + 0.04438 *A^2

32)T Benzo[g,h,i]peryl 0.149 0.406 0.326 0.376 0.203 0.441       0.317  36.81
            ---- Quadratic regression ----  Coefficient =  0.9999
              Response Ratio = -0.00939 + 0.37654 *A + 0.02753 *A^2

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

          H10209SP.M        Tue Oct 20 14:25:17 2009
```

7.7.1

7

Initial Calibration Verification

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EH1917-ICV1917
Lab FileID: H35491.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\EH1917\H35491.D            Vial: 9
Acq On    : 20 Oct 2009   1:58 pm                   Operator: sheilac
Sample    : icv1917-2.5                             Inst    : TXMSH
Misc      : OP12779,EH1917,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title        : SIM METHOD FOR BNA
Last Update  : Tue Oct 20 14:27:24 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	151	-0.02	5.63
2	I	N-Nitrosodimethylamine		----------NA----------				
3	I	N-Nitroso-di-n-propylamin		----------NA----------				
4	I	Naphthalene-d8	1.000	1.000	0.0	139	0.00	7.56
5	S	Nitrobenzene-d5		----------NA----------				
6	T	Naphthalene	1.629	1.403	13.9	125	-0.03	7.56
		----------	Amount	Calc.	%Drift		----------	
7		2-Methylnaphthalene	2.500	2.219	11.2	130	0.00	8.45
8		1-Methylnaphthalene	2.500	1.985	20.6	117	0.00	8.56
		----------	AvgRF	CCRF	%Dev		----------	
9	I	Acenaphthene-d10	1.000	1.000	0.0	139	0.00	9.57
10	S	2-Fluorobiphenyl		----------NA----------				
11	T	Acenaphthylene	3.129	3.230	-3.2	136	0.00	9.41
12	T	Acenaphthene	2.386	2.283	4.3	147	0.00	9.60
		----------	Amount	Calc.	%Drift		----------	
13		Dibenzofuran	2.500	1.989	20.4	123	-0.03	9.78
14	T	Fluorene	2.500	2.046	18.2	119	0.00	10.13
		----------	AvgRF	CCRF	%Dev		----------	
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	2.157	2.243	-4.0	138	0.00	11.11
19	T	Anthracene	2.277	2.293	-0.7	127	0.00	11.17
20	T	Fluoranthene	2.161	2.303	-6.6	140	0.00	12.29
21	I	Chrysene-d12	1.000	1.000	0.0	128	0.00	13.87
22	T	Pyrene	2.266	2.353	-3.8	134	0.00	12.51
23	S	Terphenyl-d14		----------NA----------				
24	T	Benzo[a]anthracene	1.461	1.683	-15.2	144	0.00	13.85
25	T	Chrysene	1.455	1.474	-1.3	131	0.00	13.90
26	I	Perylene-d12	1.000	1.000	0.0	142	0.00	16.31
		----------	Amount	Calc.	%Drift		----------	
27	T	Benzo[b]fluoranthene	2.500	2.550	-2.0	152	0.00	15.59

Initial Calibration Verification

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EH1917-ICV1917
Lab FileID: H35491.D

			AvgRF	CCRF	%Dev			
28	T	Benzo[k]fluoranthene	2.150	2.519	-17.2	142	0.00	15.64

			Amount	Calc.	%Drift			
29	T	Benzo[a]pyrene	2.500	2.411	3.6	137	0.00	16.21
30	T	Indeno[1,2,3-cd]pyrene	2.500	2.494	0.2	136	-0.02	18.63
31	T	Dibenz[a,h]anthracene	2.500	2.691	-7.6	144	0.00	18.65
32	T	Benzo[g,h,i]perylene	2.500	2.572	-2.9	147	0.00	19.24

H35490.D H10209SP.M Tue Oct 20 14:30:46 2009

Initial Calibration Summary

Job Number: T39169
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: T39169 **Sample:** EJ615-ICC615
Account: ERMUTSLC ERM Salt Lake City **Lab FileID:** J13340.D
Project: Vertellus-Provo

```
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
```

7.7.3

7

Initial Calibration Verification

Job Number: T39169
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: T39169
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: T39169
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
```

7.7.4

7

Initial Calibration Summary

Job Number: T39169
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: T39169
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
```

7.7.5

7

Initial Calibration Verification

Job Number: T39169
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: T39169
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

7.7.6

7

Continuing Calibration Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ630-CC615
Lab FileID: J13703.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\ej630\j13703.D Vial: 2
Acq On : 8 Oct 2009 6:44 pm Operator: sheilac
Sample : cc615-50 Inst : AGC-VOA-MSJ
Misc : op12949,Ej630,1000,,,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 09:24:30 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	155	0.01	4.74
2		n-Nitrosodimethylamine	0.672	0.682	-1.5	151	0.03	2.48
3		Pyridine	1.186	1.250	-5.4	148	0.03	2.46
4	S	2-Fluorophenol (SURR)	1.255	1.333	-6.2	153	0.04	3.72
5	S	Phenol-d5 (SURR)	1.569	1.775	-13.1	157	0.02	4.52
6	C	Phenol	1.698	1.936	-14.0	158	0.00	4.53
		----------	Amount	Calc.	%Drift		----------	
7		Aniline	50.000	54.757	-9.5	166	0.04	4.49
		----------	AvgRF	CCRF	%Dev		----------	
8		bis(2-Chloroethyl)ether	1.664	1.427	14.2	126	0.00	4.53
9		2-Chlorophenol	1.317	1.305	0.9	144	0.00	4.59
10		1,3-Dichlorobenzene	1.492	1.471	1.4	143	0.01	4.69
11	C	1,4-Dichlorobenzene	1.601	1.631	-1.9	149	0.01	4.75
12		Benzyl Alcohol	0.918	0.901	1.9	140	0.02	4.89
13		1,2-Dichlorobenzene	1.501	1.512	-0.7	145	0.00	4.88
14		2-Methylphenol	1.190	1.174	1.3	147	0.00	5.00
15		bis(2-chloroisopropyl)eth	2.108	1.885	10.6	135	0.01	4.98
16		4-Methylphenol	1.259	1.199	4.8	143	0.01	5.14
17		m+p-Cresols	1.259	1.199	4.8	143	0.01	5.14
18	P	n-Nitroso-di-n-propylamin	1.142	1.016	11.0	133	0.00	5.12
19		Hexachloroethane	0.584	0.589	-0.9	146	0.01	5.18
20	I	Naphthalene-d8	1.000	1.000	0.0	137	0.01	5.96
21	S	Nitrobenzene-d5 (SURR)	0.419	0.452	-7.9	139	-0.06	5.24
22		Nitrobenzene	0.412	0.443	-7.5	139	-0.05	5.26
23		Isophorone	0.756	0.709	6.2	124	-0.06	5.49
24	C	2-Nitrophenol	0.189	0.200	-5.8	137	-0.05	5.56
25		2,4-Dimethylphenol	0.313	0.330	-5.4	130	-0.06	5.64
26		bis(2-Chloroethoxy)methan	0.417	0.427	-2.4	134	-0.05	5.70
		----------	Amount	Calc.	%Drift		----------	
27		Benzoic Acid	50.000	75.624	-51.2#	167	-0.02	5.87
		----------	AvgRF	CCRF	%Dev		----------	
28	C	2,4-Dichlorophenol	0.276	0.300	-8.7	140	-0.06	5.84
29		1,2,4-Trichlorobenzene	0.332	0.345	-3.9	133	-0.06	5.89
30		Naphthalene	1.089	1.147	-5.3	135	-0.06	5.98
		----------	Amount	Calc.	%Drift		----------	
31		4-Chloroaniline	50.000	52.726	-5.5	140	-0.06	6.05

Continuing Calibration Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ630-CC615
Lab FileID: J13703.D

			AvgRF	CCRF	%Dev			
32	C	Hexachlorobutadiene	0.208	0.231	-11.1	144	-0.05	6.12
33	C	4-Chloro-3-methylphenol	0.311	0.309	0.6	128	-0.05	6.68
34		2-Methylnaphthalene	0.666	0.662	0.6	126	0.00	6.82
35		1-Methylnaphthalene	0.697	0.690	1.0	126	0.00	6.96
36	I	Acenaphthene-d10	1.000	1.000	0.0	126	0.01	8.43
			Amount	Calc.	%Drift			
37	P	Hexachlorocyclopentadiene	50.000	61.760	-23.5	138	0.01	7.05
			AvgRF	CCRF	%Dev			
38	C	2,4,6-Trichlorophenol	0.334	0.347	-3.9	123	0.01	7.26
			Amount	Calc.	%Drift			
39		2,4,5-Trichlorophenol	50.000	46.108	7.8	119	0.00	7.33
			AvgRF	CCRF	%Dev			
40	S	2-Fluorobiphenyl (SURR)	1.558	1.616	-3.7	122	-0.19	7.36
41		2-Chloronaphthalene	1.118	1.160	-3.8	123	-0.19	7.53
42		2-Nitroaniline	0.376	0.385	-2.4	122	-0.20	7.72
43		Dimethylphthalate	1.343	1.214	9.6	109	0.00	8.05
44		Acenaphthylene	1.894	1.849	2.4	115	-0.21	8.19
45		2,6-Dinitrotoluene	0.316	0.287	9.2	110	0.00	8.13
			Amount	Calc.	%Drift			
46		3-Nitroaniline	50.000	50.801	-1.6	128	-0.20	8.42
			AvgRF	CCRF	%Dev			
47	C	Acenaphthene	1.113	1.095	1.6	117	-0.20	8.49
			Amount	Calc.	%Drift			
48	P	2,4-Dinitrophenol	50.000	54.843	-9.7	139	-0.19	8.60
49	P	4-Nitrophenol	50.000	37.062	25.9#	95	0.00	8.87
			AvgRF	CCRF	%Dev			
50		Dibenzofuran	1.590	1.538	3.3	115	-0.21	8.79
51		2,4-Dinitrotoluene	0.378	0.329	13.0	102	0.00	8.83
			Amount	Calc.	%Drift			
52		2,3,4,6-Tetrachlorophenol	50.000	45.269	9.5	112	-0.21	9.06
			AvgRF	CCRF	%Dev			
53		Diethylphthalate	1.394	1.228	11.9	105	-0.12	9.30
54		Fluorene	1.386	1.298	6.3	111	0.00	9.41
			Amount	Calc.	%Drift			
55		4-Chlorophenyl-phenylethe	50.000	44.915	10.2	113	-0.21	9.43
			AvgRF	CCRF	%Dev			
56		4-Nitroaniline	0.226	0.213	5.8	111	-0.21	9.54
57	I	Phenanthrene-d10	1.000	1.000	0.0	113	0.00	11.21
58		1,2-Diphenylhydrazine	1.017	1.002	1.5	109	-0.07	9.74
			Amount	Calc.	%Drift			
59		4,6-Dinitro-2-methylpheno	50.000	48.680	2.6	112	-0.07	9.60
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ630-CC615
Lab FileID: J13703.D

60		Diphenylamine	0.749	0.774	-3.3	111	-0.08	9.68
61	C	n-Nitrosodiphenylamine	0.749	0.774	-3.3	111	-0.08	9.68
62	S	2,4,6-Tribromophenol (SUR	0.135	0.140	-3.7	112	-0.08	9.88
63		4-Bromophenyl-phenylether	0.253	0.258	-2.0	110	-0.07	10.36
64		Hexachlorobenzene	0.275	0.265	3.6	106	0.00	10.48
		----------	Amount	Calc.	%Drift		----------	
65	C	Pentachlorophenol	50.000	45.524	9.0	101	0.01	10.91
		----------	AvgRF	CCRF	%Dev		----------	
66		Phenanthrene	1.192	1.156	3.0	106	0.00	11.26
67		Anthracene	1.147	1.120	2.4	106	-0.07	11.36
68		Carbazole	0.924	0.866	6.3	103	-0.06	11.74
69		Di-n-butylphthalate	1.431	1.274	11.0	100	-0.03	12.56
70	C	Fluoranthene	1.080	0.935	13.4	99	0.00	13.70
71	I	Chrysene-d12	1.000	1.000	0.0	129	0.00	16.74
		----------	Amount	Calc.	%Drift		----------	
72		Benzidine	50.000	57.116	-14.2	150	-0.03	14.05
		----------	AvgRF	CCRF	%Dev		----------	
73		Pyrene	1.409	1.291	8.4	99	-0.04	14.16
74	S	Terphenyl-d14	0.955	0.890	6.8	103	-0.02	14.57
75		Butylbenzylphthalate	0.628	0.566	9.9	107	0.00	15.67
76		Benzo(a)anthracene	1.125	1.093	2.8	121	0.00	16.71
77		3,3'-Dichlorobenzidine	0.276	0.304	-10.1	176	0.01	16.72
78		Chrysene	0.949	0.934	1.6	121	0.00	16.79
79		bis(2-Ethylhexyl)phthalat	0.843	0.746	11.5	116	0.00	16.95
80	I	Perylene-d12	1.000	1.000	0.0	129	0.00	19.53
81	C	Di-n-octylphthalate	1.916	1.916	0.0	127	0.00	18.24
82		Benzo(b)fluoranthene	1.322	1.330	-0.6	126	0.00	18.85
83		Benzo(k)fluoranthene	1.207	1.306	-8.2	129	0.00	18.90
84	C	Benzo(a)pyrene	1.129	1.150	-1.9	126	0.10	19.43
85		Indeno(1,2,3-cd)pyrene	0.952	1.013	-6.4	124	0.01	21.63
86		Dibenz(a,h)anthracene	0.790	0.845	-7.0	125	0.00	21.66
87		Benzo(g,h,i)perylene	0.719	0.759	-5.6	120	0.00	22.22

(#) = Out of Range SPCC's out = 0 CCC's out = 0
j13340.D ej615mg.m Fri Oct 09 09:45:02 2009

7.2.7

7

Continuing Calibration Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo
Sample: EJ630-CC629
Lab FileID: J13704.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\ej630\j13704.D            Vial: 3
Acq On    :  8 Oct 2009   7:21 pm                   Operator: sheilac
Sample    : cc629-50,(Bzth+Resor)                   Inst    : AGC-VOA-MSJ
Misc      : op12949,Ej630,1000,,,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	136	0.00	4.73
2		Pyridine		----------NA----------				
3	S	2-Fluorophenol (SURR)	1.540	1.531	0.6	137	0.00	3.72
4		Benzenethiol	1.540	1.576	-2.3	141	0.00	4.41
5	S	Phenol-d5 (SURR)	1.959	1.966	-0.4	138	0.00	4.51
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#	-0.19	4.73
11		2-Methylphenol		----------NA----------				
12		4-Methylphenol		----------NA----------				
13		m+p-Cresols		----------NA----------				
14	I	Naphthalene-d8	1.000	1.000	0.0	135	0.01	5.95
15	S	Nitrobenzene-d5 (SURR)	0.498	0.496	0.4	135	0.00	5.23
16		2,4-Dimethylphenol		----------NA----------				
17		Naphthalene		----------NA----------				
18		Quinoline		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
19		Resorcinol	50.000	47.900	4.2	131	0.00	6.59
		----------	AvgRF	CCRF	%Dev		----------	
20		1-Methylnaphthalene		----------NA----------				
21	I	Acenaphthene-d10	1.000	1.000	0.0	129	0.01	8.42
22	S	2-Fluorobiphenyl (SURR)	1.640	1.673	-2.0	132	0.00	7.35
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	124	0.01	11.20
28	S	2,4,6-Tribromophenol (SUR	0.136	0.136	0.0	124	0.00	9.87
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	106	0.01	16.72
34		Pyrene		----------NA----------				

Continuing Calibration Summary

Job Number: T39169
Account: ERMUTSLC ERM Salt Lake City
Project: Vertellus-Provo

Sample: EJ630-CC629
Lab FileID: J13704.D

35	S	Terphenyl-d14	1.227	1.299	-5.9	110	0.00	14.57
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	116	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----------					

j13689.D ej629ben+res.m Fri Oct 09 15:06:44 2009

7.7.8

7

GC/MS Semi-volatiles

Raw Data

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13706.D
Acq On : 8 Oct 2009 8:23 pm
Operator : sheilac
Sample : t39169-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 09 09:16:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.731	152	601226	40.00	ug/ml	0.00
20) Naphthalene-d8	5.940	136	2083762	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.411	164	1085879	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.198	188	1489657	40.00	ug/ml	0.00
71) Chrysene-d12	16.712	240	748401	40.00	ug/ml	-0.02
80) Perylene-d12	19.520	264	499290	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.726	112	1134993	60.16	ug/ml	0.05
Spiked Amount 100.000	Range 10 - 66		Recovery = 60.16%			
5) Phenol-d5 (SURR)	4.501	99	1006761	42.69	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 42.69%			
21) Nitrobenzene-d5 (SURR)	5.223	82	954293	43.67	ug/ml	-0.08
Spiked Amount 50.000	Range 29 - 115		Recovery = 87.34%			
40) 2-Fluorobiphenyl (SURR)	7.341	172	1725406	39.18	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 78.36%			
62) 2,4,6-Tribromophenol (...	9.860	330	431224	86.04	ug/ml	-0.10
Spiked Amount 100.000	Range 32 - 128		Recovery = 86.04%			
74) Terphenyl-d14	14.567	244	1228991	68.77	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 137.54%			

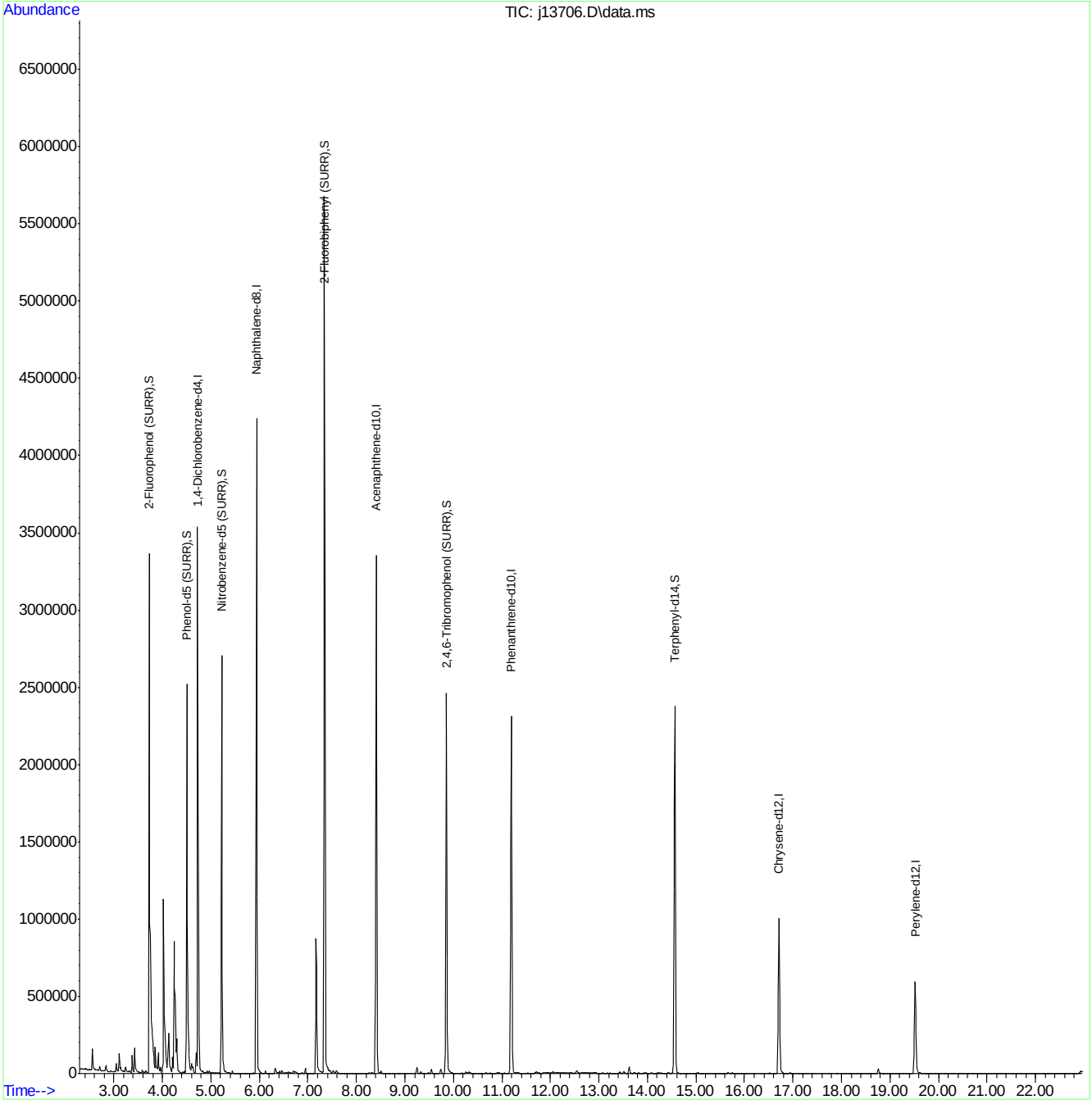
Target Compounds Qvalue

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

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13706.D
Acq On : 8 Oct 2009 8:23 pm
Operator : sheilac
Sample : t39169-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 09 09:16:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13706.D
Acq On : 8 Oct 2009 8:23 pm
Operator : sheilac
Sample : t39169-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 5 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: j13706.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.554	48	50	63	rVB	135190	132651	1.78%	0.253%
2	3.111	150	154	157	rBV2	116935	110053	1.48%	0.210%
3	3.378	200	204	210	rBV	109519	114814	1.54%	0.219%
4	3.426	210	213	229	rVB	156498	190864	2.56%	0.364%
5	3.726	266	269	272	rBV	3357542	3113399	41.81%	5.940%
6	3.854	290	293	298	rVV2	140986	135542	1.82%	0.259%
7	3.913	302	304	310	rVB	120926	111771	1.50%	0.213%
8	4.025	322	325	328	rBV	1095150	1078990	14.49%	2.059%
9	4.047	328	329	338	rVV2	410812	476799	6.40%	0.910%
10	4.132	338	345	356	rVB2	254218	510028	6.85%	0.973%
11	4.212	356	360	362	rBV	98012	99346	1.33%	0.190%
12	4.244	362	366	367	rVV	835930	729607	9.80%	1.392%
13	4.260	367	369	374	rVV	759411	859589	11.54%	1.640%
14	4.298	374	376	381	rVB	210764	183800	2.47%	0.351%
15	4.501	410	414	430	rBV	2515337	3141251	42.18%	5.994%
16	4.694	446	450	453	rBV	132247	142648	1.92%	0.272%
17	4.726	453	456	469	rVB	3526412	4048208	54.36%	7.724%
18	5.223	544	549	561	rBV	2701517	2998687	40.27%	5.721%
19	5.940	677	683	691	rBV	4238026	4825194	64.80%	9.206%
20	7.170	907	913	935	rBV	873697	1205163	16.18%	2.299%
21	7.341	938	945	955	rBV	5670050	7446824	100.00%	14.209%
22	8.411	1136	1145	1156	rBV	3355319	4878803	65.52%	9.309%
23	9.855	1407	1415	1433	rBV	2462320	4034913	54.18%	7.699%
24	11.198	1653	1666	1681	rBV2	2311818	4201321	56.42%	8.016%
25	13.621	2113	2119	2130	rBV2	41531	75909	1.02%	0.145%
26	14.567	2283	2296	2310	rBV2	2376282	4207302	56.50%	8.028%
27	16.712	2687	2697	2717	rBV	1003086	2024069	27.18%	3.862%
28	19.520	3211	3222	3241	rBV	596811	1333340	17.90%	2.544%

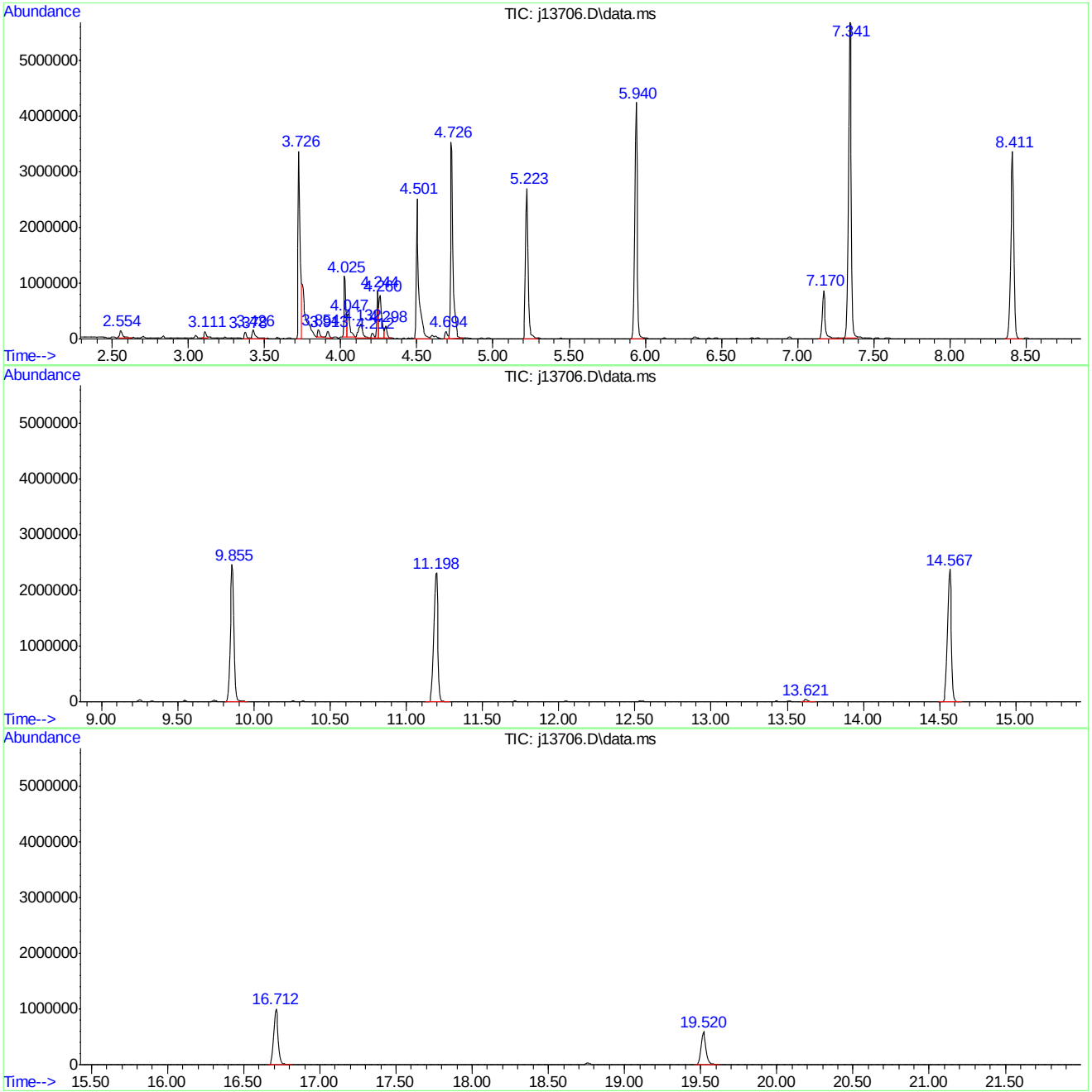
Sum of corrected areas: 52410885

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13706.D
Acq On : 8 Oct 2009 8:23 pm
Operator : sheilac
Sample : t39169-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P



ej615mg.m Fri Oct 09 15:58:11 2009 Page: 2

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13706.D
Acq On : 8 Oct 2009 8:23 pm
Operator : sheilac
Sample : t39169-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

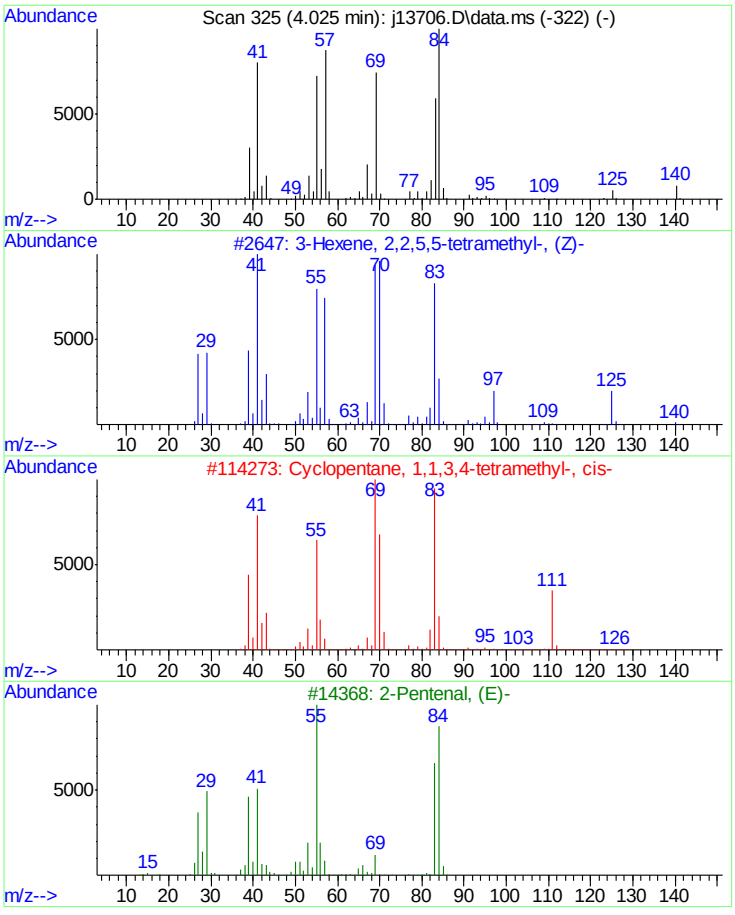
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

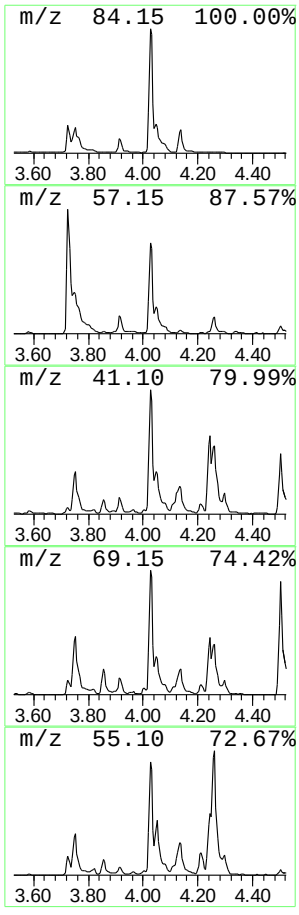
****

Peak Number 1 3-Hexene, 2,2,5,5-tetrameth... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.025	10.66 ug/ml	1078990	1,4-Dichlorobenzene-d4	4.731

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexene, 2,2,5,5-tetramethyl-, ...	140	C10H20	000692-47-7	43
2	Cyclopentane, 1,1,3,4-tetramethy...	126	C9H18	053907-60-1	43
3	2-Pentenal, (E)-	84	C5H8O	001576-87-0	43
4	Furan, 2,3-dihydro-4-methyl-	84	C5H8O	034314-83-5	38
5	Pentane, 3-methylene-	84	C6H12	000760-21-4	38





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13706.D
Acq On : 8 Oct 2009 8:23 pm
Operator : sheilac
Sample : t39169-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

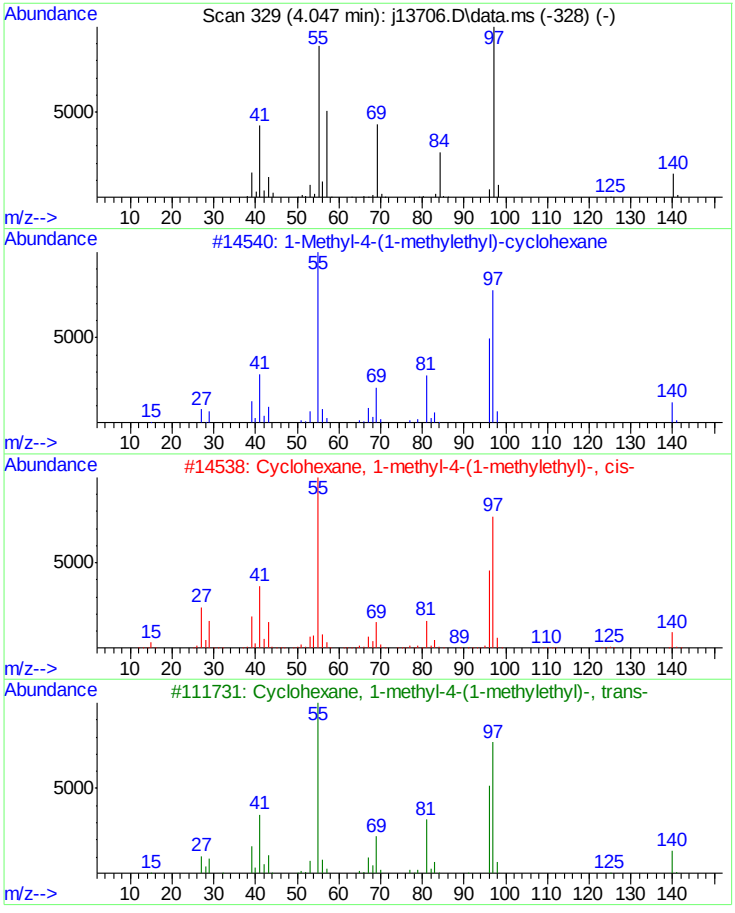
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

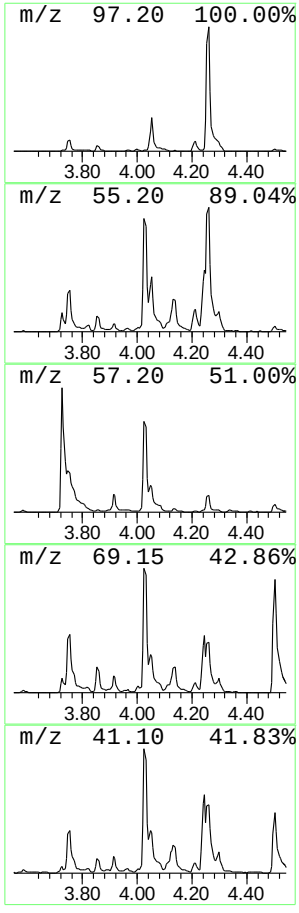
****

Peak Number 2 1-Methyl-4-(1-methylethyl)-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.047	4.71 ug/ml	476799	1,4-Dichlorobenzene-d4	4.731

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyl-4-(1-methylethyl)-cyclo...	140	C10H20	000099-82-1	72
2	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	006069-98-3	59
3	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	001678-82-6	59
4	Cyclohexane, 1-isopropyl-3-methy...	140	C10H20	1000158-54-3	59
5	3-Hexene, 3-ethyl-2,5-dimethyl-	140	C10H20	062338-08-3	53





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13706.D
Acq On : 8 Oct 2009 8:23 pm
Operator : sheilac
Sample : t39169-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

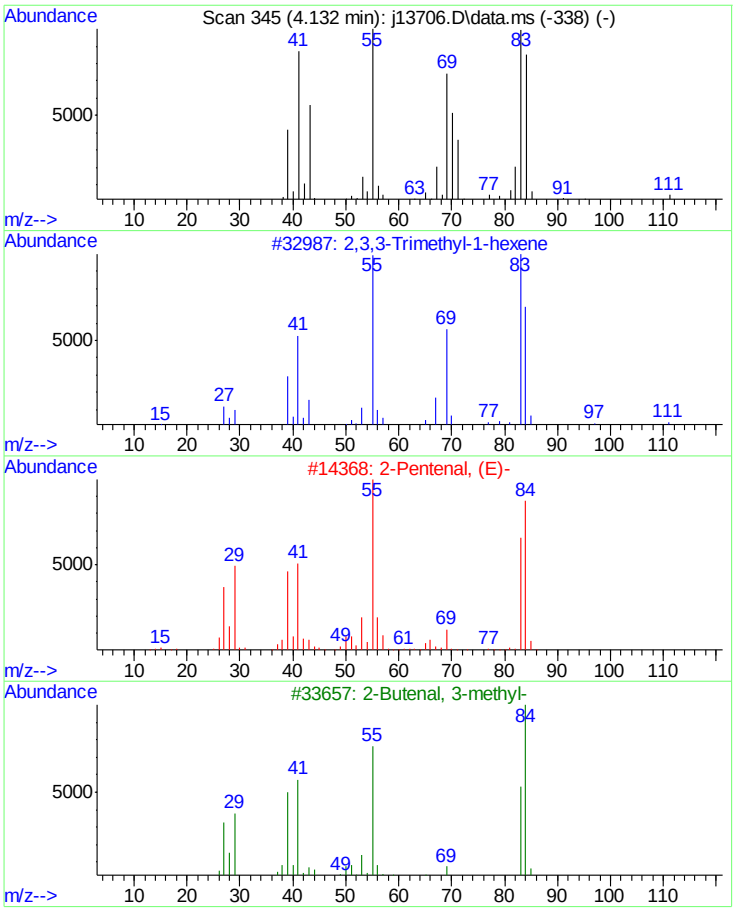
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

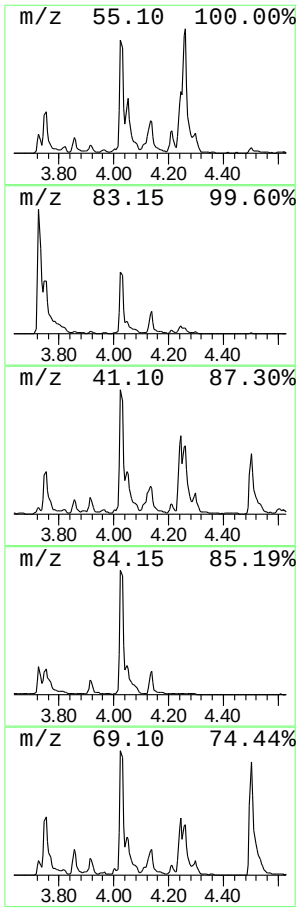
****

Peak Number 3 2,3,3-Trimethyl-1-hexene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.132	5.04 ug/ml	510028	1,4-Dichlorobenzene-d4	4.731

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3,3-Trimethyl-1-hexene	126	C9H18	1000113-52-1	53
2	2-Pentenal, (E)-	84	C5H8O	001576-87-0	38
3	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	35
4	2-Pentene, 4-methyl-, (Z)-	84	C6H12	000691-38-3	30
5	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	27





8.1.2 8

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13706.D
Acq On : 8 Oct 2009 8:23 pm
Operator : sheilac
Sample : t39169-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

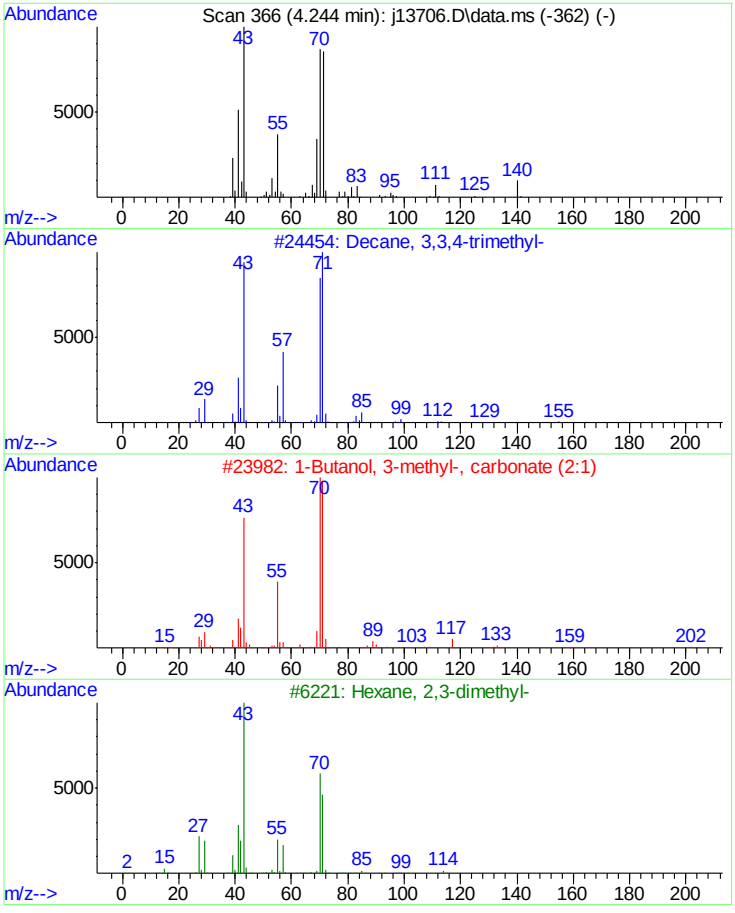
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

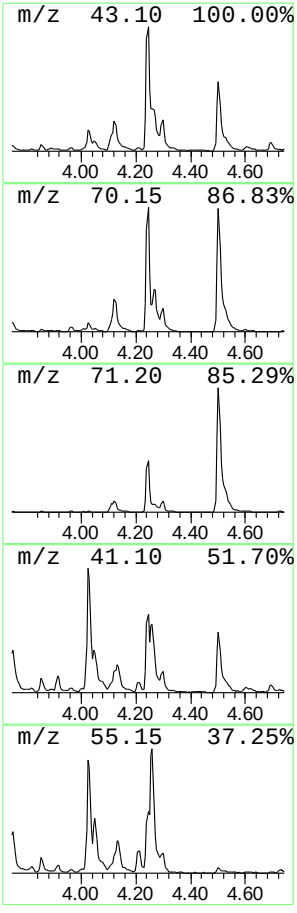
****

Peak Number 4 Decane, 3,3,4-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.244	7.21 ug/ml	729607	1,4-Dichlorobenzene-d4	4.731

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	72
2	1-Butanol, 3-methyl-, carbonate ...	202	C11H22O3	002050-95-5	64
3	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	64
4	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	56
5	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	56





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13706.D
Acq On : 8 Oct 2009 8:23 pm
Operator : sheilac
Sample : t39169-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

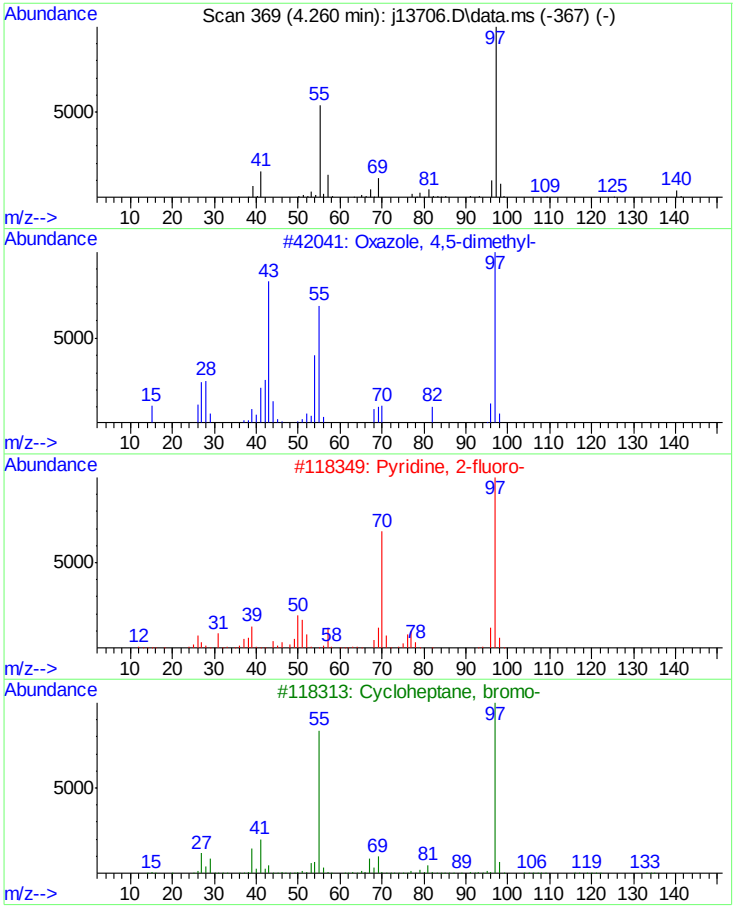
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

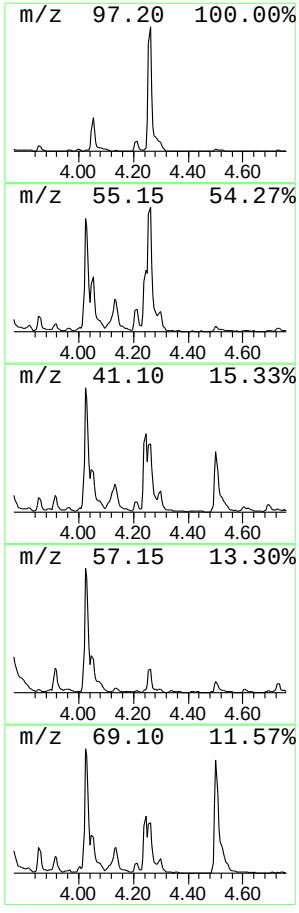
****

Peak Number 5 Oxazole, 4,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.260	8.49 ug/ml	859589	1,4-Dichlorobenzene-d4	4.731

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxazole, 4,5-dimethyl-	97	C5H7NO	020662-83-3	64
2	Pyridine, 2-fluoro-	97	C5H4FN	000372-48-5	64
3	Cycloheptane, bromo-	176	C7H13Br	002404-35-5	64
4	Pyridine, 2-fluoro-	97	C5H4FN	000372-48-5	64
5	4-Hepten-3-one, 2,6-dimethyl-	140	C9H16O	056259-14-4	59





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13706.D
Acq On : 8 Oct 2009 8:23 pm
Operator : sheilac
Sample : t39169-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 5 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

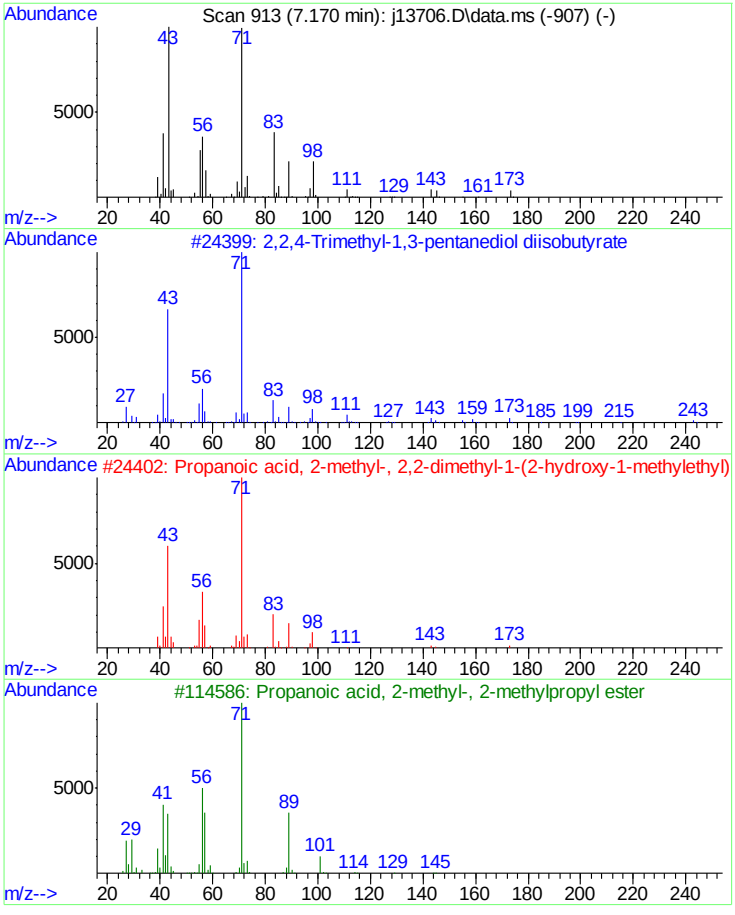
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

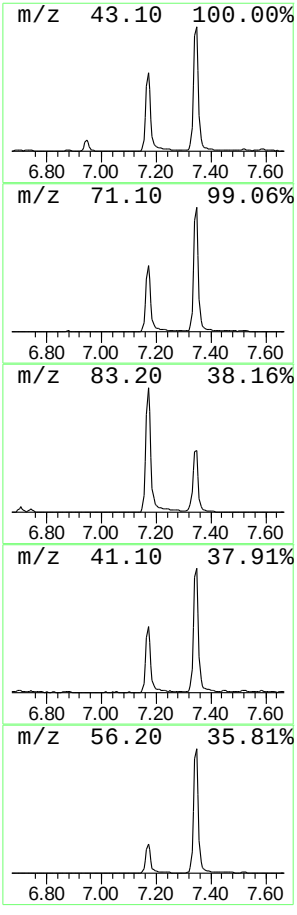
****

Peak Number 6 2,2,4-Trimethyl-1,3-pentane... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.170	9.99 ug/ml	1205160	Naphthalene-d8	5.940

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	53
2	Propanoic acid, 2-methyl-, 2,2-d...	216	C12H24O3	074367-33-2	50
3	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	47
4	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	47
5	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	37





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13706.D
Acq On : 8 Oct 2009 8:23 pm
Operator : sheilac
Sample : t39169-1
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 5 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
3-Hexene, 2,2,5...	4.025	10.7	ug/ml	1078990	1	4.731	4048210	40.0
1-Methyl-4-(1-m...	4.047	4.7	ug/ml	476799	1	4.731	4048210	40.0
2,3,3-Trimethyl...	4.132	5.0	ug/ml	510028	1	4.731	4048210	40.0
Decane, 3,3,4-t...	4.244	7.2	ug/ml	729607	1	4.731	4048210	40.0
Oxazole, 4,5-di...	4.260	8.5	ug/ml	859589	1	4.731	4048210	40.0
2,2,4-Trimethyl...	7.170	10.0	ug/ml	1205160	2	5.940	4825190	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13707.D
Acq On : 8 Oct 2009 8:54 pm
Operator : sheilac
Sample : t39169-2
Misc : op13205,Ej630,980,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 09 09:18:48 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	547976	40.00	ug/ml	0.00
20) Naphthalene-d8	5.940	136	1921917	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.406	164	1028497	40.00	ug/ml	-0.01
57) Phenanthrene-d10	11.192	188	1467061	40.00	ug/ml	-0.01
71) Chrysene-d12	16.712	240	948712	40.00	ug/ml	-0.02
80) Perylene-d12	19.515	264	667040	40.00	ug/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	623213	36.24	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 36.24%			
5) Phenol-d5 (SURR)	4.501	99	534507	24.87	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 24.87%			
21) Nitrobenzene-d5 (SURR)	5.218	82	521590	25.88	ug/ml	-0.08
Spiked Amount 50.000	Range 29 - 115		Recovery = 51.76%			
40) 2-Fluorobiphenyl (SURR)	7.341	172	932095	22.69	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 45.38%			
62) 2,4,6-Tribromophenol (...	9.850	330	254300	51.52	ug/ml	-0.11
Spiked Amount 100.000	Range 32 - 128		Recovery = 51.52%			
74) Terphenyl-d14	14.567	244	1120639	49.47	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 98.94%			

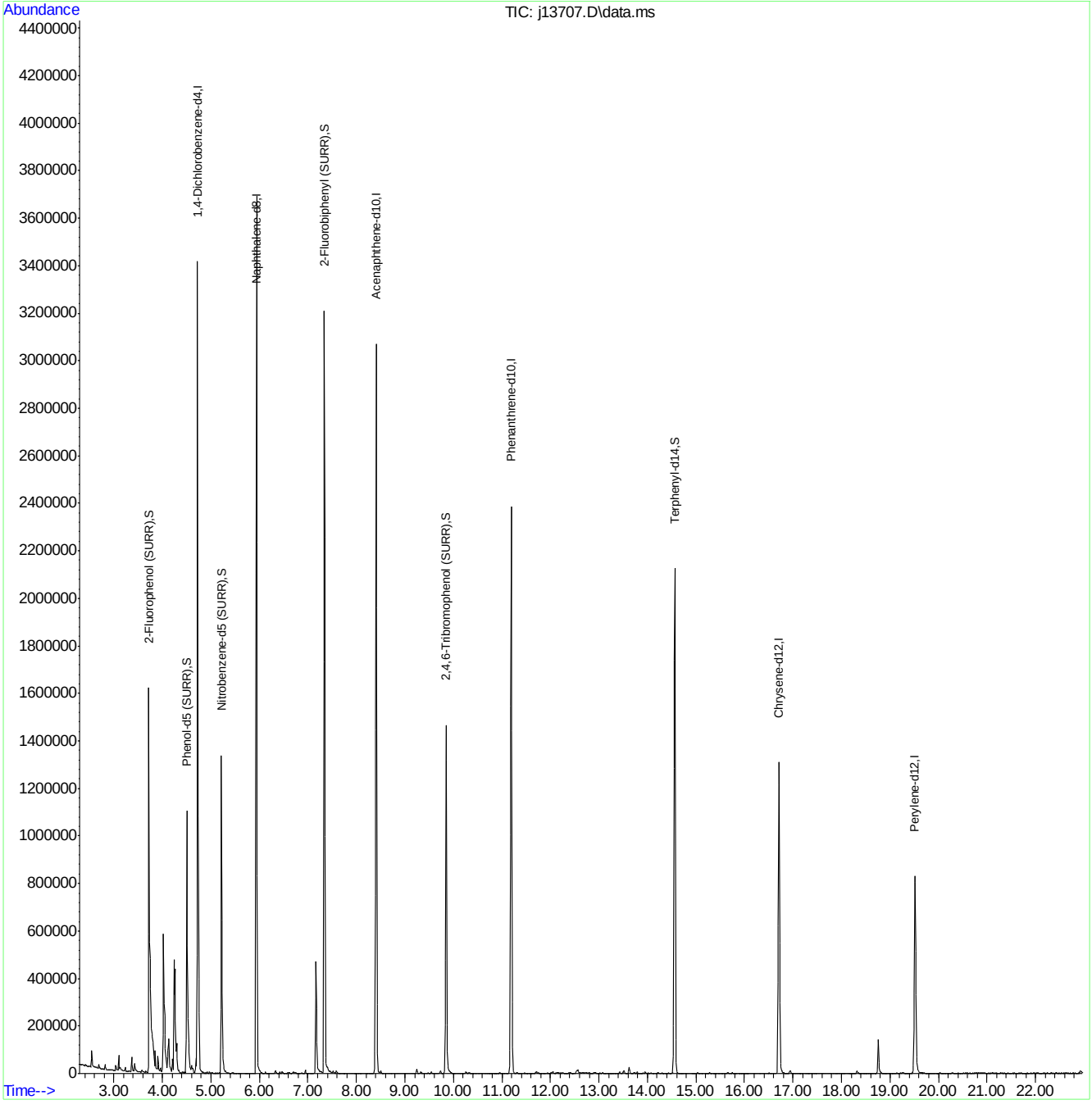
Target Compounds Qvalue

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

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13707.D
Acq On : 8 Oct 2009 8:54 pm
Operator : sheilac
Sample : t39169-2
Misc : op13205,Ej630,980,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 09 09:18:48 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13707.D
Acq On : 8 Oct 2009 8:54 pm
Operator : sheilac
Sample : t39169-2
Misc : op13205,Ej630,980,,,1,1,water
ALS Vial : 6 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: j13707.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.544	45	48	53	rVB	66314	57252	1.25%	0.144%
2	3.100	148	152	155	rBV	62891	58412	1.27%	0.147%
3	3.367	198	202	210	rBV	59660	60561	1.32%	0.152%
4	3.720	265	268	271	rBV	1619303	1531464	33.32%	3.846%
5	3.849	290	292	298	rVB2	75617	67281	1.46%	0.169%
6	3.908	301	303	309	rVB	61600	58827	1.28%	0.148%
7	4.025	321	325	327	rBV	566752	541896	11.79%	1.361%
8	4.047	327	329	338	rVV	223750	298657	6.50%	0.750%
9	4.132	338	345	356	rVB2	140917	273919	5.96%	0.688%
10	4.207	356	359	362	rBV	51888	49537	1.08%	0.124%
11	4.239	362	365	367	rVV	465316	445179	9.69%	1.118%
12	4.255	367	368	373	rVV2	427610	405837	8.83%	1.019%
13	4.293	373	375	382	rVB	116095	123148	2.68%	0.309%
14	4.501	410	414	430	rBV	1103158	1673089	36.40%	4.202%
15	4.694	446	450	452	rBV	61491	63115	1.37%	0.159%
16	4.726	452	456	472	rVB	3412737	3689698	80.28%	9.267%
17	5.218	544	548	561	rBV	1337630	1641665	35.72%	4.123%
18	5.940	677	683	708	rBV	3691960	4481252	97.50%	11.255%
19	7.165	907	912	927	rBV	470104	668125	14.54%	1.678%
20	7.341	938	945	954	rBV	3204728	4058737	88.31%	10.194%
21	8.406	1136	1144	1158	rBV	3071816	4596136	100.00%	11.544%
22	9.850	1407	1414	1439	rBV	1467143	2402309	52.27%	6.034%
23	11.192	1656	1665	1680	rBV2	2387951	4116932	89.57%	10.340%
24	14.567	2280	2296	2308	rBV	2126140	3836511	83.47%	9.636%
25	16.712	2687	2697	2718	rBV	1311650	2595848	56.48%	6.520%
26	18.761	3072	3080	3087	rBV	141805	231103	5.03%	0.580%
27	19.515	3212	3221	3239	rBV	826847	1789044	38.92%	4.493%

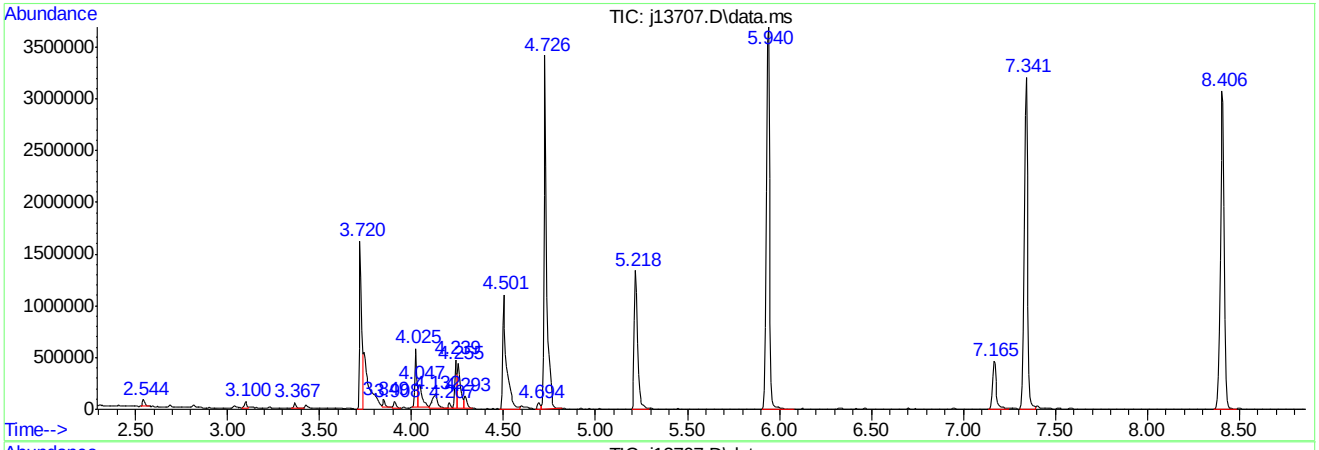
Sum of corrected areas: 39815534

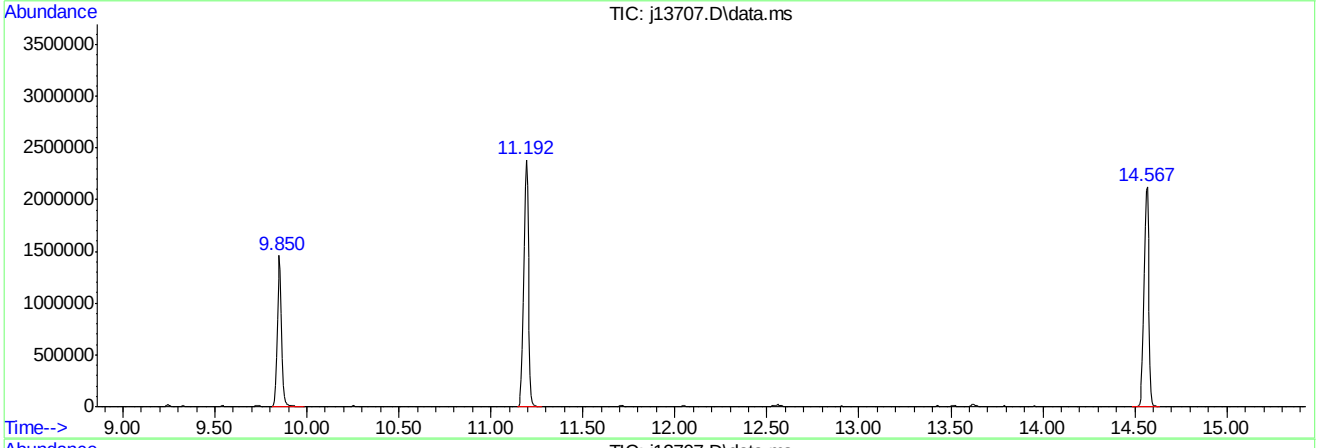
LSC Report - Integrated Chromatogram

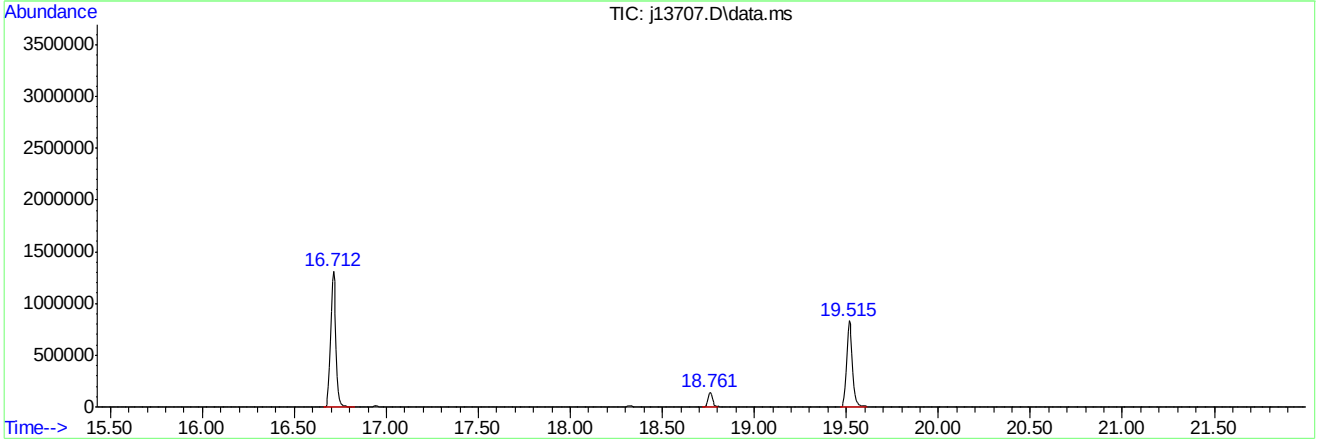
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13707.D
Acq On : 8 Oct 2009 8:54 pm
Operator : sheilac
Sample : t39169-2
Misc : op13205,Ej630,980,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

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\ej630\
Data File : j13707.D
Acq On : 8 Oct 2009 8:54 pm
Operator : sheilac
Sample : t39169-2
Misc : op13205,Ej630,980,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

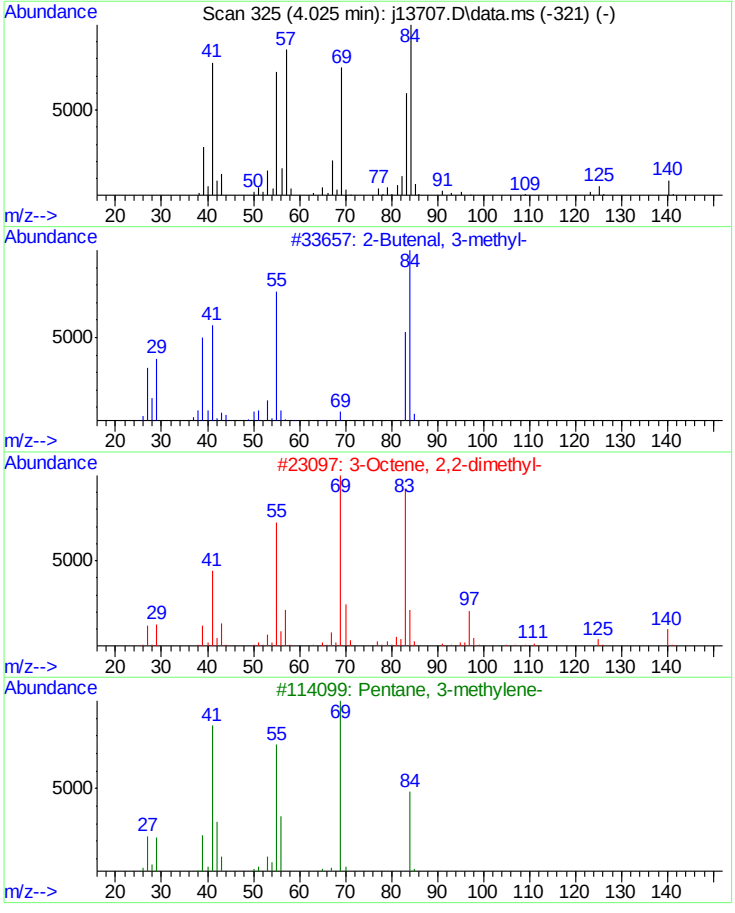
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

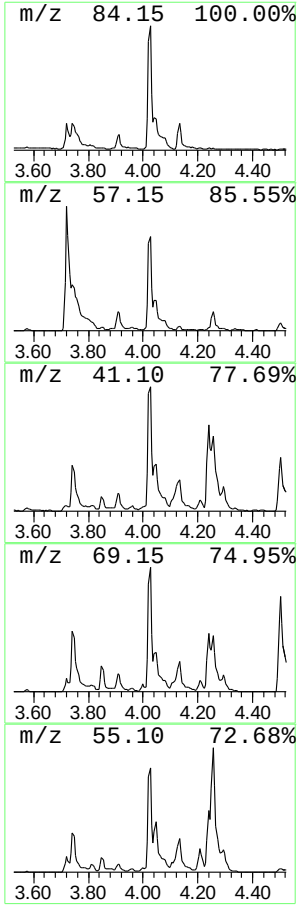
****

Peak Number 1 2-Butenal, 3-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.025	5.87 ug/ml	541896	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	43
2	3-Octene, 2,2-dimethyl-	140	C10H20	086869-76-3	38
3	Pentane, 3-methylene-	84	C6H12	000760-21-4	38
4	Cyclopentane, 1,1,3,4-tetramethy...	126	C9H18	053907-60-1	38
5	3-Hexene, 2,2,5,5-tetramethyl-, ...	140	C10H20	000692-47-7	37





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13707.D
Acq On : 8 Oct 2009 8:54 pm
Operator : sheilac
Sample : t39169-2
Misc : op13205,Ej630,980,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

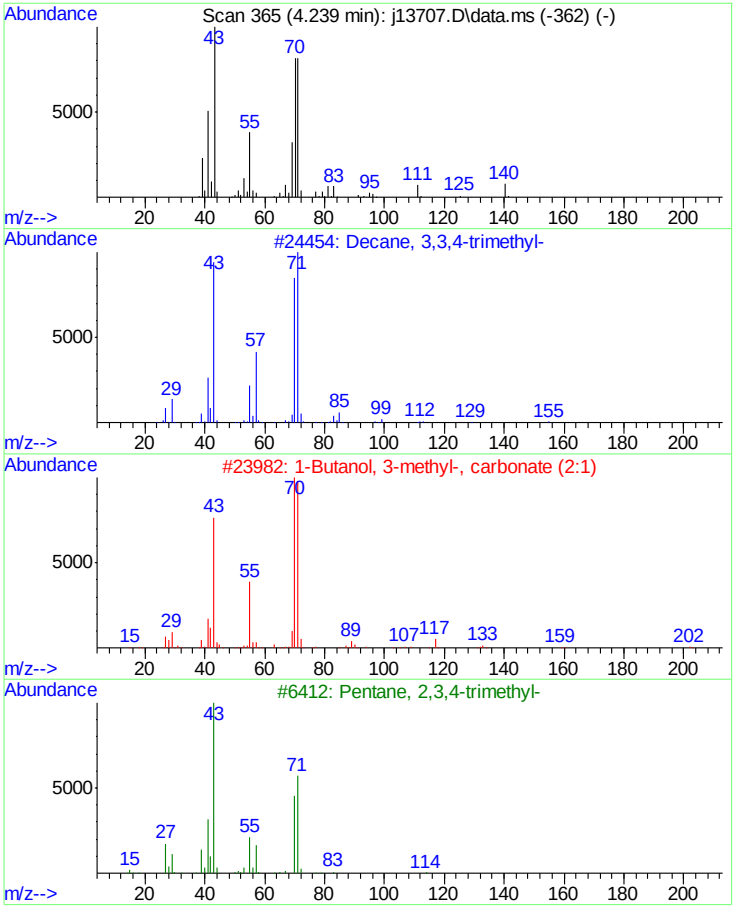
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

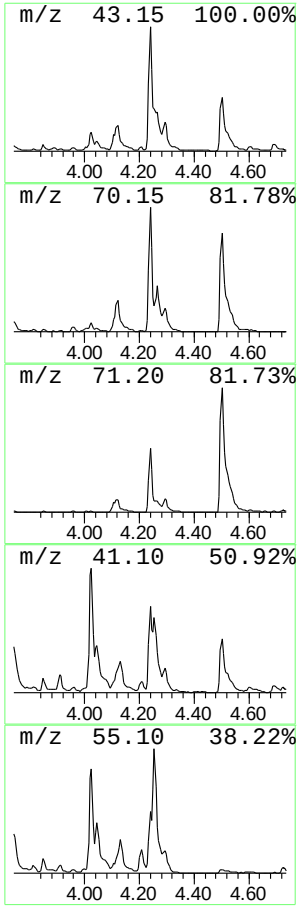
****

Peak Number 2 Decane, 3,3,4-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.239	4.83 ug/ml	445179	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	72
2	1-Butanol, 3-methyl-, carbonate ...	202	C11H22O3	002050-95-5	72
3	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64
4	3,3-Dimethyl-2-pentanol	116	C7H16O	1000114-53-7	64
5	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	56





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13707.D
Acq On : 8 Oct 2009 8:54 pm
Operator : sheilac
Sample : t39169-2
Misc : op13205,Ej630,980,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

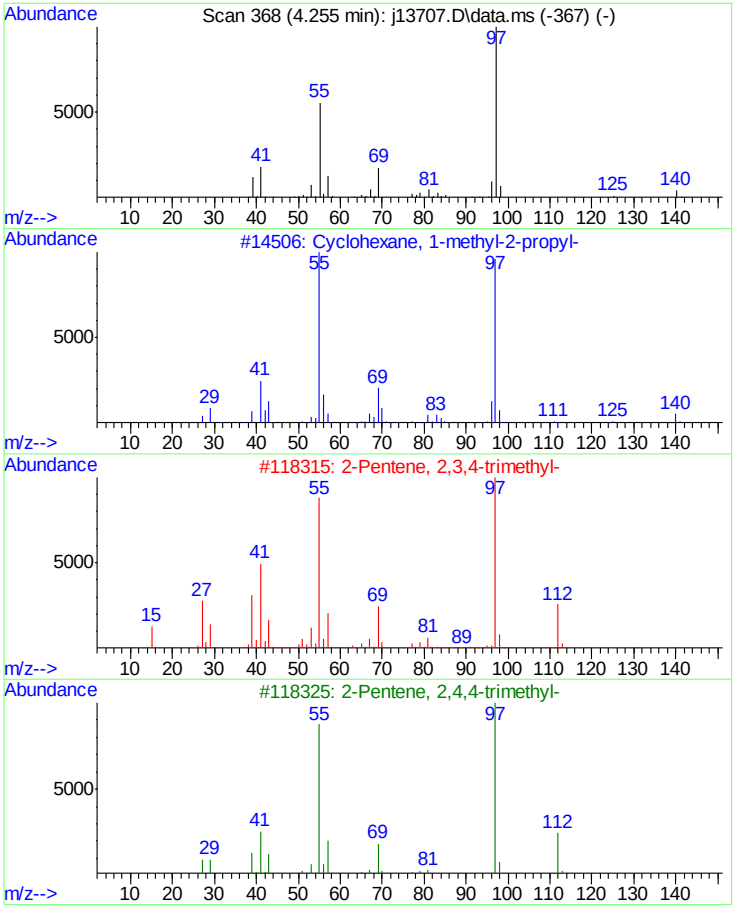
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

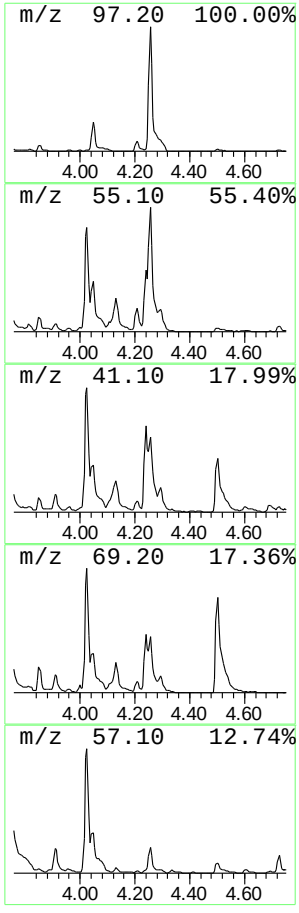
****

Peak Number 3 Cyclohexane, 1-methyl-2-pro... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.255	4.40 ug/ml	405837	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-methyl-2-propyl-	140	C10H20	004291-79-6	78
2	2-Pentene, 2,3,4-trimethyl-	112	C8H16	000565-77-5	72
3	2-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-40-4	72
4	Pyridine, 2-fluoro-	97	C5H4FN	000372-48-5	64
5	Cycloheptane, bromo-	176	C7H13Br	002404-35-5	59





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13707.D
Acq On : 8 Oct 2009 8:54 pm
Operator : sheilac
Sample : t39169-2
Misc : op13205,Ej630,980,,,1,1,water
ALS Vial : 6 Sample Multiplier: 1

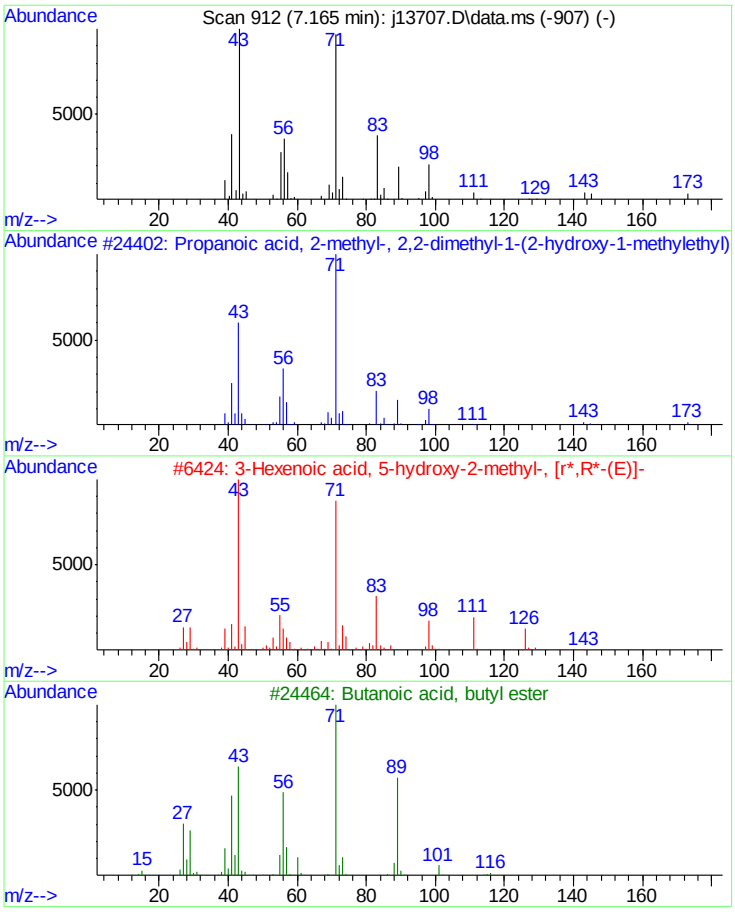
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

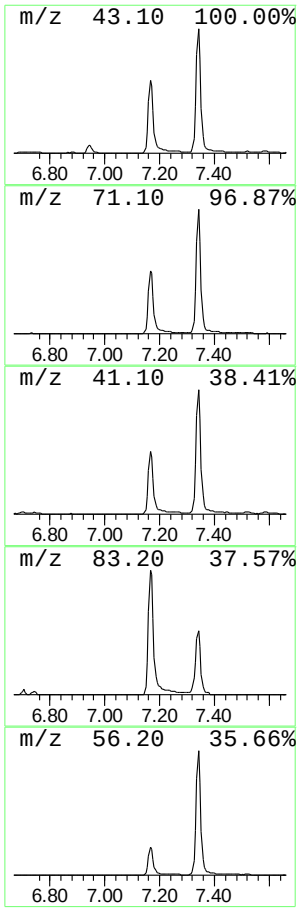
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Propanoic acid, 2-methyl-, ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.165	5.96 ug/ml	668125	Naphthalene-d8	5.940

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, 2-methyl-, 2,2-d...	216	C12H24O3	074367-33-2	56
2	3-Hexenoic acid, 5-hydroxy-2-met...	144	C7H12O3	110678-36-9	53
3	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	50
4	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	45
5	2,5-Dimethyl-1,5-hexadien-3-ol	126	C8H14O	017123-63-6	43





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13707.D
Acq On    :  8 Oct 2009   8:54 pm
Operator  : sheilac
Sample    : t39169-2
Misc      : op13205,Ej630,980,,,1,1,water
ALS Vial  : 6   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

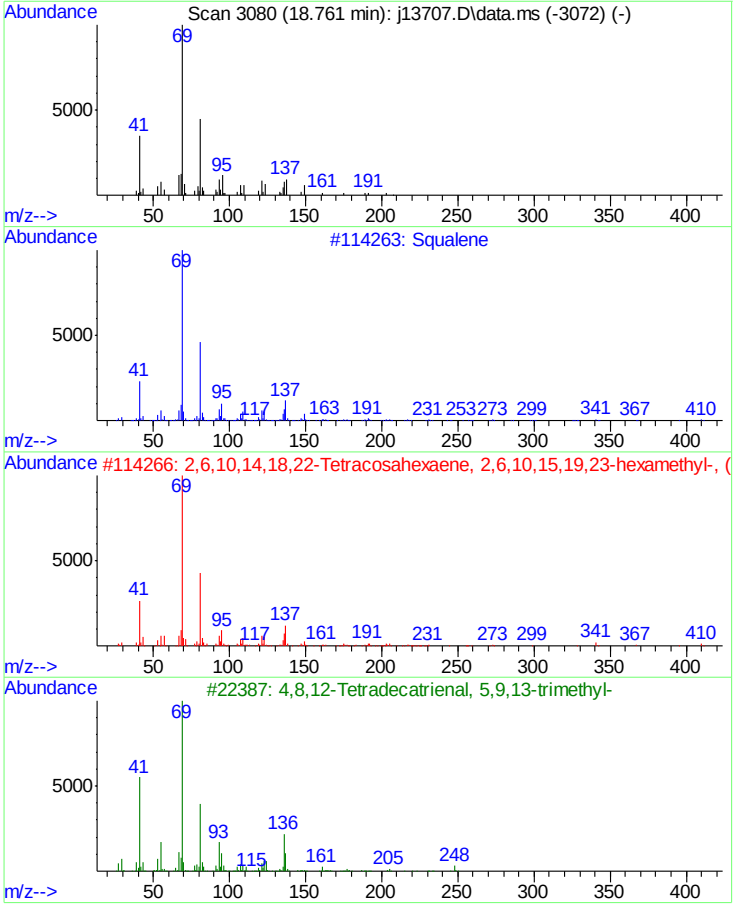
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

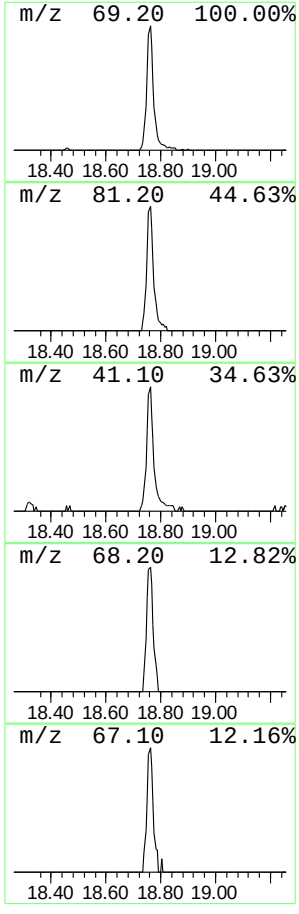
****

Peak Number 5 Squalene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.761	5.17 ug/ml	231103	Perylene-d12	19.515

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Squalene	410	C30H50	007683-64-9	91
2	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	91
3	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	72
4	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	000106-28-5	64
5	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	004602-84-0	64





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13707.D
Acq On : 8 Oct 2009 8:54 pm
Operator : sheilac
Sample : t39169-2
Misc : op13205,Ej630,980,,,1,1,water
ALS Vial : 6 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
2-Butenal, 3-me...	4.025	5.9	ug/ml	541896	1	4.726	3689700	40.0
Decane, 3,3,4-t...	4.239	4.8	ug/ml	445179	1	4.726	3689700	40.0
Cyclohexane, 1-...	4.255	4.4	ug/ml	405837	1	4.726	3689700	40.0
Propanoic acid,...	7.165	6.0	ug/ml	668125	2	5.940	4481250	40.0
Squalene	18.761	5.2	ug/ml	231103	6	19.515	1789040	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13708.D
Acq On : 8 Oct 2009 9:24 pm
Operator : sheilac
Sample : t39169-3
Misc : op13205,Ej630,970,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 09 09:23:26 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	572371	40.00	ug/ml	0.00
20) Naphthalene-d8	5.935	136	2001861	40.00	ug/ml	-0.01
36) Acenaphthene-d10	8.406	164	1061438	40.00	ug/ml	-0.01
57) Phenanthrene-d10	11.192	188	1485411	40.00	ug/ml	-0.01
71) Chrysene-d12	16.712	240	922290	40.00	ug/ml	-0.02
80) Perylene-d12	19.520	264	626911	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	601887	33.51	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 33.51%			
5) Phenol-d5 (SURR)	4.501	99	517363	23.05	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 23.05%			
21) Nitrobenzene-d5 (SURR)	5.218	82	520368	24.79	ug/ml	-0.08
Spiked Amount 50.000	Range 29 - 115		Recovery = 49.58%			
40) 2-Fluorobiphenyl (SURR)	7.341	172	920911	21.75	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 43.50%			
62) 2,4,6-Tribromophenol (...	9.850	330	243159	48.65	ug/ml	-0.11
Spiked Amount 100.000	Range 32 - 128		Recovery = 48.65%			
74) Terphenyl-d14	14.567	244	1179544	53.56	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 107.12%			

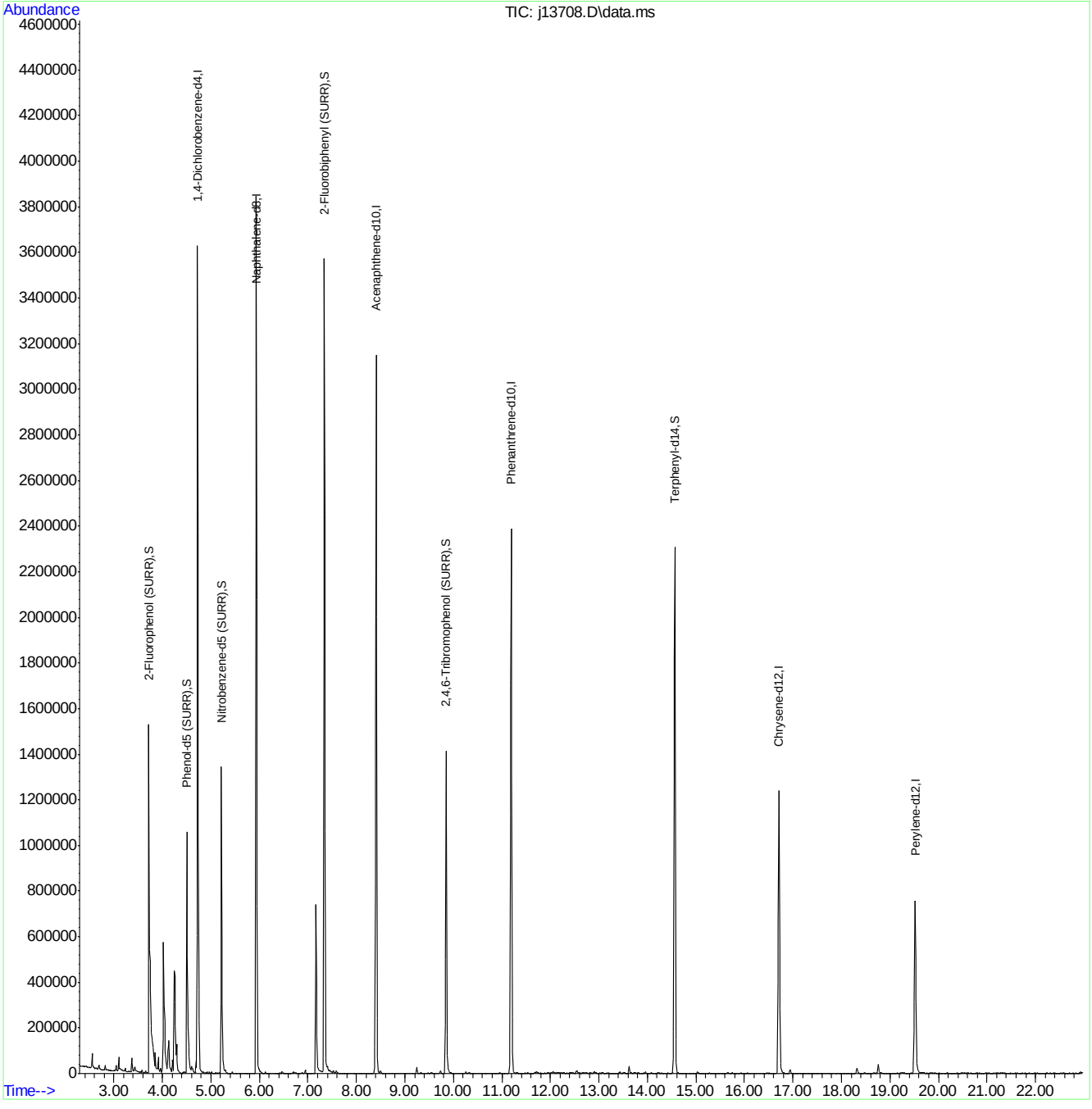
Target Compounds Qvalue

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

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13708.D
Acq On : 8 Oct 2009 9:24 pm
Operator : sheilac
Sample : t39169-3
Misc : op13205,Ej630,970,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 09 09:23:26 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13708.D
Acq On : 8 Oct 2009 9:24 pm
Operator : sheilac
Sample : t39169-3
Misc : op13205,Ej630,970,,,1,1,water
ALS Vial : 7 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: j13708.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.549	46	49	54	rVB	62525	55723	1.17%	0.137%
2	3.100	148	152	155	rBV	56552	53584	1.13%	0.131%
3	3.367	198	202	211	rBV	59544	60061	1.27%	0.147%
4	3.720	265	268	271	rBV	1526999	1490423	31.40%	3.654%
5	3.849	290	292	298	rVB2	71490	67388	1.42%	0.165%
6	3.913	301	304	310	rVB	62641	61989	1.31%	0.152%
7	4.025	321	325	327	rBV	556532	523501	11.03%	1.283%
8	4.047	327	329	338	rVV2	208987	272078	5.73%	0.667%
9	4.132	338	345	356	rVB3	139548	272413	5.74%	0.668%
10	4.207	356	359	362	rBV	53630	51463	1.08%	0.126%
11	4.239	362	365	367	rBV	438638	440411	9.28%	1.080%
12	4.255	367	368	373	rVV2	412913	381609	8.04%	0.936%
13	4.293	373	375	381	rVB	116251	116900	2.46%	0.287%
14	4.501	410	414	430	rBV	1055251	1618387	34.09%	3.968%
15	4.694	446	450	452	rBV	52489	56394	1.19%	0.138%
16	4.726	452	456	470	rVB	3623481	3848467	81.07%	9.435%
17	5.218	543	548	561	rBV	1344430	1640103	34.55%	4.021%
18	5.935	677	682	714	rBV	3846049	4692506	98.85%	11.504%
19	7.165	906	912	929	rBV	739525	995738	20.98%	2.441%
20	7.341	938	945	954	rBV	3566038	4501932	94.84%	11.037%
21	8.406	1136	1144	1158	rBV	3148156	4746981	100.00%	11.638%
22	9.850	1406	1414	1436	rBV	1414610	2292359	48.29%	5.620%
23	11.192	1655	1665	1680	rBV2	2389648	4175093	87.95%	10.236%
24	13.621	2112	2119	2124	rBV2	31524	48292	1.02%	0.118%
25	14.567	2280	2296	2307	rBV	2306575	4034968	85.00%	9.892%
26	16.712	2686	2697	2713	rBV	1240085	2524237	53.18%	6.188%
27	18.761	3071	3080	3087	rBV	37811	62152	1.31%	0.152%
28	19.520	3211	3222	3241	rBV	757711	1704806	35.91%	4.179%

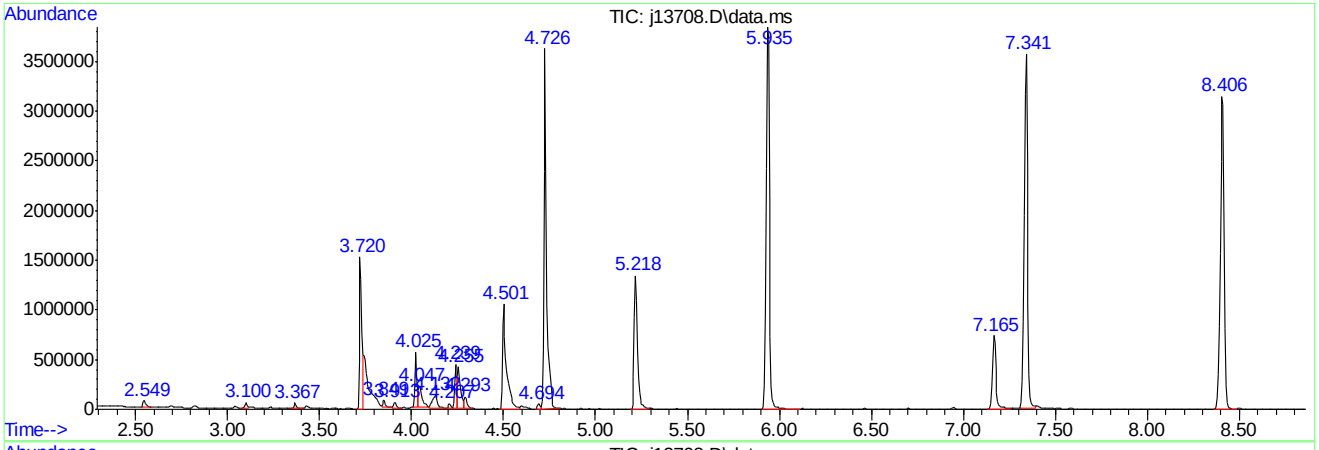
Sum of corrected areas: 40789958

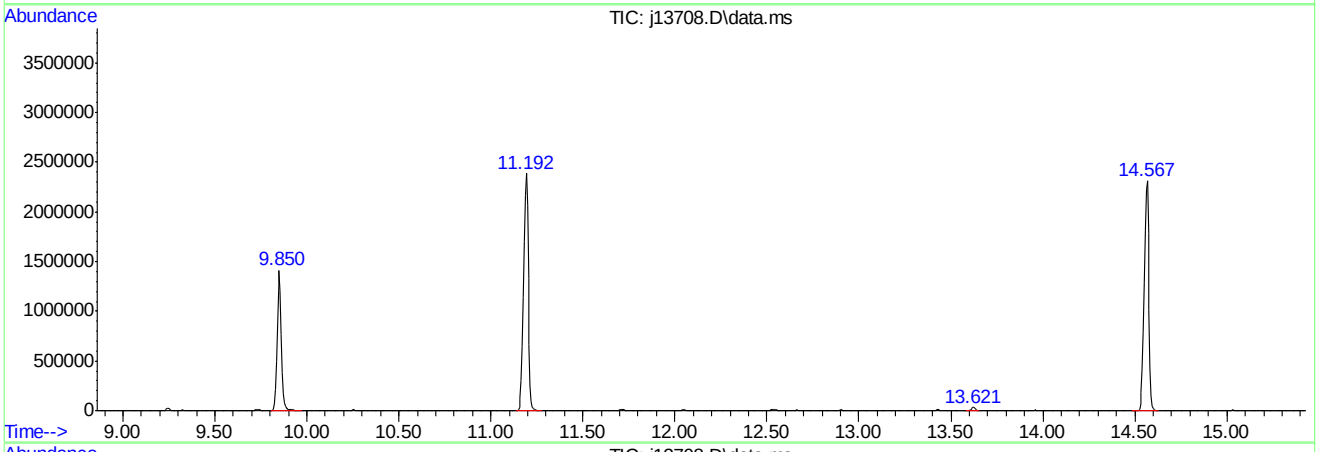
LSC Report - Integrated Chromatogram

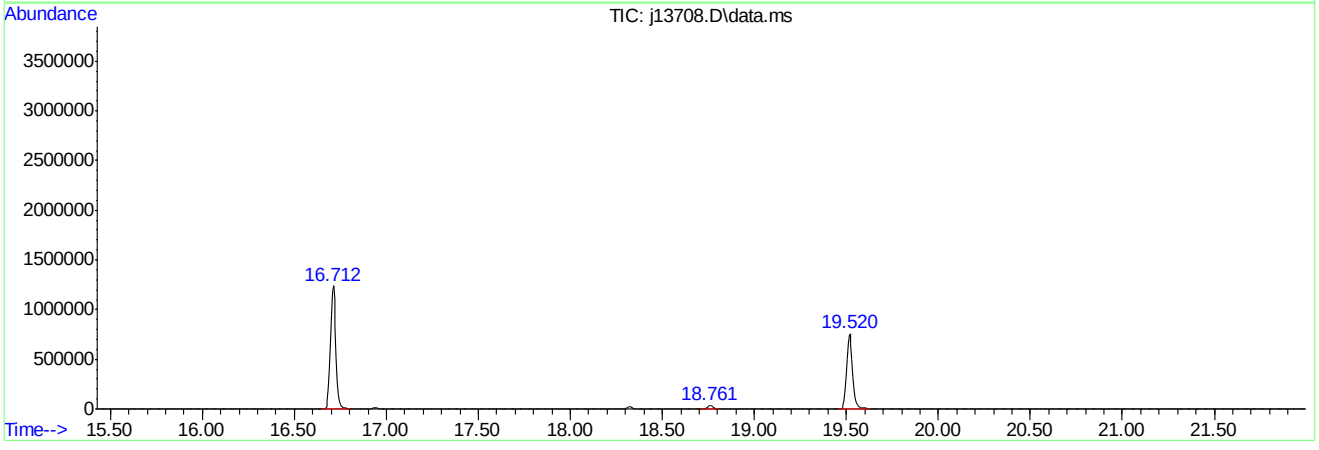
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13708.D
Acq On : 8 Oct 2009 9:24 pm
Operator : sheilac
Sample : t39169-3
Misc : op13205,Ej630,970,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

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\ej630\
Data File : j13708.D
Acq On : 8 Oct 2009 9:24 pm
Operator : sheilac
Sample : t39169-3
Misc : op13205,Ej630,970,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

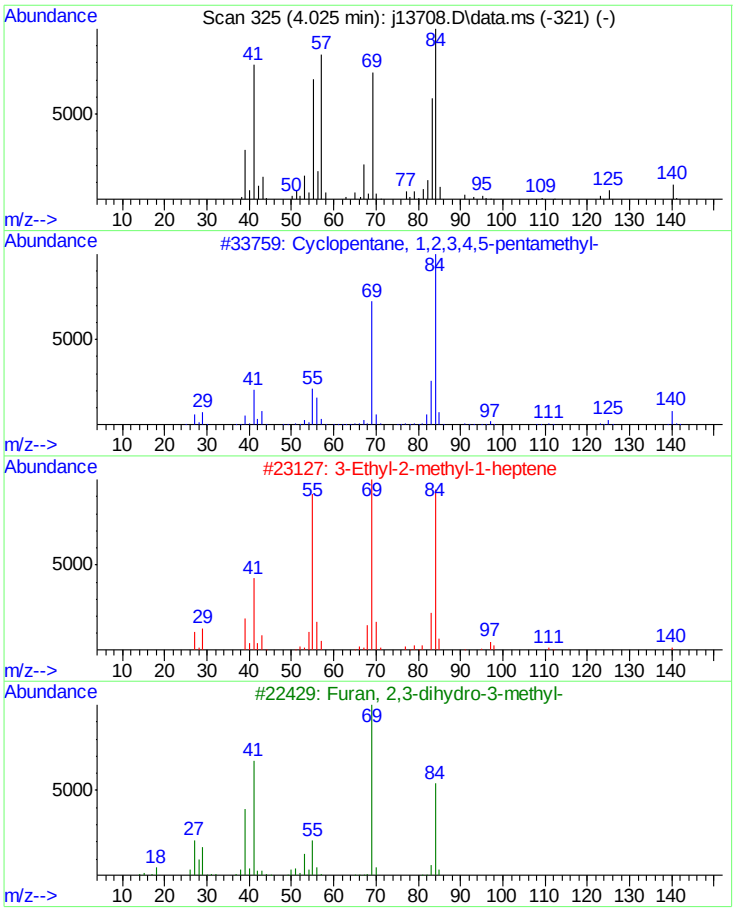
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

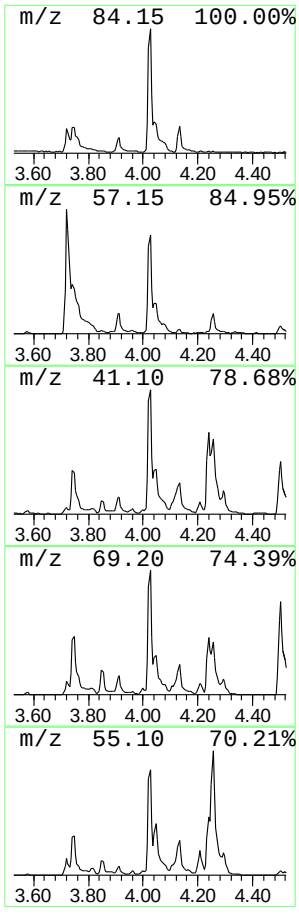
****

Peak Number 1 Cyclopentane, 1,2,3,4,5-pen... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.025	5.44 ug/ml	523501	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3,4,5-pentamet...	140	C10H20	1000152-79-7	72
2	3-Ethyl-2-methyl-1-heptene	140	C10H20	019780-60-0	53
3	Furan, 2,3-dihydro-3-methyl-	84	C5H8O	001708-27-6	49
4	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	43
5	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	43





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13708.D
Acq On : 8 Oct 2009 9:24 pm
Operator : sheilac
Sample : t39169-3
Misc : op13205,Ej630,970,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

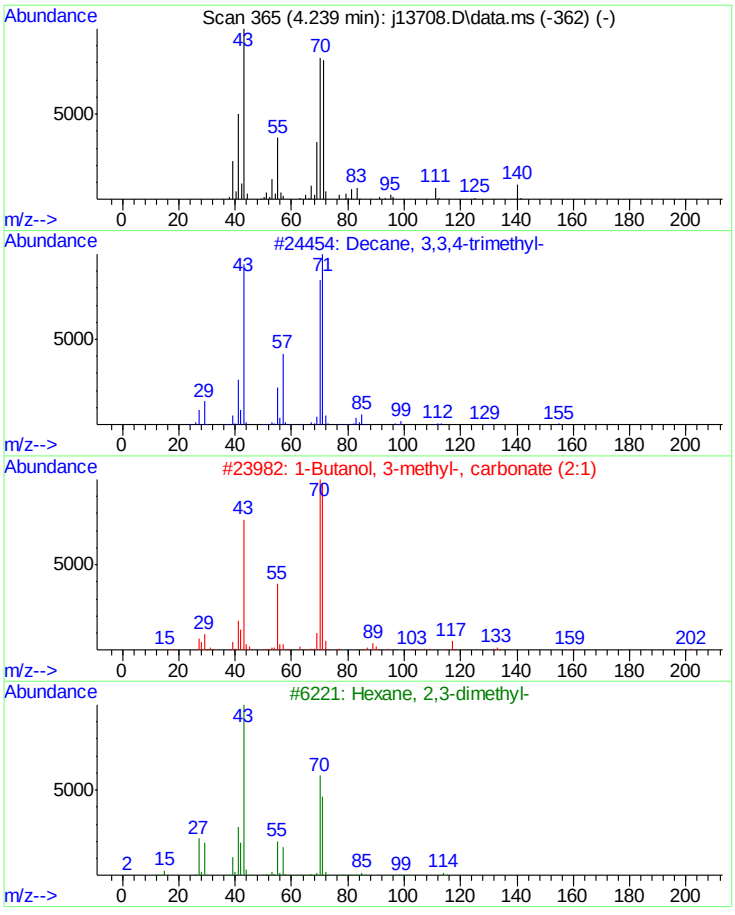
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

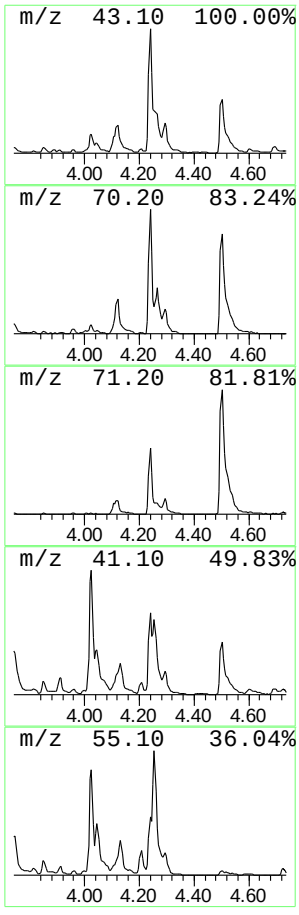
****

Peak Number 2 Decane, 3,3,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.239	4.58 ug/ml	440411	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	78
2	1-Butanol, 3-methyl-, carbonate ...	202	C11H22O3	002050-95-5	72
3	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	72
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	72
5	Hexane, 3,3,4-trimethyl-	128	C9H20	016747-31-2	64





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13708.D
Acq On : 8 Oct 2009 9:24 pm
Operator : sheilac
Sample : t39169-3
Misc : op13205,Ej630,970,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

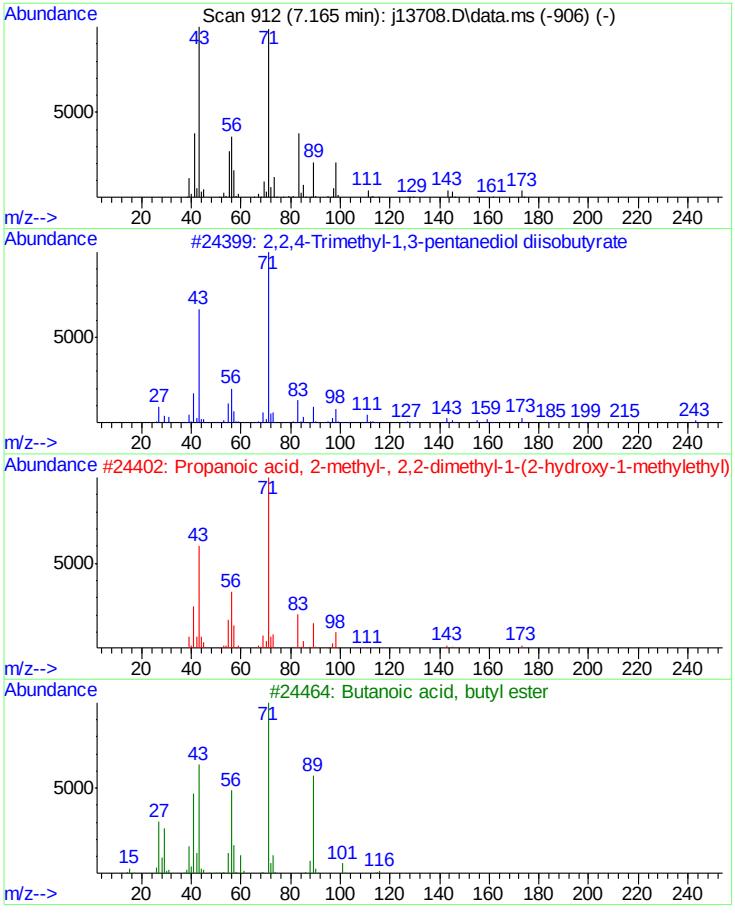
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

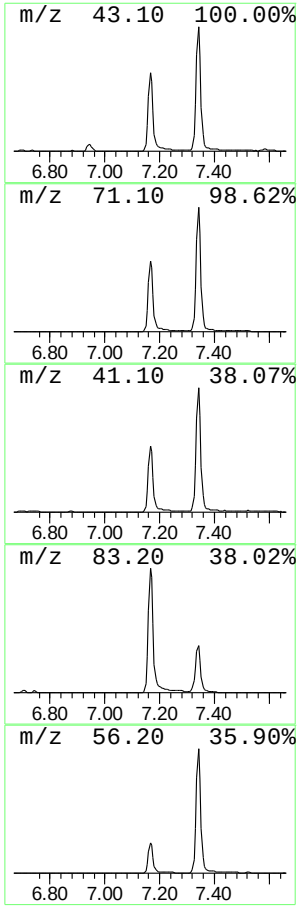
****

Peak Number 3 2,2,4-Trimethyl-1,3-pentane... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.165	8.49 ug/ml	995738	Naphthalene-d8	5.935

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	59
2	Propanoic acid, 2-methyl-, 2,2-d...	216	C12H24O3	074367-33-2	56
3	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	50
4	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	50
5	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	50





ACCUTEST Laboratories T39169

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13708.D
Acq On : 8 Oct 2009 9:24 pm
Operator : sheilac
Sample : t39169-3
Misc : op13205,Ej630,970,,,1,1,water
ALS Vial : 7 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
Cyclopentane, 1...	4.025	5.4	ug/ml	523501	1	4.726	3848470	40.0
Decane, 3,3,4-t...	4.239	4.6	ug/ml	440411	1	4.726	3848470	40.0
2,2,4-Trimethyl...	7.165	8.5	ug/ml	995738	2	5.935	4692510	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13709.D
Acq On : 8 Oct 2009 9:55 pm
Operator : sheilac
Sample : t39169-4
Misc : op13205,Ej630,985,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 09 09:23:57 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	589474	40.00	ug/ml	0.00
20) Naphthalene-d8	5.940	136	2049985	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.406	164	1076009	40.00	ug/ml	-0.01
57) Phenanthrene-d10	11.192	188	1498592	40.00	ug/ml	-0.01
71) Chrysene-d12	16.712	240	807713	40.00	ug/ml	-0.02
80) Perylene-d12	19.515	264	553236	40.00	ug/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	1078538	58.30	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 58.30%			
5) Phenol-d5 (SURR)	4.501	99	945457	40.89	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 40.89%			
21) Nitrobenzene-d5 (SURR)	5.223	82	917750	42.69	ug/ml	-0.08
Spiked Amount 50.000	Range 29 - 115		Recovery = 85.38%			
40) 2-Fluorobiphenyl (SURR)	7.341	172	1688765	38.71	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 77.42%			
62) 2,4,6-Tribromophenol (...	9.855	330	380232	75.41	ug/ml	-0.11
Spiked Amount 100.000	Range 32 - 128		Recovery = 75.41%			
74) Terphenyl-d14	14.562	244	1095694	56.81	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 113.62%			

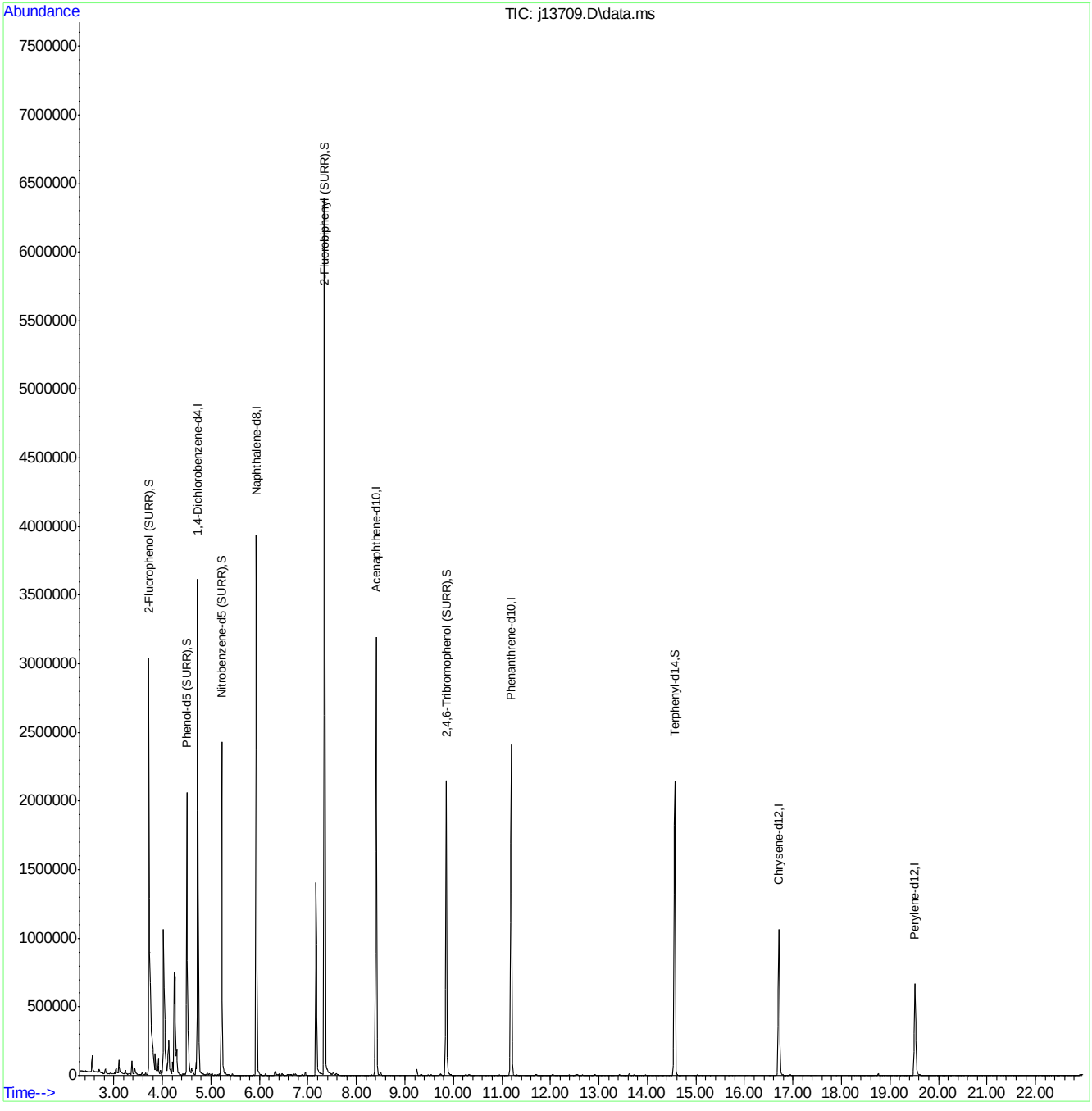
Target Compounds Qvalue

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

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13709.D
Acq On : 8 Oct 2009 9:55 pm
Operator : sheilac
Sample : t39169-4
Misc : op13205,Ej630,985,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 09 09:23:57 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39169

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13709.D
Acq On : 8 Oct 2009 9:55 pm
Operator : sheilac
Sample : t39169-4
Misc : op13205,Ej630,985,,,1,1,water
ALS Vial : 8 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: j13709.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.549	46	49	62	rVB	120334	119816	1.43%	0.231%
2	3.105	149	153	156	rBV	95512	95910	1.15%	0.185%
3	3.367	198	202	211	rBV	101281	106908	1.28%	0.206%
4	3.720	265	268	271	rBV	3036364	2793744	33.43%	5.390%
5	3.854	290	293	298	rVV	129478	123069	1.47%	0.237%
6	3.913	301	304	310	rVB	111710	105544	1.26%	0.204%
7	4.025	321	325	327	rBV	1029017	901431	10.79%	1.739%
8	4.047	327	329	338	rVV2	377665	499614	5.98%	0.964%
9	4.132	338	345	356	rVB2	241968	470487	5.63%	0.908%
10	4.207	356	359	362	rBV	89894	90663	1.08%	0.175%
11	4.239	362	365	367	rVV	727111	703744	8.42%	1.358%
12	4.255	367	368	373	rVV2	704616	697299	8.34%	1.345%
13	4.293	373	375	381	rVB	178829	200413	2.40%	0.387%
14	4.501	410	414	430	rBV	2060126	2950154	35.30%	5.692%
15	4.694	446	450	452	rBV	94487	98652	1.18%	0.190%
16	4.726	452	456	466	rVB	3598140	3907654	46.76%	7.539%
17	5.223	543	549	561	rBV	2427661	2890852	34.59%	5.577%
18	5.935	677	682	703	rVB	3933509	4783533	57.24%	9.229%
19	7.170	906	913	938	rBV	1409200	1922540	23.01%	3.709%
20	7.341	938	945	955	rBV2	6385706	8356492	100.00%	16.122%
21	8.406	1136	1144	1156	rBV	3196797	4819535	57.67%	9.298%
22	9.850	1406	1414	1433	rBV	2149379	3591531	42.98%	6.929%
23	11.192	1655	1665	1678	rBV2	2411164	4194933	50.20%	8.093%
24	14.562	2282	2295	2308	rBV2	2145438	3742991	44.79%	7.221%
25	16.712	2687	2697	2714	rBV	1066822	2191085	26.22%	4.227%
26	19.515	3211	3221	3243	rBV	668786	1472827	17.62%	2.842%

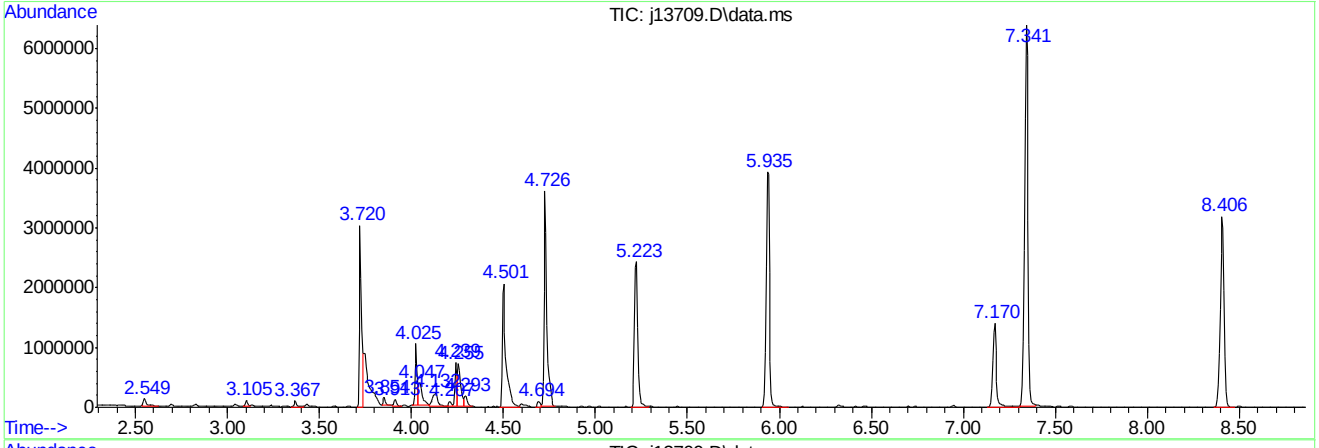
Sum of corrected areas: 51831421

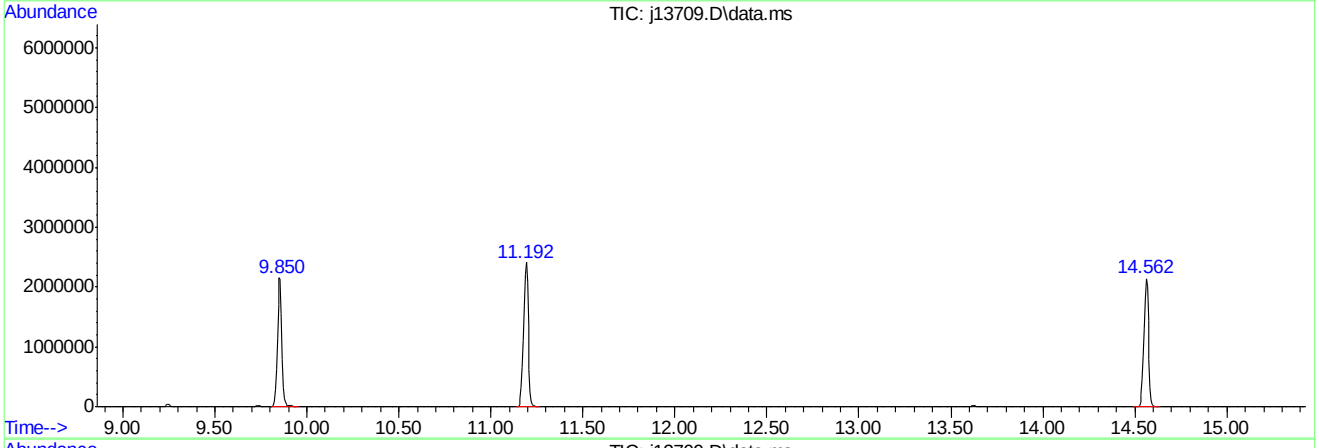
LSC Report - Integrated Chromatogram

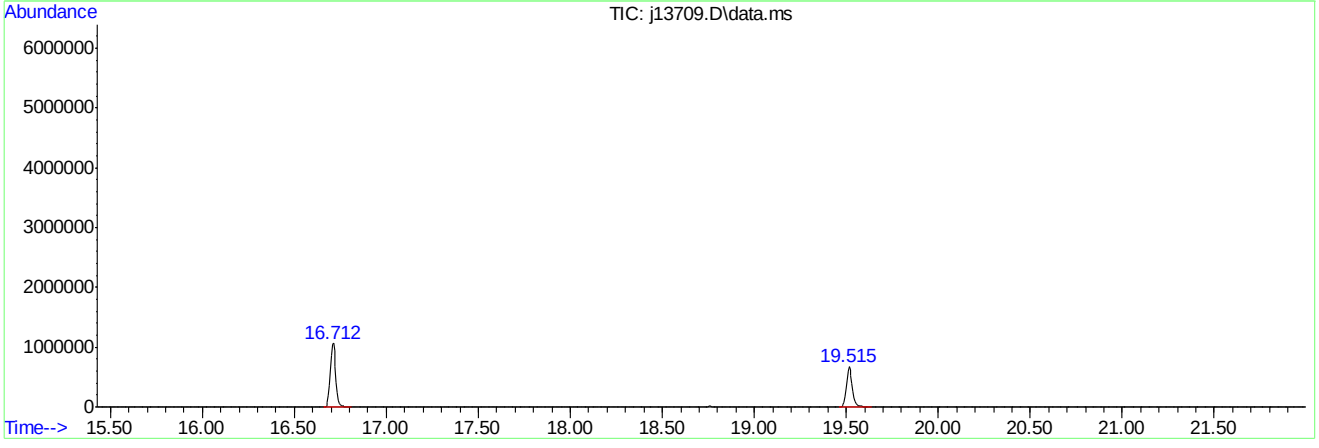
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13709.D
Acq On : 8 Oct 2009 9:55 pm
Operator : sheilac
Sample : t39169-4
Misc : op13205,Ej630,985,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

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\ej630\
Data File : j13709.D
Acq On : 8 Oct 2009 9:55 pm
Operator : sheilac
Sample : t39169-4
Misc : op13205,Ej630,985,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

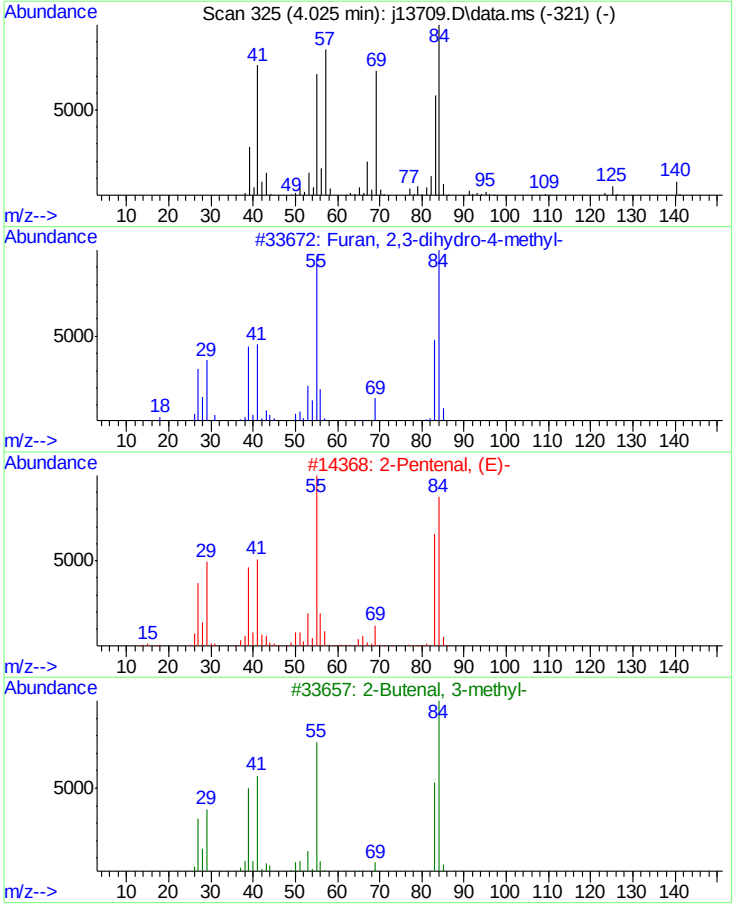
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

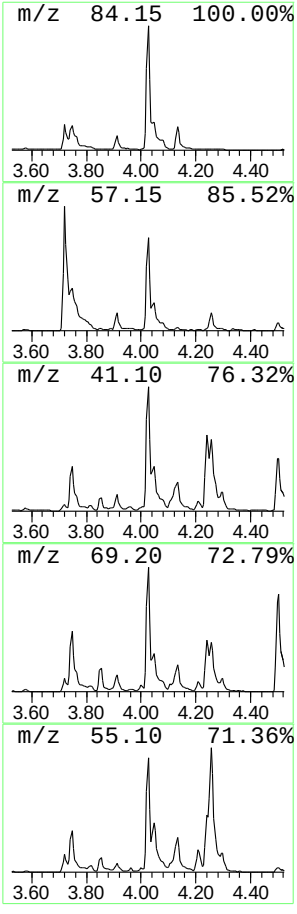
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Furan, 2,3-dihydro-4-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.025	9.23 ug/ml	901431	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,3-dihydro-4-methyl-	84	C5H8O	034314-83-5	53
2	2-Pentenal, (E)-	84	C5H8O	001576-87-0	53
3	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	52
4	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	50
5	Furan, 2,3-dihydro-3-methyl-	84	C5H8O	001708-27-6	43





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13709.D
Acq On    :  8 Oct 2009   9:55 pm
Operator  : sheilac
Sample    : t39169-4
Misc      : op13205,Ej630,985,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

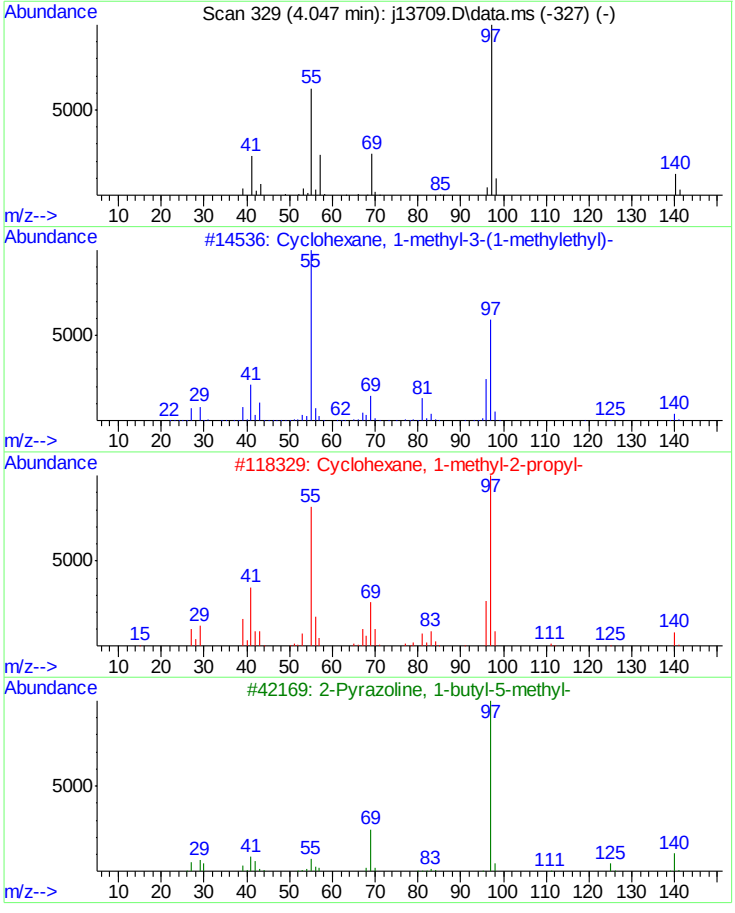
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

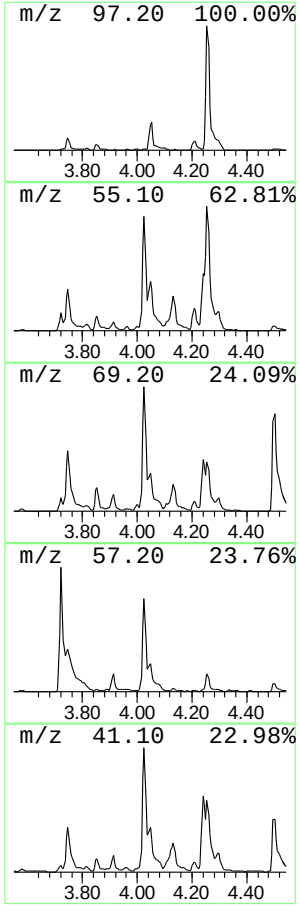
****

Peak Number 2 Cyclohexane, 1-methyl-3-(1-... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.047	5.11 ug/ml	499614	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1-methyl-3-(1-methy...	140	C10H20	016580-24-8	72
2	Cyclohexane, 1-methyl-2-propyl-	140	C10H20	004291-79-6	72
3	2-Pyrazoline, 1-butyl-5-methyl-	140	C8H16N2	022581-50-6	64
4	Cyclohexane, 1-bromo-2-methyl-	176	C7H13Br	006294-39-9	56
5	Cyclohexane, 1-methyl-2-propyl-	140	C10H20	004291-79-6	56





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13709.D
Acq On : 8 Oct 2009 9:55 pm
Operator : sheilac
Sample : t39169-4
Misc : op13205,Ej630,985,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

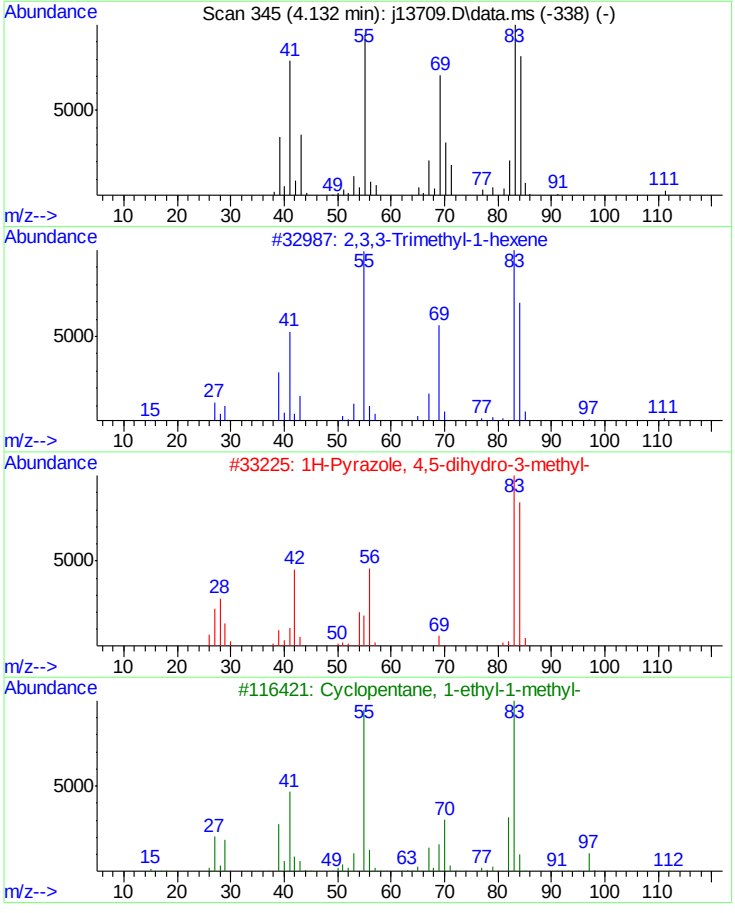
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

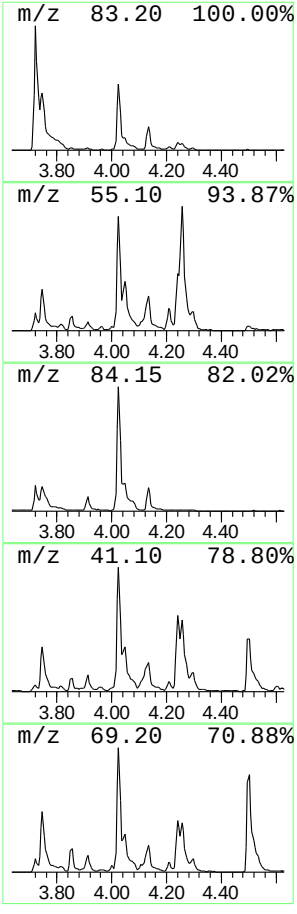
****

Peak Number 3 2,3,3-Trimethyl-1-hexene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.132	4.82 ug/ml	470487	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3,3-Trimethyl-1-hexene	126	C9H18	1000113-52-1	72
2	1H-Pyrazole, 4,5-dihydro-3-methyl-	84	C4H8N2	001911-30-4	49
3	Cyclopentane, 1-ethyl-1-methyl-	112	C8H16	016747-50-5	47
4	1H-Pyrazole, 4,5-dihydro-3-methyl-	84	C4H8N2	001911-30-4	47
5	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	43





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13709.D
Acq On    :  8 Oct 2009   9:55 pm
Operator  : sheilac
Sample    : t39169-4
Misc      : op13205,Ej630,985,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

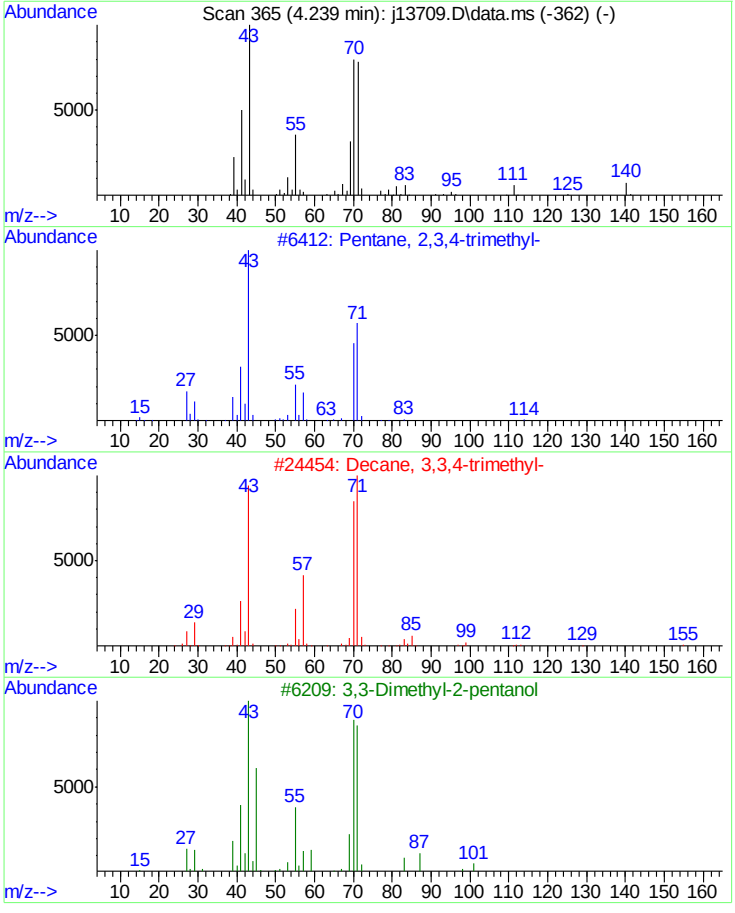
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

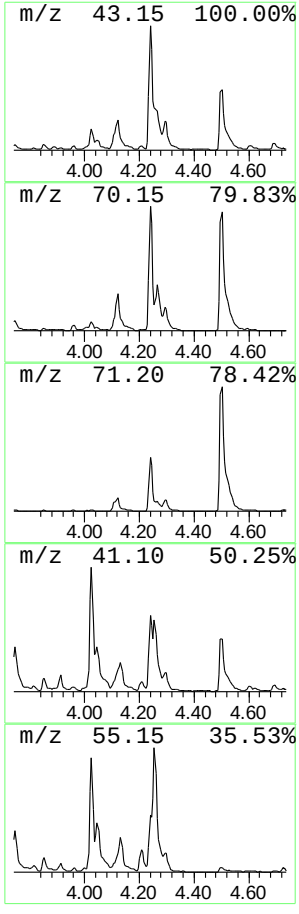
****

Peak Number 4 Pentane, 2,3,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.239	7.20 ug/ml	703744	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
2	Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	78
3	3,3-Dimethyl-2-pentanol	116	C7H16O	1000114-53-7	56
4	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	56
5	Propanoic acid, 2-methyl-, 3-met...	158	C9H18O2	002050-01-3	56





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13709.D
Acq On : 8 Oct 2009 9:55 pm
Operator : sheilac
Sample : t39169-4
Misc : op13205,Ej630,985,,,1,1,water
ALS Vial : 8 Sample Multiplier: 1

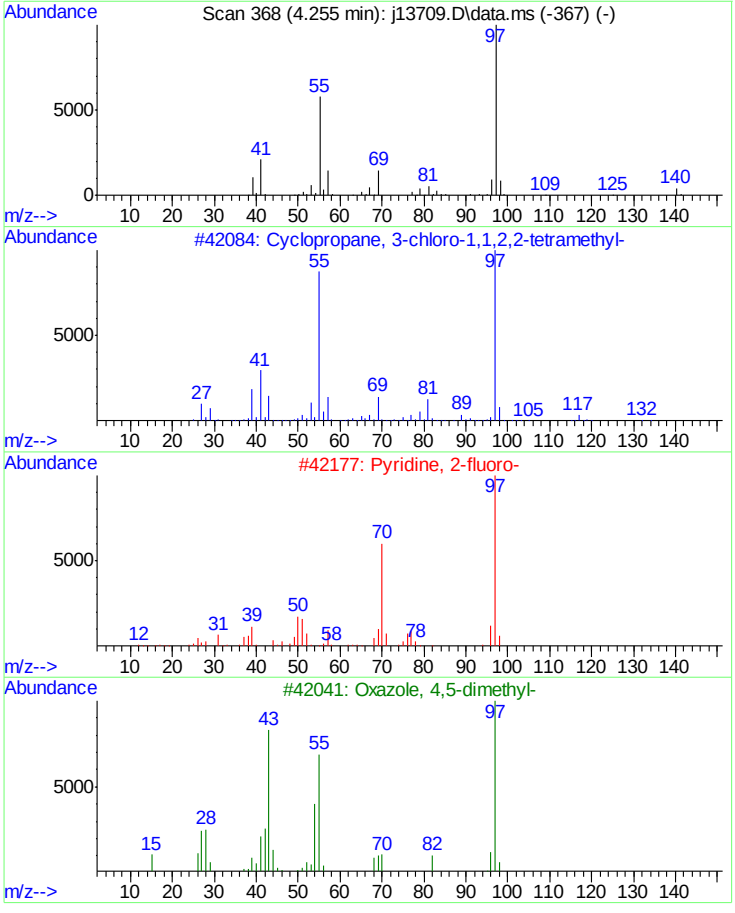
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

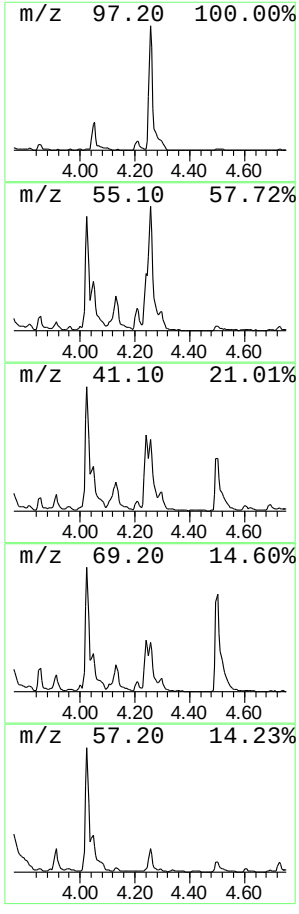
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Cyclopropane, 3-chloro-1,1,... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.255	7.14 ug/ml	697299	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 3-chloro-1,1,2,2-t...	132	C7H13Cl	014123-41-2	72
2	Pyridine, 2-fluoro-	97	C5H4FN	000372-48-5	64
3	Oxazole, 4,5-dimethyl-	97	C5H7NO	020662-83-3	64
4	1-(1-Methyl-cyclohexyl)-ethanone	140	C9H16O	1000193-88-2	58
5	2-Pentene, 3,4,4-trimethyl-	112	C8H16	000598-96-9	56





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13709.D
Acq On    :  8 Oct 2009   9:55 pm
Operator  : sheilac
Sample    : t39169-4
Misc      : op13205,Ej630,985,,,1,1,water
ALS Vial  : 8   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

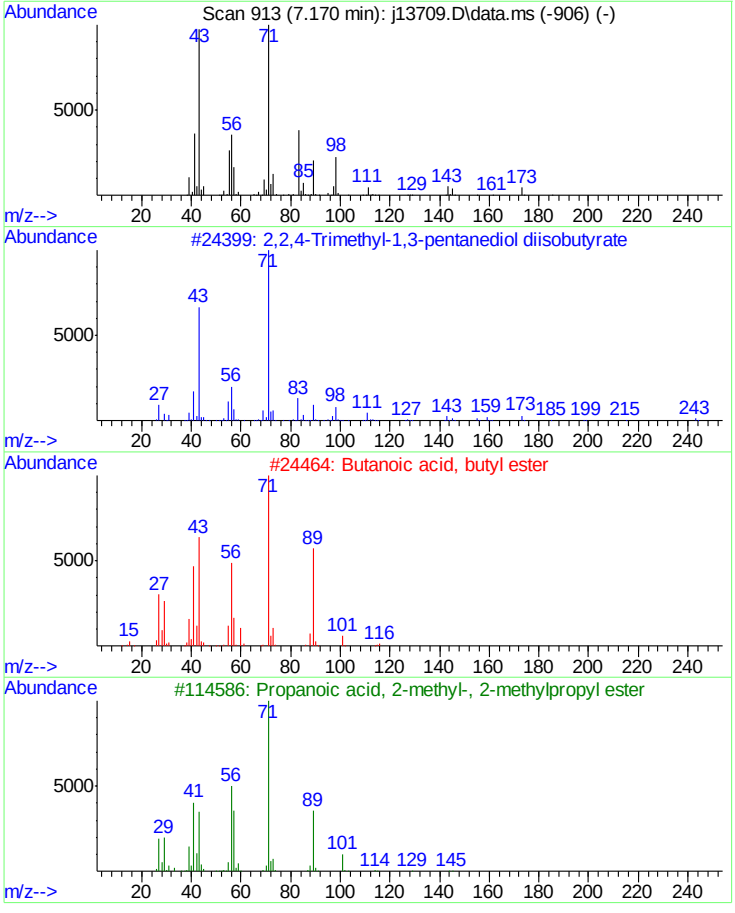
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

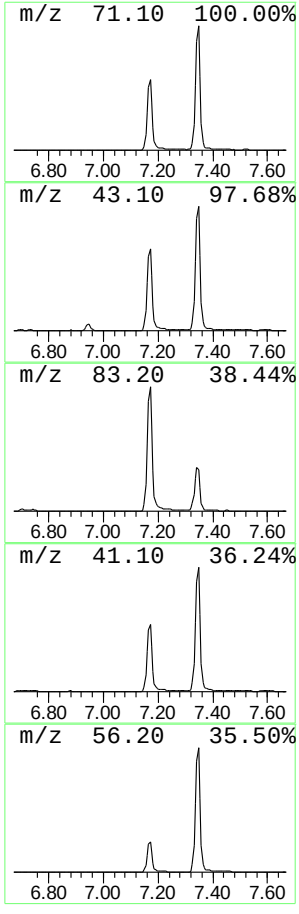
****

Peak Number 6 2,2,4-Trimethyl-1,3-pentane... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.170	16.08 ug/ml	1922540	Naphthalene-d8	5.940

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	53
2	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	47
3	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	47
4	3-Hexenoic acid, 5-hydroxy-2-met...	144	C7H12O3	110678-36-9	45
5	Propanoic acid, 2-methyl-, 2,2-d...	216	C12H24O3	074367-33-2	42





ACCUTEST Laboratories T39169

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13709.D
Acq On : 8 Oct 2009 9:55 pm
Operator : sheilac
Sample : t39169-4
Misc : op13205,Ej630,985,,,1,1,water
ALS Vial : 8 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
Furan, 2,3-dihy...	4.025	9.2	ug/ml	901431	1	4.726	3907650	40.0
Cyclohexane, 1-...	4.047	5.1	ug/ml	499614	1	4.726	3907650	40.0
2,3,3-Trimethyl...	4.132	4.8	ug/ml	470487	1	4.726	3907650	40.0
Pentane, 2,3,4-...	4.239	7.2	ug/ml	703744	1	4.726	3907650	40.0
Cyclopropane, 3...	4.255	7.1	ug/ml	697299	1	4.726	3907650	40.0
2,2,4-Trimethyl...	7.170	16.1	ug/ml	1922540	2	5.940	4783530	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13710.D
Acq On : 8 Oct 2009 10:25 pm
Operator : sheilac
Sample : t39169-5
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 09 09:25:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

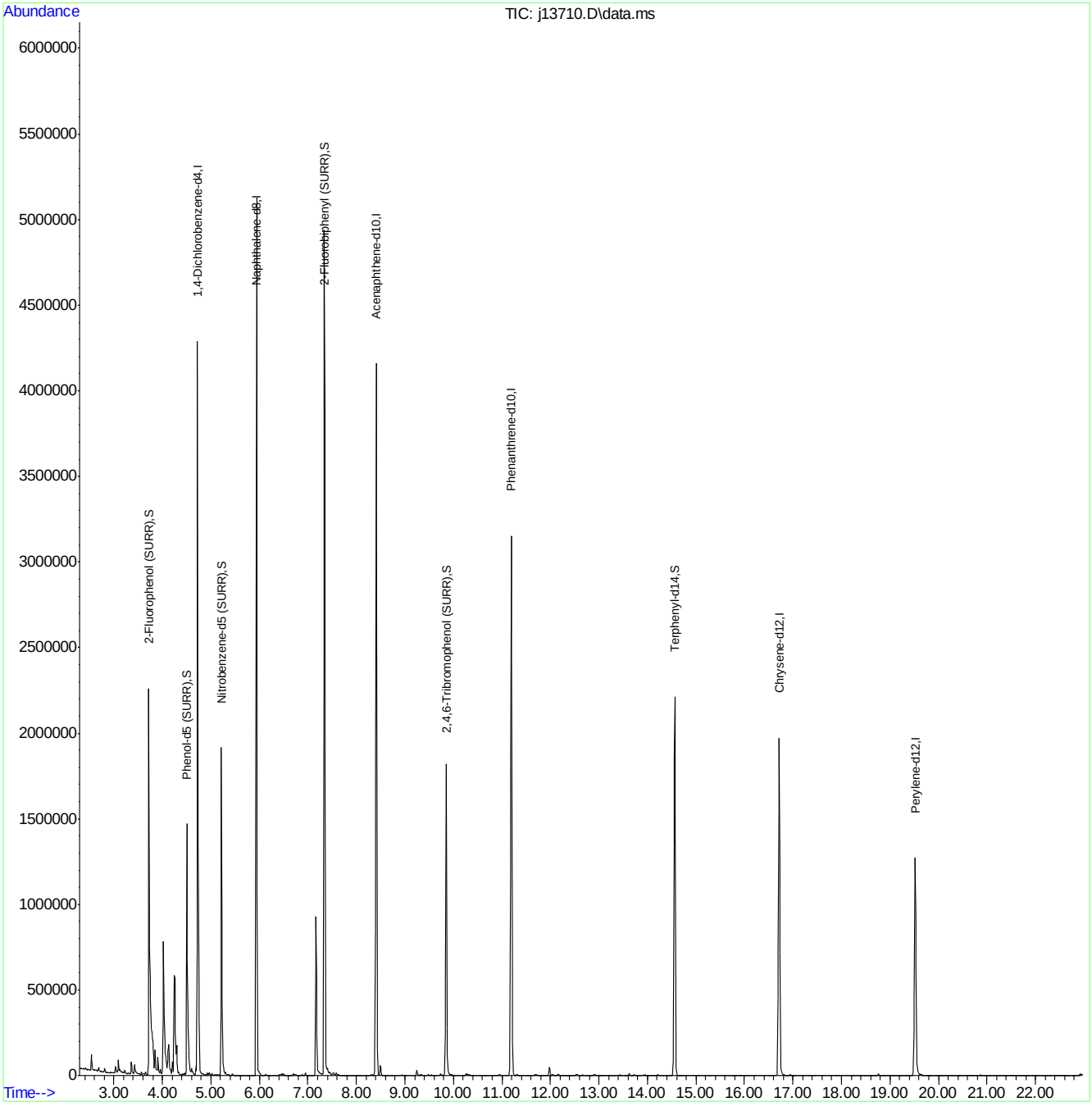
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	704576	40.00	ug/ml	0.00
20) Naphthalene-d8	5.940	136	2519638	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.411	164	1384023	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.198	188	2039115	40.00	ug/ml	0.00
71) Chrysene-d12	16.718	240	1461726	40.00	ug/ml	-0.02
80) Perylene-d12	19.520	264	1009848	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	863188	39.04	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 39.04%			
5) Phenol-d5 (SURR)	4.501	99	721033	26.09	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 26.09%			
21) Nitrobenzene-d5 (SURR)	5.218	82	722240	27.33	ug/ml	-0.08
Spiked Amount 50.000	Range 29 - 115		Recovery = 54.66%			
40) 2-Fluorobiphenyl (SURR)	7.341	172	1329859	24.01	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 48.02%			
62) 2,4,6-Tribromophenol (...	9.855	330	321269	46.83	ug/ml	-0.11
Spiked Amount 100.000	Range 32 - 128		Recovery = 46.83%			
74) Terphenyl-d14	14.562	244	1140615	32.68	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 65.36%			
Target Compounds						Qvalue

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

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13710.D
Acq On : 8 Oct 2009 10:25 pm
Operator : sheilac
Sample : t39169-5
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 09 09:25:16 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13710.D
Acq On : 8 Oct 2009 10:25 pm
Operator : sheilac
Sample : t39169-5
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 9 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: j13710.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.538	44	47	53	rBV	90827	81409	1.29%	0.148%
2	3.362	197	201	206	rBV	71347	67403	1.07%	0.122%
3	3.426	210	213	226	rVB	55415	76125	1.21%	0.138%
4	3.720	265	268	289	rBV	2251558	3656940	58.11%	6.643%
5	3.849	289	292	297	rVV2	134642	158058	2.51%	0.287%
6	3.908	301	303	310	rVB	91617	81703	1.30%	0.148%
7	4.020	321	324	327	rBV	754146	766281	12.18%	1.392%
8	4.132	338	345	356	rVB2	169933	357039	5.67%	0.649%
9	4.207	356	359	362	rBV2	68291	68538	1.09%	0.124%
10	4.239	362	365	366	rVV	571907	460945	7.33%	0.837%
11	4.255	366	368	373	rVV	550506	642759	10.21%	1.168%
12	4.293	373	375	381	rVB	163567	166831	2.65%	0.303%
13	4.501	410	414	430	rBV	1465066	2270093	36.08%	4.124%
14	4.726	452	456	469	rVB	4279438	4701946	74.72%	8.541%
15	5.218	543	548	561	rBV	1916051	2272490	36.11%	4.128%
16	5.940	677	683	703	rBV	5126095	5853307	93.02%	10.632%
17	7.165	907	912	928	rBV	929875	1272502	20.22%	2.311%
18	7.341	938	945	954	rBV	4933337	6292611	100.00%	11.430%
19	8.411	1135	1145	1155	rBV	4161435	6196264	98.47%	11.255%
20	8.497	1156	1161	1169	rVB2	58547	81733	1.30%	0.148%
21	9.850	1407	1414	1438	rBV	1820974	3033004	48.20%	5.509%
22	11.198	1655	1666	1681	rBV2	3153141	5708149	90.71%	10.369%
23	11.979	1807	1812	1820	rBV	49315	66800	1.06%	0.121%
24	14.562	2283	2295	2305	rBV2	2214125	3894197	61.89%	7.074%
25	16.718	2687	2698	2725	rBV	1972143	4050094	64.36%	7.357%
26	19.520	3211	3222	3245	rBV	1272445	2774483	44.09%	5.040%

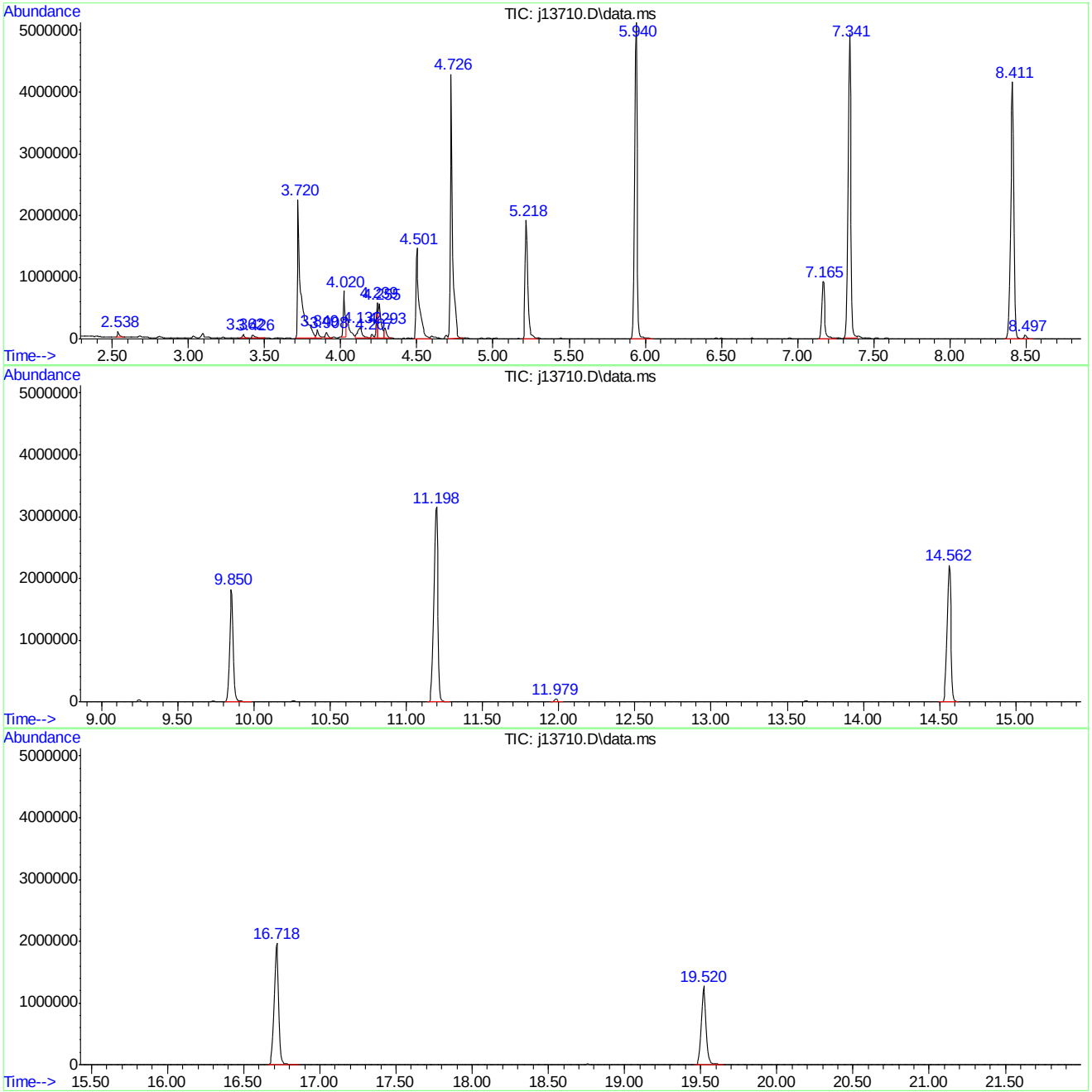
Sum of corrected areas: 55051704

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13710.D
Acq On : 8 Oct 2009 10:25 pm
Operator : sheilac
Sample : t39169-5
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 9 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

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Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13710.D
Acq On    :  8 Oct 2009  10:25 pm
Operator  : sheilac
Sample    : t39169-5
Misc      : op13205,Ej630,1000,,,1,1,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

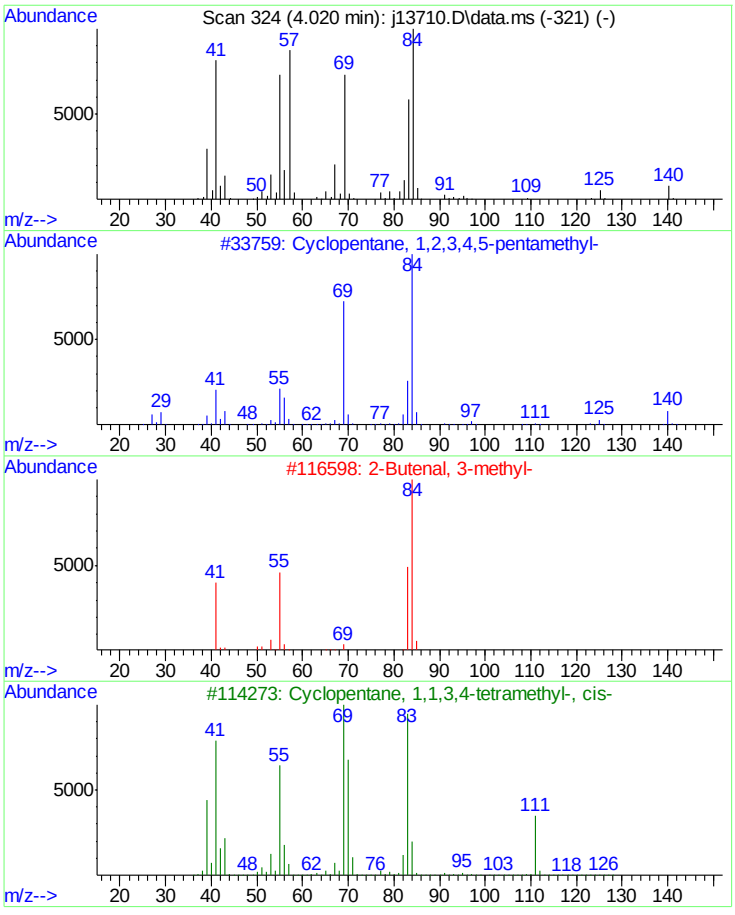
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

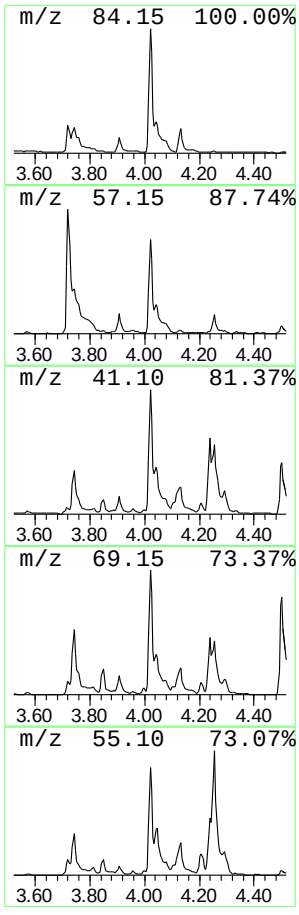
****

Peak Number 1 Cyclopentane, 1,2,3,4,5-pen... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.020	6.52 ug/ml	766281	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopentane, 1,2,3,4,5-pentamet...	140	C10H20	1000152-79-7	64
2	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	43
3	Cyclopentane, 1,1,3,4-tetramethy...	126	C9H18	053907-60-1	43
4	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	43
5	2-Pentenal, (E)-	84	C5H8O	001576-87-0	43





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13710.D
Acq On : 8 Oct 2009 10:25 pm
Operator : sheilac
Sample : t39169-5
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

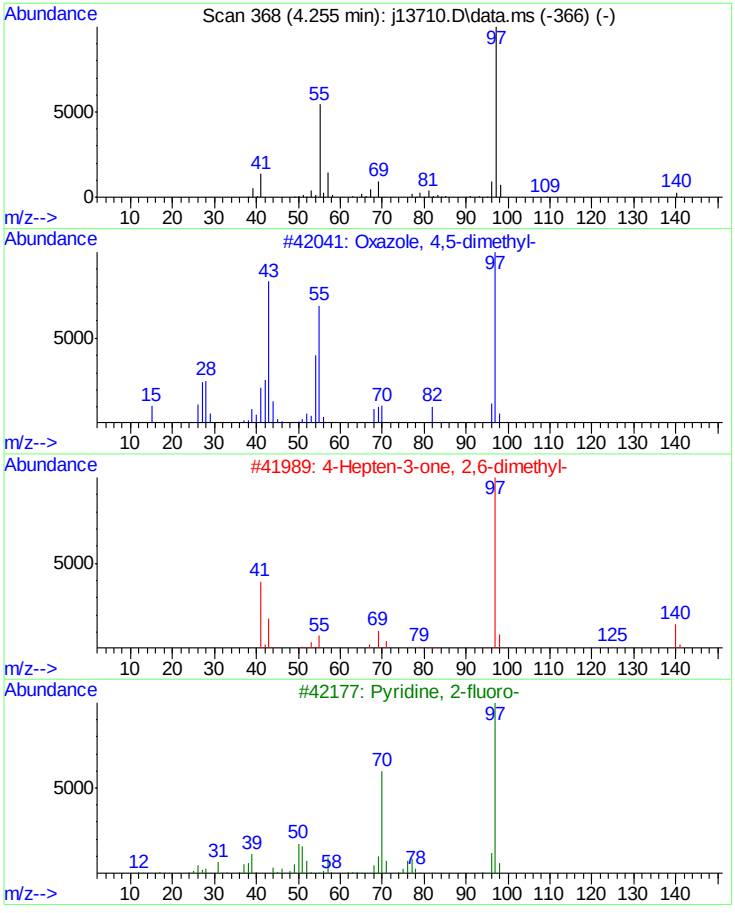
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

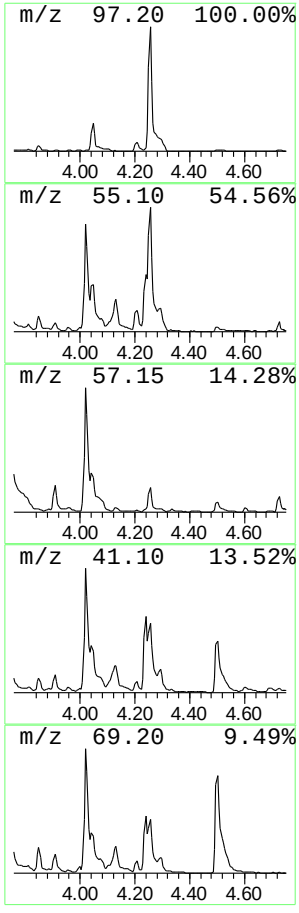
****

Peak Number 2 Oxazole, 4,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.255	5.47 ug/ml	642759	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxazole, 4,5-dimethyl-	97	C5H7NO	020662-83-3	64
2	4-Hepten-3-one, 2,6-dimethyl-	140	C9H16O	056259-14-4	64
3	Pyridine, 2-fluoro-	97	C5H4FN	000372-48-5	64
4	Cycloheptane, bromo-	176	C7H13Br	002404-35-5	59
5	2-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-40-4	50





8.1.10 8

Library Search Compound Report

```
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13710.D
Acq On    :  8 Oct 2009  10:25 pm
Operator  : sheilac
Sample    : t39169-5
Misc      : op13205,Ej630,1000,,,1,1,water
ALS Vial  : 9   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

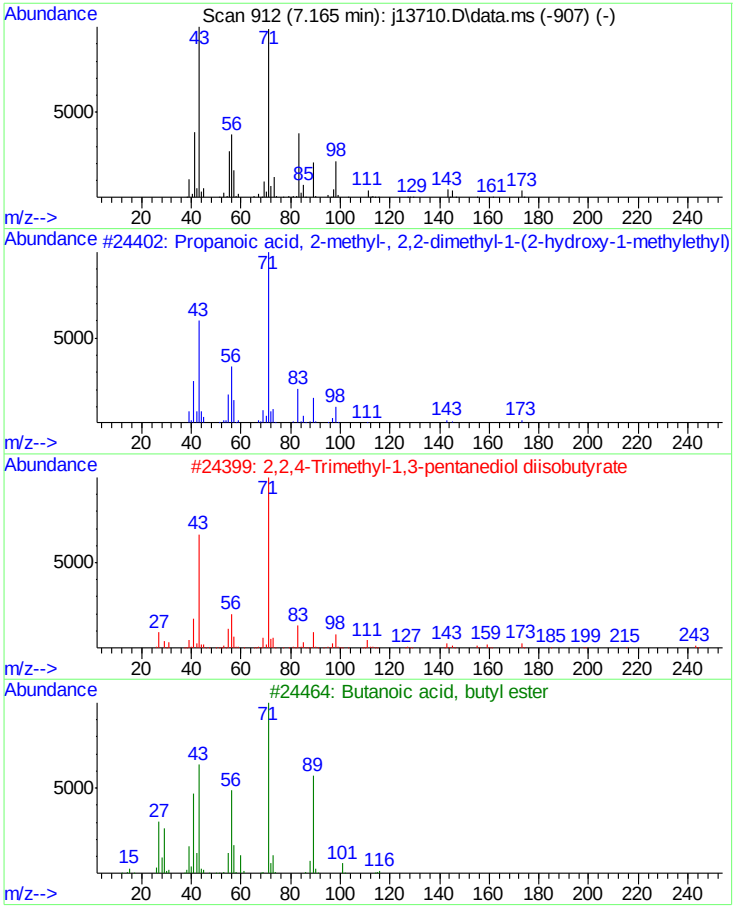
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

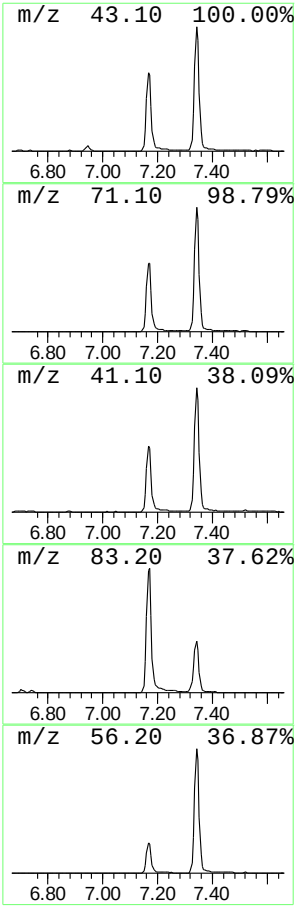
****

Peak Number 3 Propanoic acid, 2-methyl-, ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.165	8.70 ug/ml	1272500	Naphthalene-d8	5.940

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propanoic acid, 2-methyl-, 2,2-d...	216	C12H24O3	074367-33-2	56
2	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	53
3	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	50
4	Propanoic acid, 2-methyl-, 2-met...	144	C8H16O2	000097-85-8	50
5	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	47





8.1.10 8

Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13710.D
Acq On : 8 Oct 2009 10:25 pm
Operator : sheilac
Sample : t39169-5
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 9 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
Cyclopentane, 1...	4.020	6.5	ug/ml	766281	1	4.726	4701950	40.0
Oxazole, 4,5-di...	4.255	5.5	ug/ml	642759	1	4.726	4701950	40.0
Propanoic acid,...	7.165	8.7	ug/ml	1272500	2	5.940	5853310	40.0

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13711.D
Acq On : 8 Oct 2009 10:56 pm
Operator : sheilac
Sample : t39169-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 09 09:25:48 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	587401	40.00	ug/ml	0.00
20) Naphthalene-d8	5.935	136	2003115	40.00	ug/ml	-0.01
36) Acenaphthene-d10	8.406	164	1028694	40.00	ug/ml	-0.01
57) Phenanthrene-d10	11.192	188	1369883	40.00	ug/ml	-0.01
71) Chrysene-d12	16.707	240	705408	40.00	ug/ml	-0.03
80) Perylene-d12	19.515	264	489681	40.00	ug/ml	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.726	112	1100091	59.68	ug/ml	0.05
Spiked Amount 100.000	Range 10 - 66		Recovery = 59.68%			
5) Phenol-d5 (SURR)	4.501	99	962778	41.79	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 41.79%			
21) Nitrobenzene-d5 (SURR)	5.218	82	908508	43.25	ug/ml	-0.08
Spiked Amount 50.000	Range 29 - 115		Recovery = 86.50%			
40) 2-Fluorobiphenyl (SURR)	7.341	172	1653861	39.64	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 79.28%			
62) 2,4,6-Tribromophenol (...	9.855	330	372601	80.84	ug/ml	-0.11
Spiked Amount 100.000	Range 32 - 128		Recovery = 80.84%			
74) Terphenyl-d14	14.562	244	878566	52.16	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 104.32%			

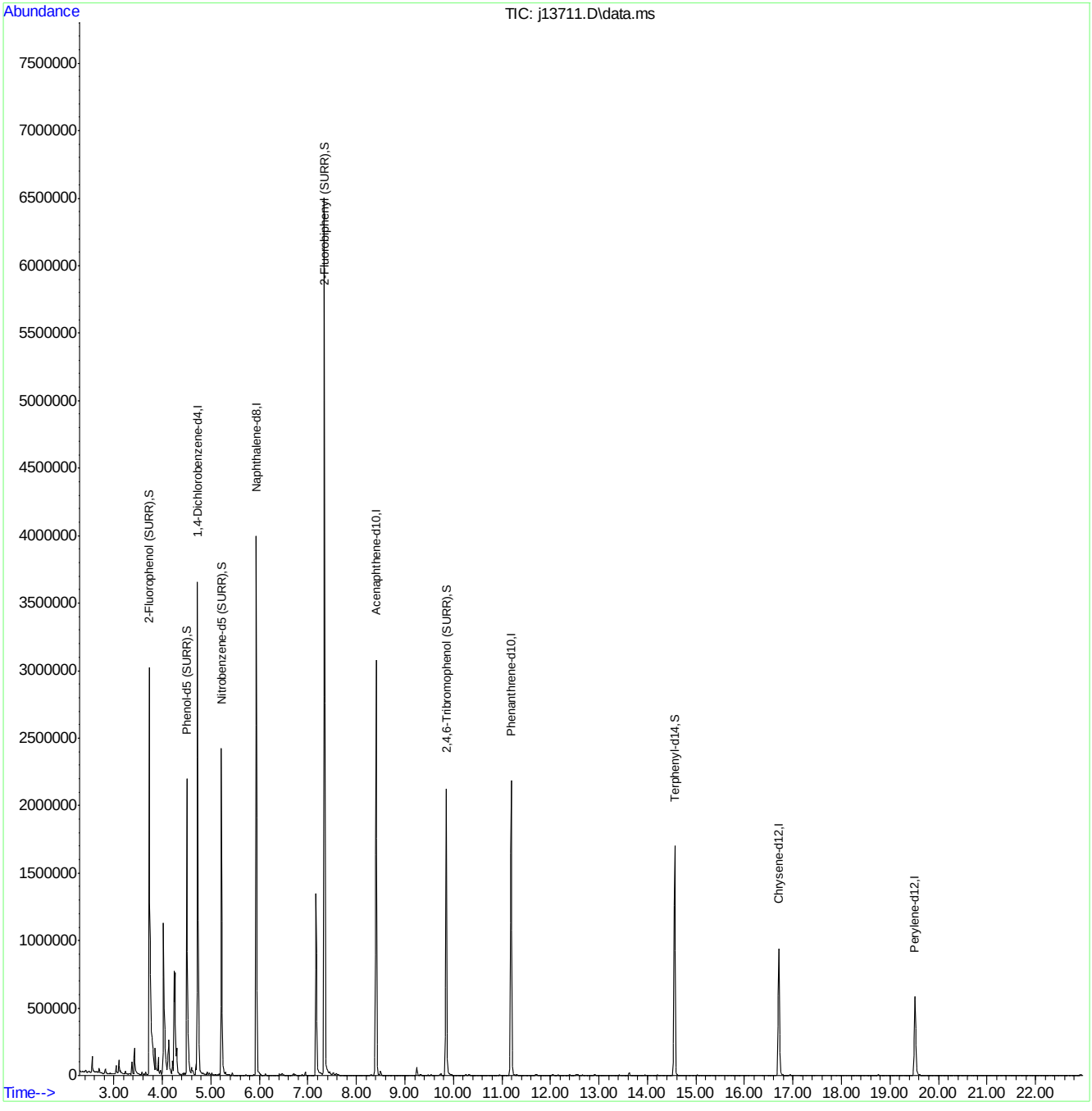
Target Compounds Qvalue

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

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13711.D
Acq On : 8 Oct 2009 10:56 pm
Operator : sheilac
Sample : t39169-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 09 09:25:48 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration



ACCUTEST Laboratories

LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13711.D
Acq On : 8 Oct 2009 10:56 pm
Operator : sheilac
Sample : t39169-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 10 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: j13711.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.549	46	49	61	rVB	119319	121564	1.47%	0.235%
2	3.105	149	153	156	rBV	93548	93310	1.12%	0.180%
3	3.367	198	202	209	rBV	90962	95610	1.15%	0.185%
4	3.421	209	212	229	rVB	192923	243826	2.94%	0.471%
5	3.726	266	269	290	rBV	3006971	4738631	57.11%	9.157%
6	3.854	290	293	298	rVV	186742	212864	2.57%	0.411%
7	3.913	301	304	309	rVB	120546	113270	1.37%	0.219%
8	4.025	321	325	328	rBV2	1089984	1127451	13.59%	2.179%
9	4.132	338	345	356	rVB2	253937	486217	5.86%	0.940%
10	4.207	356	359	362	rBV	98200	98163	1.18%	0.190%
11	4.239	362	365	367	rVV	761222	736448	8.88%	1.423%
12	4.255	367	368	373	rVV2	747254	714522	8.61%	1.381%
13	4.293	373	375	381	rVB	182634	200795	2.42%	0.388%
14	4.501	410	414	430	rBV	2191657	3008691	36.26%	5.814%
15	4.694	446	450	452	rBV	80584	86151	1.04%	0.166%
16	4.726	452	456	466	rVB	3634172	3870472	46.65%	7.479%
17	5.218	543	548	561	rBV	2414500	2850450	34.35%	5.508%
18	5.935	676	682	690	rBV	3993203	4634941	55.86%	8.957%
19	7.170	906	913	938	rBV	1347583	1872151	22.56%	3.618%
20	7.341	938	945	961	rBV	6492135	8297087	100.00%	16.033%
21	8.406	1136	1144	1157	rBV	3078159	4607821	55.54%	8.904%
22	9.850	1406	1414	1433	rBV	2120730	3510799	42.31%	6.784%
23	11.192	1655	1665	1680	rBV2	2183046	3830895	46.17%	7.403%
24	14.562	2286	2295	2308	rVB2	1698238	2999001	36.15%	5.795%
25	16.707	2687	2696	2716	rBV	942967	1898370	22.88%	3.668%
26	19.515	3211	3221	3241	rBV	585800	1299391	15.66%	2.511%

Sum of corrected areas: 51748891

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13711.D
Acq On    :  8 Oct 2009  10:56 pm
Operator  : sheilac
Sample    : t39169-6
Misc      : op13205,Ej630,1000,,,1,1,water
ALS Vial  : 10   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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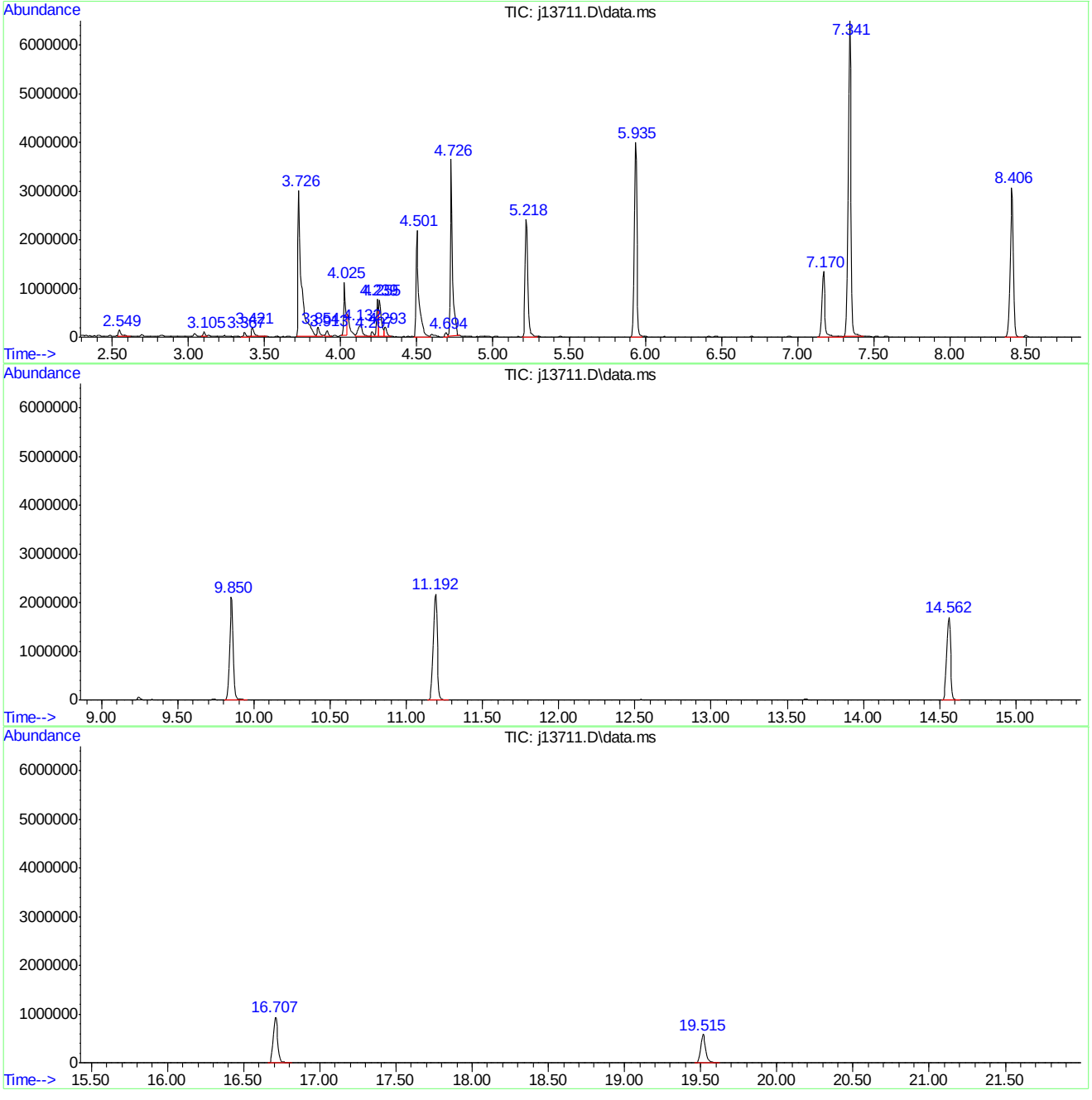


Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13711.D
Acq On : 8 Oct 2009 10:56 pm
Operator : sheilac
Sample : t39169-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

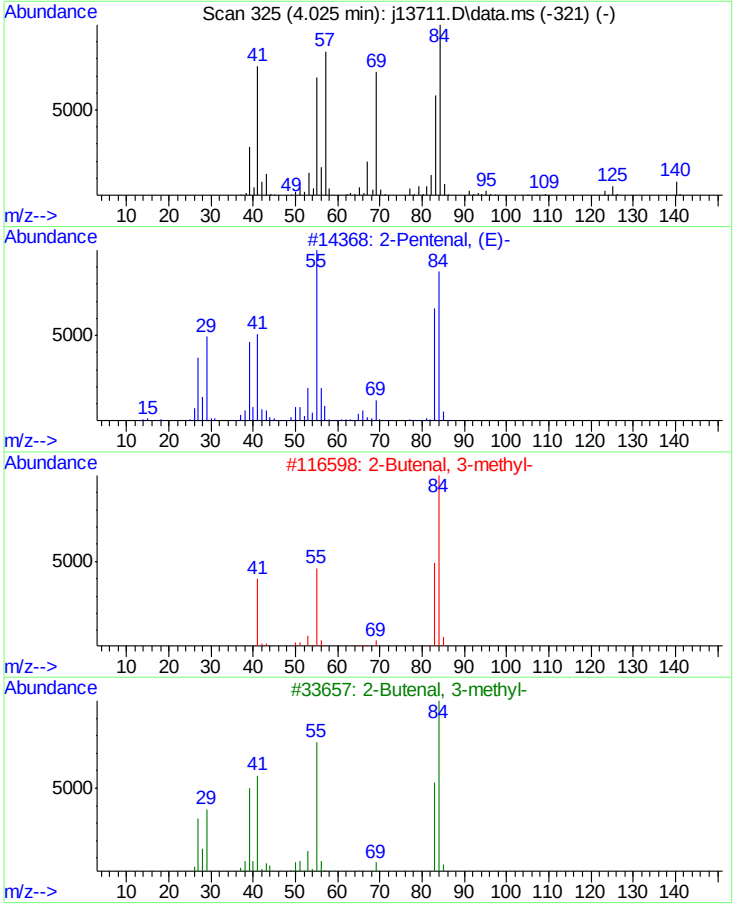
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

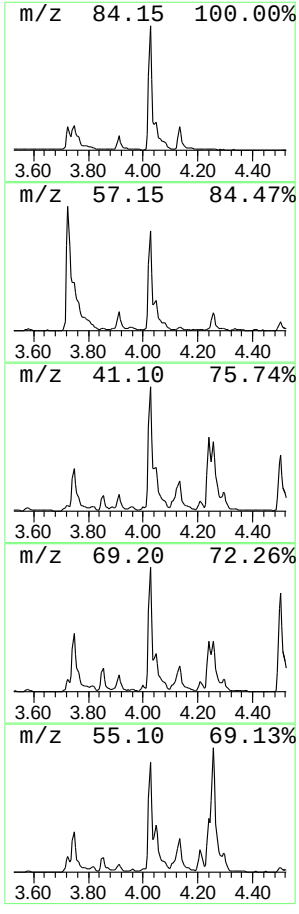
****

Peak Number 1 2-Pentenal, (E)- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.025	11.65 ug/ml	1127450	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentenal, (E)-	84	C5H8O	001576-87-0	53
2	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	52
3	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	52
4	2-Butene, 2,3-dimethyl-	84	C6H12	000563-79-1	43
5	Furan, 2,3-dihydro-3-methyl-	84	C5H8O	001708-27-6	43





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13711.D
Acq On : 8 Oct 2009 10:56 pm
Operator : sheilac
Sample : t39169-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

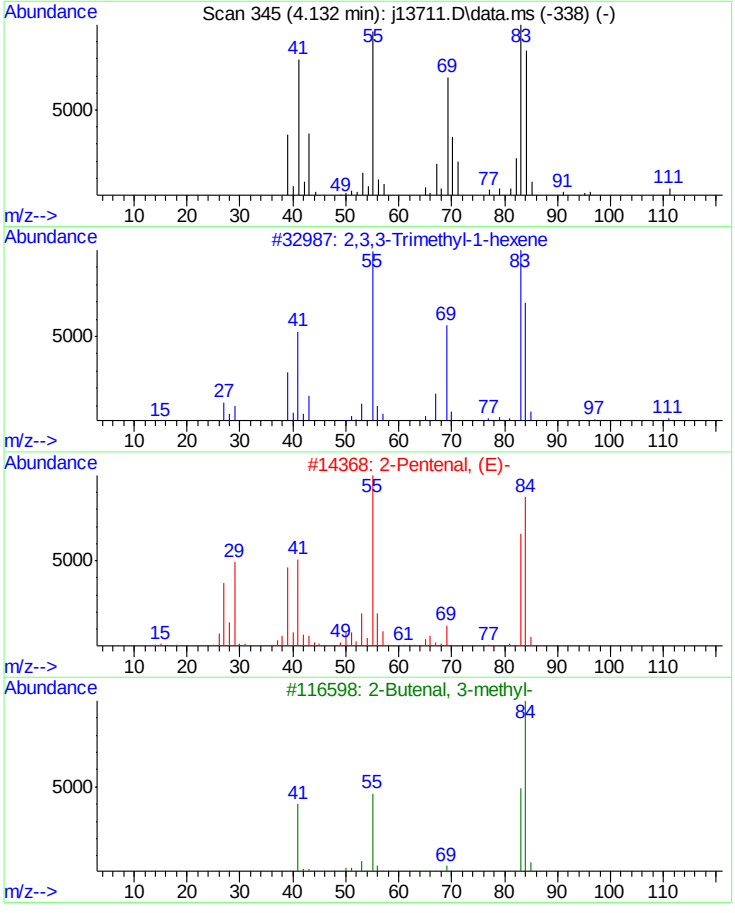
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

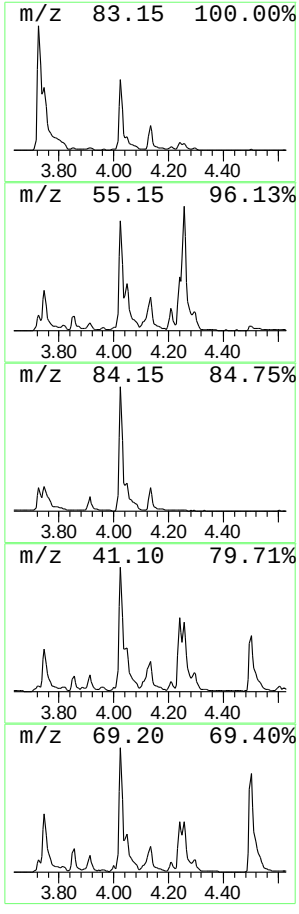
****

Peak Number 2 2,3,3-Trimethyl-1-hexene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.132	5.02 ug/ml	486217	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3,3-Trimethyl-1-hexene	126	C9H18	1000113-52-1	72
2	2-Pentenal, (E)-	84	C5H8O	001576-87-0	43
3	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	43
4	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	43
5	Dicyclopropyl carbinol	112	C7H12O	014300-33-5	42





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13711.D
Acq On : 8 Oct 2009 10:56 pm
Operator : sheilac
Sample : t39169-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

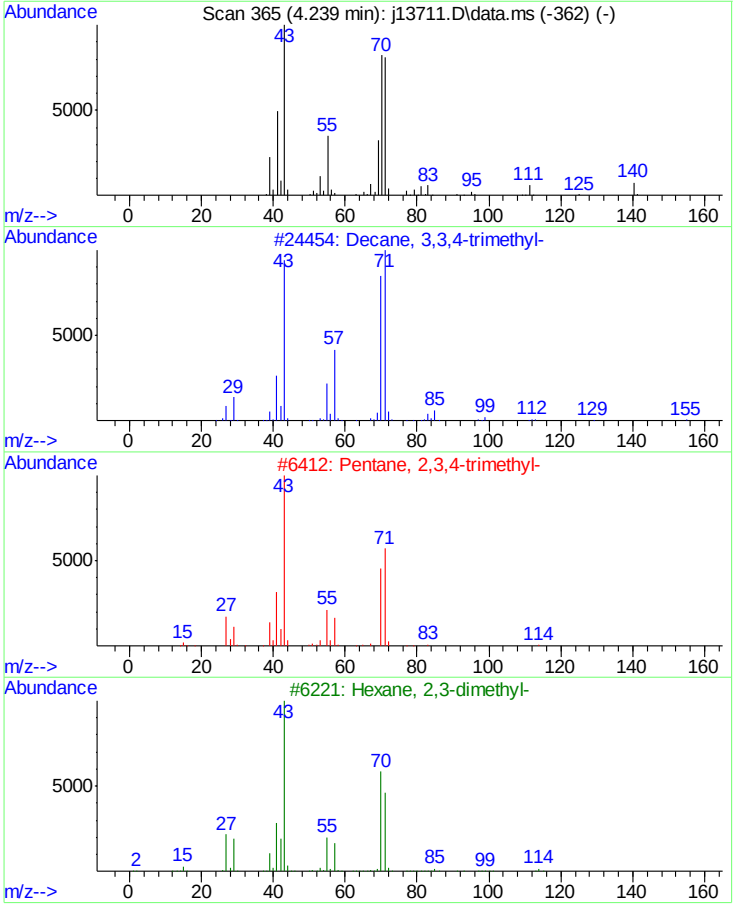
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

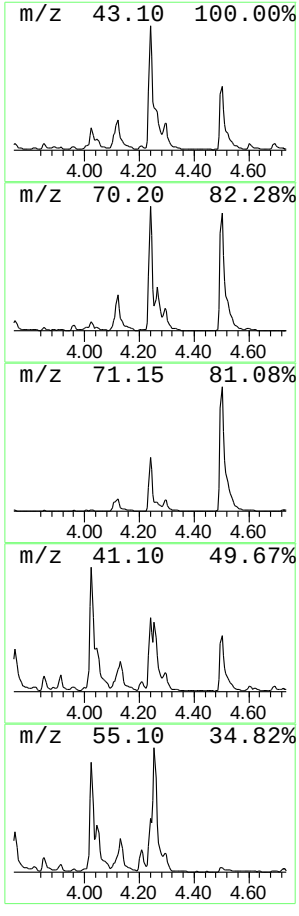
****

Peak Number 3 Decane, 3,3,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.239	7.61 ug/ml	736448	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	78
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
3	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	72
4	Heptane, 4-methyl-	114	C8H18	000589-53-7	72
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13711.D
Acq On : 8 Oct 2009 10:56 pm
Operator : sheilac
Sample : t39169-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

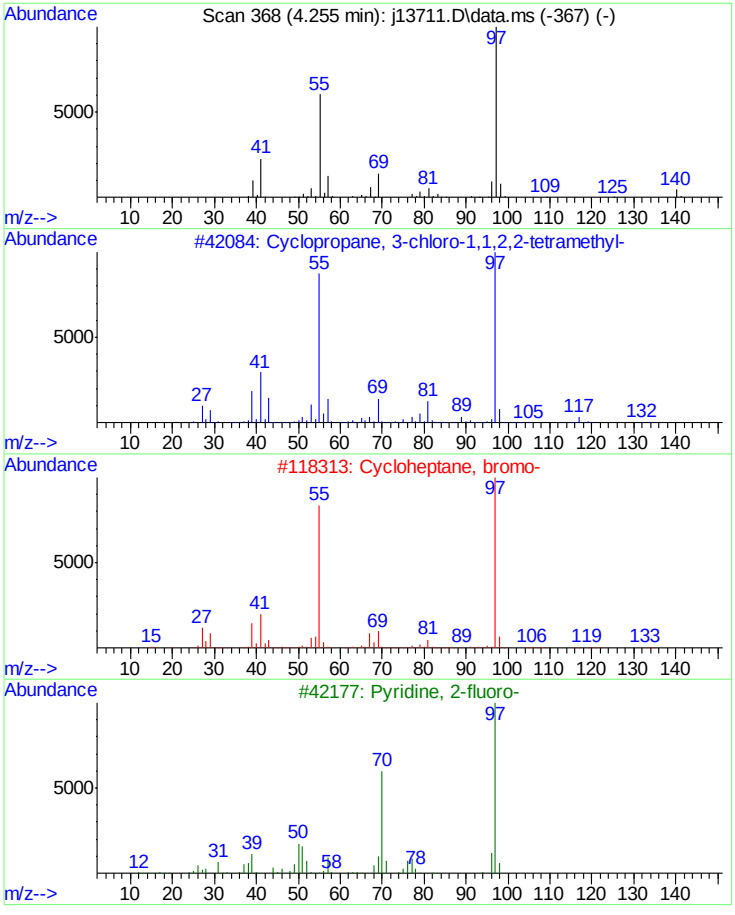
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

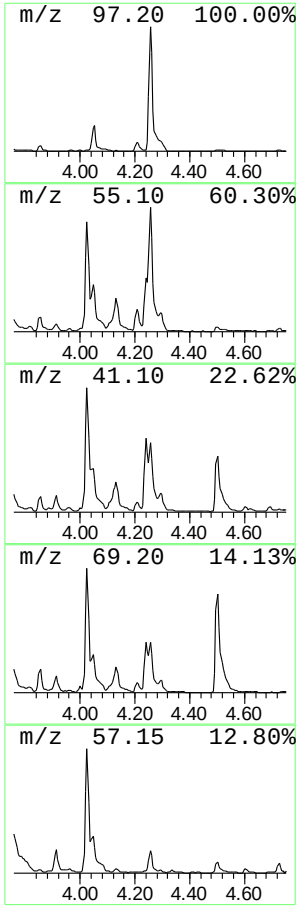
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Cyclopropane, 3-chloro-1,1,... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.255	7.38 ug/ml	714522	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopropane, 3-chloro-1,1,2,2-t...	132	C7H13Cl	014123-41-2	72
2	Cycloheptane, bromo-	176	C7H13Br	002404-35-5	64
3	Pyridine, 2-fluoro-	97	C5H4FN	000372-48-5	64
4	Oxazole, 4,5-dimethyl-	97	C5H7NO	020662-83-3	64
5	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	56





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13711.D
Acq On    :  8 Oct 2009  10:56 pm
Operator  : sheilac
Sample    : t39169-6
Misc      : op13205,Ej630,1000,,,1,1,water
ALS Vial  : 10   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

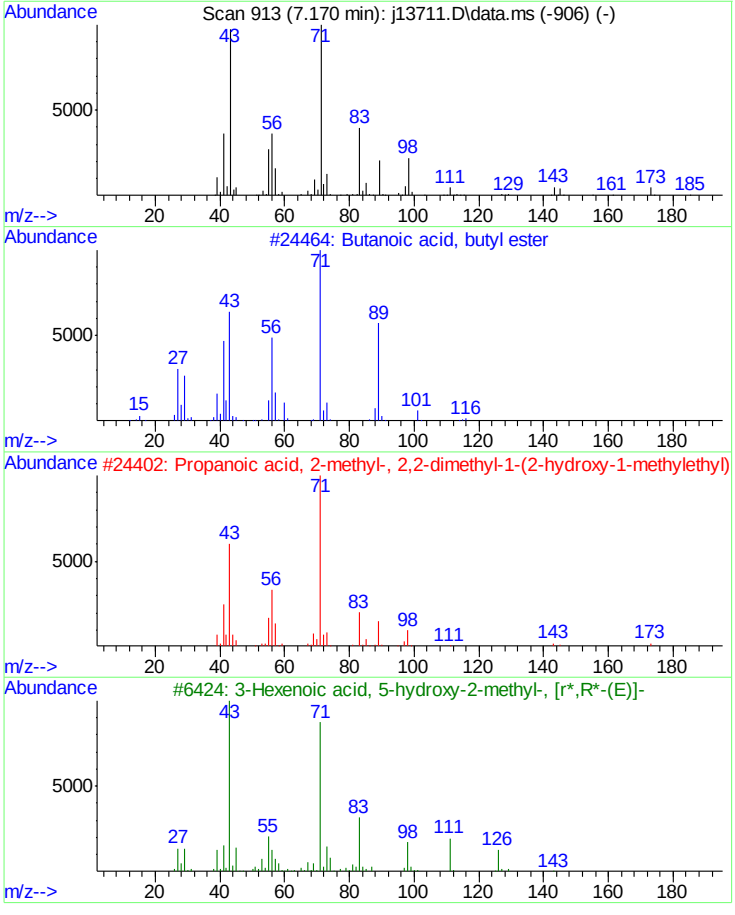
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

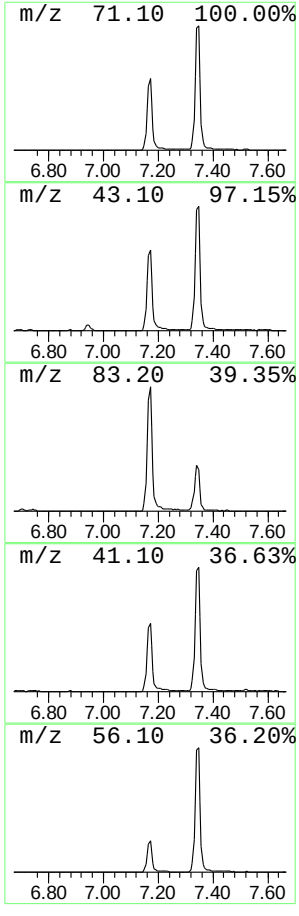
****

Peak Number 5 Butanoic acid, butyl ester Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.170	16.25 ug/ml	1872150	Acenaphthene-d10	8.406

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	47
2	Propanoic acid, 2-methyl-, 2,2-d...	216	C12H24O3	074367-33-2	45
3	3-Hexenoic acid, 5-hydroxy-2-met...	144	C7H12O3	110678-36-9	45
4	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	43
5	Butanoic acid, 1-methylethyl ester	130	C7H14O2	000638-11-9	38





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13711.D
Acq On : 8 Oct 2009 10:56 pm
Operator : sheilac
Sample : t39169-6
Misc : op13205,Ej630,1000,,,1,1,water
ALS Vial : 10 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
2-Pentenal, (E)-	4.025	11.7	ug/ml	1127450	1	4.726	3870470	40.0
2,3,3-Trimethyl...	4.132	5.0	ug/ml	486217	1	4.726	3870470	40.0
Decane, 3,3,4-t...	4.239	7.6	ug/ml	736448	1	4.726	3870470	40.0
Cyclopropane, 3...	4.255	7.4	ug/ml	714522	1	4.726	3870470	40.0
Butanoic acid, ...	7.170	16.3	ug/ml	1872150	3	8.406	4607820	40.0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35495.D Vial: 13
Acq On : 20 Oct 2009 3:56 pm Operator: sheilac
Sample : t39169-1 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 16:31 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 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	62204	4.00 ppb	0.00
4) Naphthalene-d8	7.56	136	50791	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	45907	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	56374	4.00 ppb	0.00
21) Chrysene-d12	13.88	240	43522	4.00 ppb	0.02
26) Perylene-d12	16.33	264	12333	4.00 ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	187894	45.60 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 912.00%#		
10) 2-Fluorobiphenyl	8.87	172	1671297	60.30 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 1206.00%#		
16) 2,4,6-Tribromophenol	10.40	330	312685	106.99 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1069.90%#		
23) Terphenyl-d14	12.66	244	454934	60.01 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1200.20%#		

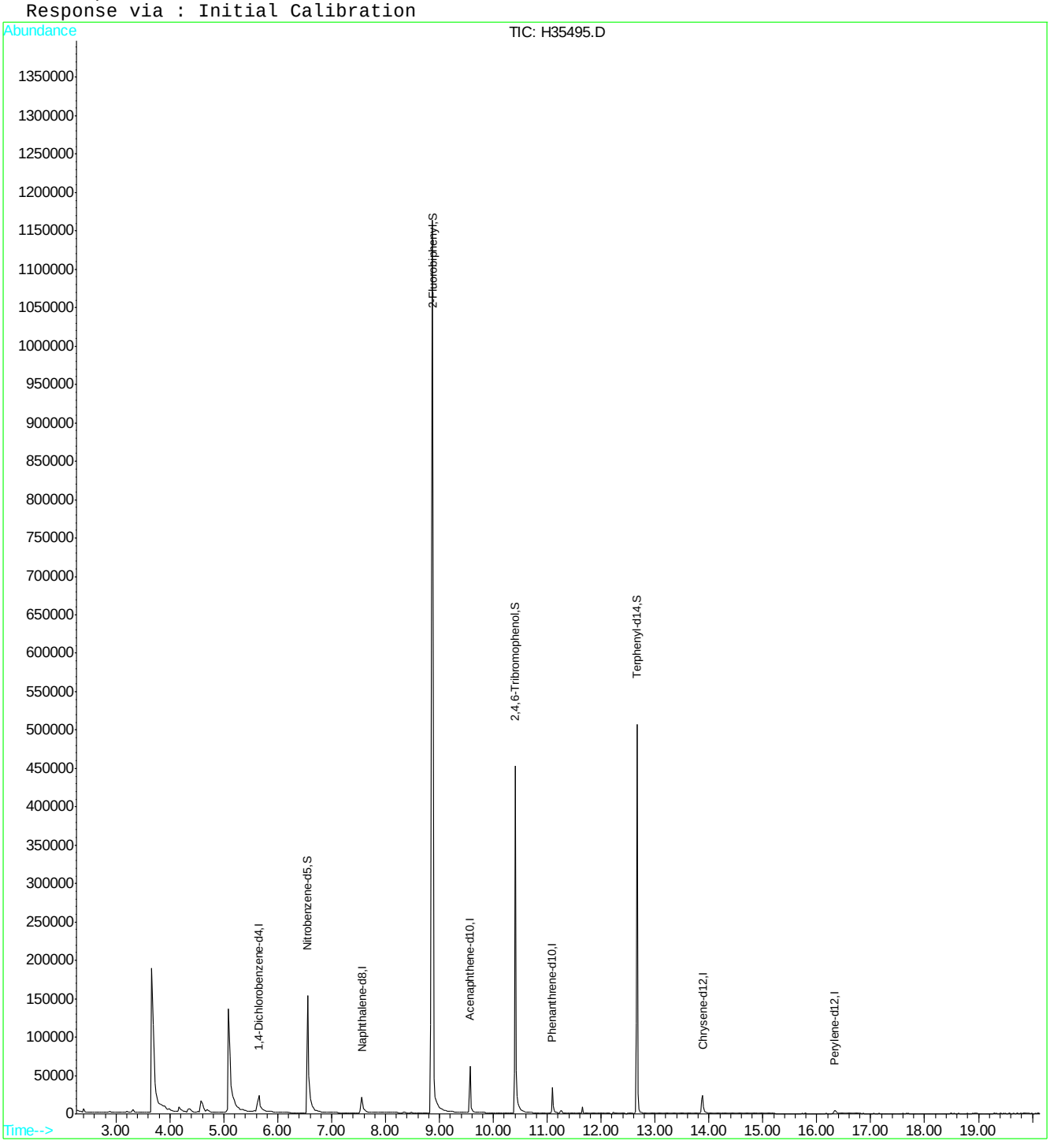
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H35495.D H10209SP.M Tue Oct 20 16:32:06 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35495.D Vial: 13
Acq On : 20 Oct 2009 3:56 pm Operator: sheilac
Sample : t39169-1 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 16:31 2009 Quant Results File: H10209SP.RES

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35496.D Vial: 14
Acq On : 20 Oct 2009 4:24 pm Operator: sheilac
Sample : t39169-2 Inst : TXMSH
Misc : OP13269,EH1917,980,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 16:48 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 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	66792	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	60616	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	51281	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	64351	4.00	ppb	0.00
21) Chrysene-d12	13.88	240	51504	4.00	ppb	0.02
26) Perylene-d12	16.33	264	15221	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	122977	25.01	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 500.20%#			
10) 2-Fluorobiphenyl	8.87	172	1058532	34.19	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 683.80%#			
16) 2,4,6-Tribromophenol	10.40	330	237694	71.25	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 712.50%#			
23) Terphenyl-d14	12.66	244	478954	55.26	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1105.20%#			

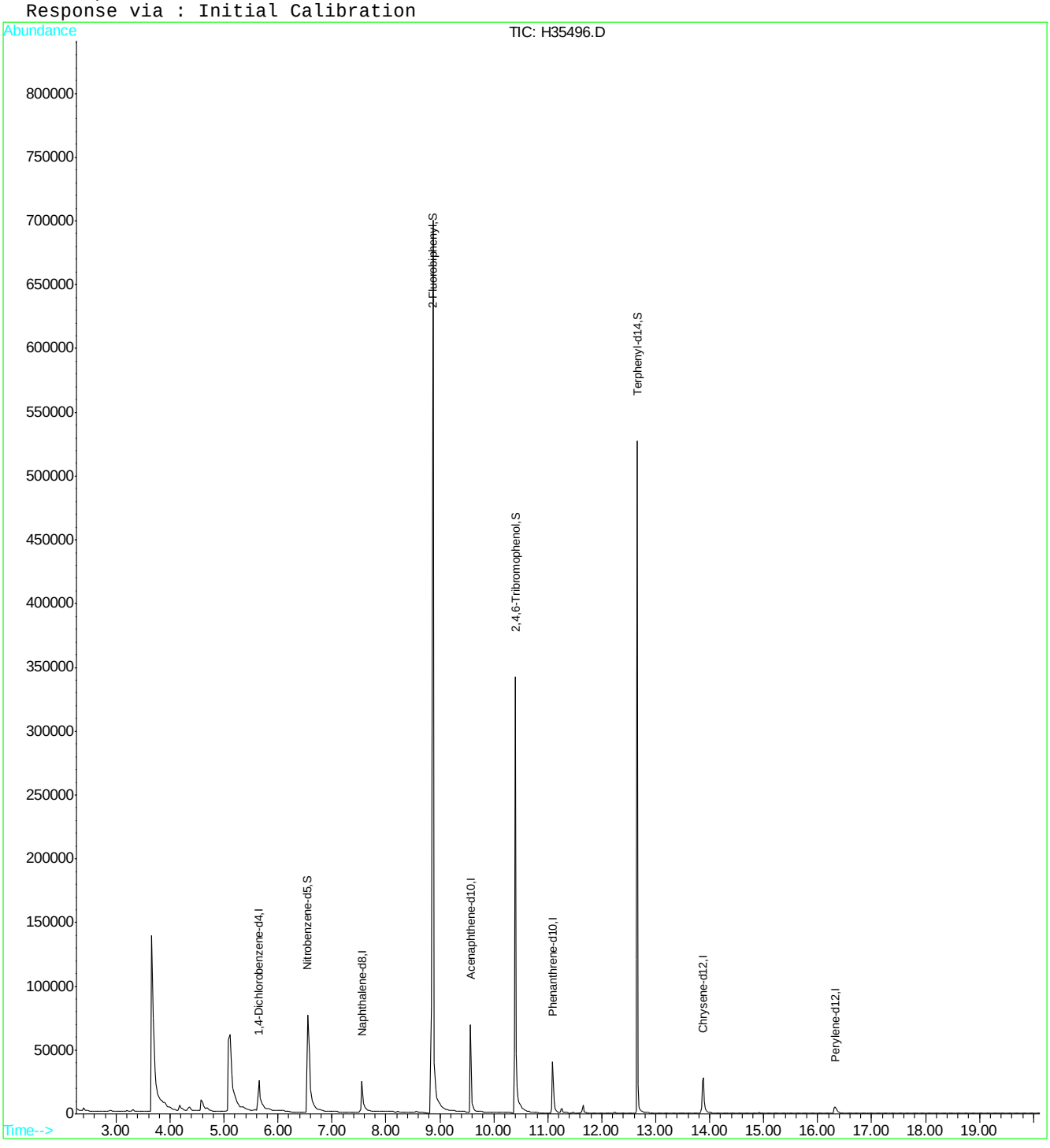
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H35496.D H10209SP.M Fri Oct 23 19:10:25 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35496.D Vial: 14
Acq On : 20 Oct 2009 4:24 pm Operator: sheilac
Sample : t39169-2 Inst : TXMSH
Misc : OP13269,EH1917,980,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 16:48 2009 Quant Results File: H10209SP.RES

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35497.D Vial: 15
Acq On : 20 Oct 2009 4:46 pm Operator: sheilac
Sample : t39169-3 Inst : TXMSH
Misc : OP13269,EH1917,970,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 17:07 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 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	70954	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	61377	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	51998	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	66005	4.00	ppb	0.00
21) Chrysene-d12	13.89	240	52907	4.00	ppb	0.02
26) Perylene-d12	16.33	264	15926	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	129633	26.04	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 520.80%#			
10) 2-Fluorobiphenyl	8.87	172	974570	31.05	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 621.00%#			
16) 2,4,6-Tribromophenol	10.40	330	228695	66.84	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 668.40%#			
23) Terphenyl-d14	12.66	244	493548	55.38	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1107.60%#			

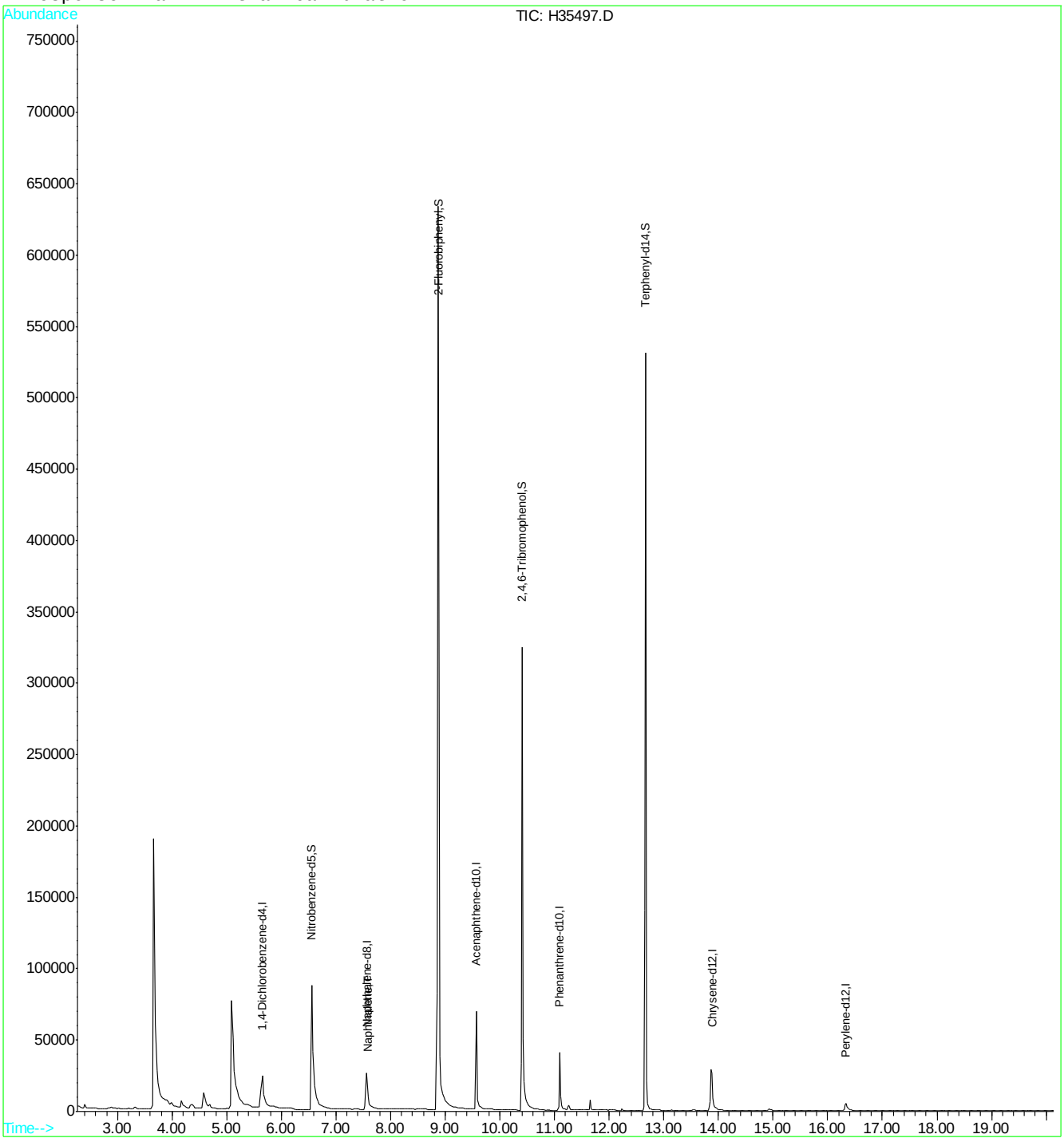
Target Compounds						Qvalue
6) Naphthalene	7.59	128	6400	0.26	ppb	93

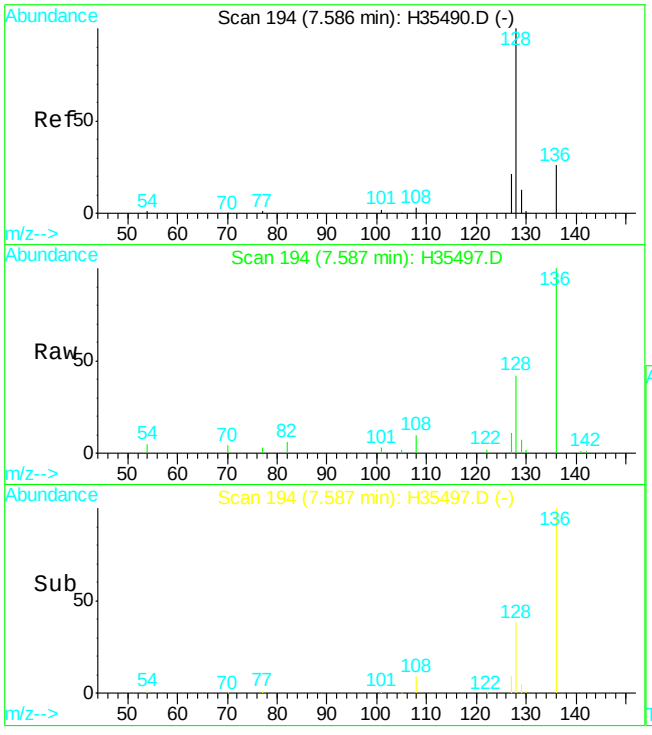
(#) = qualifier out of range (m) = manual integration
H35497.D H10209SP.M Fri Oct 23 19:10:30 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35497.D Vial: 15
Acq On : 20 Oct 2009 4:46 pm Operator: sheilac
Sample : t39169-3 Inst : TXMSH
Misc : OP13269,EH1917,970,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 17:07 2009 Quant Results File: H10209SP.RES

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Initial Calibration

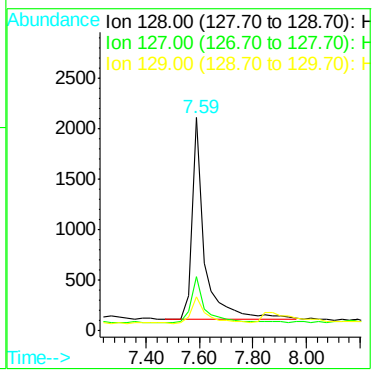




#6
Naphthalene
Concen: 0.26 ppb
RT: 7.59 min Scan# 194
Delta R.T. 0.00 min
Lab File: H35497.D
Acq: 20 Oct 2009 4:46 pm

Tgt Ion:128 Resp: 6400

Ion	Ratio	Lower	Upper
128	100		
127	22.9	12.7	23.5
129	11.7	8.9	16.5



8.1.15

8

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35498.D Vial: 16
Acq On : 20 Oct 2009 5:17 pm Operator: sheilac
Sample : t39169-4 Inst : TXMSH
Misc : OP13269,EH1917,985,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 18:42 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 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	78673	4.00 ppb	0.00
4) Naphthalene-d8	7.56	136	67314	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	60817	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	74355	4.00 ppb	0.00
21) Chrysene-d12	13.89	240	59778	4.00 ppb	0.02
26) Perylene-d12	16.33	264	16528	4.00 ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	220054	40.30 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	= 806.00%#	
10) 2-Fluorobiphenyl	8.87	172	2221536	60.51 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	= 1210.20%#	
16) 2,4,6-Tribromophenol	10.40	330	334814	86.86 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	= 868.60%#	
23) Terphenyl-d14	12.66	244	525234	53.07 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	= 1061.40%#	

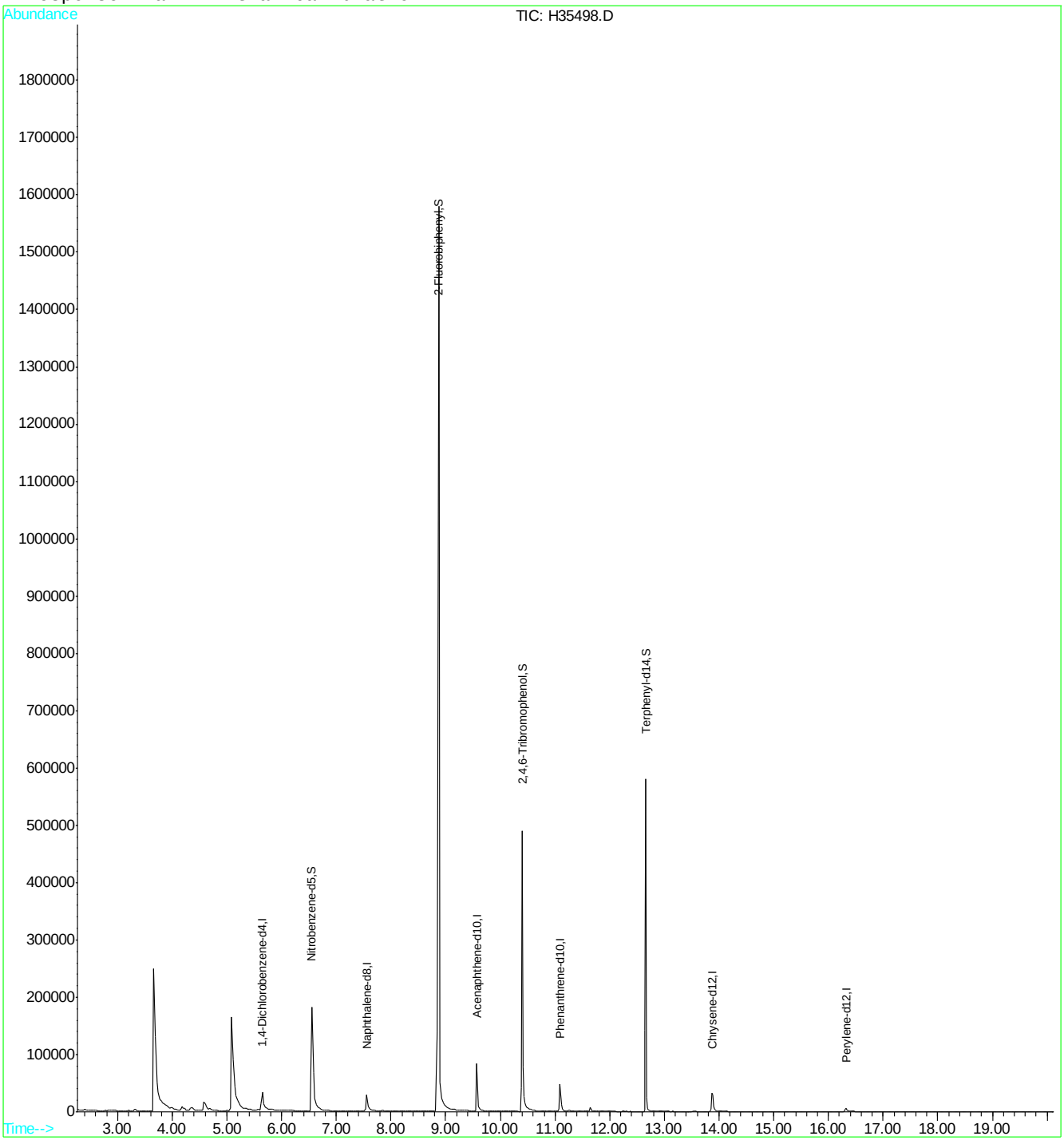
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H35498.D H10209SP.M Fri Oct 23 19:10:35 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35498.D Vial: 16
Acq On : 20 Oct 2009 5:17 pm Operator: sheilac
Sample : t39169-4 Inst : TXMSH
Misc : OP13269,EH1917,985,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 18:42 2009 Quant Results File: H10209SP.RES

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35499.D Vial: 17
Acq On : 20 Oct 2009 5:48 pm Operator: sheilac
Sample : t39169-5 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 18:42 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 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	74167	4.00 ppb	0.00
4) Naphthalene-d8	7.56	136	66862	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	57524	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	71024	4.00 ppb	0.00
21) Chrysene-d12	13.88	240	50466	4.00 ppb	0.02
26) Perylene-d12	16.33	264	13737	4.00 ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	193186	35.62 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	= 712.40%#	
10) 2-Fluorobiphenyl	8.87	172	2030978	58.48 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	= 1169.60%#	
16) 2,4,6-Tribromophenol	10.40	330	348511	94.65 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	= 946.50%#	
23) Terphenyl-d14	12.66	244	483019	56.40 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	= 1128.00%#	

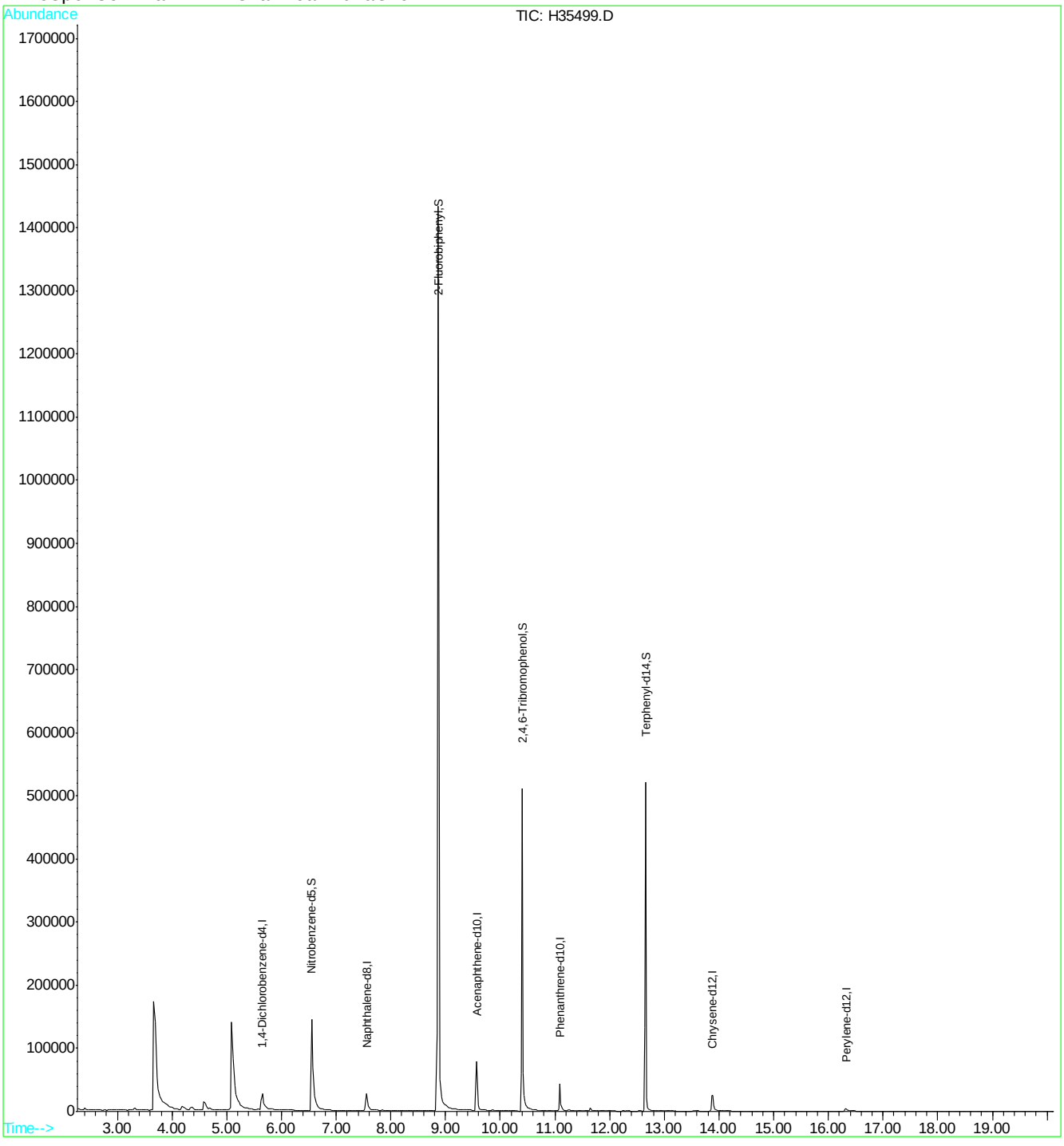
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H35499.D H10209SP.M Tue Oct 20 18:42:30 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35499.D Vial: 17
Acq On : 20 Oct 2009 5:48 pm Operator: sheilac
Sample : t39169-5 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 18:42 2009 Quant Results File: H10209SP.RES

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35500.D Vial: 18
Acq On : 20 Oct 2009 6:17 pm Operator: sheilac
Sample : t39169-6 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 18:43 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 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	73960	4.00 ppb	0.00
4) Naphthalene-d8	7.56	136	67000	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	58445	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	70462	4.00 ppb	0.00
21) Chrysene-d12	13.88	240	52479	4.00 ppb	0.02
26) Perylene-d12	16.33	264	14088	4.00 ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	212034	39.01 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 780.20%#		
10) 2-Fluorobiphenyl	8.87	172	2408160	68.25 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 1365.00%#		
16) 2,4,6-Tribromophenol	10.40	330	375898	102.91 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1029.10%#		
23) Terphenyl-d14	12.66	244	491703	55.55 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1111.00%#		

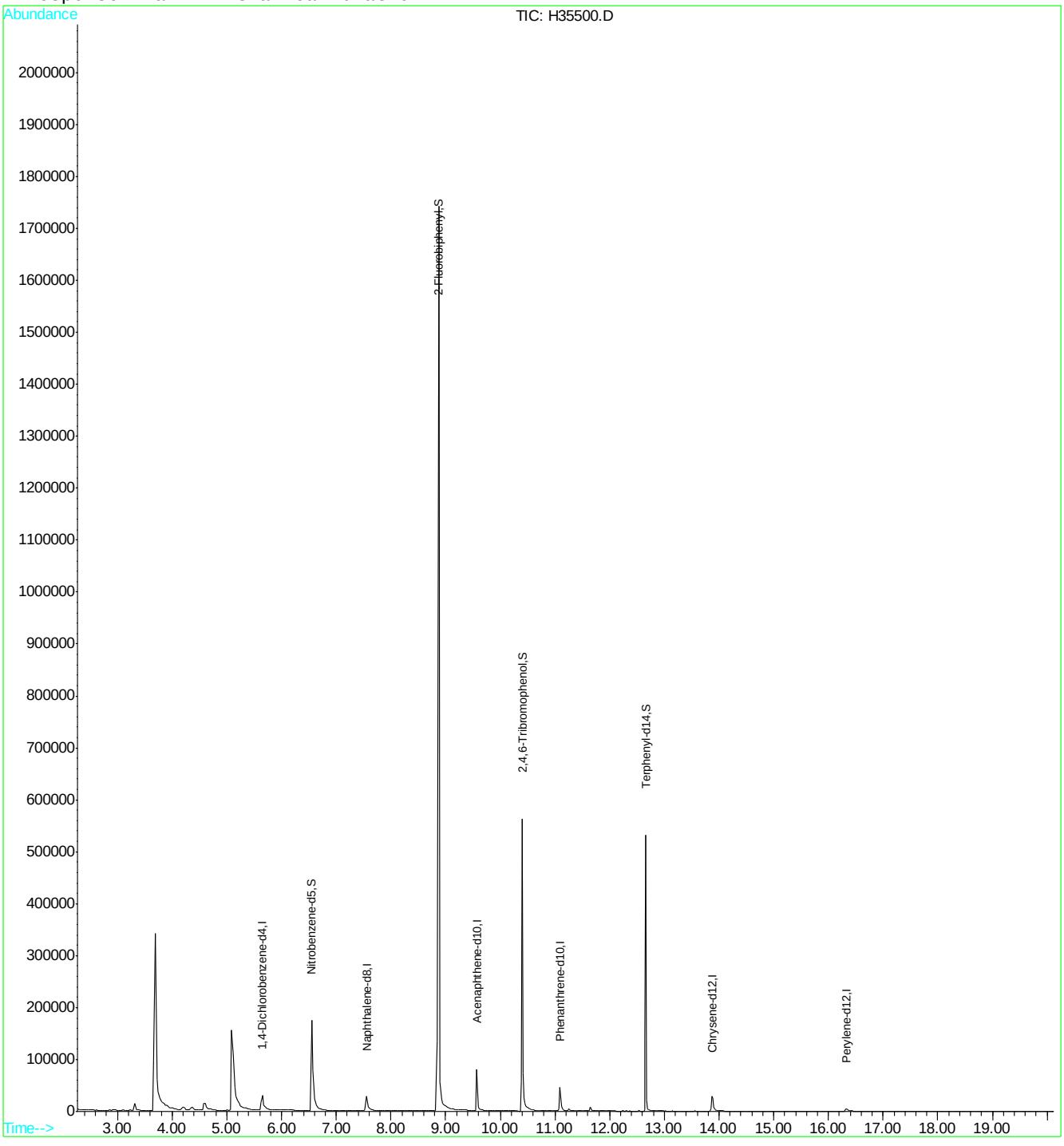
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H35500.D H10209SP.M Tue Oct 20 18:43:18 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35500.D Vial: 18
Acq On : 20 Oct 2009 6:17 pm Operator: sheilac
Sample : t39169-6 Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 18:43 2009 Quant Results File: H10209SP.RES

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13696.D
Acq On : 8 Oct 2009 2:56 pm
Operator : sheilac
Sample : op13205-mb
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 08 15:19:59 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	493054	40.00	ug/ml	0.00
20) Naphthalene-d8	5.940	136	1754463	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.411	164	949163	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.192	188	1413763	40.00	ug/ml	-0.01
71) Chrysene-d12	16.712	240	926329	40.00	ug/ml	-0.02
80) Perylene-d12	19.520	264	671900	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	997668	64.48	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 64.48%			
5) Phenol-d5 (SURR)	4.501	99	900928	46.59	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 46.59%			
21) Nitrobenzene-d5 (SURR)	5.218	82	792907	43.10	ug/ml	-0.08
Spiked Amount 50.000	Range 29 - 115		Recovery = 86.20%			
40) 2-Fluorobiphenyl (SURR)	7.341	172	1477394	38.40	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 76.80%			
62) 2,4,6-Tribromophenol (...	9.855	330	394355	82.90	ug/ml	-0.11
Spiked Amount 100.000	Range 32 - 128		Recovery = 82.90%			
74) Terphenyl-d14	14.567	244	1137383	51.42	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 102.84%			

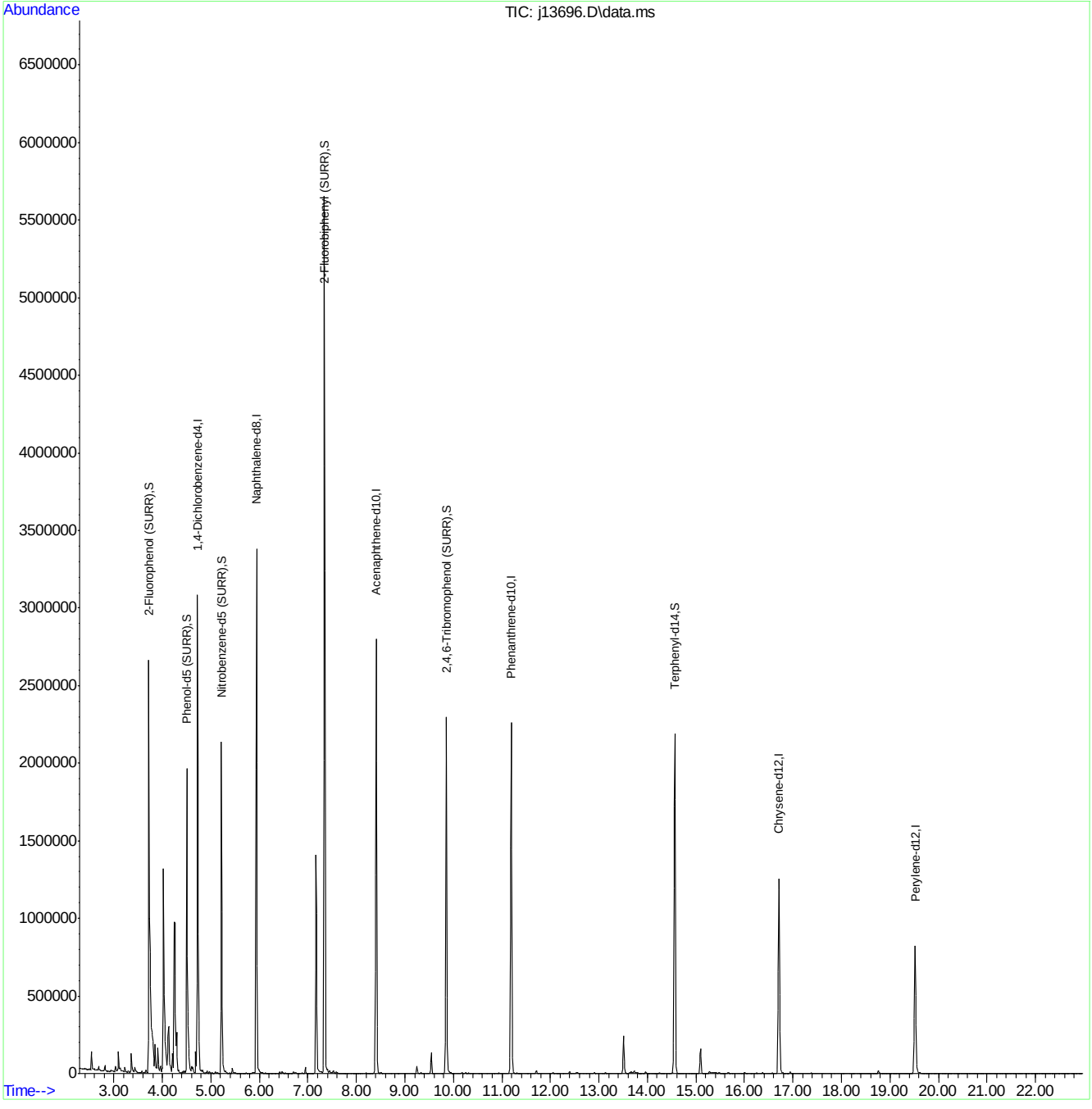
Target Compounds Qvalue

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

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13696.D
Acq On : 8 Oct 2009 2:56 pm
Operator : sheilac
Sample : op13205-mb
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 08 15:19:59 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13696.D
Acq On : 8 Oct 2009 2:56 pm
Operator : sheilac
Sample : op13205-mb
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 20000 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: j13696.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.538	44	47	52	rBV	116024	106655	1.45%	0.210%
2	3.095	147	151	154	rBV	126199	116669	1.58%	0.229%
3	3.362	197	201	209	rBV	124514	127371	1.73%	0.250%
4	3.720	265	268	271	rBV	2652075	2685951	36.44%	5.279%
5	3.849	289	292	297	rVB	158667	135052	1.83%	0.265%
6	3.908	300	303	309	rVB	146901	131306	1.78%	0.258%
7	4.020	321	324	327	rBV	1283518	1251076	16.97%	2.459%
8	4.041	327	328	338	rVV2	473194	625160	8.48%	1.229%
9	4.127	338	344	356	rVB2	289950	593595	8.05%	1.167%
10	4.207	356	359	362	rBV	114363	115315	1.56%	0.227%
11	4.239	362	365	366	rVV	953281	748148	10.15%	1.470%
12	4.255	366	368	373	rVV	947623	1033751	14.03%	2.032%
13	4.293	373	375	381	rVB	246977	244002	3.31%	0.480%
14	4.501	410	414	429	rBV	1963583	2811895	38.15%	5.526%
15	4.688	446	449	452	rBV	135947	138423	1.88%	0.272%
16	4.726	452	456	468	rVB	3074294	3307434	44.88%	6.500%
17	5.218	543	548	561	rBV	2136339	2504195	33.98%	4.922%
18	5.940	677	683	692	rBV	3378555	4050461	54.96%	7.961%
19	7.170	907	913	933	rBV	1407998	1777568	24.12%	3.494%
20	7.341	938	945	954	rBV	5646997	7370184	100.00%	14.485%
21	8.411	1135	1145	1159	rBV	2798565	4259673	57.80%	8.372%
22	9.545	1351	1357	1363	rBB	133874	161156	2.19%	0.317%
23	9.855	1407	1415	1432	rBV	2297147	3707560	50.30%	7.287%
24	11.192	1655	1665	1680	rBV2	2263094	3966023	53.81%	7.795%
25	13.508	2092	2098	2111	rBB2	242480	399572	5.42%	0.785%
26	14.567	2282	2296	2316	rBV	2190102	3911058	53.07%	7.687%
27	15.092	2388	2394	2402	rBV	160393	251364	3.41%	0.494%
28	16.712	2685	2697	2711	rBV	1258013	2541168	34.48%	4.994%
29	19.520	3212	3222	3247	rBV	823324	1808895	24.54%	3.555%

Sum of corrected areas: 50880680

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13696.D
Acq On    :  8 Oct 2009   2:56 pm
Operator  : sheilac
Sample    : op13205-mb
Misc      : op13205,Ej629,1000,,,1,1,water
ALS Vial  : 10   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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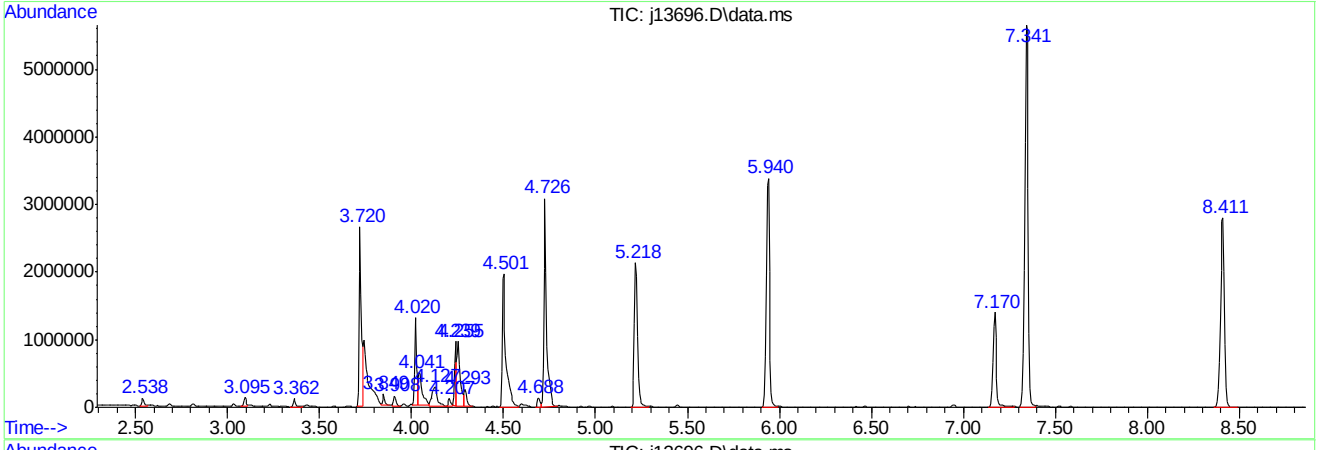
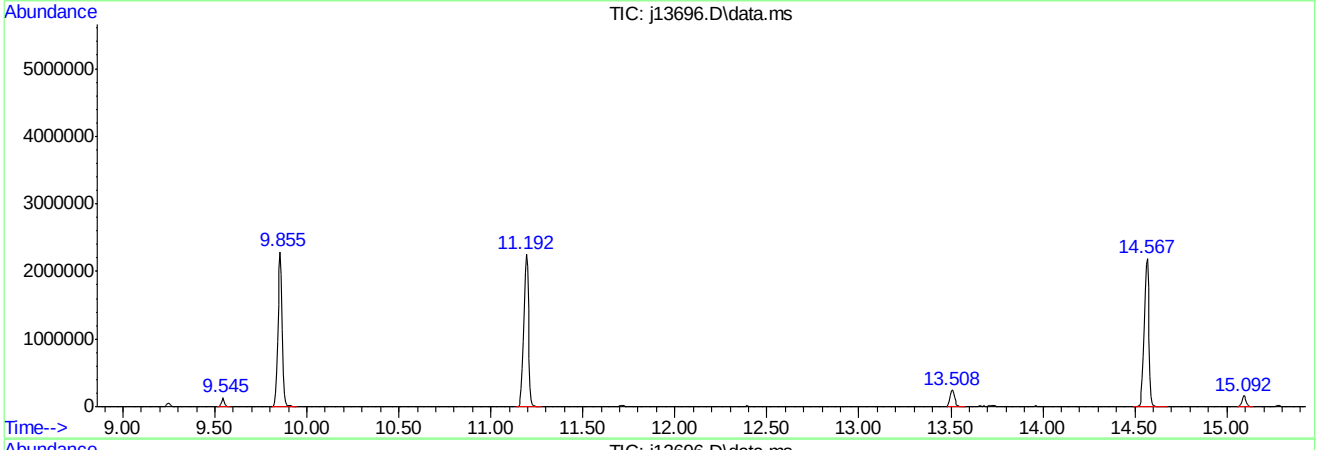
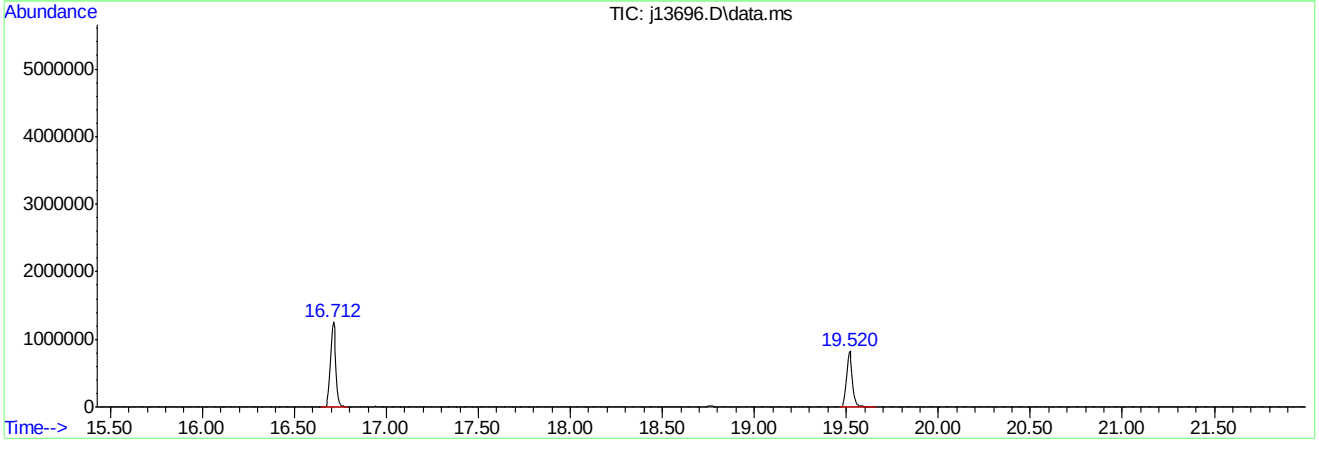






Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13696.D
Acq On : 8 Oct 2009 2:56 pm
Operator : sheilac
Sample : op13205-mb
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

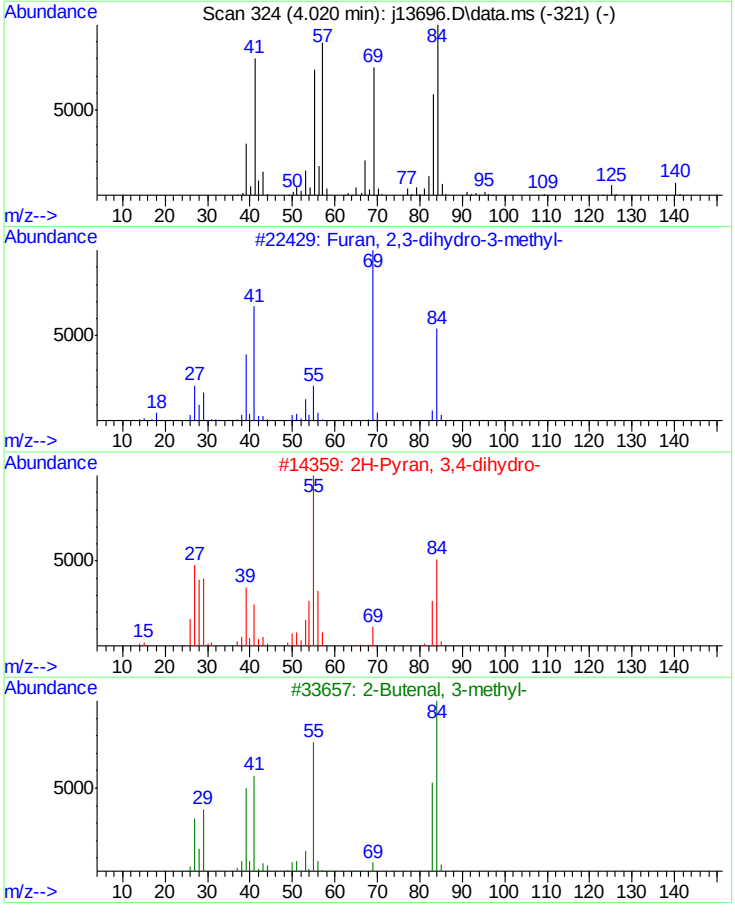
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

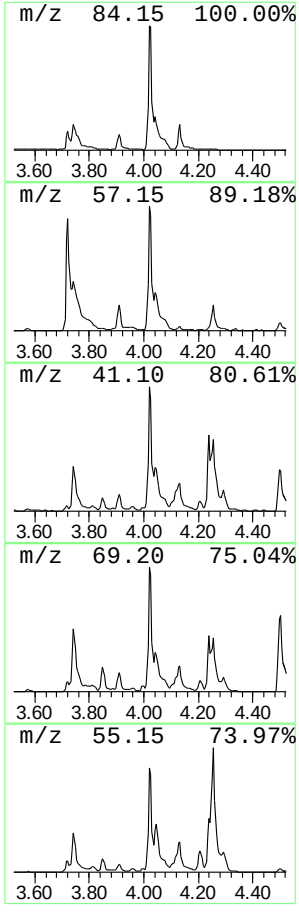
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Furan, 2,3-dihydro-3-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.020	15.13 ug/ml	1251080	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Furan, 2,3-dihydro-3-methyl-	84	C5H8O	001708-27-6	49
2	2H-Pyran, 3,4-dihydro-	84	C5H8O	000110-87-2	43
3	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	43
4	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	38
5	Furan, 2,3-dihydro-4-methyl-	84	C5H8O	034314-83-5	38





Library Search Compound Report

```
Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13696.D
Acq On    :  8 Oct 2009   2:56 pm
Operator  : sheilac
Sample    : op13205-mb
Misc      : op13205,Ej629,1000,,,1,1,water
ALS Vial  : 10   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

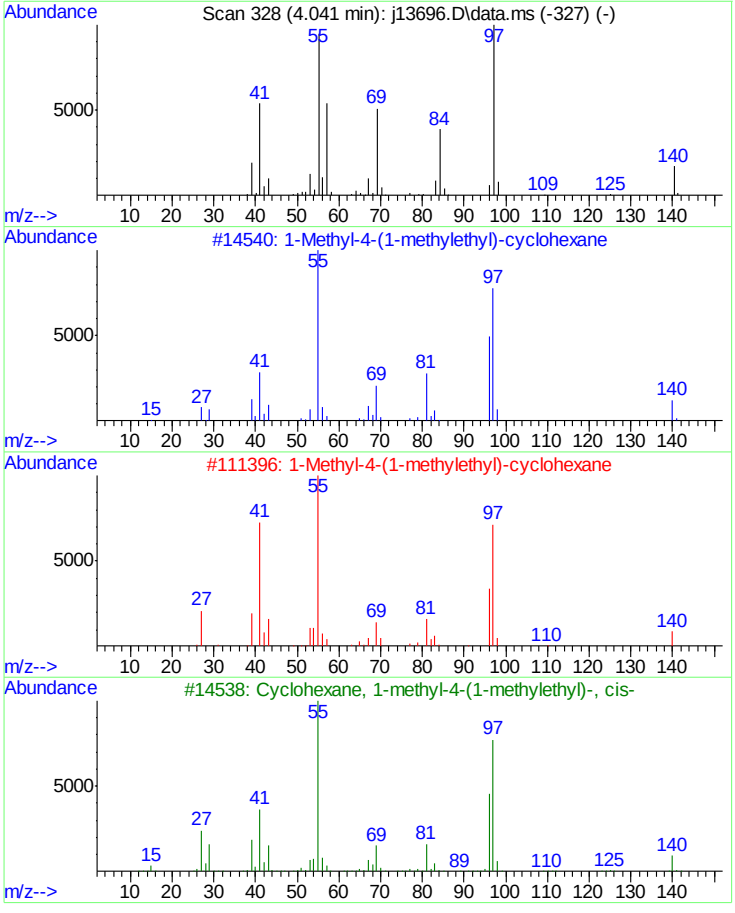
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

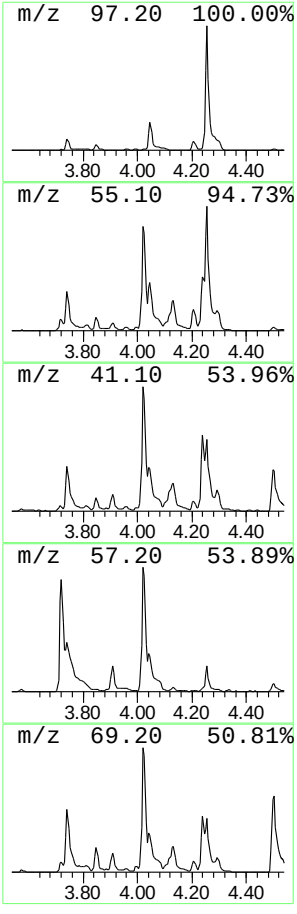
****

Peak Number 2 1-Methyl-4-(1-methylethyl)-... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.041	7.56 ug/ml	625160	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methyl-4-(1-methylethyl)-cyclo...	140	C10H20	000099-82-1	58
2	1-Methyl-4-(1-methylethyl)-cyclo...	140	C10H20	000099-82-1	58
3	Cyclohexane, 1-methyl-4-(1-methy...	140	C10H20	006069-98-3	58
4	Cyclohexane, 1-bromo-2-methyl-	176	C7H13Br	006294-39-9	50
5	Cyclohexane, 1-ethyl-4-methyl-, ...	126	C9H18	004926-78-7	50





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13696.D
Acq On : 8 Oct 2009 2:56 pm
Operator : sheilac
Sample : op13205-mb
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

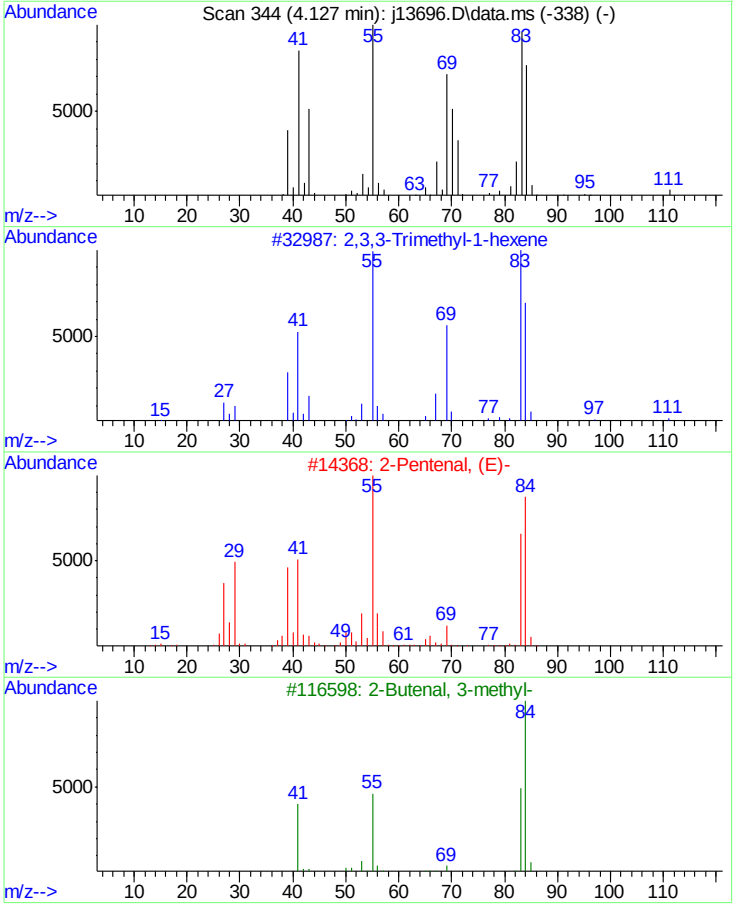
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

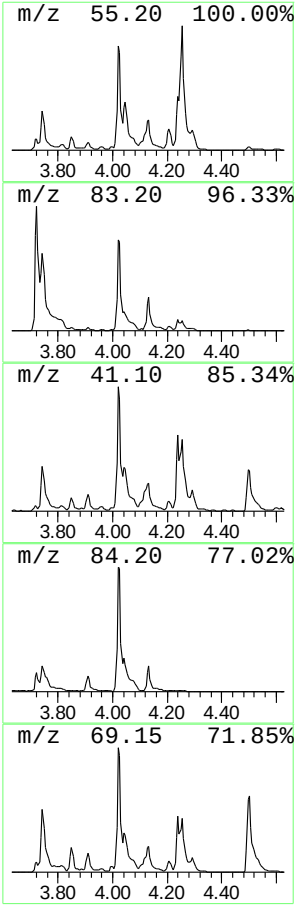
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 2,3,3-Trimethyl-1-hexene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.127	7.18 ug/ml	593595	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3,3-Trimethyl-1-hexene	126	C9H18	1000113-52-1	52
2	2-Pentenal, (E)-	84	C5H8O	001576-87-0	46
3	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	38
4	2-Butenal, 2-methyl-	84	C5H8O	001115-11-3	35
5	Furan, 2,3-dihydro-3-methyl-	84	C5H8O	001708-27-6	27





ACCUTEST Laboratories

Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13696.D
Acq On : 8 Oct 2009 2:56 pm
Operator : sheilac
Sample : op13205-mb
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

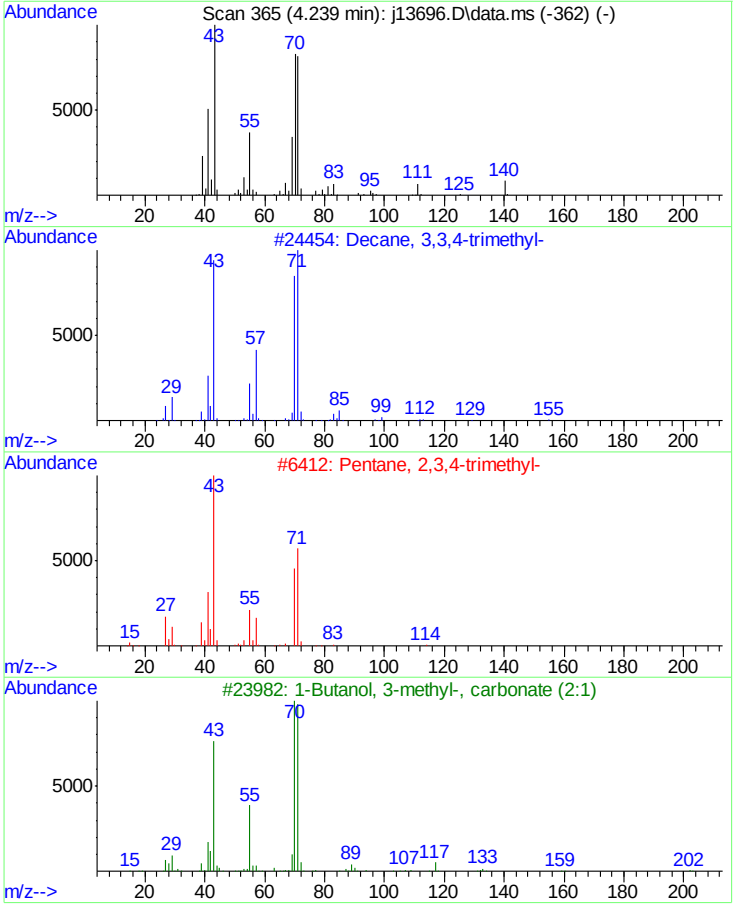
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

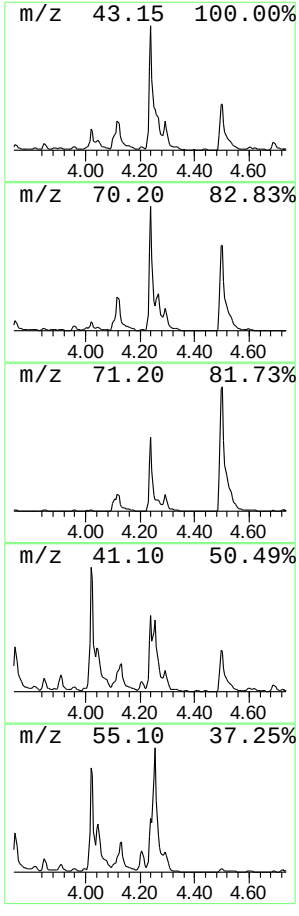
****

Peak Number 4 Decane, 3,3,4-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.239	9.05 ug/ml	748148	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	78
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
3	1-Butanol, 3-methyl-, carbonate ...	202	C11H22O3	002050-95-5	72
4	Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	72
5	Propanoic acid, 2-methyl-, 3-met...	158	C9H18O2	002050-01-3	56





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13696.D
Acq On : 8 Oct 2009 2:56 pm
Operator : sheilac
Sample : op13205-mb
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

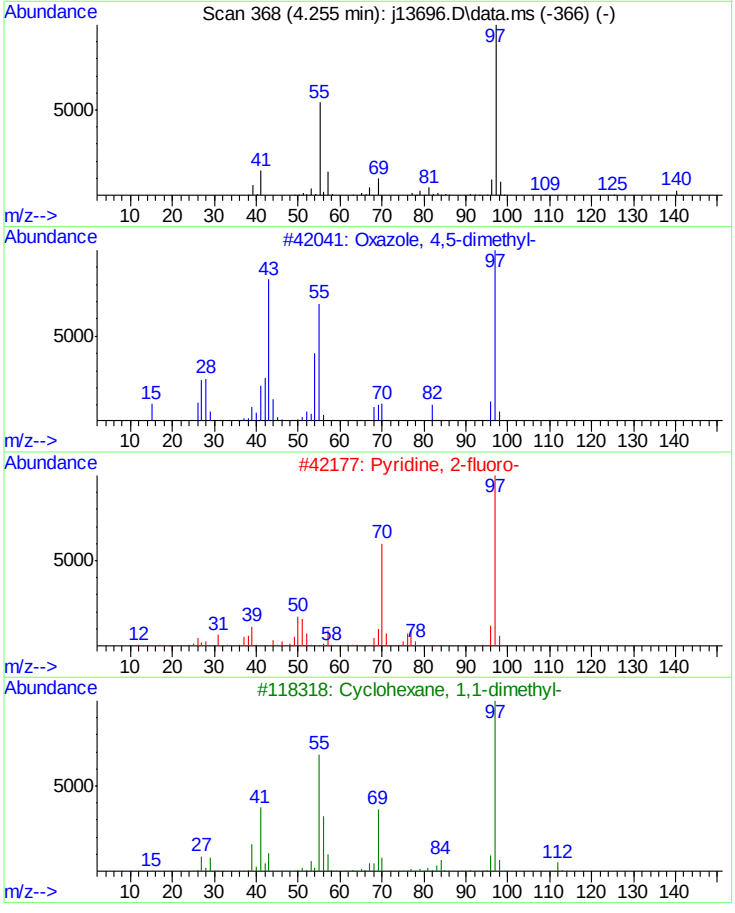
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

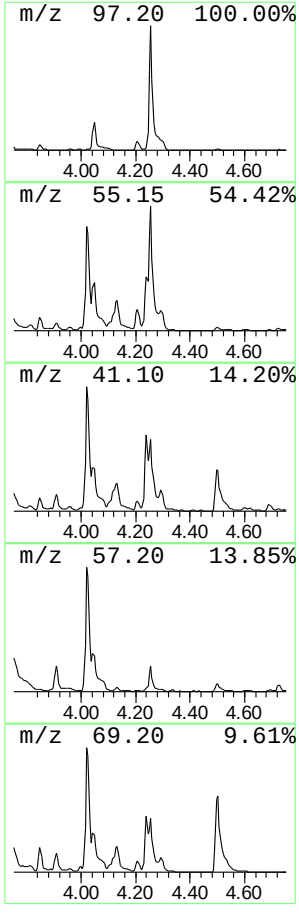
****

Peak Number 5 Oxazole, 4,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.255	12.50 ug/ml	1033750	1,4-Dichlorobenzene-d4	4.726

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Oxazole, 4,5-dimethyl-	97	C5H7NO	020662-83-3	64
2	Pyridine, 2-fluoro-	97	C5H4FN	000372-48-5	64
3	Cyclohexane, 1,1-dimethyl-	112	C8H16	000590-66-9	56
4	Cyclopentane, 1-hydroxymethyl-1,...	128	C8H16O	1000156-73-8	50
5	Pyridine, 2-fluoro-	97	C5H4FN	000372-48-5	50





Library Search Compound Report

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Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13696.D
Acq On    :  8 Oct 2009   2:56 pm
Operator  : sheilac
Sample    : op13205-mb
Misc      : op13205,Ej629,1000,,,1,1,water
ALS Vial  : 10   Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :

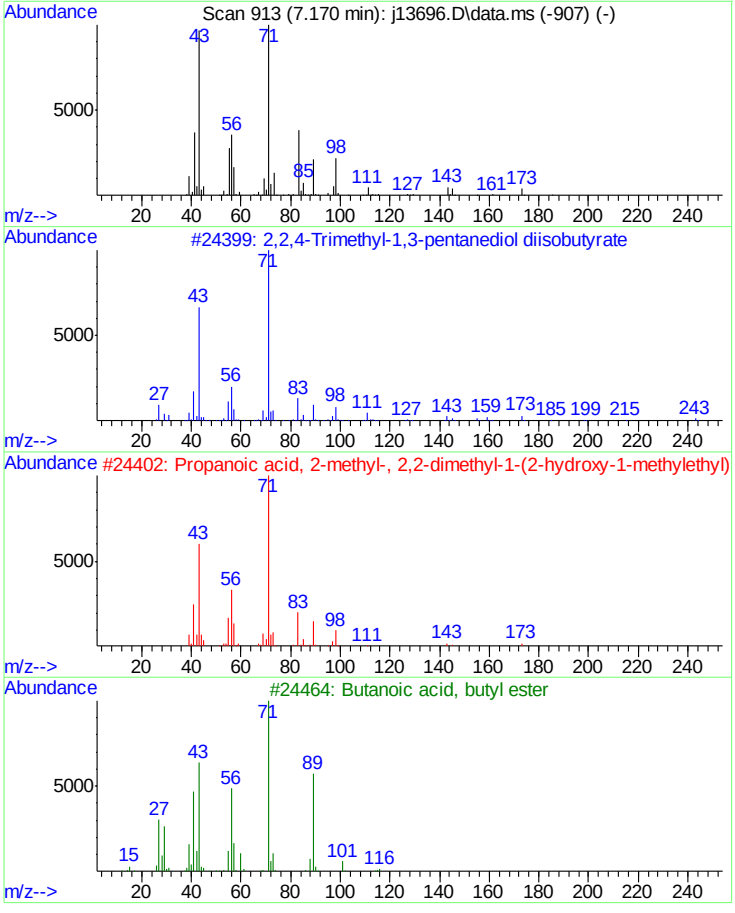
TIC Library    : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P
```

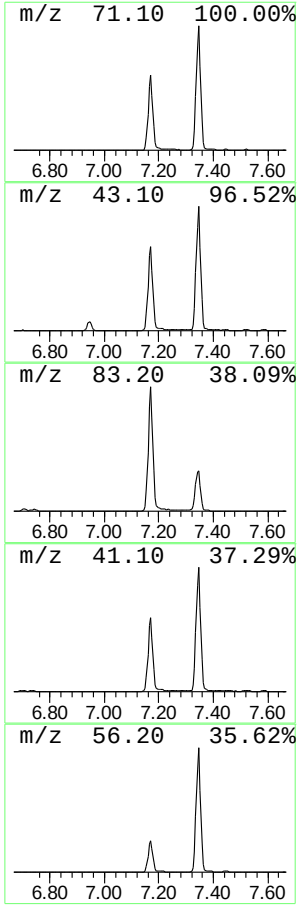
****

Peak Number 6 2,2,4-Trimethyl-1,3-pentane... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.170	17.55 ug/ml	1777570	Naphthalene-d8	5.940

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,2,4-Trimethyl-1,3-pentanediol ...	286	C16H30O4	006846-50-0	50
2	Propanoic acid, 2-methyl-, 2,2-d...	216	C12H24O3	074367-33-2	50
3	Butanoic acid, butyl ester	144	C8H16O2	000109-21-7	47
4	1-Hexene, 3,4,5-trimethyl-	126	C9H18	056728-10-0	43
5	Butane, 2,2-dimethyl-	86	C6H14	000075-83-2	35





Library Search Compound Report

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13696.D
Acq On : 8 Oct 2009 2:56 pm
Operator : sheilac
Sample : op13205-mb
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 10 Sample Multiplier: 1

Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :

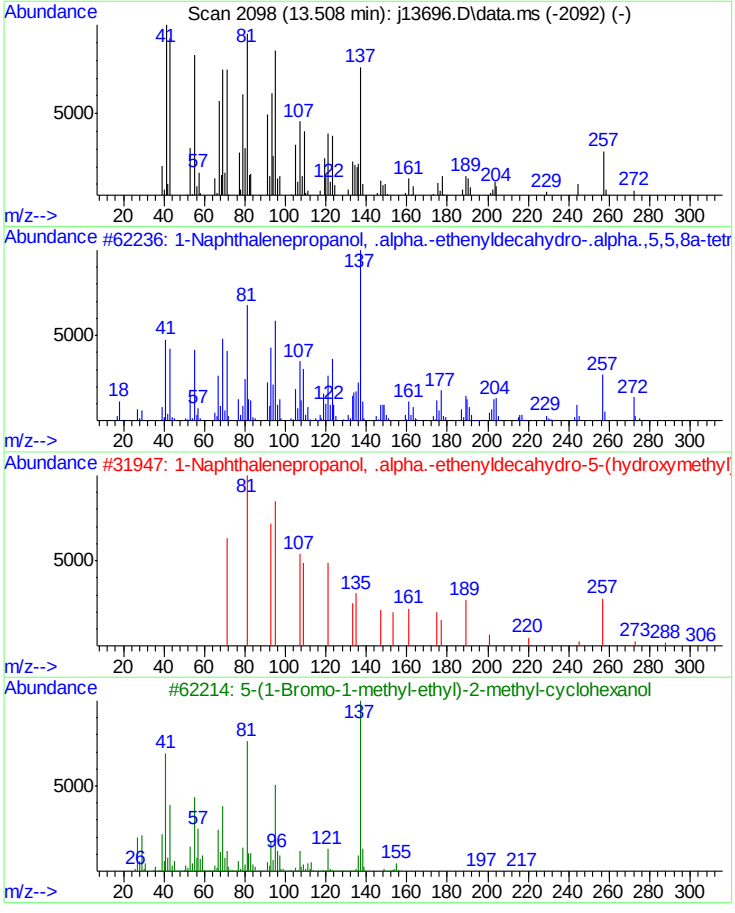
TIC Library : C:\Database\NIST98.L
TIC Integration Parameters: LSCINT.P

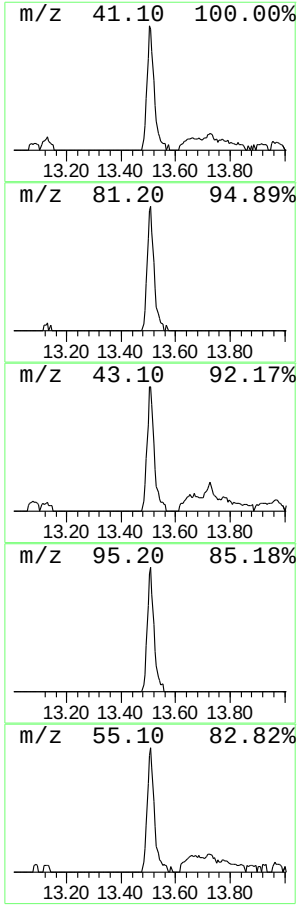
****

Peak Number 7 1-Naphthalenepropanol, .alp... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.508	4.03 ug/ml	399572	Phenanthrene-d10	11.192

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Naphthalenepropanol, .alpha.-e...	290	C20H34O	001438-62-6	70
2	1-Naphthalenepropanol, .alpha.-e...	306	C20H34O2	003650-30-4	64
3	5-(1-Bromo-1-methyl-ethyl)-2-met...	234	C10H19BrO	1000188-65-7	38
4	cis, cis-3-Ethylbicyclo[4.4.0]de...	166	C12H22	066660-42-2	38
5	Naphthalene, 2-butyldecahydro-	194	C14H26	006305-52-8	35





Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13696.D
Acq On : 8 Oct 2009 2:56 pm
Operator : sheilac
Sample : op13205-mb
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 10 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
Furan, 2,3-dihy...	4.020	15.1	ug/ml	1251080	1	4.726	3307430	40.0
1-Methyl-4-(1-m...	4.041	7.6	ug/ml	625160	1	4.726	3307430	40.0
2,3,3-Trimethyl...	4.127	7.2	ug/ml	593595	1	4.726	3307430	40.0
Decane, 3,3,4-t...	4.239	9.1	ug/ml	748148	1	4.726	3307430	40.0
Oxazole, 4,5-di...	4.255	12.5	ug/ml	1033750	1	4.726	3307430	40.0
2,2,4-Trimethyl...	7.170	17.6	ug/ml	1777570	2	5.940	4050460	40.0
1-Naphthalenepr...	13.508	4.0	ug/ml	399572	4	11.192	3966020	40.0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35492.D Vial: 10
Acq On : 20 Oct 2009 2:31 pm Operator: sheilac
Sample : op13269-mb Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:50 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:49:56 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	68270	4.00 ppb	0.00
4) Naphthalene-d8	7.56	136	55893	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	51852	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	64250	4.00 ppb	0.00
21) Chrysene-d12	13.87	240	56411	4.00 ppb	0.00
26) Perylene-d12	16.31	264	16361	4.00 ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	223218	49.23 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 984.60%#		
10) 2-Fluorobiphenyl	8.87	172	2092730	66.85 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 1337.00%#		
16) 2,4,6-Tribromophenol	10.40	330	377626	113.37 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 1133.70%#		
23) Terphenyl-d14	12.66	244	482194	68.05 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery = 1361.00%#		

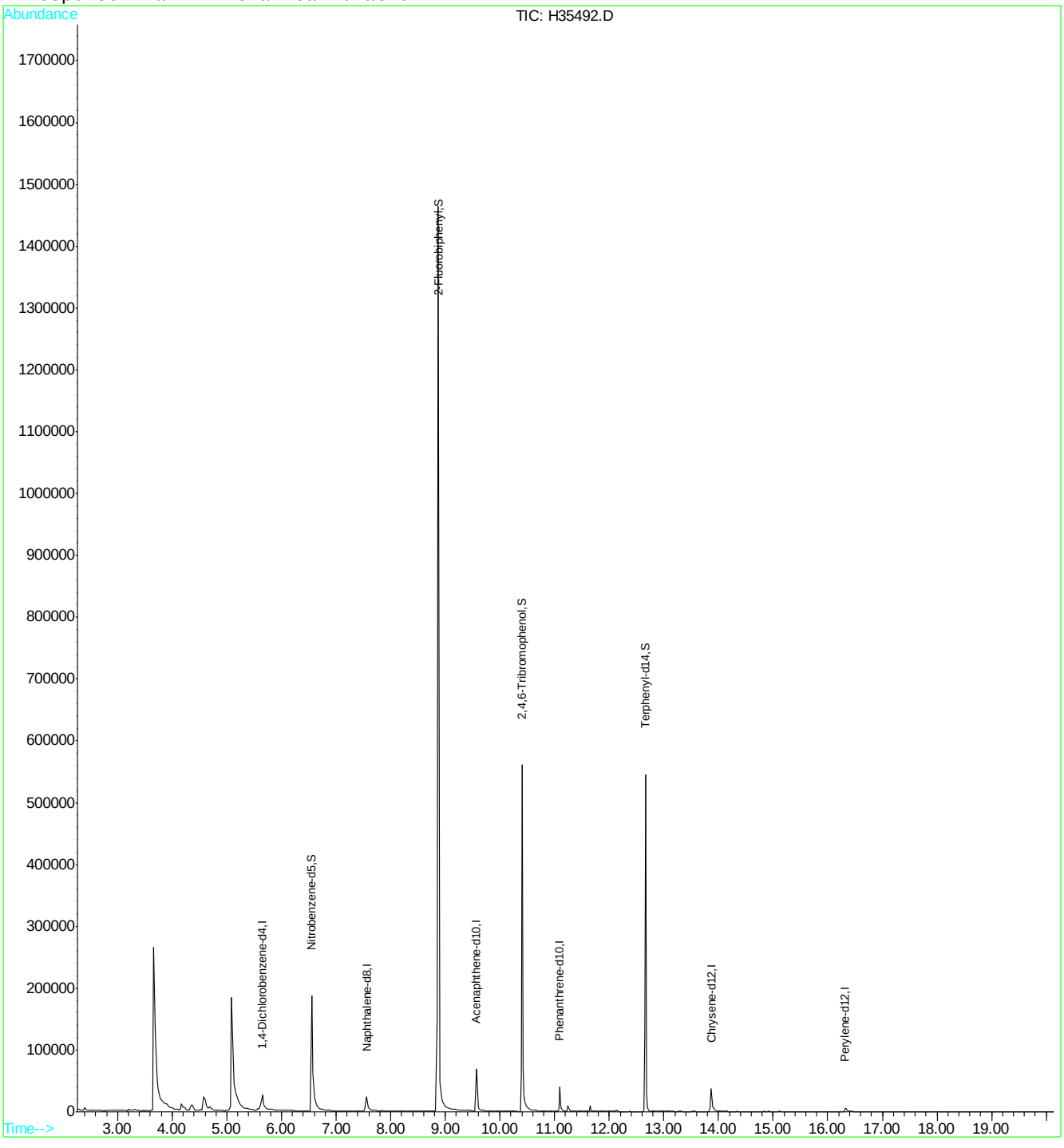
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
H35492.D H10209SP.M Tue Oct 20 14:50:56 2009 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35492.D Vial: 10
Acq On : 20 Oct 2009 2:31 pm Operator: sheilac
Sample : op13269-mb Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:50 2009 Quant Results File: H10209SP.RES

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:49:56 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13700.D
Acq On : 8 Oct 2009 5:27 pm
Operator : sheilac
Sample : op13205-bs,(8270)
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 08 17:49:57 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.731	152	454964	40.00	ug/ml	0.00
20) Naphthalene-d8	5.945	136	1740342	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.422	164	877510	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.203	188	1302550	40.00	ug/ml	0.00
71) Chrysene-d12	16.734	240	1105612	40.00	ug/ml	0.00
80) Perylene-d12	19.531	264	676957	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.731	112	640123	44.83	ug/ml	0.06
Spiked Amount 100.000	Range 10 - 66		Recovery = 44.83%			
5) Phenol-d5 (SURR)	4.507	99	540337	30.28	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 30.28%			
21) Nitrobenzene-d5 (SURR)	5.229	82	665679	36.47	ug/ml	-0.07
Spiked Amount 50.000	Range 29 - 115		Recovery = 72.94%			
40) 2-Fluorobiphenyl (SURR)	7.347	172	1331188	37.44	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 74.88%			
62) 2,4,6-Tribromophenol (...	9.871	330	385776	88.02	ug/ml	-0.09
Spiked Amount 100.000	Range 32 - 128		Recovery = 88.02%			
74) Terphenyl-d14	14.573	244	1176559	44.57	ug/ml	-0.02
Spiked Amount 50.000	Range 12 - 145		Recovery = 89.14%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.474	74	170789	22.33	ug/ml	92
3) Pyridine	2.469	79	93319	6.92	ug/ml	98
6) Phenol	4.517	94	309707	16.04	ug/ml#	83
7) Aniline	4.480	93	408919	19.49	ug/ml	97
8) bis(2-Chloroethyl)ether	4.523	93	600391	31.72	ug/ml	98
9) 2-Chlorophenol	4.587	128	528596	35.29	ug/ml	99
10) 1,3-Dichlorobenzene	4.683	146	463082	27.29	ug/ml	99
11) 1,4-Dichlorobenzene	4.742	146	496915	27.30	ug/ml	98
12) Benzyl Alcohol	4.876	108	291168	27.90	ug/ml	97
13) 1,2-Dichlorobenzene	4.876	146	479471	28.08	ug/ml	99
14) 2-Methylphenol	4.999	108	401579	29.66	ug/ml	99
15) bis(2-chloroisopropyl)...	4.972	45	817836	34.11	ug/ml	98
16) 4-Methylphenol	5.138	108	799110	55.80	ug/ml	99
17) m+p-Cresols	5.138	108	799110	55.80	ug/ml	99
18) n-Nitroso-di-n-propyla...	5.106	70	489662	37.70	ug/ml	100
19) Hexachloroethane	5.170	117	176371	26.55	ug/ml	100
22) Nitrobenzene	5.245	77	642157	35.82	ug/ml	99
23) Isophorone	5.475	82	1164876	35.39	ug/ml	99
24) 2-Nitrophenol	5.550	139	279911	33.96	ug/ml	96
25) 2,4-Dimethylphenol	5.619	122	365950	26.85	ug/ml	98
26) bis(2-Chloroethoxy)met...	5.683	93	625706	34.50	ug/ml	99
27) Benzoic Acid	5.780	105	126529	18.69	ug/ml	93
28) 2,4-Dichlorophenol	5.828	162	406324	33.89	ug/ml	100
29) 1,2,4-Trichlorobenzene	5.881	180	376910	26.13	ug/ml	100
30) Naphthalene	5.967	128	1420156	29.96	ug/ml	98
31) 4-Chloroaniline	6.036	127	434718	26.52	ug/ml	99
32) Hexachlorobutadiene	6.111	225	228936	25.28	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13700.D
Acq On : 8 Oct 2009 5:27 pm
Operator : sheilac
Sample : op13205-bs,(8270)
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 08 17:49:57 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

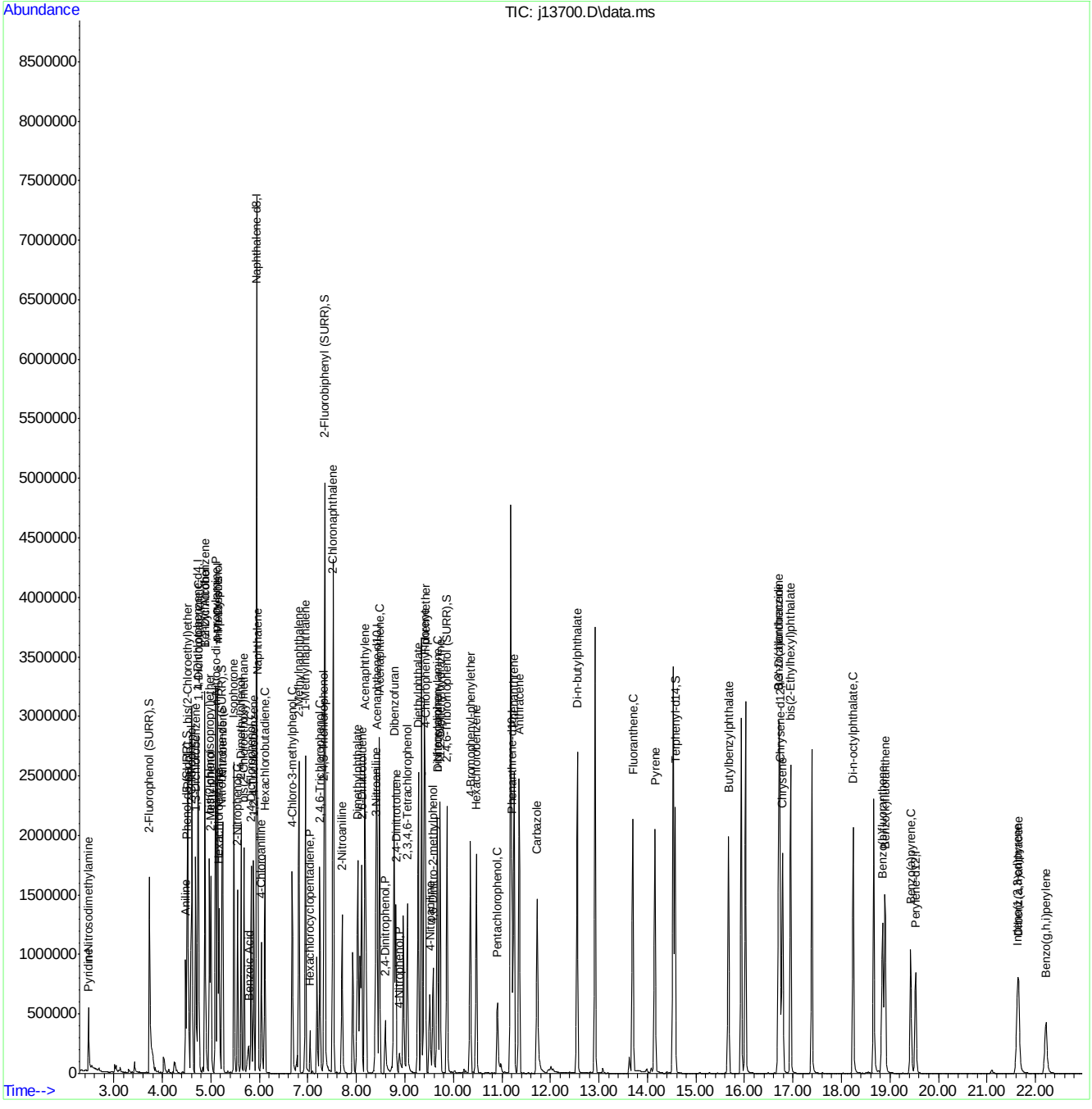
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.673	107	484389	35.77	ug/ml	99
34) 2-Methylnaphthalene	6.817	142	942899	32.56	ug/ml	99
35) 1-Methylnaphthalene	6.951	142	934165	30.80	ug/ml	99
37) Hexachlorocyclopentadiene	7.047	237	62648	21.66	ug/ml	97
38) 2,4,6-Trichlorophenol	7.245	196	297540	40.63	ug/ml	100
39) 2,4,5-Trichlorophenol	7.331	196	328266	38.34	ug/ml	100
41) 2-Chloronaphthalene	7.518	162	928725	37.88	ug/ml	97
42) 2-Nitroaniline	7.705	65	379391	46.02	ug/ml	98
43) Dimethylphthalate	8.031	163	1319119	44.76	ug/ml	100
44) Acenaphthylene	8.176	152	1653394	39.79	ug/ml	100
45) 2,6-Dinitrotoluene	8.112	165	298350	43.03	ug/ml#	81
46) 3-Nitroaniline	8.400	138	257137	40.27	ug/ml	96
47) Acenaphthene	8.475	154	959210	39.29	ug/ml	100
48) 2,4-Dinitrophenol	8.593	184	110821	49.49	ug/ml	95
49) 4-Nitrophenol	8.882	65	65680	18.42	ug/ml#	85
50) Dibenzofuran	8.780	168	1444280	41.41	ug/ml	99
51) 2,4-Dinitrotoluene	8.818	165	390025	46.97	ug/ml	88
52) 2,3,4,6-Tetrachlorophenol	9.048	232	268977	41.68	ug/ml	99
53) Diethylphthalate	9.278	149	1447244	47.34	ug/ml	99
54) Fluorene	9.401	166	1256513	41.34	ug/ml	99
55) 4-Chlorophenyl-phenyle...	9.422	204	603678	39.01	ug/ml	98
56) 4-Nitroaniline	9.513	138	214467	43.21	ug/ml	93
58) 1,2-Diphenylhydrazine	9.727	77	1410875	42.59	ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.582	198	188055	45.09	ug/ml	98
60) Diphenylamine	9.668	169	896251	36.77	ug/ml	100
61) n-Nitrosodiphenylamine	9.668	169	896251	36.77	ug/ml	100
63) 4-Bromophenyl-phenylether	10.353	248	347872	42.31	ug/ml	98
64) Hexachlorobenzene	10.476	284	391143	43.66	ug/ml	97
65) Pentachlorophenol	10.904	266	138707	45.65	ug/ml	96
66) Phenanthrene	11.251	178	1672934	43.11	ug/ml	100
67) Anthracene	11.353	178	1657847	44.37	ug/ml	100
68) Carbazole	11.727	167	1337339	44.45	ug/ml	99
69) Di-n-butylphthalate	12.556	149	2188629	46.96	ug/ml	99
70) Fluoranthene	13.701	202	1697028	48.23	ug/ml	98
73) Pyrene	14.156	202	1641244	42.13	ug/ml	100
75) Butylbenzylphthalate	15.675	149	793587	45.74	ug/ml	100
76) Benzo(a)anthracene	16.712	228	1475320	47.43	ug/ml	100
77) 3,3'-Dichlorobenzidine	16.712	252	307868	40.39	ug/ml	98
78) Chrysene	16.787	228	1288075	49.13	ug/ml	100
79) bis(2-Ethylhexyl)phtha...	16.953	149	1078506	46.26	ug/ml	98
81) Di-n-octylphthalate	18.242	149	1580263	48.74	ug/ml#	97
82) Benzo(b)fluoranthene	18.846	252	1123016	50.20	ug/ml	99
83) Benzo(k)fluoranthene	18.900	252	1115634	54.60	ug/ml	100
84) Benzo(a)pyrene	19.429	252	853897	44.71	ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.628	276	804920	49.98	ug/ml	97
86) Dibenz(a,h)anthracene	21.654	278	672944	50.34	ug/ml	96
87) Benzo(g,h,i)perylene	22.216	276	610279	50.16	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 : j13700.D
Acq On : 8 Oct 2009 5:27 pm
Operator : sheilac
Sample : op13205-bs,(8270)
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 08 17:49:57 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13701.D
Acq On : 8 Oct 2009 5:59 pm
Operator : sheilac
Sample : op13205-bsd,(8270)
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 08 18:21:31 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.731	152	438473	40.00	ug/ml	0.00
20) Naphthalene-d8	5.945	136	1661982	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.416	164	824481	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.203	188	1191468	40.00	ug/ml	0.00
71) Chrysene-d12	16.728	240	852177	40.00	ug/ml	0.00
80) Perylene-d12	19.526	264	530098	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.731	112	618326	44.94	ug/ml	0.06
Spiked Amount 100.000	Range 10 - 66		Recovery = 44.94%			
5) Phenol-d5 (SURR)	4.507	99	520626	30.27	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 30.27%			
21) Nitrobenzene-d5 (SURR)	5.229	82	641671	36.82	ug/ml	-0.07
Spiked Amount 50.000	Range 29 - 115		Recovery = 73.64%			
40) 2-Fluorobiphenyl (SURR)	7.347	172	1266602	37.91	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 75.82%			
62) 2,4,6-Tribromophenol (...	9.871	330	361406	90.15	ug/ml	-0.09
Spiked Amount 100.000	Range 32 - 128		Recovery = 90.15%			
74) Terphenyl-d14	14.567	244	976641	48.00	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 96.00%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.474	74	152962	20.76	ug/ml	91
3) Pyridine	2.463	79	90907	6.99	ug/ml	100
6) Phenol	4.517	94	299242	16.08	ug/ml#	81
7) Aniline	4.480	93	394951	19.53	ug/ml	96
8) bis(2-Chloroethyl)ether	4.523	93	579029	31.74	ug/ml	98
9) 2-Chlorophenol	4.587	128	511811	35.45	ug/ml	99
10) 1,3-Dichlorobenzene	4.683	146	450251	27.53	ug/ml	98
11) 1,4-Dichlorobenzene	4.742	146	478507	27.27	ug/ml	99
12) Benzyl Alcohol	4.876	108	282862	28.12	ug/ml	97
13) 1,2-Dichlorobenzene	4.876	146	462375	28.09	ug/ml	99
14) 2-Methylphenol	4.999	108	387113	29.67	ug/ml	99
15) bis(2-chloroisopropyl)...	4.972	45	781431	33.82	ug/ml	98
16) 4-Methylphenol	5.138	108	774008	56.08	ug/ml	98
17) m+p-Cresols	5.138	108	774008	56.08	ug/ml	98
18) n-Nitroso-di-n-propyla...	5.100	70	468042	37.39	ug/ml	100
19) Hexachloroethane	5.170	117	170424	26.62	ug/ml	100
22) Nitrobenzene	5.245	77	619976	36.22	ug/ml	99
23) Isophorone	5.475	82	1110751	35.34	ug/ml	100
24) 2-Nitrophenol	5.550	139	276977	35.19	ug/ml	98
25) 2,4-Dimethylphenol	5.619	122	348891	26.81	ug/ml	97
26) bis(2-Chloroethoxy)met...	5.683	93	602476	34.78	ug/ml	100
27) Benzoic Acid	5.774	105	124030	19.19	ug/ml	95
28) 2,4-Dichlorophenol	5.828	162	394395	34.45	ug/ml	98
29) 1,2,4-Trichlorobenzene	5.881	180	363215	26.37	ug/ml	99
30) Naphthalene	5.967	128	1368818	30.24	ug/ml	98
31) 4-Chloroaniline	6.036	127	420450	26.82	ug/ml	99
32) Hexachlorobutadiene	6.111	225	221256	25.58	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej629\
Data File : j13701.D
Acq On : 8 Oct 2009 5:59 pm
Operator : sheilac
Sample : op13205-bsd,(8270)
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 08 18:21:31 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

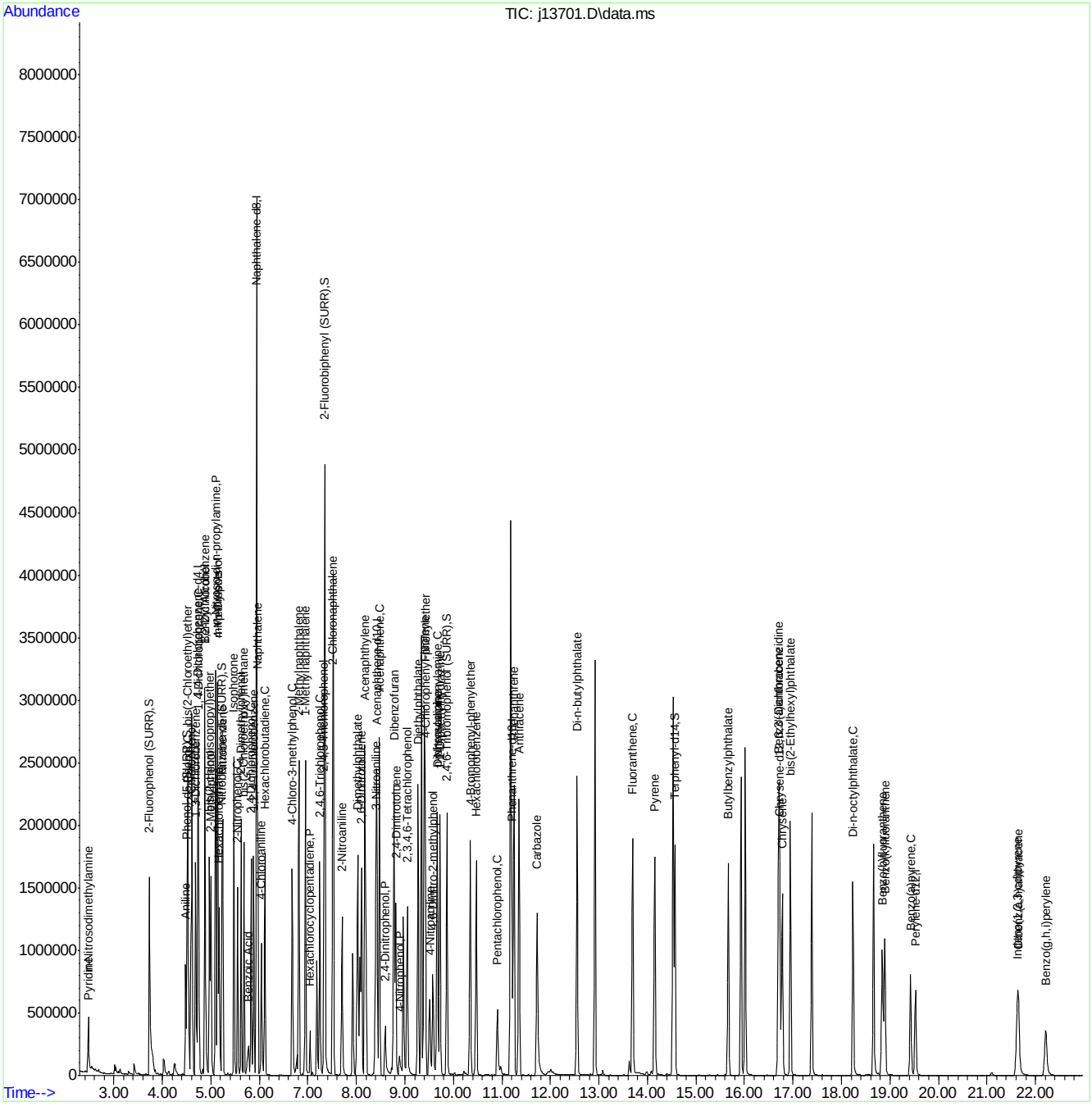
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.673	107	462854	35.80	ug/ml	99
34) 2-Methylnaphthalene	6.812	142	902718	32.64	ug/ml	100
35) 1-Methylnaphthalene	6.951	142	891752	30.79	ug/ml	99
37) Hexachlorocyclopentadiene	7.047	237	64092	23.01	ug/ml	95
38) 2,4,6-Trichlorophenol	7.245	196	282477	41.06	ug/ml	99
39) 2,4,5-Trichlorophenol	7.331	196	311917	38.73	ug/ml	97
41) 2-Chloronaphthalene	7.513	162	885741	38.45	ug/ml	98
42) 2-Nitroaniline	7.705	65	360132	46.50	ug/ml	99
43) Dimethylphthalate	8.026	163	1236795	44.67	ug/ml	100
44) Acenaphthylene	8.176	152	1580396	40.48	ug/ml	100
45) 2,6-Dinitrotoluene	8.106	165	279486	42.90	ug/ml#	81
46) 3-Nitroaniline	8.400	138	244418	40.70	ug/ml	97
47) Acenaphthene	8.475	154	906906	39.53	ug/ml	100
48) 2,4-Dinitrophenol	8.593	184	100099	48.01	ug/ml	92
49) 4-Nitrophenol	8.887	65	58016	17.51	ug/ml	86
50) Dibenzofuran	8.775	168	1374388	41.94	ug/ml	99
51) 2,4-Dinitrotoluene	8.812	165	363016	46.53	ug/ml	88
52) 2,3,4,6-Tetrachlorophenol	9.048	232	254522	41.96	ug/ml	99
53) Diethylphthalate	9.278	149	1340931	46.68	ug/ml	99
54) Fluorene	9.401	166	1177591	41.23	ug/ml	99
55) 4-Chlorophenyl-phenyle...	9.422	204	564988	38.87	ug/ml	99
56) 4-Nitroaniline	9.513	138	194599	41.73	ug/ml	93
58) 1,2-Diphenylhydrazine	9.727	77	1321419	43.61	ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.577	198	173289	45.38	ug/ml	98
60) Diphenylamine	9.668	169	843463	37.83	ug/ml	100
61) n-Nitrosodiphenylamine	9.668	169	843463	37.83	ug/ml	100
63) 4-Bromophenyl-phenylether	10.353	248	325833	43.32	ug/ml	98
64) Hexachlorobenzene	10.470	284	364178	44.44	ug/ml	98
65) Pentachlorophenol	10.904	266	117093	43.03	ug/ml	99
66) Phenanthrene	11.251	178	1543238	43.47	ug/ml	99
67) Anthracene	11.353	178	1513601	44.28	ug/ml	100
68) Carbazole	11.727	167	1210012	43.97	ug/ml	99
69) Di-n-butylphthalate	12.551	149	1935911	45.41	ug/ml	99
70) Fluoranthene	13.696	202	1453977	45.18	ug/ml	98
73) Pyrene	14.150	202	1391952	46.36	ug/ml	100
75) Butylbenzylphthalate	15.669	149	637211	47.65	ug/ml	100
76) Benzo(a)anthracene	16.707	228	1126972	47.01	ug/ml	99
77) 3,3'-Dichlorobenzidine	16.712	252	226820	38.60	ug/ml	98
78) Chrysene	16.782	228	992448	49.11	ug/ml	99
79) bis(2-Ethylhexyl)phtha...	16.948	149	842653	46.90	ug/ml	98
81) Di-n-octylphthalate	18.237	149	1211672	47.73	ug/ml#	97
82) Benzo(b)fluoranthene	18.841	252	856133	48.87	ug/ml	100
83) Benzo(k)fluoranthene	18.894	252	853330	53.33	ug/ml	99
84) Benzo(a)pyrene	19.424	252	668134	44.67	ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.622	276	660372	52.36	ug/ml	96
86) Dibenz(a,h)anthracene	21.649	278	557219	53.23	ug/ml	96
87) Benzo(g,h,i)perylene	22.211	276	507926	53.31	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 : j13701.D
Acq On : 8 Oct 2009 5:59 pm
Operator : sheilac
Sample : op13205-bsd,(8270)
Misc : op13205,Ej629,1000,,,1,1,water
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 08 18:21:31 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39169

Manual Integrations
APPROVED
(compounds with "m" flag)
Richard Rodriguez
10/21/09 17:36

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35493.D Vial: 11
Acq On : 20 Oct 2009 2:57 pm Operator: sheilac
Sample : op13269-bs Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 15:41 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:49:56 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	70796	4.00 ppb	0.00
4) Naphthalene-d8	7.56	136	52004	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	57183	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	65243	4.00 ppb	0.00
21) Chrysene-d12	13.87	240	63524	4.00 ppb	0.00
26) Perylene-d12	16.31	264	18127	4.00 ppb	0.00
System Monitoring Compounds					
5) Nitrobenzene-d5	6.58	82	10939	2.59 ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery	= 51.80%	
10) 2-Fluorobiphenyl	8.87	172	118125	3.42 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	= 68.40%	
16) 2,4,6-Tribromophenol	10.40	330	23778	7.03 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	= 70.30%	
23) Terphenyl-d14	12.66	244	28138	3.53 ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	= 70.60%	

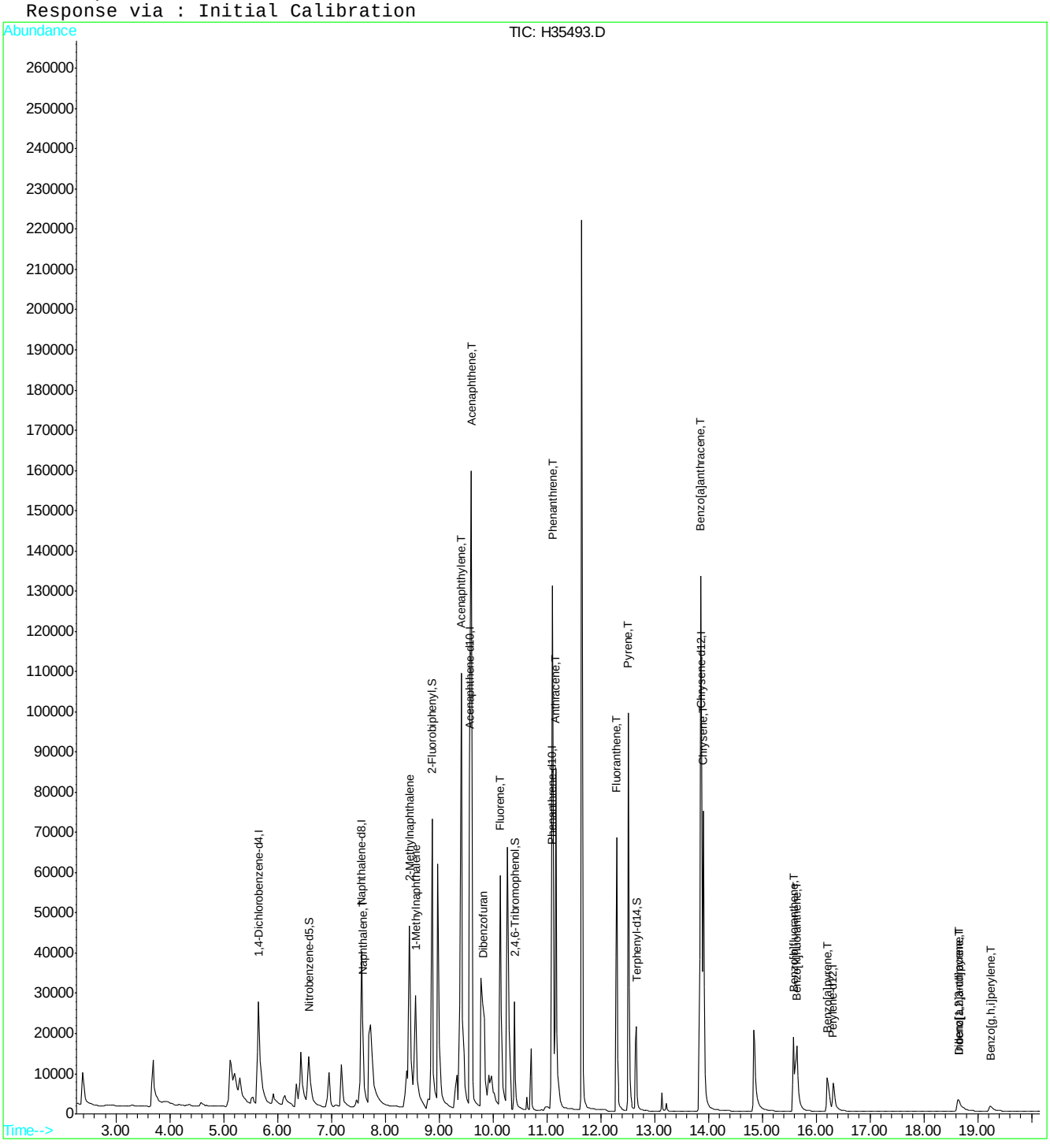
Target Compounds						Qvalue
6) Naphthalene	7.59	128	45058	2.13 ppb		95
7) 2-Methylnaphthalene	8.45	142	63474m	2.85 ppb		
8) 1-Methylnaphthalene	8.56	142	59723	2.53 ppb	#	97
11) Acenaphthylene	9.41	152	146890	3.28 ppb		99
12) Acenaphthene	9.60	153	102617	3.01 ppb		96
13) Dibenzofuran	9.81	168	68046	2.66 ppb		92
14) Fluorene	10.13	166	49282	2.67 ppb		93
18) Phenanthrene	11.11	178	131701	3.74 ppb		99
19) Anthracene	11.17	178	100806	2.71 ppb		96
20) Fluoranthene	12.29	202	114038	3.24 ppb		99
22) Pyrene	12.51	202	131340	3.65 ppb		100
24) Benzo[a]anthracene	13.85	228	88751	3.82 ppb		99
25) Chrysene	13.90	228	80376	3.48 ppb		100
27) Benzo[b]fluoranthene	15.59	252	29534	3.61 ppb		100
28) Benzo[k]fluoranthene	15.64	252	43788m	4.49 ppb		
29) Benzo[a]pyrene	16.21	252	23323	3.27 ppb		98
30) Indeno[1,2,3-cd]pyrene	18.65	276	8408	3.42 ppb		100
31) Dibenz[a,h]anthracene	18.65	278	5746	3.58 ppb		96
32) Benzo[g,h,i]perylene	19.24	276	6045	3.43 ppb		99

(#) = qualifier out of range (m) = manual integration
H35493.D H10209SP.M Tue Oct 20 17:09:22 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35493.D Vial: 11
Acq On : 20 Oct 2009 2:57 pm Operator: sheilac
Sample : op13269-bs Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 15:41 2009 Quant Results File: H10209SP.RES

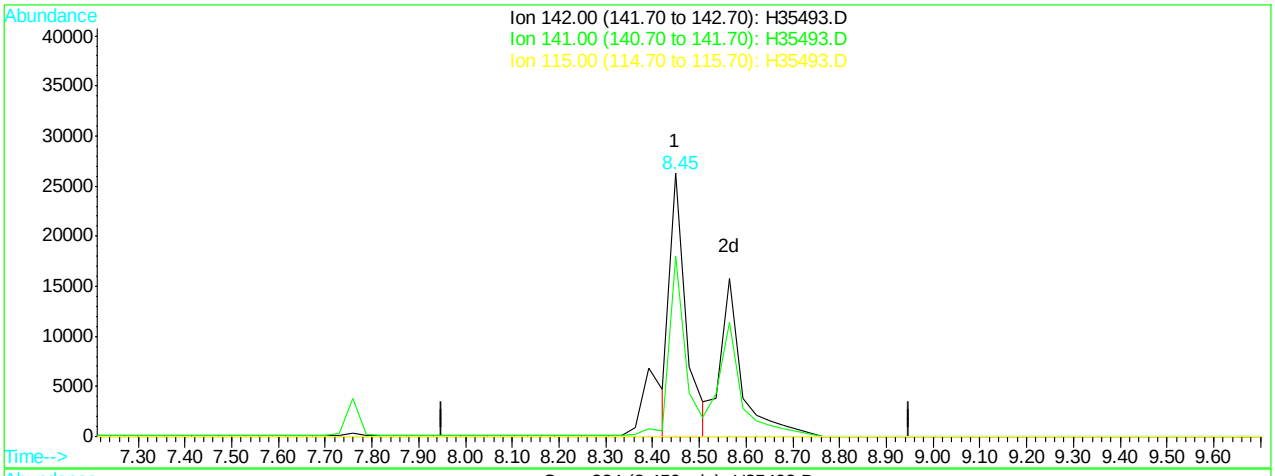
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Initial Calibration

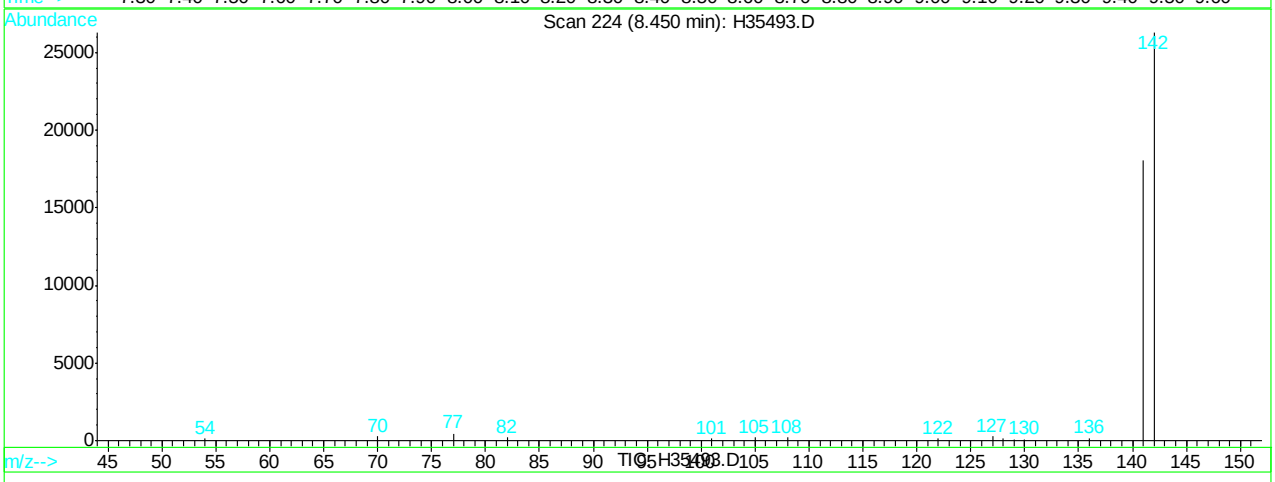


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35493.D Vial: 11
Acq On : 20 Oct 2009 2:57 pm Operator: sheilac
Sample : op13269-bs Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 15:41 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.45min 2.85ppb m

response 63474

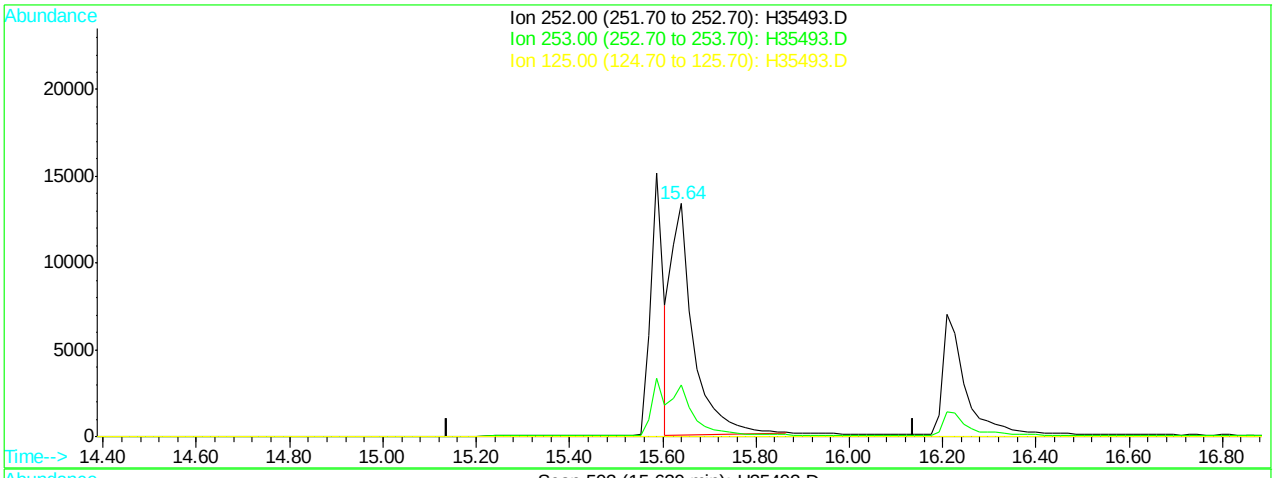
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	69.71
115.00	0.00	0.00
0.00	0.00	0.00

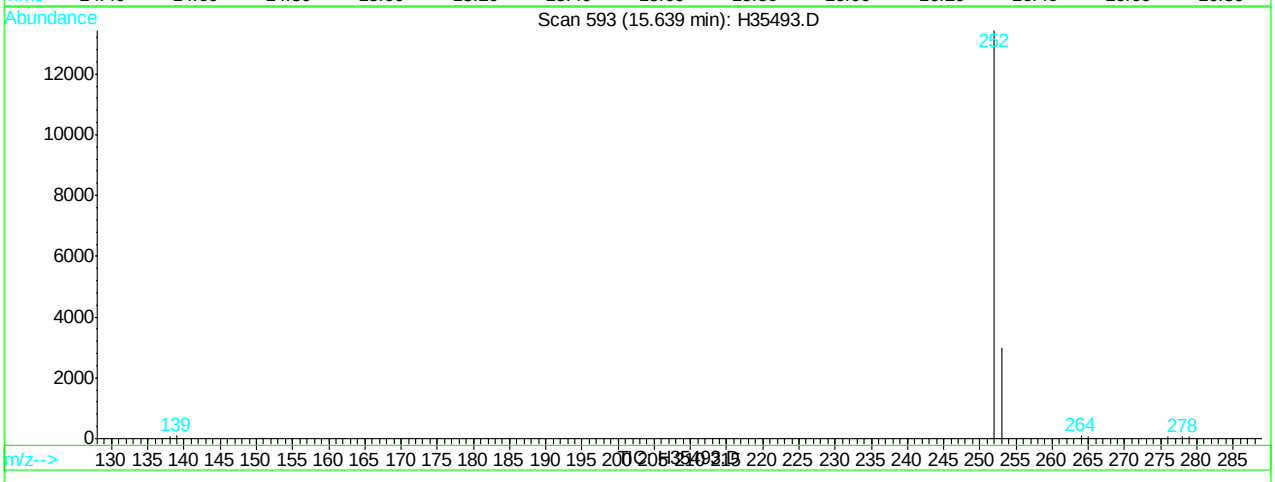
H35493.D H10209SP.M Tue Oct 20 17:09:41 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35493.D Vial: 11
Acq On : 20 Oct 2009 2:57 pm Operator: sheilac
Sample : op13269-bs Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 15:41 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.64min 4.49ppb m

response 43788

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	22.25
125.00	0.00	0.00
0.00	0.00	0.00

H35493.D H10209SP.M Tue Oct 20 17:09:45 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/21/09 17:36

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35494.D Vial: 12
Acq On : 20 Oct 2009 3:28 pm Operator: sheilac
Sample : op13269-bsd Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 15:43 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:49:56 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	67631	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	50168	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	58468	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	63719	4.00	ppb	0.00
21) Chrysene-d12	13.87	240	61836	4.00	ppb	0.00
26) Perylene-d12	16.31	264	18470	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.58	82	9799	2.41	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery	=	48.20%	
10) 2-Fluorobiphenyl	8.87	172	123338	3.49	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	69.80%	
16) 2,4,6-Tribromophenol	10.40	330	24098	7.30	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	=	73.00%	
23) Terphenyl-d14	12.66	244	28154	3.62	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	72.40%	

Target Compounds

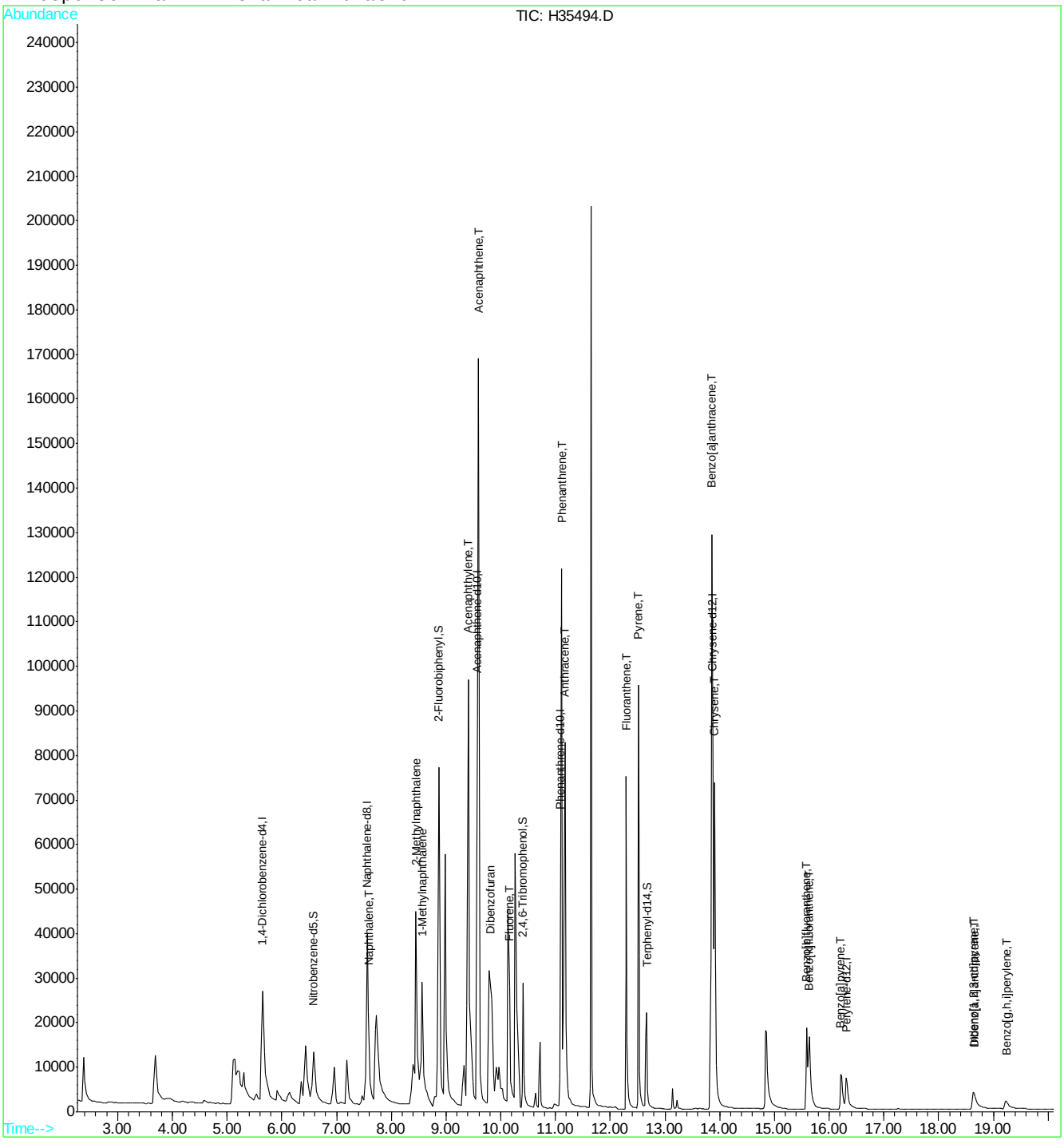
							Qvalue
6) Naphthalene	7.59	128	44865	2.20	ppb		94
7) 2-Methylnaphthalene	8.45	142	61020m	2.84	ppb		
8) 1-Methylnaphthalene	8.57	142	59092	2.60	ppb	#	96
11) Acenaphthylene	9.41	152	131765	2.88	ppb		97
12) Acenaphthene	9.59	153	109633	3.14	ppb		90
13) Dibenzofuran	9.81	168	67425	2.57	ppb		88
14) Fluorene	10.16	166	42973	2.25	ppb	#	47
18) Phenanthrene	11.11	178	128308	3.73	ppb		98
19) Anthracene	11.17	178	97844	2.70	ppb		95
20) Fluoranthene	12.29	202	115247	3.35	ppb		100
22) Pyrene	12.51	202	130141	3.72	ppb		98
24) Benzo[a]anthracene	13.85	228	85562	3.79	ppb		98
25) Chrysene	13.90	228	81149	3.61	ppb		100
27) Benzo[b]fluoranthene	15.59	252	28355m	3.44	ppb		
28) Benzo[k]fluoranthene	15.64	252	44920m	4.53	ppb		
29) Benzo[a]pyrene	16.21	252	23175	3.19	ppb		97
30) Indeno[1,2,3-cd]pyrene	18.63	276	10319	4.06	ppb		94
31) Dibenz[a,h]anthracene	18.65	278	7117	4.25	ppb		96
32) Benzo[g,h,i]perylene	19.24	276	7975	4.34	ppb		97

(#) = qualifier out of range (m) = manual integration
H35494.D H10209SP.M Tue Oct 20 17:09:52 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35494.D Vial: 12
Acq On : 20 Oct 2009 3:28 pm Operator: sheilac
Sample : op13269-bsd Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 15:43 2009 Quant Results File: H10209SP.RES

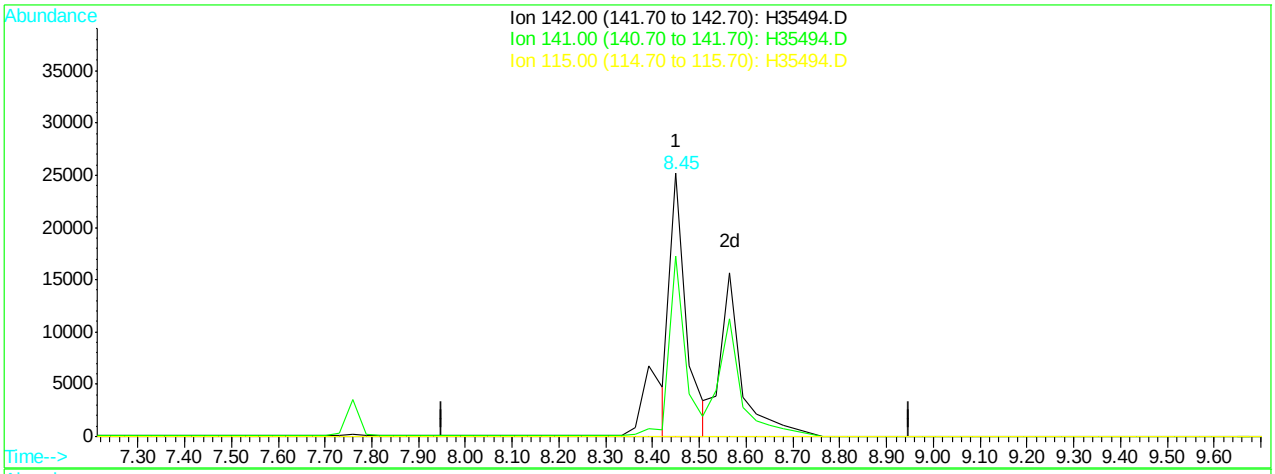
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Initial Calibration

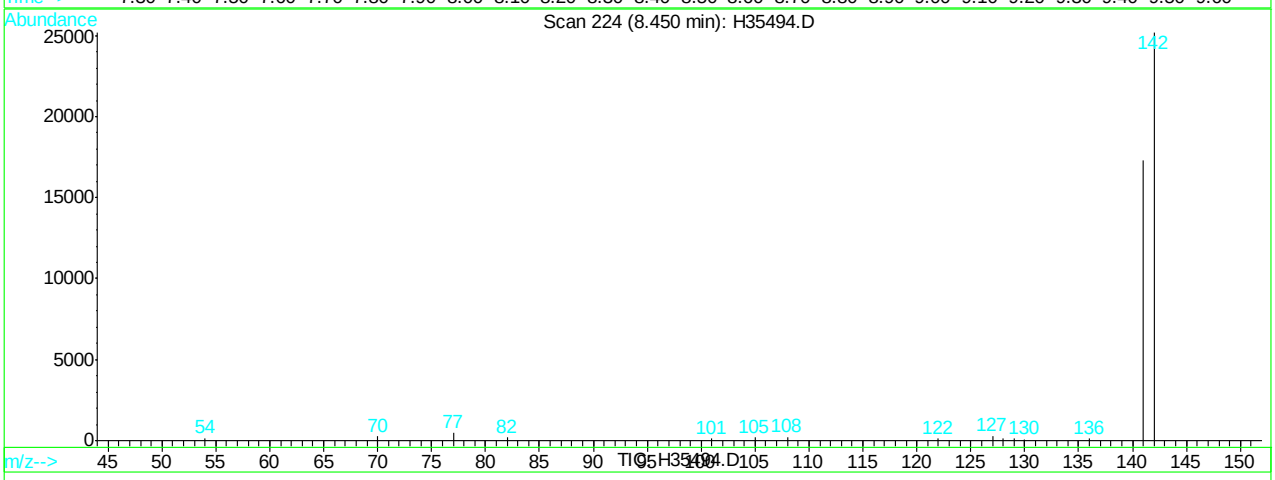


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35494.D Vial: 12
Acq On : 20 Oct 2009 3:28 pm Operator: sheilac
Sample : op13269-bsd Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 15:43 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.45min 2.84ppb m

response 61020

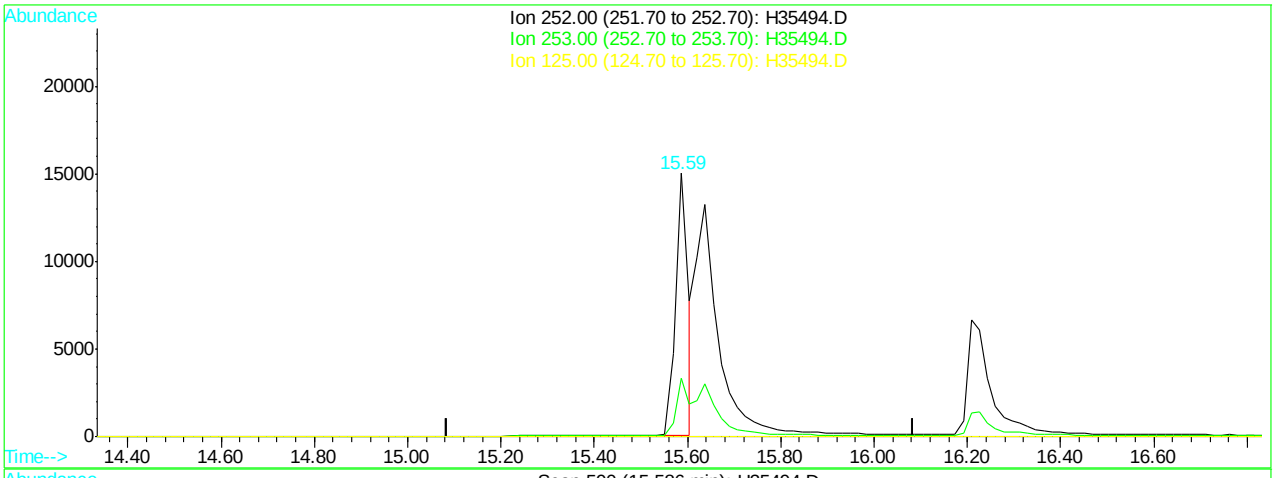
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	69.76
115.00	0.00	0.00
0.00	0.00	0.00

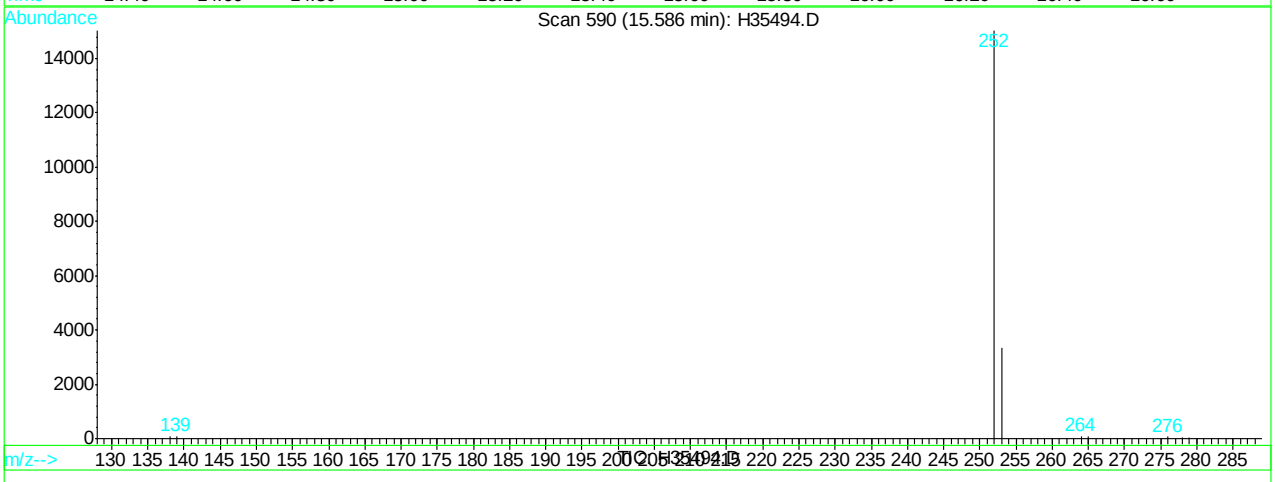
H35494.D H10209SP.M Tue Oct 20 17:10:04 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35494.D Vial: 12
Acq On : 20 Oct 2009 3:28 pm Operator: sheilac
Sample : op13269-bsd Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 15:43 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.59min 3.44ppb m

response 28355

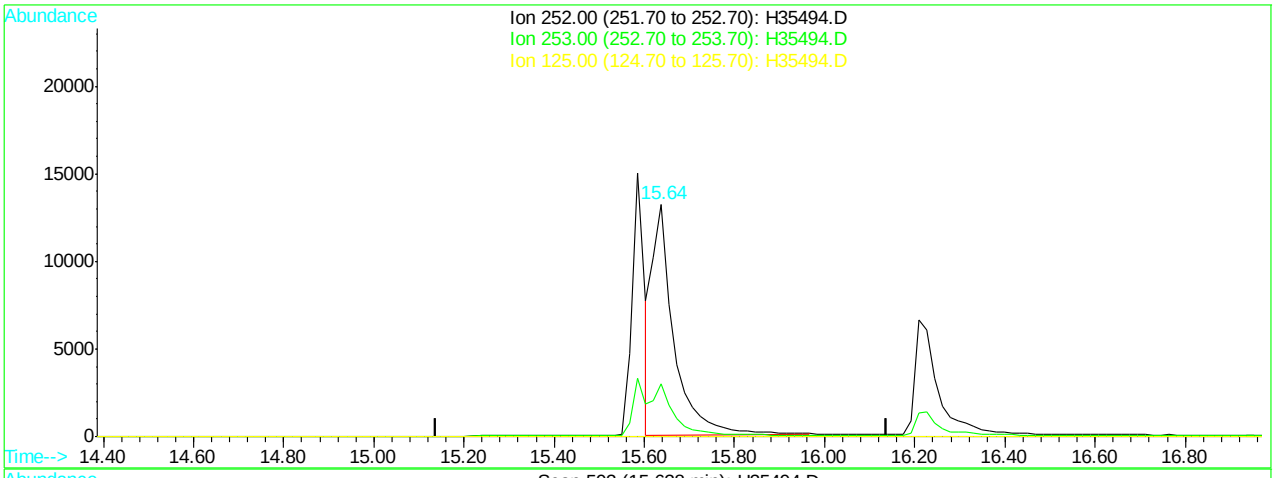
Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.32
125.00	0.00	0.00
0.00	0.00	0.00

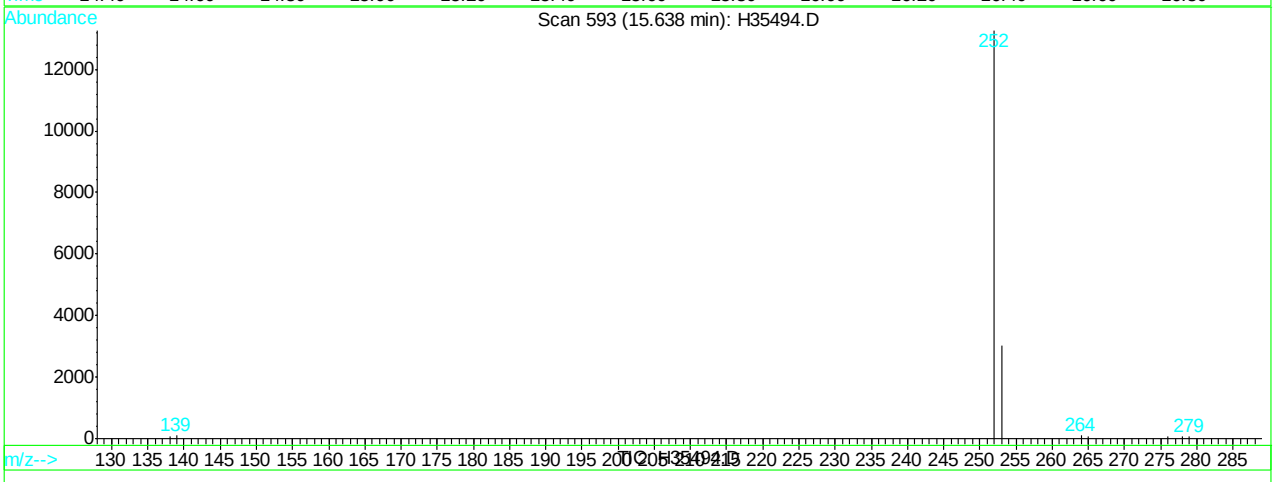
H35494.D H10209SP.M Tue Oct 20 17:10:12 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35494.D Vial: 12
Acq On : 20 Oct 2009 3:28 pm Operator: sheilac
Sample : op13269-bsd Inst : TXMSH
Misc : OP13269,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 15:43 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 16:31:44 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.64min 4.53ppb m

response 44920

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	22.70
125.00	0.00	0.00
0.00	0.00	0.00

H35494.D H10209SP.M Tue Oct 20 17:10:15 2009

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13713.D
Acq On : 8 Oct 2009 11:57 pm
Operator : sheilac
Sample : op13205-ms
Misc : op13205,Ej630,500,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 09 09:26:29 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.731	152	623859	40.00	ug/ml	0.00
20) Naphthalene-d8	5.945	136	2134327	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.416	164	1117983	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.198	188	1454233	40.00	ug/ml	0.00
71) Chrysene-d12	16.723	240	975258	40.00	ug/ml	-0.01
80) Perylene-d12	19.526	264	602311	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.726	112	1155398	59.02	ug/ml	0.05
Spiked Amount 100.000	Range 10 - 66		Recovery = 59.02%			
5) Phenol-d5 (SURR)	4.501	99	1242677	50.79	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 50.79%			
21) Nitrobenzene-d5 (SURR)	5.229	82	805413	35.98	ug/ml	-0.07
Spiked Amount 50.000	Range 29 - 115		Recovery = 71.96%			
40) 2-Fluorobiphenyl (SURR)	7.347	172	1513598	33.50	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 67.00%			
62) 2,4,6-Tribromophenol (...	9.866	330	403862	82.54	ug/ml	-0.10
Spiked Amount 100.000	Range 32 - 128		Recovery = 82.54%			
74) Terphenyl-d14	14.567	244	1104372	47.42	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 94.84%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.479	74	362513	34.57	ug/ml	94
3) Pyridine	2.474	79	96571	5.22	ug/ml	99
6) Phenol	4.512	94	654676	24.72	ug/ml	96
7) Aniline	4.480	93	281818	10.99	ug/ml	90
8) bis(2-Chloroethyl)ether	4.523	93	696877	26.85	ug/ml	92
9) 2-Chlorophenol	4.587	128	648267	31.56	ug/ml	99
10) 1,3-Dichlorobenzene	4.683	146	619582	26.63	ug/ml	99
11) 1,4-Dichlorobenzene	4.742	146	665502	26.66	ug/ml	99
12) Benzyl Alcohol	4.876	108	450101	31.45	ug/ml	97
13) 1,2-Dichlorobenzene	4.876	146	639961	27.33	ug/ml	99
14) 2-Methylphenol	5.138	108	1251885	67.44	ug/ml	82
15) bis(2-chloroisopropyl)...	4.972	45	973481	29.61	ug/ml#	72
16) 4-Methylphenol	5.138	108	1284007	65.39	ug/ml	98
17) m+p-Cresols	5.138	108	1284007	65.39	ug/ml	98
18) n-Nitroso-di-n-propyla...	5.106	70	568662	31.93	ug/ml	99
19) Hexachloroethane	5.170	117	240499	26.40	ug/ml	99
22) Nitrobenzene	5.245	77	769637	35.01	ug/ml	99
23) Isophorone	5.475	82	1344556	33.31	ug/ml	100
24) 2-Nitrophenol	5.550	139	334913	33.14	ug/ml	97
25) 2,4-Dimethylphenol	5.619	122	538557	32.22	ug/ml	99
26) bis(2-Chloroethoxy)met...	5.683	93	756912	34.03	ug/ml	100
27) Benzoic Acid	5.806	105	289942	34.93	ug/ml	96
28) 2,4-Dichlorophenol	5.828	162	494100	33.61	ug/ml	99
29) 1,2,4-Trichlorobenzene	5.881	180	486950	27.53	ug/ml	99
30) Naphthalene	5.967	128	1760813	30.29	ug/ml	100
31) 4-Chloroaniline	6.036	127	245681	13.82	ug/ml	97
32) Hexachlorobutadiene	6.111	225	308991	27.82	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13713.D
Acq On : 8 Oct 2009 11:57 pm
Operator : sheilac
Sample : op13205-ms
Misc : op13205,Ej630,500,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 09 09:26:29 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

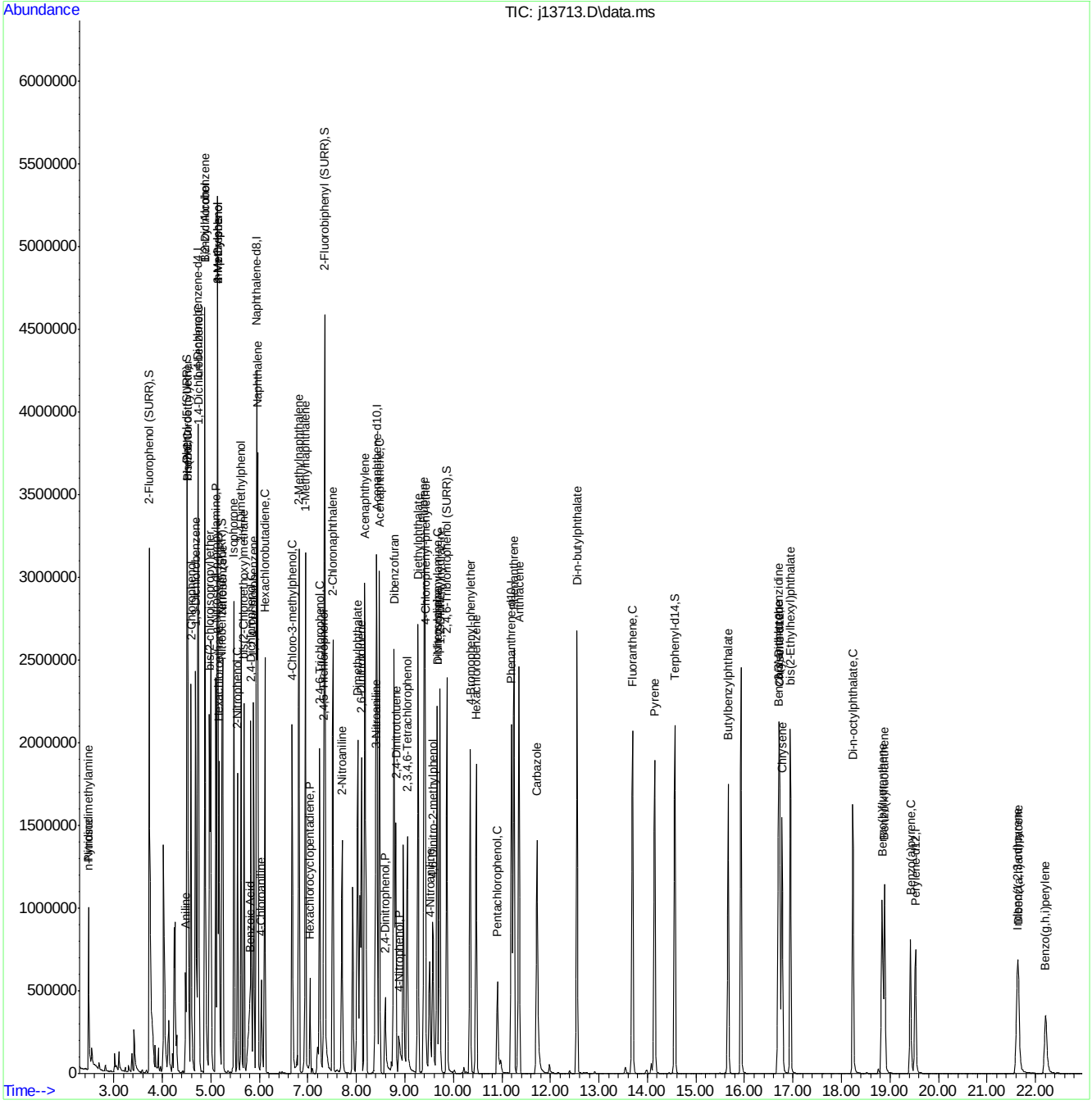
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.673	107	563546	33.94 ug/ml	99
34) 2-Methylnaphthalene	6.812	142	1132189	31.88 ug/ml	99
35) 1-Methylnaphthalene	6.951	142	1106293	29.74 ug/ml	99
37) Hexachlorocyclopentadiene	7.047	237	97177	24.94 ug/ml	95
38) 2,4,6-Trichlorophenol	7.245	196	329019	35.27 ug/ml	99
39) 2,4,5-Trichlorophenol	7.325	196	350542	32.75 ug/ml	100
41) 2-Chloronaphthalene	7.513	162	996105	31.89 ug/ml	99
42) 2-Nitroaniline	7.705	65	411894	39.22 ug/ml	97
43) Dimethylphthalate	8.026	163	1433971	38.19 ug/ml	100
44) Acenaphthylene	8.176	152	1771698	33.46 ug/ml	100
45) 2,6-Dinitrotoluene	8.106	165	316230	35.80 ug/ml#	81
46) 3-Nitroaniline	8.395	138	269689	33.66 ug/ml	96
47) Acenaphthene	8.475	154	1020185	32.80 ug/ml	100
48) 2,4-Dinitrophenol	8.593	184	120502	43.82 ug/ml	96
49) 4-Nitrophenol	8.876	65	105696	22.42 ug/ml#	79
50) Dibenzofuran	8.775	168	1502779	33.82 ug/ml	99
51) 2,4-Dinitrotoluene	8.812	165	401336	37.94 ug/ml	88
52) 2,3,4,6-Tetrachlorophenol	9.048	232	279515	34.57 ug/ml	99
53) Diethylphthalate	9.272	149	1507731	38.71 ug/ml	99
54) Fluorene	9.395	166	1296576	33.48 ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.422	204	621635	32.05 ug/ml	98
56) 4-Nitroaniline	9.513	138	214978	34.00 ug/ml	96
58) 1,2-Diphenylhydrazine	9.722	77	1436159	38.83 ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.577	198	195655	42.42 ug/ml	98
60) Diphenylamine	9.668	169	924305	33.96 ug/ml	100
61) n-Nitrosodiphenylamine	9.668	169	924305	33.96 ug/ml	100
63) 4-Bromophenyl-phenylether	10.347	248	350129	38.14 ug/ml	98
64) Hexachlorobenzene	10.470	284	390187	39.01 ug/ml	97
65) Pentachlorophenol	10.904	266	131527	40.52 ug/ml	99
66) Phenanthrene	11.251	178	1716378	39.61 ug/ml	99
67) Anthracene	11.353	178	1675545	40.16 ug/ml	98
68) Carbazole	11.722	167	1352119	40.26 ug/ml	100
69) Di-n-butylphthalate	12.551	149	2127935	40.90 ug/ml	100
70) Fluoranthene	13.696	202	1590931	40.50 ug/ml	99
73) Pyrene	14.150	202	1514957	44.09 ug/ml	100
75) Butylbenzylphthalate	15.669	149	673229	43.99 ug/ml	99
76) Benzo(a)anthracene	16.707	228	1169653	42.63 ug/ml	99
77) 3,3'-Dichlorobenzidine	16.712	252	60706	9.03 ug/ml#	89
78) Chrysene	16.776	228	1053636	45.56 ug/ml	99
79) bis(2-Ethylhexyl)phtha...	16.948	149	867471	42.18 ug/ml	98
81) Di-n-octylphthalate	18.237	149	1257606	43.60 ug/ml#	97
82) Benzo(b)fluoranthene	18.841	252	882834	44.35 ug/ml	99
83) Benzo(k)fluoranthene	18.889	252	894877	49.22 ug/ml	99
84) Benzo(a)pyrene	19.424	252	661298	38.91 ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.622	276	671262	46.84 ug/ml	97
86) Dibenz(a,h)anthracene	21.649	278	556752	46.81 ug/ml	96
87) Benzo(g,h,i)perylene	22.205	276	516388	47.70 ug/ml	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13713.D
Acq On : 8 Oct 2009 11:57 pm
Operator : sheilac
Sample : op13205-ms
Misc : op13205,Ej630,500,,,1,1,water
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 09 09:26:29 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13714.D
Acq On : 9 Oct 2009 12:27 am
Operator : sheilac
Sample : op13205-msd
Misc : op13205,Ej630,500,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 09 09:31:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.731	152	619023	40.00	ug/ml	0.00
20) Naphthalene-d8	5.945	136	2140655	40.00	ug/ml	0.00
36) Acenaphthene-d10	8.422	164	1164370	40.00	ug/ml	0.00
57) Phenanthrene-d10	11.203	188	1622337	40.00	ug/ml	0.00
71) Chrysene-d12	16.728	240	1153967	40.00	ug/ml	0.00
80) Perylene-d12	19.526	264	787111	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.726	112	1116767	57.49	ug/ml	0.05
Spiked Amount 100.000	Range 10 - 66		Recovery = 57.49%			
5) Phenol-d5 (SURR)	4.507	99	1213459	49.98	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 49.98%			
21) Nitrobenzene-d5 (SURR)	5.229	82	790780	35.23	ug/ml	-0.07
Spiked Amount 50.000	Range 29 - 115		Recovery = 70.46%			
40) 2-Fluorobiphenyl (SURR)	7.347	172	1506447	32.05	ug/ml	-0.20
Spiked Amount 50.000	Range 34 - 113		Recovery = 64.10%			
62) 2,4,6-Tribromophenol (...	9.871	330	435875	79.85	ug/ml	-0.09
Spiked Amount 100.000	Range 32 - 128		Recovery = 79.85%			
74) Terphenyl-d14	14.567	244	1238580	44.95	ug/ml	-0.03
Spiked Amount 50.000	Range 12 - 145		Recovery = 89.90%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.479	74	351762	33.81	ug/ml	93
3) Pyridine	2.474	79	93296	5.08	ug/ml	99
6) Phenol	4.512	94	657270	25.02	ug/ml	95
7) Aniline	4.480	93	277207	10.92	ug/ml	90
8) bis(2-Chloroethyl)ether	4.523	93	704922	27.37	ug/ml	93
9) 2-Chlorophenol	4.587	128	651950	31.99	ug/ml	99
10) 1,3-Dichlorobenzene	4.683	146	623399	27.00	ug/ml	99
11) 1,4-Dichlorobenzene	4.742	146	677558	27.35	ug/ml	99
12) Benzyl Alcohol	4.876	108	436146	30.71	ug/ml	97
13) 1,2-Dichlorobenzene	4.876	146	643718	27.70	ug/ml	99
14) 2-Methylphenol	4.993	108	598791	32.51	ug/ml#	89
15) bis(2-chloroisopropyl)...	4.972	45	970334	29.75	ug/ml#	71
16) 4-Methylphenol	5.138	108	1302846	66.86	ug/ml	98
17) m+p-Cresols	5.138	108	1302846	66.86	ug/ml	98
18) n-Nitroso-di-n-propyla...	5.106	70	571715	32.35	ug/ml	99
19) Hexachloroethane	5.164	117	243315	26.92	ug/ml	99
22) Nitrobenzene	5.245	77	783893	35.55	ug/ml	99
23) Isophorone	5.475	82	1371881	33.89	ug/ml	99
24) 2-Nitrophenol	5.550	139	346868	34.22	ug/ml	97
25) 2,4-Dimethylphenol	5.624	122	553295	33.01	ug/ml	97
26) bis(2-Chloroethoxy)met...	5.683	93	766598	34.36	ug/ml	100
27) Benzoic Acid	5.812	105	313339	37.64	ug/ml	97
28) 2,4-Dichlorophenol	5.828	162	507892	34.44	ug/ml	100
29) 1,2,4-Trichlorobenzene	5.881	180	500348	28.20	ug/ml	99
30) Naphthalene	5.967	128	1822522	31.26	ug/ml	100
31) 4-Chloroaniline	6.036	127	244055	13.71	ug/ml	96
32) Hexachlorobutadiene	6.111	225	317582	28.51	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13714.D
Acq On : 9 Oct 2009 12:27 am
Operator : sheilac
Sample : op13205-msd
Misc : op13205,Ej630,500,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 09 09:31:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration

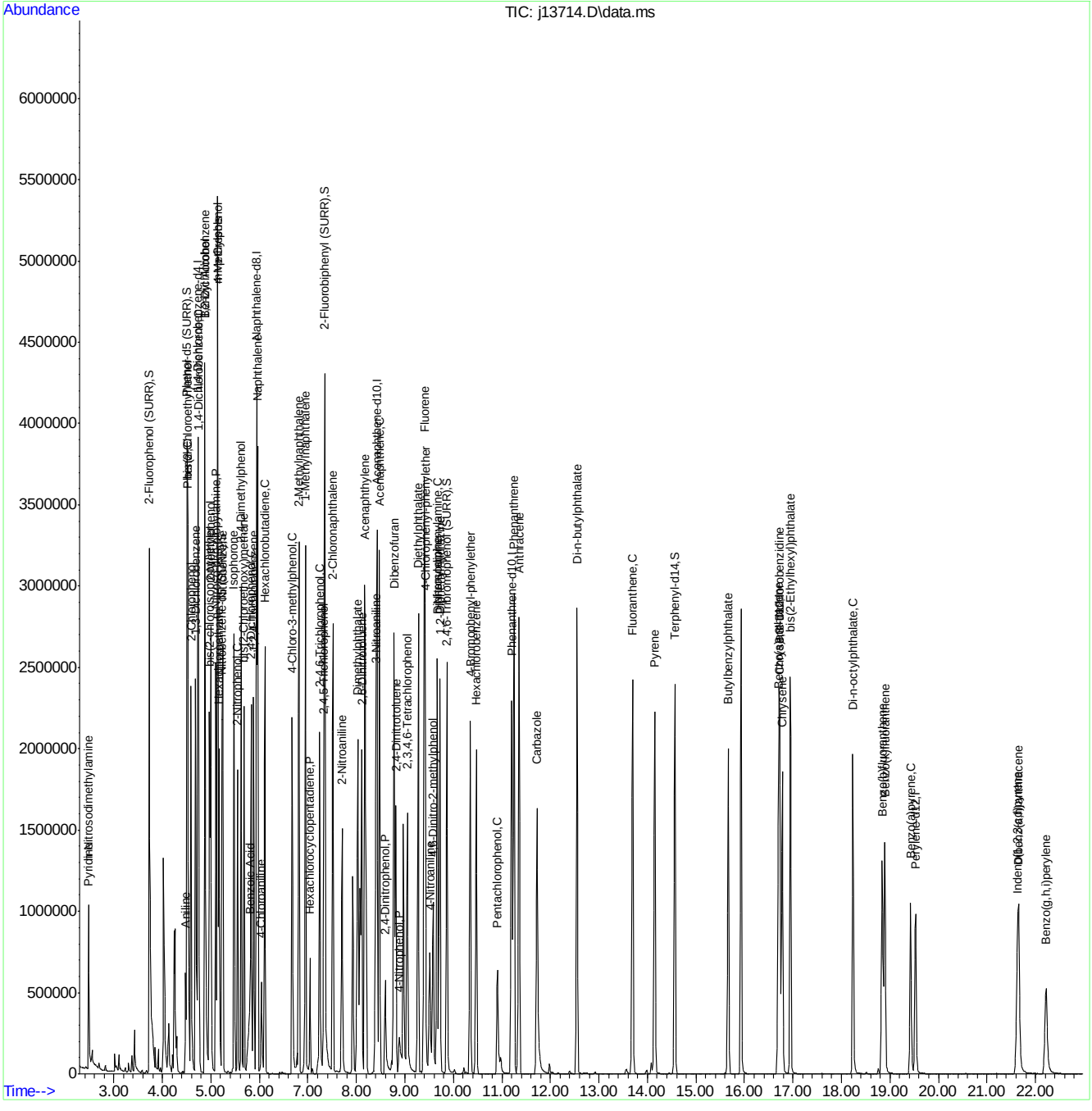
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.673	107	593729	35.65	ug/ml	99
34) 2-Methylnaphthalene	6.817	142	1174703	32.98	ug/ml	99
35) 1-Methylnaphthalene	6.951	142	1151495	30.87	ug/ml	99
37) Hexachlorocyclopentadiene	7.042	237	119354	28.17	ug/ml	98
38) 2,4,6-Trichlorophenol	7.245	196	343637	35.37	ug/ml	99
39) 2,4,5-Trichlorophenol	7.325	196	370721	33.19	ug/ml	99
41) 2-Chloronaphthalene	7.512	162	1047991	32.21	ug/ml	100
42) 2-Nitroaniline	7.705	65	441569	40.37	ug/ml	98
43) Dimethylphthalate	8.026	163	1510235	38.62	ug/ml	100
44) Acenaphthylene	8.176	152	1878048	34.06	ug/ml	100
45) 2,6-Dinitrotoluene	8.112	165	339024	36.85	ug/ml#	80
46) 3-Nitroaniline	8.400	138	300993	35.86	ug/ml	96
47) Acenaphthene	8.475	154	1083054	33.43	ug/ml	99
48) 2,4-Dinitrophenol	8.593	184	143894	48.67	ug/ml	94
49) 4-Nitrophenol	8.882	65	106851	21.86	ug/ml#	69
50) Dibenzofuran	8.780	168	1613777	34.87	ug/ml	99
51) 2,4-Dinitrotoluene	8.818	165	449551	40.80	ug/ml	89
52) 2,3,4,6-Tetrachlorophenol	9.048	232	312328	36.87	ug/ml	99
53) Diethylphthalate	9.278	149	1628367	40.14	ug/ml	99
54) Fluorene	9.401	166	1416889	35.13	ug/ml	99
55) 4-Chlorophenyl-phenyle...	9.422	204	672422	33.18	ug/ml	99
56) 4-Nitroaniline	9.518	138	238638	36.23	ug/ml	96
58) 1,2-Diphenylhydrazine	9.721	77	1557202	37.74	ug/ml	100
59) 4,6-Dinitro-2-methylph...	9.582	198	229596	44.31	ug/ml	98
60) Diphenylamine	9.668	169	1015644	33.45	ug/ml	100
61) n-Nitrosodiphenylamine	9.668	169	1015644	33.45	ug/ml	100
63) 4-Bromophenyl-phenylether	10.347	248	383333	37.43	ug/ml	98
64) Hexachlorobenzene	10.470	284	427206	38.28	ug/ml	97
65) Pentachlorophenol	10.909	266	155156	42.19	ug/ml	99
66) Phenanthrene	11.251	178	1937982	40.09	ug/ml	100
67) Anthracene	11.353	178	1901733	40.86	ug/ml	98
68) Carbazole	11.722	167	1550187	41.37	ug/ml	100
69) Di-n-butylphthalate	12.551	149	2367693	40.79	ug/ml	99
70) Fluoranthene	13.695	202	1837260	41.93	ug/ml	99
73) Pyrene	14.150	202	1756492	43.20	ug/ml	99
75) Butylbenzylphthalate	15.669	149	772545	42.66	ug/ml	99
76) Benzo(a)anthracene	16.707	228	1376343	42.40	ug/ml	99
77) 3,3'-Dichlorobenzidine	16.717	252	60598	7.62	ug/ml#	91
78) Chrysene	16.782	228	1242897	45.42	ug/ml	100
79) bis(2-Ethylhexyl)phtha...	16.947	149	1010852	41.54	ug/ml	99
81) Di-n-octylphthalate	18.236	149	1502028	39.84	ug/ml#	97
82) Benzo(b)fluoranthene	18.841	252	1128404	43.38	ug/ml	100
83) Benzo(k)fluoranthene	18.894	252	1094716	46.07	ug/ml	99
84) Benzo(a)pyrene	19.424	252	851144	38.32	ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.628	276	982656	52.47	ug/ml	97
86) Dibenz(a,h)anthracene	21.654	278	812859	52.30	ug/ml	97
87) Benzo(g,h,i)perylene	22.221	276	773695	54.69	ug/ml	98

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

Quantitation Report (QT Reviewed)

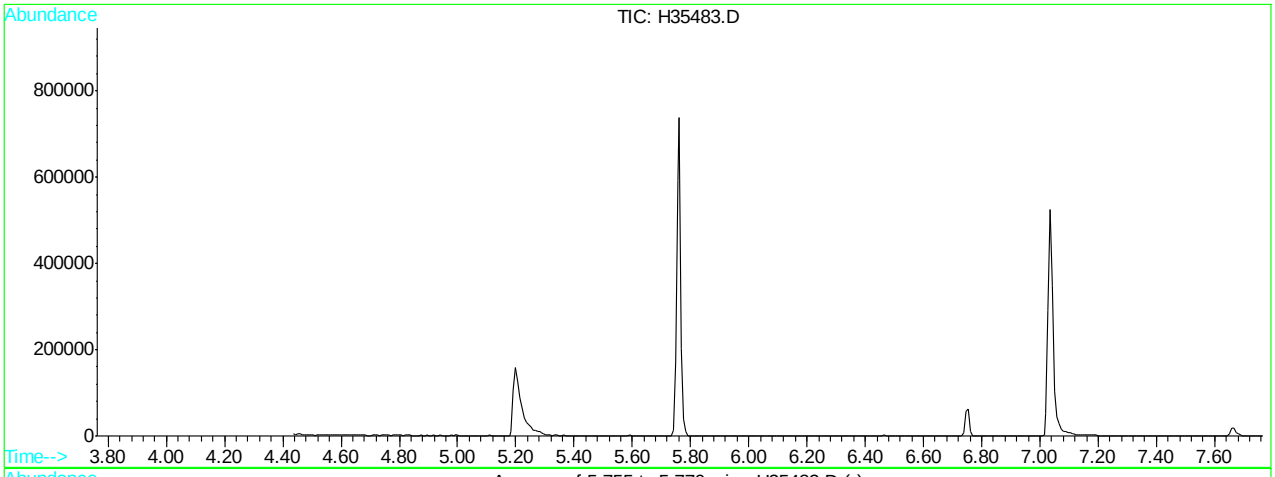
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13714.D
Acq On : 9 Oct 2009 12:27 am
Operator : sheilac
Sample : op13205-msd
Misc : op13205,Ej630,500,,,1,1,water
ALS Vial : 13 Sample Multiplier: 1

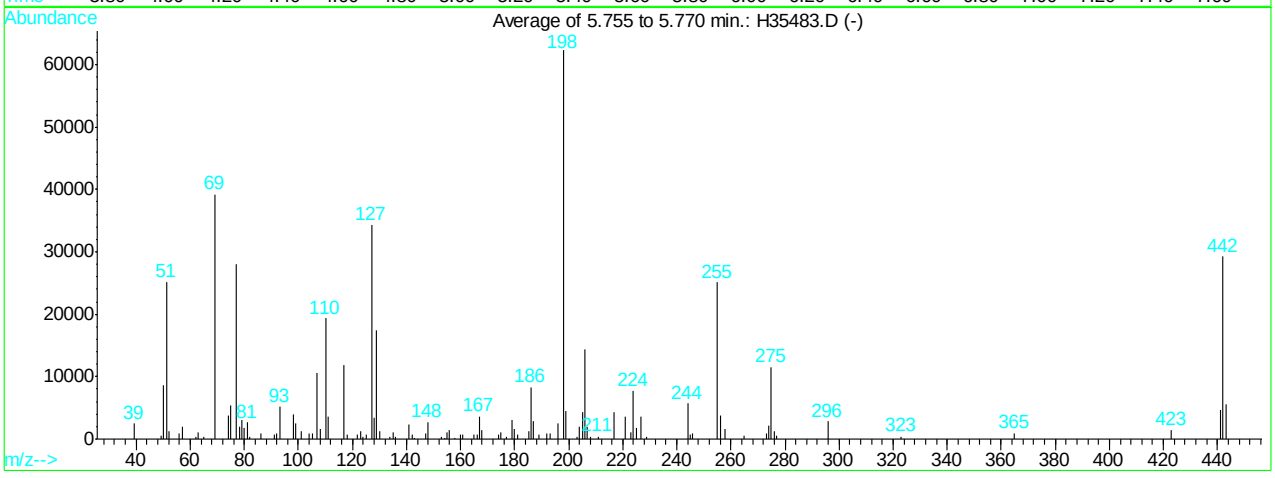
Quant Time: Oct 09 09:31:40 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Fri Oct 09 09:24:30 2009
Response via : Initial Calibration



DFTPP

```
Data File : C:\HPCHEM\1\DATA\EH1917\H35483.D            Vial: 1
Acq On    : 20 Oct 2009  10:23 am                   Operator: sheilac
Sample    : dftpp                                   Inst    : TXMSH
Misc      : OP12779,EH1917,1000,,,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 179, 180, 181; Background Corrected with Scan 174

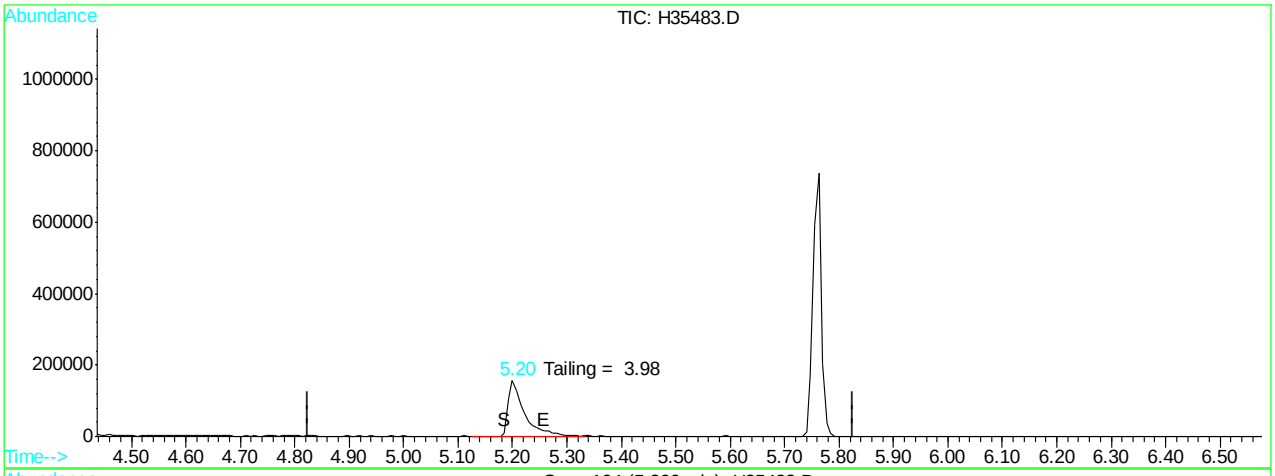
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.5	25242	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	63.0	39240	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	55.0	34233	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	62272	PASS
199	198	5	9	7.3	4517	PASS
275	198	10	30	18.5	11534	PASS
365	198	1	100	1.5	947	PASS
441	443	0.01	100	83.5	4702	PASS
442	198	40	100	47.0	29253	PASS
443	442	17	23	19.2	5629	PASS

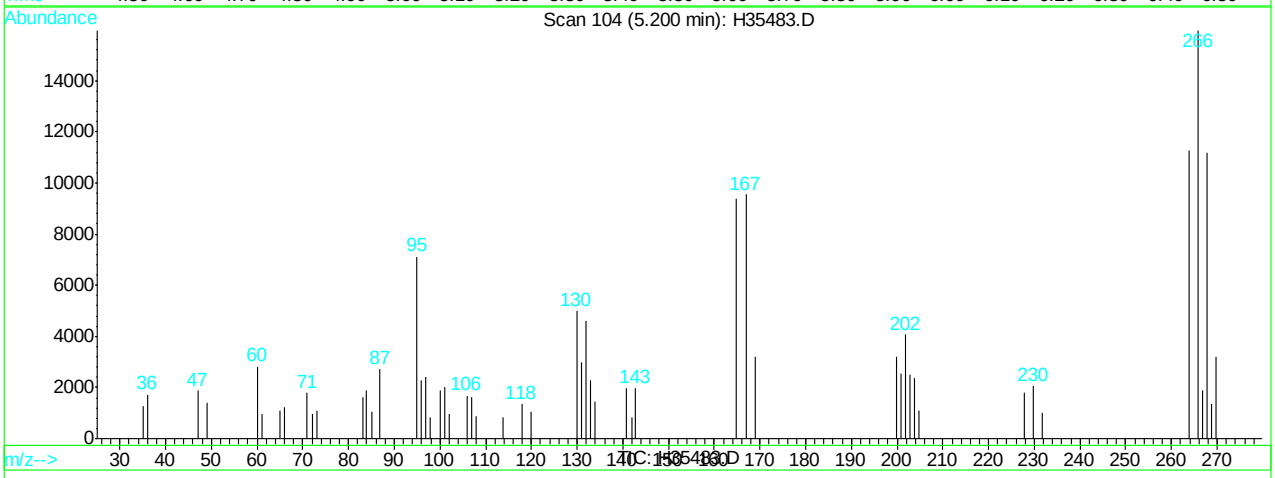
H35483.D DFTPP.M Tue Oct 20 10:43:46 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35483.D Vial: 1
Acq On : 20 Oct 2009 10:23 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 20 10:44 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

5.20min 0.00

response 322529

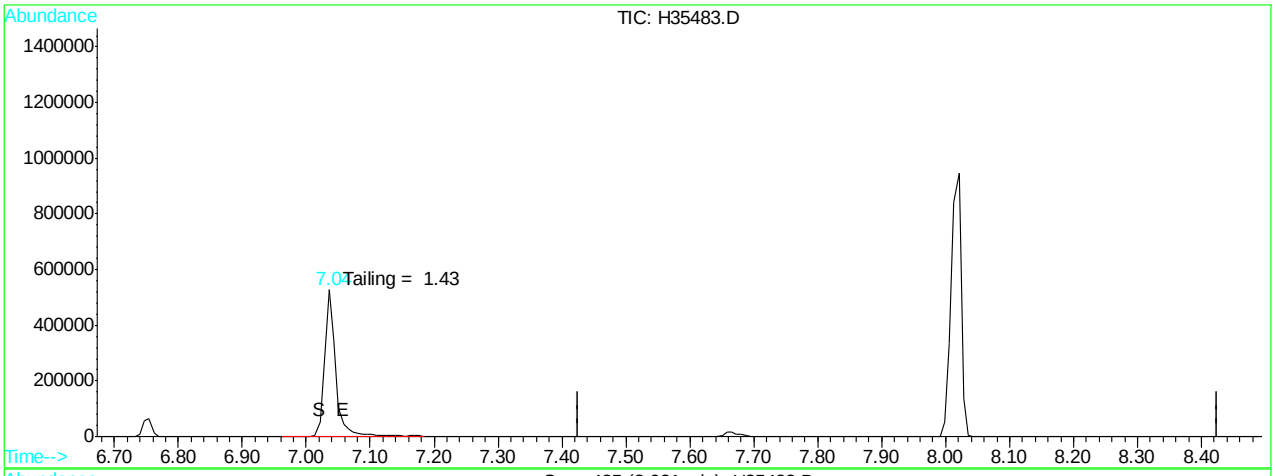
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

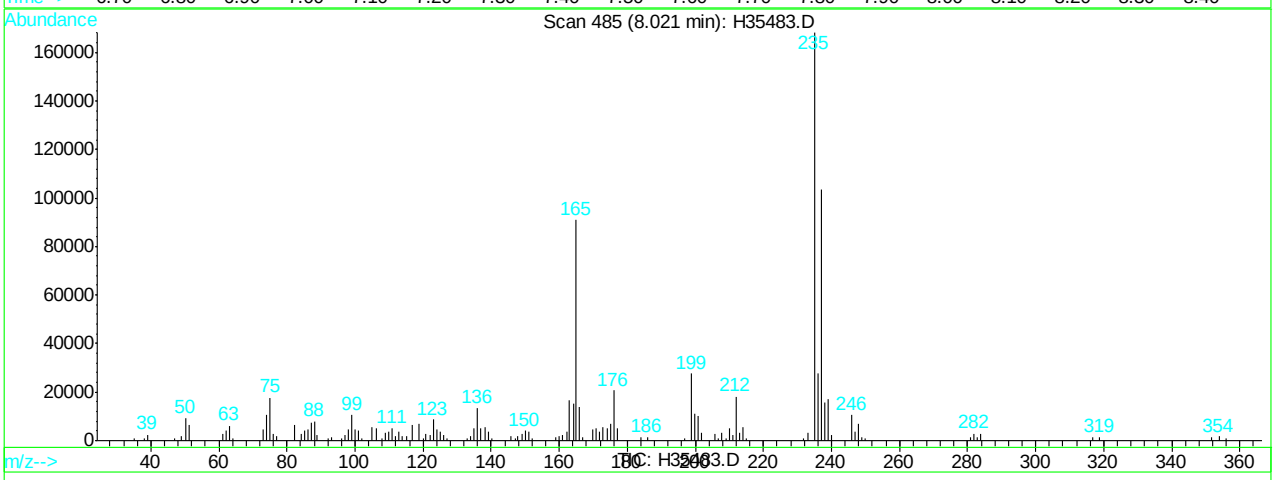
H35483.D DFTPP.M Tue Oct 20 10:44:15 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35483.D Vial: 1
Acq On : 20 Oct 2009 10:23 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 20 10:44 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

8.02min 0.00

response 1030347

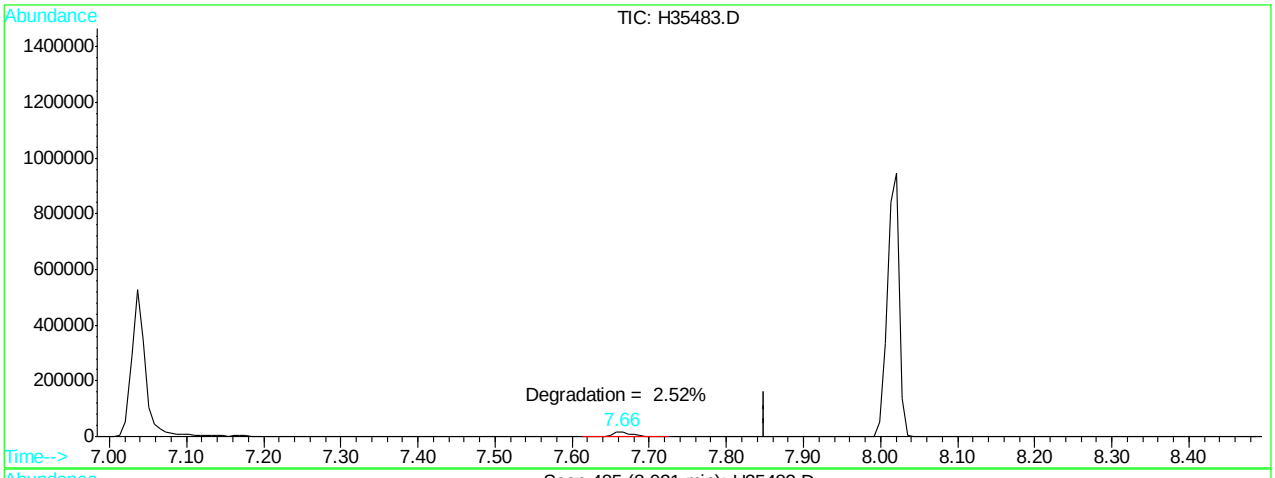
Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

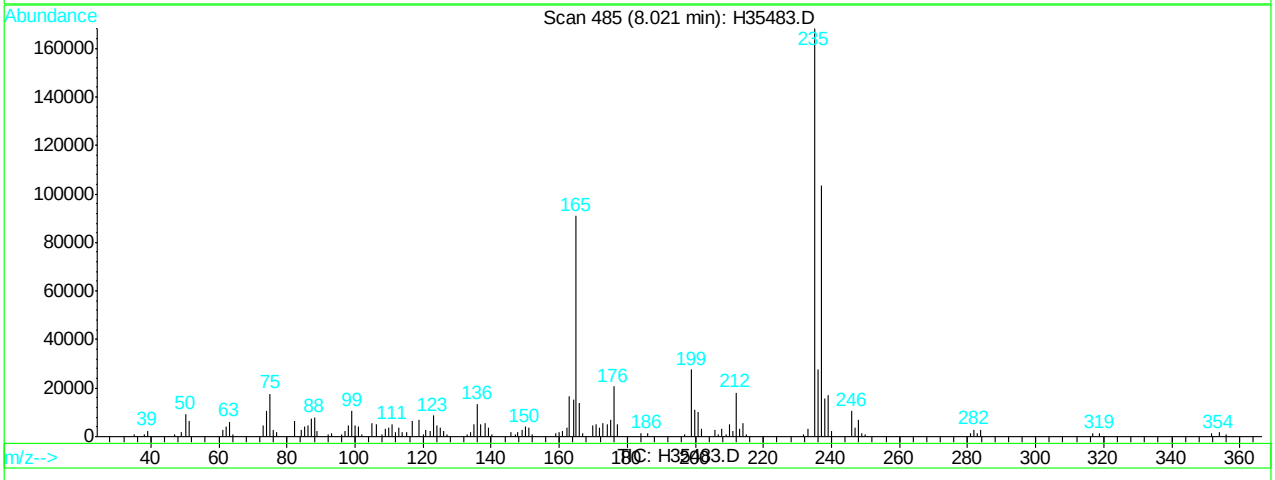
H35483.D DFTPP.M Tue Oct 20 10:44:24 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35483.D Vial: 1
Acq On : 20 Oct 2009 10:23 am Operator: sheilac
Sample : dftpp Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 20 10:44 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

8.02min 0.00

response 1030347

Ion	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

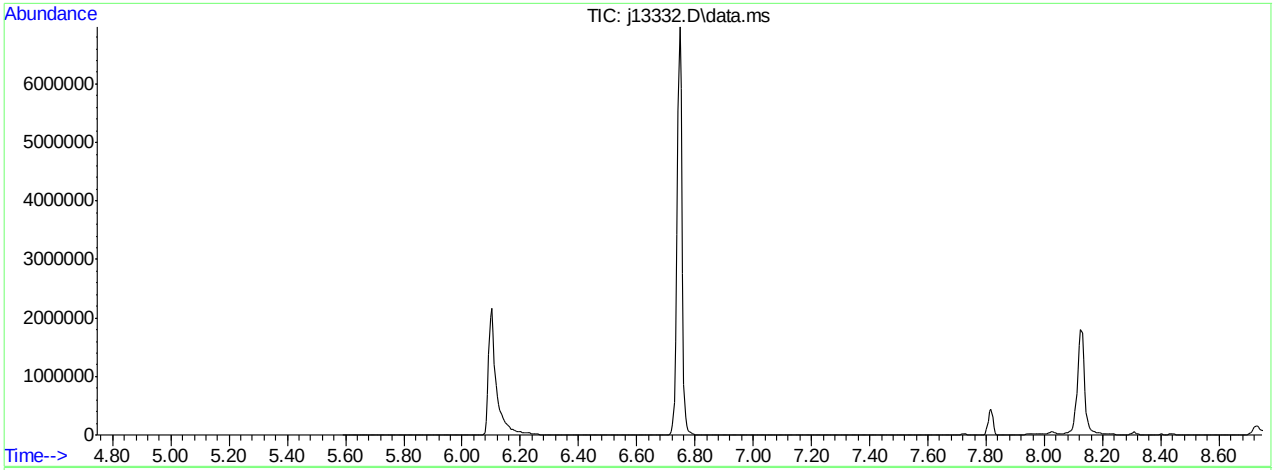
H35483.D DFTPP.M Tue Oct 20 10:44:33 2009

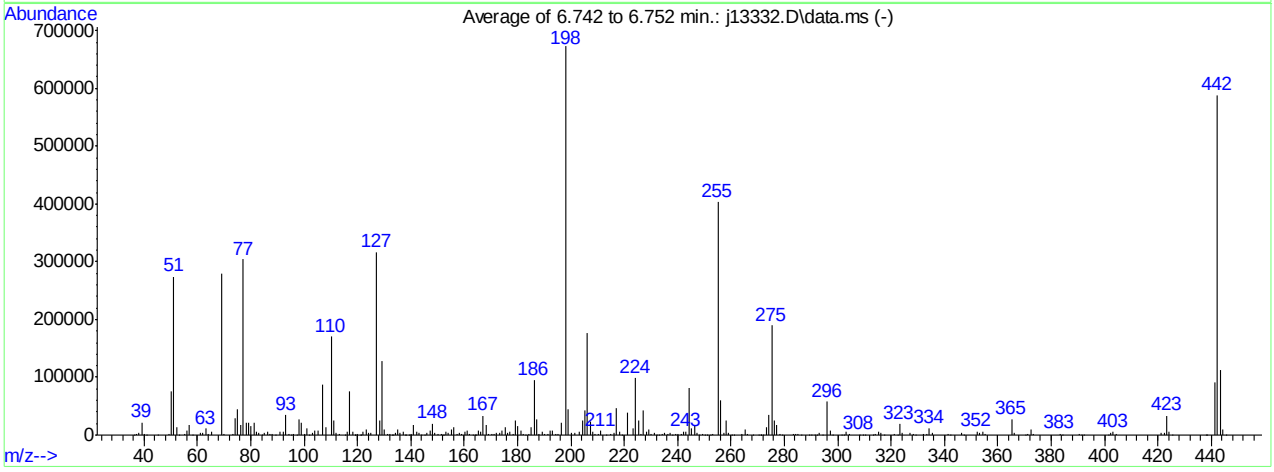
DFTPP

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

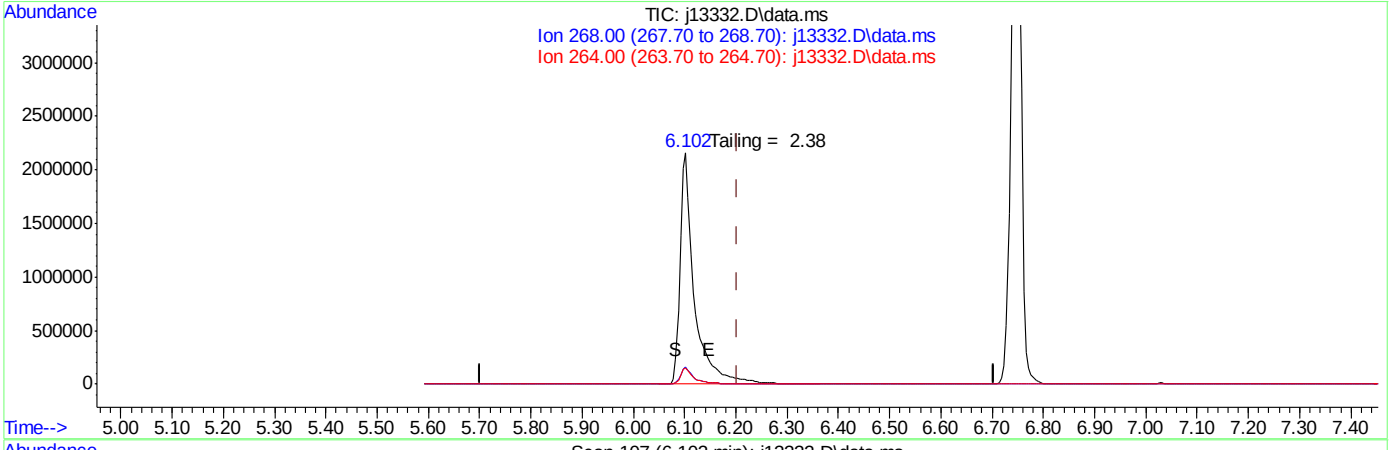
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.7	273877	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.5	279189	PASS
70	69	0.00	2	0.5	1498	PASS
127	198	40	60	47.0	316309	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	672661	PASS
199	198	5	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

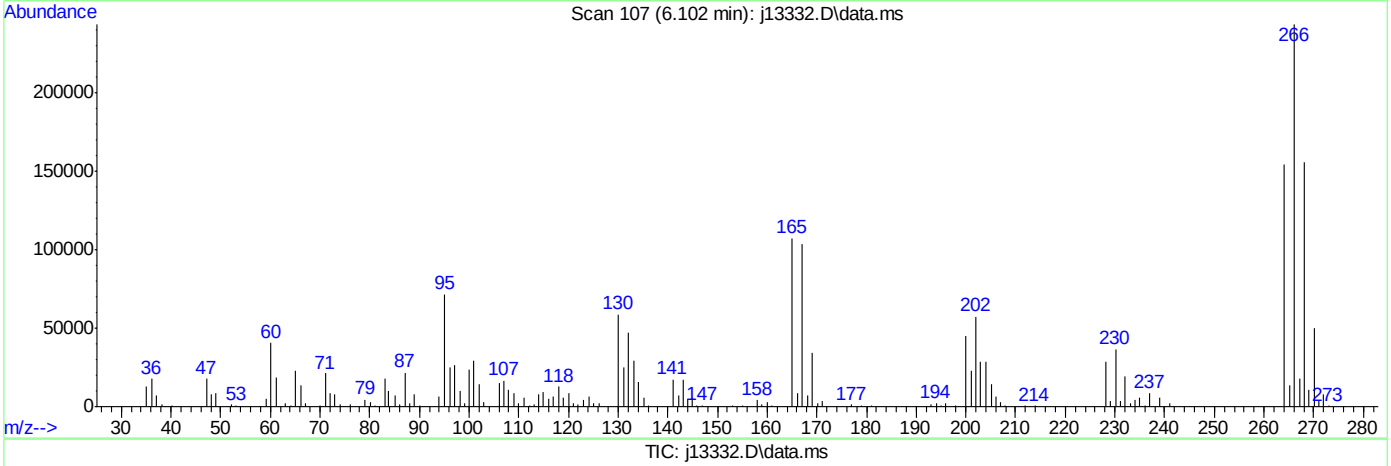
j13332.D dftpp.m Wed Sep 23 15:20:32 2009

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

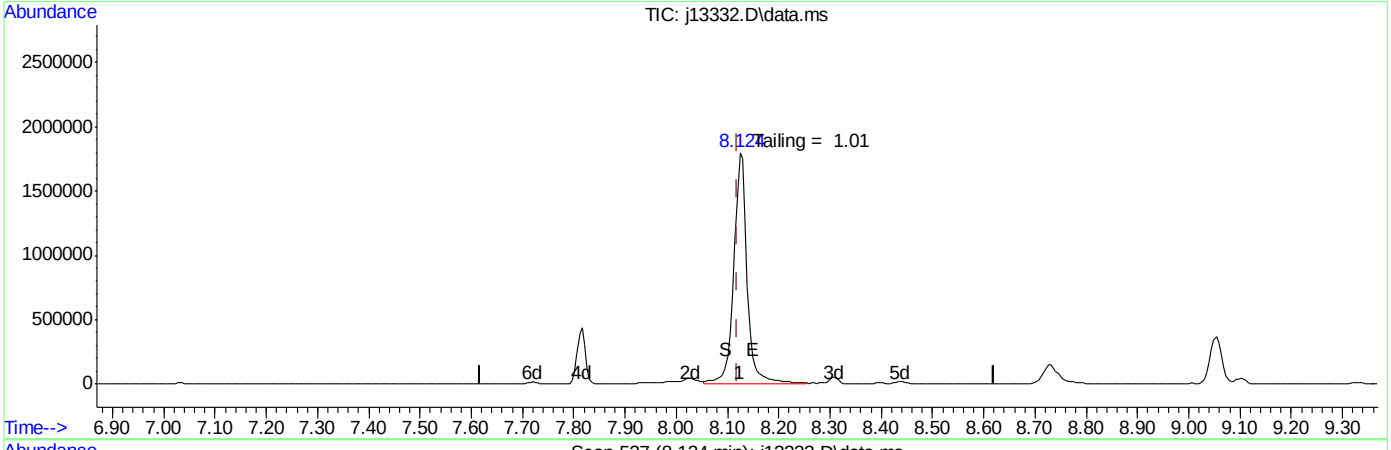
response 4154366

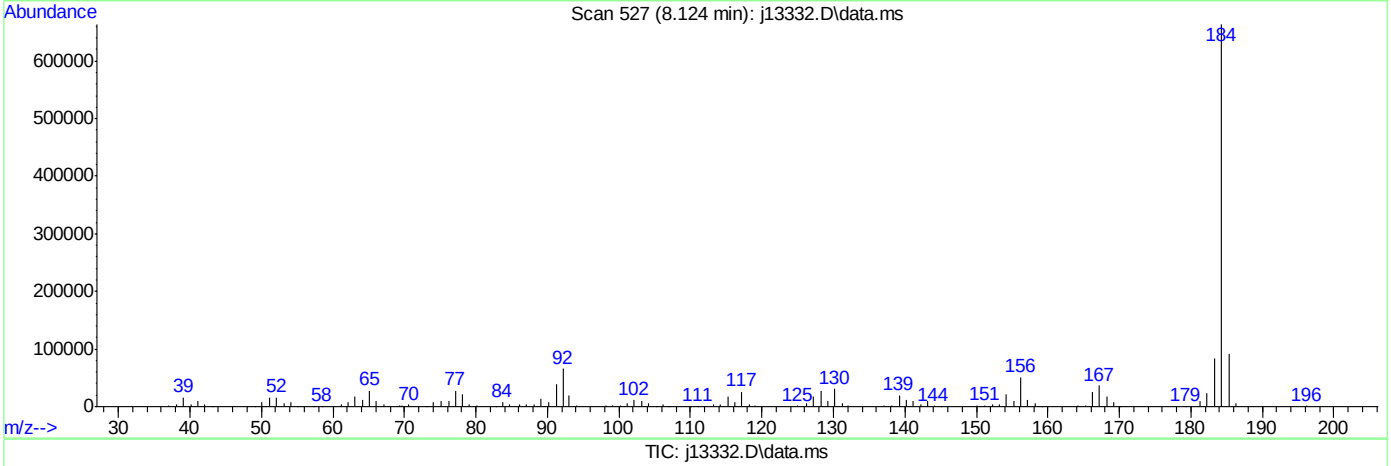
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.36#
264.00	697.70	7.20#
0.00	0.00	0.00

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

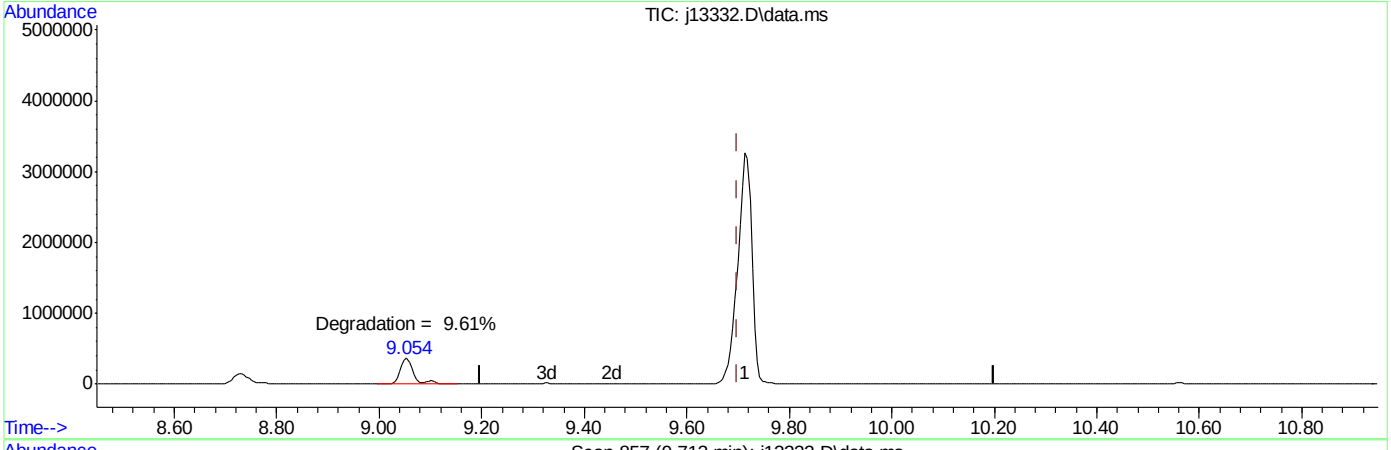
response 3263174

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

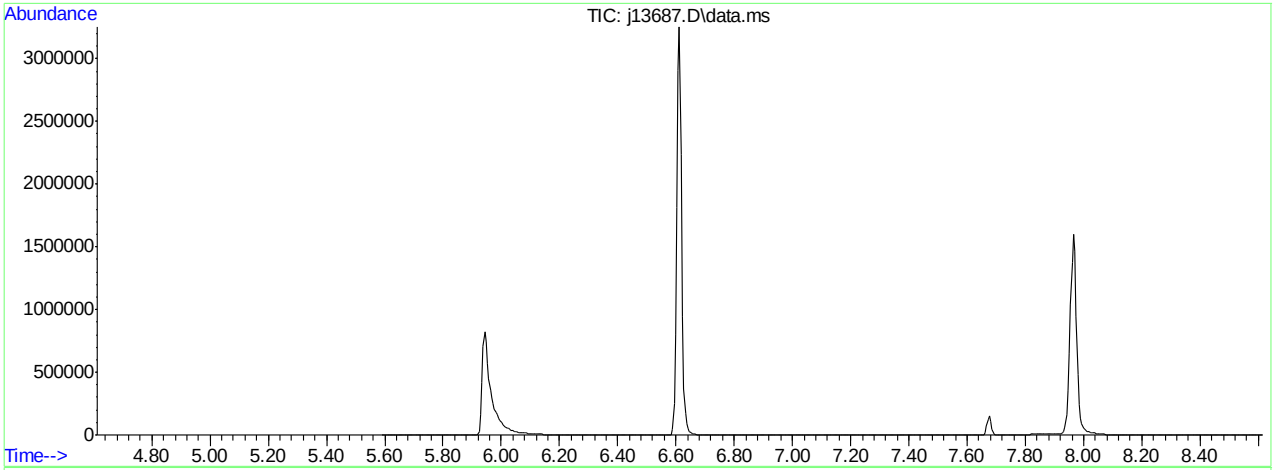
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

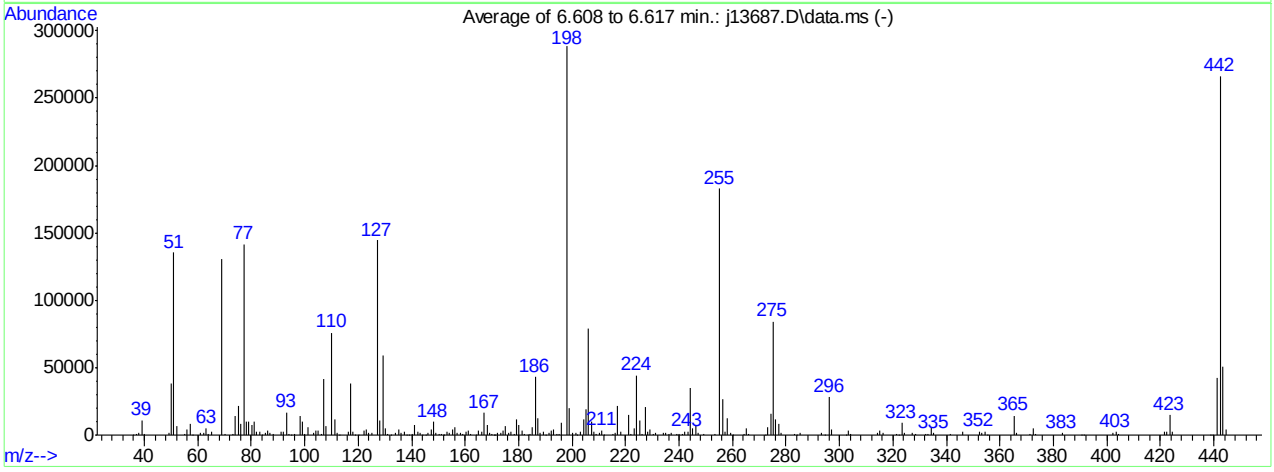
DFTPP

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

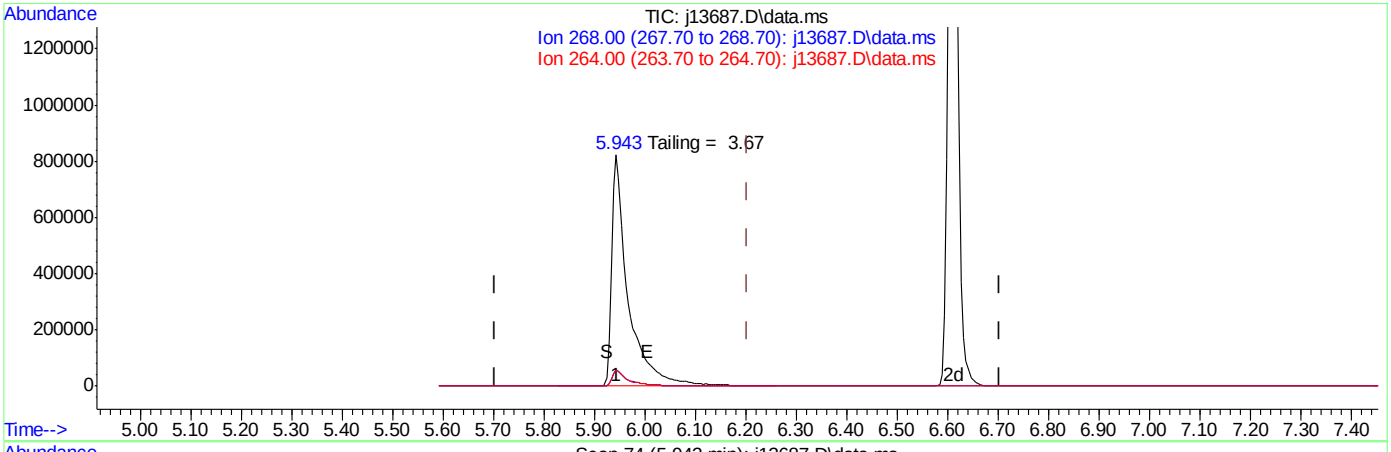
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.0	135432	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.2	130341	PASS
70	69	0.00	2	0.4	563	PASS
127	198	40	60	50.1	144448	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	288299	PASS
199	198	5	9	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

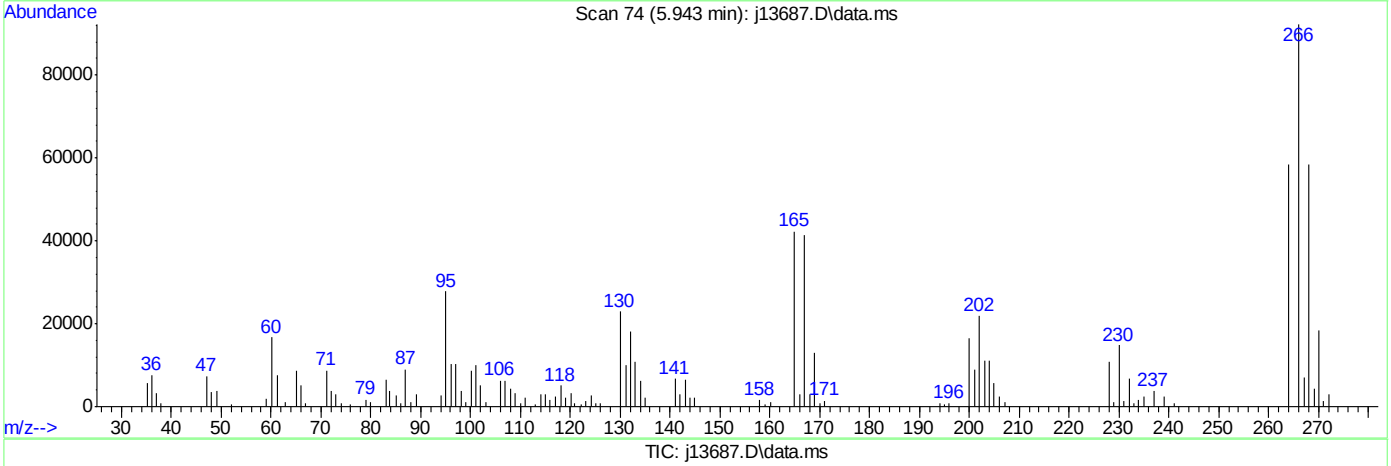
j13687.D dftpp.m Thu Oct 08 10:46:06 2009

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
```





TIC: j13687.D\data.ms

(1) Pentachlorophenol

5.943min (-0.260) 0.00

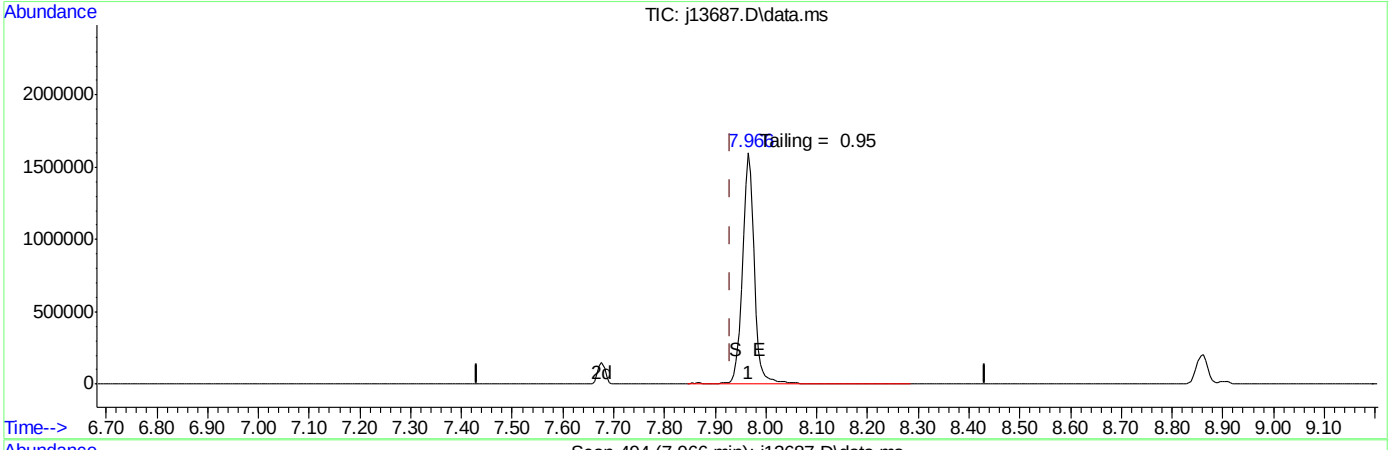
response 1866076

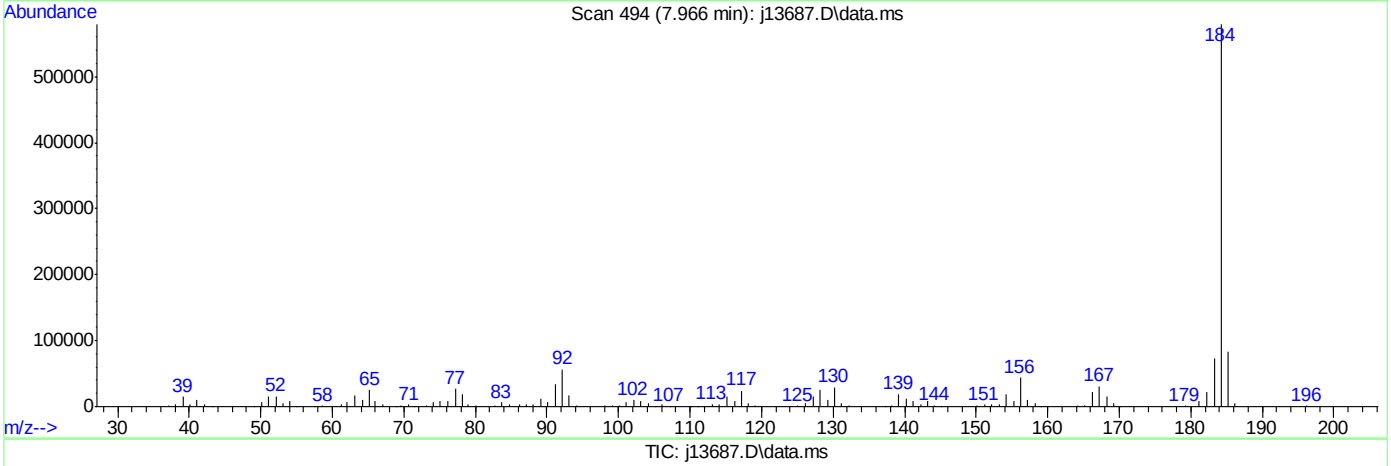
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.51#
264.00	697.70	7.44#
0.00	0.00	0.00

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

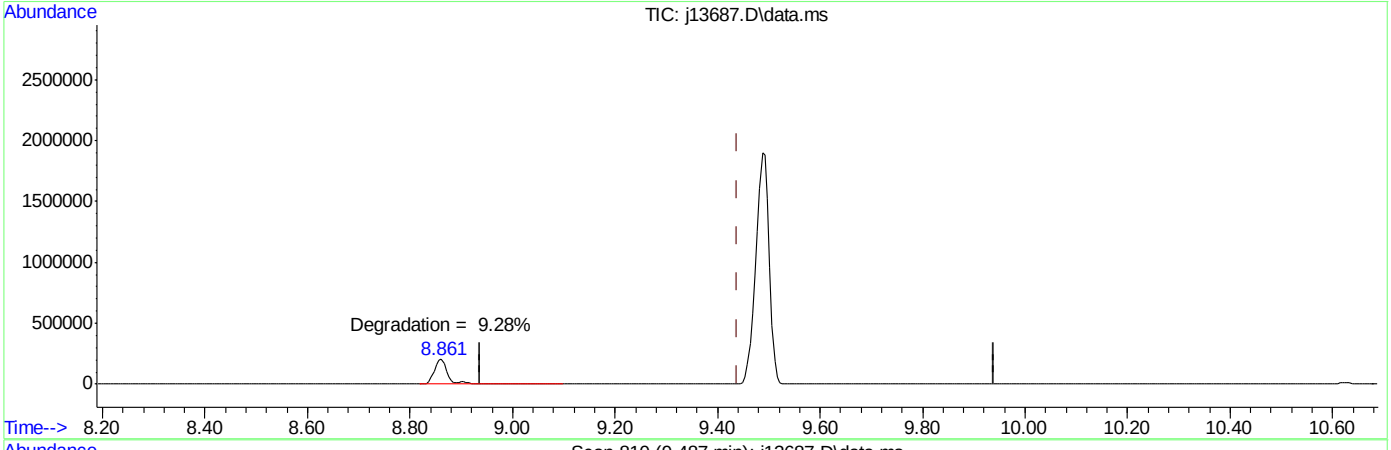
response 2598513

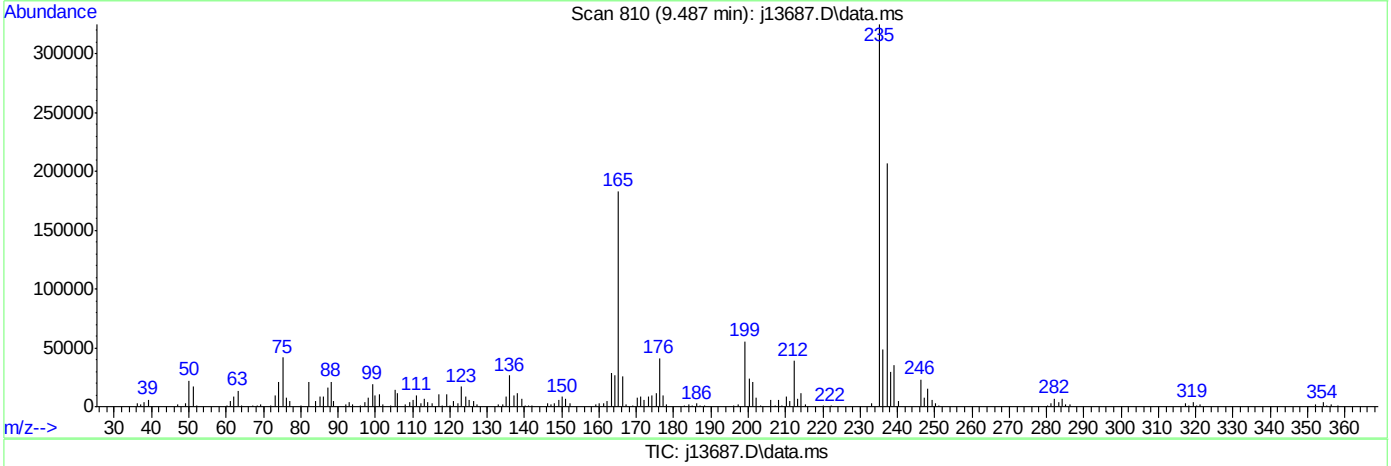
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

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

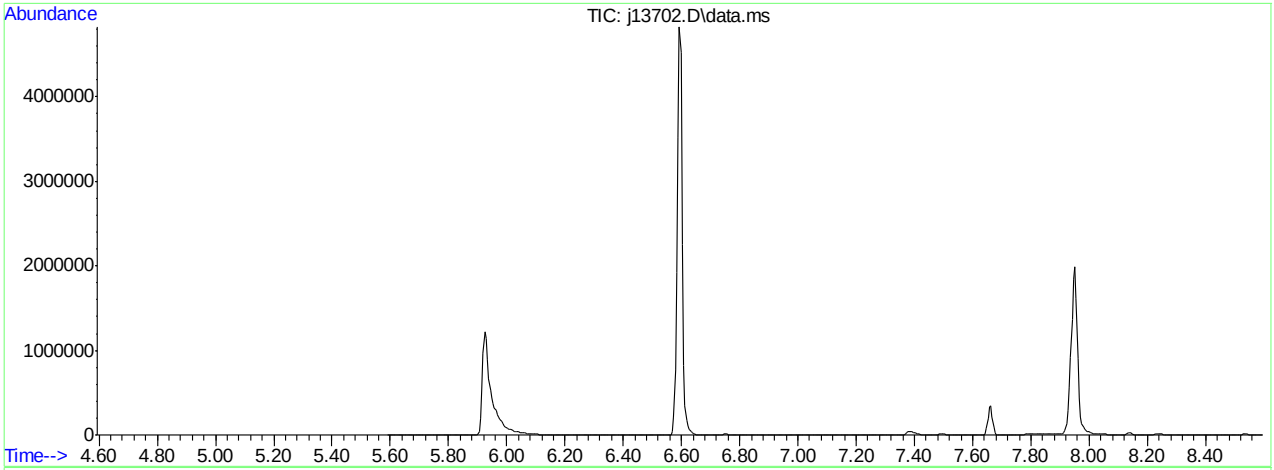
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

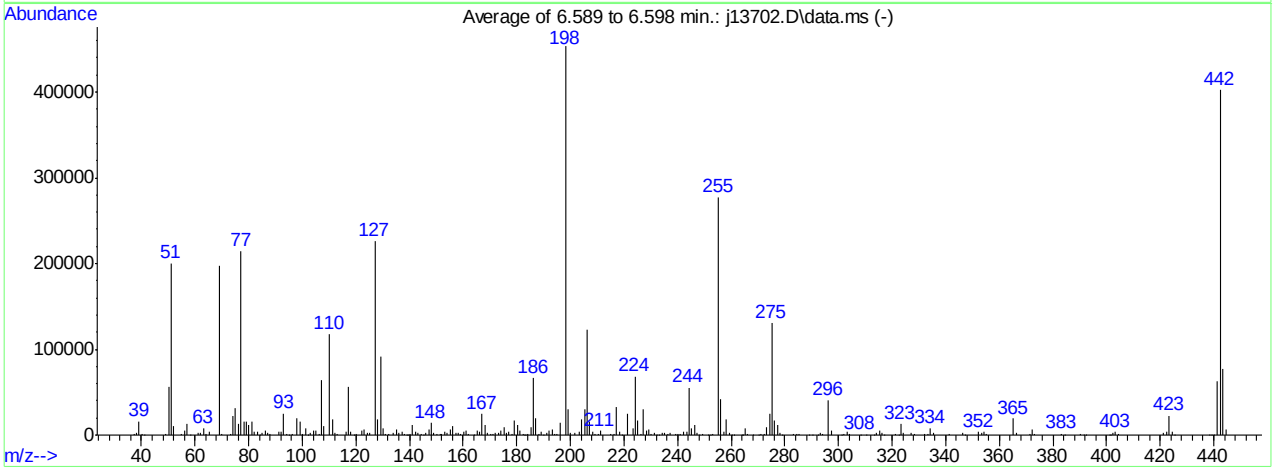
DFTPP

Data File : C:\msdchem\1\DATA\ej630\j13702.D
Acq On : 8 Oct 2009 6:30 pm
Sample : dftpp
Misc : op12949,Ej630,1000,,,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 208, 209, 210; Background Corrected with Scan 200

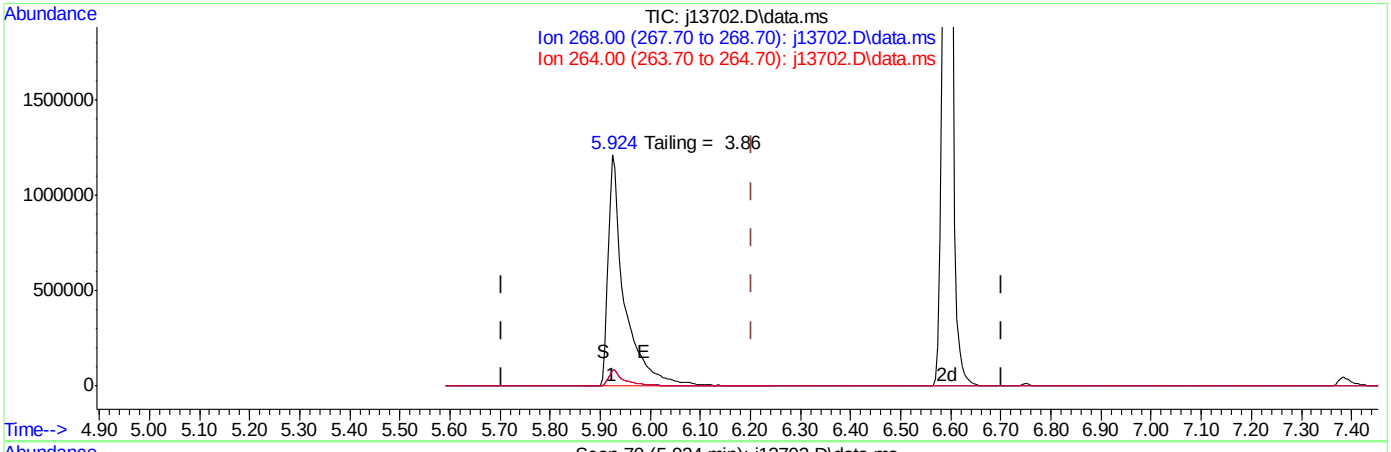
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.2	200192	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.6	197781	PASS
70	69	0.00	2	0.6	1157	PASS
127	198	40	60	50.0	226389	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	453163	PASS
199	198	5	9	6.8	30736	PASS
275	198	10	30	28.8	130483	PASS
365	198	1	100	4.3	19379	PASS
441	443	0.01	100	81.9	63435	PASS
442	198	40	100	88.7	402155	PASS
443	442	17	23	19.3	77491	PASS

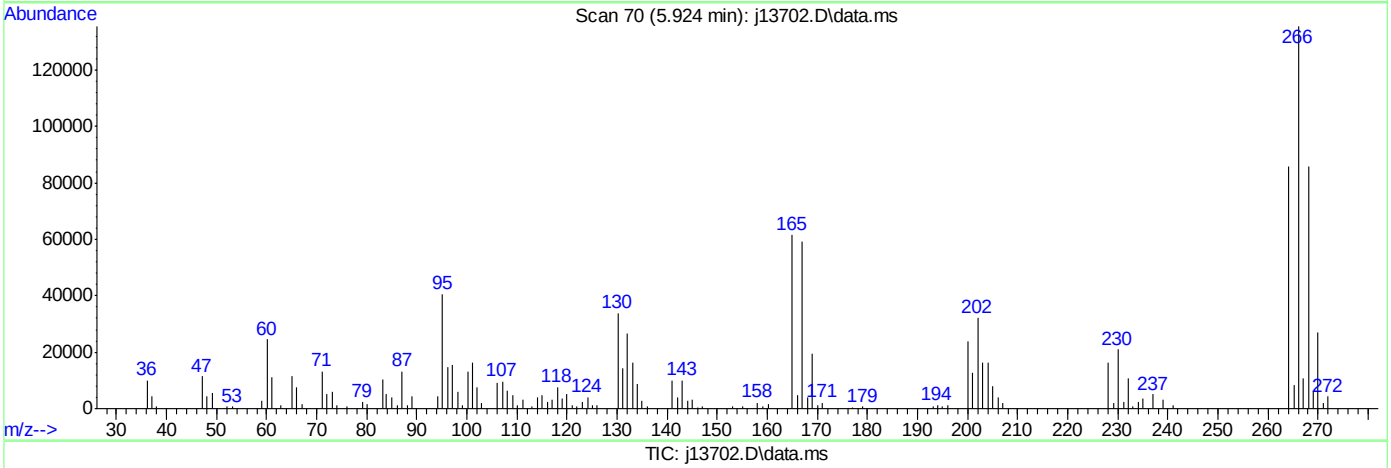
j13702.D dftpp.m Thu Oct 08 19:20:32 2009

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13702.D
Acq On    :  8 Oct 2009   6:30 pm
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej630,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 08 19:20:37 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

5.924min (-0.279) 0.00

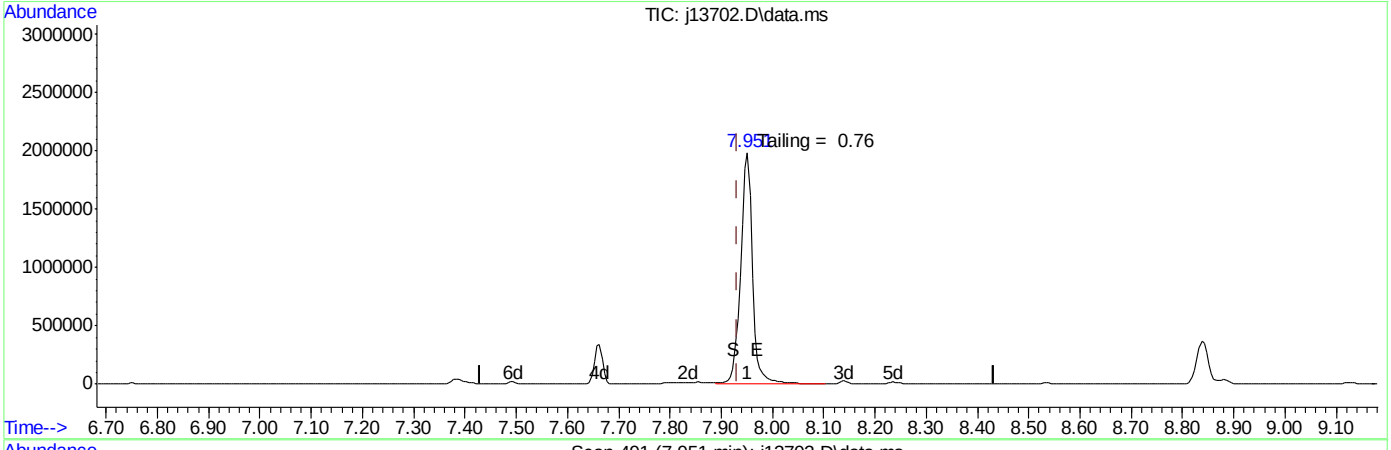
response 2740294

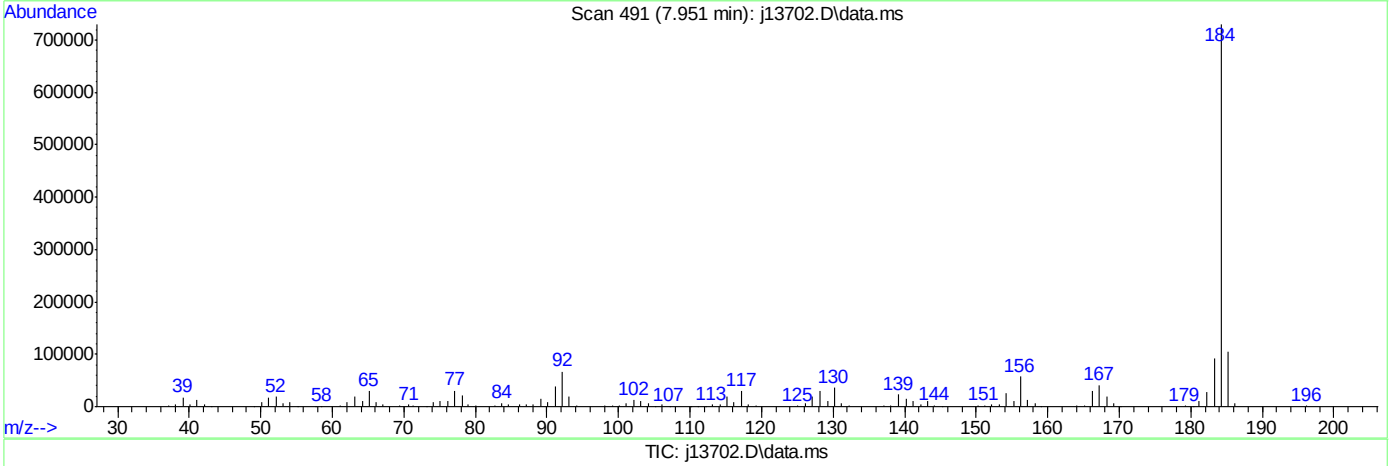
Signal	Exp%	Act%
TIC	100	100
268.00	713.00	7.40#
264.00	697.70	7.24#
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13702.D
Acq On    :  8 Oct 2009   6:30 pm
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej630,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 08 19:20:37 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: j13702.D\data.ms

(3) Benzidine

7.951min (+0.019) 0.00

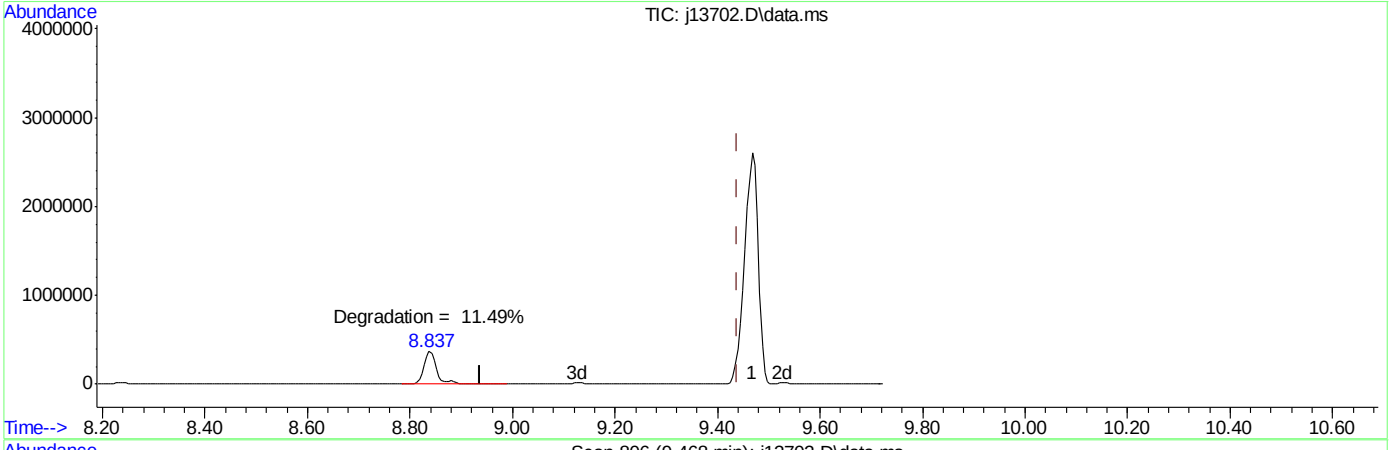
response 3160646

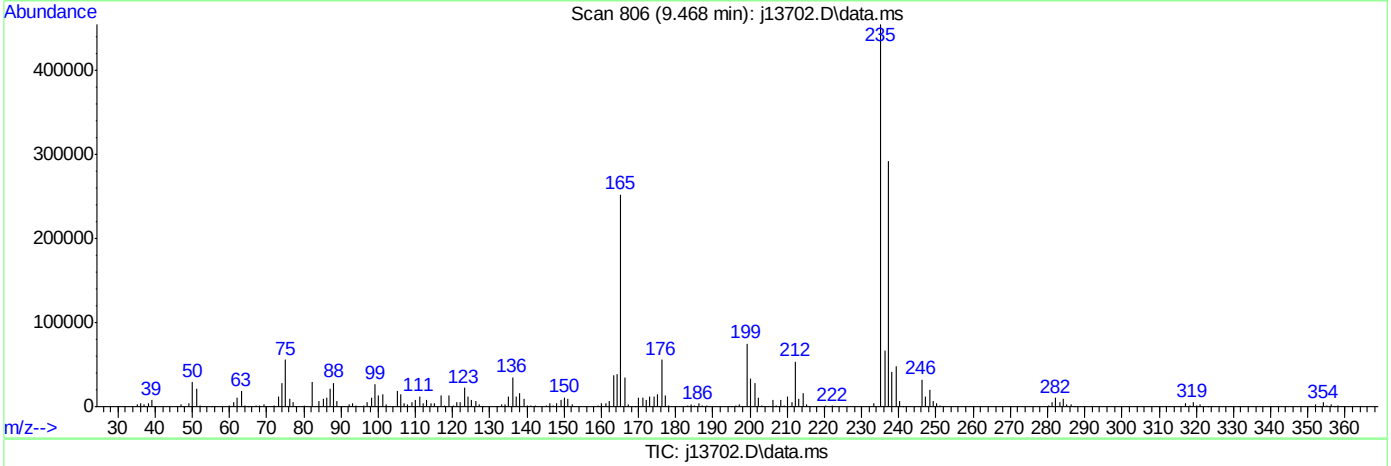
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13702.D
Acq On    :  8 Oct 2009   6:30 pm
Operator  : sheilac
Sample    : dftpp
Misc      : op12949,Ej630,1000,,,1,1,water
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Oct 08 19:20:37 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: j13702.D\data.ms

(4) DDT

9.468min (+0.029) 0.00

response 4882703

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations
APPROVED
(compounds with "m" flag)
Richard Rodriguez
10/21/09 17:36

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35485.D Vial: 3
Acq On : 20 Oct 2009 11:10 am Operator: sheilac
Sample : ic1917-1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:33 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 11:11:13 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	77139	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	45884	4.00	ppb	0.03
9) Acenaphthene-d10	9.57	164	45497	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	53809	4.00	ppb	0.02
21) Chrysene-d12	13.87	240	60190	4.00	ppb	0.00
26) Perylene-d12	16.31	264	19676	4.00	ppb	0.02

System Monitoring Compounds

5) Nitrobenzene-d5	6.58	82	15971	4.14	ppb	0.03
Spiked Amount 5.000	Range 17 - 131		Recovery	=	82.80%	
10) 2-Fluorobiphenyl	8.87	172	136670	3.47	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	69.40%	
16) 2,4,6-Tribromophenol	10.40	330	26435	8.57	ppb	0.02
Spiked Amount 10.000	Range 10 - 123		Recovery	=	85.70%	
23) Terphenyl-d14	12.65	244	34181	4.32	ppb	0.00
Spiked Amount 5.000	Range 10 - 160		Recovery	=	86.40%	

Target Compounds

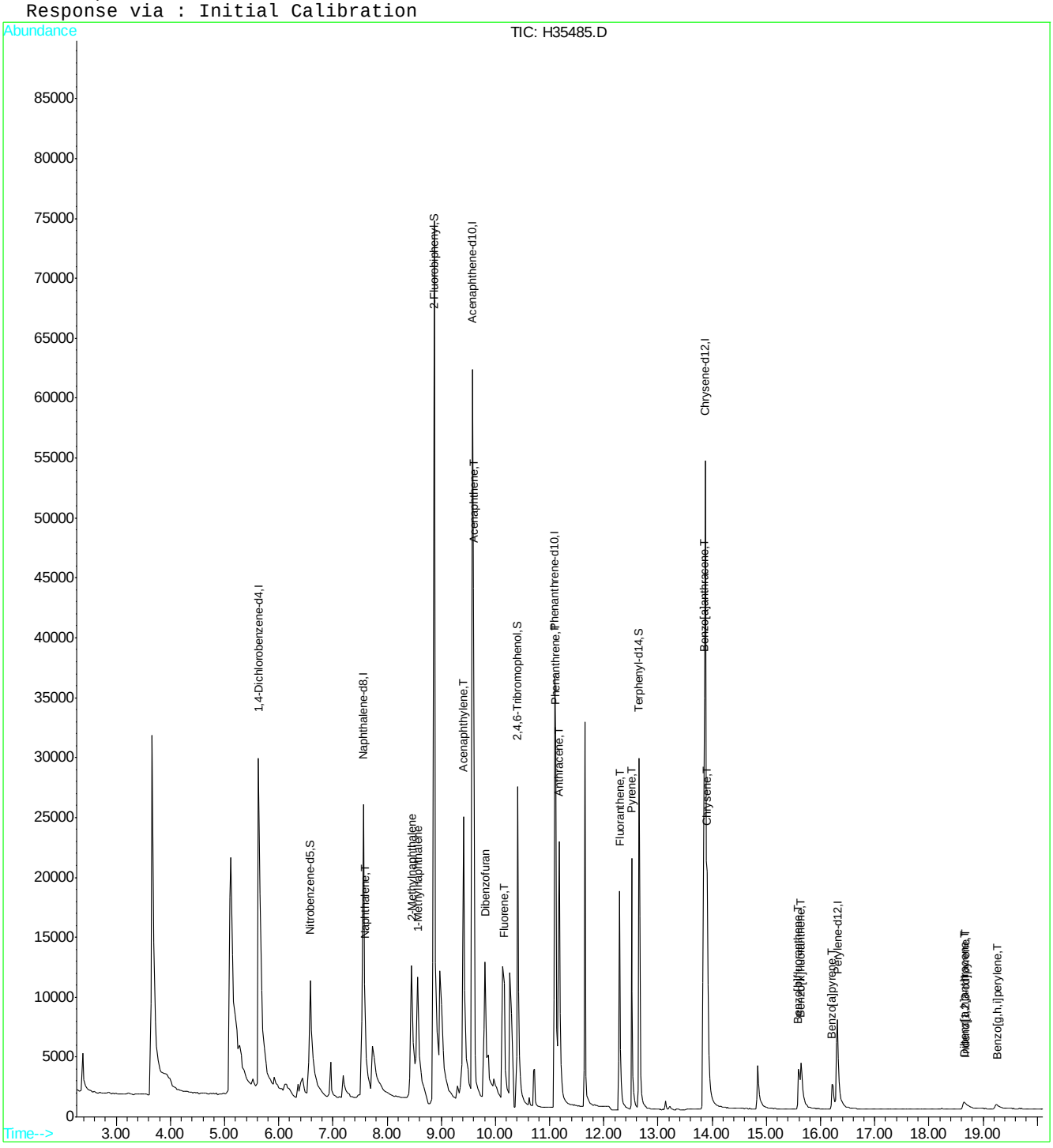
							Qvalue
6) Naphthalene	7.59	128	18609	0.72	ppb	#	86
7) 2-Methylnaphthalene	8.45	142	23285	1.57	ppb	#	100
8) 1-Methylnaphthalene	8.56	142	23423	0.78	ppb	#	57
11) Acenaphthylene	9.41	152	39521	0.57	ppb	#	87
12) Acenaphthene	9.60	153	27240	0.89	ppb		79
13) Dibenzofuran	9.81	168	23455	0.36	ppb	#	61
14) Fluorene	10.16	166	15659	0.34	ppb		83
18) Phenanthrene	11.11	178	30569	1.05	ppb	#	81
19) Anthracene	11.17	178	30902	0.85	ppb	#	88
20) Fluoranthene	12.29	202	29118m	0.86	ppb		
22) Pyrene	12.51	202	34089m	1.06	ppb		
24) Benzo[a]anthracene	13.85	228	22019m	1.03	ppb		
25) Chrysene	13.90	228	21150	0.89	ppb		90
27) Benzo[b]fluoranthene	15.59	252	7790	1.04	ppb		96
28) Benzo[k]fluoranthene	15.64	252	10261m	0.93	ppb		
29) Benzo[a]pyrene	16.21	252	6839	1.06	ppb		93
30) Indeno[1,2,3-cd]pyrene	18.67	276	2062	0.88	ppb		98
31) Dibenz[a,h]anthracene	18.65	278	1165	0.76	ppb		89
32) Benzo[g,h,i]perylene	19.25	276	1605	0.88	ppb		94

(#) = qualifier out of range (m) = manual integration
H35485.D H10209SP.M Tue Oct 20 14:43:27 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35485.D Vial: 3
Acq On : 20 Oct 2009 11:10 am Operator: sheilac
Sample : ic1917-1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:33 2009 Quant Results File: H10209SP.RES

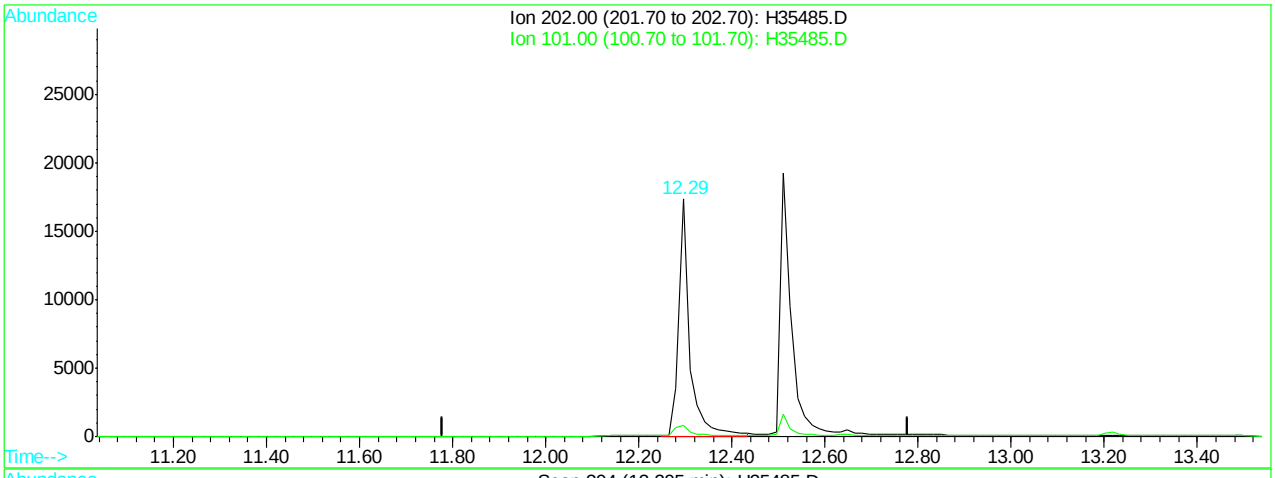
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Initial Calibration

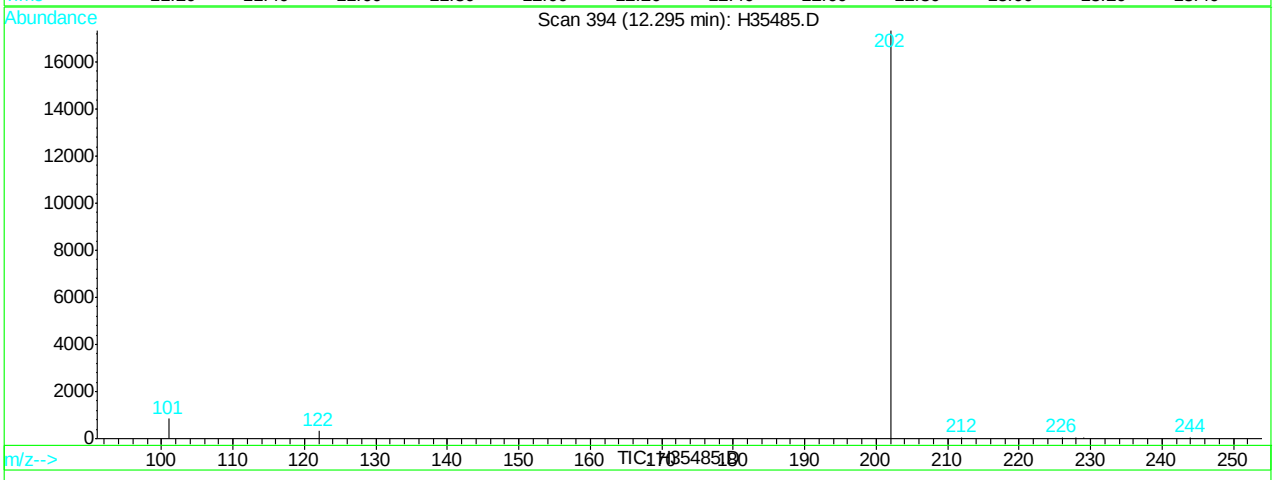


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35485.D Vial: 3
Acq On : 20 Oct 2009 11:10 am Operator: sheilac
Sample : ic1917-1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:33 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(20) Fluoranthene (T)

12.29min 0.86ppb m

response 29118

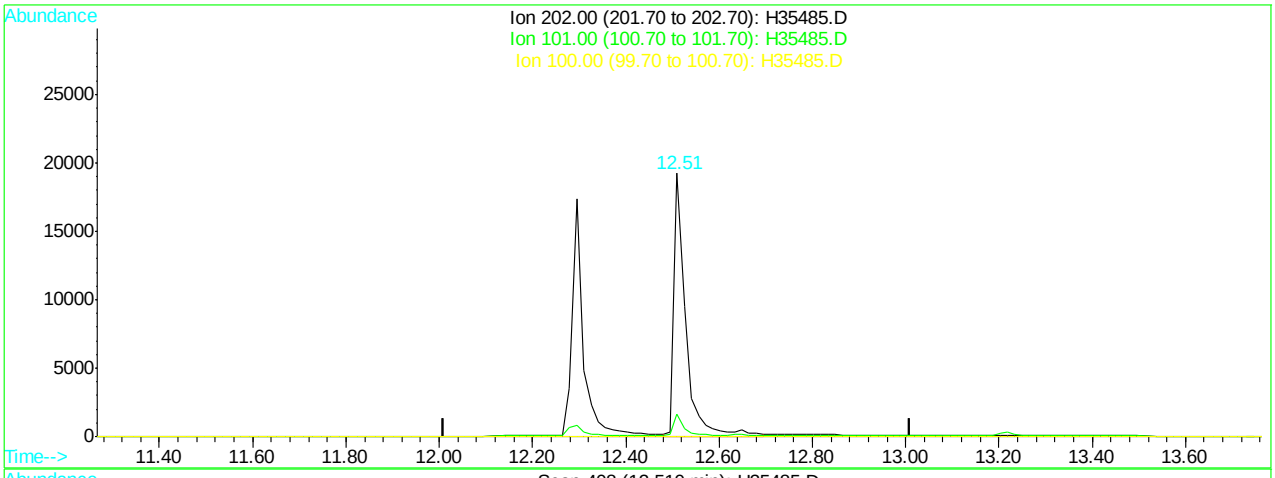
Ion	Exp%	Act%
202.00	100	100
101.00	10.40	4.85#
0.00	0.00	0.00
0.00	0.00	0.00

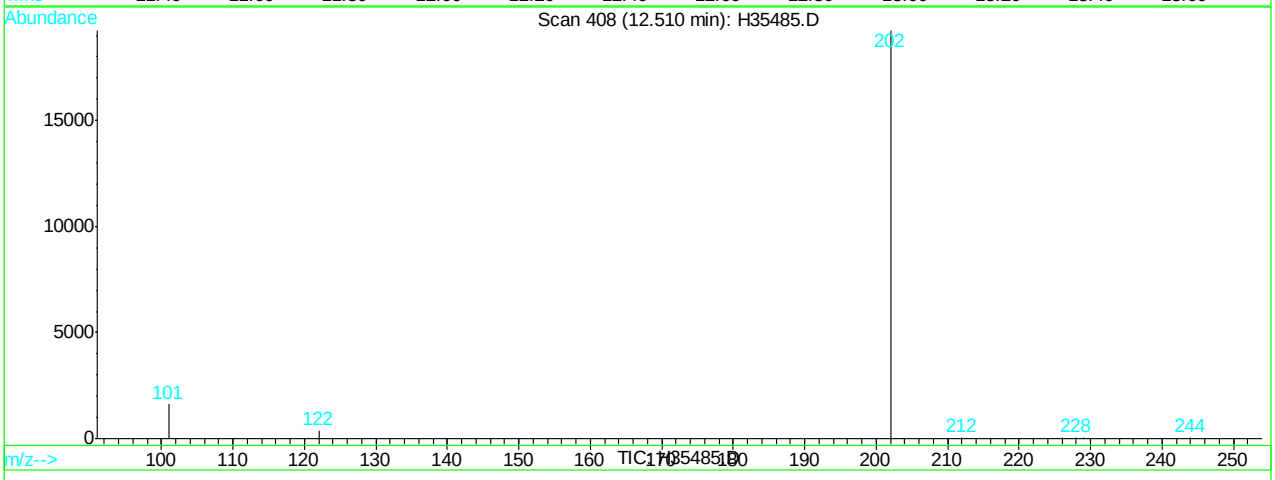
H35485.D H10209SP.M Tue Oct 20 14:44:12 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35485.D Vial: 3
Acq On : 20 Oct 2009 11:10 am Operator: sheilac
Sample : ic1917-1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:33 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(22) Pyrene (T)

12.51min 1.06ppb m

response 34089

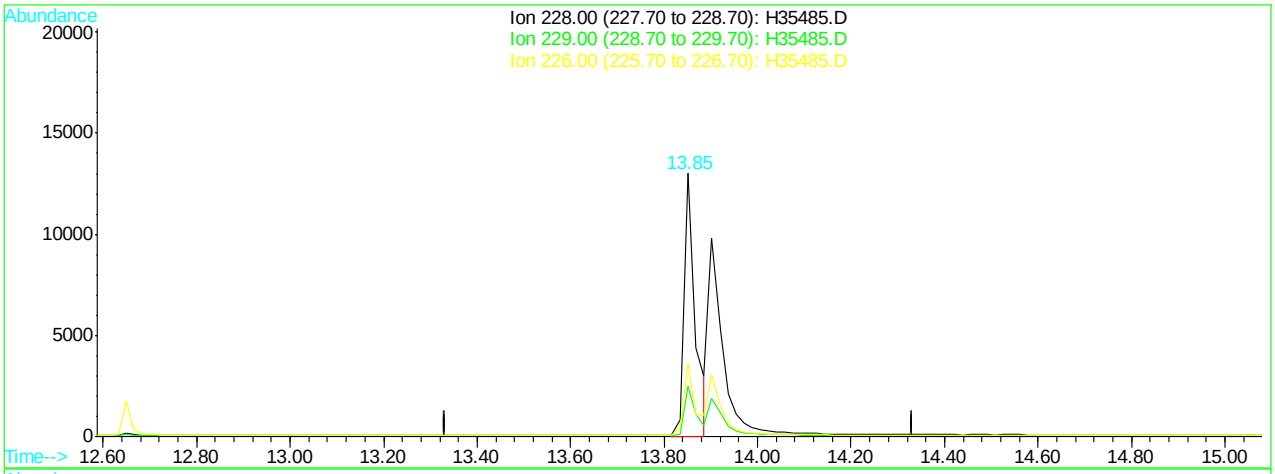
Ion	Exp%	Act%
202.00	100	100
101.00	4.30	8.45#
100.00	0.00	0.00
0.00	0.00	0.00

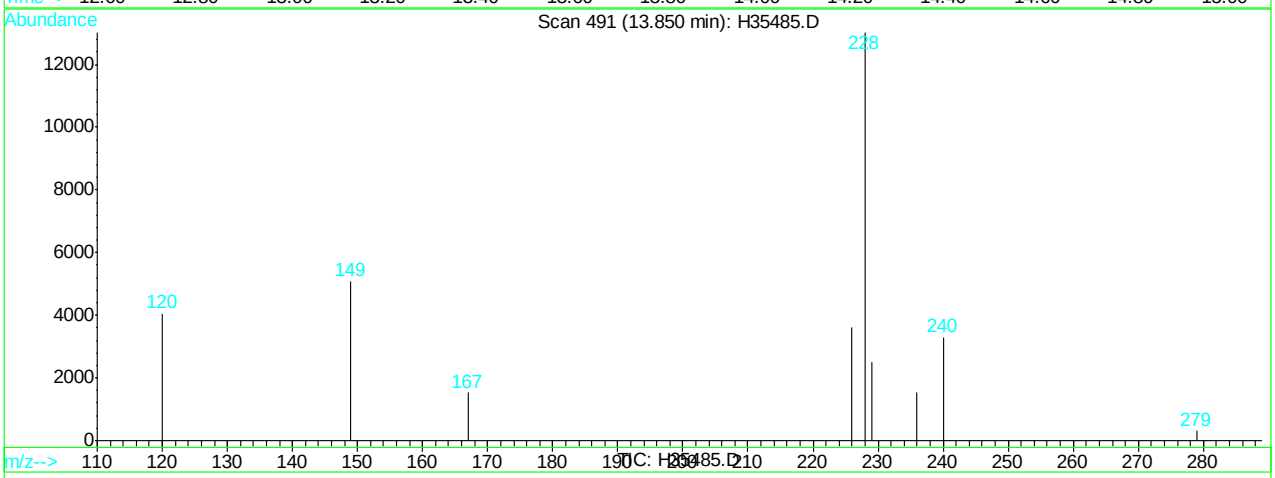
H35485.D H10209SP.M Tue Oct 20 14:44:15 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35485.D Vial: 3
Acq On : 20 Oct 2009 11:10 am Operator: sheilac
Sample : ic1917-1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:33 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(24) Benzo[a]anthracene (T)

13.85min 1.03ppb m

response 22019

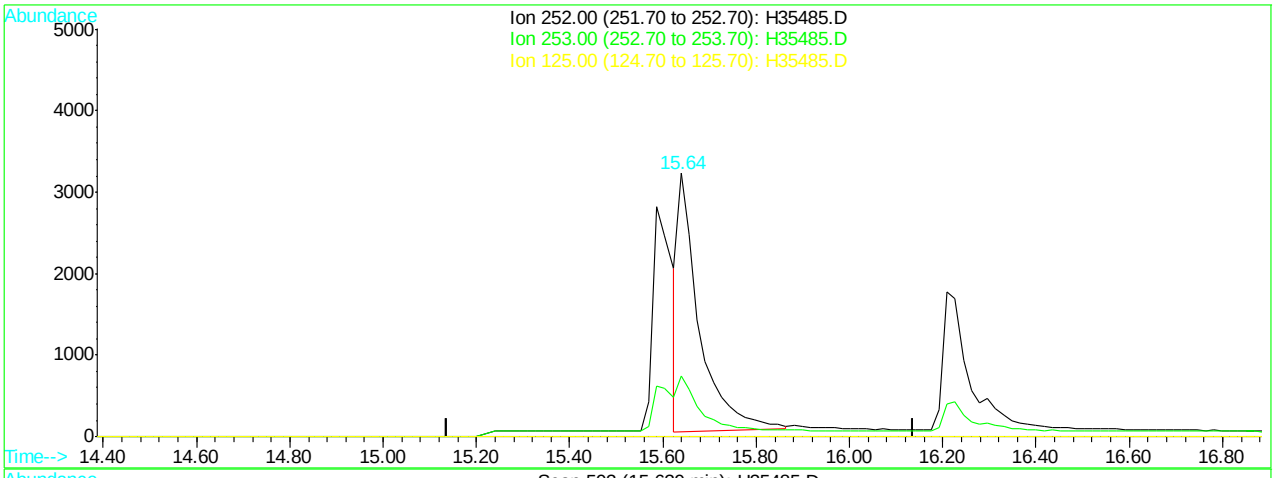
Ion	Exp%	Act%
228.00	100	100
229.00	14.60	19.37#
226.00	34.80	27.85
0.00	0.00	0.00

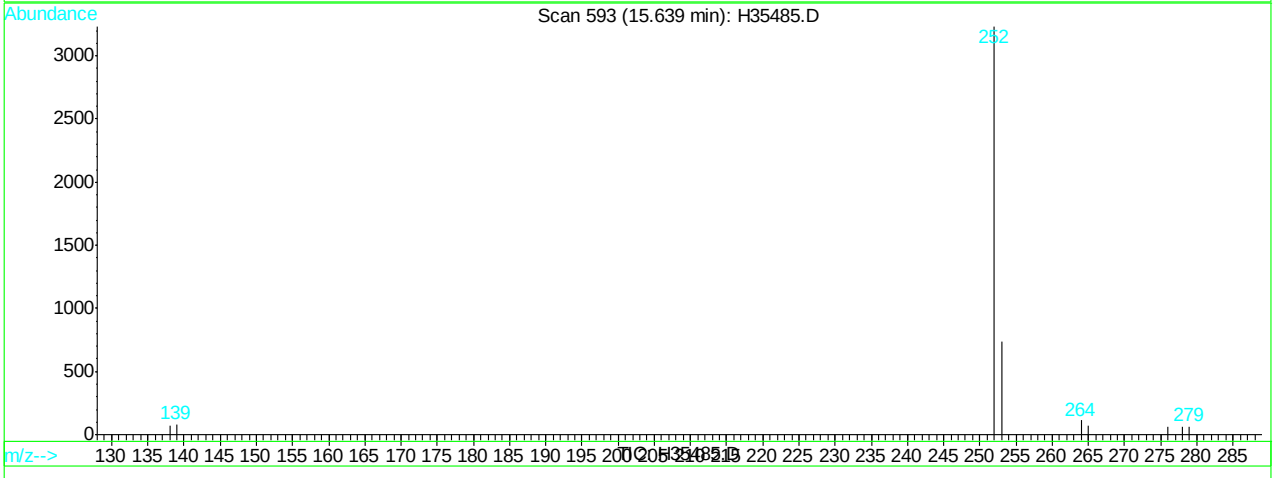
H35485.D H10209SP.M Tue Oct 20 14:44:19 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35485.D Vial: 3
Acq On : 20 Oct 2009 11:10 am Operator: sheilac
Sample : ic1917-1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:33 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.64min 0.93ppb m

response 10261

Ion	Exp%	Act%
252.00	100	100
253.00	23.30	22.90
125.00	0.00	0.00
0.00	0.00	0.00

H35485.D H10209SP.M Tue Oct 20 14:44:26 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/21/09 17:36

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35486.D Vial: 4
Acq On : 20 Oct 2009 11:34 am Operator: sheilac
Sample : ic1917-0.1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:34 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 11:11:13 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	70114	4.00	ppb	0.02
4) Naphthalene-d8	7.56	136	53991	4.00	ppb	0.03
9) Acenaphthene-d10	9.57	164	47206	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	61171	4.00	ppb	0.02
21) Chrysene-d12	13.87	240	55386	4.00	ppb	0.00
26) Perylene-d12	16.31	264	15280	4.00	ppb	0.02

System Monitoring Compounds						
5) Nitrobenzene-d5	6.78	82	1467	0.32	ppb	0.23
Spiked Amount 5.000	Range 17 - 131		Recovery = 6.40%#			
10) 2-Fluorobiphenyl	8.90	172	15695	0.38	ppb	0.03
Spiked Amount 5.000	Range 15 - 137		Recovery = 7.60%#			
16) 2,4,6-Tribromophenol	10.45	330	3504	1.00	ppb	0.07
Spiked Amount 10.000	Range 10 - 123		Recovery = 10.00%			
23) Terphenyl-d14	12.66	244	3695	0.51	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery = 10.20%			

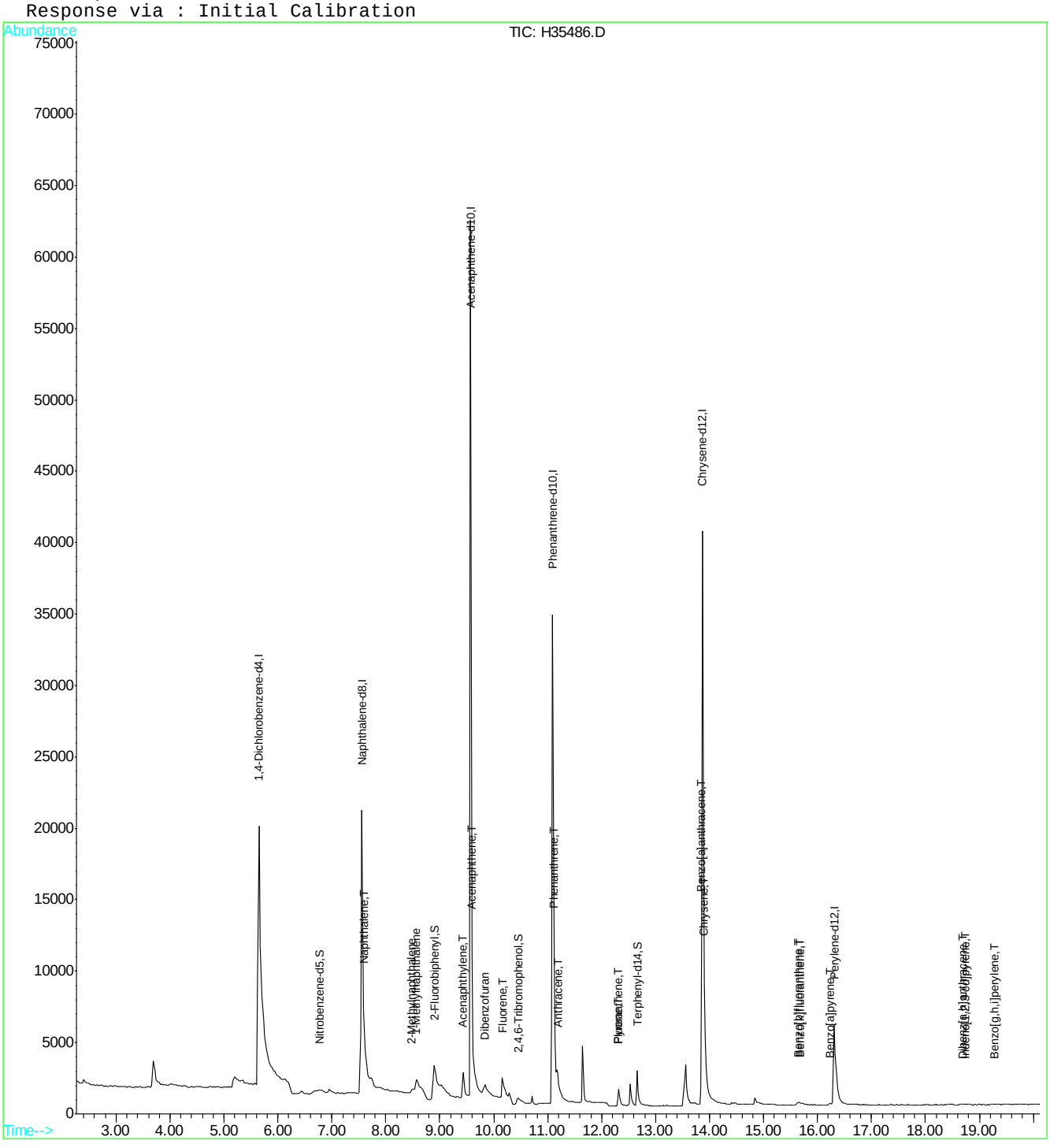
Target Compounds						Qvalue
6) Naphthalene	7.59	128	2066	0.07	ppb #	86
7) 2-Methylnaphthalene	8.48	142	1120m	0.06	ppb	
8) 1-Methylnaphthalene	8.57	142	4140m	0.12	ppb	
11) Acenaphthylene	9.43	152	3174	0.04	ppb	96
12) Acenaphthene	9.59	153	3114	0.10	ppb #	69
13) Dibenzofuran	9.84	168	2921	0.04	ppb #	72
14) Fluorene	10.16	166	2525	0.05	ppb	91
18) Phenanthrene	11.11	178	3783	0.11	ppb #	84
19) Anthracene	11.19	178	4080	0.10	ppb	90
20) Fluoranthene	12.31	202	3370	0.09	ppb #	85
22) Pyrene	12.31	202	3370	0.11	ppb	98
24) Benzo[a]anthracene	13.85	228	2030	0.10	ppb	99
25) Chrysene	13.90	228	2480m	0.11	ppb	
27) Benzo[b]fluoranthene	15.64	252	326m	0.06	ppb	
28) Benzo[k]fluoranthene	15.67	252	771m	0.09	ppb	
29) Benzo[a]pyrene	16.23	252	310	0.06	ppb	95
30) Indeno[1,2,3-cd]pyrene	18.74	276	78	0.04	ppb #	48
31) Dibenz[a,h]anthracene	18.68	278	58	0.05	ppb #	22
32) Benzo[g,h,i]perylene	19.27	276	57	0.04	ppb	83

(#) = qualifier out of range (m) = manual integration
H35486.D H10209SP.M Tue Oct 20 14:44:33 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35486.D Vial: 4
Acq On : 20 Oct 2009 11:34 am Operator: sheilac
Sample : ic1917-0.1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:34 2009 Quant Results File: H10209SP.RES

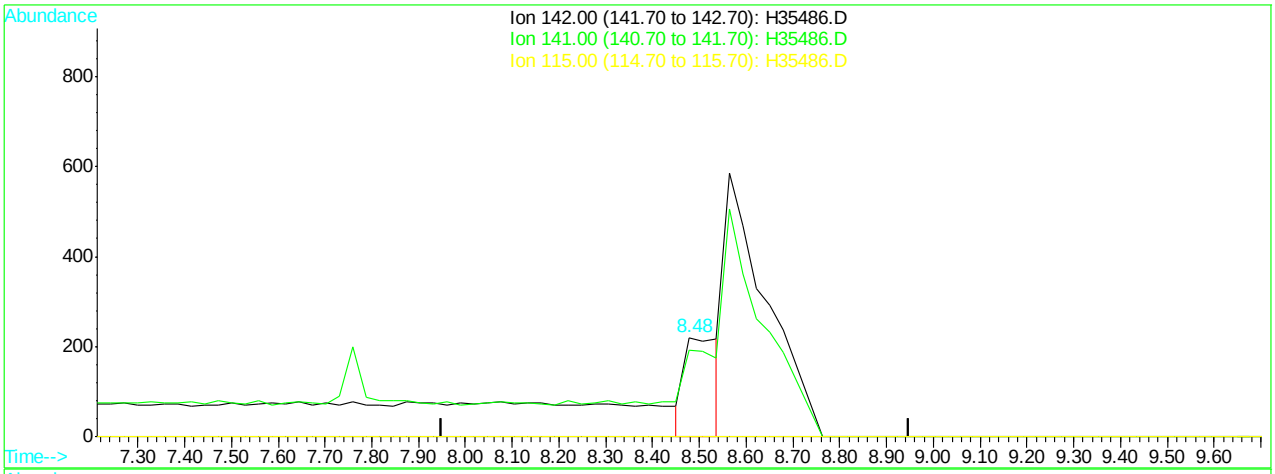
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Initial Calibration

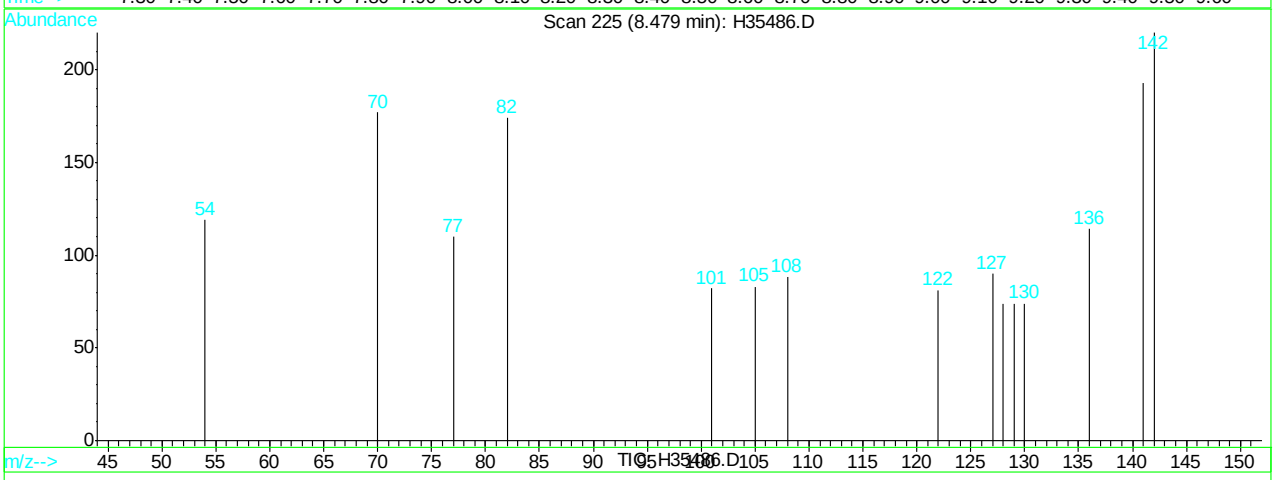


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35486.D Vial: 4
Acq On : 20 Oct 2009 11:34 am Operator: sheilac
Sample : ic1917-0.1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.48min 0.06ppb m

response 1120

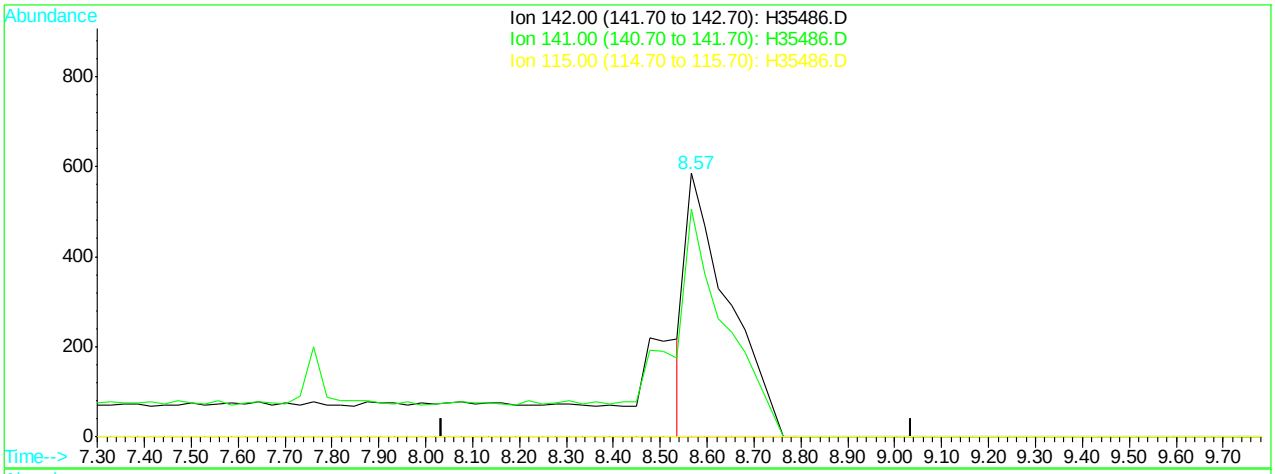
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	400.45#
115.00	0.00	0.00
0.00	0.00	0.00

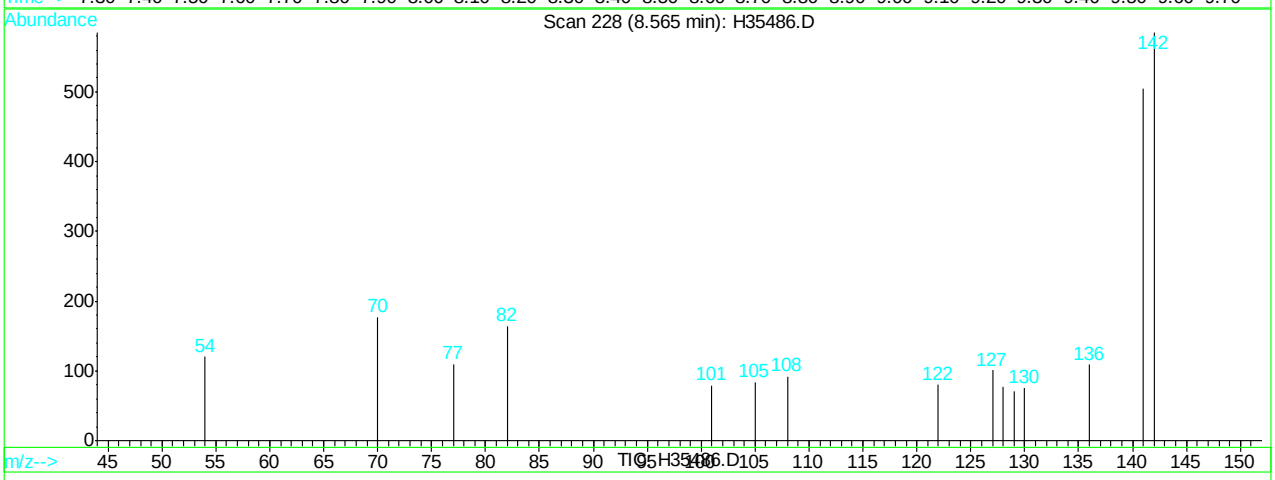
H35486.D H10209SP.M Tue Oct 20 14:44:54 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35486.D Vial: 4
Acq On : 20 Oct 2009 11:34 am Operator: sheilac
Sample : ic1917-0.1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.57min 0.12ppb m

response 4140

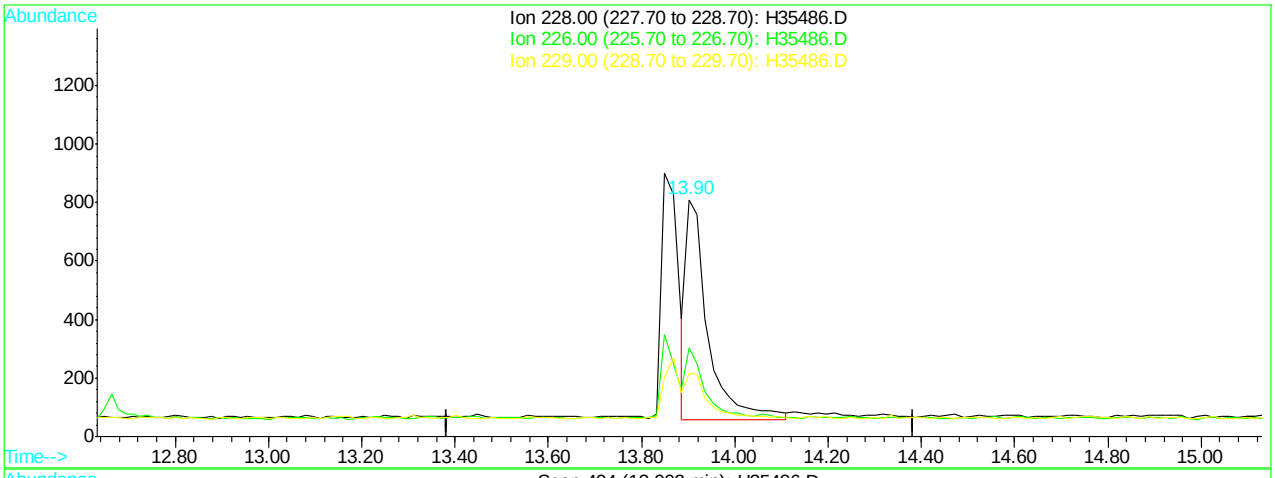
Ion	Exp%	Act%
142.00	100	100
141.00	134.10	108.33
115.00	0.00	0.00
0.00	0.00	0.00

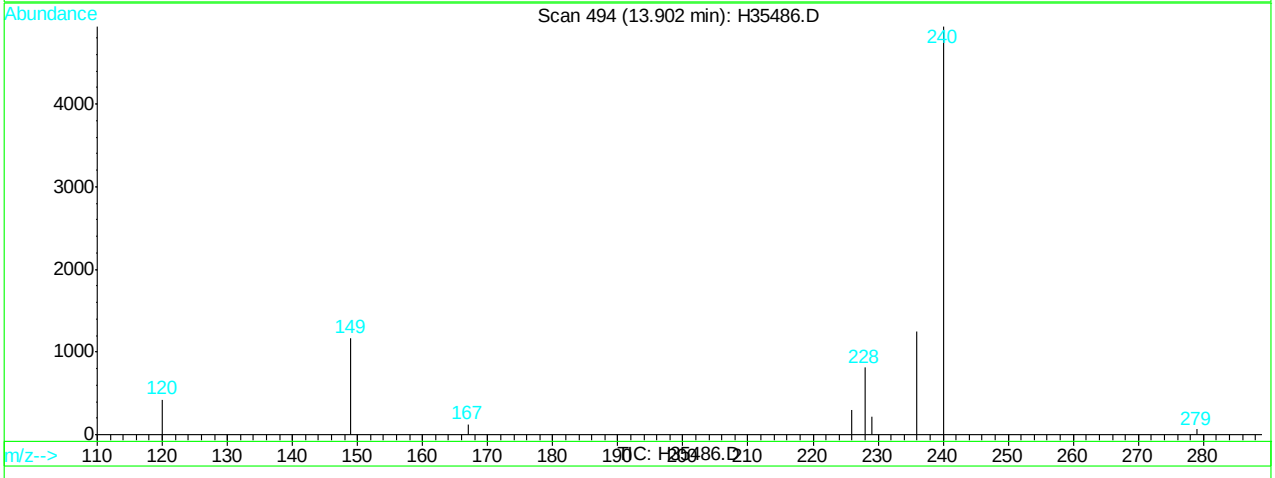
H35486.D H10209SP.M Tue Oct 20 14:44:57 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35486.D Vial: 4
Acq On : 20 Oct 2009 11:34 am Operator: sheilac
Sample : ic1917-0.1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(25) Chrysene (T)

13.90min 0.11ppb m

response 2480

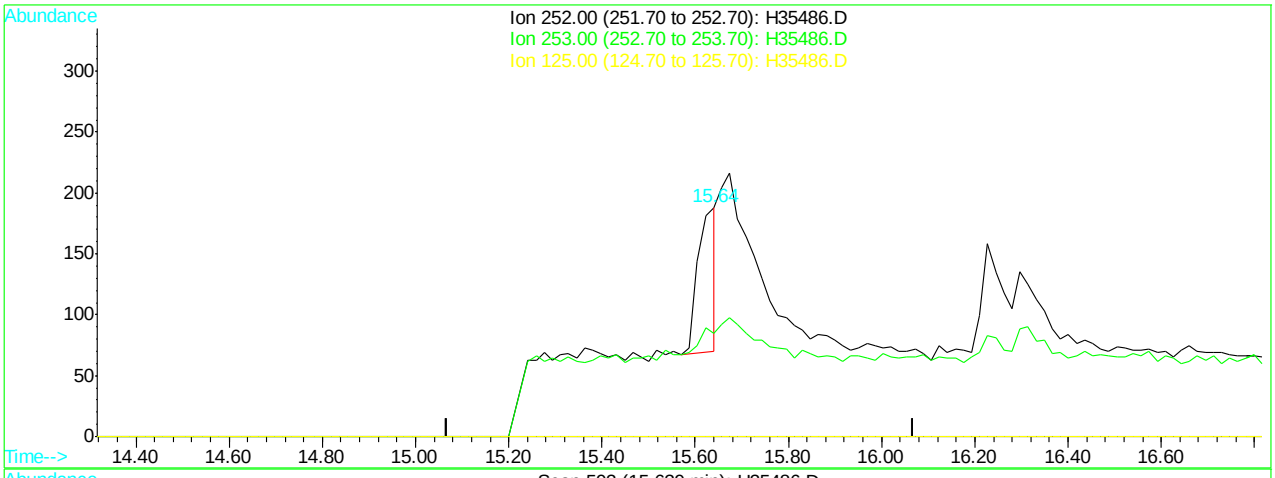
Ion	Exp%	Act%
228.00	100	100
226.00	36.50	37.16
229.00	15.50	26.54#
0.00	0.00	0.00

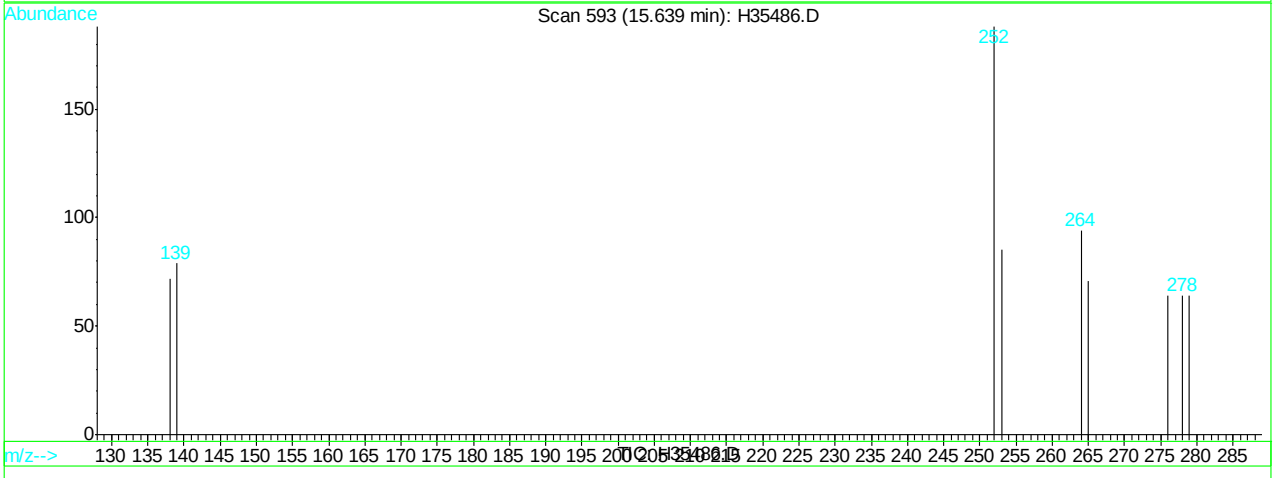
H35486.D H10209SP.M Tue Oct 20 14:45:04 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35486.D Vial: 4
Acq On : 20 Oct 2009 11:34 am Operator: sheilac
Sample : ic1917-0.1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.64min 0.06ppb m

response 326

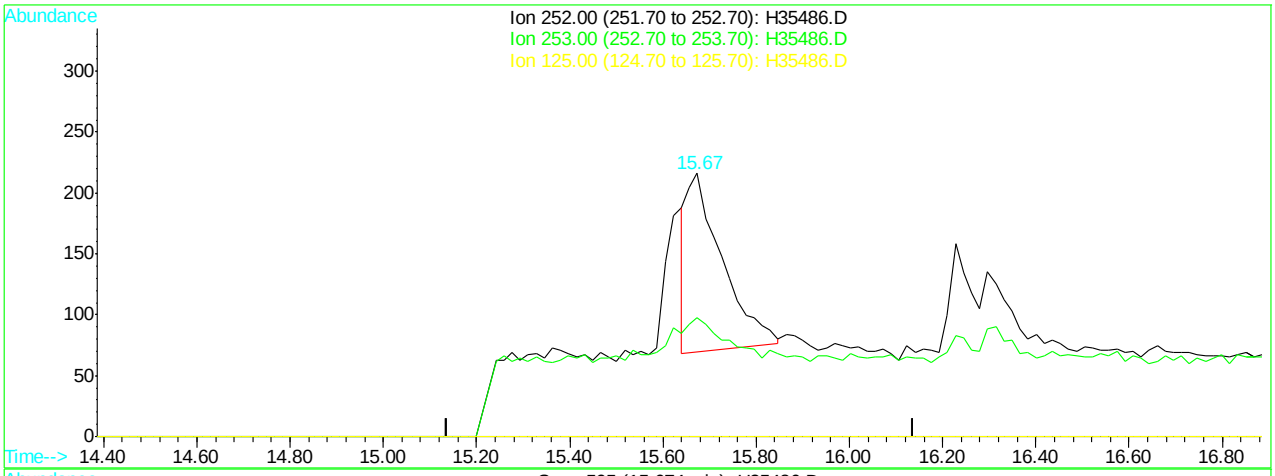
Ion	Exp%	Act%
252.00	100	100
253.00	21.70	45.21#
125.00	0.00	0.00
0.00	0.00	0.00

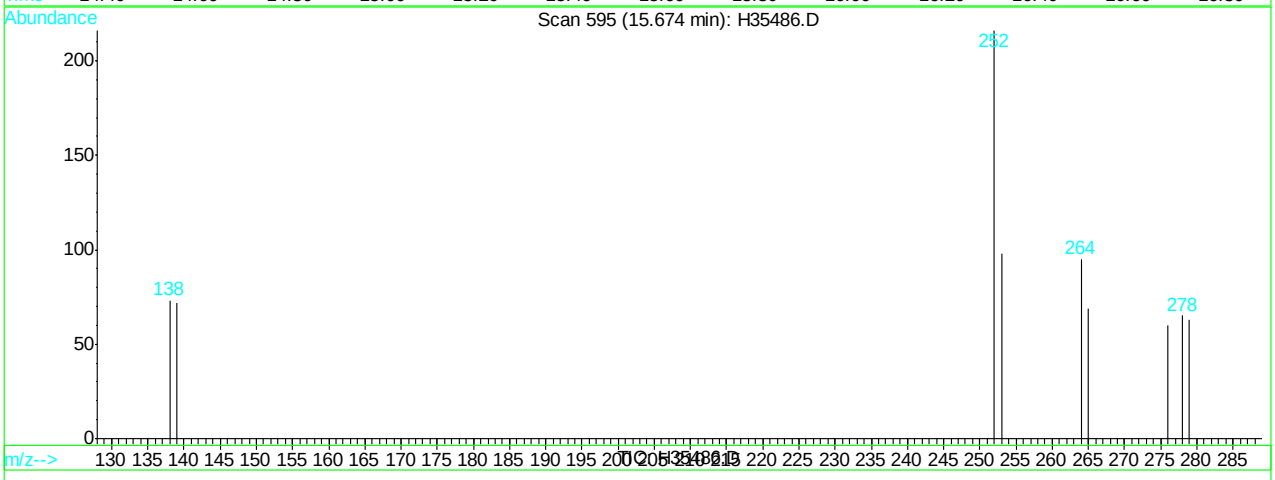
H35486.D H10209SP.M Tue Oct 20 14:45:09 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35486.D Vial: 4
Acq On : 20 Oct 2009 11:34 am Operator: sheilac
Sample : ic1917-0.1 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:34 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.67min 0.09ppb m

response 771

Ion	Exp%	Act%
252.00	100	100
253.00	23.30	45.37#
125.00	0.00	0.00
0.00	0.00	0.00

H35486.D H10209SP.M Tue Oct 20 14:45:12 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/21/09 17:36

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35487.D Vial: 5
Acq On : 20 Oct 2009 12:03 pm Operator: sheilac
Sample : ic1917-0.2 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:31 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 11:11:13 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	64836	4.00	ppb	0.02
4) Naphthalene-d8	7.56	136	49357	4.00	ppb	0.03
9) Acenaphthene-d10	9.57	164	43442	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	62758	4.00	ppb	0.02
21) Chrysene-d12	13.87	240	66856	4.00	ppb	0.00
26) Perylene-d12	16.31	264	19513	4.00	ppb	0.02

System Monitoring Compounds						
5) Nitrobenzene-d5	6.67	82	2957	0.71	ppb	0.12
Spiked Amount 5.000	Range 17 - 131		Recovery	=	14.20%#	
10) 2-Fluorobiphenyl	8.87	172	28366	0.75	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	=	15.00%	
16) 2,4,6-Tribromophenol	10.44	330	4952	1.38	ppb	0.05
Spiked Amount 10.000	Range 10 - 123		Recovery	=	13.80%	
23) Terphenyl-d14	12.66	244	6687	0.76	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery	=	15.20%	

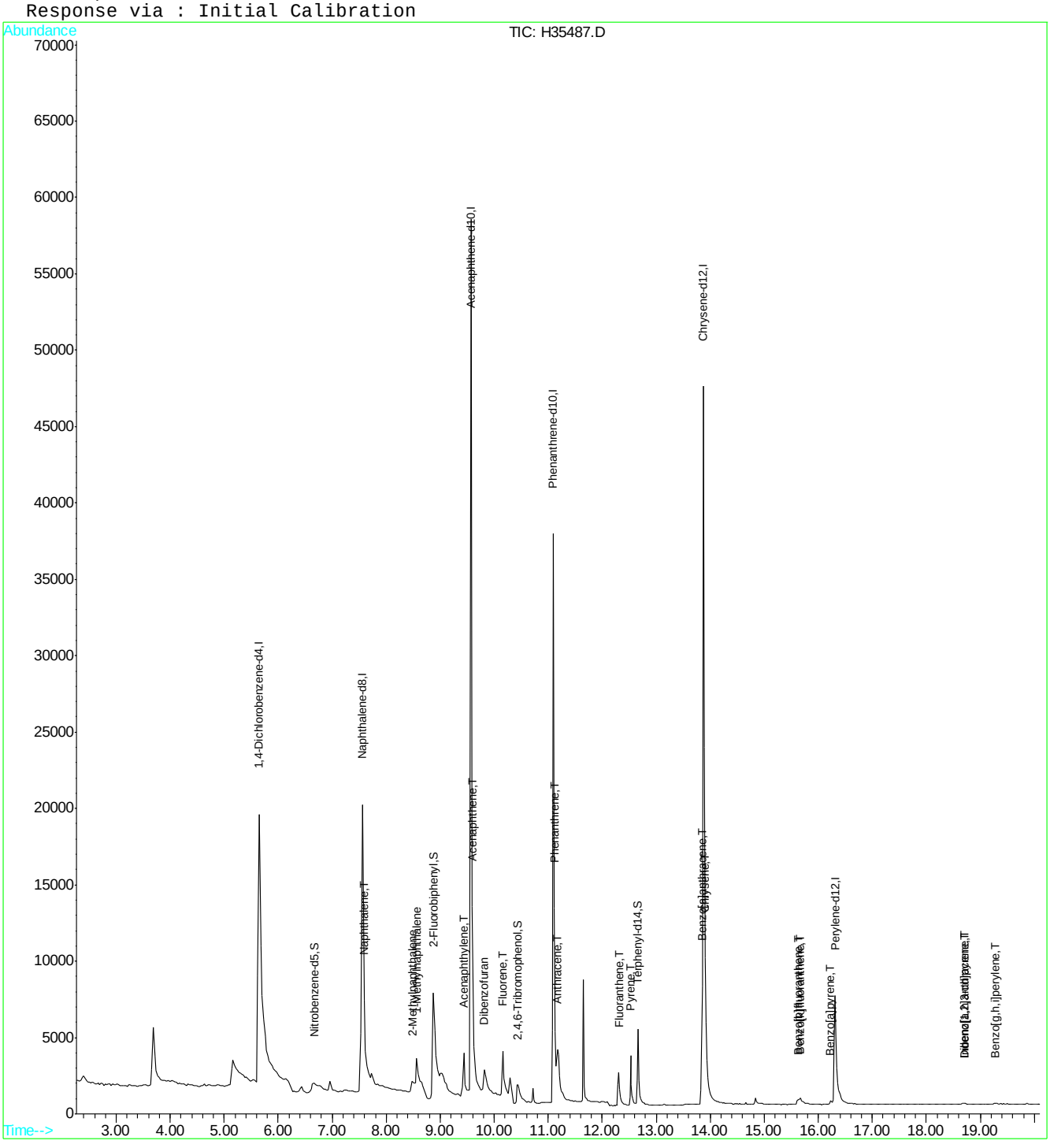
Target Compounds							Qvalue
6) Naphthalene	7.59	128	3530	0.13	ppb	#	80
7) 2-Methylnaphthalene	8.48	142	2125m	0.13	ppb		
8) 1-Methylnaphthalene	8.57	142	4265m	0.13	ppb		
11) Acenaphthylene	9.44	152	5216	0.08	ppb		96
12) Acenaphthene	9.60	153	5412	0.18	ppb		71
13) Dibenzofuran	9.81	168	5605	0.09	ppb	#	77
14) Fluorene	10.16	166	4247	0.10	ppb		93
18) Phenanthrene	11.11	178	6015m	0.18	ppb		
19) Anthracene	11.17	178	6644	0.16	ppb		99
20) Fluoranthene	12.31	202	5785	0.15	ppb	#	85
22) Pyrene	12.52	202	6183	0.17	ppb		98
24) Benzo[a]anthracene	13.85	228	3718	0.16	ppb		96
25) Chrysene	13.90	228	4310	0.16	ppb		93
27) Benzo[b]fluoranthene	15.64	252	749m	0.10	ppb		
28) Benzo[k]fluoranthene	15.66	252	1687m	0.15	ppb		
29) Benzo[a]pyrene	16.23	252	643	0.10	ppb		100
30) Indeno[1,2,3-cd]pyrene	18.70	276	284	0.12	ppb		87
31) Dibenz[a,h]anthracene	18.70	278	84m	0.06	ppb		
32) Benzo[g,h,i]perylene	19.27	276	198	0.11	ppb	#	74

(#) = qualifier out of range (m) = manual integration
H35487.D H10209SP.M Tue Oct 20 14:45:19 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35487.D Vial: 5
Acq On : 20 Oct 2009 12:03 pm Operator: sheilac
Sample : ic1917-0.2 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:31 2009 Quant Results File: H10209SP.RES

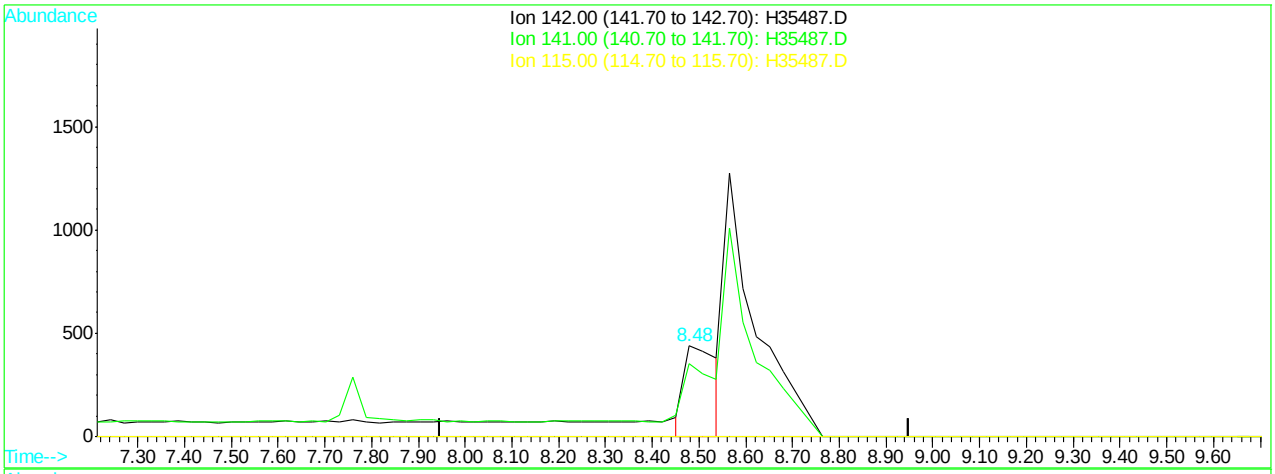
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Initial Calibration

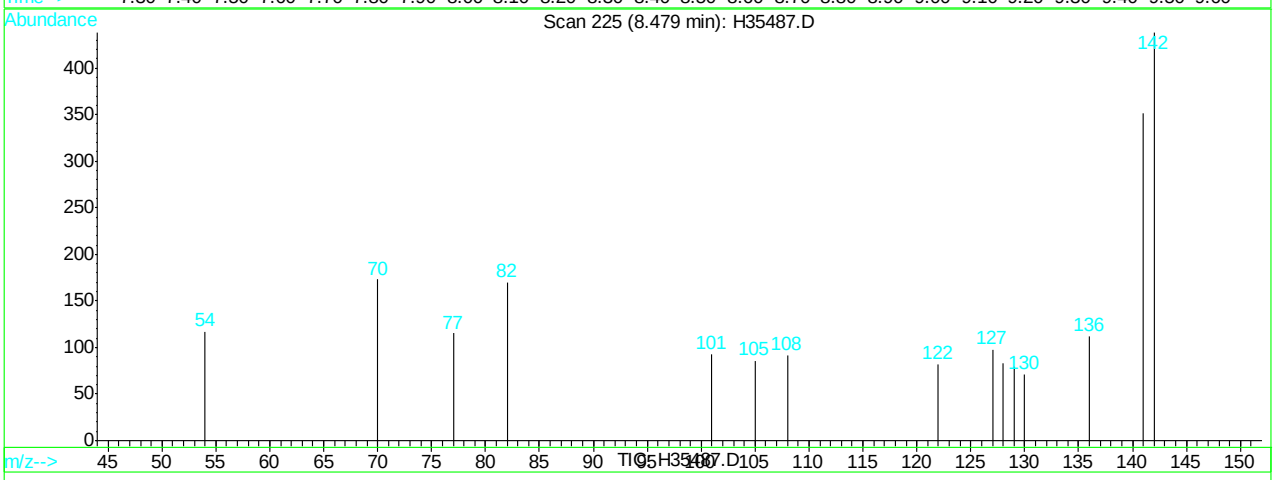


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35487.D Vial: 5
Acq On : 20 Oct 2009 12:03 pm Operator: sheilac
Sample : ic1917-0.2 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:31 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.48min 0.13ppb m

response 2125

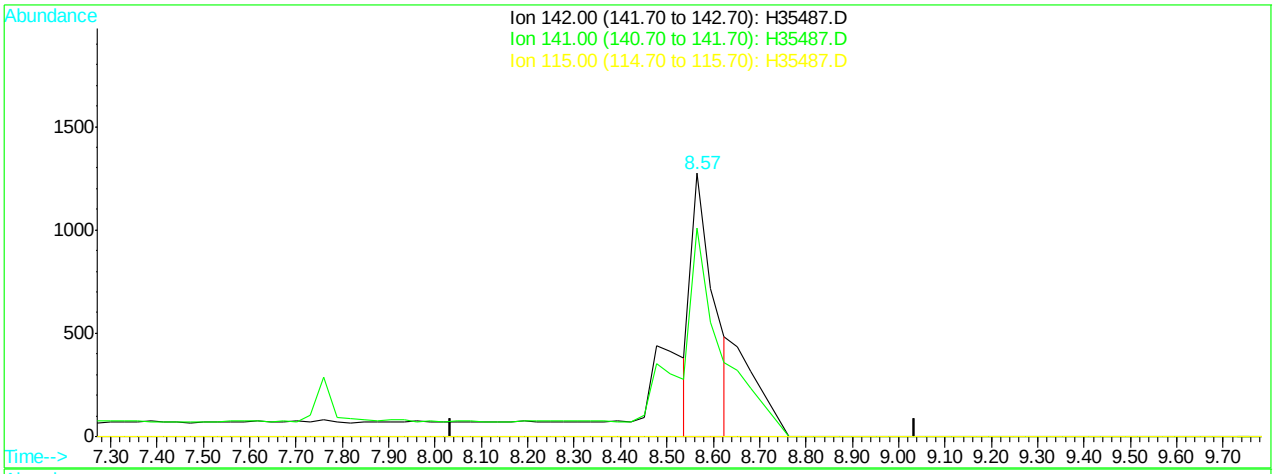
Ion	Exp%	Act%
142.00	100	100
141.00	0.00	331.91#
115.00	0.00	0.00
0.00	0.00	0.00

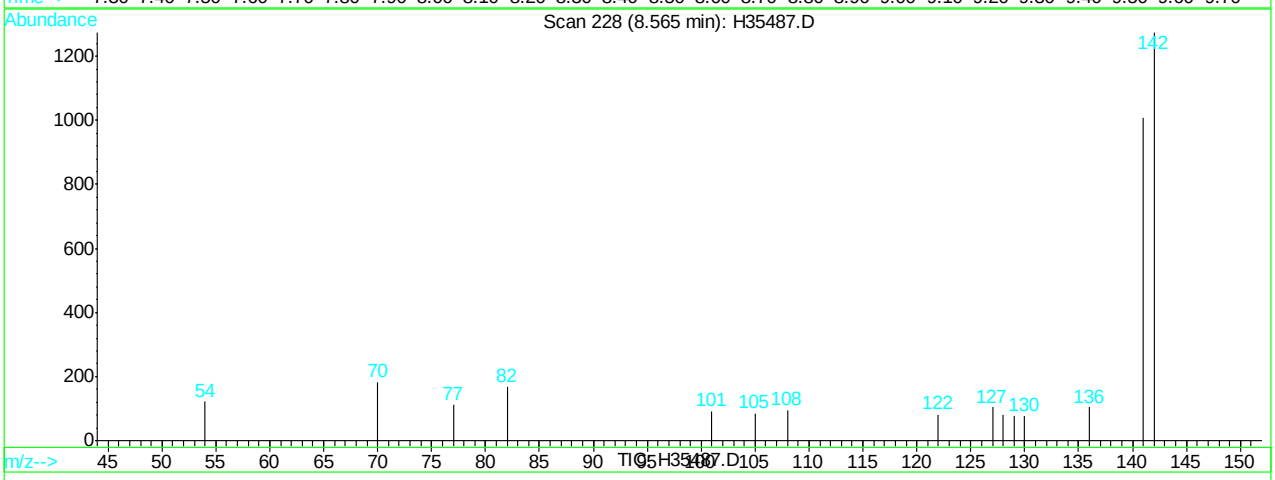
H35487.D H10209SP.M Tue Oct 20 14:45:33 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35487.D Vial: 5
Acq On : 20 Oct 2009 12:03 pm Operator: sheilac
Sample : ic1917-0.2 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:31 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(8) 1-Methylnaphthalene

8.57min 0.13ppb m

response 4265

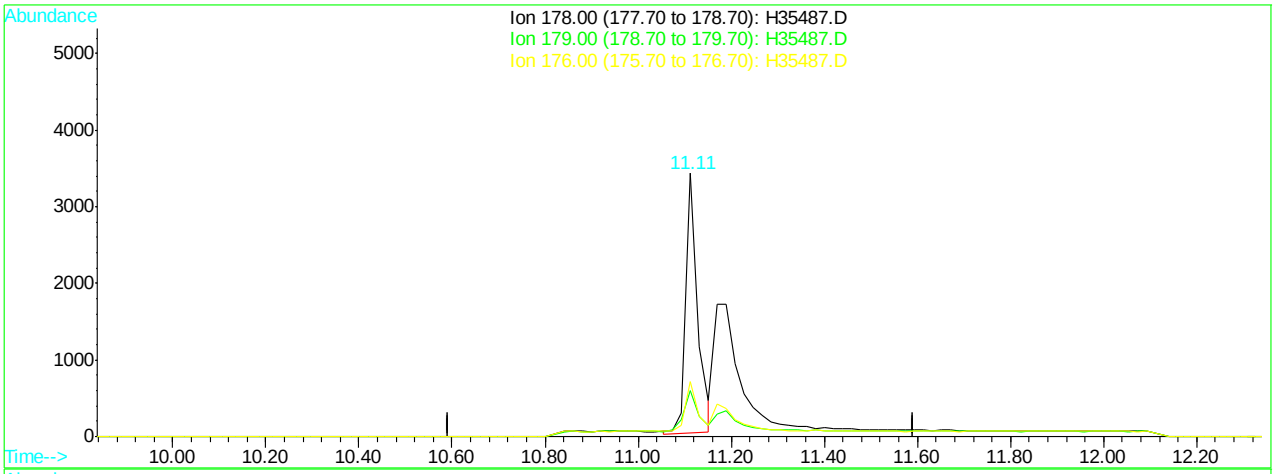
Ion	Exp%	Act%
142.00	100	100
141.00	134.10	165.37
115.00	0.00	0.00
0.00	0.00	0.00

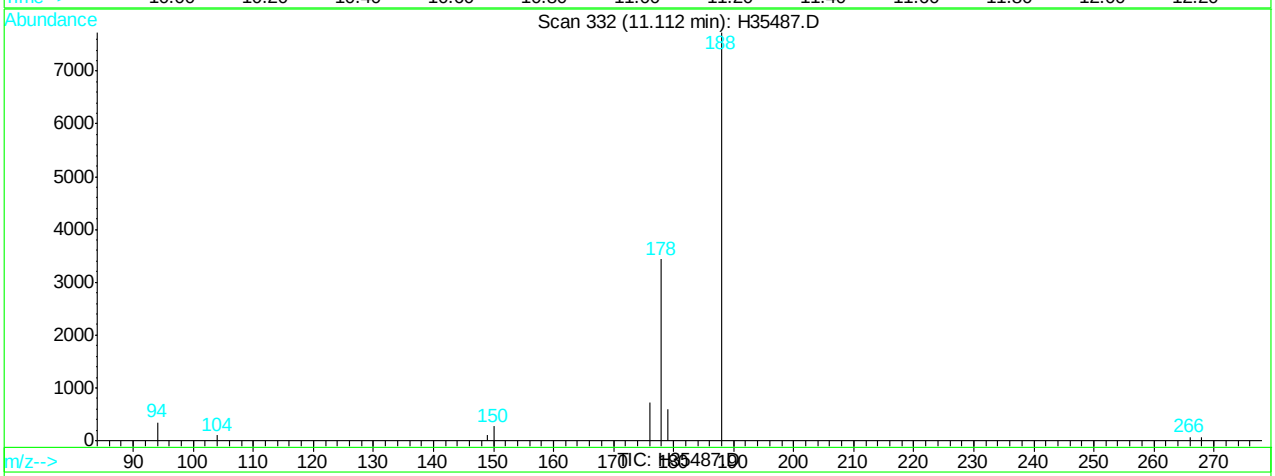
H35487.D H10209SP.M Tue Oct 20 14:45:37 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35487.D Vial: 5
Acq On : 20 Oct 2009 12:03 pm Operator: sheilac
Sample : ic1917-0.2 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:31 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 0.18ppb m

response 6015

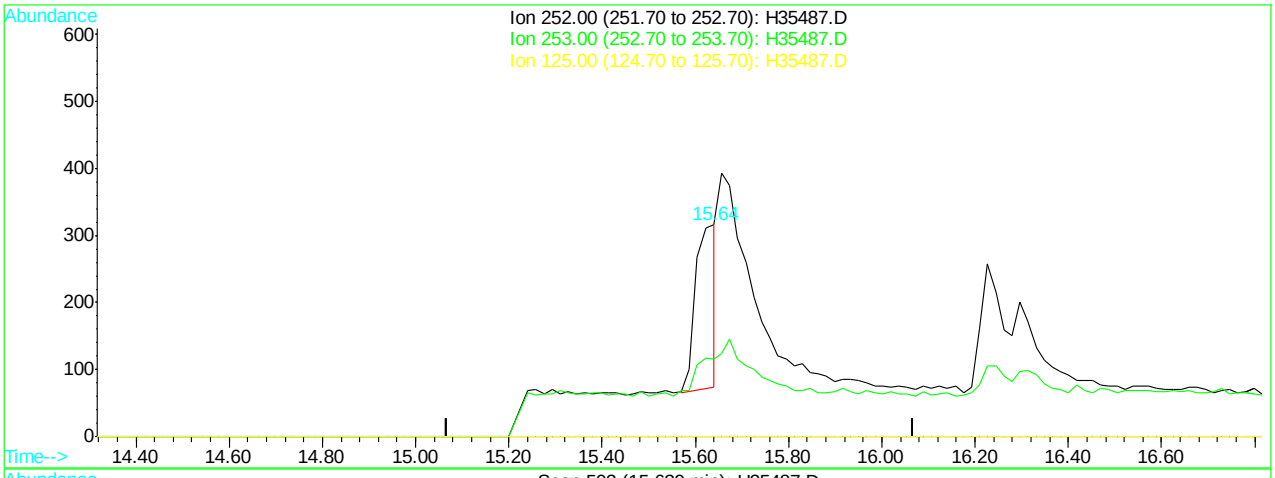
Ion	Exp%	Act%
178.00	100	100
179.00	10.90	17.53#
176.00	26.40	21.08
0.00	0.00	0.00

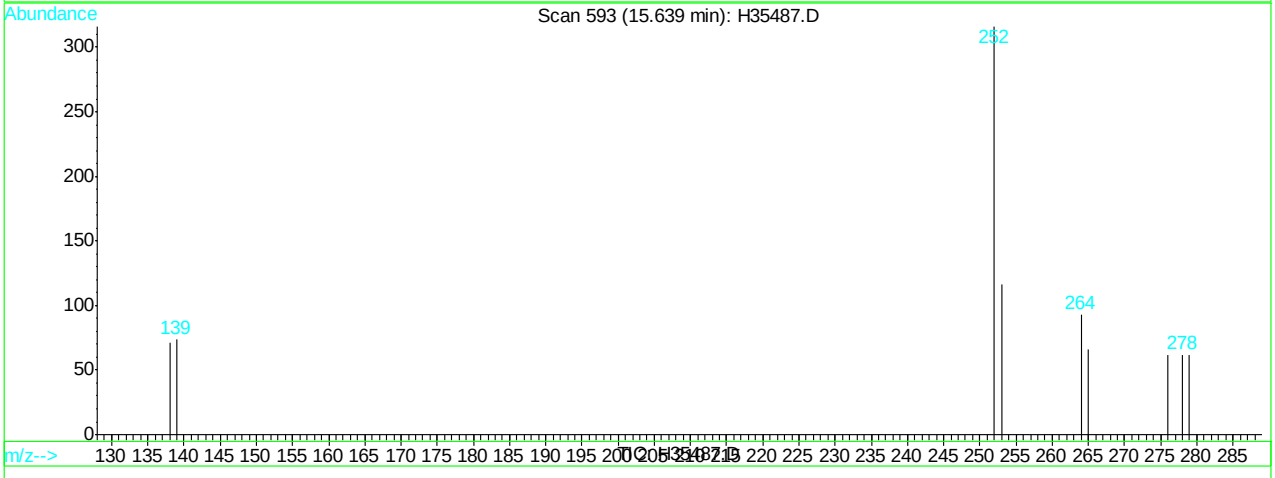
H35487.D H10209SP.M Tue Oct 20 14:45:44 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35487.D Vial: 5
Acq On : 20 Oct 2009 12:03 pm Operator: sheilac
Sample : ic1917-0.2 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:31 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(27) Benzo[b]fluoranthene (T)

15.64min 0.10ppb m

response 749

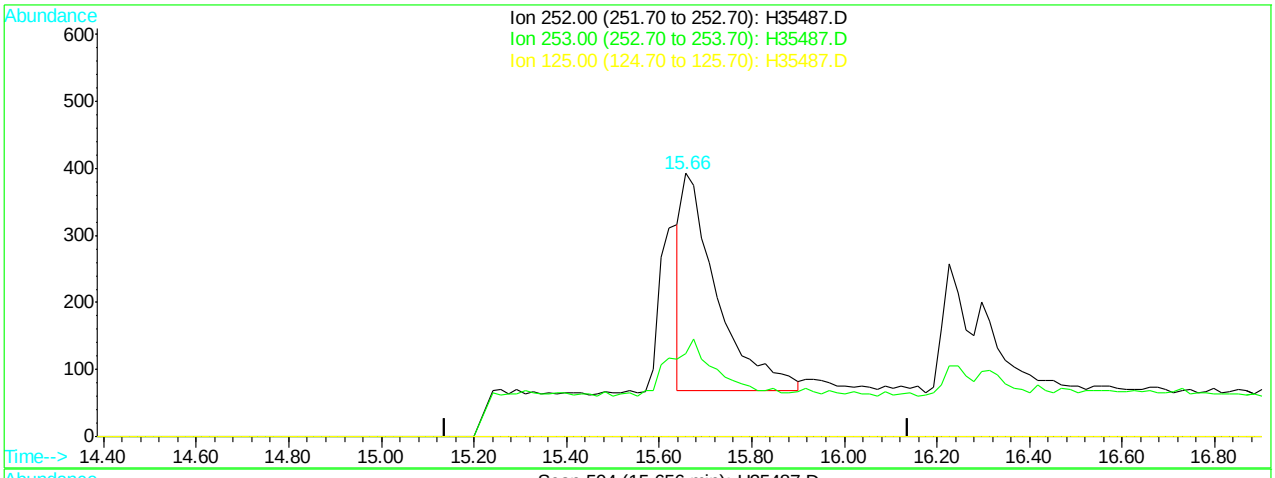
Ion	Exp%	Act%
252.00	100	100
253.00	21.70	36.71#
125.00	0.00	0.00
0.00	0.00	0.00

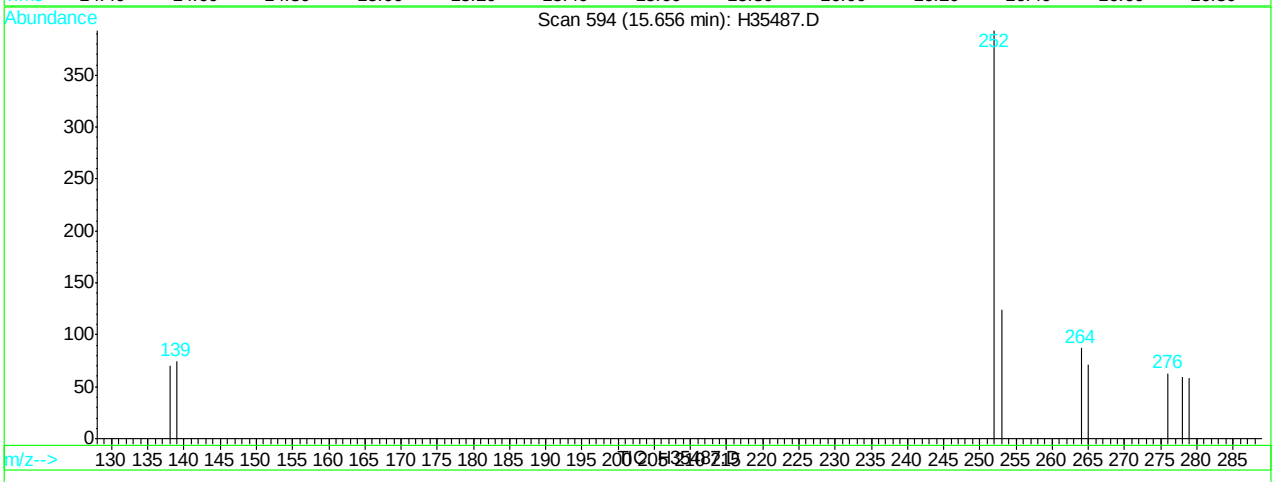
H35487.D H10209SP.M Tue Oct 20 14:45:48 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35487.D Vial: 5
Acq On : 20 Oct 2009 12:03 pm Operator: sheilac
Sample : ic1917-0.2 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:31 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.66min 0.15ppb m

response 1687

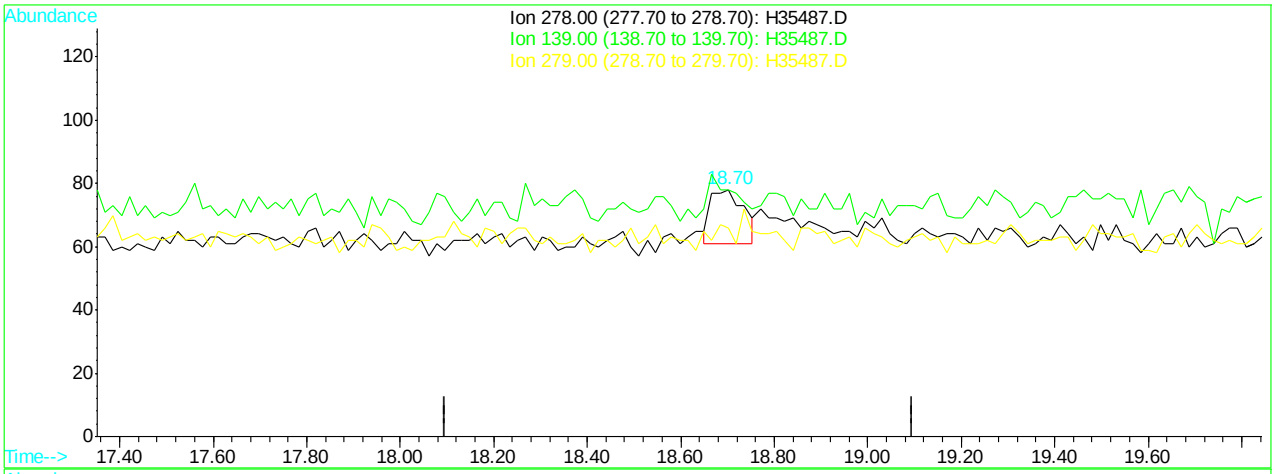
Ion	Exp%	Act%
252.00	100	100
253.00	23.30	31.55#
125.00	0.00	0.00
0.00	0.00	0.00

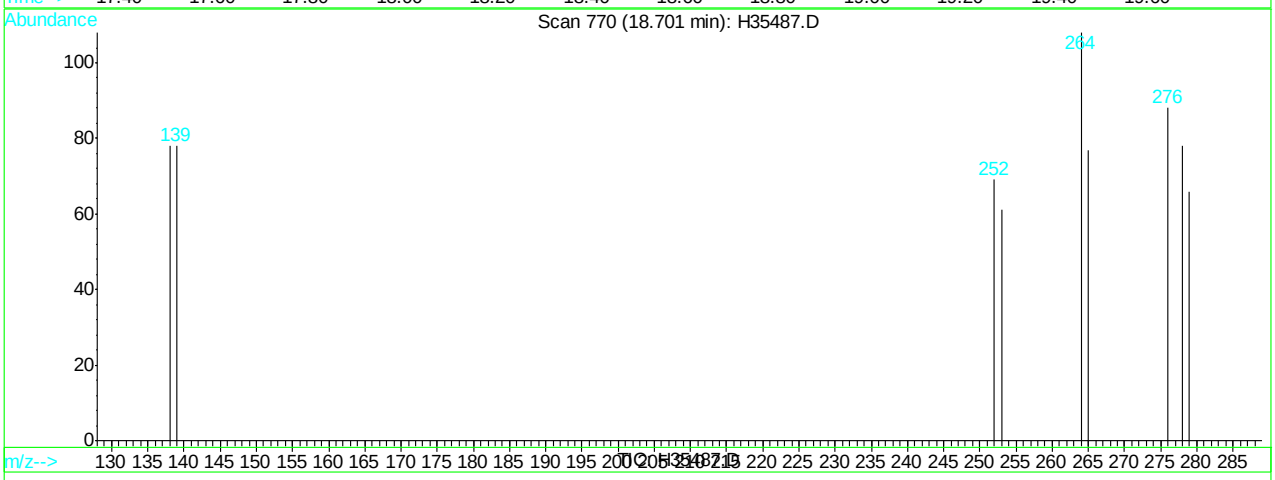
H35487.D H10209SP.M Tue Oct 20 14:45:51 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35487.D Vial: 5
Acq On : 20 Oct 2009 12:03 pm Operator: sheilac
Sample : ic1917-0.2 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:31 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(31) Dibenz[a,h]anthracene (T)

18.70min 0.06ppb m

response 84

Ion	Exp%	Act%
278.00	100	100
139.00	27.20	100.00#
279.00	22.00	84.62#
0.00	0.00	0.00

H35487.D H10209SP.M Tue Oct 20 14:45:55 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/21/09 17:36

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35488.D Vial: 6
Acq On : 20 Oct 2009 12:36 pm Operator: sheilac
Sample : ic1917-5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:38 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 13:37:18 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	68035	4.00	ppb	0.00
4) Naphthalene-d8	7.56	136	36871	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	50659	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	52227	4.00	ppb	0.00
21) Chrysene-d12	13.87	240	53003	4.00	ppb	0.00
26) Perylene-d12	16.31	264	16335	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	97751	31.91	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 638.20%#			
10) 2-Fluorobiphenyl	8.87	172	642730	20.96	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 419.20%#			
16) 2,4,6-Tribromophenol	10.40	330	143592	53.11	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 531.10%#			
23) Terphenyl-d14	12.66	244	174229	26.25	ppb	0.01
Spiked Amount 5.000	Range 10 - 160		Recovery = 525.00%#			

Target Compounds

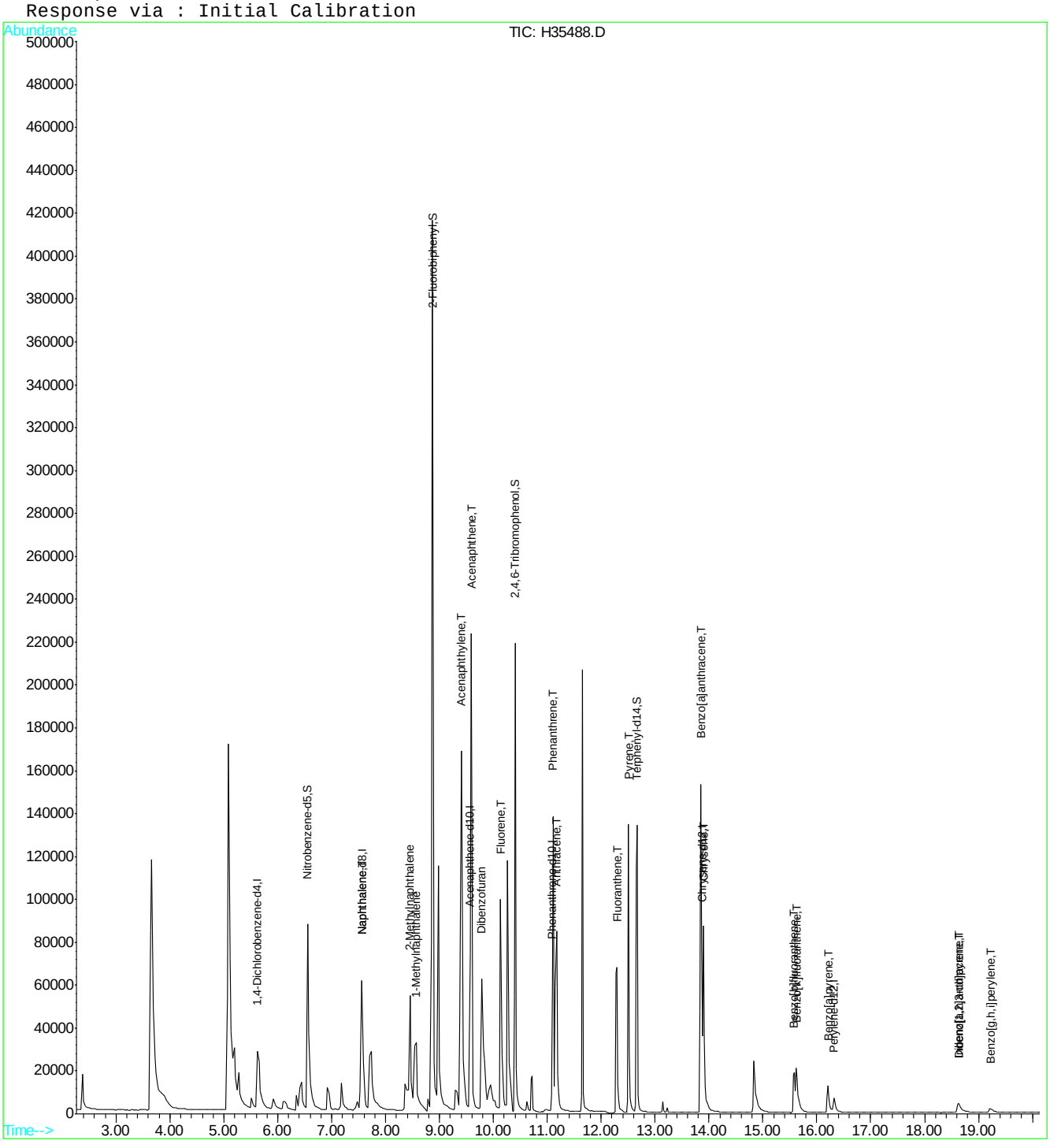
							Qvalue
6) Naphthalene	7.56	128	80780	5.20	ppb		96
7) 2-Methylnaphthalene	8.45	142	73754m	5.77	ppb		
8) 1-Methylnaphthalene	8.57	142	82183	4.41	ppb	#	91
11) Acenaphthylene	9.41	152	220735	5.24	ppb		98
12) Acenaphthene	9.59	153	143506	4.70	ppb		93
13) Dibenzofuran	9.78	168	112115	4.15	ppb		99
14) Fluorene	10.13	166	77621	3.85	ppb		90
18) Phenanthrene	11.11	178	135694m	4.78	ppb		
19) Anthracene	11.17	178	139575m	4.65	ppb		
20) Fluoranthene	12.29	202	153324	5.23	ppb	#	82
22) Pyrene	12.51	202	158652	5.31	ppb		100
24) Benzo[a]anthracene	13.85	228	105209	5.38	ppb		98
25) Chrysene	13.90	228	95271	5.00	ppb		98
27) Benzo[b]fluoranthene	15.57	252	40757	6.34	ppb		87
28) Benzo[k]fluoranthene	15.62	252	49020m	5.71	ppb		
29) Benzo[a]pyrene	16.21	252	33181	6.35	ppb		99
30) Indeno[1,2,3-cd]pyrene	18.63	276	11386	6.43	ppb		95
31) Dibenz[a,h]anthracene	18.63	278	7518	6.82	ppb		97
32) Benzo[g,h,i]perylene	19.22	276	8285	6.34	ppb		100

(#) = qualifier out of range (m) = manual integration
H35488.D H10209SP.M Tue Oct 20 14:46:01 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35488.D Vial: 6
Acq On : 20 Oct 2009 12:36 pm Operator: sheilac
Sample : ic1917-5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:38 2009 Quant Results File: H10209SP.RES

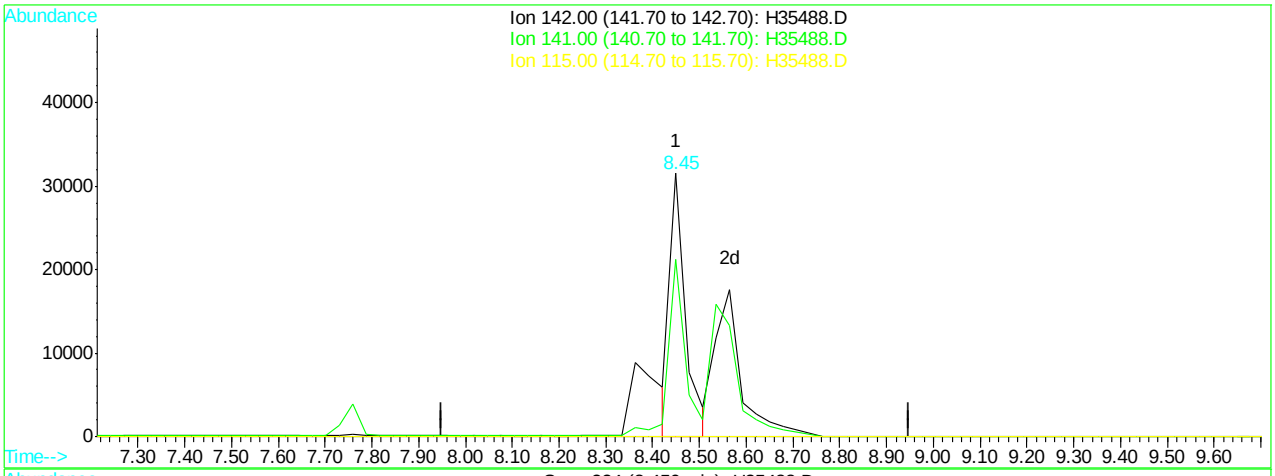
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Initial Calibration

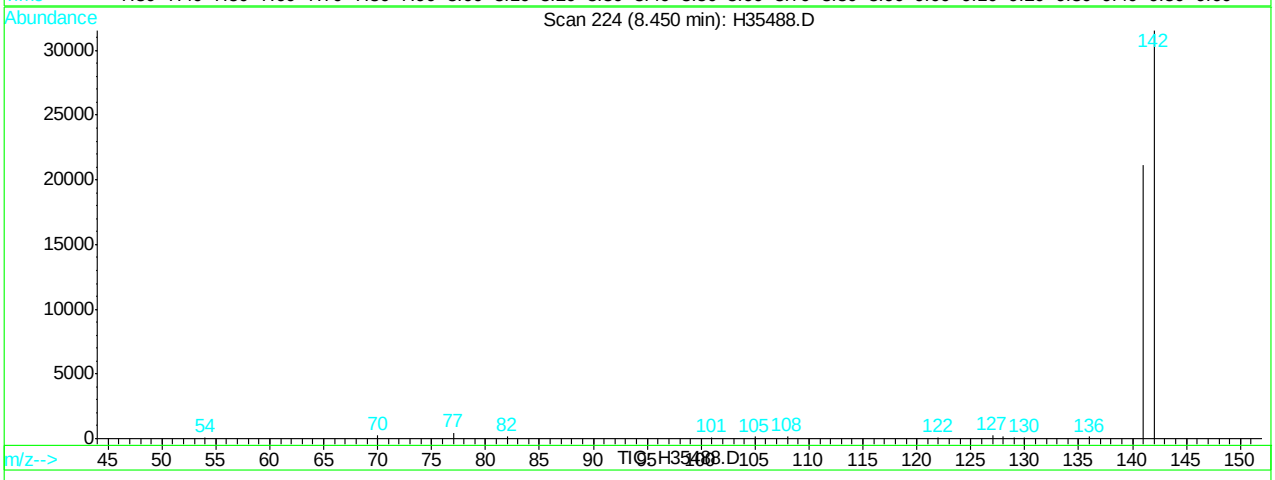


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35488.D Vial: 6
Acq On : 20 Oct 2009 12:36 pm Operator: sheilac
Sample : ic1917-5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:38 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.45min 5.77ppb m

response 73754

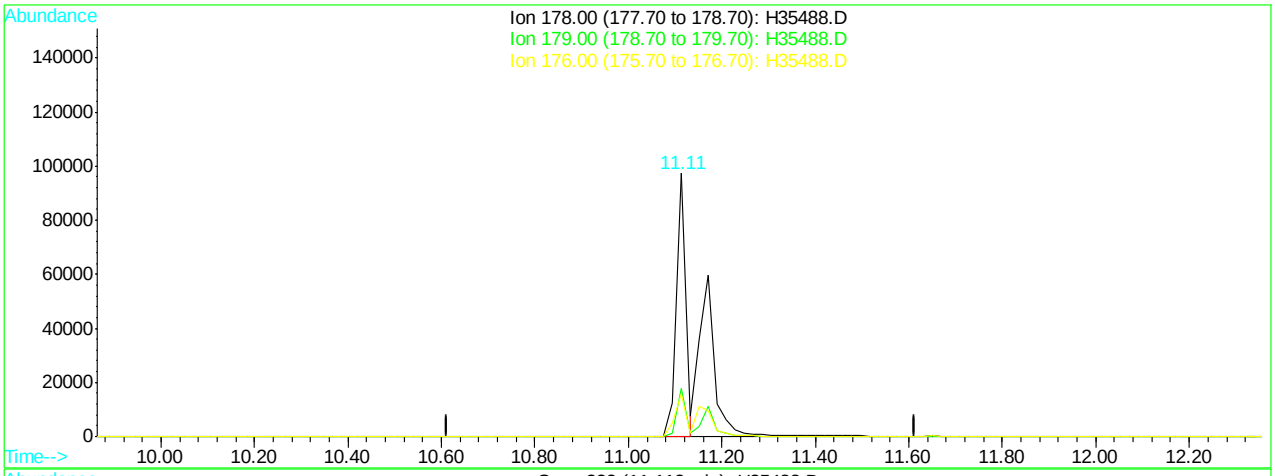
Ion	Exp%	Act%
142.00	100	100
141.00	69.80	73.35
115.00	0.00	0.00
0.00	0.00	0.00

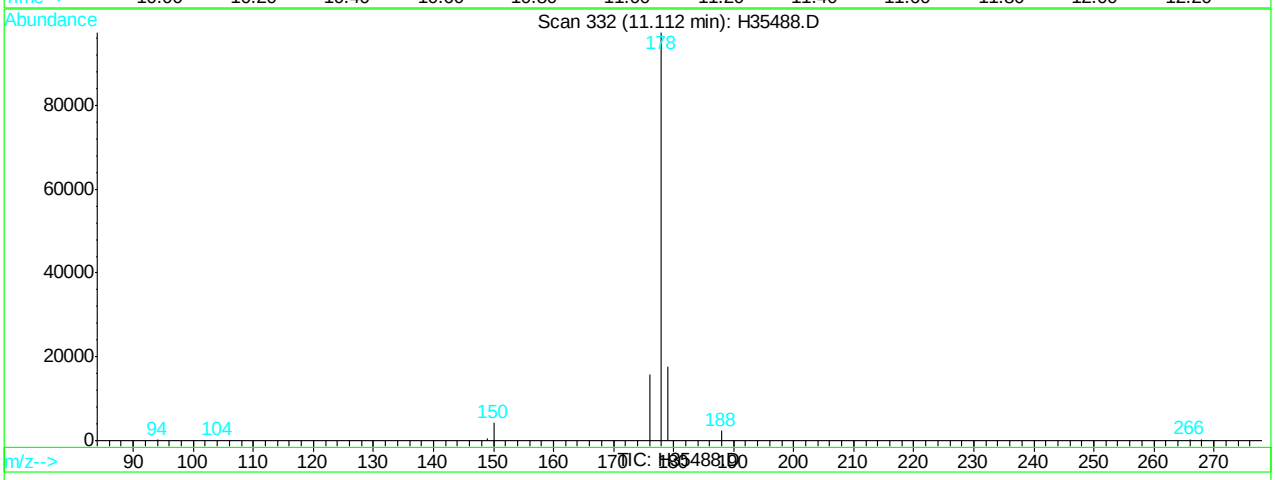
H35488.D H10209SP.M Tue Oct 20 14:46:17 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35488.D Vial: 6
Acq On : 20 Oct 2009 12:36 pm Operator: sheilac
Sample : ic1917-5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:38 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 4.78ppb m

response 135694

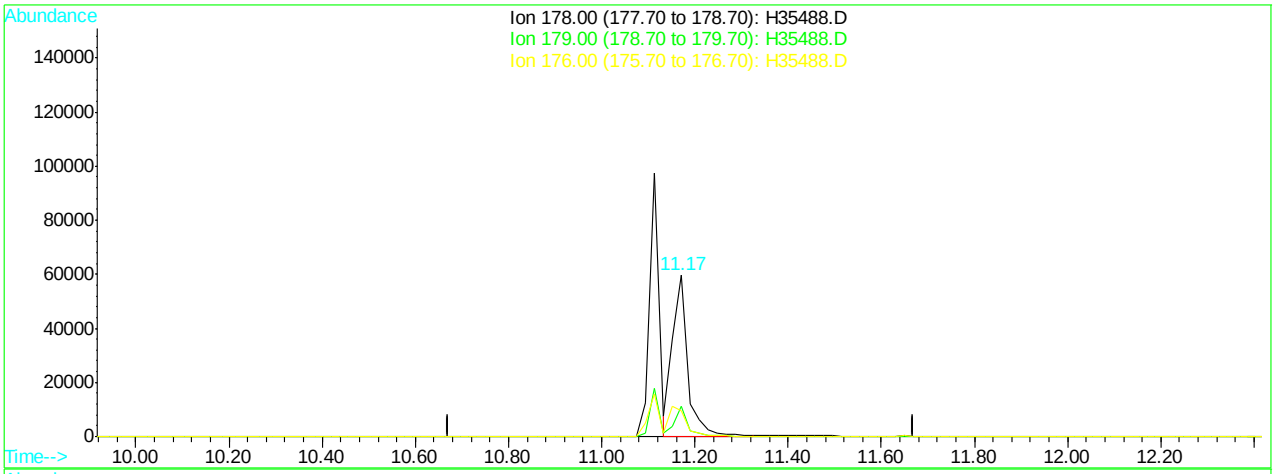
Ion	Exp%	Act%
178.00	100	100
179.00	18.50	18.26
176.00	16.30	16.20
0.00	0.00	0.00

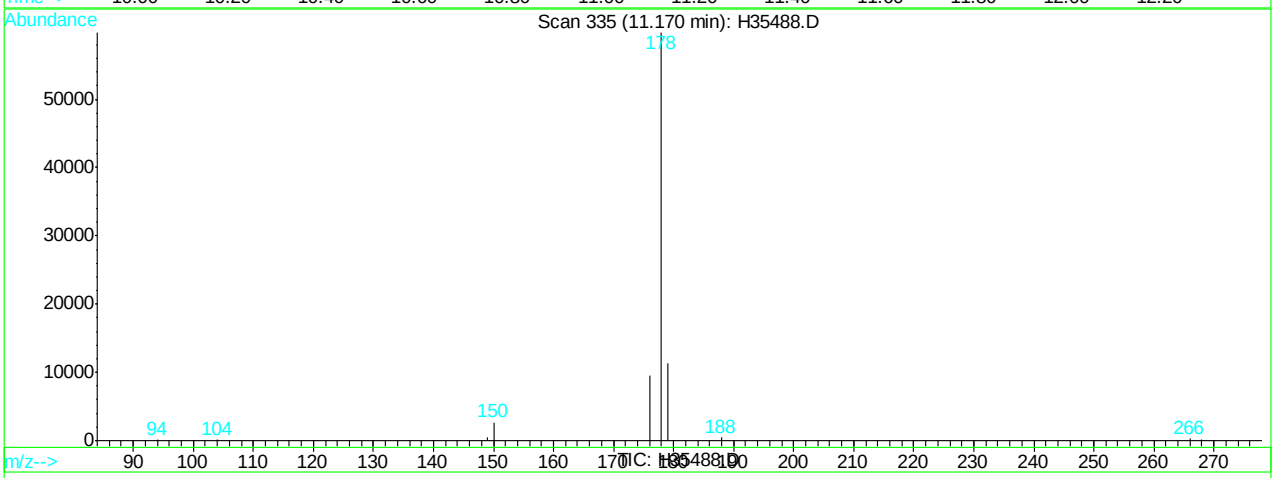
H35488.D H10209SP.M Tue Oct 20 14:46:28 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35488.D Vial: 6
Acq On : 20 Oct 2009 12:36 pm Operator: sheilac
Sample : ic1917-5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:38 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 4.65ppb m

response 139575

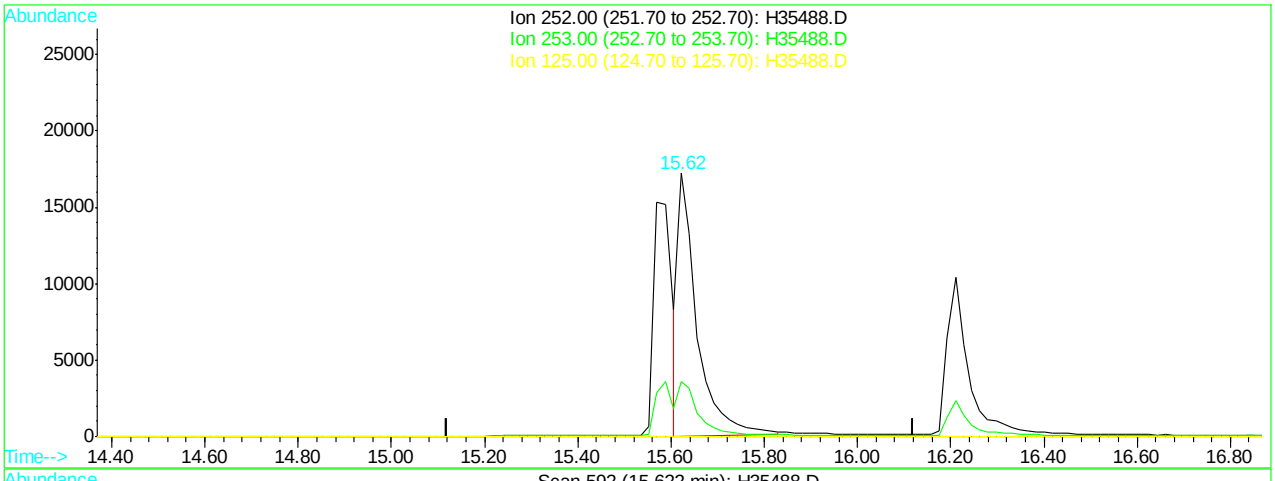
Ion	Exp%	Act%
178.00	100	100
179.00	19.10	18.98
176.00	16.60	16.03
0.00	0.00	0.00

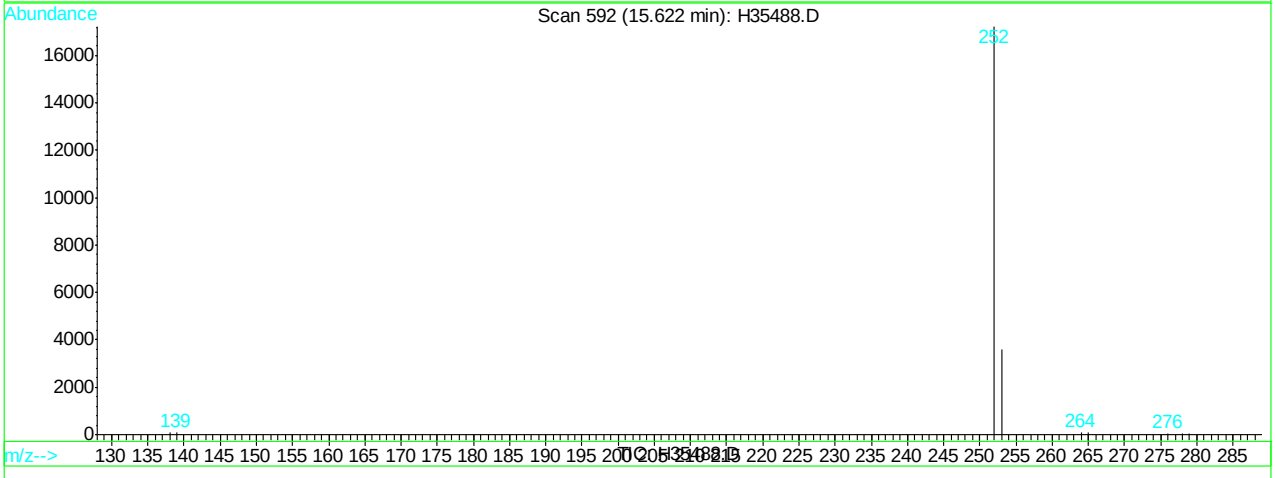
H35488.D H10209SP.M Tue Oct 20 14:46:32 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35488.D Vial: 6
Acq On : 20 Oct 2009 12:36 pm Operator: sheilac
Sample : ic1917-5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:38 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.62min 5.71ppb m

response 49020

Ion	Exp%	Act%
252.00	100	100
253.00	20.80	21.02
125.00	0.00	0.00
0.00	0.00	0.00

H35488.D H10209SP.M Tue Oct 20 14:46:38 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/21/09 17:36

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35489.D Vial: 7
Acq On : 20 Oct 2009 1:01 pm Operator: sheilac
Sample : ic1917-10 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:22 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 13:19:19 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	76307	4.00 ppb	0.00
4) Naphthalene-d8	7.56	136	40661	4.00 ppb	0.00
9) Acenaphthene-d10	9.57	164	63101	4.00 ppb	0.00
15) Phenanthrene-d10	11.09	188	58666	4.00 ppb	0.00
21) Chrysene-d12	13.87	240	65381	4.00 ppb	0.00
26) Perylene-d12	16.31	264	18235	4.00 ppb	0.00

System Monitoring Compounds					
5) Nitrobenzene-d5	6.55	82	216435	67.85 ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery	= 1357.00%#	
10) 2-Fluorobiphenyl	8.87	172	2311800	63.03 ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery	= 1260.60%#	
16) 2,4,6-Tribromophenol	10.40	330	362910	124.25 ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery	= 1242.50%#	
23) Terphenyl-d14	12.66	244	528724	68.58 ppb	0.01
Spiked Amount 5.000	Range 10 - 160		Recovery	= 1371.60%#	

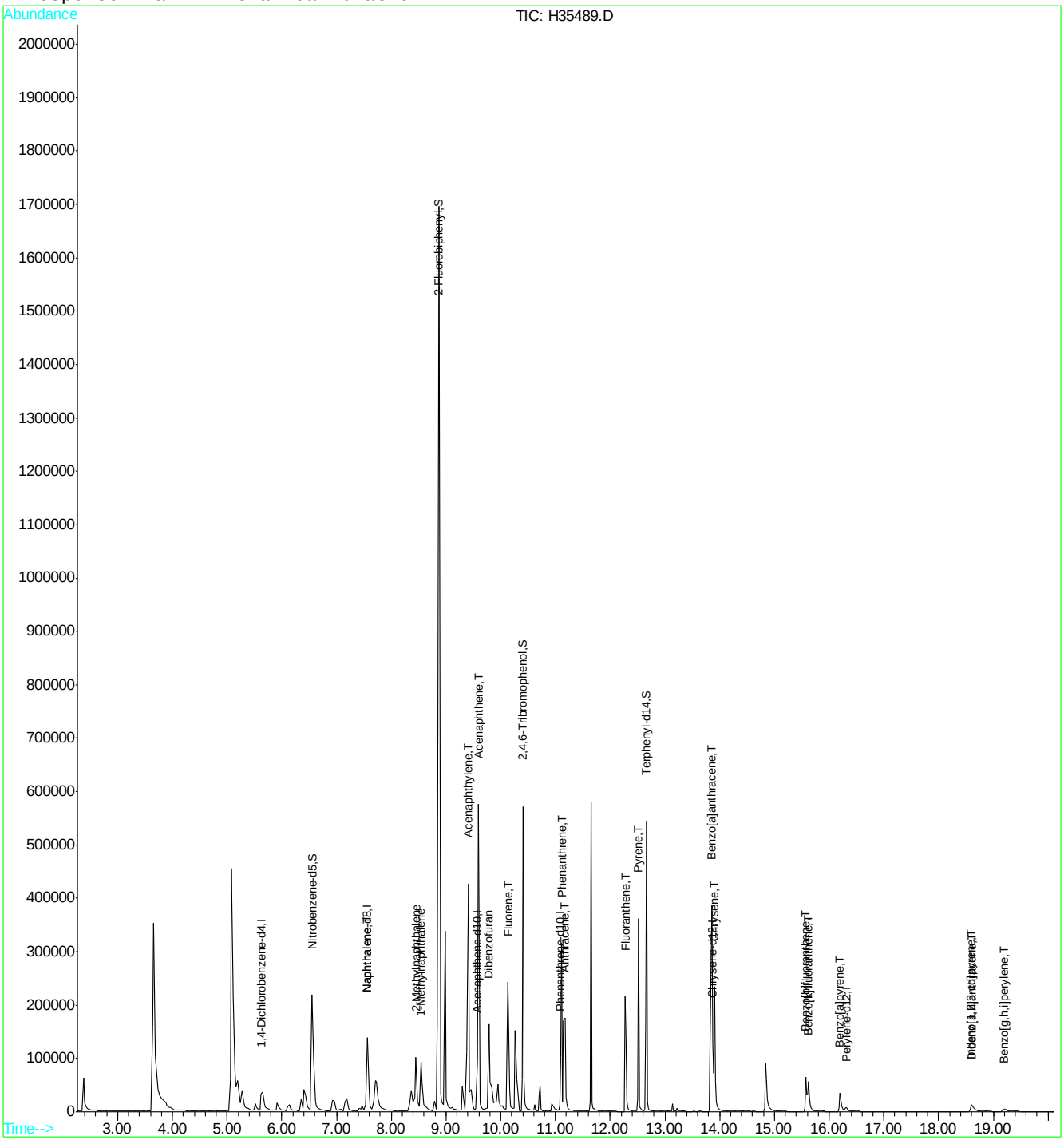
Target Compounds						Qvalue
6) Naphthalene	7.56	128	190628	11.38 ppb		93
7) 2-Methylnaphthalene	8.45	142	129951m	9.07 ppb		
8) 1-Methylnaphthalene	8.54	142	168988	7.94 ppb	#	79
11) Acenaphthylene	9.41	152	540687	10.33 ppb		98
12) Acenaphthene	9.59	153	375516	9.82 ppb		84
13) Dibenzofuran	9.78	168	249836	7.03 ppb	#	84
14) Fluorene	10.13	166	166276	6.11 ppb		89
18) Phenanthrene	11.11	178	310917m	9.70 ppb		
19) Anthracene	11.17	178	312787m	9.11 ppb		
20) Fluoranthene	12.28	202	337256	10.28 ppb	#	86
22) Pyrene	12.51	202	391283	10.74 ppb		96
24) Benzo[a]anthracene	13.85	228	268224	11.38 ppb		98
25) Chrysene	13.90	228	221640	9.33 ppb		100
27) Benzo[b]fluoranthene	15.57	252	117509	18.75 ppb		96
28) Benzo[k]fluoranthene	15.62	252	98292m	10.27 ppb		
29) Benzo[a]pyrene	16.19	252	78435	14.43 ppb		97
30) Indeno[1,2,3-cd]pyrene	18.60	276	27706	15.27 ppb		97
31) Dibenz[a,h]anthracene	18.62	278	19737	18.24 ppb		96
32) Benzo[g,h,i]perylene	19.20	276	20121	14.93 ppb		100

(#) = qualifier out of range (m) = manual integration
H35489.D H10209SP.M Tue Oct 20 14:48:11 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35489.D Vial: 7
Acq On : 20 Oct 2009 1:01 pm Operator: sheilac
Sample : ic1917-10 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:22 2009 Quant Results File: H10209SP.RES

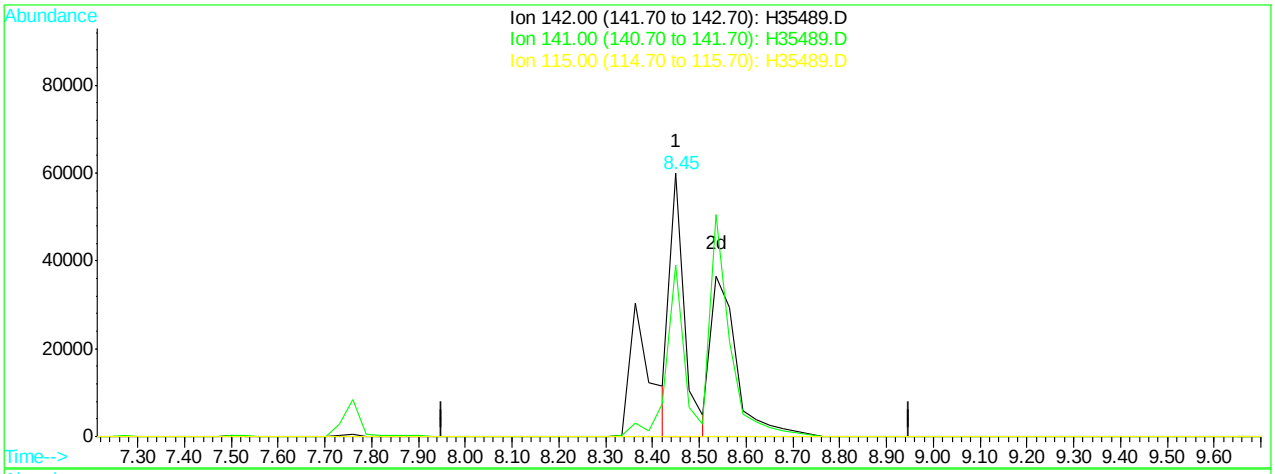
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Initial Calibration

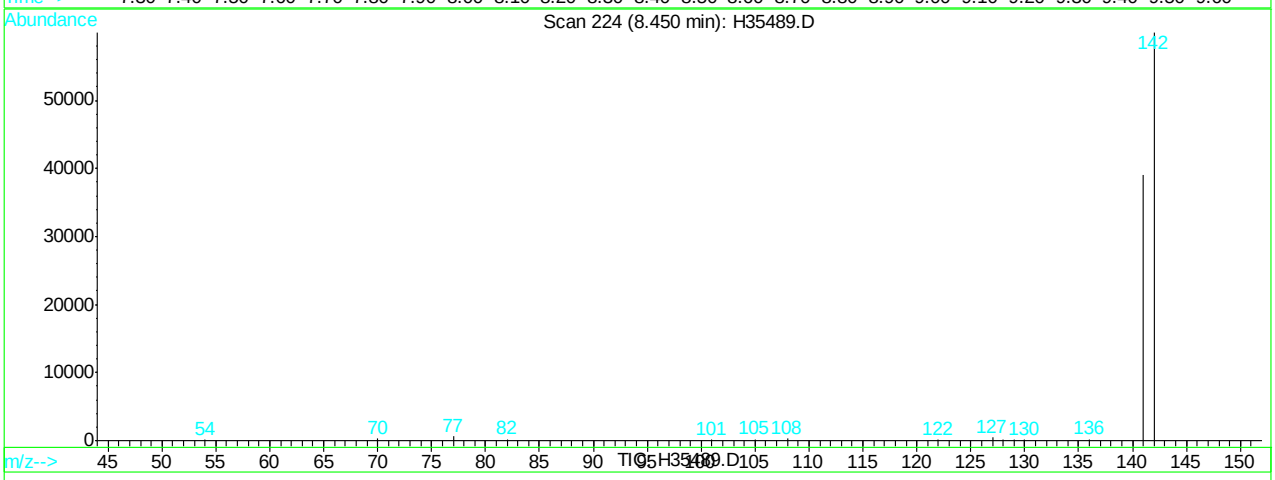


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35489.D Vial: 7
Acq On : 20 Oct 2009 1:01 pm Operator: sheilac
Sample : ic1917-10 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.45min 9.07ppb m

response 129951

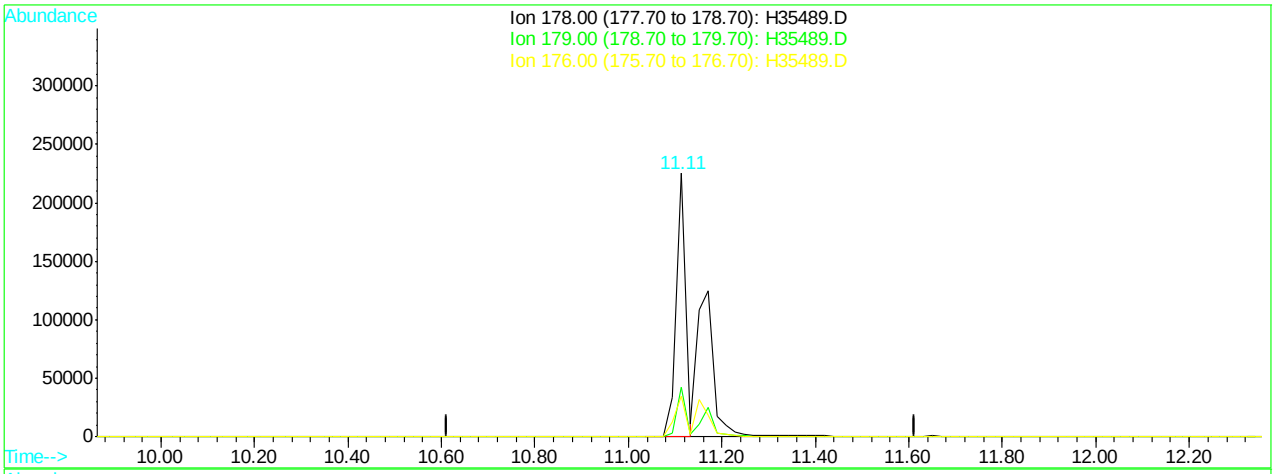
Ion	Exp%	Act%
142.00	100	100
141.00	69.80	80.03
115.00	0.00	0.00
0.00	0.00	0.00

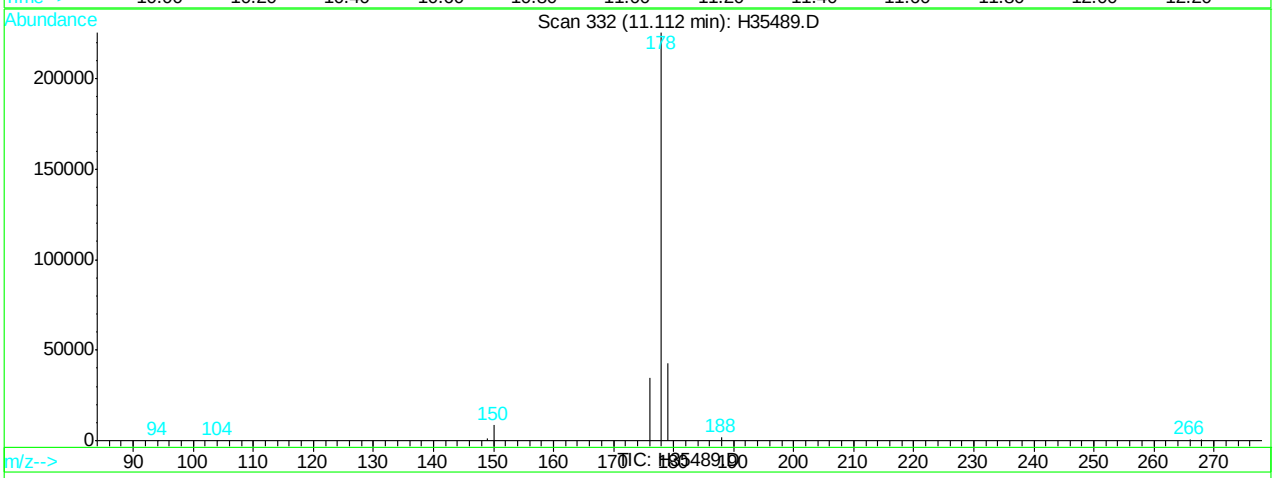
H35489.D H10209SP.M Tue Oct 20 14:48:24 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35489.D Vial: 7
Acq On : 20 Oct 2009 1:01 pm Operator: sheilac
Sample : ic1917-10 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 9.70ppb m

response 310917

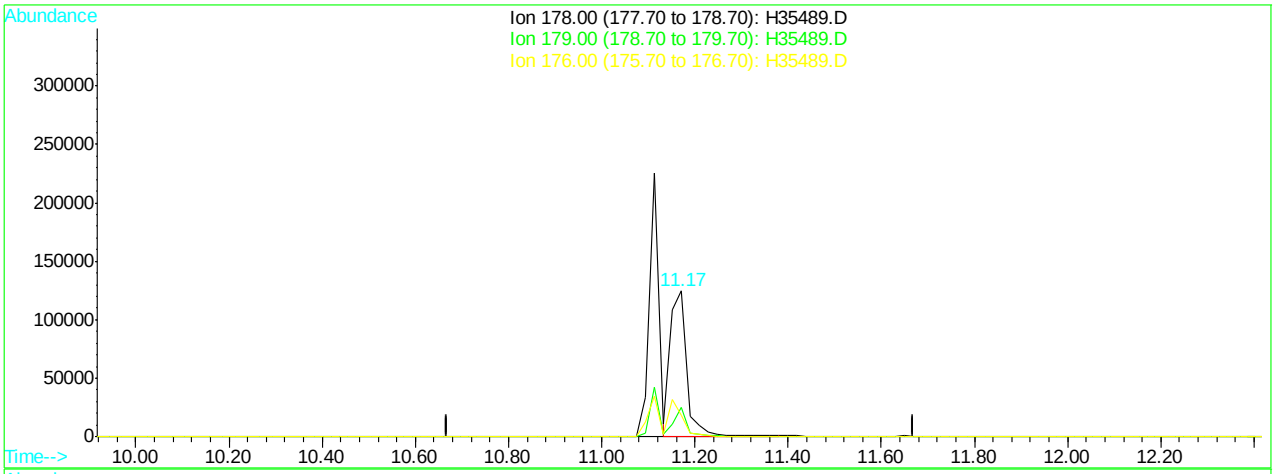
Ion	Exp%	Act%
178.00	100	100
179.00	18.50	18.87
176.00	16.30	15.48
0.00	0.00	0.00

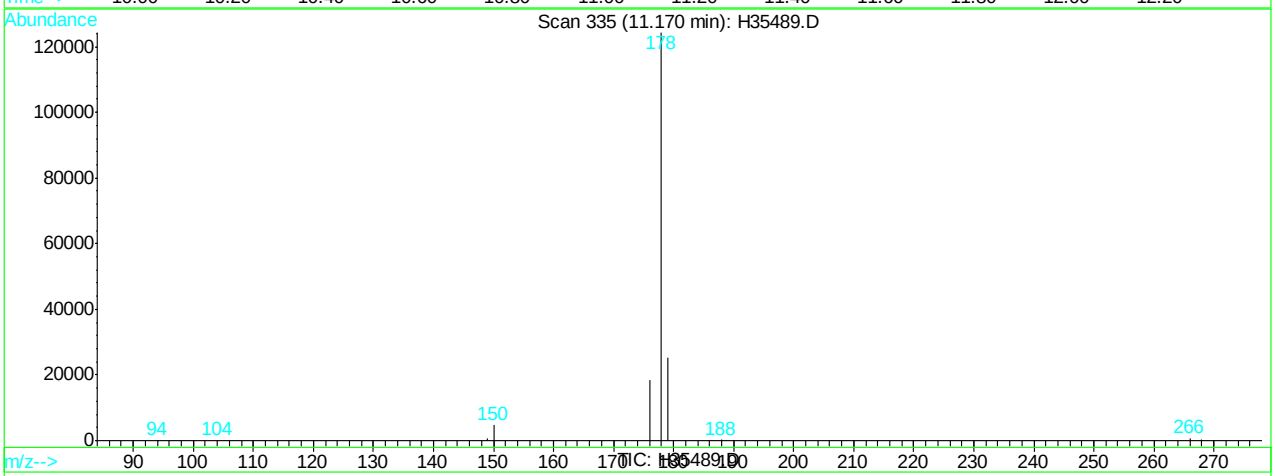
H35489.D H10209SP.M Tue Oct 20 14:48:29 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35489.D Vial: 7
Acq On : 20 Oct 2009 1:01 pm Operator: sheilac
Sample : ic1917-10 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 9.11ppb m

response 312787

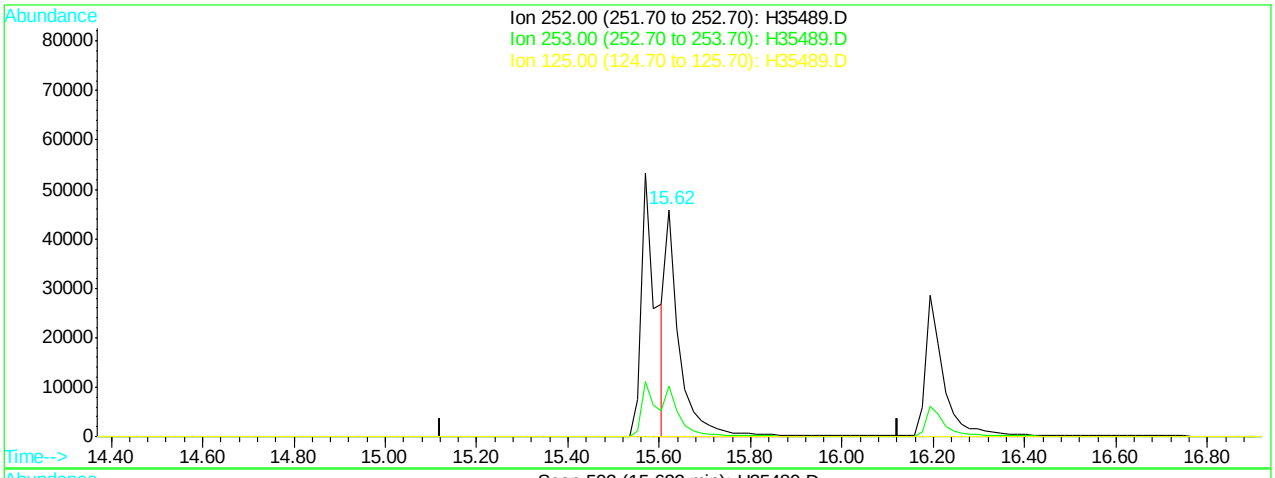
Ion	Exp%	Act%
178.00	100	100
179.00	19.00	20.37
176.00	16.00	14.86
0.00	0.00	0.00

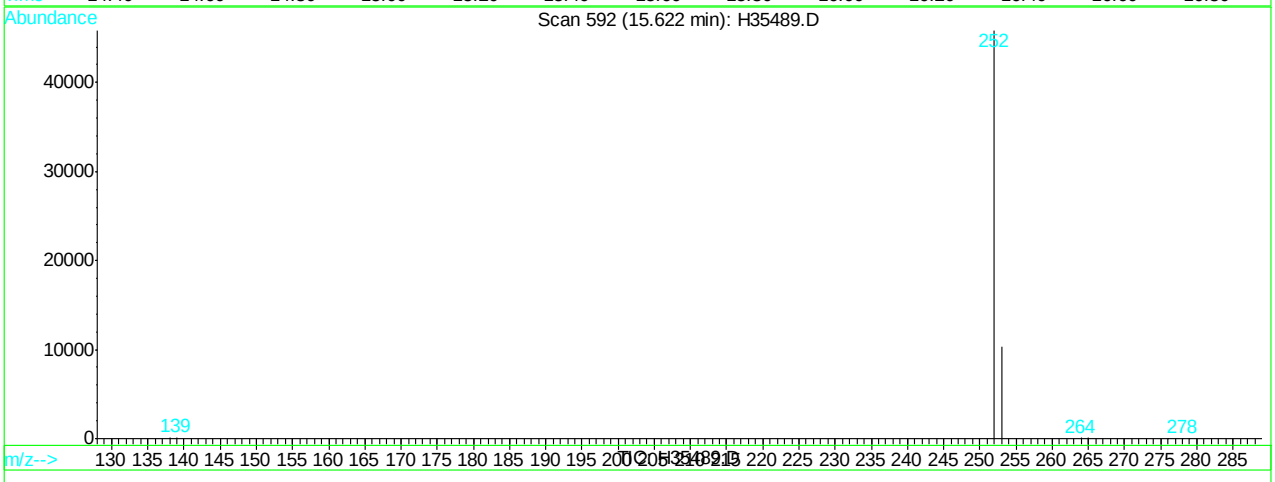
H35489.D H10209SP.M Tue Oct 20 14:48:32 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35489.D Vial: 7
Acq On : 20 Oct 2009 1:01 pm Operator: sheilac
Sample : ic1917-10 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:22 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.62min 10.27ppb m

response 98292

Ion	Exp%	Act%
252.00	100	100
253.00	21.00	22.45
125.00	0.00	0.00
0.00	0.00	0.00

H35489.D H10209SP.M Tue Oct 20 14:48:39 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez 10/21/09 17:36

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35490.D Vial: 8
Acq On : 20 Oct 2009 1:34 pm Operator: sheilac
Sample : icc1917-2.5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:47 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 13:43:15 2009
Response via : Initial Calibration
DataAcq Meth : HSIMBSPP

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.65	152	79388	4.00	ppb	0.03
4) Naphthalene-d8	7.56	136	50031	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	57496	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	59382	4.00	ppb	0.00
21) Chrysene-d12	13.87	240	65445	4.00	ppb	0.00
26) Perylene-d12	16.31	264	20144	4.00	ppb	0.00

System Monitoring Compounds

5) Nitrobenzene-d5	6.55	82	56500	13.92	ppb	0.00
Spiked Amount 5.000	Range 17 - 131		Recovery = 278.40%#			
10) 2-Fluorobiphenyl	8.87	172	332970	9.59	ppb	0.00
Spiked Amount 5.000	Range 15 - 137		Recovery = 191.80%#			
16) 2,4,6-Tribromophenol	10.40	330	71756	23.31	ppb	0.00
Spiked Amount 10.000	Range 10 - 123		Recovery = 233.10%#			
23) Terphenyl-d14	12.66	244	92811	11.29	ppb	0.02
Spiked Amount 5.000	Range 10 - 160		Recovery = 225.80%#			

Target Compounds

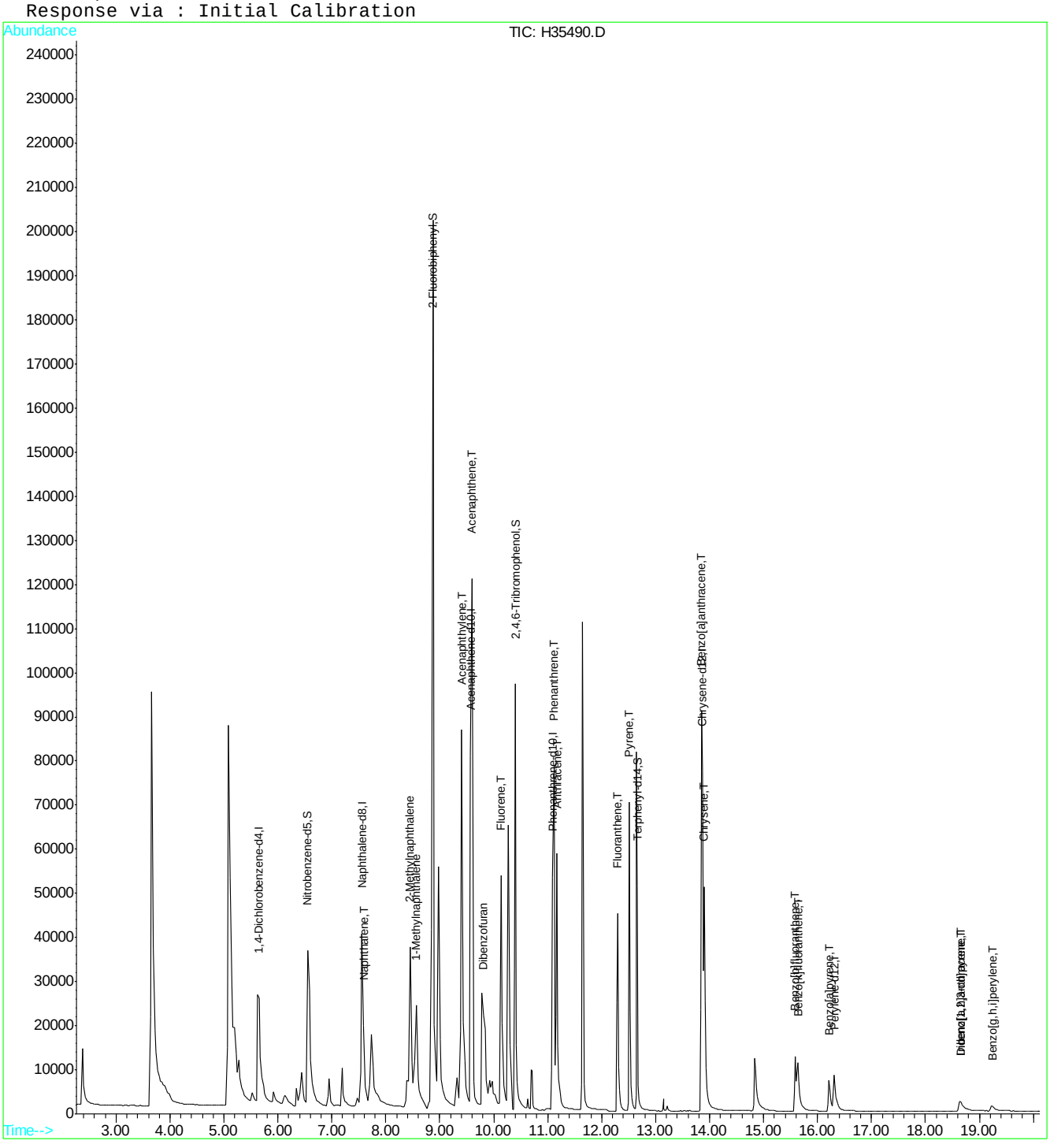
							Qvalue
6) Naphthalene	7.59	128	48873	2.40	ppb	#	78
7) 2-Methylnaphthalene	8.45	142	51835m	2.85	ppb		
8) 1-Methylnaphthalene	8.56	142	54064	2.16	ppb	#	95
11) Acenaphthylene	9.41	152	118344	2.63	ppb		96
12) Acenaphthene	9.60	153	77080	2.25	ppb		95
13) Dibenzofuran	9.81	168	58455	2.02	ppb	#	87
14) Fluorene	10.13	166	45101	2.09	ppb		87
18) Phenanthrene	11.11	178	77209m	2.34	ppb		
19) Anthracene	11.17	178	85732m	2.60	ppb		
20) Fluoranthene	12.29	202	78097	2.43	ppb	#	84
22) Pyrene	12.51	202	92386	2.49	ppb		97
24) Benzo[a]anthracene	13.85	228	61267	2.56	ppb		95
25) Chrysene	13.90	228	59297	2.49	ppb		95
27) Benzo[b]fluoranthene	15.59	252	19923	2.51	ppb		96
28) Benzo[k]fluoranthene	15.64	252	31581m	2.98	ppb		
29) Benzo[a]pyrene	16.21	252	19397	3.01	ppb		97
30) Indeno[1,2,3-cd]pyrene	18.65	276	6931	3.18	ppb		100
31) Dibenz[a,h]anthracene	18.65	278	4530	3.33	ppb		99
32) Benzo[g,h,i]perylene	19.24	276	4732	2.94	ppb		96

(#) = qualifier out of range (m) = manual integration
H35490.D H10209SP.M Tue Oct 20 14:48:47 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35490.D Vial: 8
Acq On : 20 Oct 2009 1:34 pm Operator: sheilac
Sample : icc1917-2.5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:47 2009 Quant Results File: H10209SP.RES

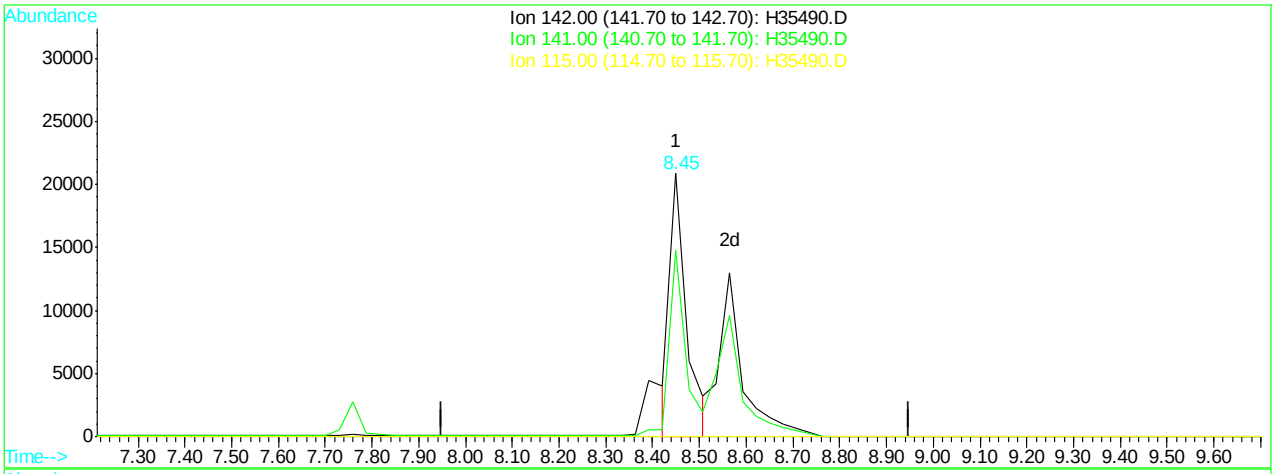
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Initial Calibration

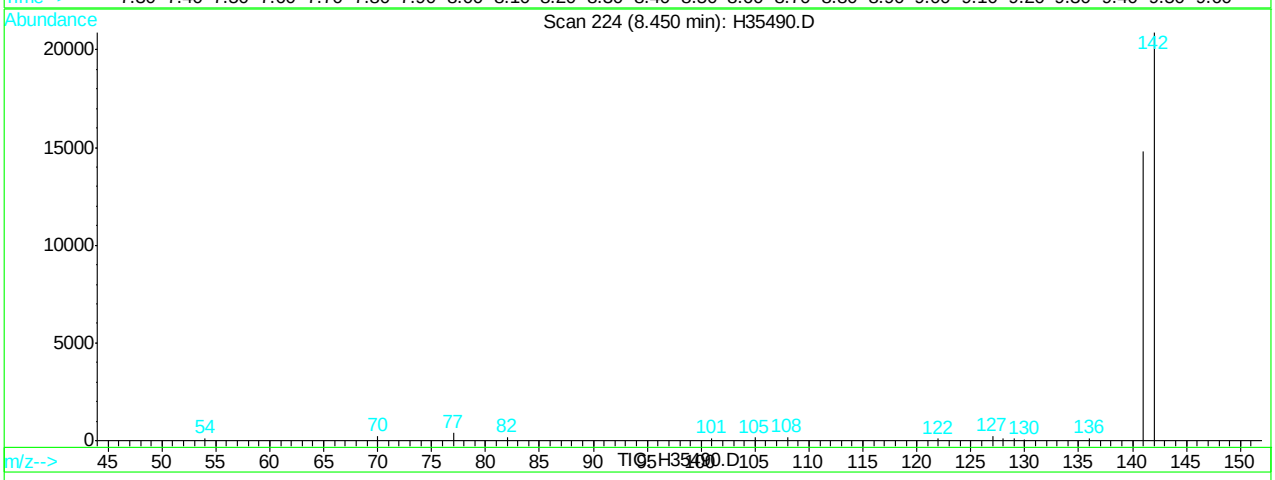


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35490.D Vial: 8
Acq On : 20 Oct 2009 1:34 pm Operator: sheilac
Sample : icc1917-2.5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.45min 2.85ppb m

response 51835

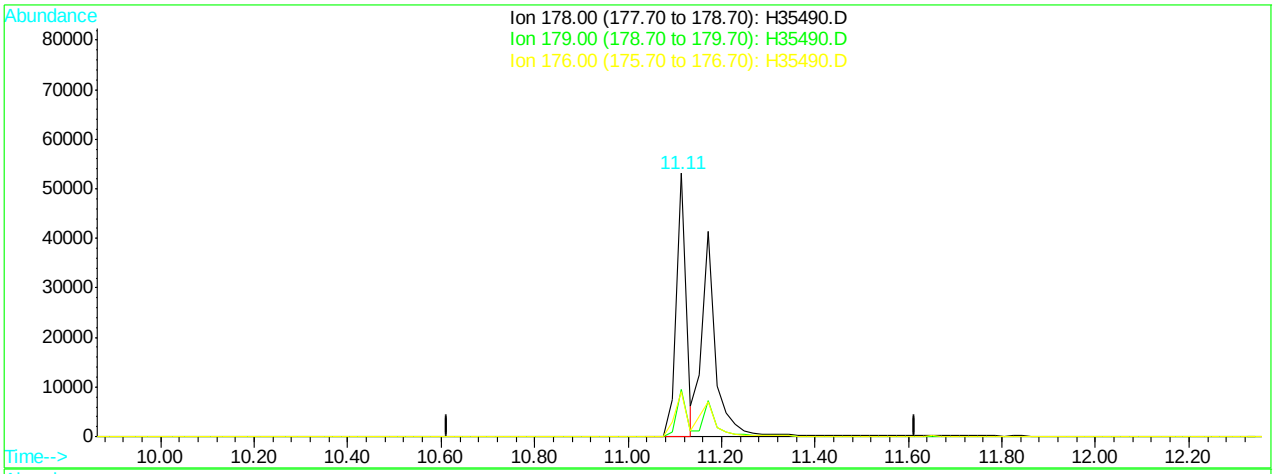
Ion	Exp%	Act%
142.00	100	100
141.00	69.80	71.03
115.00	0.00	0.00
0.00	0.00	0.00

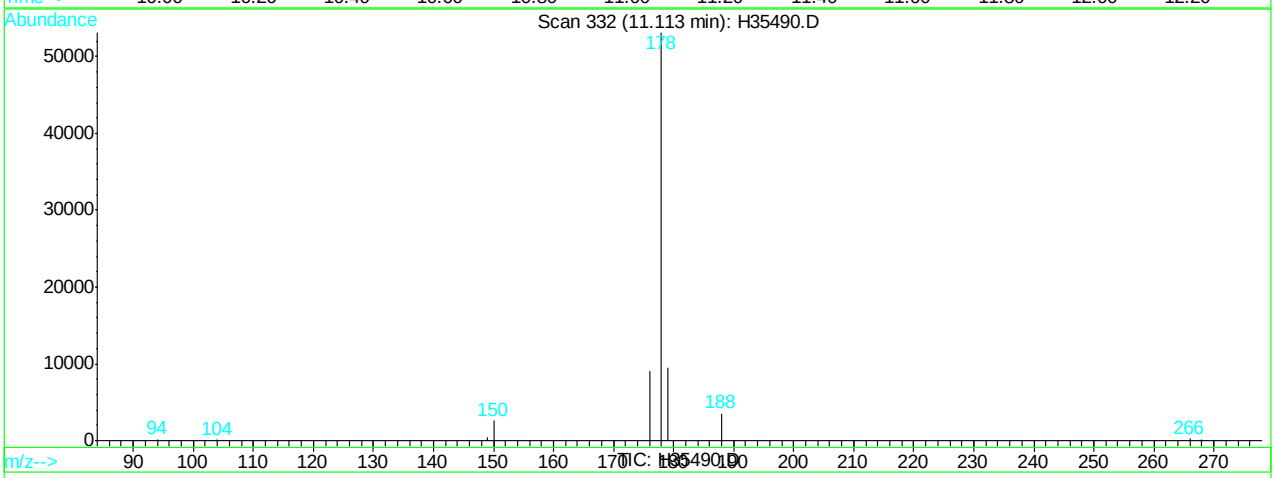
H35490.D H10209SP.M Tue Oct 20 14:49:38 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35490.D Vial: 8
Acq On : 20 Oct 2009 1:34 pm Operator: sheilac
Sample : icc1917-2.5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 2.34ppb m

response 77209

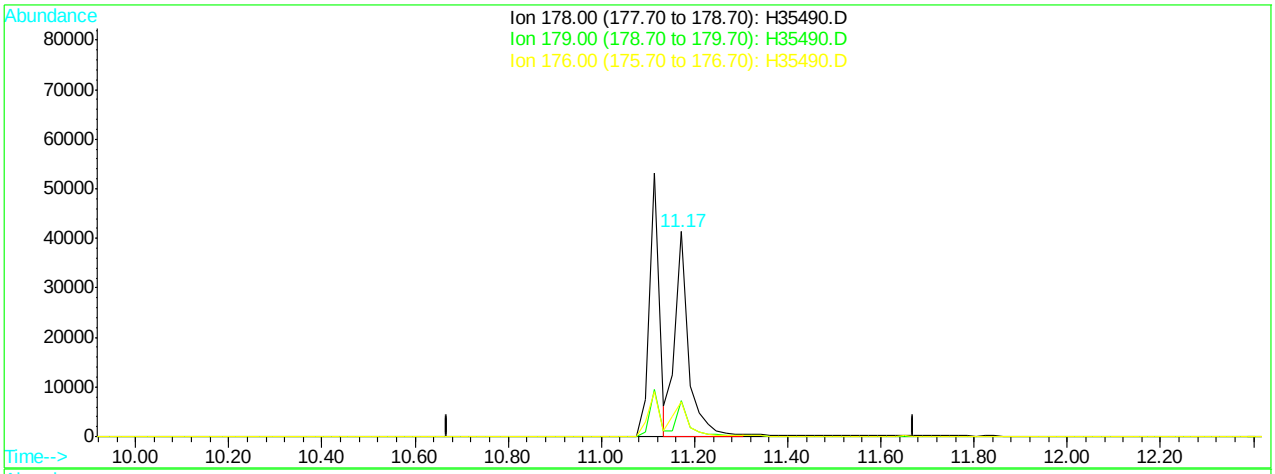
Ion	Exp%	Act%
178.00	100	100
179.00	18.50	17.80
176.00	16.30	17.06
0.00	0.00	0.00

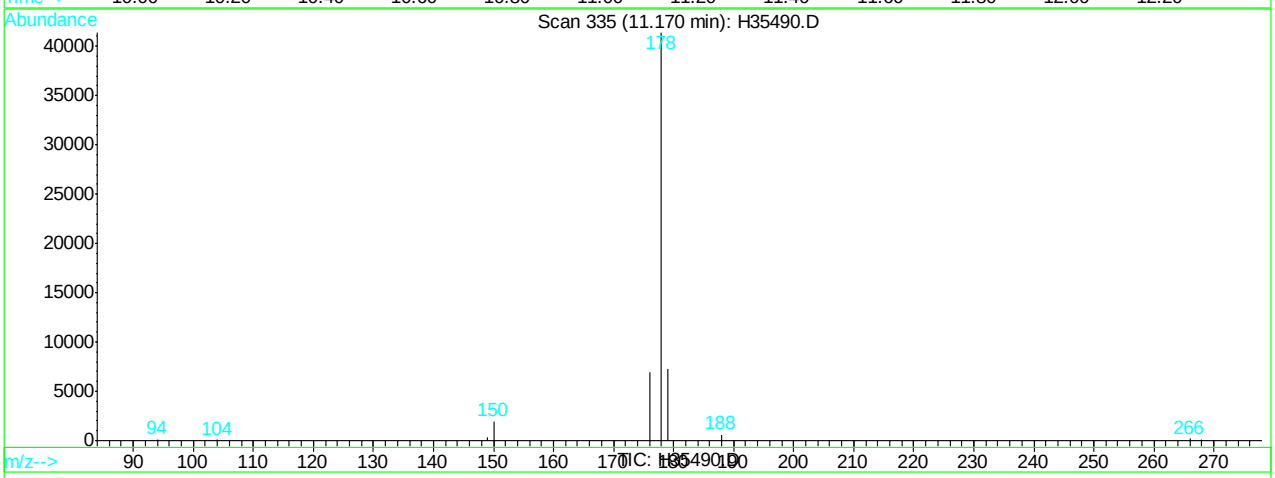
H35490.D H10209SP.M Tue Oct 20 14:49:42 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35490.D Vial: 8
Acq On : 20 Oct 2009 1:34 pm Operator: sheilac
Sample : icc1917-2.5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 2.60ppb m

response 85732

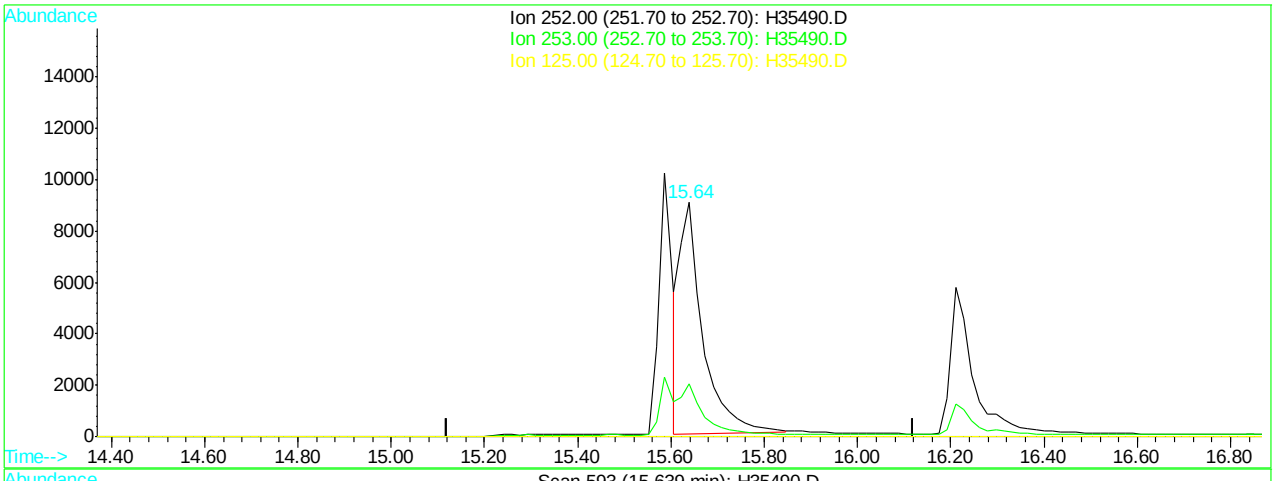
Ion	Exp%	Act%
178.00	100	100
179.00	19.10	17.63
176.00	16.60	16.74
0.00	0.00	0.00

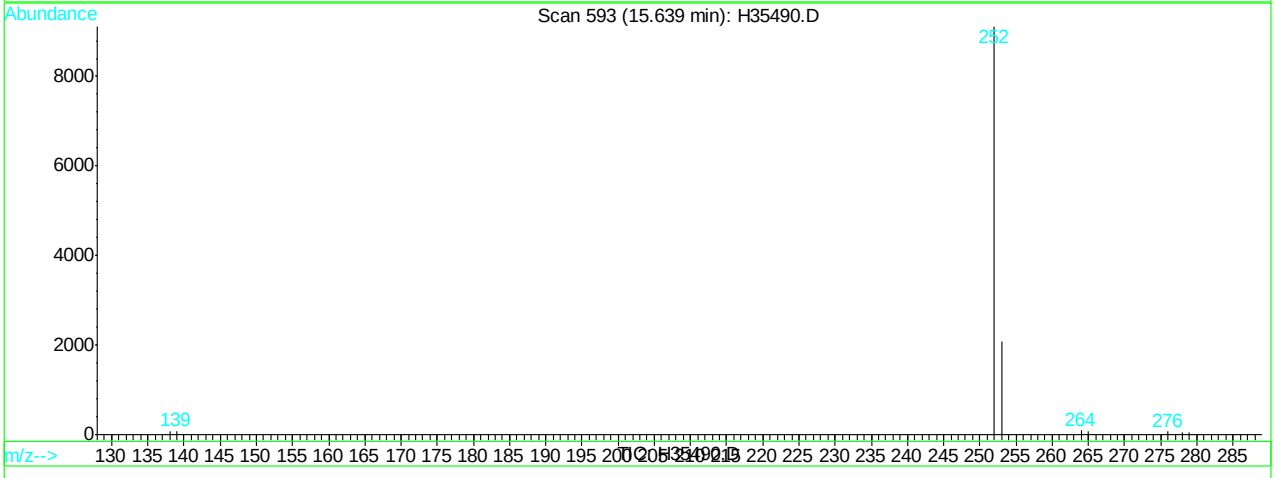
H35490.D H10209SP.M Tue Oct 20 14:49:46 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35490.D Vial: 8
Acq On : 20 Oct 2009 1:34 pm Operator: sheilac
Sample : icc1917-2.5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:47 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.64min 2.98ppb m

response 31581

Ion	Exp%	Act%
252.00	100	100
253.00	20.80	22.76
125.00	0.00	0.00
0.00	0.00	0.00

H35490.D H10209SP.M Tue Oct 20 14:49:49 2009

Manual Integrations APPROVED (compounds with "m" flag)
Richard Rodriguez
10/21/09 17:36

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\EH1917\H35491.D Vial: 9
Acq On : 20 Oct 2009 1:58 pm Operator: sheilac
Sample : icv1917-2.5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:30 2009 Quant Results File: H10209SP.RES

Quant Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:27:24 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	119758	4.00	ppb	-0.02
4) Naphthalene-d8	7.56	136	69526	4.00	ppb	0.00
9) Acenaphthene-d10	9.57	164	79659	4.00	ppb	0.00
15) Phenanthrene-d10	11.09	188	76036	4.00	ppb	0.00
21) Chrysene-d12	13.87	240	84064	4.00	ppb	0.00
26) Perylene-d12	16.31	264	28508	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	0	0.00	ppb	
Spiked Amount 5.000	Range 15 - 137		Recovery	=	0.00%#	
16) 2,4,6-Tribromophenol	0.00	330	0	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

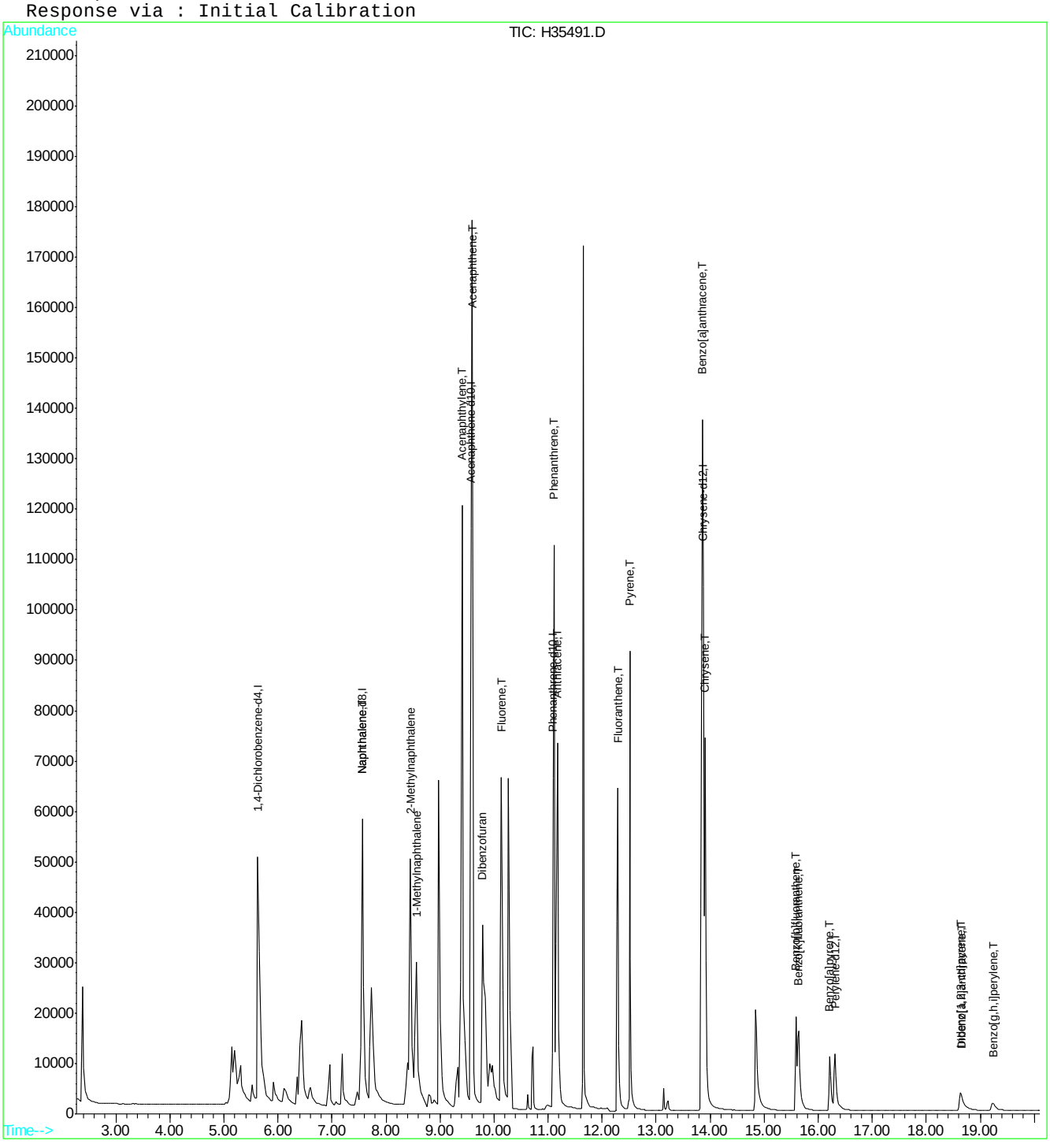
							Qvalue
6) Naphthalene	7.56	128	60971	2.15	ppb	#	72
7) 2-Methylnaphthalene	8.45	142	67247m	2.22	ppb		
8) 1-Methylnaphthalene	8.56	142	63278	1.98	ppb	#	98
11) Acenaphthylene	9.41	152	160795	2.58	ppb		99
12) Acenaphthene	9.60	153	113674	2.39	ppb		94
13) Dibenzofuran	9.78	168	72102	1.99	ppb		96
14) Fluorene	10.13	166	53711	2.05	ppb		98
18) Phenanthrene	11.11	178	106602m	2.60	ppb		
19) Anthracene	11.17	178	108987m	2.52	ppb		
20) Fluoranthene	12.29	202	109462	2.67	ppb		99
22) Pyrene	12.51	202	123628	2.60	ppb		100
24) Benzo[a]anthracene	13.85	228	88413	2.88	ppb		99
25) Chrysene	13.90	228	77432	2.53	ppb		98
27) Benzo[b]fluoranthene	15.59	252	30342	2.55	ppb		99
28) Benzo[k]fluoranthene	15.64	252	44888m	2.93	ppb		
29) Benzo[a]pyrene	16.21	252	26517	2.41	ppb		100
30) Indeno[1,2,3-cd]pyrene	18.63	276	9411	2.49	ppb		96
31) Dibenz[a,h]anthracene	18.65	278	6518	2.69	ppb		96
32) Benzo[g,h,i]perylene	19.24	276	6958	2.57	ppb		98

(#) = qualifier out of range (m) = manual integration
H35491.D H10209SP.M Tue Oct 20 14:50:02 2009

Quantitation Report

Data File : C:\HPCHEM\1\DATA\EH1917\H35491.D Vial: 9
Acq On : 20 Oct 2009 1:58 pm Operator: sheilac
Sample : icv1917-2.5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:30 2009 Quant Results File: H10209SP.RES

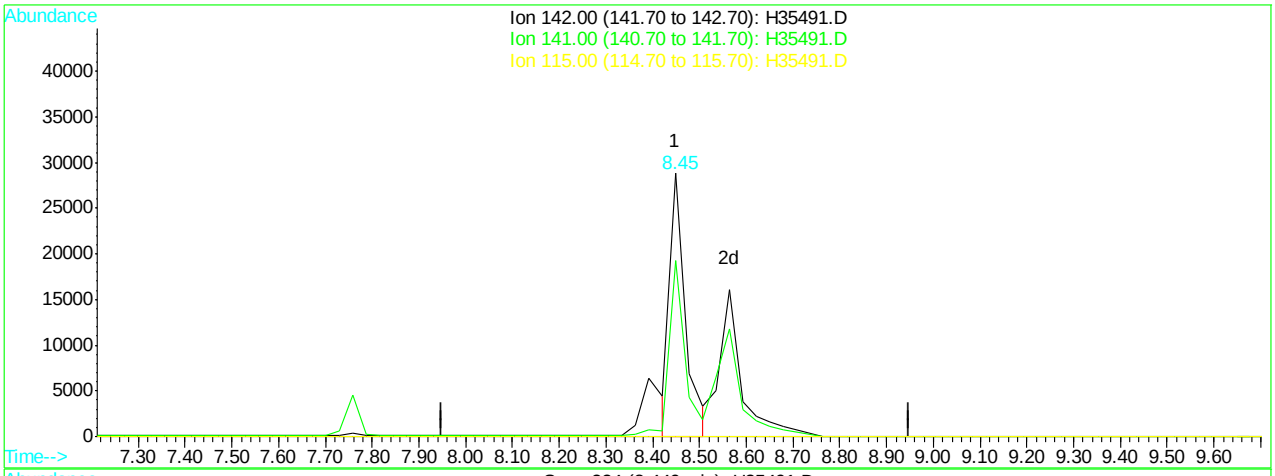
Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:49:56 2009
Response via : Initial Calibration

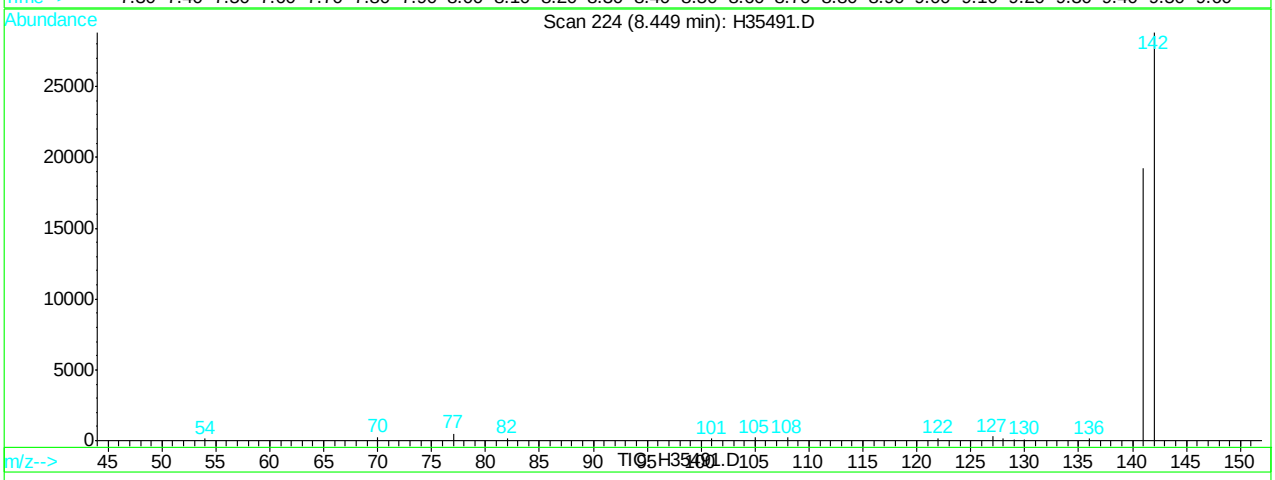


Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35491.D Vial: 9
Acq On : 20 Oct 2009 1:58 pm Operator: sheilac
Sample : icv1917-2.5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:30 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:49:56 2009
Response via : Multiple Level Calibration





(7) 2-Methylnaphthalene

8.45min 2.22ppb m

response 67247

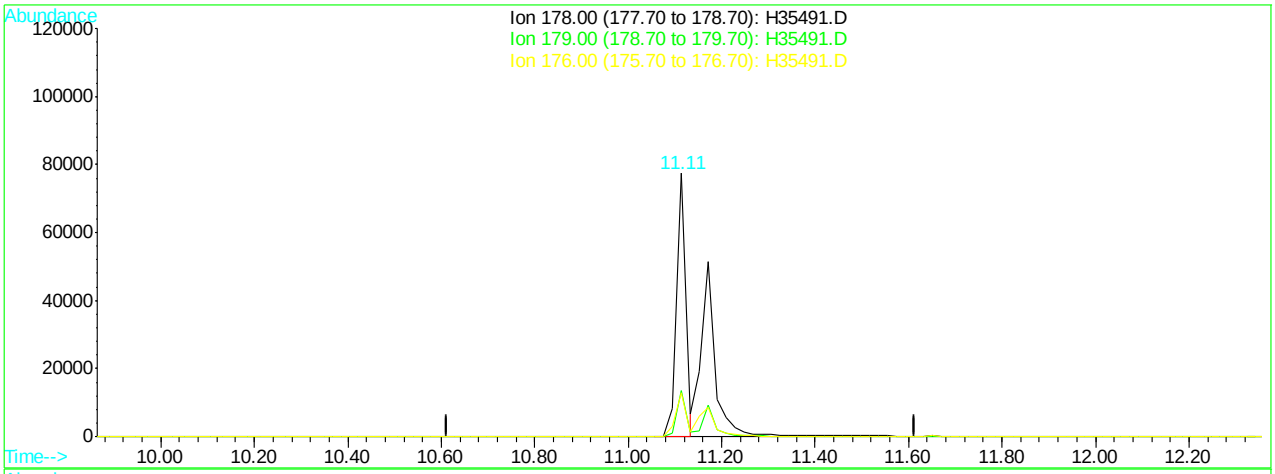
Ion	Exp%	Act%
142.00	100	100
141.00	71.00	68.94
115.00	0.00	0.00
0.00	0.00	0.00

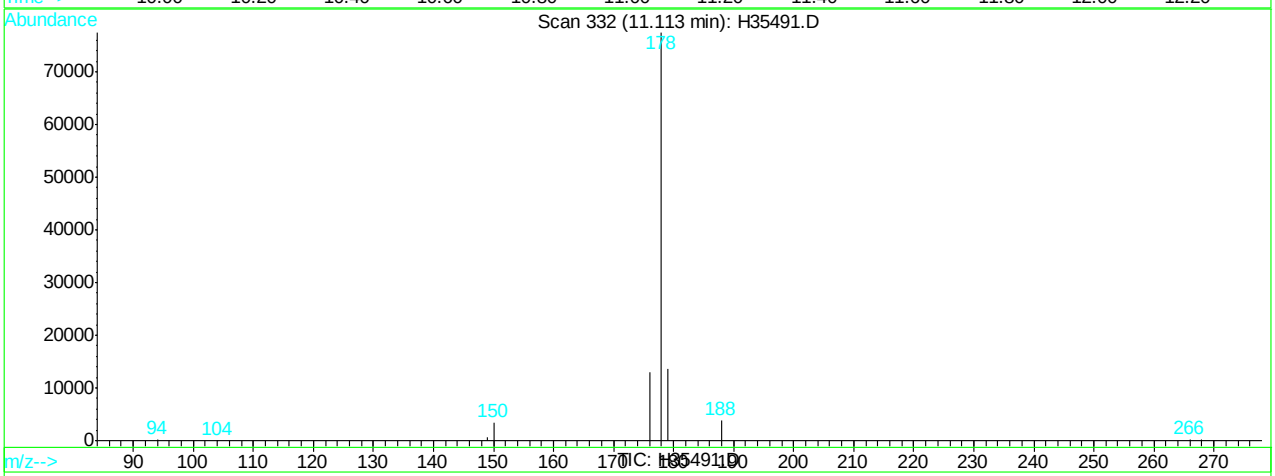
H35491.D H10209SP.M Tue Oct 20 14:50:19 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35491.D Vial: 9
Acq On : 20 Oct 2009 1:58 pm Operator: sheilac
Sample : icv1917-2.5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:30 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:49:56 2009
Response via : Multiple Level Calibration





(18) Phenanthrene (T)

11.11min 2.60ppb m

response 106602

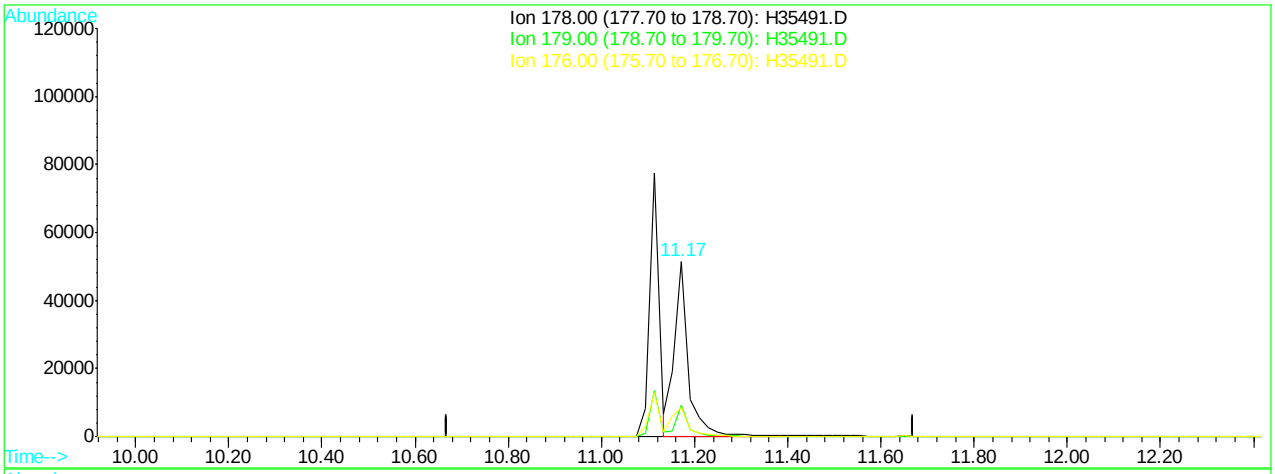
Ion	Exp%	Act%
178.00	100	100
179.00	17.80	17.58
176.00	17.10	16.76
0.00	0.00	0.00

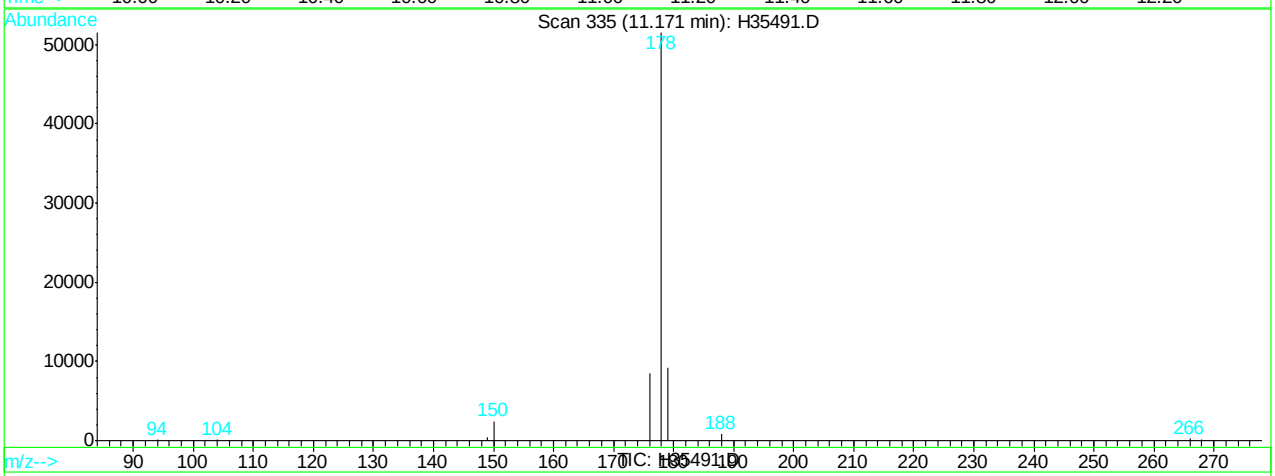
H35491.D H10209SP.M Tue Oct 20 14:50:24 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35491.D Vial: 9
Acq On : 20 Oct 2009 1:58 pm Operator: sheilac
Sample : icv1917-2.5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:30 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:49:56 2009
Response via : Multiple Level Calibration





(19) Anthracene (T)

11.17min 2.52ppb m

response 108987

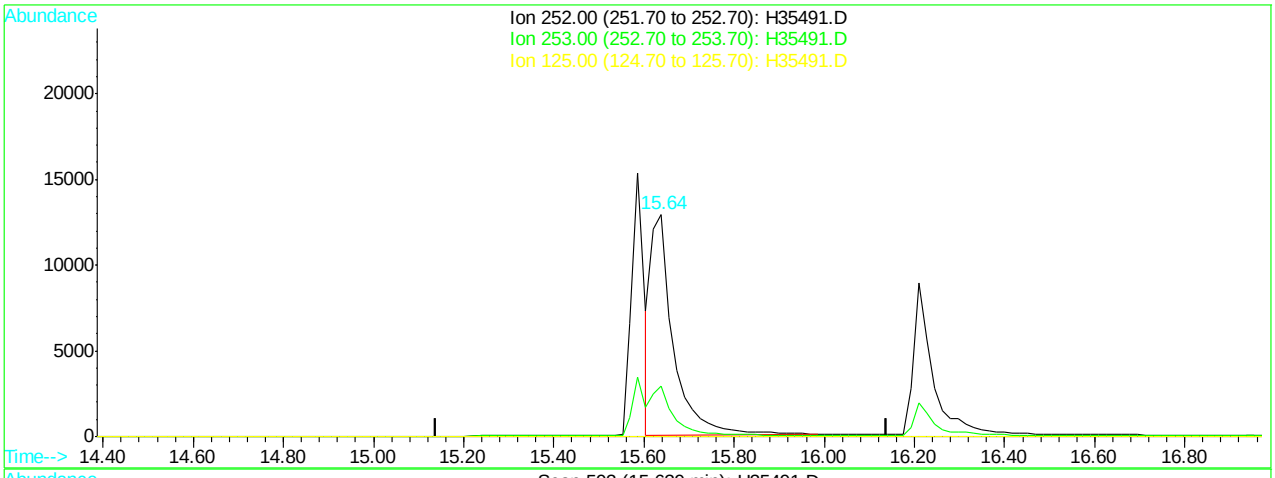
Ion	Exp%	Act%
178.00	100	100
179.00	17.60	17.97
176.00	16.70	16.37
0.00	0.00	0.00

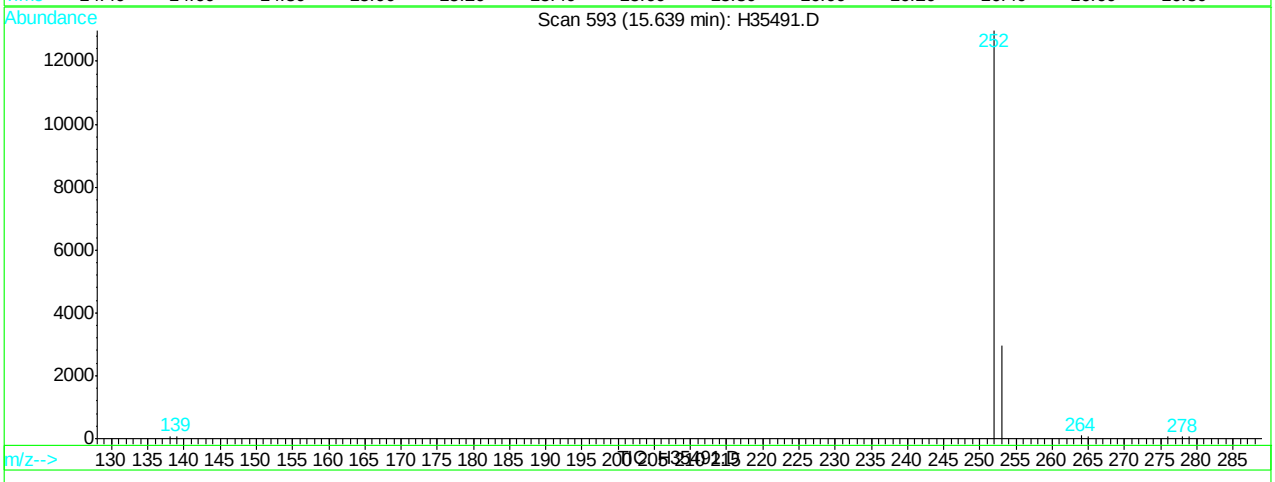
H35491.D H10209SP.M Tue Oct 20 14:50:28 2009

Quantitation Report (Qedit)

Data File : C:\HPCHEM\1\DATA\EH1917\H35491.D Vial: 9
Acq On : 20 Oct 2009 1:58 pm Operator: sheilac
Sample : icv1917-2.5 Inst : TXMSH
Misc : OP12779,EH1917,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:30 2009 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\H10209SP.M (RTE Integrator)
Title : SIM METHOD FOR BNA
Last Update : Tue Oct 20 14:49:56 2009
Response via : Multiple Level Calibration





(28) Benzo[k]fluoranthene (T)

15.64min 2.93ppb m

response 44888

Ion	Exp%	Act%
252.00	100	100
253.00	22.80	22.79
125.00	0.00	0.00
0.00	0.00	0.00

H35491.D H10209SP.M Tue Oct 20 14:50:34 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

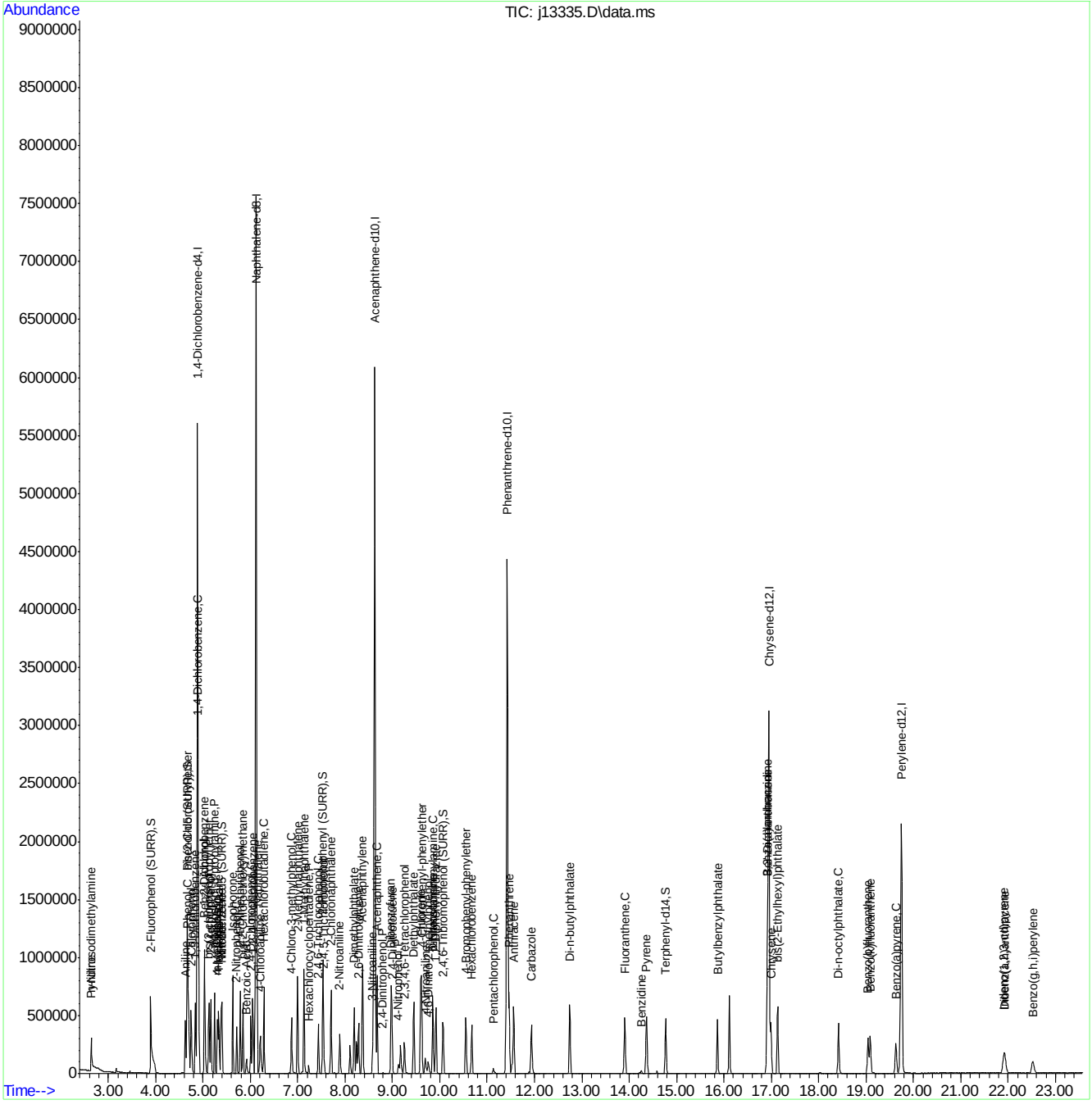
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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

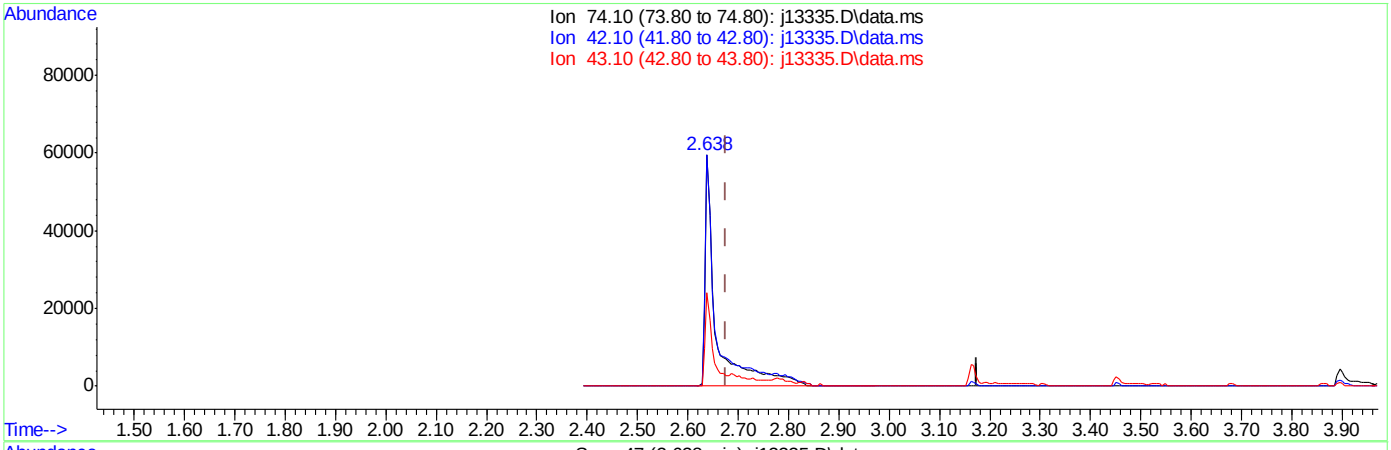


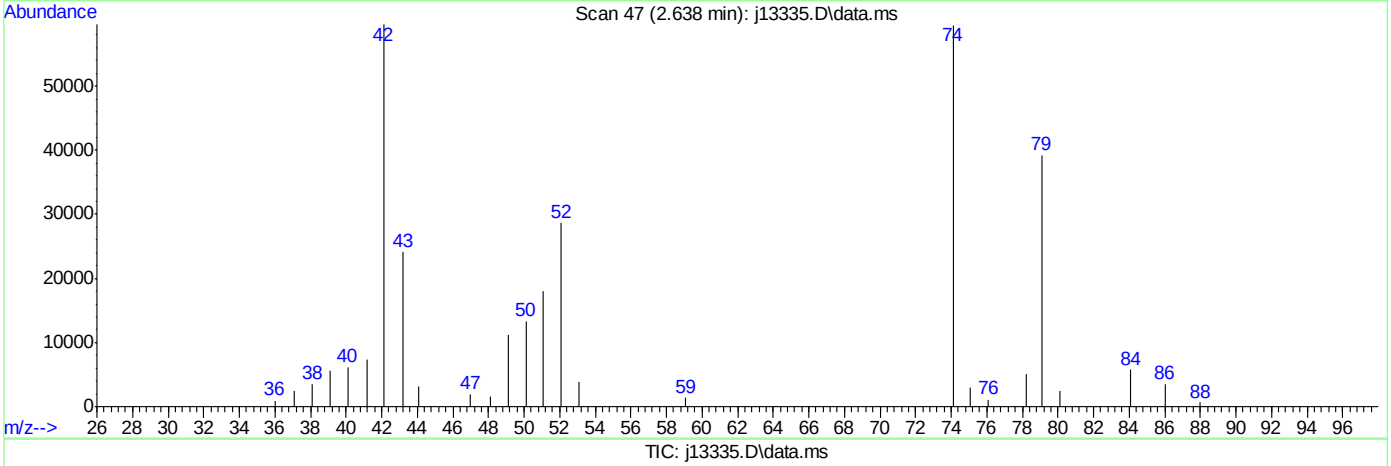
ACCUTEST Laboratories T39169

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

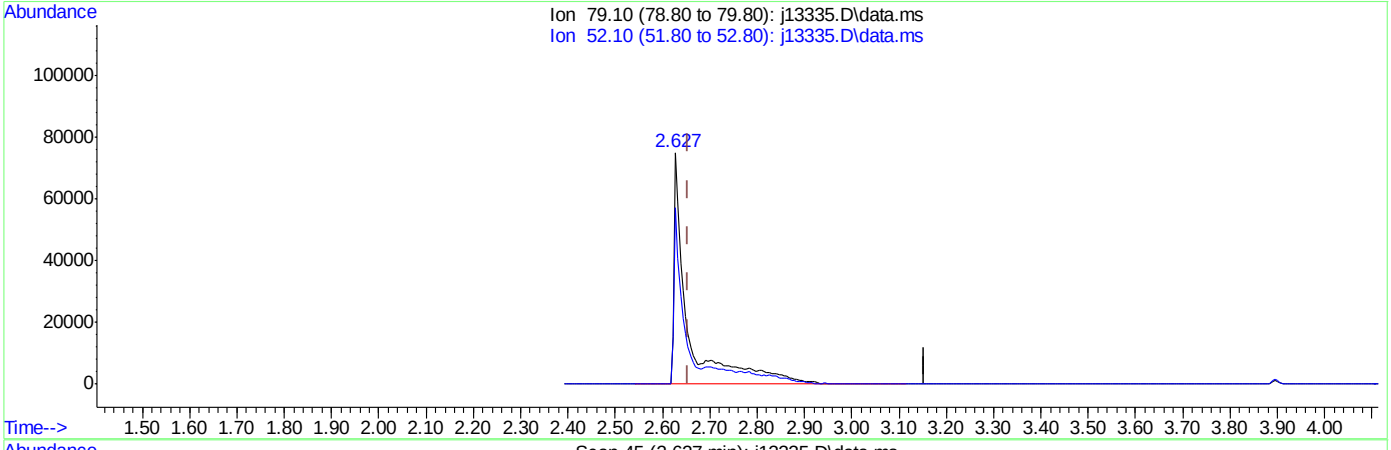
response 93609

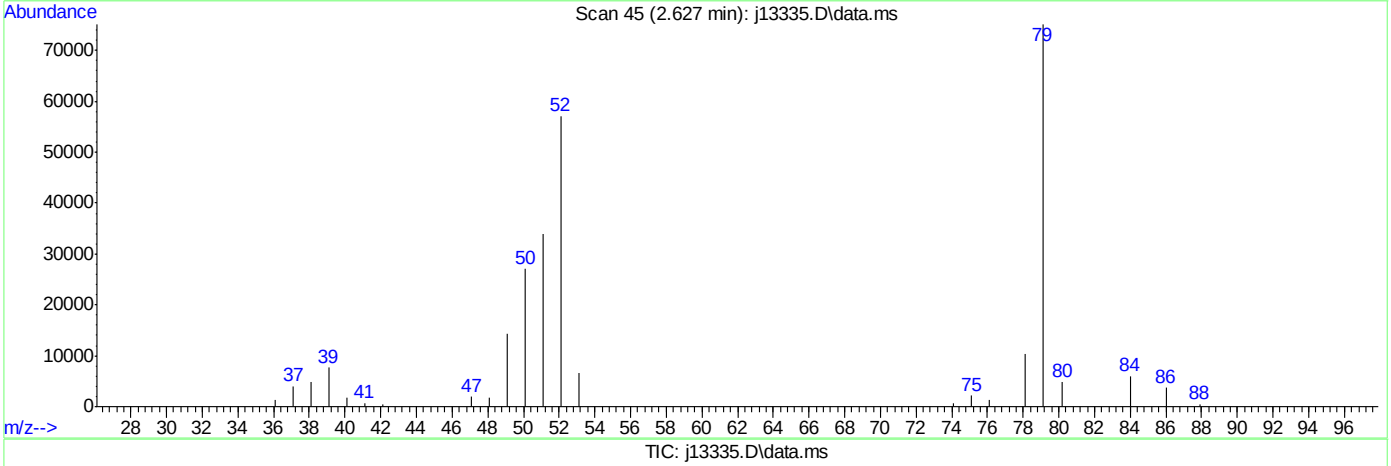
Ion	Exp%	Act%
74.10	100	100
42.10	97.90	93.95
43.10	40.50	28.18
0.00	0.00	0.00

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

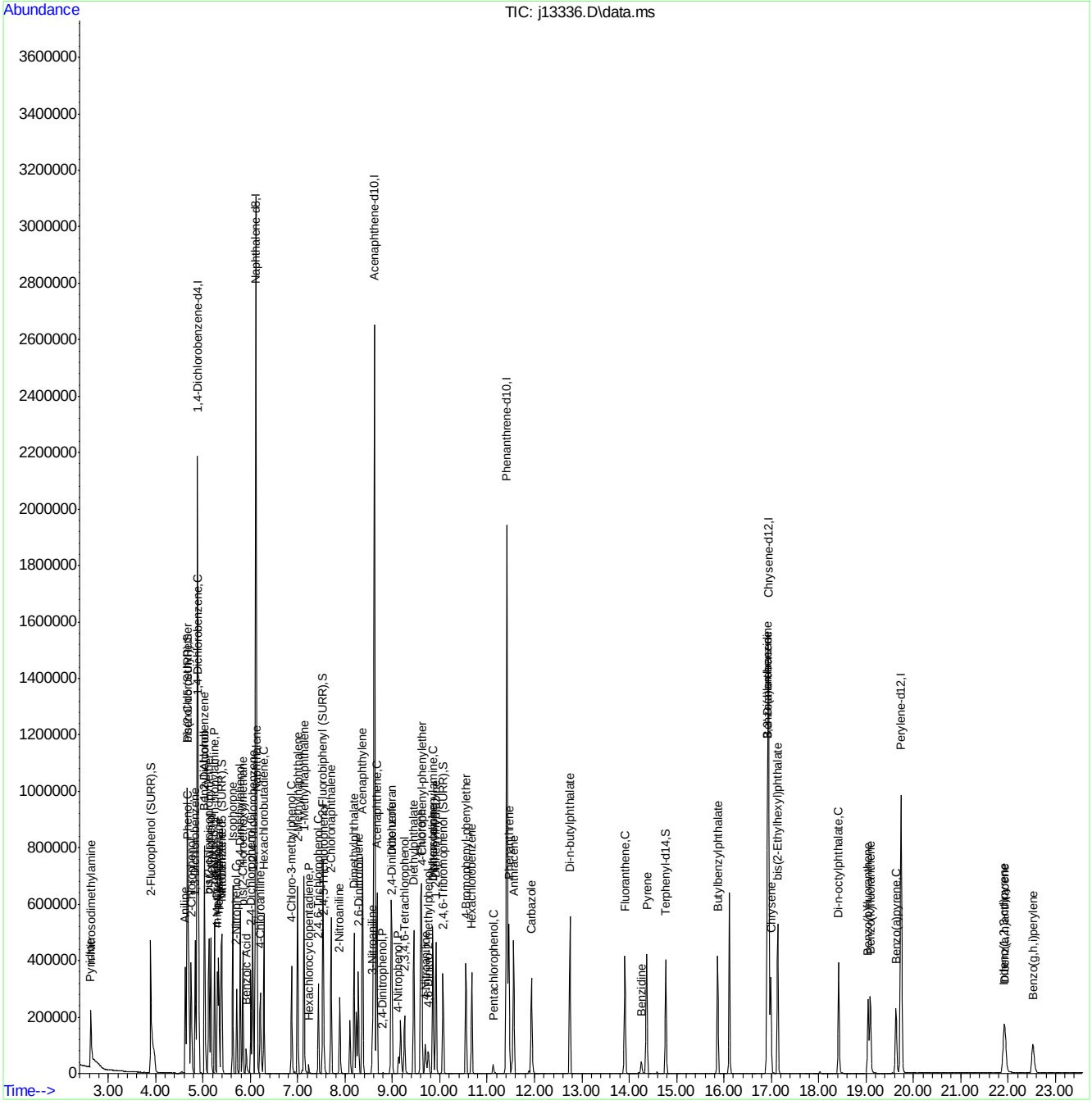
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = 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 T39169

Quantitation Report (Qedit)

```
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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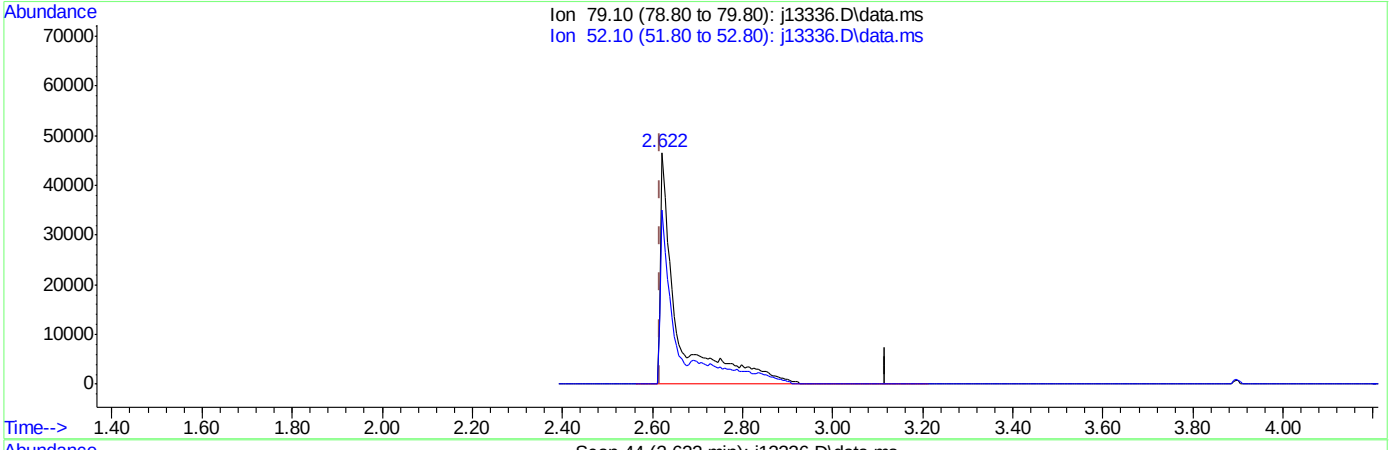
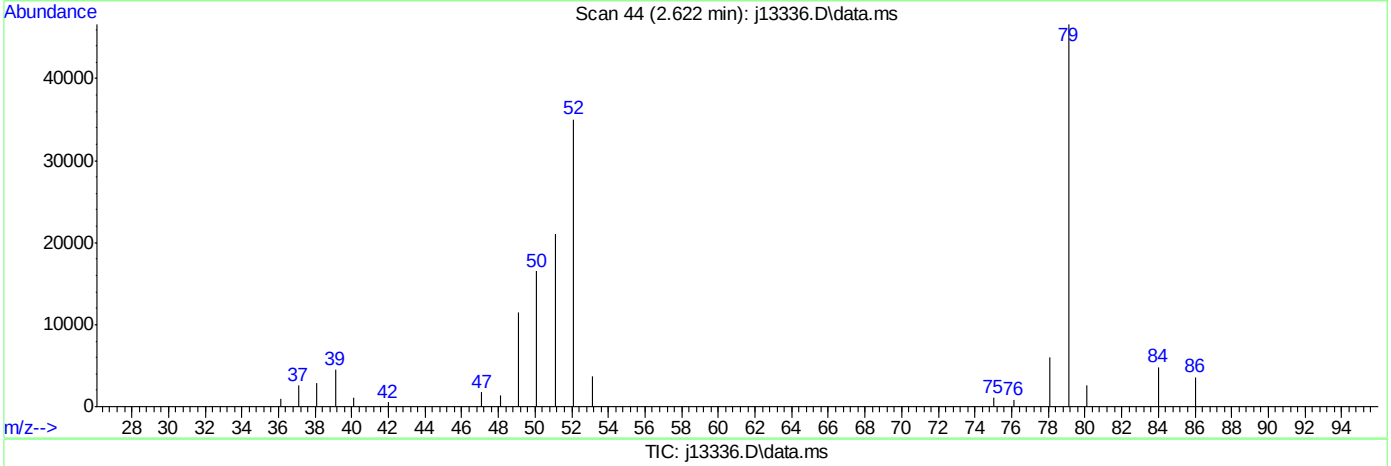




TIC: j13336.D\data.ms

(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

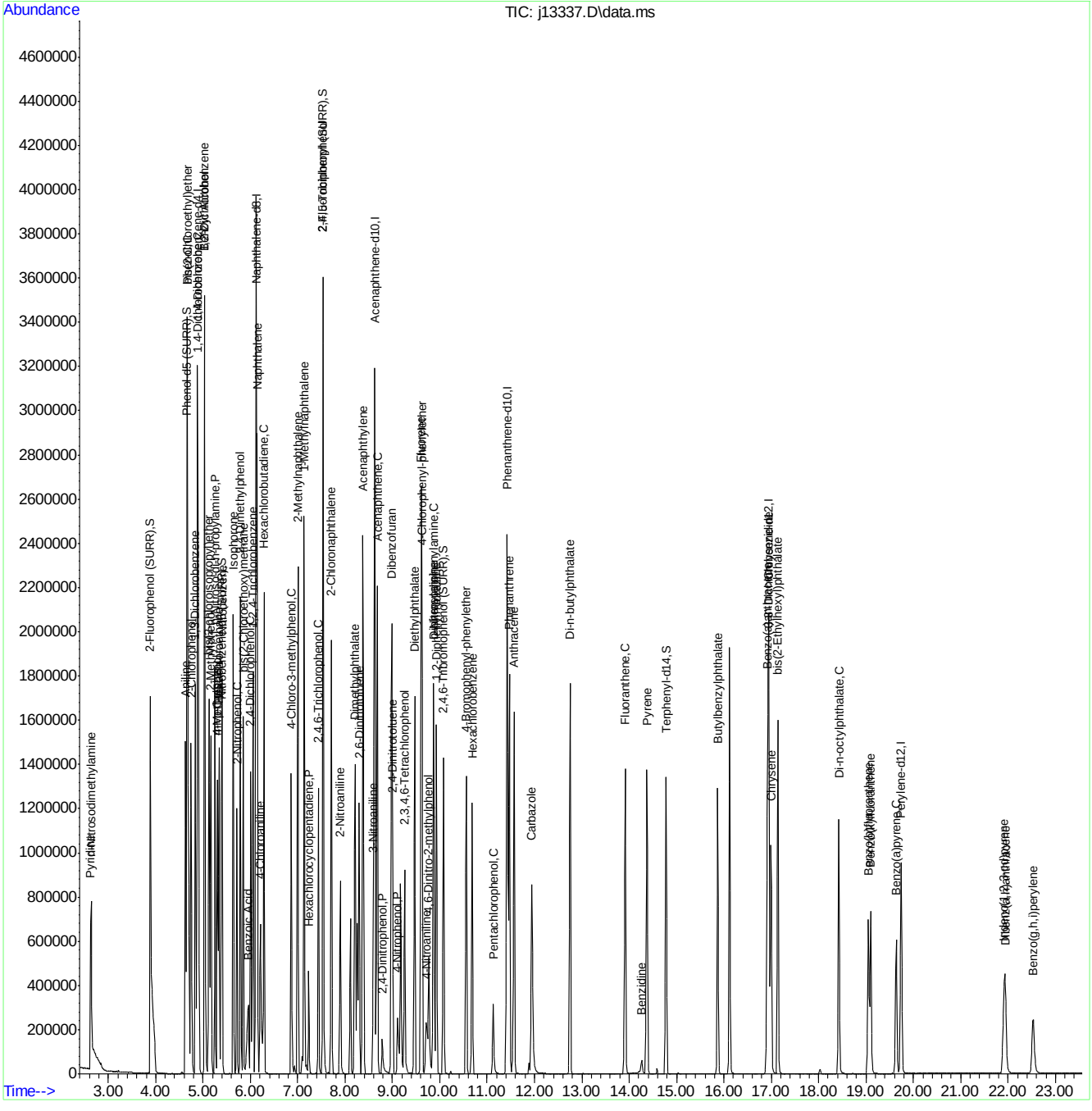
8.6.10

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

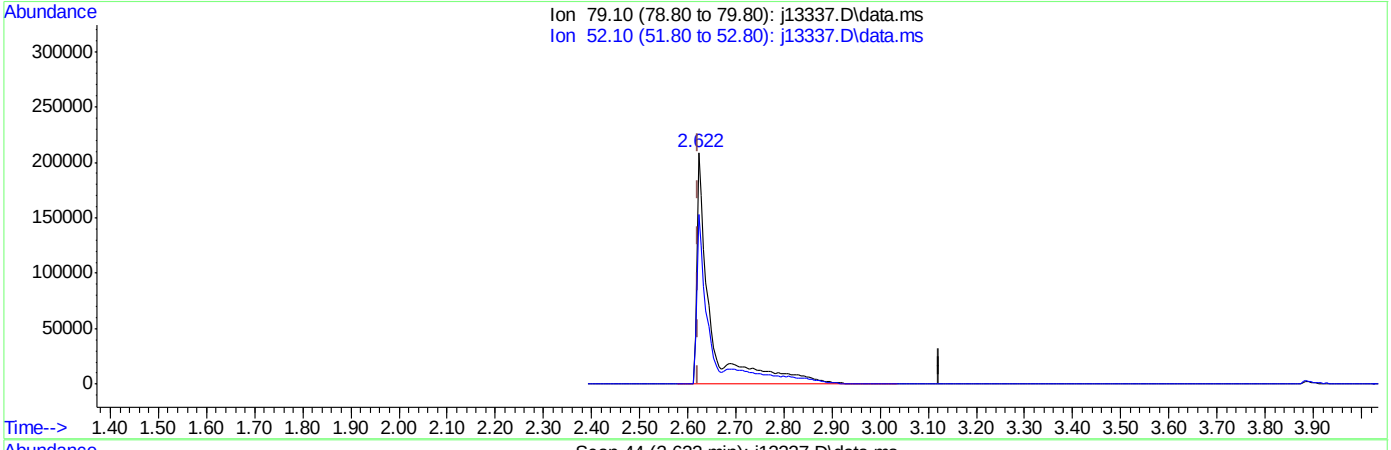


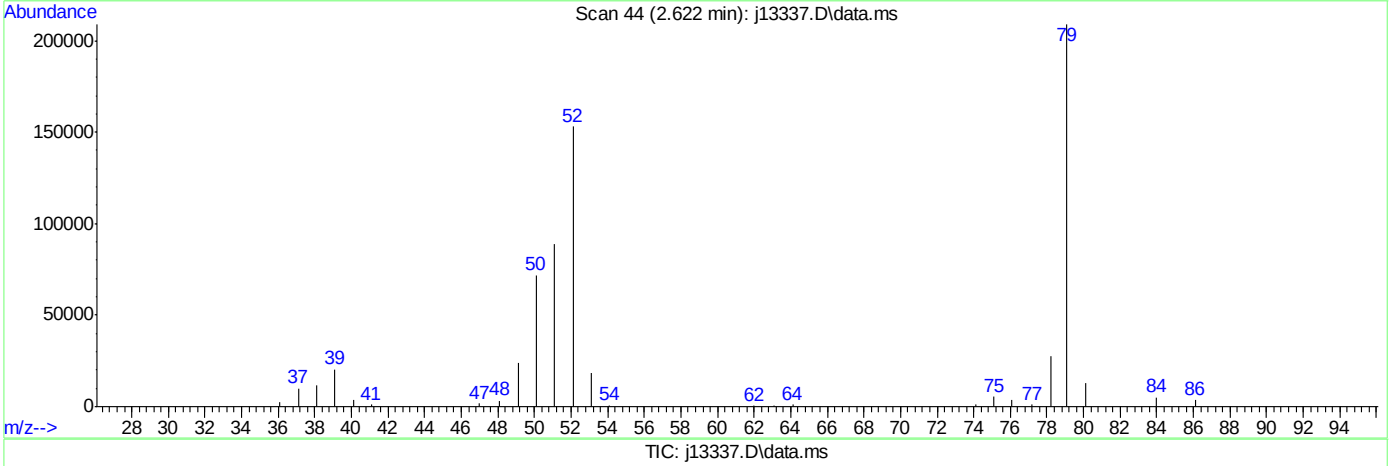
ACCUTEST Laboratories T39169

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





(3) Pyridine

2.622min (+0.000) 21.64ug/ml m

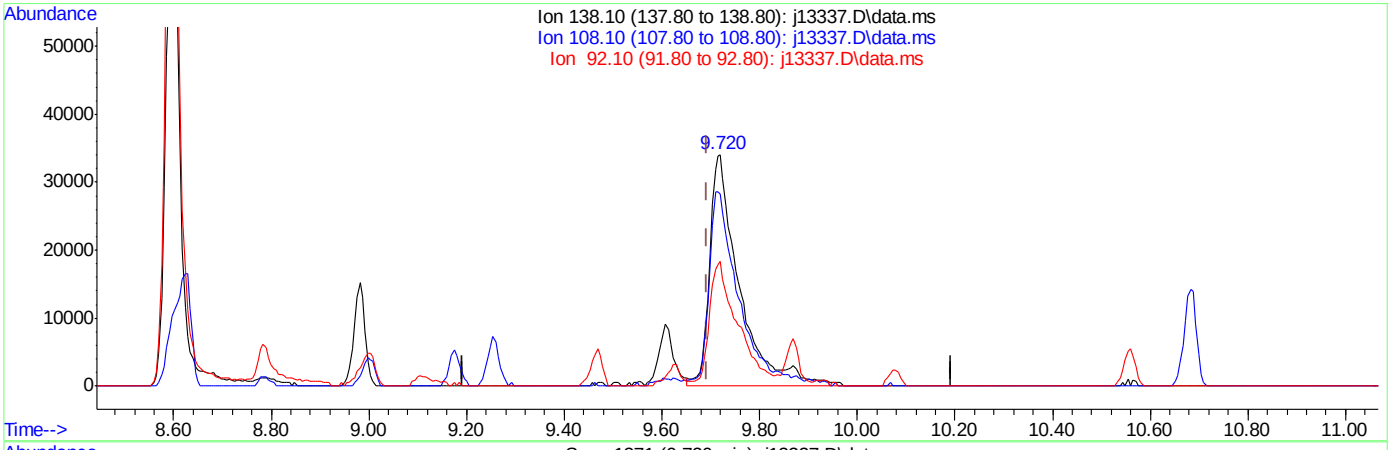
response 412969

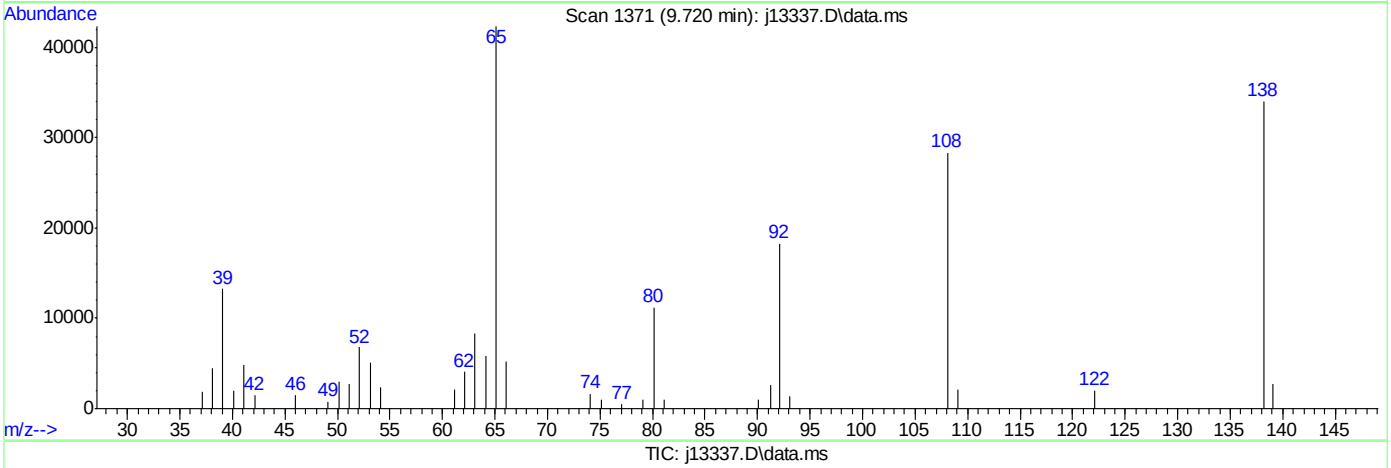
Ion	Exp%	Act%
79.10	100	100
52.10	48.30	48.26
0.00	0.00	0.00
0.00	0.00	0.00

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

ACCUTEST Laboratories T39169

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)

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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)

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Operator : sheilac
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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

8.6.11

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej615\
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Acq On : 23 Sep 2009 1:22 pm
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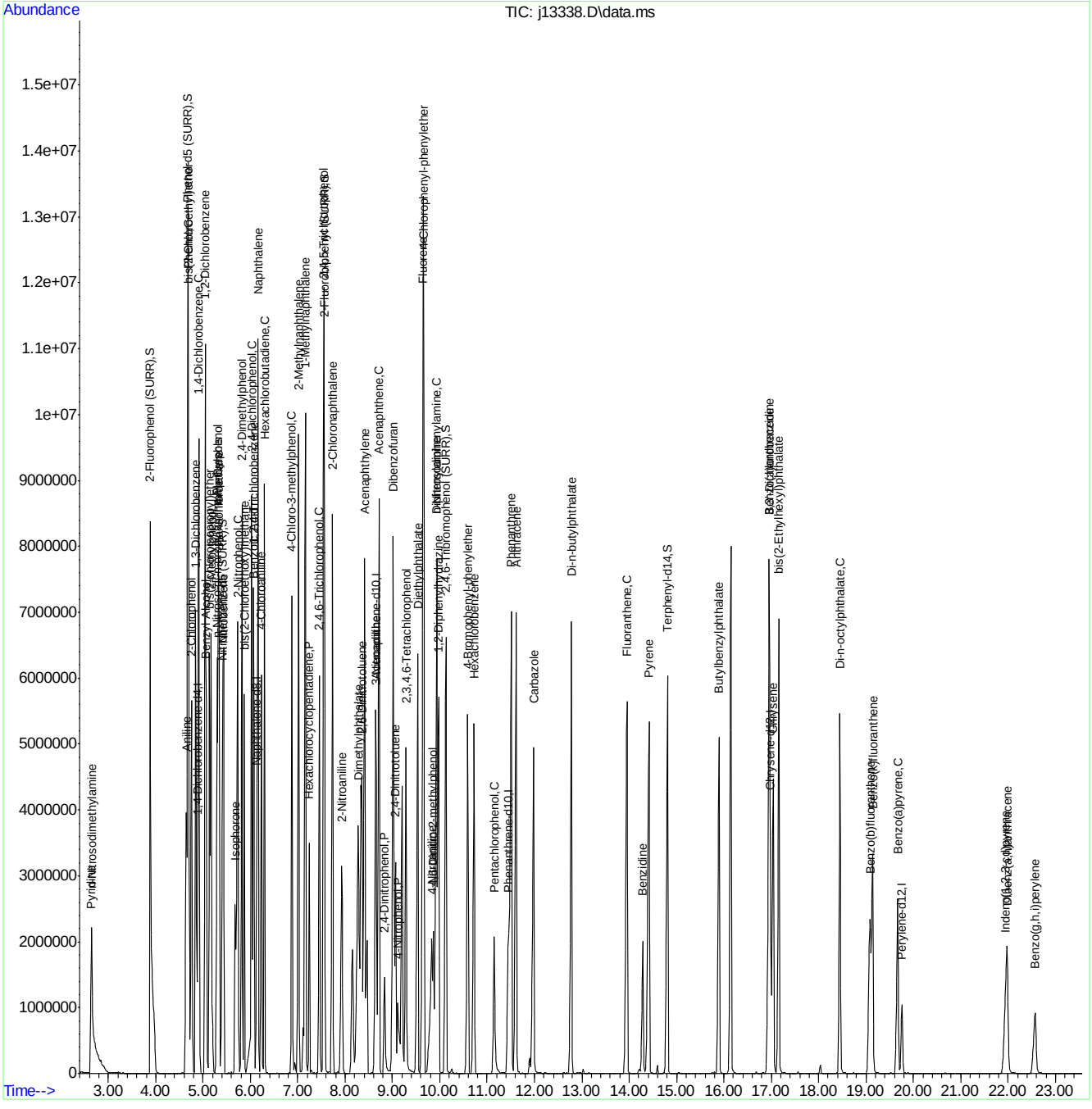
Misc : op12949,Ej615,1000,,,1,1,water
ALS Vial : 7 Sample Multiplier: 1

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

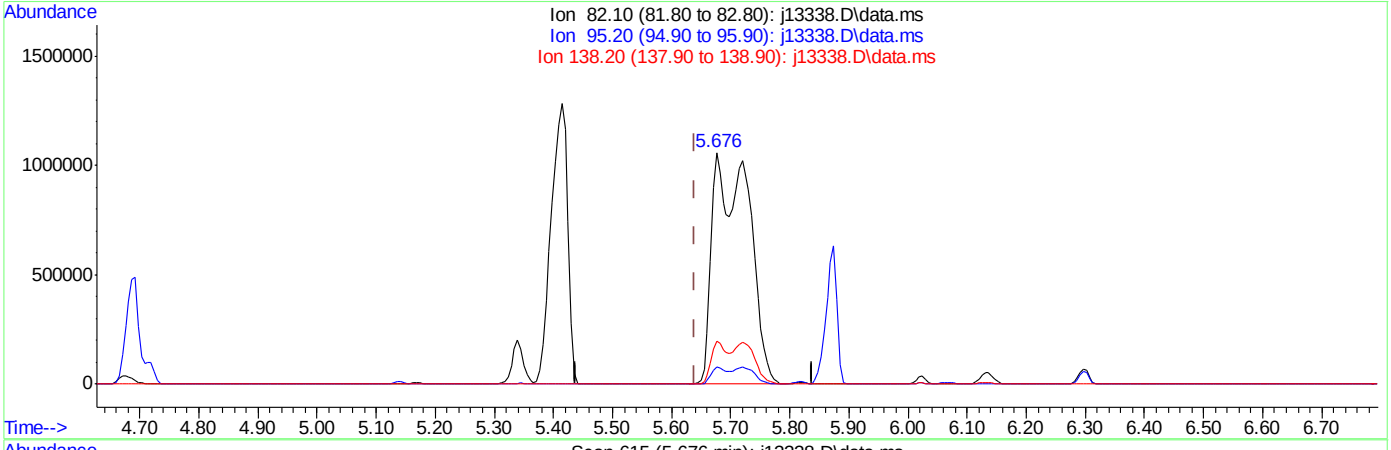


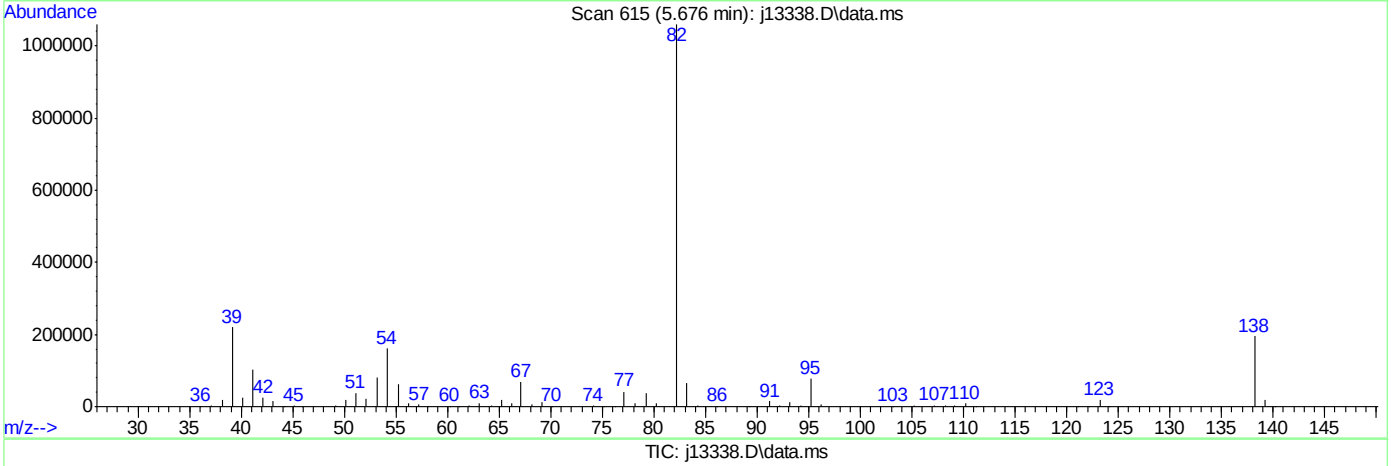
ACCUTEST Laboratories T39169

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
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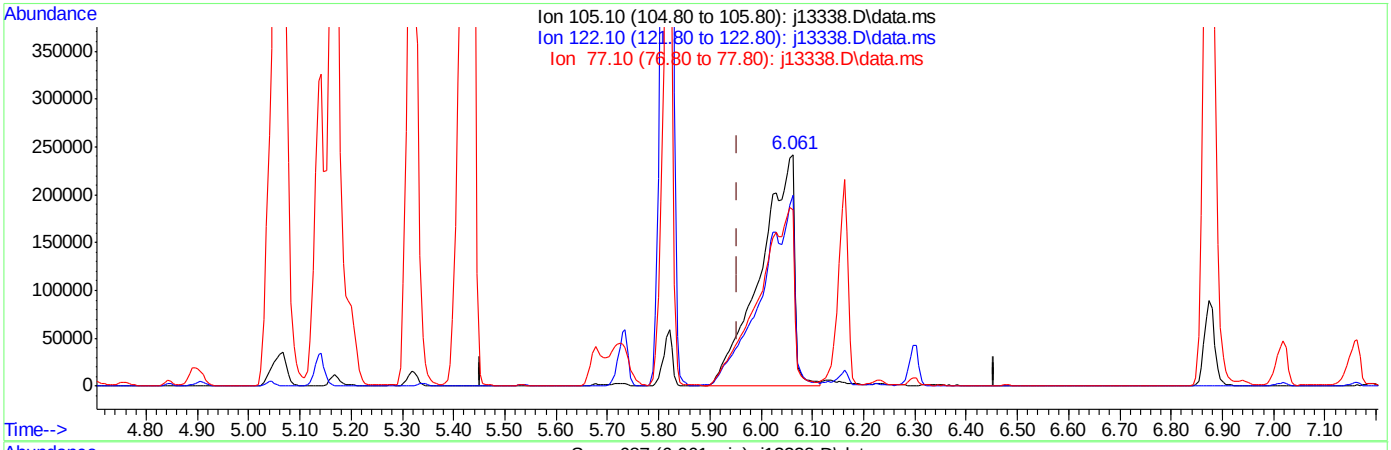

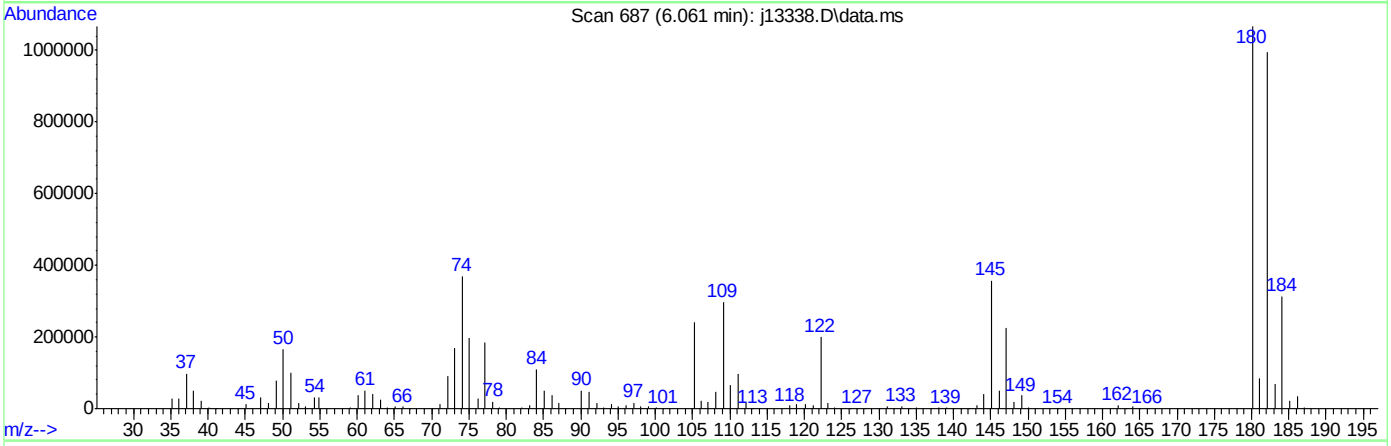

(27) Benzoic Acid

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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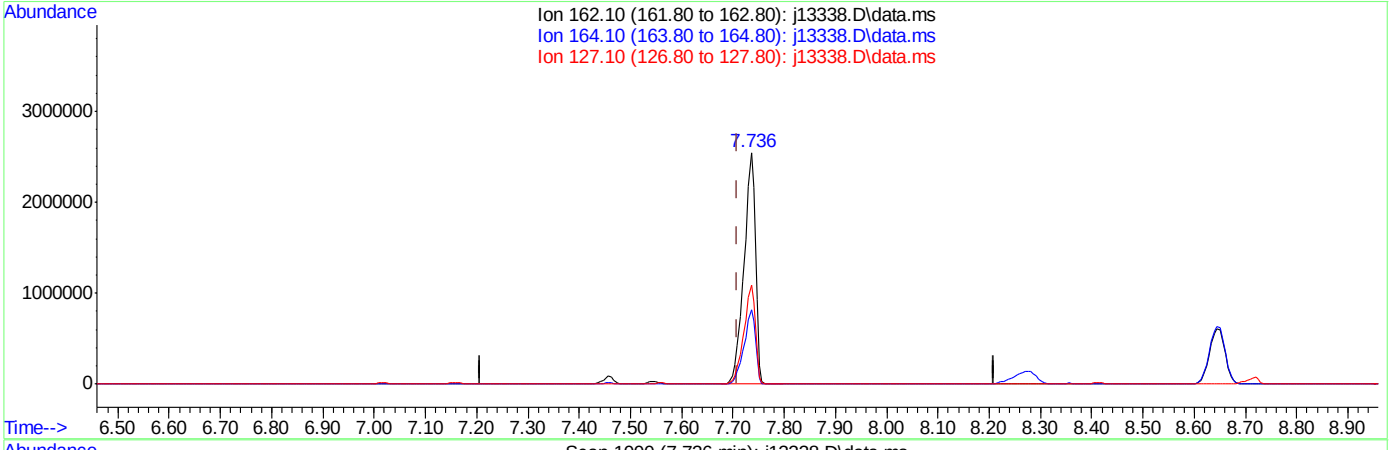

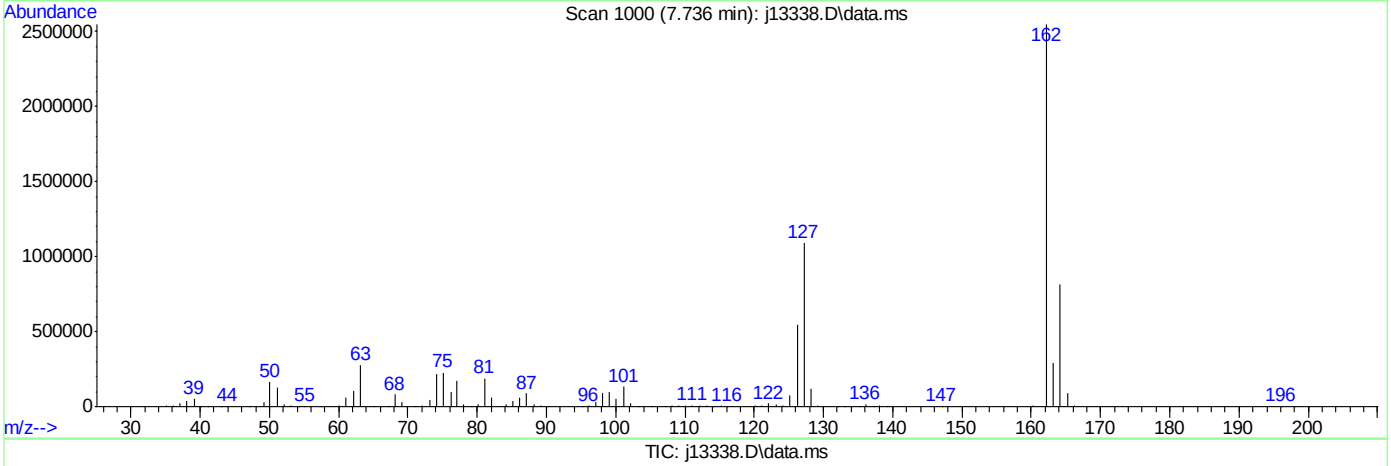

TIC: j13338.D\data.ms

(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
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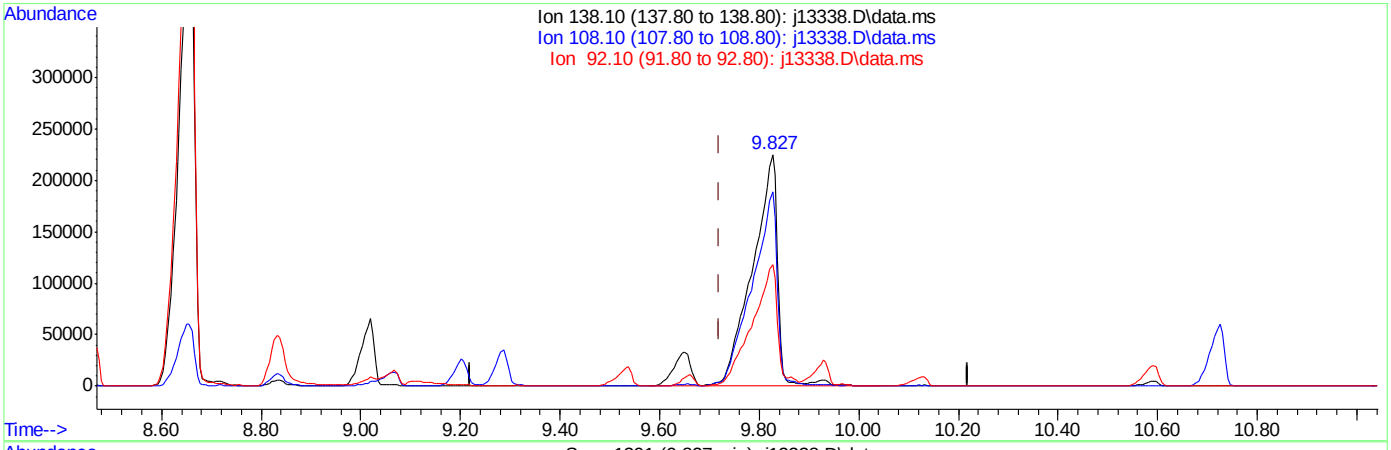

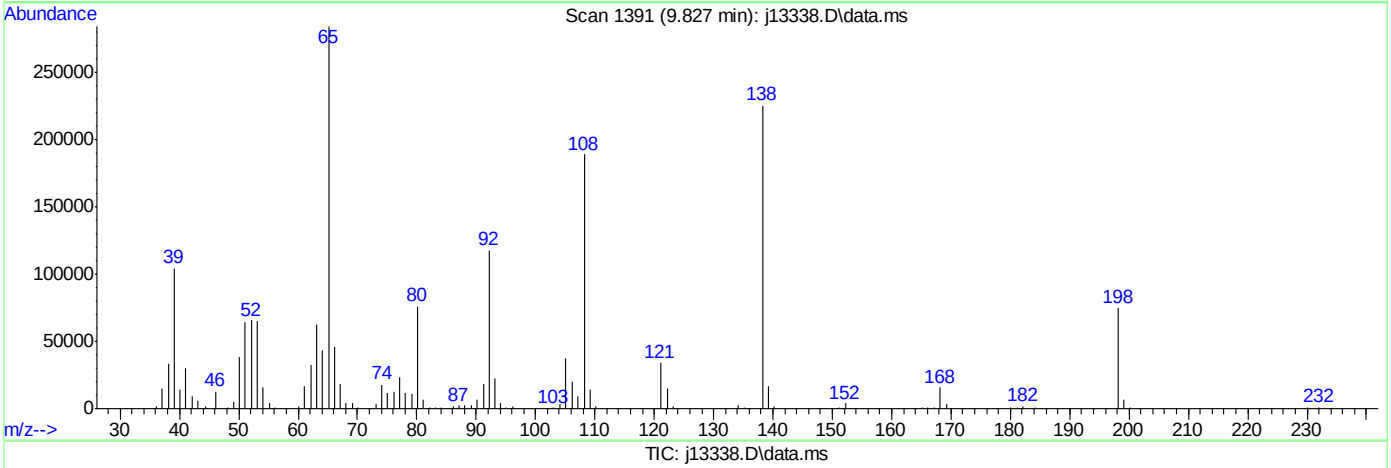

(56) 4-Nitroaniline

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)

```
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Data File : j13338.D
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Operator  : sheilac
Sample    : ic615-100
Misc      : op12949,Ej615,1000,,,1,1,water
ALS Vial  : 7   Sample Multiplier: 1

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Quant Title  :
QLast Update : Wed Sep 23 13:16:53 2009
Response via : Initial Calibration
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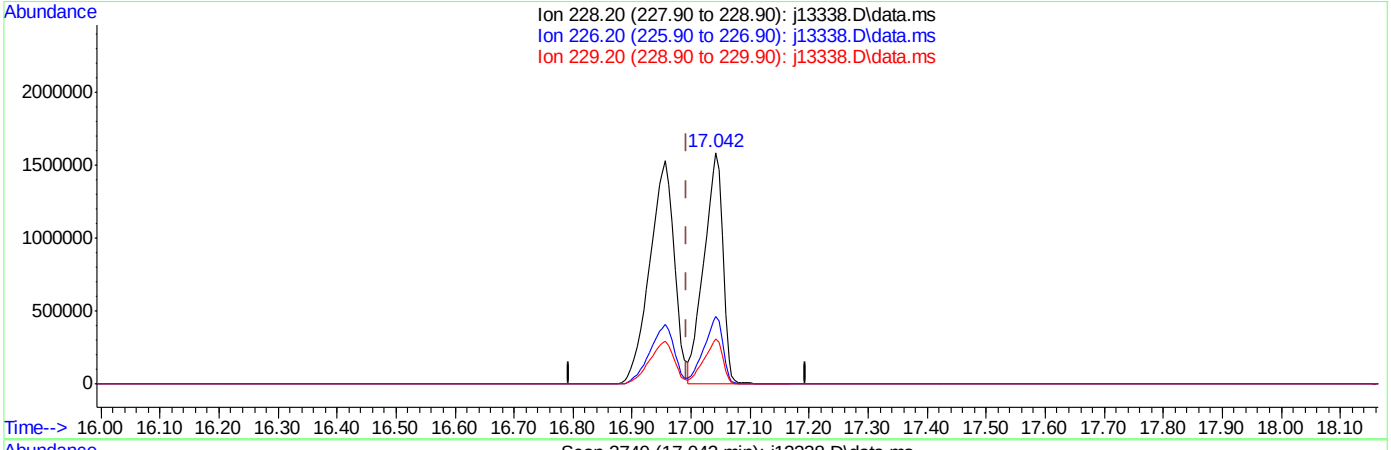

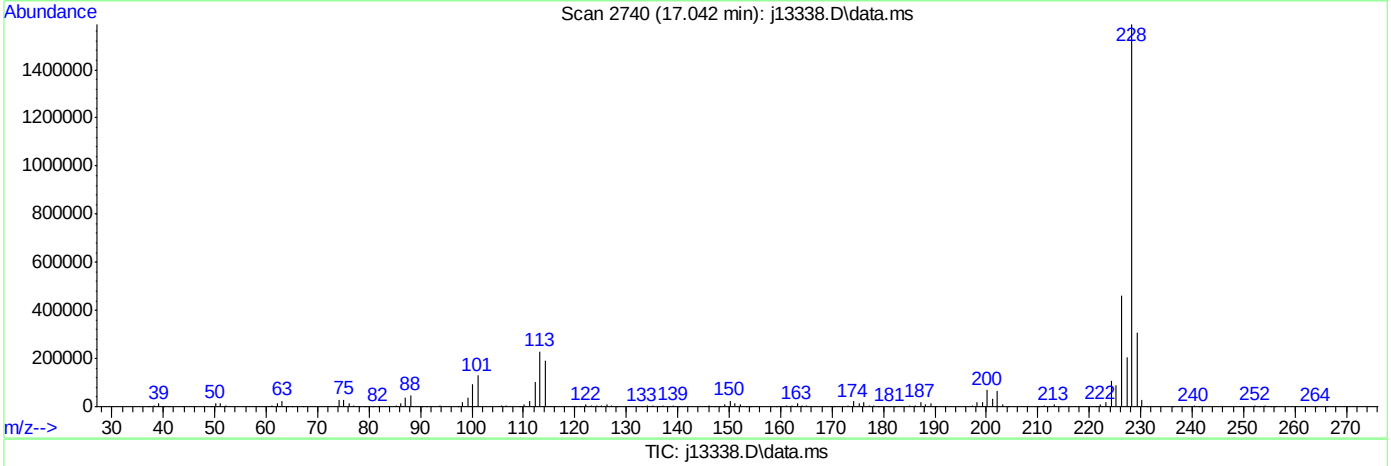

TIC: j13338.D\data.ms

(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

Quantitation Report (Qedit)

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Quant Title :
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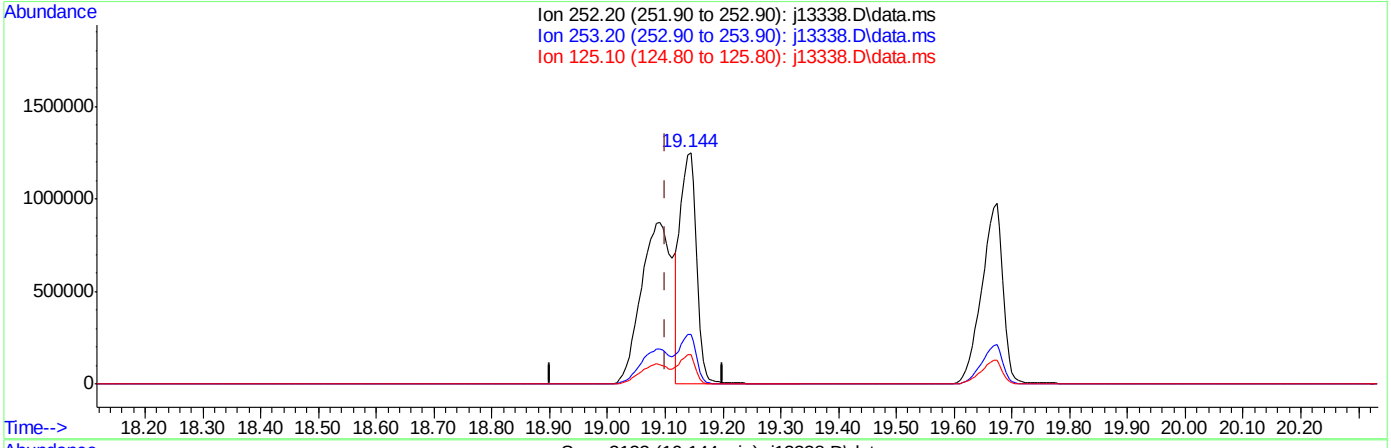
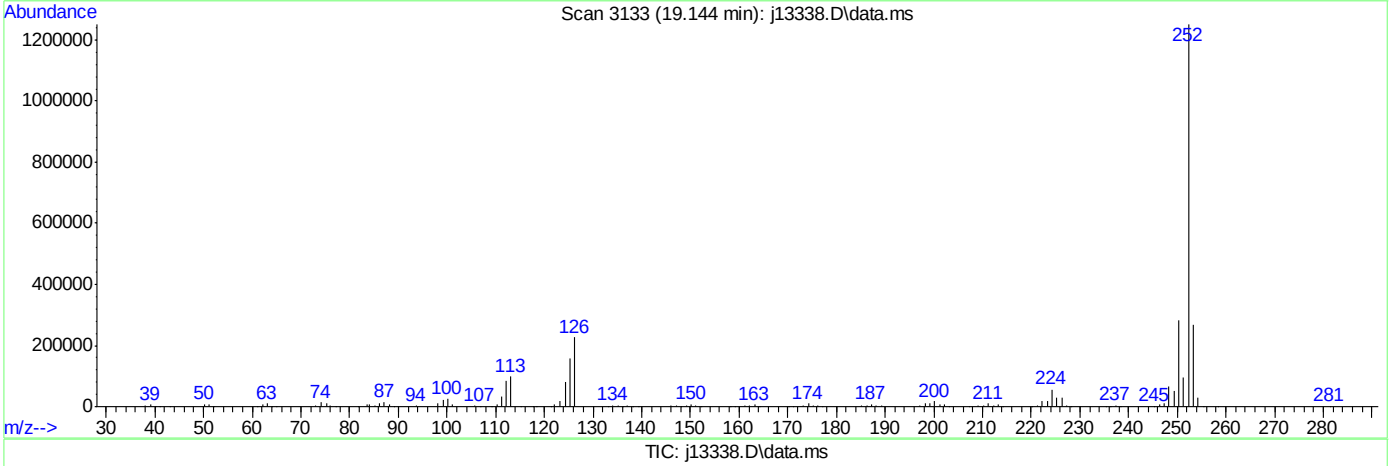




TIC: j13338.D\data.ms

(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

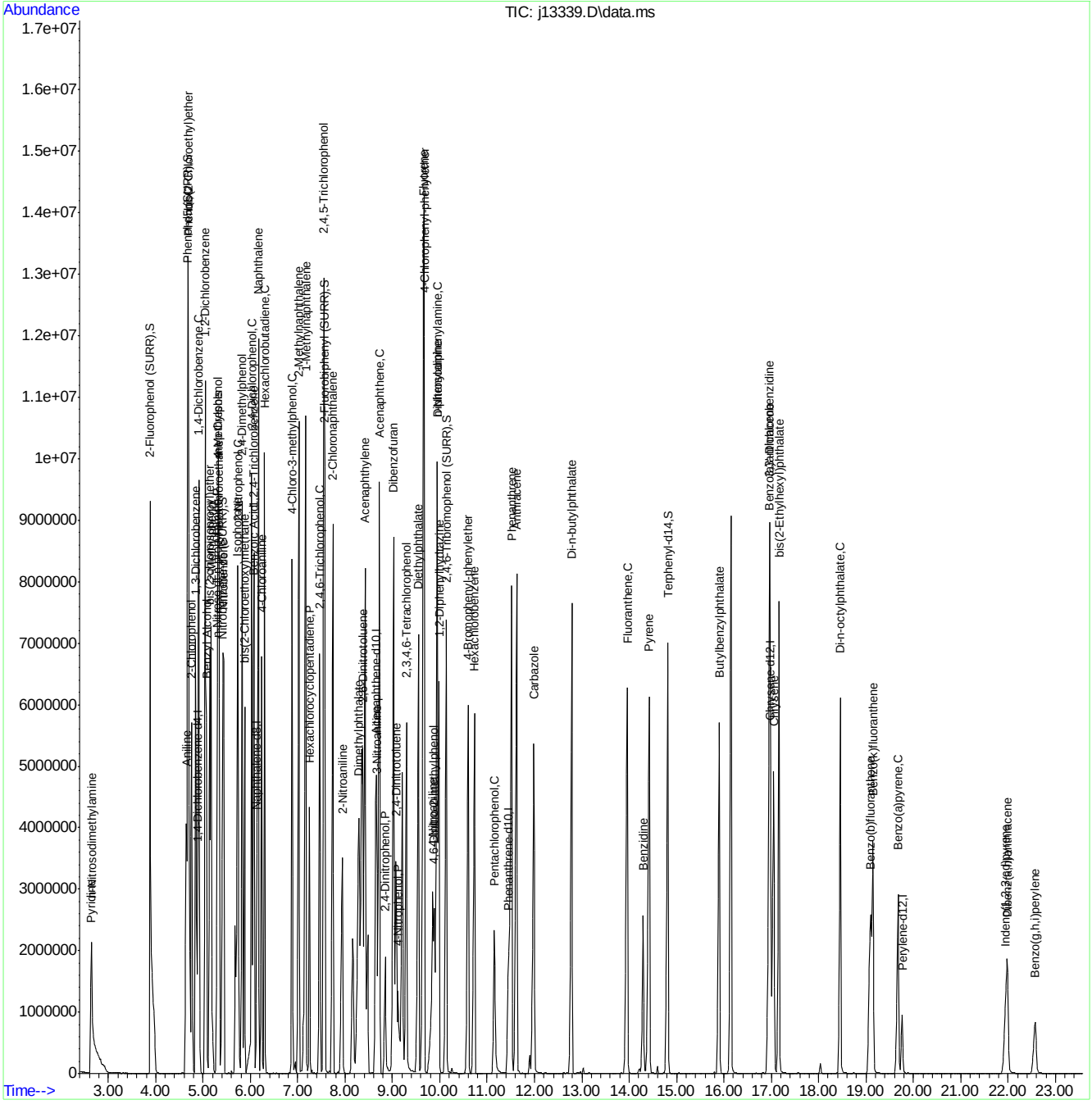
8.6.12

8

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 T39169

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
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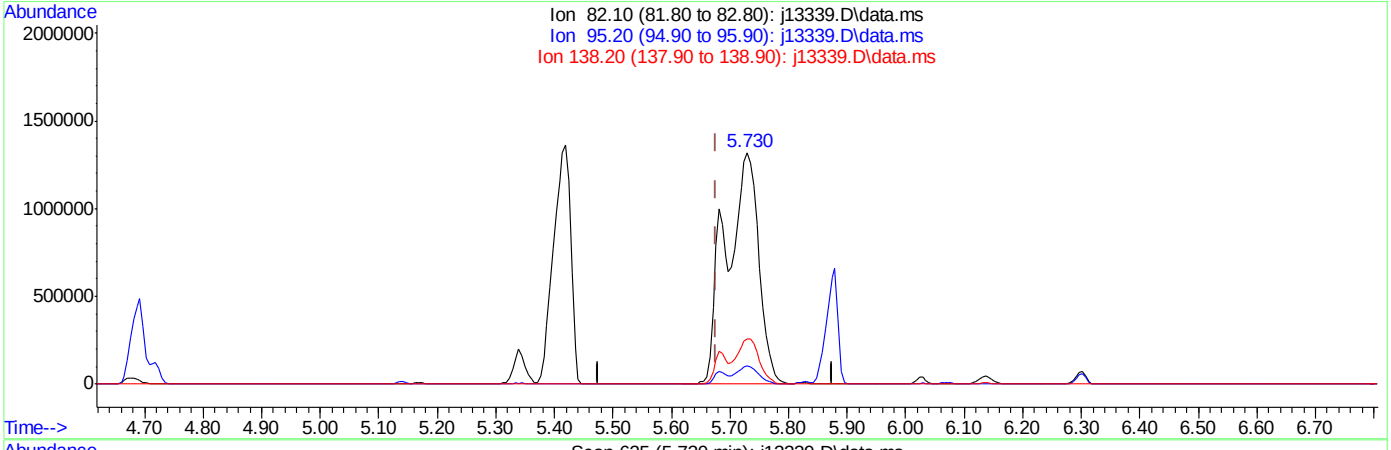
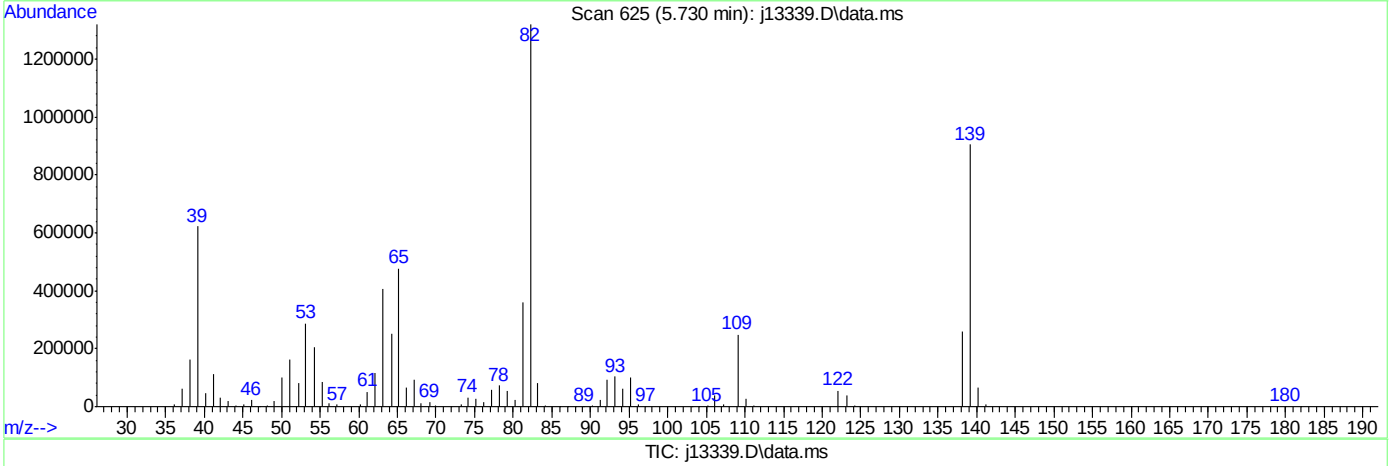




(23) Isophorone

5.730min (+0.054) 115.88ug/ml m

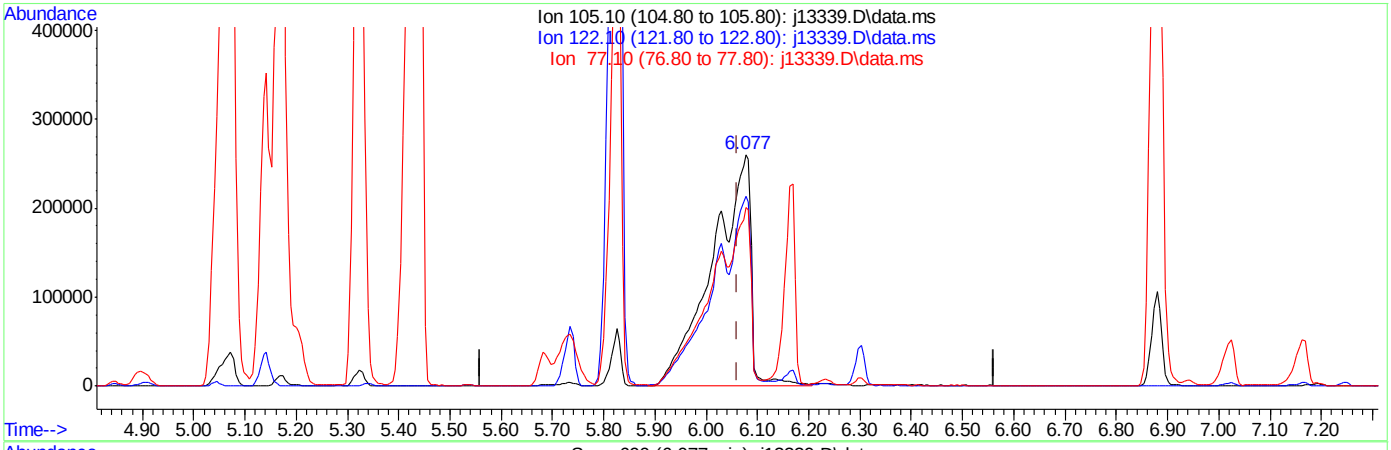
response 5091953

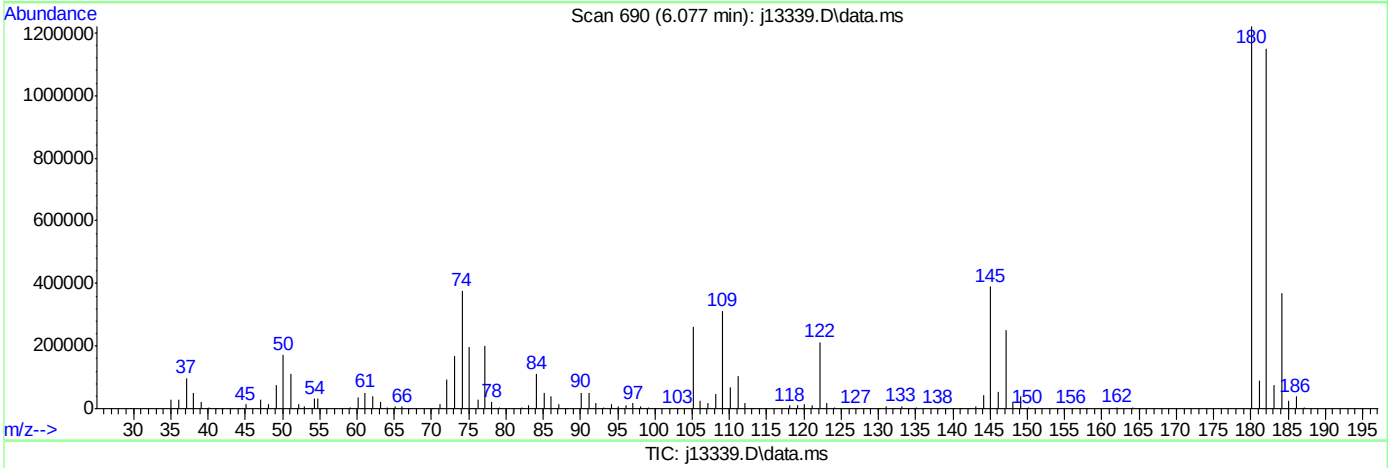
Ion	Exp%	Act%
82.10	100	100
95.20	7.30	2.51
138.20	18.50	5.46
0.00	0.00	0.00

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

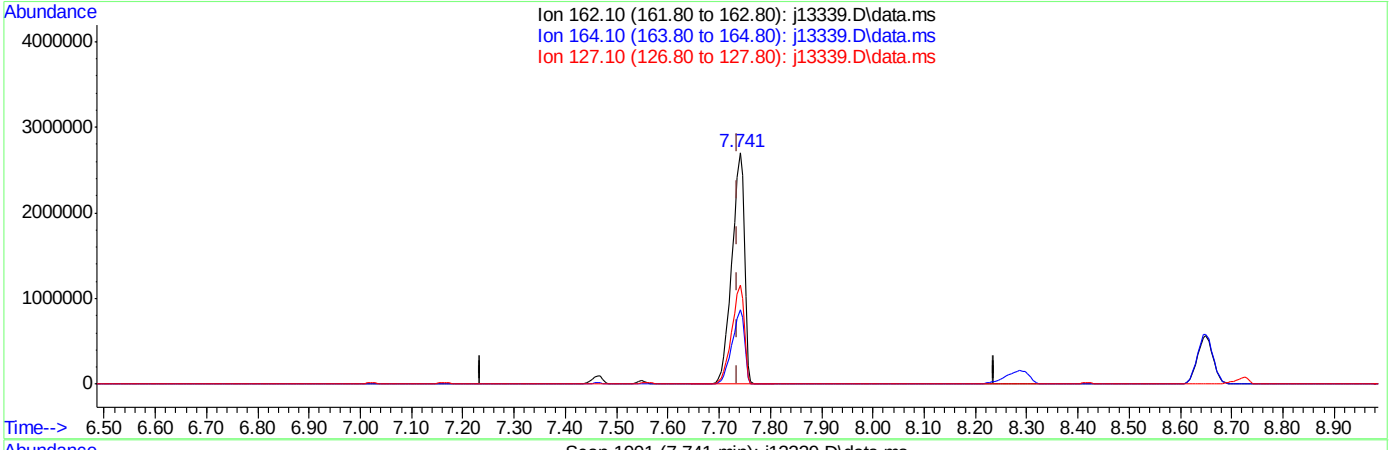
response 1368372

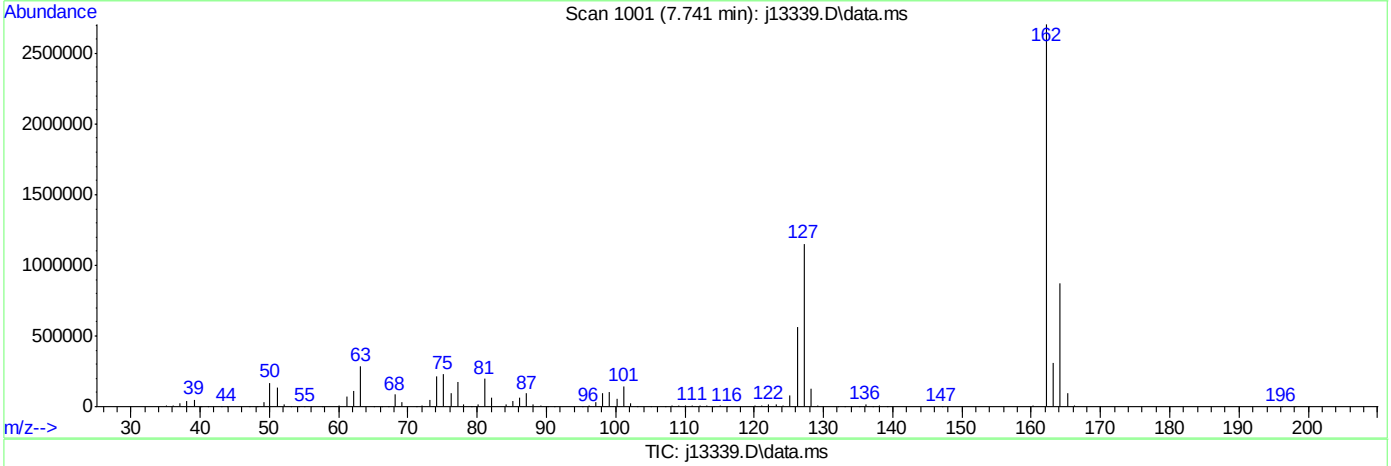
Ion	Exp%	Act%
105.10	100	100
122.10	75.20	34.58#
77.10	81.90	29.28#
0.00	0.00	0.00

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

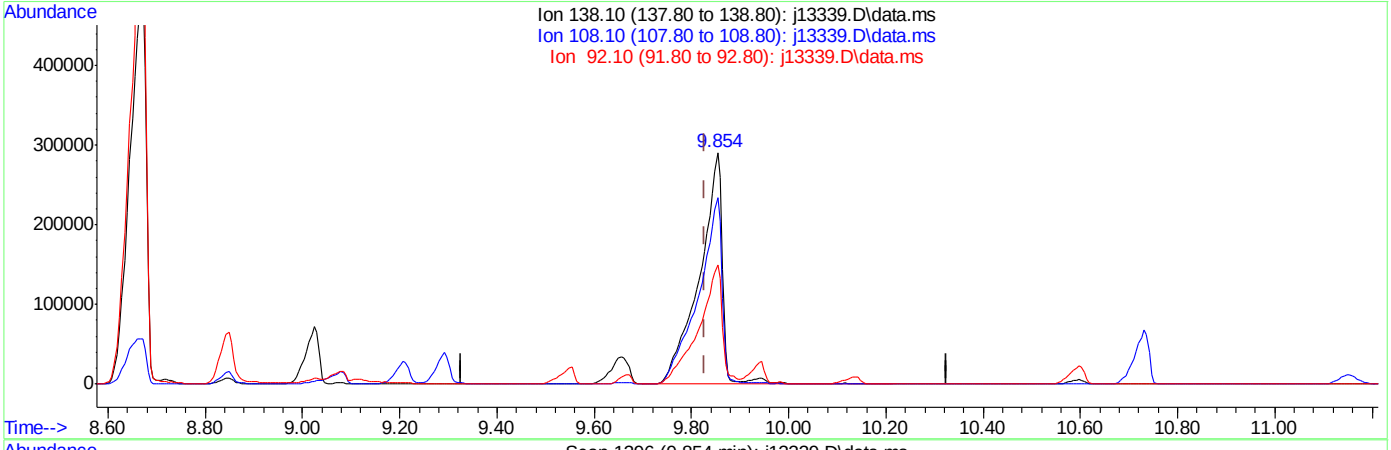
response 4554027

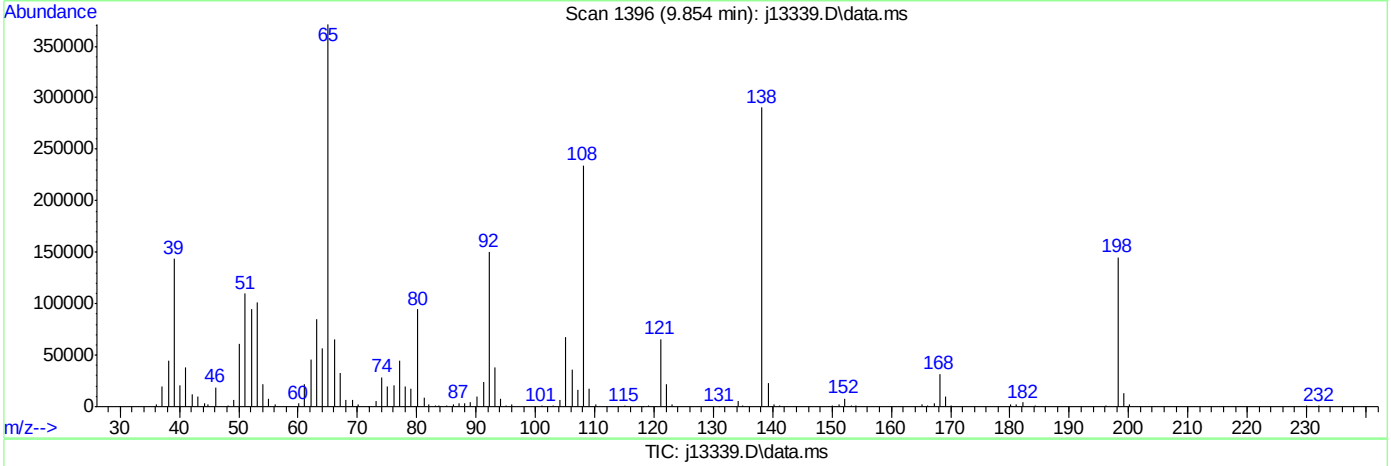
Ion	Exp%	Act%
162.10	100	100
164.10	32.20	32.17
127.10	42.60	42.70
0.00	0.00	0.00

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

8.6.12.4

8

ACCUTEST Laboratories T39169

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

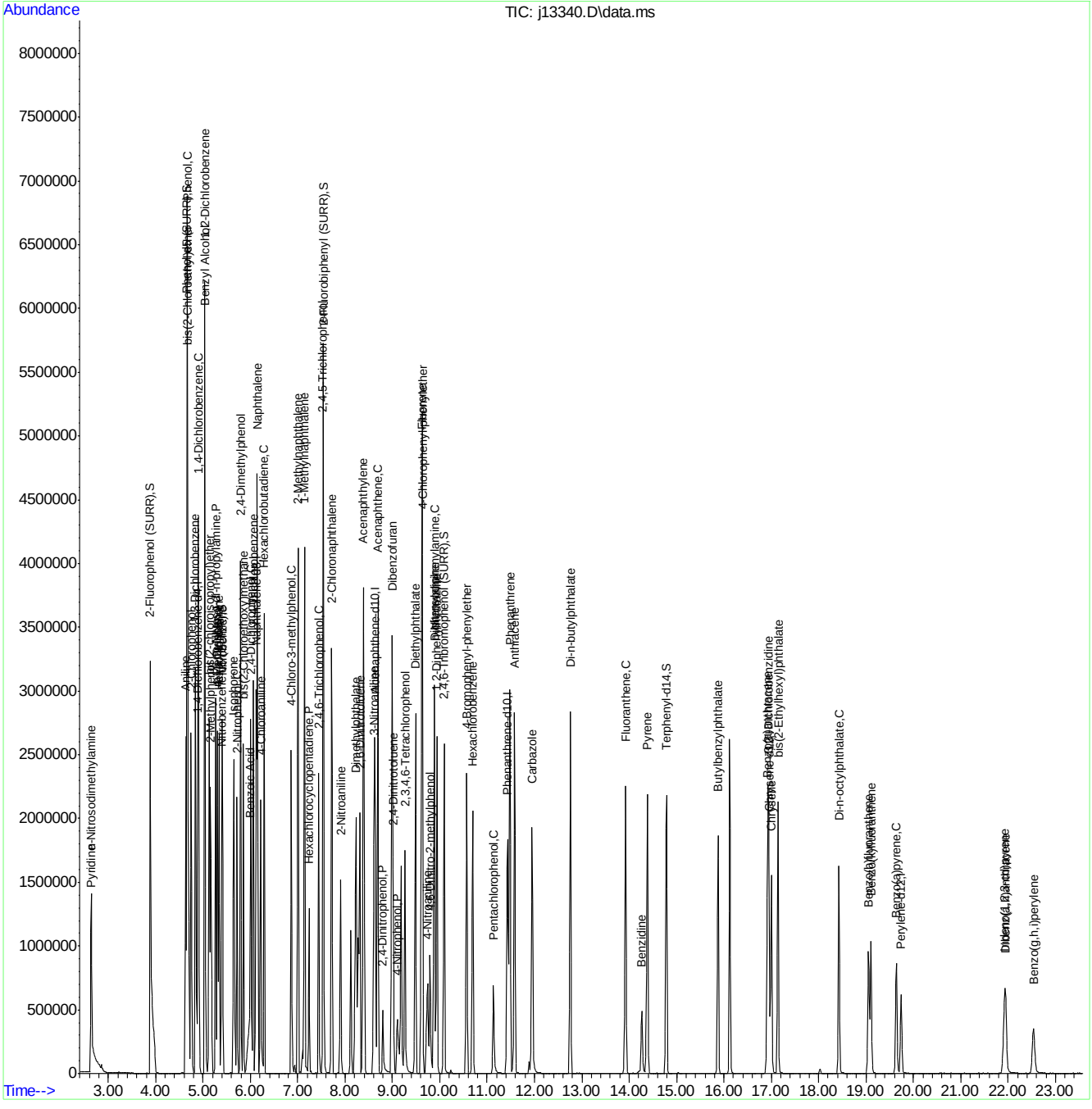
8.6.13

8

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

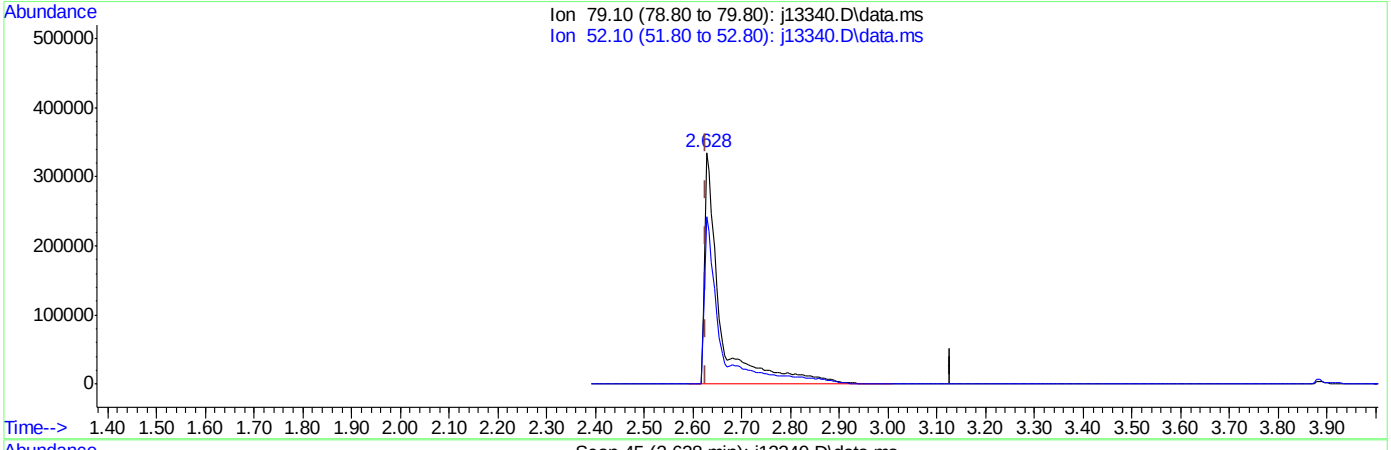
Quant Time: Sep 23 14:43:49 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Wed Sep 23 14:43:40 2009
Response via : Initial Calibration

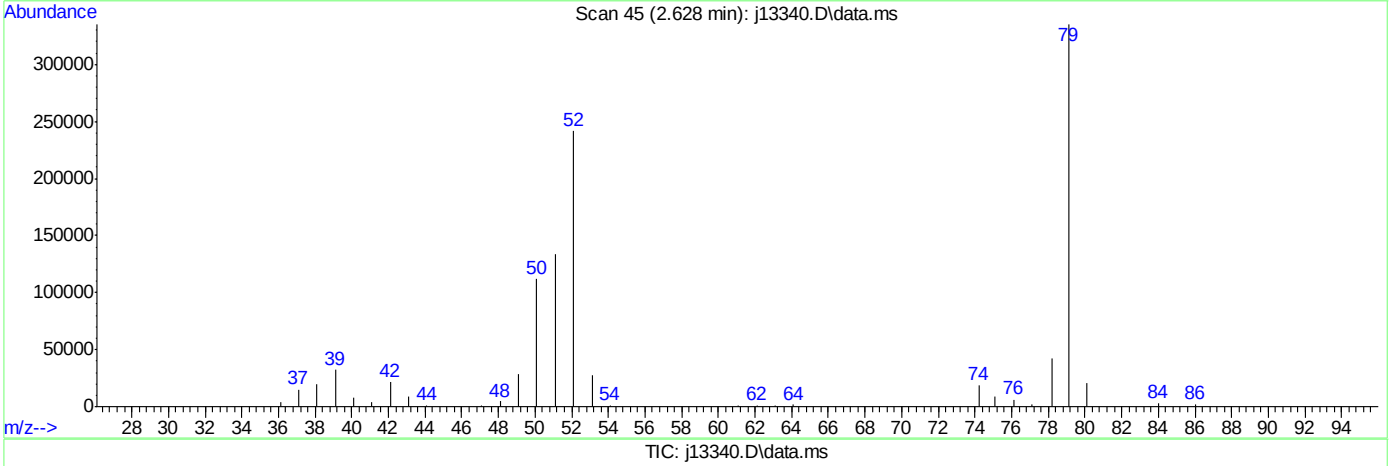


Quantitation Report (Qedit)

```
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
```





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

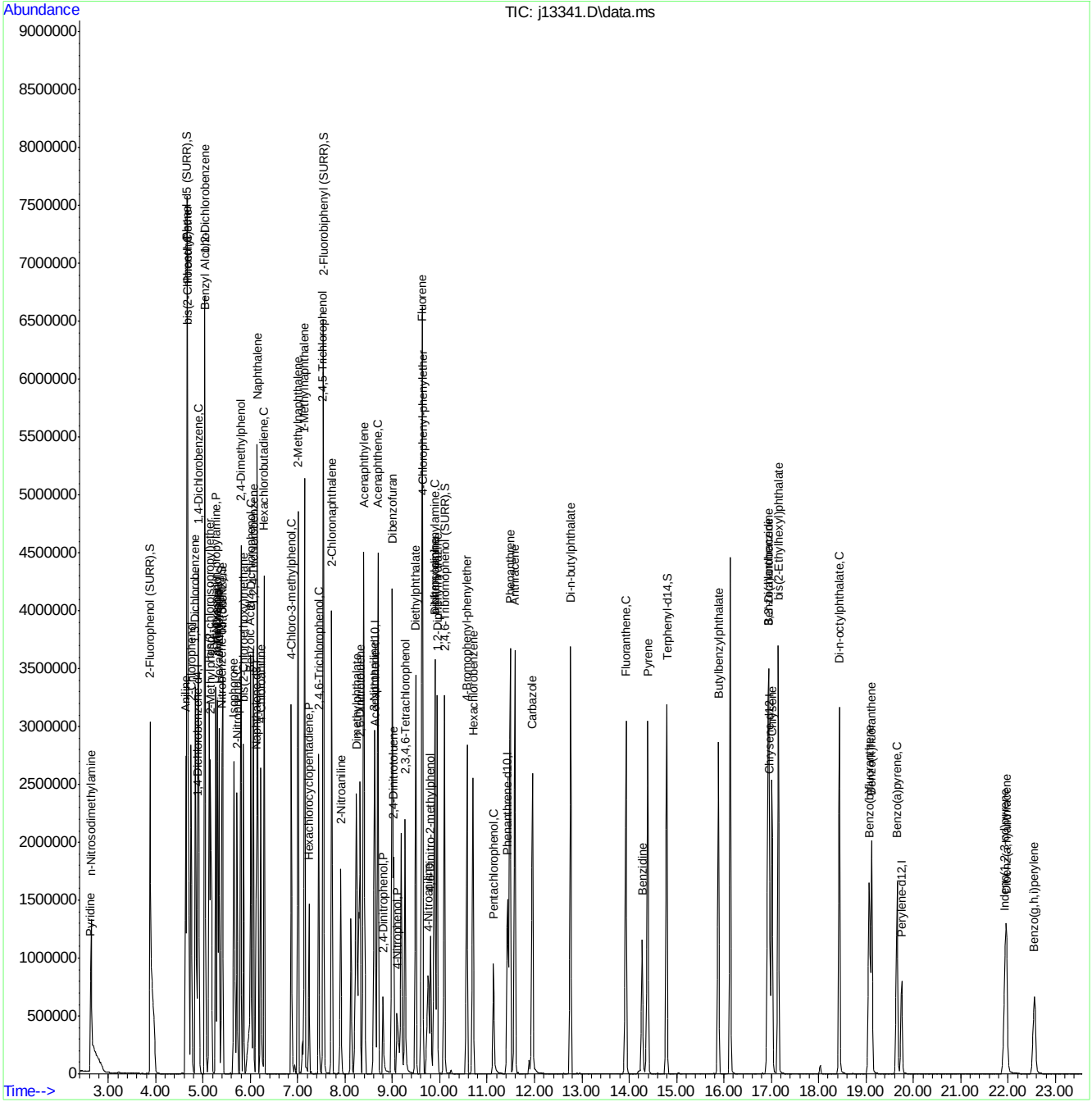
8.6.14

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

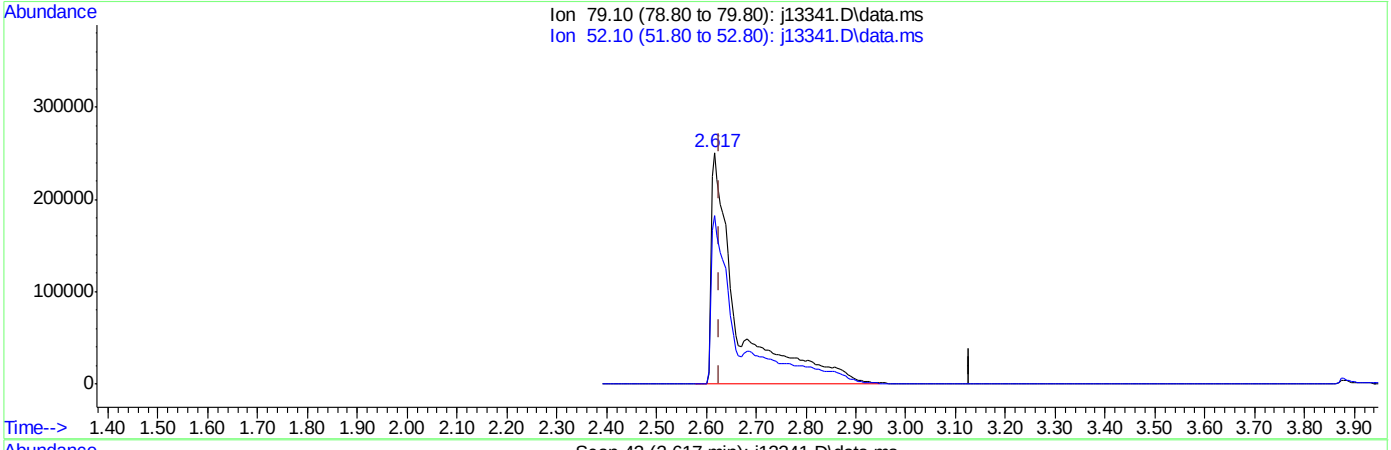


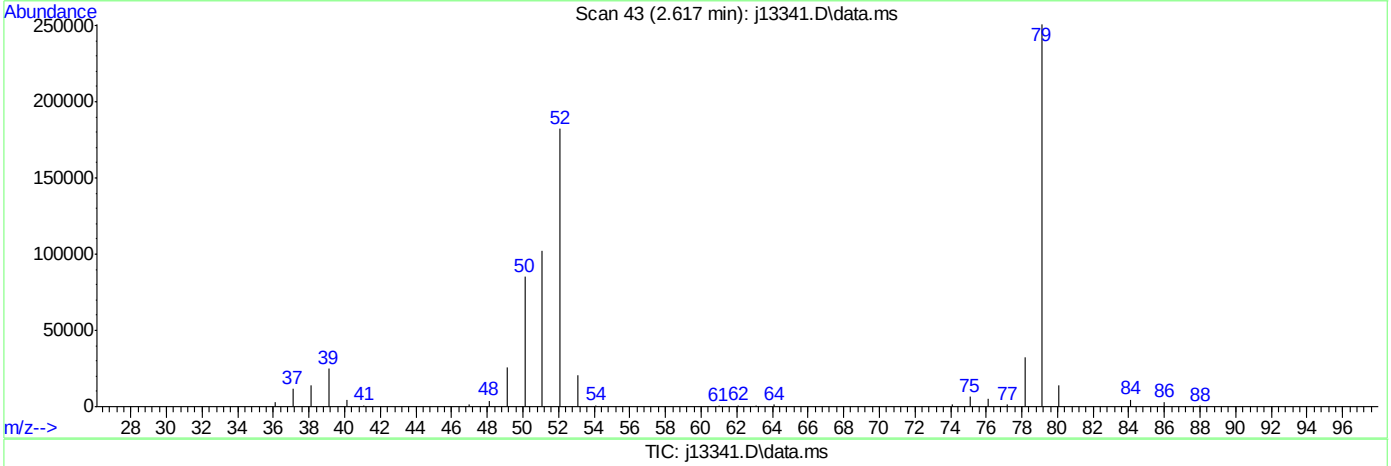
ACCUTEST Laboratories T39169

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





(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

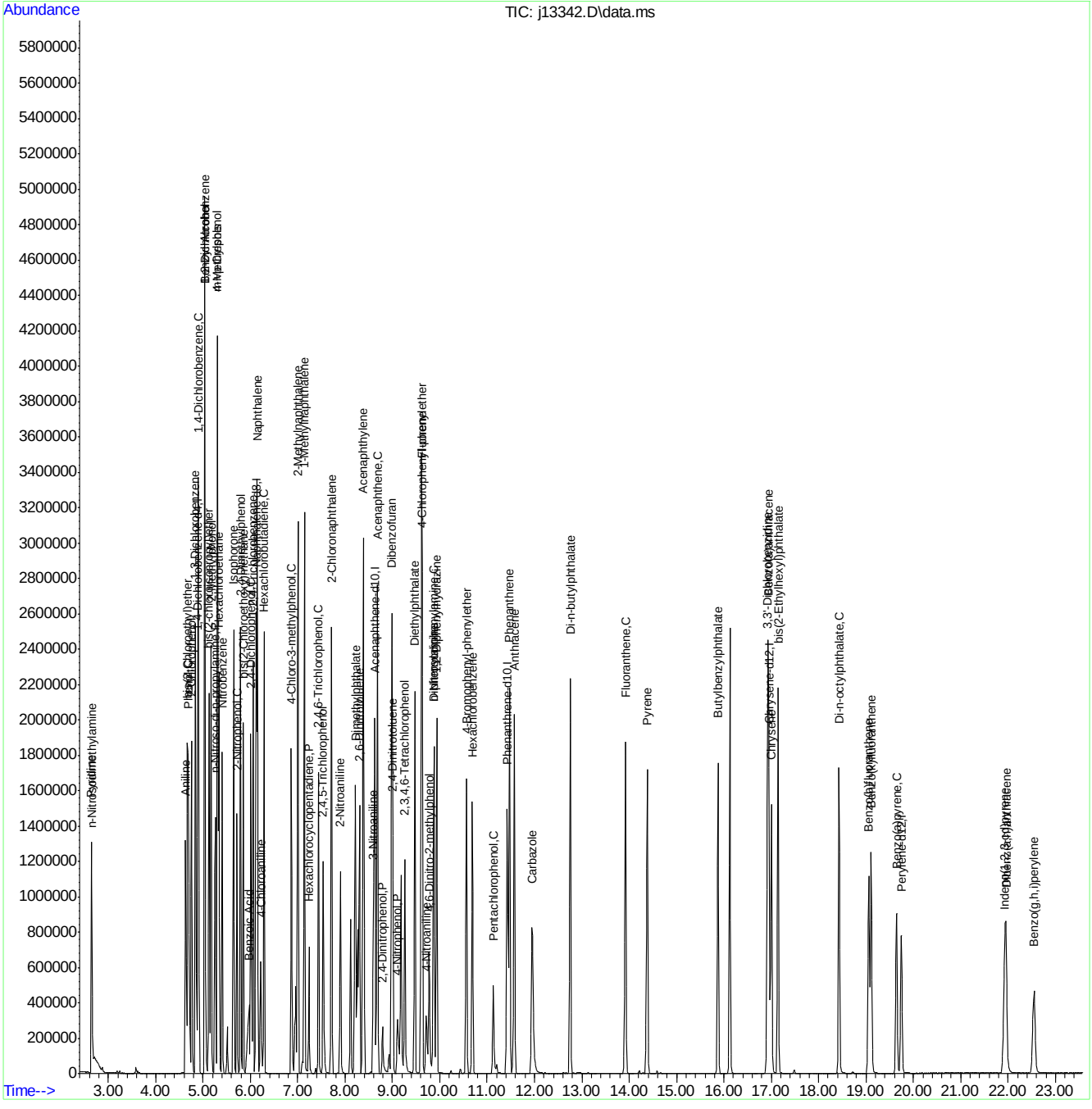
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33)	4-Chloro-3-methylphenol	6.864	107	512044	47.34	ug/ml	100
34)	2-Methylnaphthalene	7.003	142	1151343	49.77	ug/ml	100
35)	1-Methylnaphthalene	7.142	142	1123966	46.39	ug/ml	100
37)	Hexachlorocyclopentadiene	7.238	237	137587	43.14	ug/ml	99
38)	2,4,6-Trichlorophenol	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 T39169

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
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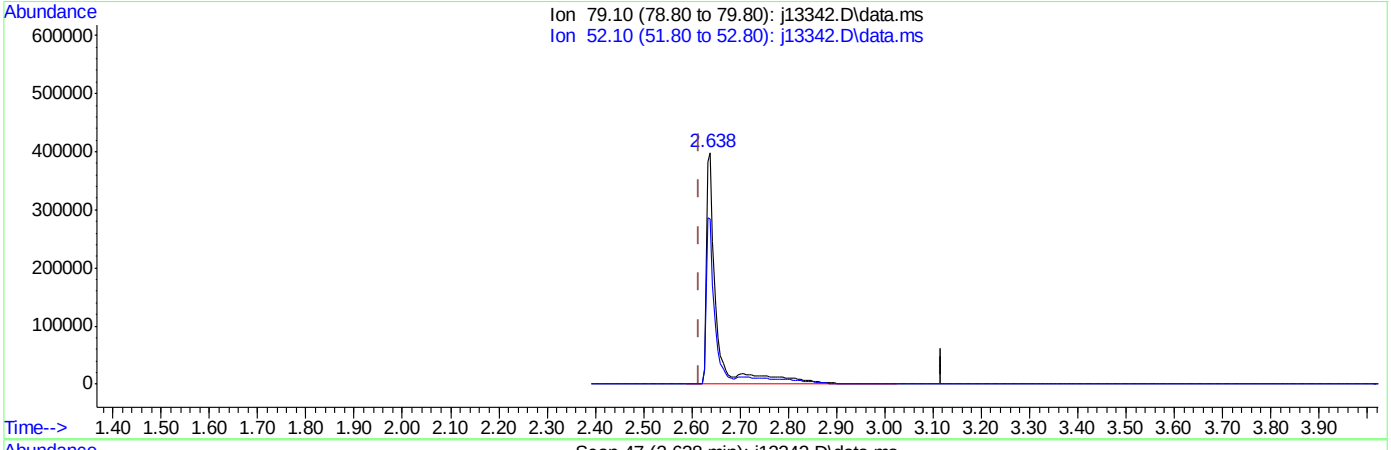
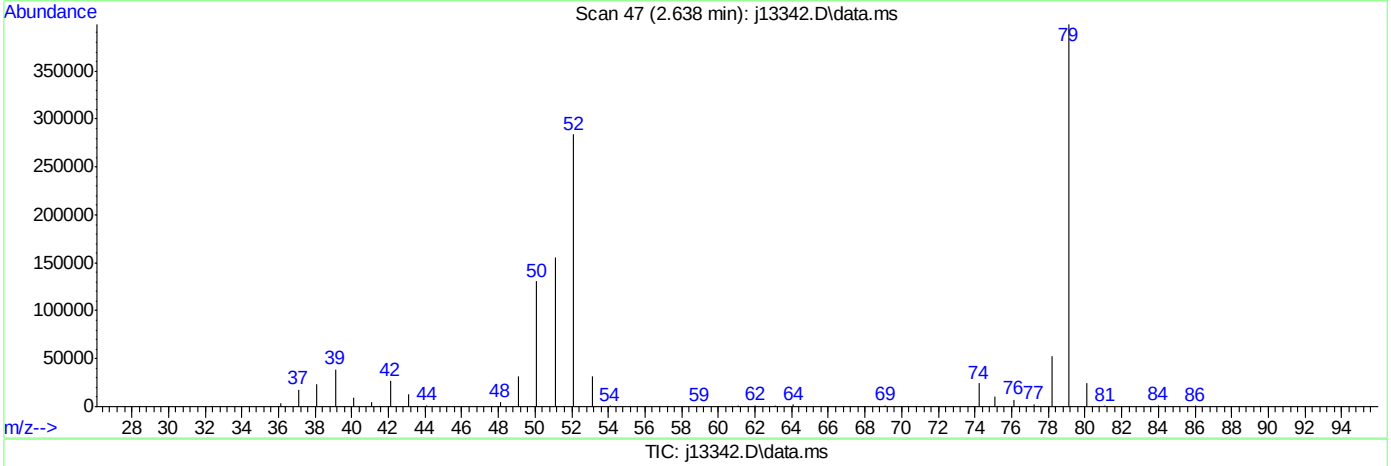




(3) Pyridine

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

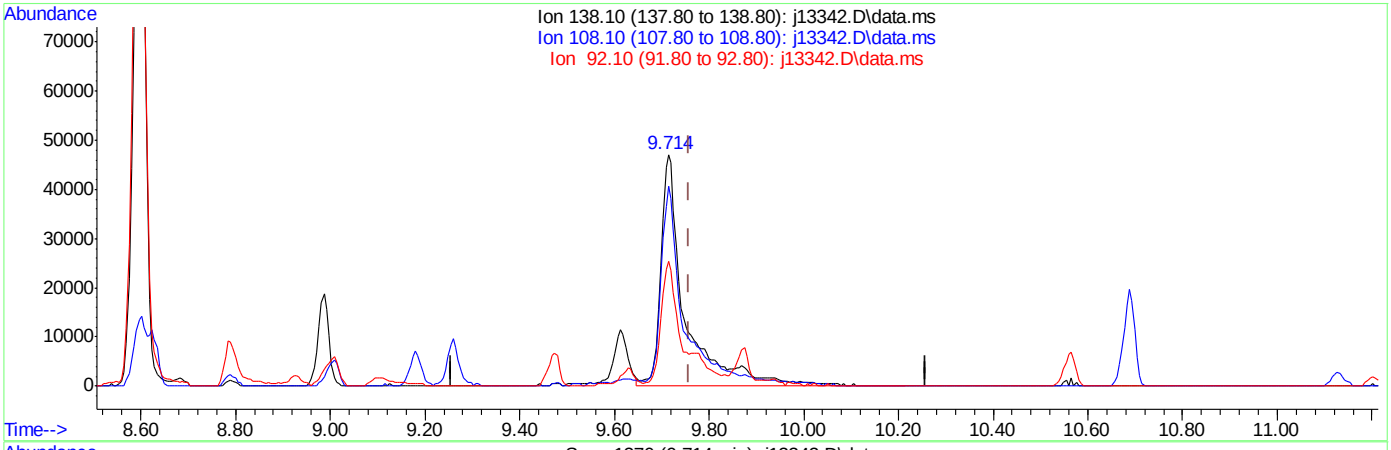
8.6.15.1 8

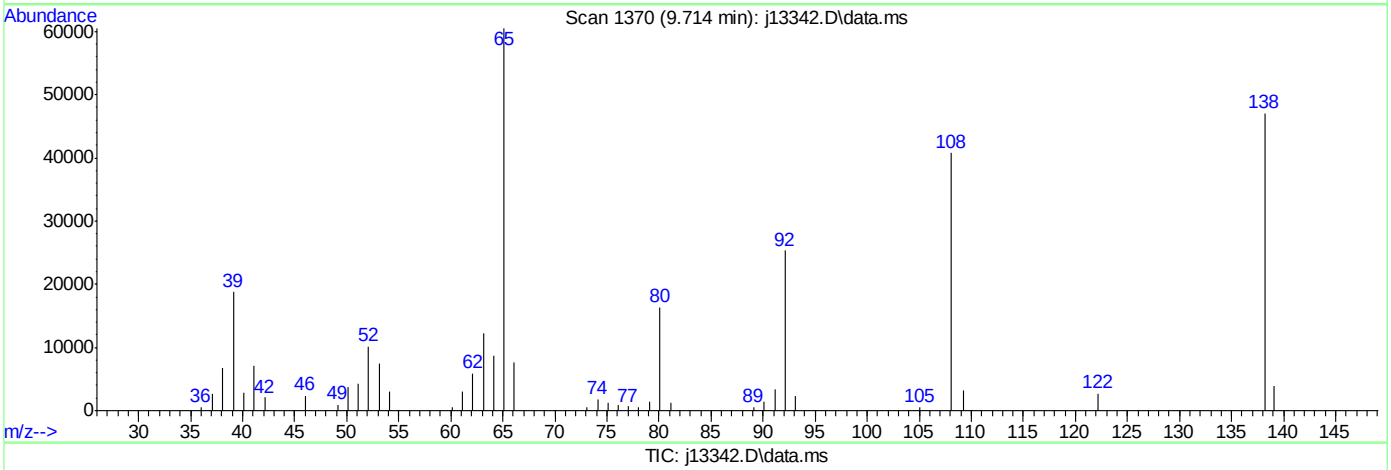
ACCUTEST Laboratories T39169

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

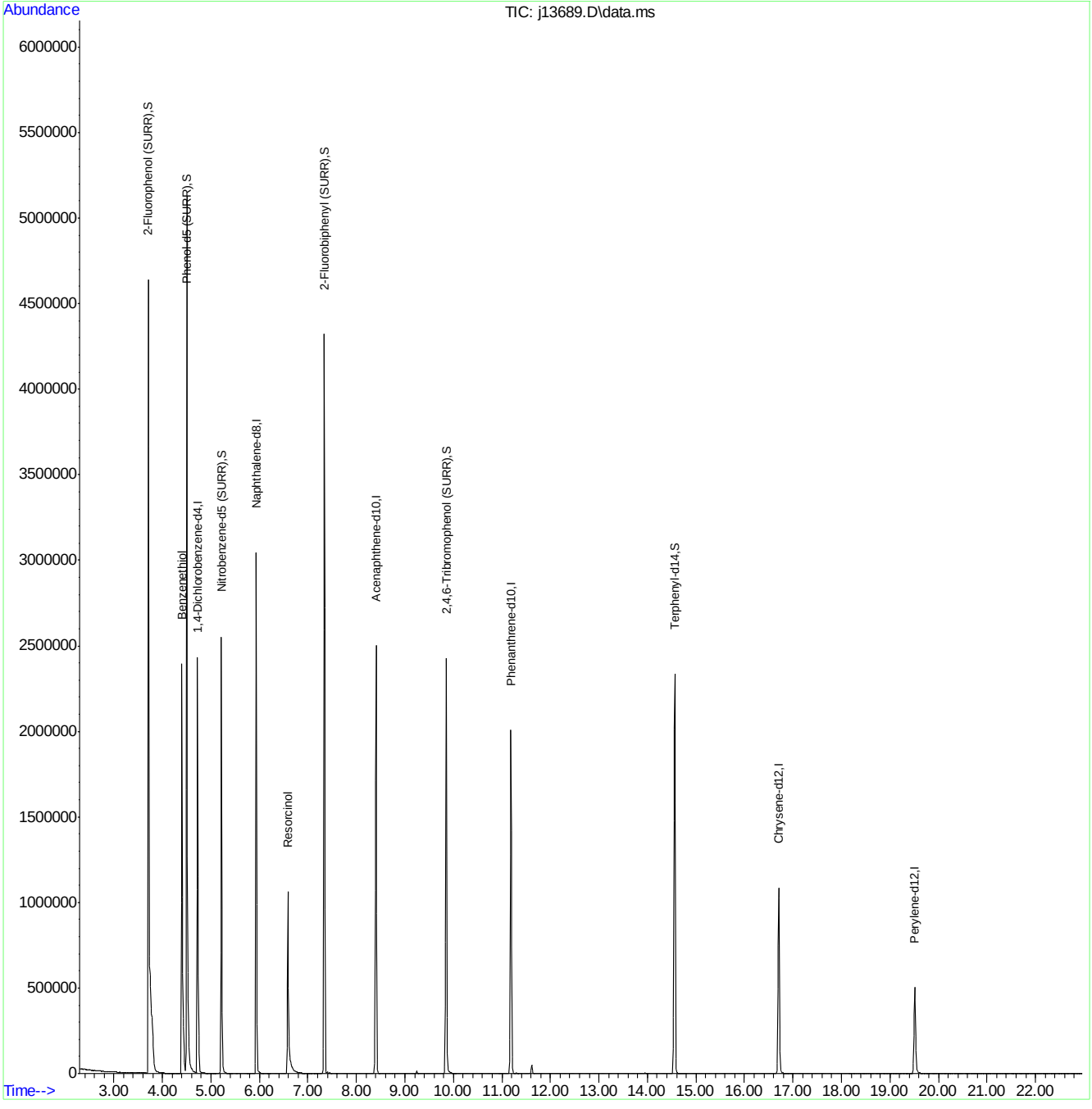
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	425311	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1500474	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	839398	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.187	188	1281434	40.00	ug/ml	0.45
33) 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



ACCUTEST Laboratories T39169

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

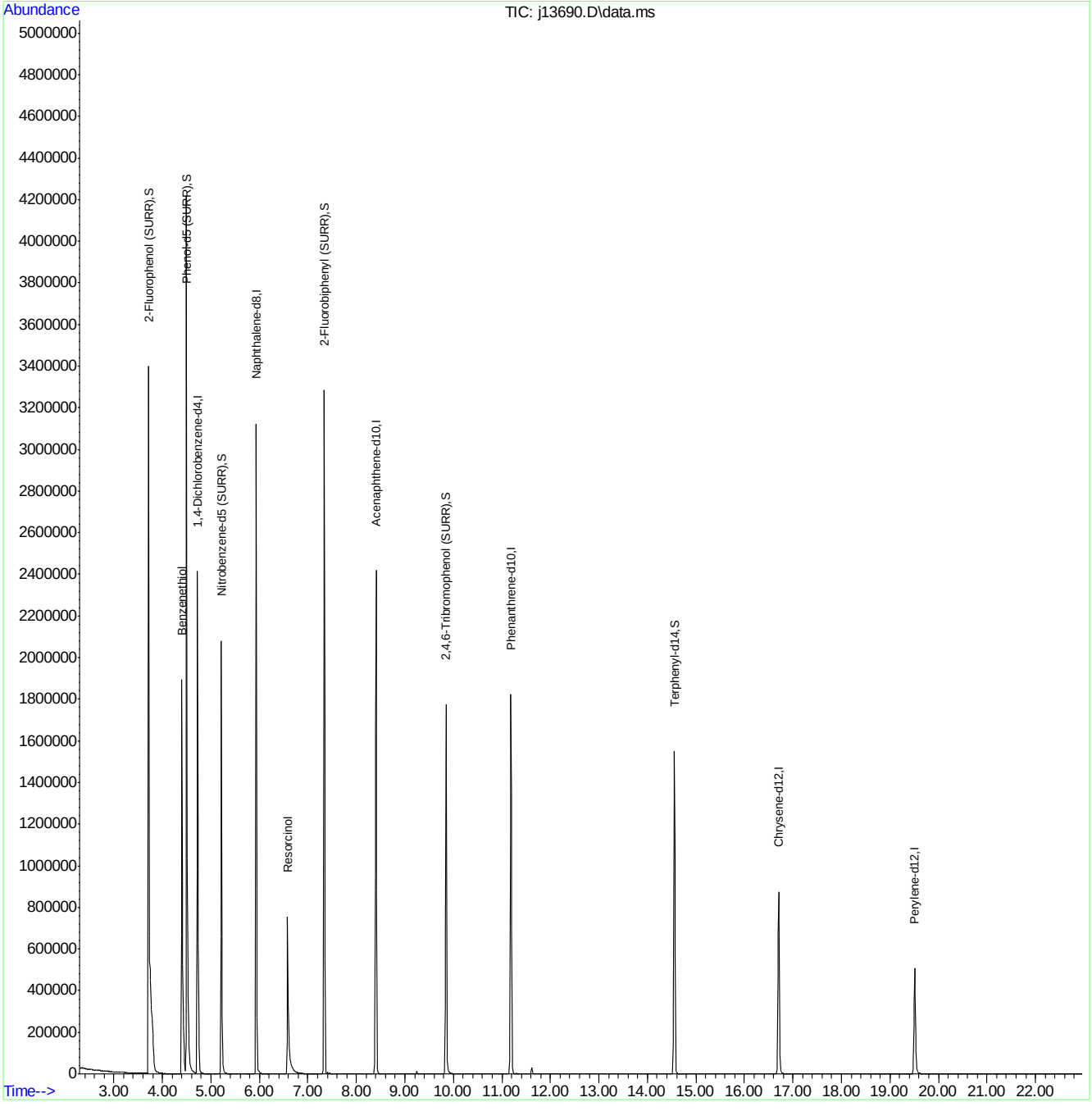
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	432948	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1506151	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	806931	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.187	188	1180761	40.00	ug/ml	0.45
33) 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



ACCUTEST Laboratories T39169

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

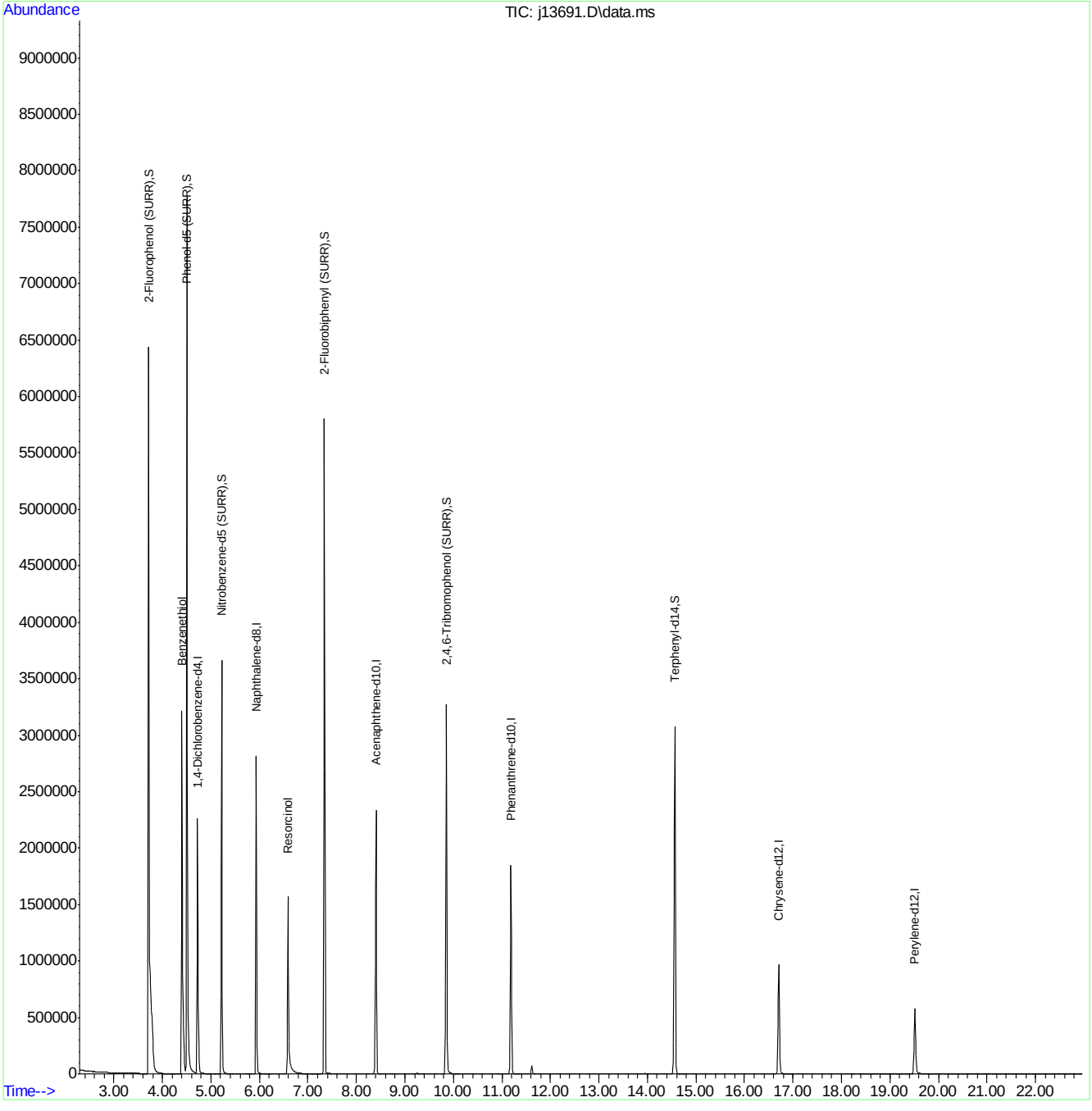
8.6.18

8

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

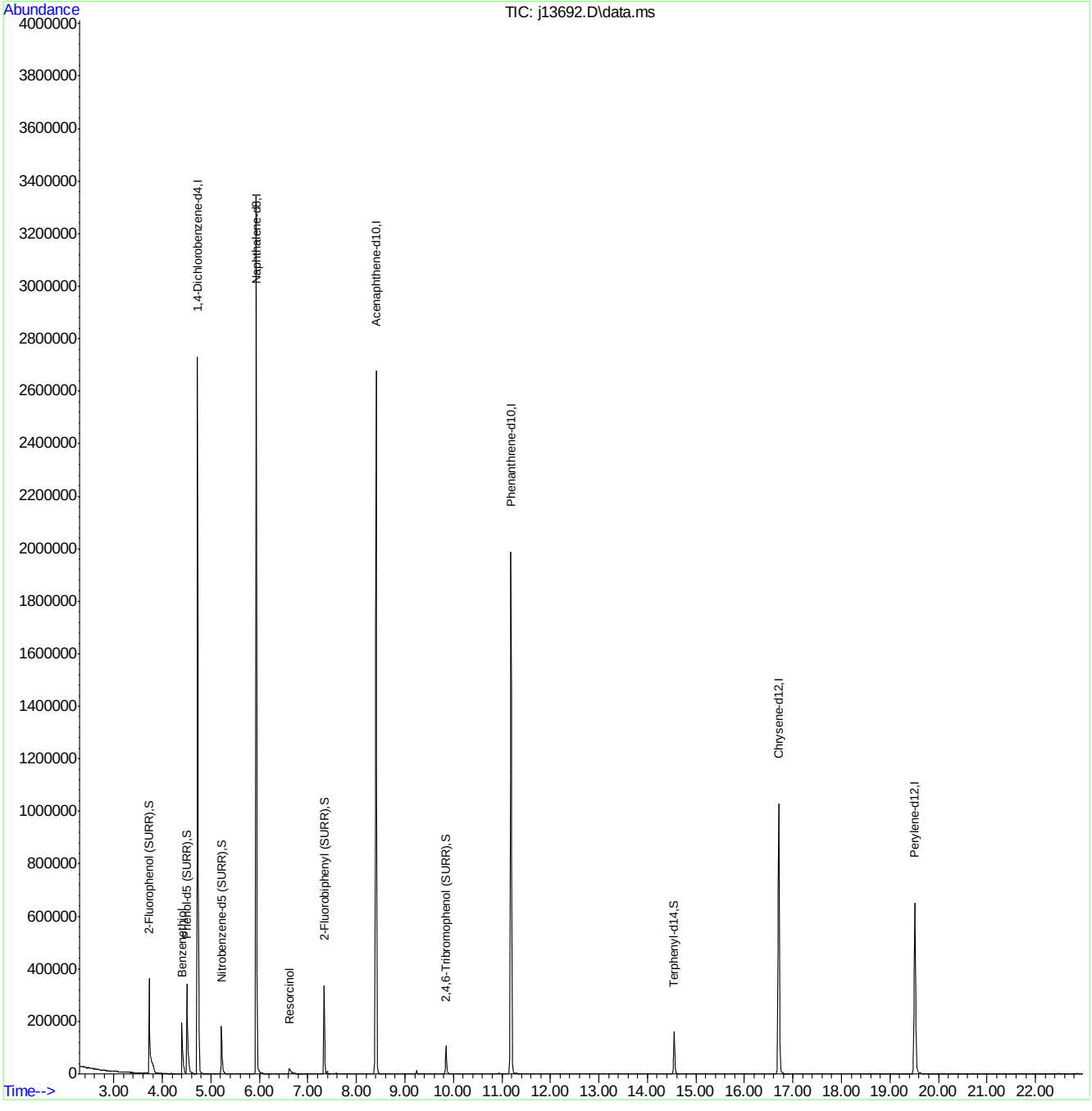
8.6.19

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



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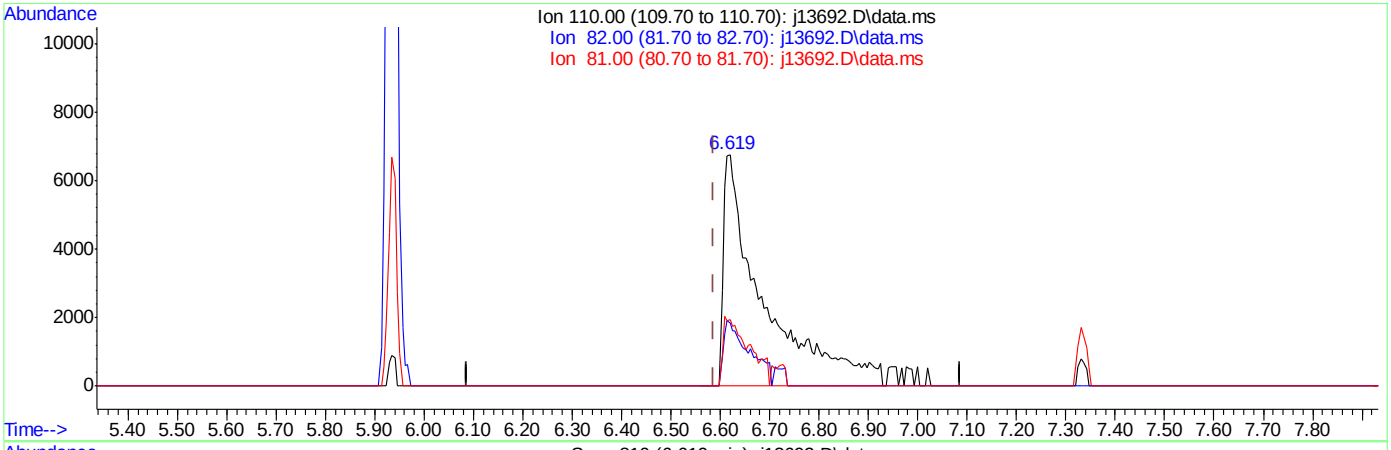
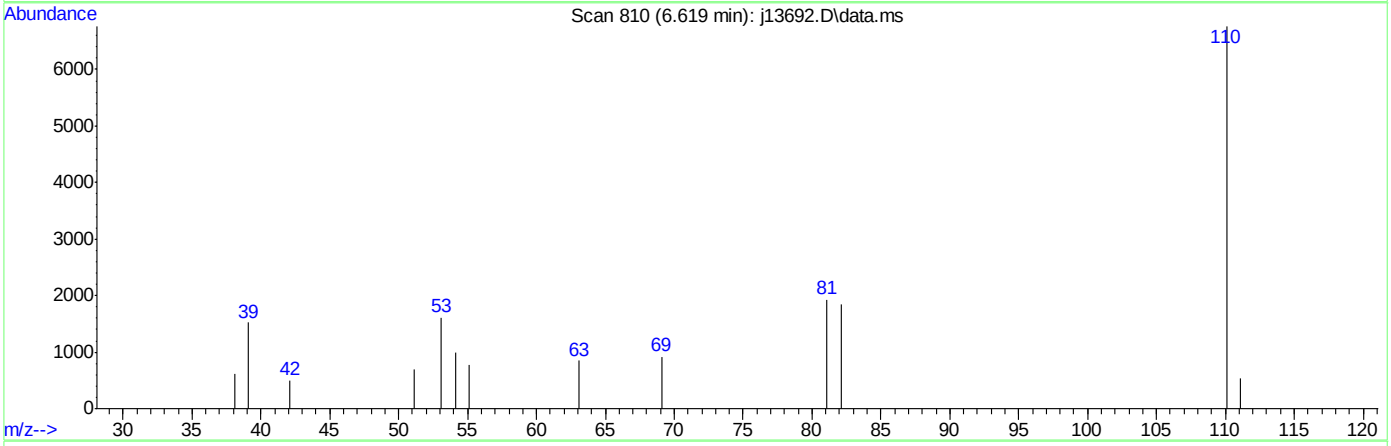
Quantitation Report (Qedit)

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

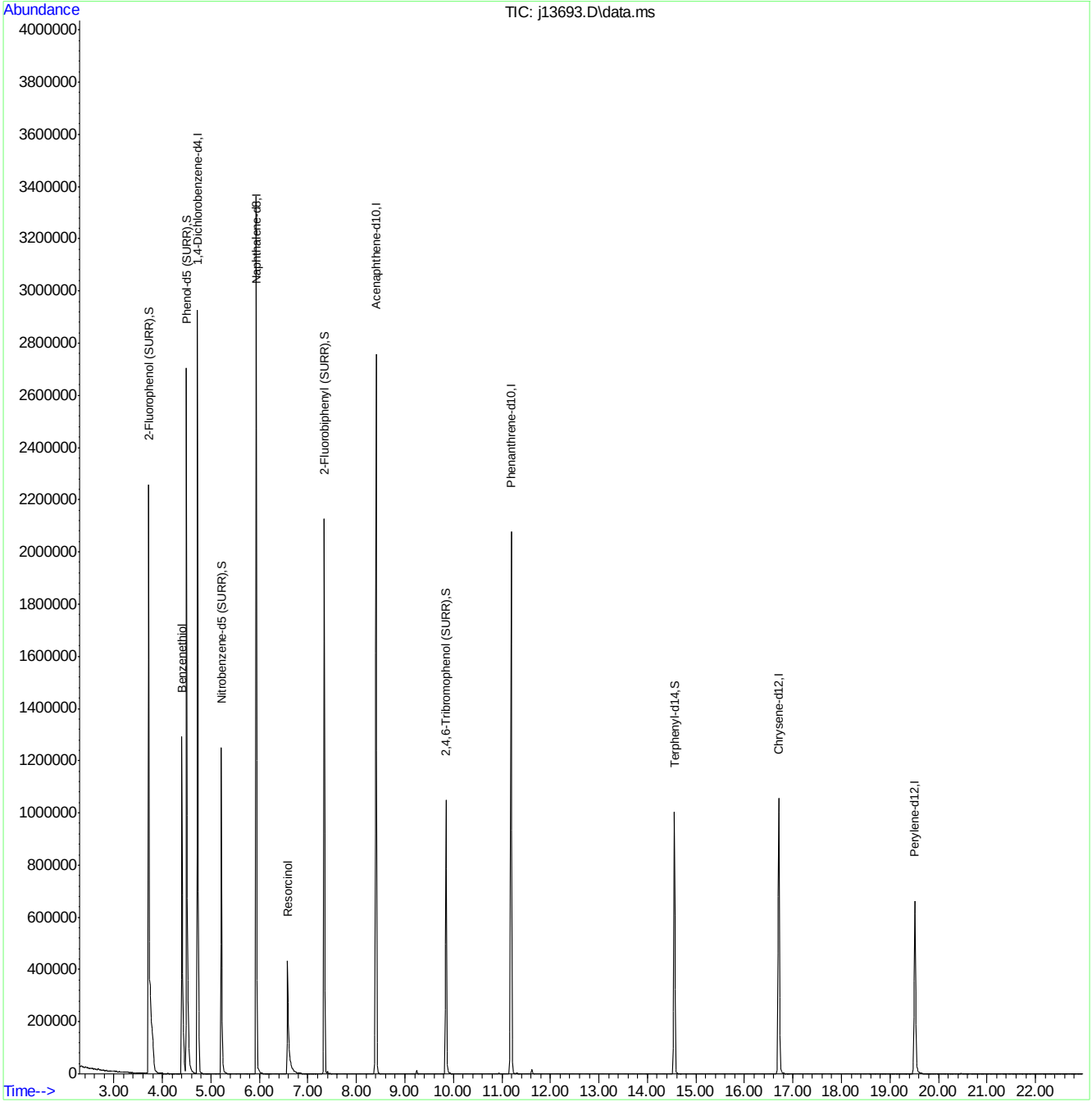
8.6.20

8

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



8.6.20
8
ACCUTEST Laboratories T39169

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

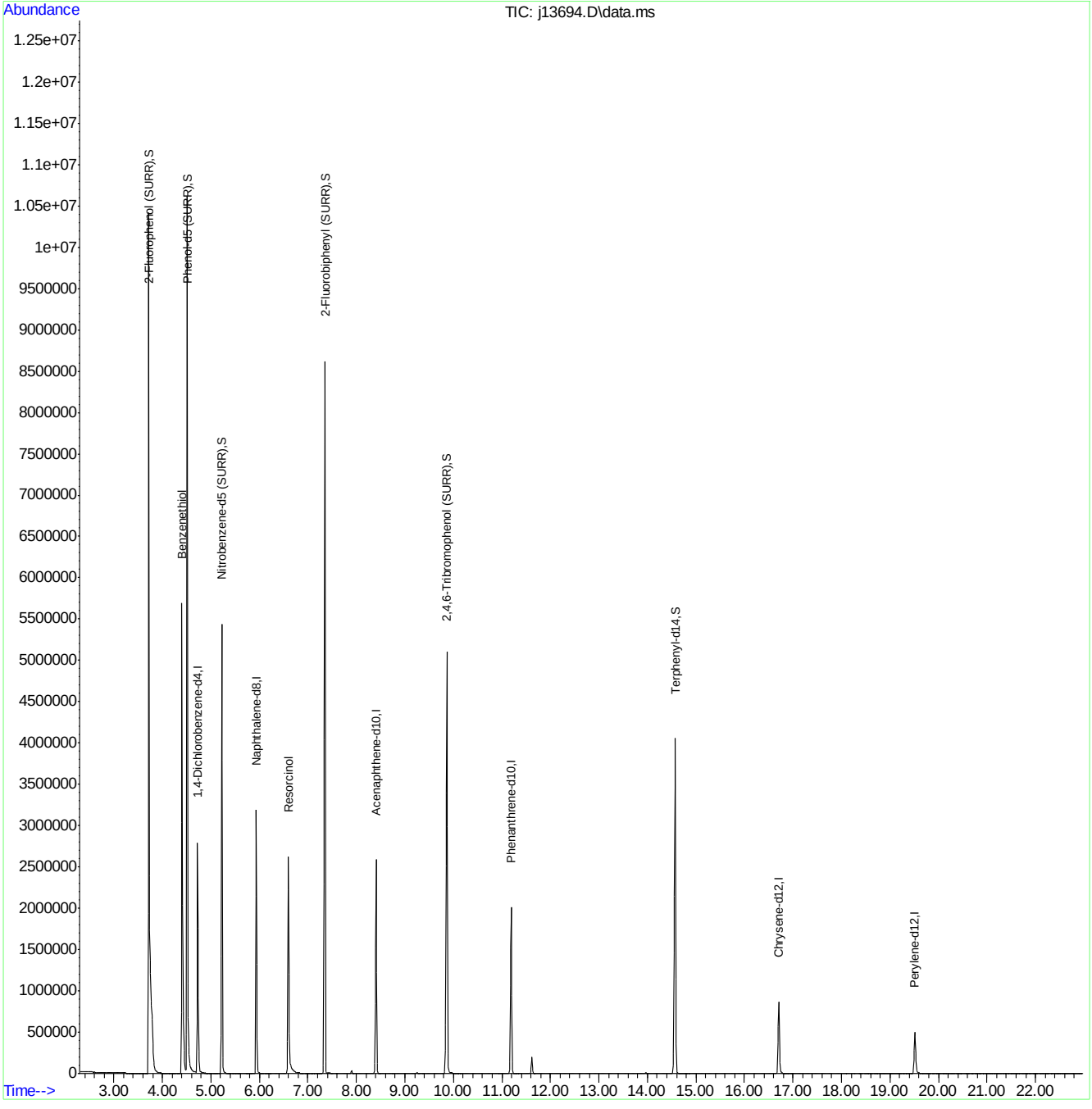
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	453816	40.00	ug/ml	0.00
14) Naphthalene-d8	5.935	136	1569063	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.406	164	846788	40.00	ug/ml	0.27
27) Phenanthrene-d10	11.192	188	1245971	40.00	ug/ml	0.45
33) 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

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



ACCUTEST Laboratories T39169

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

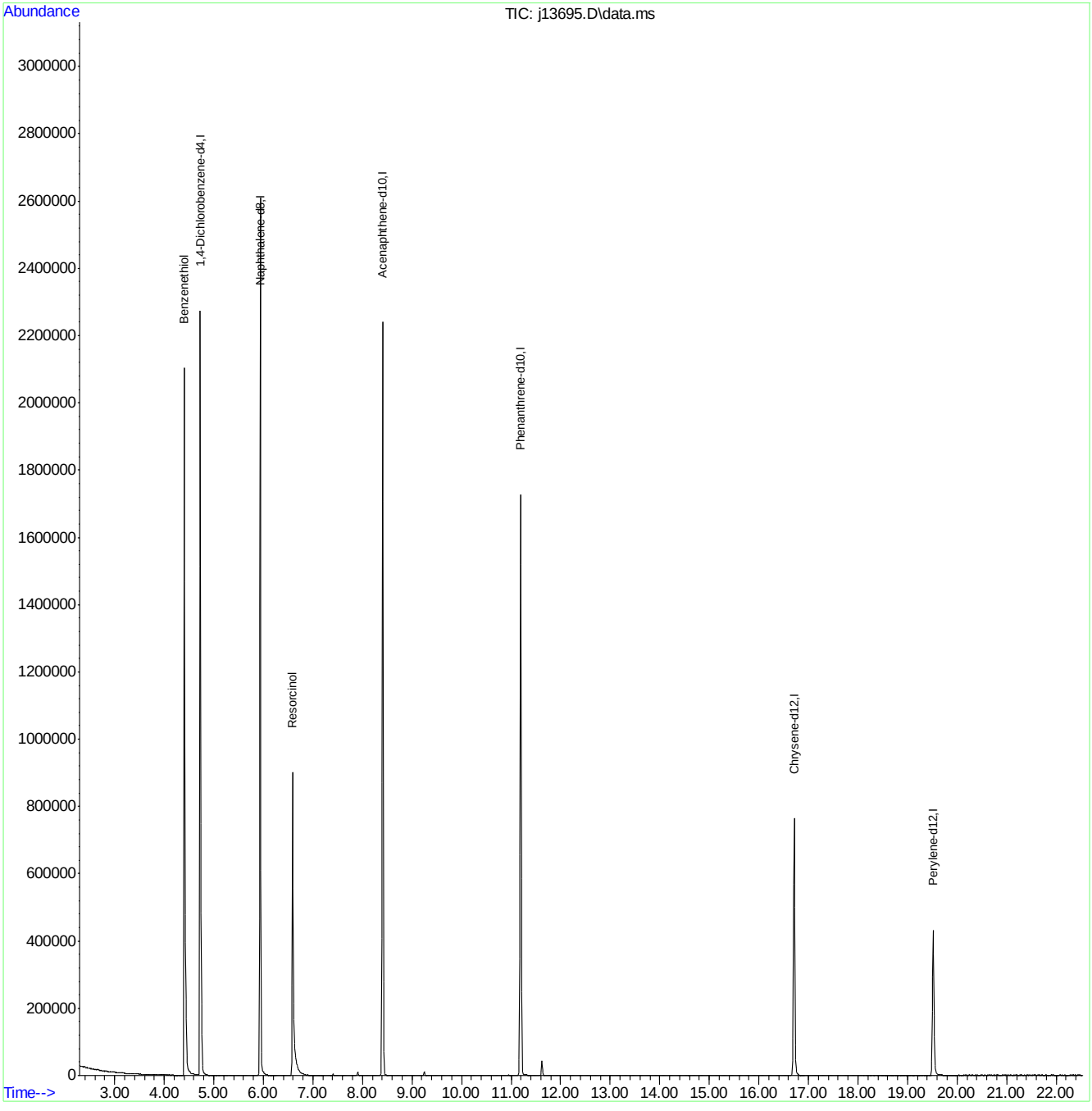
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.726	152	386125	40.00	ug/ml	0.00
14) Naphthalene-d8	5.940	136	1353260	40.00	ug/ml	0.00
21) Acenaphthene-d10	8.411	164	734185	40.00	ug/ml	0.00
27) Phenanthrene-d10	11.192	188	1056391	40.00	ug/ml	0.00
33) 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
10/09/09 17:03

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13703.D
Acq On : 8 Oct 2009 6:44 pm
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej630,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 09 08:58:07 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.737	152	714939	40.00	ug/ml	0.01
20) Naphthalene-d8	5.956	136	2313081	40.00	ug/ml	0.01
36) Acenaphthene-d10	8.427	164	1190901	40.00	ug/ml	0.01
57) Phenanthrene-d10	11.208	188	1538062	40.00	ug/ml	0.00
71) Chrysene-d12	16.739	240	1103444	40.00	ug/ml	0.00
80) Perylene-d12	19.531	264	645836	40.00	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	3.720	112	2382258	106.18	ug/ml	0.04
Spiked Amount 100.000	Range 10 - 66		Recovery = 106.18%#			
5) Phenol-d5 (SURR)	4.517	99	3172982	113.16	ug/ml	0.02
Spiked Amount 100.000	Range 10 - 53		Recovery = 113.16%#			
21) Nitrobenzene-d5 (SURR)	5.239	82	1306278	53.85	ug/ml	-0.06
Spiked Amount 50.000	Range 29 - 115		Recovery = 107.70%			
40) 2-Fluorobiphenyl (SURR)	7.357	172	2406298	49.61	ug/ml	-0.19
Spiked Amount 50.000	Range 34 - 113		Recovery = 99.22%			
62) 2,4,6-Tribromophenol (...	9.882	330	538631	104.08	ug/ml	-0.08
Spiked Amount 100.000	Range 32 - 128		Recovery = 104.08%			
74) Terphenyl-d14	14.573	244	1227800	46.60	ug/ml	-0.02
Spiked Amount 50.000	Range 12 - 145		Recovery = 93.20%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.485	74	609496	50.72	ug/ml	99
3) Pyridine	2.458	79	1117133m	52.68	ug/ml	
6) Phenol	4.528	94	1729822	57.00	ug/ml	92
7) Aniline	4.491	93	1844685	54.76	ug/ml	98
8) bis(2-Chloroethyl)ether	4.533	93	1274876	42.86	ug/ml	89
9) 2-Chlorophenol	4.592	128	1165901	49.53	ug/ml	99
10) 1,3-Dichlorobenzene	4.688	146	1314890	49.31	ug/ml	100
11) 1,4-Dichlorobenzene	4.753	146	1457827	50.96	ug/ml	99
12) Benzyl Alcohol	4.892	108	804779	49.07	ug/ml	100
13) 1,2-Dichlorobenzene	4.881	146	1351074	50.34	ug/ml	99
14) 2-Methylphenol	4.999	108	1048801	49.30	ug/ml	90
15) bis(2-chloroisopropyl)...	4.977	45	1684926	44.73	ug/ml#	70
16) 4-Methylphenol	5.143	108	1071768	47.63	ug/ml	99
17) m+p-Cresols	5.143	108	1071768	47.63	ug/ml	99
18) n-Nitroso-di-n-propyla...	5.122	70	907789	44.47	ug/ml	100
19) Hexachloroethane	5.175	117	526166	50.41	ug/ml	99
22) Nitrobenzene	5.261	77	1280879	53.76	ug/ml	99
23) Isophorone	5.491	82	2049466	46.85	ug/ml	99
24) 2-Nitrophenol	5.560	139	578125	52.78	ug/ml	99
25) 2,4-Dimethylphenol	5.635	122	955497	52.75	ug/ml	98
26) bis(2-Chloroethoxy)met...	5.699	93	1235612	51.25	ug/ml	100
27) Benzoic Acid	5.870	105	680304m	75.62	ug/ml	
28) 2,4-Dichlorophenol	5.838	162	867890	54.47	ug/ml	99
29) 1,2,4-Trichlorobenzene	5.892	180	998217	52.06	ug/ml	100
30) Naphthalene	5.977	128	3316567	52.64	ug/ml	100
31) 4-Chloroaniline	6.047	127	1211967	52.73	ug/ml	99
32) Hexachlorobutadiene	6.122	225	667058	55.42	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13703.D
Acq On : 8 Oct 2009 6:44 pm
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej630,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 09 08:58:07 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 4-Chloro-3-methylphenol	6.683	107	892905	49.62	ug/ml	99
34) 2-Methylnaphthalene	6.823	142	1913383	49.71	ug/ml	99
35) 1-Methylnaphthalene	6.962	142	1994383	49.48	ug/ml	99
37) Hexachlorocyclopentadiene	7.053	237	339911	61.76	ug/ml	97
38) 2,4,6-Trichlorophenol	7.256	196	516987	52.02	ug/ml	100
39) 2,4,5-Trichlorophenol	7.331	196	545559	46.11	ug/ml	99
41) 2-Chloronaphthalene	7.529	162	1726361	51.88	ug/ml	100
42) 2-Nitroaniline	7.716	65	573113	51.23	ug/ml	99
43) Dimethylphthalate	8.047	163	1807531	45.20	ug/ml	100
44) Acenaphthylene	8.186	152	2751846	48.79	ug/ml	100
45) 2,6-Dinitrotoluene	8.128	165	427424	45.43	ug/ml#	83
46) 3-Nitroaniline	8.422	138	446211	50.80	ug/ml	100
47) Acenaphthene	8.491	154	1629904	49.19	ug/ml	100
48) 2,4-Dinitrophenol	8.604	184	171575	54.84	ug/ml	95
49) 4-Nitrophenol	8.866	65	197585	37.06	ug/ml	85
50) Dibenzofuran	8.791	168	2289376	48.37	ug/ml	99
51) 2,4-Dinitrotoluene	8.828	165	489850	43.47	ug/ml	87
52) 2,3,4,6-Tetrachlorophenol	9.058	232	399031	45.27	ug/ml	99
53) Diethylphthalate	9.299	149	1828681	44.07	ug/ml	99
54) Fluorene	9.411	166	1932697	46.85	ug/ml	100
55) 4-Chlorophenyl-phenyle...	9.433	204	953694	44.92	ug/ml	99
56) 4-Nitroaniline	9.545	138	316939	47.05	ug/ml	96
58) 1,2-Diphenylhydrazine	9.738	77	1927377	49.28	ug/ml	99
59) 4,6-Dinitro-2-methylph...	9.604	198	242362	48.68	ug/ml	96
60) Diphenylamine	9.684	169	1488449	51.71	ug/ml	100
61) n-Nitrosodiphenylamine	9.684	169	1488449	51.71	ug/ml	100
63) 4-Bromophenyl-phenylether	10.363	248	496171	51.10	ug/ml	99
64) Hexachlorobenzene	10.481	284	509593	48.17	ug/ml	98
65) Pentachlorophenol	10.914	266	163190	45.52	ug/ml	99
66) Phenanthrene	11.262	178	2222465	48.50	ug/ml	100
67) Anthracene	11.364	178	2153065	48.80	ug/ml	100
68) Carbazole	11.738	167	1665517	46.88	ug/ml	100
69) Di-n-butylphthalate	12.556	149	2449180	44.51	ug/ml	99
70) Fluoranthene	13.701	202	1797097	43.26	ug/ml	99
72) Benzidine	14.049	184	625864	57.12	ug/ml#	100
73) Pyrene	14.161	202	1780164	45.79	ug/ml	100
75) Butylbenzylphthalate	15.675	149	781060	45.11	ug/ml	100
76) Benzo(a)anthracene	16.712	228	1507505	48.56	ug/ml	99
77) 3,3'-Dichlorobenzidine	16.718	252	419608	55.15	ug/ml	99
78) Chrysene	16.792	228	1288847	49.26	ug/ml	99
79) bis(2-Ethylhexyl)phtha...	16.953	149	1029335	44.24	ug/ml	99
81) Di-n-octylphthalate	18.242	149	1546996	50.01	ug/ml#	97
82) Benzo(b)fluoranthene	18.846	252	1073834	50.31	ug/ml	100
83) Benzo(k)fluoranthene	18.900	252	1054151	54.07	ug/ml	99
84) Benzo(a)pyrene	19.429	252	928243	50.94	ug/ml#	10
85) Indeno(1,2,3-cd)pyrene	21.633	276	817740	53.22	ug/ml	97
86) Dibenz(a,h)anthracene	21.660	278	681865	53.47	ug/ml	97
87) Benzo(g,h,i)perylene	22.221	276	613001	52.81	ug/ml	99

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13703.D
Acq On    :  8 Oct 2009   6:44 pm
Operator  : sheilac
Sample    : cc615-50
Misc      : op12949,Ej630,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Oct 09 08:58:07 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration

        Compound                  R.T. QIon  Response  Conc Units Dev(Min)
 ---------------------------------------------------------------------------
 (#) = qualifier out of range (m) = manual integration (+) = signals summed
```

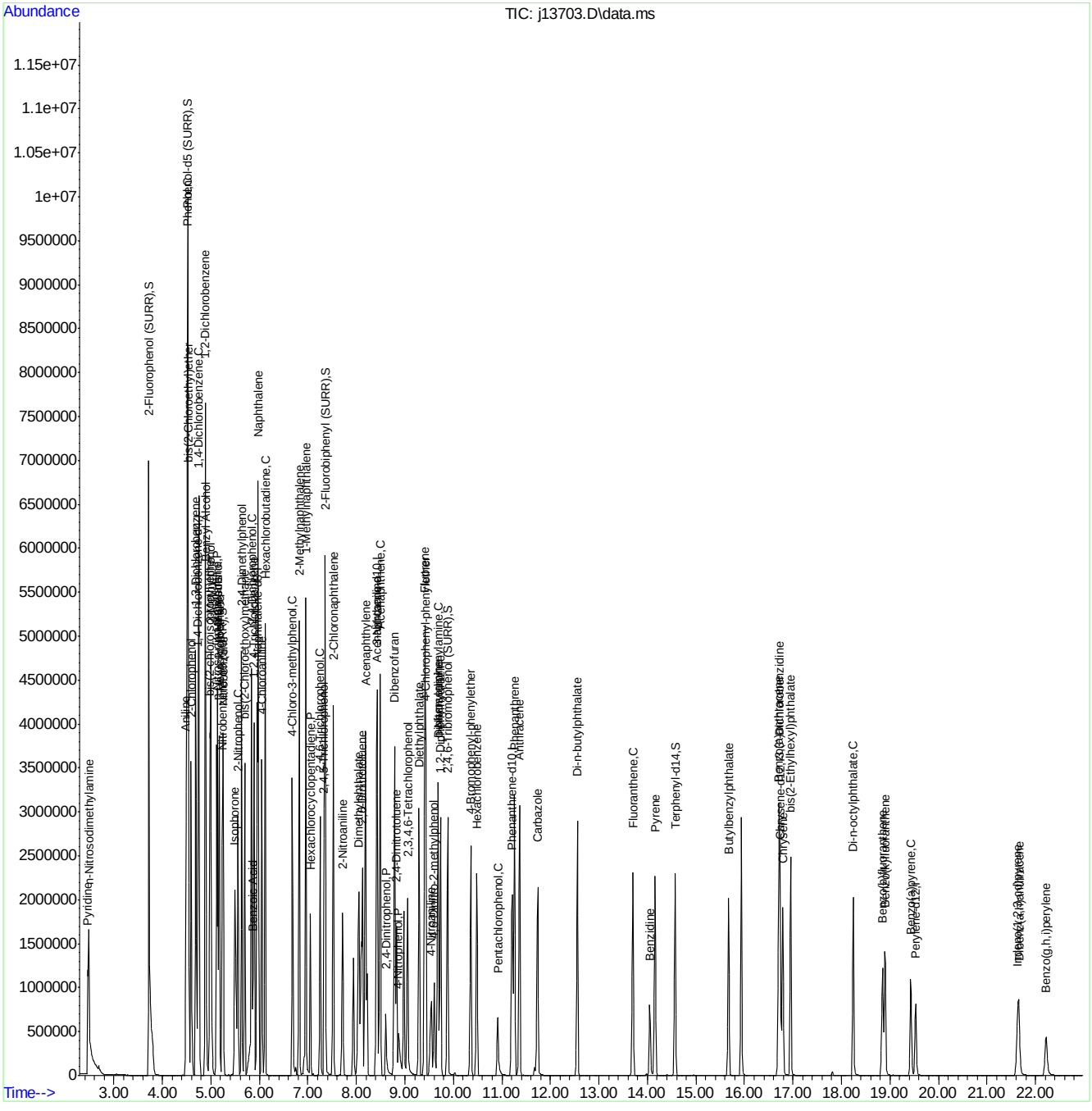
8.6.23

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13703.D
Acq On : 8 Oct 2009 6:44 pm
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej630,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 09 08:58:07 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration



ACCUTEST Laboratories T39169

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13703.D
Acq On    :  8 Oct 2009   6:44 pm
Operator  : sheilac
Sample    : cc615-50
Misc      : op12949,Ej630,1000,,,1,1,water
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Oct 09 08:58:07 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title  :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration
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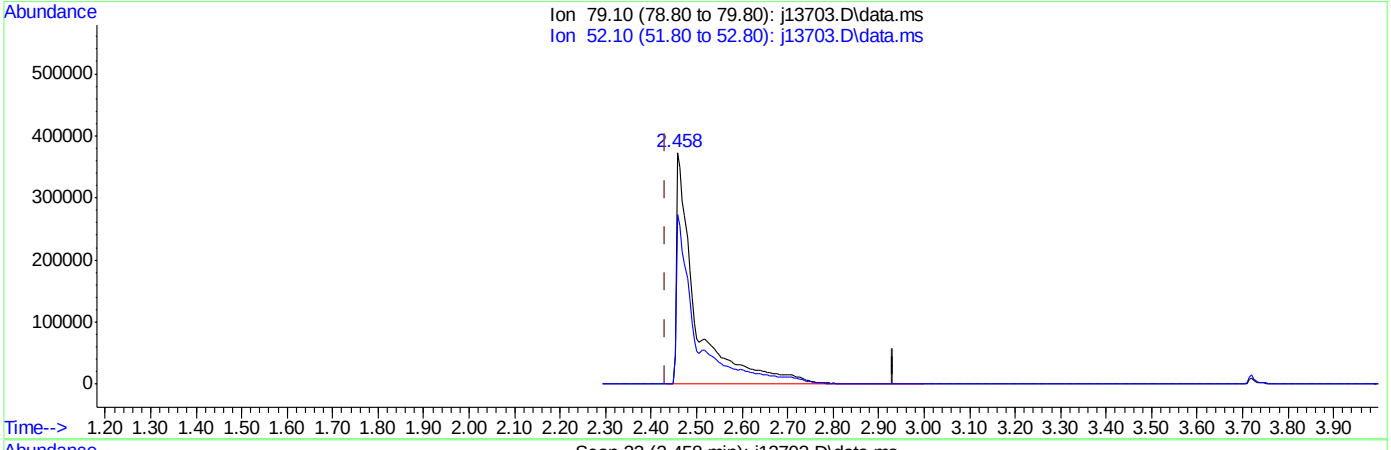
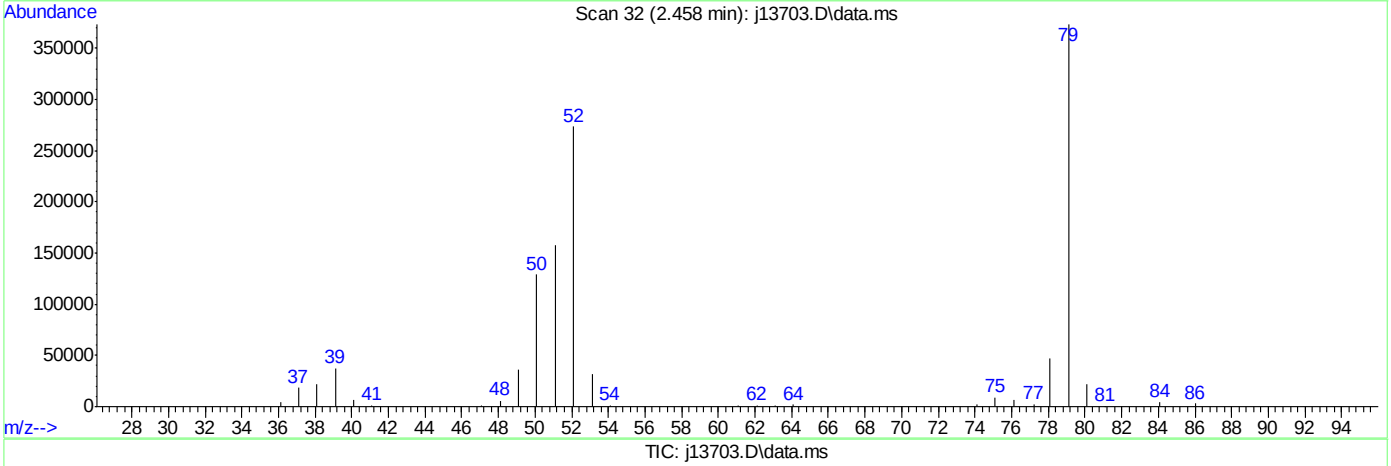




TIC: j13703.D\data.ms

(3) Pyridine

2.458min (+0.026) 52.68ug/ml m

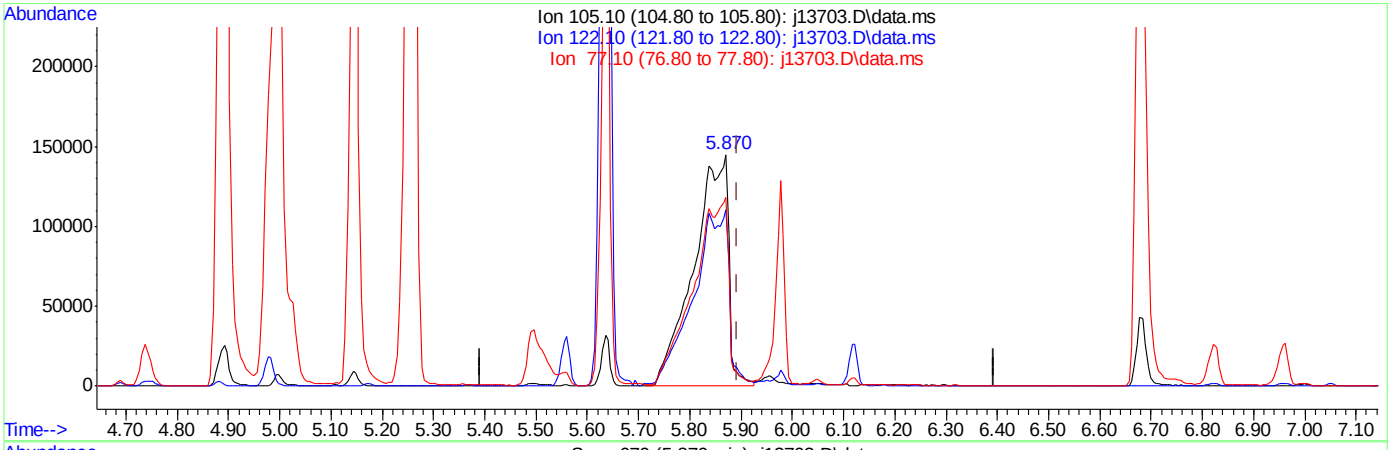
response 1117133

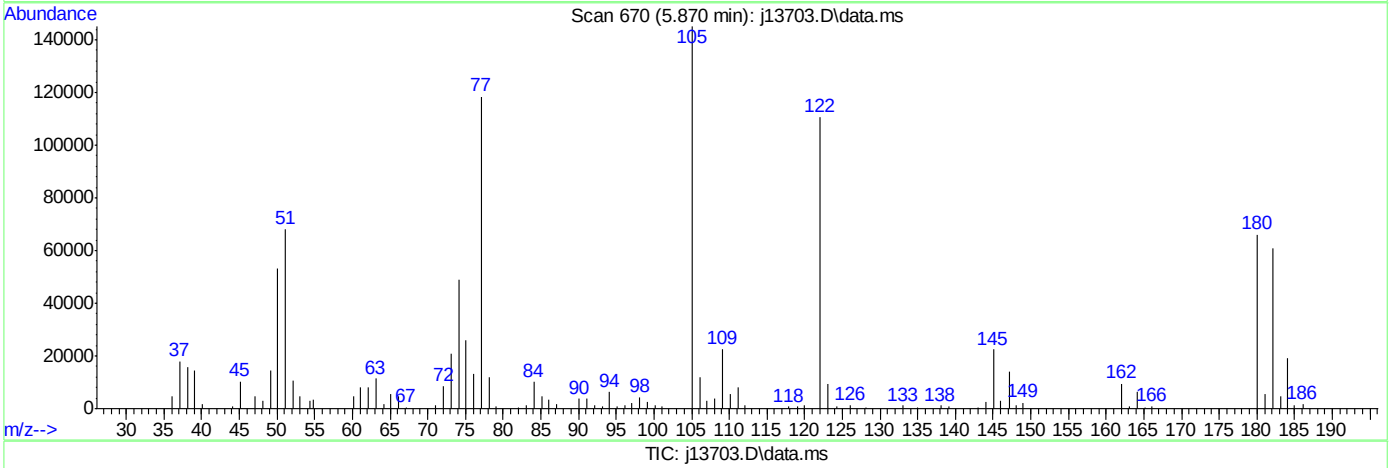
Ion	Exp%	Act%
79.10	100	100
52.10	72.60	44.89#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13703.D
Acq On : 8 Oct 2009 6:44 pm
Operator : sheilac
Sample : cc615-50
Misc : op12949,Ej630,1000,,,1,1,water
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 09 08:58:07 2009
Quant Method : C:\msdchem\1\METHODS\ej615mg.m
Quant Title :
QLast Update : Thu Oct 08 10:59:06 2009
Response via : Initial Calibration





TIC: j13703.D\data.ms

(27) Benzoic Acid

5.870min (-0.023) 75.62ug/ml m

response 680304

Ion	Exp%	Act%
105.10	100	100
122.10	75.20	51.55#
77.10	81.90	54.67#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13704.D
Acq On : 8 Oct 2009 7:21 pm
Operator : sheilac
Sample : cc629-50,(Bzth+Resor)
Misc : op12949,Ej630,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 09 15:06:07 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	4.731	152	577247	40.00	ug/ml	0.00
14) Naphthalene-d8	5.945	136	2025013	40.00	ug/ml	0.01
21) Acenaphthene-d10	8.416	164	1082506	40.00	ug/ml	0.01
27) Phenanthrene-d10	11.203	188	1585750	40.00	ug/ml	0.01
33) Chrysene-d12	16.717	240	837980	40.00	ug/ml	0.01
40) Perylene-d12	19.525	264	511871	40.00	ug/ml	0.01
System Monitoring Compounds						
3) 2-Fluorophenol (SURR)	3.720	112	2208781	101.92	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 66		Recovery = 101.92%#			
5) Phenol-d5 (SURR)	4.506	99	2836909	103.41	ug/ml	0.00
Spiked Amount 100.000	Range 10 - 53		Recovery = 103.41%#			
15) Nitrobenzene-d5 (SURR)	5.228	82	1256765	51.09	ug/ml	0.00
Spiked Amount 50.000	Range 29 - 115		Recovery = 102.18%			
22) 2-Fluorobiphenyl (SURR)	7.352	172	2264174	52.30	ug/ml	0.00
Spiked Amount 50.000	Range 34 - 113		Recovery = 104.60%			
28) 2,4,6-Tribromophenol (...	9.866	330	538829	99.06	ug/ml	0.00
Spiked Amount 100.000	Range 32 - 128		Recovery = 99.06%			
35) Terphenyl-d14	14.573	244	1361068	54.81	ug/ml	0.00
Spiked Amount 50.000	Range 12 - 145		Recovery = 109.62%			
Target Compounds						Qvalue
4) Benzenethiol	4.410	110	1137480	52.57	ug/ml	99
19) Resorcinol	6.592	110	714156	47.90	ug/ml	99

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

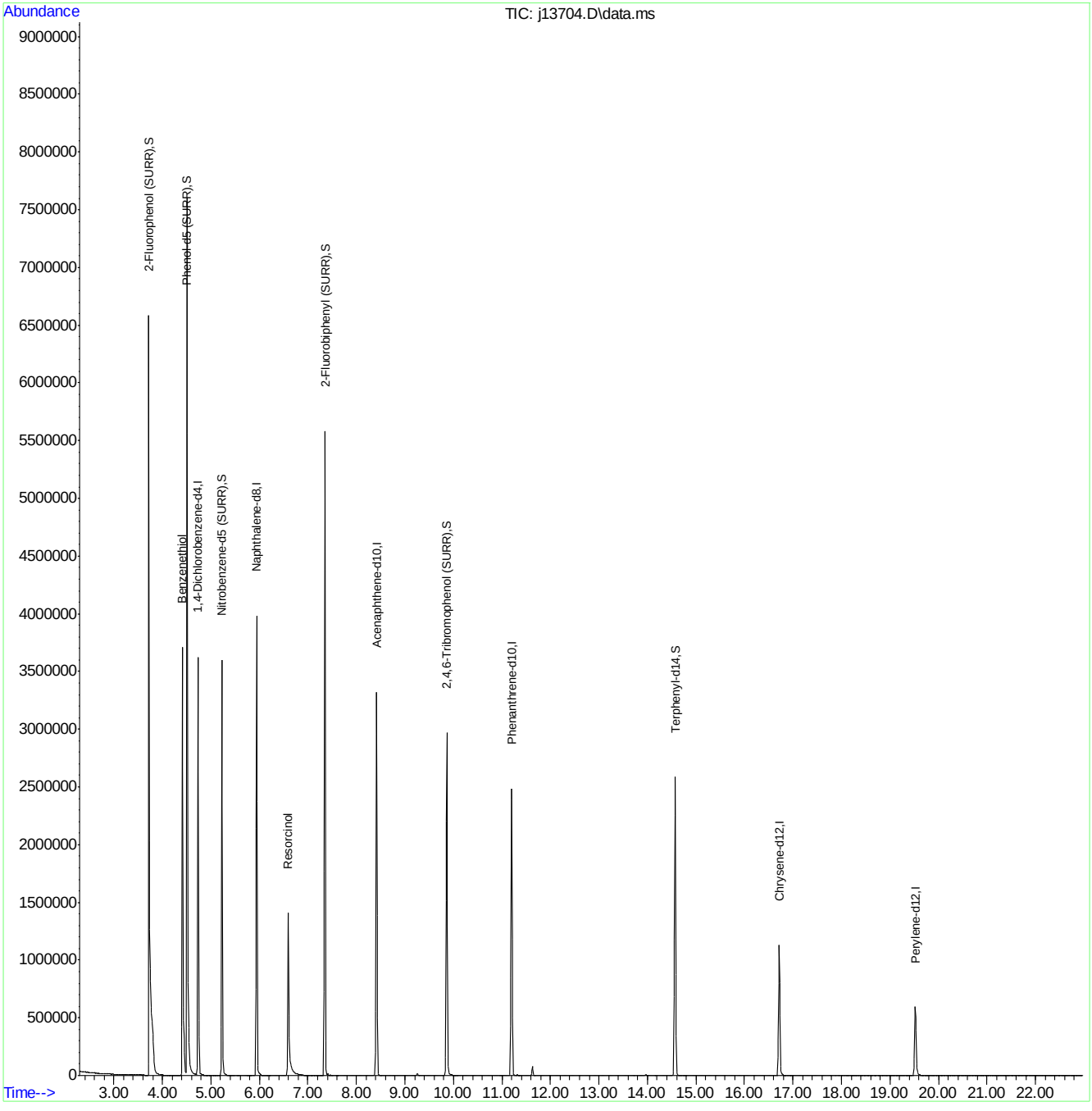
8.6.24

8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\ej630\
Data File : j13704.D
Acq On : 8 Oct 2009 7:21 pm
Operator : sheilac
Sample : cc629-50,(Bzth+Resor)
Misc : op12949,Ej630,1000,,,1,1,water
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 09 15:06:07 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

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1917

Date: 10/20/09 P.1 of 2

Analyst Signature: Sheila Cheng

Standard Data

Ref #	Description
1	ms799
2	ms840-5
3	-4
4	-1
5	-2
6	-6
7	-7

Standard Data

Ref #	Description
8	ms840-5
9	ms794
10	IS-MS826A

Columns: RTX5 ½ ℓ

SW-846/EPA Method: 8270 SIM PAH

Initial Cal. Method: H102095P.m

Calibration Date: 10/20/09

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	H35482	1	dfopp	dfopp				X	m/e 442 = 39.5 < 40%	Sc
1	83	1	↓	↓				✓	Change Amusain from 567 10:23AM to 568	
2	84	2	cc1916-25	HS1MBSPP				X		
3	85	3	ic1917-1					✓		
4	86	4	-91					✓		
5	87	5	-92					✓		
6	88	6	-5					✓		
7	89	7	↓ -10					✓		
8	90	8	icc1917-25					✓		
9	91	9	icv1917-25					✓		
10	92	10	op13269-mb		W	13269	1	✓	use AB8270SL, extract 5ml x10	
	93	11	-bs				1	✓		
	94	12	↓ -bsd				1	✓		
	95	13	T39169-1				1	✓		
	96	14	-2				1	✓		
	97	15	-3				1	✓		
	98	16	-4				1	✓		
	99	17	-5				1	✓		
	500	18	↓ -6				1	✓		
↓	501	19	T39187-1	↓	↓	↓	1	✓	IS6d, 5uok	✓

MTX = Matrix Designate W for water, S for soil, O for oil.

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EH1917

Date: 10/20/2009 P.2 of 2

Analyst Signature: Sheila Cheng

Standard Data	
Ref #	Description
10	IS-MS826A

Standard Data	
Ref #	Description

Columns: see page 83

SW-846/EPA Method

Initial Cal. Method

Calibration Date:

Injection Volume:

Solvent ID #: OP091012B11

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
10	H35502	20	T39187-2	HSIMBSPP	W	13269	1	✓	ok	SC
	3	21	5				1	✓	ok	
	4	22	T39314-1				1	✓	IS↓, SU OK	
	5	23	-2				1	✓	OK	
	6	24	-3				1	✓	IS↓, SU OK need RR X10 acenaphthene↑ 18.45	
	7	25	-4				1	✓	IS↓ SU OK acenaphthene 8.85	
	8	26	-6				1	✓	IS↓ SU OK, 10:03pm 32:57 acenaphthene↑ need RR X10	
	9	27	-5, 40X				40	X	outside time frame naph 29.09 need RR X10, X400	
	570	28	T39187-3, 80X				80		naph 2.66 acenaphth 2.28 fluorene 0.18 need RR X10 X400 phenanthrene 0.60	
	H35571	29	-4, 80X				80		naph 39.48.	

SC 10/20/2009

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

8.7.3 8

ACCUTEST

GC/MS SEMIVOLATILE ANALYSIS LOG

Batch ID: EJ630

Date: 10/08/2009(a)

Analyst Signature: Sheila Chang

Standard Data

Ref #	Description
1	MS799
2	MS784-4C
3	MS833-5
4	IS-MS835

Standard Data

Ref #	Description

Columns: RX5ms
SW-846/EPA Method 8270C/625/Bathut+Resorcinol
Initial Cal. Method EJ615MS/EJ629BENTROS
Calibration Date: 9/23/2009 / 10/08/2009
Injection Volume: 1 µl
Solvent ID #: OP090918A17
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	J13702	1	dfopp	dfopp				✓	6:30pm	
2	703	2	CC615-50	8270JRONS				✓		
3	704	3	CC629-50 (Bat+Res)		W	13205	1	✓		
4	705	4	OP13205-mb					✓		
	6	5	T39169-1					✓	need TIC for Resorcinol	
	7	6	-2					✓	copy to A for Bathut *	
	8	7	-3					✓		
	9	8	-4					✓		
	710	9	-5					✓		
	11	10	-6					✓		
	12	11	T39314-2					✓		
	13	12	OP13205-ms					✓	T39314-2ms	
	14	13	-msd					✓		
	15	14	T39314-1					✓		
	16	15	-3					✓		
	17	16	-4					✓		
	18	17	-6					✓		
	19	18	T39817-1					✓		
	20	19	-2					✓		
	21	20	-5				40	✓		
	22	21	T39314-5, 40X				40	✓	Naphth.0.81, lit, need	
	23	22	T39817-3, 40X				40	✓	lit	
	J13724	23	-4, 40X				40	✓	5:27 AM creat graph	DNR 2R X10, Nbq

MTX = Matrix Designate W for water, S for soil, O for oil.

Form: MS014

8.7.4 8

BNA LIQUID SAMPLE PREP REPORT

Date: 10/7/09 Method: EPA 3510C Batch#: OP13205 / OP13269 / 8270SLS/m 10/19/09 SC

Analyst: [illegible]

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
MB		1000		<2>12	1.0	—	1.0	
BS		↓				0.5		8270
T39169-1	4	↓				—		
2	1	980						
3	1	970						
4	2	985						
5	1	1000						
6	1	↓						
T39187-1	2	1000						
2	2							
3	1							
4	2							
5	1	↓						
T39314-1	2	1000						
2	↓	↓						
3	1							
4	2							
5	1							
6	1	↓				↓		
BS		1000				0.5		Resocinal+Bzthiol
BSD		↓		↓	↓	0.5		↓
BSD		↓				0.5		8270
MS	4	500		<2>12	1.0	0.5		T39314-2 (8270)
MSD	↓	↓		↓	↓	↓	↓	↓
T39305-1	2	1000		<2>12	1.0	—	1.0	

Surrogate ID: E22100 Conc: 100/50 ppm Exp. Date: 3/18/10 Bath Temp #1.: 42 °C

Spike ID: MS0908 27A2 MS5832 Conc: 100 ppm 100 ppm Exp. Date: 2/2010 4/8/2010 Bath Temp.#2:

Bath Temp.#3:

Methylene Chloride ID #: OP090918A28 Dried Sodium Sulfate ID#: 23-OP-30-3

1:1 Sulfuric Acid ID # 23-OP-31-12 10 N Sodium Hydroxide # OP090901A

Comments:

Relinquished By: Amy Low Date: 10/08/09

Accepted By: Sheila Cheng Date: 10/8/2009

P.72

Form: OP006, Rev. 02/06/06, QAO

BNA LIQUID SAMPLE PREP REPORT

Date: 10/7/09 Method: EPA 3510C Batch#: OP13205 / OP13269 / 8270SLS/m

Analyst: [illegible] 10/7/09 SC

Sample ID	Bottle Number	Amount Extracted (ml)	Initial pH	Adjusted pH	Surrogate Amount	Spike Amount	Final Volume (ml)	Comments
MB		1000		<2>12	1.0	—	1.0	
BS		↓				0.5		8270
T39169-1	4	↓				—		
2	1	980						
3	1	970						
4	2	985						
5	1	1000						
6	1	↓						
T39187-1	2	1000						
2	2							
3	1							
4	2							
5	1	↓						
T39314-1	2	1000						
2	↓	↓						
3	1							
4	2							
5	1							
6	1	↓				↓		
BS		1000				0.5		Resocinal+Bzthiol
BSD		↓		↓	↓	0.5		↓
BSD		↓				0.5		8270
MS	4	500		<2>12	1.0	0.5		T39314-2 (8270)
MSD	↓	↓		↓	↓	↓	↓	↓

T39305-1 2 1000 <2>12 1.0 — 1.0

Surrogate ID: E22100 Conc: 100/50 ppm Exp. Date: 3/18/10 Bath Temp #1.: 42 °C

MS090827A2 100 ppm 2/2010

Spike ID: MS5832 Conc: 100 ppm Exp. Date: 4/8/2010 Bath Temp.#2:

Bath Temp.#3:

Methylene Chloride ID #: OP090918A28 Dried Sodium Sulfate ID#: 23-OP-30-3

1:1 Sulfuric Acid ID # 23-OP-31-12 10 N Sodium Hydroxide # OP090901A

Comments:

Relinquished By: Amy Low Date: 10/08/09

Accepted By: Sheila Cheng Date: 10/8/2009

P.72

Form: OP006, Rev. 02/06/06, QAO

8.8.2

8

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: T39169
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	GP6985/GN18264	0.010	0.0	mg/l	0.2	0.197	98.5	90-110%

Associated Samples:
Batch GP6985: T39169-1, T39169-2, T39169-3, T39169-5, T39169-6
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T39169
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP6985/GN18264	T38984-1	mg/l	0.0040 U	0.0	0.0	0-20%

Associated Samples:
Batch GP6985: T39169-1, T39169-2, T39169-3, T39169-5, T39169-6
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T39169
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	GP6985/GN18264	T38984-1	mg/l	0.0040 U	0.2	0.18	90.0	90-110%

Associated Samples:
Batch GP6985: T39169-1, T39169-2, T39169-3, T39169-5, T39169-6
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: T39169
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 100809W1CN.TXT Date Analyzed: 10/08/09 Methods: EPA 335.4
Analyst: CV Run ID: GN18264
Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:37	GN18264-ICV1	1		
12:37	GN18264-ICB1	1		
12:39	GP6985-B1	1		
12:40	GP6985-MB1	1		
12:42	GP6985-S1	1		
12:42	GP6985-D1	1		
12:44	T38984-1	1		(sample used for QC only; not part of login T39169)
12:45	ZZZZZZ	1		
12:47	ZZZZZZ	1		
12:47	T39169-1	1		
12:49	T39169-2	1		
12:50	T39169-3	1		
12:52	GN18264-CCV1	1		
12:52	GN18264-CCB1	1		
12:54	T39169-5	1		
12:55	T39169-6	1		
12:57	ZZZZZZ	1		
12:57	ZZZZZZ	1		
12:59	ZZZZZZ	1		
13:00	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:04	ZZZZZZ	1		
13:05	GN18264-CCV2	1		
13:07	GN18264-CCB2	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: T39169
Account: ERMUTSLC - ERM Salt Lake City
Project: Vertellus-Provo

File ID: 100809W1CN.TXT Date Analyzed: 10/08/09 Methods: EPA 335.4
Run ID: GN18264 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN18264-ICV1	Cyanide	0.20	0.010	0.0040	.2	100.0	90-110
GN18264-ICB1	Cyanide	0.0040 U	0.010	0.0040			
GN18264-CCV1	Cyanide	0.29	0.010	0.0040	.3	96.7	90-110
GN18264-CCB1	Cyanide	-0.010	0.010	0.0040			
GN18264-CCV2	Cyanide	0.29	0.010	0.0040	.3	96.7	90-110
GN18264-CCB2	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	0.0068	0.00		12:32:29 PM
R-4	RBL	0.0000	0.0067	0.00		12:32:54 PM
R-4	RBL	0.0000	0.0061	0.00		12:34:59 PM
R-4	RBL	0.0000	0.0068	0.00		12:35:23 PM
1	ICV	0.1986	0.2336	0.00		12:37:28 PM
2	ICB	0.0024	0.0030	0.00		12:37:53 PM
3	BSP GP6986-B1/GP6986-B1	0.1967	0.2314	0.00		12:39:58 PM
4	MB GP6986-MB1/GP6986-MB1	0.0016	0.0021	0.00	><	12:40:23 PM
5	T38984-1S1 GP6985-S1	0.1767	0.2079	0.00		12:42:27 PM
6	T38984-1D1 GP6985-D1	0.0025	0.0031	0.00		12:42:52 PM
7	T38984-1	-0.0001	0.0000	0.00	><,LL	12:44:57 PM
8	T39101-1	0.0085	0.0102	0.00		12:45:22 PM
9	T38417-1	-0.0009	-0.0009	0.00	INV,><,LL	12:47:27 PM
10	T39169-1	0.0030	0.0037	0.00		12:47:52 PM
11	T39169-2	0.0016	0.0021	0.00	><	12:49:56 PM
12	T39169-3	0.0033	0.0041	0.00		12:50:21 PM
13	CCV	0.2942	0.3460	0.00		12:52:26 PM
14	CCB	-0.0102	-0.0119	0.00	INV,><,LL	12:52:51 PM
15	T39169-5	0.0030	0.0037	0.00		12:54:55 PM
16	T39169-6	0.0202	0.0240	0.00		12:55:20 PM
17	T39187-1S1 GP6986-S1	0.1779	0.2093	0.00		12:57:25 PM
18	T39187-1D1 GP6986-D1	0.0031	0.0039	0.00		12:57:50 PM
19	T39187-1	0.0034	0.0042	0.00		12:59:55 PM
20	T39187-2	0.0027	0.0033	0.00		1:00:20 PM
21	T39187-3	0.0344	0.0406	0.00		1:02:25 PM
22	T39187-4	0.2881	0.3388	0.00		1:02:50 PM
23	T39187-5	0.0087	0.0104	0.00		1:04:55 PM
24	CCV1	0.2910	0.3422	0.00		1:05:20 PM
25	CCB1	-0.0004	-0.0004	0.00	INV,><,LL	1:07:25 PM

Report Date :10/08/2009 **Run Date :10/08/2009** **Operator : WESTCO** **Plan # :20091008001**

Plan Description : 100809w1cn

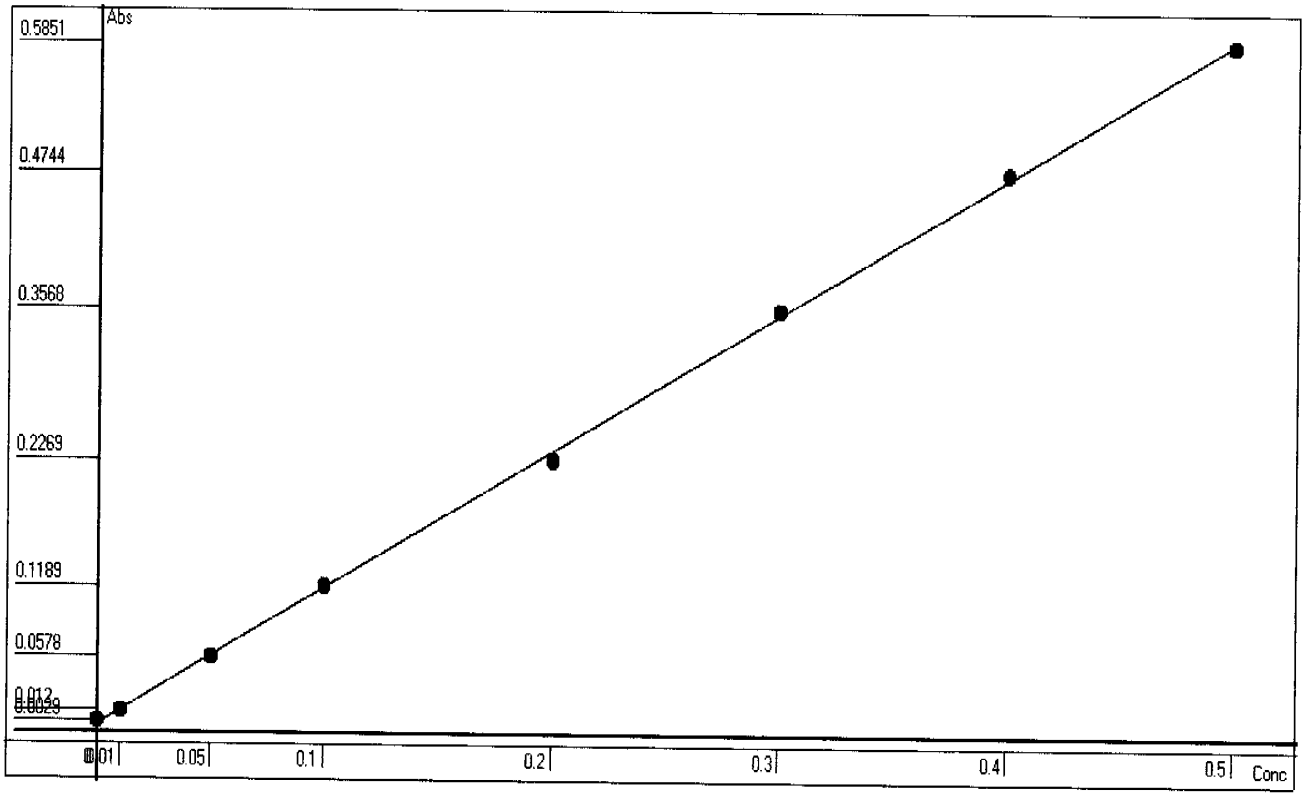
W 10/8/09

10.1.1 10

Calibrant Report - WCYA -

Calib Lot #:090408 Exp Date:9/30/2010 User:Westco Scientific

Plan # : 20091008001 Description : [100809w1cn] 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 10/8/2009 Run Date 6/8/2009

CW 10/8/09

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	T38984-1S1	Rack A1 - 5	1/1	X
6	T38984-1D1	Rack A1 - 6	1/1	X
7	T38984-1	Rack A1 - 7	1/1	X
8	T39101-1	Rack A1 - 8	1/1	X
9	T38417-1	Rack A1 - 9	1/1	X
10	T39169-1	Rack A1 - 10	1/1	X
11	T39169-2	Rack A1 - 11	1/1	X
12	T39169-3	Rack A1 - 12	1/1	X
13	CCV	Rack A1 - 13	1/1	X
14	CCB	Rack A1 - 14	1/1	X
15	T39169-5	Rack A1 - 15	1/1	X
16	T39169-6	Rack A1 - 16	1/1	X
17	T39187-1S1	Rack B1 - 1	1/1	X
18	T39187-1D1	Rack B1 - 2	1/1	X
19	T39187-1	Rack B1 - 3	1/1	X
20	T39187-2	Rack B1 - 4	1/1	X
21	T39187-3	Rack B1 - 5	1/1	X
22	T39187-4	Rack B1 - 6	1/1	X
23	T39187-5	Rack B1 - 7	1/1	X
24	CCV1	Rack B1 - 8	1/1	X
25	CCB1	Rack B1 - 9	1/1	X

Report Date :10/08/2009 **Operator : WESTCO** **Plan # :20091008001**

Plan Description : 100809w1cn

CW 10/8/09

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ACCUTEST

Westco Analyzer Run Log

Date: 10/8/09
Time: 1222
Analyst: CV

Sources	
Primary Standard:	GN0304058 E
Secondary Standard:	GN0701144 A

Reagent	Reagent ID
Lod. Rhen. Monobromide	217C-65-3
Cover Reagent	217C-62-1
Carbonate T	237C-46-2

CN

Lab Number	Bottle Number	pH Initial	pH Final	Comments	
ICV	237C-96-3				
ICB					
DSP				ces, refer to distillation log	
MD					
T38984-1S1	1			spl, refer to distillation log	
-1D1	1				
-1	1				
T39101-1	5				
T38417-1	4				
T39169-1	5				
-2	3				
-3	3				
CCV	237C-96-1				
CCB					
T39169-5	3				
-6	3				
T39187-1S1	5			spl, refer to distillation log	
-1D1	5				
-1	5				
-2	5				
-3	5				
-4	5				
-5	3				
CCV	237C-96-1				
CCB					
			P25		CV 10/8/09

Form: GN059 Rev. 0 8/28/08 QAO

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ACCUTEST

CYANIDE DIGESTION LOG

DATE	ANALYST	MATRIX/ METHOD	SAMPLE ID	SAMPLE WT/ VOLUME	REMARKS
10/7/09	CV	35.4/9012	PKL	6 mL 1	
1540			LCS	2	23TC-96-1
			T35984-1S1	3	120 mL 23TC-81-1 pH >12 Neg Posit 1
			-1D1	4	>12 Neg 1
			-1	5	>12 Neg 1
			T39101-1	6	>12 Neg 5
			T35417-1	7	>12 Neg 4
			T39169-1	8	>12 Neg 5
			-2	9	>12 Neg 3
			-3	10	>12 Neg 3
			-5	11	>12 Neg 3
			-6	12	>12 Neg 3
			T39187-1S1	13	120 mL 23TC-81-1 >12 Neg 5
			-1D1	14	>12 Neg 5
			-1	15	>12 Neg 5
			-2	16	>12 Neg 5
			-3	17	>12 Neg 5
			-4	18	>12 Neg 5
			-5	19	>12 Neg 3

Reagents for Distillation

Releasing Agent: 23TC-63-3

0.95N NaOH: 21TC-76-2

Reference Rule GN0906 25A

Reagents for Analysis

CV 10/7/09

P.11

Form: GN035-01
Rev. Date: 7/2/09

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ACCUTEST.

Inorganic Data Review Checklist

Batch ID: GN 18264 & GN 18266

1. **Following samples are reported in this package:**

Sample ID		deliv. Type Comments
T38984-1	T39187-3	
T39101-1	-4	
T38417-1	-5	
T39169-1		
-2		
-3		
-5		
-6		
T39187-1		
-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) CW 10/9/09

2nd Reviewer (Supervisor)(sign/Date)

Form: QA002, 2/08/01